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NATURAL RESOURCES

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Annual Report

### Twenty-Ninth Annual Report

OF THE

# \*Game and Fisheries Department

1935-1936

WITH WHICH IS INCLUDED THE REPORT FOR THE FIVE MONTHS' PERIOD ENDING MARCH 31st, 1935.

PRINTED BY ORDER OF THE LEGISLATIVE ASSEMBLY OF ONTARIO SESSIONAL PAPER No. 9, 1937



#### TORONTO

TO THE HONOURABLE HERBERT ALEXANDER BRUCE, a Colonel in the Royal Army Medical Corps, F.R.C.S. (Eng.)

Lieutenant-Governor of the Province of Ontario.

#### MAY IT PLEASE YOUR HONOUR:

I have the honour to submit herewith for the information of Your Honour and the Legislative Assembly, the Twenty-Ninth Annual Report of the Game and Fisheries Department of this Province, for the year ended March 31st, 1936.

I have the honour to be,

Your Honour's most obedient servant,

H. C. NIXON,

Minister in Charge,

Department of Game and Fisheries

Toronto, 1937.

REF 917:5 125 Abbs

#### TWENTY-NINTH ANNUAL REPORT

OF THE

## Game and Fisheries Department of Ontario

(With which is included the Report covering the five months' period ended March 31st, 1935.)

TO: THE HONOURABLE H. C. NIXON,

Minister in charge,

Department of Game and Fisheries.

SIR:—I have the honour to submit to you this, the Twenty-Ninth Annual Report of the Department of Game and Fisheries, outlining the various departmental activities for the year ended March 31st, 1936.

Comparative tables in this report will generally omit reference to those included in the previous report and which covered the transition five month period existing by reason of the change in the provincial fiscal year, which as noted above is included herein.

#### **FINANCIAL**

The subjoined table shows the total revenue of the Department during the year reported upon, and details the various sources of revenue with the amount derived therefrom in each instance.

REVENUE FOR THE FISCAL YEAR ENDING MARCH 31 1936

Royalty	REVENUE FOR THE FISCAL YEAR ENDING MARCH 31, 193	6.
Licenses—   Trapping	GAME—	
Trapping	Royalty \$110,884.40	
Trapping	Licenses—	
Non-resident Hunting		
Moose	Non-resident Hunting	
Gun       69,635.93         Dog       3,239.35         Fur Dealers       27,186.00         Fur Farmers       6,940.00         Tanners       170.00         Cold Storage       109.00         Hotel & Restaurant       20.00         EISHERIES—         Royalty       \$ 7,600.50         Licenses—       Fishing         Fishing       \$ 89,381.10         Angling       200,641.65         Sales—spawn taking       290,022.75         GENERAL—       297,864.75         Gendes' Licenses       5,630.00         Fines       9,018.40         Sales—Confiscated articles etc.       7,162.45         Rent       3,096.50         Commission       1,952.40         Miscellaneous       362.34	Deer 56,544.05	
Dog		
Fur Dealers 27,186.00 Fur Farmers 6,940.00 Tanners 170.00 Cold Storage 109.00 Hotel & Restaurant 20.00  Fishing \$358,851.88  FISHERIES—  Royalty \$7,600.50  Licenses— Fishing 200,641.65 Sales—spawn taking 200,641.65 Sales—spawn taking 297,864.75  GENERAL—  Guides' Licenses 5,630.00 Fines 9,018.40 Sales—Confiscated articles etc. 7,162.45 Rent 3,096.50 Commission 1,952.40 Miscellaneous 362.34		
Fur Farmers 6,940.00 Tanners 170.00 Cold Storage 109.00 Hotel & Restaurant 20.00  FISHERIES— Royalty \$7,600.50  Licenses— Fishing \$89,381.10 Angling 200,641.65 Sales—spawn taking 290,022.75 Sales—spawn taking 290,022.75  GENERAL— Guides' Licenses 5,630.00 Fines 9,018.40 Sales—Confiscated articles etc. 7,162.45 Rent 3,096.50 Commission 1,952.40 Miscellaneous 362.34		
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Cold Storage Hotel & Restaurant     109.00 20.00       Hotel & Restaurant       247,967.48 358,851.88       FISHERIES—       Royalty     \$ 7,600.50       Licenses—Fishing Angling     \$ 89,381.10 200,641.65       Sales—spawn taking     290,022.75 241.50       GENERAL—Guides' Licenses     5,630.00 50       Fines     9,018.40 50       Sales—Confiscated articles etc.     7,162.45 50       Rent     3,096.50 50       Commission     1,952.40 50       Miscellaneous     362.34		
Hotel & Restaurant       20.00		
## State		
FISHERIES—  Royalty \$7,600.50  Licenses— Fishing \$89,381.10 Angling \$200,641.65 Sales—spawn taking \$290,022.75 CHERAL—  Guides' Licenses \$5,630.00 Fines \$9,018.40 Sales—Confiscated articles etc. \$7,162.45 Rent \$3,096.50 Commission \$1,952.40 Miscellaneous \$358,851.88		
FISHERIES—       Royalty       \$ 7,600.50         Licenses—       Fishing       \$ 89,381.10         Angling       200,641.65       290,022.75         Sales—spawn taking       241.50       297,864.75         GENERAL—       3,018.40       30,018.40         Sales—Confiscated articles etc.       7,162.45       7,162.45         Rent       3,096.50       3,096.50         Commission       1,952.40       40         Miscellaneous       362.34		250 051 00
Royalty     \$ 7,600.50       Licenses—     \$ 89,381.10       Fishing     200,641.65       Sales—spawn taking     290,022.75       GENERAL—     241.50       Guides' Licenses     5,630.00       Fines     9,018.40       Sales—Confiscated articles etc.     7,162.45       Rent     3,096.50       Commission     1,952.40       Miscellaneous     362.34		000,001.00
Licenses—       \$ 89,381.10         Fishing       200,641.65         Sales—spawn taking       290,022.75         GENERAL—       297,864.75         Guides' Licenses       5,630.00         Fines       9,018.40         Sales—Confiscated articles etc.       7,162.45         Rent       3,096.50         Commission       1,952.40         Miscellaneous       362.34		
Fishing \$89,381.10 200,641.65 Sales—spawn taking 290,022.75 Sales—spawn taking 291.50  GENERAL—  Guides' Licenses 5,630.00 Fines 9,018.40 Sales—Confiscated articles etc. 7,162.45 Rent 3,096.50 Commission 1,952.40 Miscellaneous 362.34		
Angling		
Sales—spawn taking     290,022.75 241.50       GENERAL—     297,864.75       Guides' Licenses     5,630.00       Fines     9,018.40       Sales—Confiscated articles etc.     7,162.45       Rent     3,096.50       Commission     1,952.40       Miscellaneous     362.34	Fishing	
Sales—spawn taking     241.50       GENERAL—     297,864.75       Guides' Licenses     5,630.00       Fines     9,018.40       Sales—Confiscated articles etc.     7,162.45       Rent     3,096.50       Commission     1,952.40       Miscellaneous     362.34		
GENERAL—     297,864.75       Guides' Licenses     5,630.00       Fines     9,018.40       Sales—Confiscated articles etc.     7,162.45       Rent     3,096.50       Commission     1,952.40       Miscellaneous     362.34	Solog grown taking 240,522.15	
GENERAL—       5,630.00         Guides' Licenses       5,630.00         Fines       9,018.40         Sales—Confiscated articles etc.       7,162.45         Rent       3,096.50         Commission       1,952.40         Miscellaneous       362.34	Sales—spawn taking	297 864 75
Guides' Licenses       5,630.00         Fines       9,018.40         Sales—Confiscated articles etc.       7,162.45         Rent       3,096.50         Commission       1,952.40         Miscellaneous       362.34	GENERAL.	201,001.10
Fines       9,018.40         Sales—Confiscated articles etc.       7,162.45         Rent       3,096.50         Commission       1,952.40         Miscellaneous       362.34		
Sales—Confiscated articles etc.       7,162.45         Rent       3,096.50         Commission       1,952.40         Miscellaneous       362.34	Fines 9 018 40	
Rent       3,096.50         Commission       1,952.40         Miscellaneous       362.34	Sales—Confiscated articles etc. 7,162,45	
Commission       1,952.40         Miscellaneous       362.34		
Miscellaneous		
	And the state of t	27,222.09

The total amount of this revenue exceeds by \$139,200.25 the amount collected during the period of the last fiscal year reported upon, i.e., ending October 31st, 1934, and represents an increase of more than twenty-five per cent. By far the greater proportion of this additional revenue resulted from the increased issue of non-resident licenses, an increase amounting to practically \$100,000.00,—more than \$72,000.00 from the sale of additional non-resident angling licenses, and more than \$27,000.00, from the sale of additional non-resident hunting licenses. Resident hunting licenses, which this year for the first time included licenses to use dogs to hunt deer, netted an additional \$22,500.00, while revenue from fines and sales of confiscated articles, resulting from the operations of the enforcement service, also increased by more than \$7,800.00.

The total expenditures of the Department for this financial year, including both ordinary and capital, amounted to \$451,041.91, and it will be noted that our operations showed a surplus of revenue over expenditures totalling \$232,896.81. Compared with the previous twelve-month period reported upon, expenditures show a decrease of somewhat in excess of \$105,000.00, and while the figures quoted are an evidence of the considerably improved financial position of the Department, such a desirable condition has been attained not through any curtailment of necessary services or interference with departmental activities, but rather because of close and careful scrutiny and the resulting elimination of any unnecessary items of expenditure.

#### STATISTICS

Various tables of statistics are included as appendices to this report. They contain in detail considerable information with reference to the output of the fish hatcheries and rearing stations maintained and operated by the Department under the Fish Culture Branch, as well as information as to the distribution of the product of these hatcheries and rearing stations and the waters re-stocked therewith. Tables are also provided giving information with reference to the commercial fisheries of the Province, while interspersed throughout the actual report are statistical facts which refer to other branches of departmental activity, assembled, compiled and included herein for information, and all of which may be considered to be of value and interest.

#### GAME

The following table gives details as to the numbers of the various hunting licenses, both resident and non-resident, issued during the year, as compared with similar information for the two preceding years, and which figures it will be observed indicate increases in practically all instances, and substantiate the comments made earlier in this report concerning the improvement in our revenue collections:—

	1933	1934	1935-36
Resident Moose	673	512	496
Resident Deer	12,756	12,890	14,779
Resident Camp (Deer)	165	175	258
Resident Farmers' (Deer)	5,113	4,902	5,221
Resident Gun	97,561	76,210	85,884
Non-resident small game	318	489	686
Non-resident deer		475	652
Non-resident "General"	634	457	680

We shall now endeavour to summarize conditions as they apply to our game life, animal and bird,—as compiled from reports submitted by the officers of the departmental field service stationed in various sections of the Province:—

DEER:-In the eastern portion of northern Ontario these animals are not too plentiful, and little, if any, improvement was in evidence. In the western portion of the northern division, including Rainy River and Kenora Districts and the westerly half of the District of Thunder Bay conditions are splendid and the animals quite numerous. So far as the easterly portion of Thunder Bay is concerned, while conditions are not as favorable as in the westerly portion, reports indicated that their numbers are increasing. In southern Ontario or south of the French and Mattawa Rivers and Lake Nipissing, they appear to be increasing in the counties in the western and eastern sections where the protection of an entire closed season has been effective in recent years, particularly in those areas in which favourable habitat is available. They do not exist in the most southerly counties of the central portion of southern Ontario, in which there has not been the same protection, and which areas are of course quite closely settled. In those sections of southern Ontario in which these animals are subject to the most intensive hunting during the open season, reports indicate that speaking generally, existing conditions are favourable and somewhat improved.

MOOSE:—Are found in fair numbers in various parts of the north and apparently increasing in the eastern portion, though in southern Ontario they are very scarce and may be found only in scattered and remote sections.

CARIBOU:—These animals are extremely scarce. The herds are few and scattered and reported only in the eastern and western districts of the far northern part of the Province.

ELK (Wapiti):—As stated in previous reports this species has been introduced here by the importation of these animals from western Canada, with the co-operation of the Federal Authorities. Herds were previously liberated in the Nipigon-Onaman, Chapleau, Goulais River-Ranger Lake, Burwash and Pembroke Game Preserves, while transfer was undertaken of some of the animals at Pembroke to Algonquin Park and the Bruce Peninsula. While the animals may possibly be increasing in number nothing of a reliable nature may as yet be stated as to the success or otherwise of this experiment.

RUFFED GROUSE (Partridge):—These birds according to all reports were considerably less than normal in number in practically every section of the Province, particularly the north.

SHARP-TAILED GROUSE (Prairie Chicken):—Found only in extreme northwestern and northeastern portions, and there only in reduced numbers.

PTARMIGAN:—Conditions as they apply to this species are very similar to those reported for Sharp-tailed Grouse.

QUAIL:—Generally speaking, these birds may be found only in the extreme southwestern region, principally Essex, Kent and adjacent Counties, and reports indicate some improvement in this area. They are also noted as existing in some isolated spots in a few eastern Counties. The Department liberated live birds of this species, numbering 200 in all, principally in the Counties of Essex, Kent and Middlesex, in which the special open season prevailed.

**DUCKS:**—About the same as a general rule, with varying conditions in evidence in different sections, i.e. improvement and diminished numbers in intermingled areas.

GEESE:—Good along the James Bay shore, particularly in the vicinity of Moosonee. Conditions about the same along the routes of migration which follow through the north, and thence along the Counties bordering Georgian Bay, Essex and Kent, or through eastern Ontario.

**PLOVER and SNIPE:**—Neither of these two species is in any way plentiful. Conditions remained about the same in a general way, with slight improvement reported from widely separated areas. Present protective regulations quite necessary.

PHEASANTS (ring-necked):—Through departmental efforts these birds are now well established in the southwesterly Counties, and in the Counties bordering the western part of Lake Ontario. To the east of this they are showing some improvement and increase in number. Details of distribution show that during the year live birds numbering 1,122 were released, for the most part within the Counties in which the limited open season provided, particulars of which are given further on in this report, had prevailed, while 112 birds were taken and transferred from Point Pelee to other sections of Essex County. In addition 17,430 pheasant eggs were distributed to various applicants therefor, which included many settings to Game Protective Associations, to be hatched, and the chicks reared and liberated at the proper time for re-stocking. And again the Department is deeply grateful to those providing such co-operation in the matter of propagating and establishing this fine species of game bird. It is quite probable that this bird is now established in every section in which hope for its continued existence may be held.

HUNGARIAN PARTRIDGE:—The work of establishing this bird has been somewhat limited, and as a result they may be found only in a few scattered sections, where environment is suitable. They are not sufficiently established yet to justify the expectation of noticeable improvement.

WOODCOCK:—While conditions are fairly good in some sections, reports indicate they are not generally prevalent but are found in sufficient numbers for hunting purposes only in a few scattered districts.

RABBITS:—All species, including the cotton-tail, the snow-shoe and the European Hare or Jack Rabbit, are plentiful and provided good shooting during the late fall and early winter in practically all sections of southern Ontario, south of Muskoka, Victoria and Peterborough and east of Hastings. North and east of this, these animals showed quite a decrease in number and are somewhat scarce. In northern Ontario the jack rabbit does not exist, but the other species were scarce west of Algoma, but reported to be plentiful in the eastern section.

At this point reference is made to the special open seasons provided by regulation during the year, details of which follow:—

For deer in the Counties of Grey and Bruce November 18 to 23, and in that part of Carleton County west of the Rideau River, November 5 to 20.

For Moose in the County of Renfrew, November 5 to 20.

For partridge in southern Ontario, October 24, 25 and 26.

For pheasants on Pelee Island, October 23 and 24; and in the Counties of Haldimand, Lincoln, Welland, Durham, Northumberland, Leeds and Prince Edward-Lennox, November 1 and 2.

For pheasants and quail in the County of Middlesex, November 1 and 2.

For pheasants, quail and Hungarian partridge in the Counties of Essex and Kent, November 1 and 2.

Before closing this section of the report mention might reasonably be made of the Regulation which prohibits the feeding of migratory water-fowl for shooting

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purposes, and which was effective for the first time during the open season which prevailed this year.

#### FURS

Conditions as they affect fur-bearing animals throughout the Province, and as they have been reported to the Department, may be summarized as follows:—

BEAR:—Conditions remained about the same. These animals would appear to be fairly plentiful in northern Ontario, and the more northerly parts of southern Ontario.

BEAVER:—Showing some improvement in northerly portion of southern Ontario and in westerly part of northern Ontario, while to the east they are still scarce. The protection of an entire closed season which has been in effect in a large portion of the Province for the past few years was extended to include all of Ontario, so that the trapping of these animals is now prohibited throughout the Province the year round.

FISHER:—These animals are apparently extremely scarce, though there are indications of some improvement in the northerly part of the Province.

FOX:—This species is very plentiful and greatly increased in numbers, particularly in the north. In the southern portion of Ontario they are quite plentiful in the sections to the north and east, though somewhat scarce in the Counties to the west and south.

LYNX:—So far as the northern sections are concerned, while scarce, there is reported to be some slight improvement, particularly towards the east. In the southern section they are extremely scarce, being unknown in many areas.

MARTEN:—While the figures in the subjoined table show a little increase over the figures of the previous comparative period, indications are that this species is becoming scarcer throughout the entire Province.

MINK: —Indications and reports are to the effect that the numbers of these animals are diminishing, and more particularly would this appear to be the case in southern Ontario.

MUSKRAT:—Conditions which govern the welfare of this species have not been at all favourable during the past few years, with the result that these animals are adversely affected. A considerable decline in the catch is indicated by the figures included in the succeeding table, and reports generally indicate a noticeable decrease in all sections, except possibly the eastern section of northern Ontario.

OTTER:—General conditions are about the same so far as Otter are concerned, with possibly some improvement in the northeastern part of the Province.

RACCOON:—This species is practically unknown in northern Ontario. In southern Ontario conditions which apply are not much changed, even though the total catch as reported shows some decline.

SKUNK:—These objectionable little nuisances continue to be very plentiful in practically all sections, and the reduction in the numbers taken may be attributed to the lack of demand for the pelts and the low prices prevailing therefor, which apparently are not sufficient recompense for the trouble and inconvenience trapping of the same entails.

WEASEL:—Continue to be rather plentiful, though their numbers are possibly somewhat reduced. The figures evidence a considerable decrease in the numbers trapped, but as in the case of skunk prevailing prices for the pelts do not encourage operations for the trapping of this species.

SQUIRRELS (black and grey):—These animals are reported to be on the increase in southern Ontario, especially in the western and eastern Counties. Their numbers were sufficient to warrant a two-day open hunting season south of the French and Mattawa Rivers and Lake Nipissing, i.e. on October 24th, and 25th.

Operations by licensed trappers are carried on very intensively throughout Ontario during the periods of the various open seasons, and in a general sense the fur-bearing animals native to the Province are as a result encountering more than a little difficulty maintaining the several species at levels existing in recent years. Restrictive regulations imposed for their protection, particularly in the way of closed periods, undoubtedly require continuation, and the active co-operation of all concerned in observing and complying therewith is urgently needed.

The following comparative table shows the numbers of pelts of the different species of fur-bearers exported from the Province and dressed within the Province during the years 1933, 1934 and 1936, and upon which royalty was paid as required by the Game and Fisheries Act.

	1932-33	1933-34	1935-36
Bear	556 10,799	341 10,336	411 6,785
Fisher Fox (cross)	1,203 1,495	1,297 2,224	2,137 5,424
Fox (red) Fox (silver or black)	132	13,534	37,044 500
Fox (white)	111	89 85 2.138	883 495 2,642
Lynx Marten Mink	1,376	1,096 63,615	1,282 47,057
Muskrat Otter	637,348	521,751 3,330	398,043 3,701
Raccoon Skunk	12,109	18,673 73,721	13,259 50,747
Weasel Wolverine		68,164	42,643
	891,704	780,679	613,057

Based on the average prices as computed by the Department from information secured from reliable sources, the value to the trapper of the fur catch of the 1935-36 season is estimated at \$1,906,121.04, appreciated values accounting for the increase over the previous comparative period. These figures do not take into consideration silver, black and blue foxes and mink the product of our licensed fur farms, the pelts of which animals are exempt from the royalty provisions of the Game and Fisheries Act. During the year reported upon a total of 21,318 silver and black fox pelts were either exported from the Province or tanned, as well as 15 blue fox pelts and 9,641 mink pelts. The estimated total value of all these pelts was \$827,451.11, which, of course, accrued to fur farmers licensed under the regulations which govern such operations.

#### FUR FARMING

At this time a short resume of this branch of industry in Ontario during the past few years, as well as its present status should be of interest.

Following the economic conditions which developed in 1930, values declined severely, forcing a revaluation and a corresponding reduction of breeding stocks on fur farms. 29,331 animals were pelted in 1931, as compared with 13,140 in 1930; 8,149 in 1929; and 5,427 in 1928. The increase over the normal production further adversely influenced prices in the fur market and caused some severe financial losses to individuals. There were, however, some factors which compensated the industry In the process of reduction, the quality of breeding stocks was imas a whole. proved, creating a new standard of excellence. The lower values of breeding stocks attracted additional capital and new farms were established. While the reduction of breeding stock continued, the number of farms actually increased until a peak was reached in 1931, when 1,609 farms were licensed. A slight annual decline subsequently developed until 1934, when only 1,217 farms were licensed. dustry is again showing progress both in the number of farms and the breeding There were 1,239 farms licensed this year and breeding stocks increased by eighteen per cent. The propagation of mink is now commanding considerable attention, live stock having increased almost fifty per cent, whereas the silver fox, the other principal species, increased only twelve per cent.

SUMMARY OF BREEDING STOCK ON LICENSED FUR FARMS
AS AT JANUARY 1ST

	1934	1935	1936
Beaver	60	78	70
Fisher	18	19	16
Fox (cross)		434	367
Fox (red)		286	228
Fox (silver or black)		19.314	21,645
Fox (blue)		10	5
Lynx		2	9
Mink		$8.60\overline{5}$	12,332
Muskrat		447	375
Raccoon		799	524
Skunk		iŏň	3
Bear		11	21
Marten	1 77 1	1 6	1 2

The work at the Experimental Fur Farm continued, and the following is a short summary thereof:—

#### EXPERIMENTAL FUR FARM

Further investigations were carried out regarding the feeding of raw cereals to pup foxes after weaning at around eight to nine weeks of age. It was found that in an uncooked stage raw cereals were not only very improperly digested but that they were actually detrimental to the health of the pups. Scouring, bloating and intestinal disorders could be traced directly to this source. Once the raw cerealfed pups were placed on a diet containing thoroughly cooked cereals these objectionable symptoms entirely disappeared.

Due to the number of enquries from mink ranchers regarding the substitution of fresh meat and fish with dehydrated products, like meat meals and fish meals, feeding experiments were carried out to attempt to ascertain how far this might correctly be done. A summary of these experiments shows that fresh products cannot be entirely replaced by dried ones. Where animals were fed fish meals there was a steady decline in the haemoglobin of the blood resulting in mutritional anaemia. If liver meal was added to the fish meal diet the anaemia was arrested and finally disappeared. This was also the case with meat meals unless one third of the ration consisted of liver meal.

Apart from the nutritional condition of the animals there was a distinct tendency for the fur to be dry and scanty. It appears that quantities of fresh food must be fed to fur-bearing animals if the best results are to be obtained. Particularly does this apply to breeding stock, for if females are fed mainly on dried products they may breed and give birth to pups but they will invariably dry up during the lactation period and many pups will die at the fourth week as a result.

During the summer, regional meetings were held at Guelph, Owen Sound, Arnprior, Ridgetown and St. Mary's which were well attended and many and varied discussions arose during these meetings. In October a Field day was held at the Experimental Fur Farm at which time the foxes and mink were judged for quality and value by competent authorities on the subject. This meeting was highly successful and breeders attended from all parts of the Province.

#### CROWN GAME PRESERVES

The idea of Crown Game Preserves had its origin in the desire to protect and perpetuate the natural wild life resources of the country. The Department has not been slow in recognizing the value of protected areas for the natural propagation of game, and has continued to give increased attention to this phase of its conservation programme. In Northern Ontario, where the population is still sparse, and big game as a consequence more abundant, advantage has been taken of the fact that much Crown Land was available and large areas were in previous years established as Game Preserves. The ten largest of these, viz;—The Abitibi, Burwash, Chapleau, Goulais River-Ranger Lake, Lake of the Woods, Mississauga-White River, Nipigon-Onaman, Nipissing, Pipestone Lake and Superior, represent a total area of approximately 8,593 square miles. At the present time there are some 84 Crown Game Preserves in the Province, representing a protected area of close to six million acres.

During the period under review the Department has extended its game preserve policy to include a larger portion of southern Ontario. It is intended with the cooperation of private land owners to set aside as Game Preserves a number of small areas, each of about one thousand acres or so, located at strategic points in each County. While all species of game will be protected in these areas, they will be primarily useful as refuges for game birds, (migratory and non-migratory). The underlying idea in connection with these small Preserves is the same as in the case of the larger areas where big game is being successfully propagated. Given protection for a period of years game birds and animals, provided there is a foundation stock in the area, will increase in numbers and the overflow will serve to populate the surrounding districts. Fourteen of these Preserves have already been established in various Counties, (see tabulation). All of these areas are well suited for the purpose and most of them are already supplied with upland game birds. It is the intention of the Department however, to place the larger portion of its available adult birds on these Preserves for re-stocking purposes.

It is generally acknowledged that where the wild life is allowed to propagate with a minimum of human interference and in surroundings which provide natural food and cover, there will in time be a return to the normal conditions set up by nature. This means not only increased game in the protected areas but a general improvement in conditions throughout the Province.

So far as the general public is concerned these Preserves serve a dual purpose. From the standpoint of the sportsman they provide more game of all kinds and therefore better hunting. For those whose chief pleasure in the wild life is aesthetic, Crown Game Preserves will increase their pleasures by providing havens for the different species where they may be found in their natural state. In addition they will ensure that future generations will not be deprived of either the recreational or the aesthetic advantages which we now enjoy.

The following tabulation shows the Preserves added during the year in addition to several which have been either renewed or amended.

Transition 2.7	Name	County	Extent in Acres
:x: Wilder Lake :x: Woodlands .x Decew Falls .Camden .Dresden .Colchester Sor .Tilbury West .Cultus .Enniskillen .Erin .Horner .Komoka .Strathroy .Newbury .Malahide .Murray	pe	Grey Halton Lincoln Kent Essex Essex Norfolk Lambton Wellington Oxford Middlesex Middlesex Middlesex Elgin Northumberland	8,300 4,480 460 2,000 300 1,200 800 1,200 600 1,100 2,400 1,000 1,000 1,000 1,000 1,000 1,100

:x:—Renewed x —Amended

4 14

#### WOLF BOUNTIES

During the year under review, 1935-36, 2,004 claims for bounty, involving the pelts of 2,905 wolves, were dealt with. Rather more than fifty per cent of these wolves were killed in the four western districts of northern Ontario, of which about sixty-five per cent were brush wolves. A slightly higher ratio of timber wolves was taken in Algoma, Sudbury and Nipissing Districts, while only twelve per cent of these animals which were taken in the District of Cochrane were brush wolves. The following table details the sources of origin of the pelts submitted for bounty:-

#### SUMMARY OF PELTS

	No. of Ad	ult Wolves	Number	
District or County	Timber	Brush	of Pups	Total
Algoma	124	157	7	288
Bruce	12	9	i	
Cochrane	37	5	Ŏ	$\begin{bmatrix} 21 \\ 42 \end{bmatrix}$
Frontenac	7	ĭ	0	
Haldimand	l i	3	0	8
Haliburton	18	0	0	4
	1 -:	1 1	O C	18
Hastings	1	447	0	15
Kenora		444	1	673
Lanark		1 1	0	6
Lennox & Addington	1 77	100	0	11
Manitoulin		130	4	161
Muskoka		5	0	14
Nipissing		42	5	126
Norfolk	0	4	1	5
Ontario	1	3	0	4
Parry Sound	89	16	1	106
Patricia		136	2	226
Peterborough	3	1	0	4
Rainy River	125	231	ĭ	357
Renfrew	27	1 1	õ	28
Simcoe	12	6	ŏ	18
Sudbury	108	168	ŏ	276
Thunder Bay	138	336	5	479
remiskaming	4	7	ň	11
Victoria	ī	i	ň	
York	õ	2	0 1	2
VIII.			١	2
Гotal	1.159	1.710		
total	1,109	1,713	33	2,905

Seventeen claims were not granted including 20 pelts of dogs and other animals which were not eligible for bounty.

Following is a comparative table of wolf bounty statistics covering the three last complete financial years:—

Period	Timber	Brush	Pups	Total	Bounty & Expenses
For year ending October 31, 1933	1,112	1,229	43	2,384	\$53,433.88
For year ending October 31, 1934	990	812	57	1,859	27,080.65
For year ending March 31, 1936	1,159	1,713	33	2,905	42,399.89

Of the 1935-36 amount shown above, viz:—\$42,399.89, \$41,995.00 was the amount paid for bounty. Details of bounty paid are as follows:

Brush Wolves	(Counties) 30 (Districts) 1,666	_	•	\$ 180.00 \$24,990.00	
Total Brush	1,696				\$25,170.00
Timber Wolves	(Counties) 73 (Districts) 1,084	_		\$ 438.00 \$16,260.00	
Total Timber	1,157				\$16,698.00
Pups	(Counties) 1 (Districts) 25	@ @		\$ 2.00 \$ 125.00	
Total	26				\$ 127.00
Total	2,879	pel	lts		\$41,995.00

In respect to wolves killed in provisional judicial districts, bounty was paid by the Provincial Treasury, but for wolves killed in Counties it was paid by the County Treasury, of which forty per cent was rebated by the Province.

#### ENFORCEMENT SERVICE

Perhaps one of the most important services provided by the Department is the work of maintaining adequate respect for and proper observance of provisions of the Game and Fisheries Act and the regulations provided thereunder, as well as the various regulations applicable to Ontario adopted under the Fisheries Act. (Federal) and the Migratory Birds Convention Act. Generally speaking, this branch of activity is assigned to the members of the Field Service Staff, whose regular numbers were augmented by the appointment of additional Seasonal Overseers for special duty during the hunting seasons, and also during the critical fish spawning periods. This work is also included among the duties performed by members of the Provincial Police Force, a policy which was inaugurated during the latter part of 1934. and which assistance has been of considerable value. A word of appreciation may be expressed for the co-operation in this work which is provided by the many Deputy Game and Fishery Wardens, whose interest in the preservation of our game and fish resources is sufficient to encourage them to volunteer their services without remuneration, and who under such appointments are authorized to act in the capacity of enforcement officers for purposes of the Game and Fisheries Act. the calendar year 1935 Deputy Game and Fishery Warden appointments totalled 836, and one hesitates to estimate the value of the service and co-operation the Department received from these honorary officers, and the least that may be said is that it would be difficult to replace or duplicate the services which they rendered.

Notwithstanding the fact that these enforcement services are provided, there are still those who, in the case of the Game and Fisheries Act as in the case of other regulatory legislation, will either knowingly or otherwise infringe and who therefore are confronted with inconvenience and difficulty if contacted by the enforcement service when the violations occur.

During 1935-36 there were 1,216 cases in which offences were committed and in which the offenders were relieved by various officers of their equipment and the unlawful game or fish which might have been in their possession on these occasions. An examination of the reports of these seizures of equipment and goods shows that in 987 cases action was provided by Game and Fisheries Overseers; in 144 cases by Deputy Game and Fishery Wardens; in 36 cases by members of the Ontario Provincial Police Force and in 46 cases by co-operative action, Overseers, Deputy Game Wardens and Provincial Police working in conjunction with each other; while in three cases the action was taken by Municipal Police.

A condensed summary of the articles thus seized is submitted herewith:-

Description	No.
Fire-arms and ammunition	440
Fishing equipment	308
Fish	197
Game	154
Pelts	121
Trapping equipment	118
Angling equipment	62
Water craft	38
Lights (artificial)	37
Live animals	16
Motor vehicles	9
Miscellaneous	4)2

Duplicate entries on one seizure, such as fire-arms and game; Angling equipment and fish; trapping equipment and pelts; and other combinations of a similar nature account for the apparent discrepancy in the total of the above table, viz.—1,542 as compared with the 1,216 actual seizure reports.

Departmental records contain evidence of the fact that during the year under review there were some 967 cases in which offenders against our legislation and regulations were prosecuted in the courts, and in which convictions were registered against such offenders. As in the case of the actual seizures these court cases were somewhat varied as to origin, as follows:—In 806 cases Game and Fisheries Overseers were responsible for the prosecution; Provincial Police in 51 cases; Deputy Game and Fishery Wardens in 42 cases, and in 66 cases the prosecutions were by Overseers, Deputy Game Wardens and Provincial Police acting in conjunction with each other; while in 2 cases Municipal Police undertook the action.

#### REPORT OF THE FISH CULTURE BRANCH

Ontario's commercial fishing industry is an important factor in our industrial life. In point of annual marketed value of production Ontario stands first among the provinces. In the four year period 1926-1929, before the world-wide disruption of economic conditions was felt, the average marketed value of Ontario's fish was \$3,693,000. In the four year period, 1930-33, the average marketed value of the catch was slightly in excess of \$2,500,000 and in 1934 the marketed value was \$2,316,965., and in 1935, \$2,633,512.90. These figures are cited to emphasize the value of our commercial fishing industry, the hopeful signs of recent increasing values and the importance of maintaining this industry on a proper basis.

On the other hand, Ontario's game-fishing interests are vitally important to every person in the Province, and the conservation of these interests is becoming of practical concern to increasing thousands of our citizens. This is not difficult to explain, when we consider the recreational and health advantages, and the direct and indirect financial benefits of a large and ever-increasing tourist trade, embracing as it does in one way or another every branch of industry, thus increasing employment. It is estimated that 10,800,000 tourists from the United States and other countries entered Canada in 1935, and left behind \$200,000,000 in cash; of this total Ontario received \$84,000,000. Emphasis is placed on the importance of the tourist trade, for it is generally conceded that the chief attraction to the tourist is our excellent fishing.

There are many complex factors involved in the maintenance of fisheries interests and a few of the more important may be cited:

- 1. Scientific inquiry.
- 2. Re-stocking measures of a practial nature.
- 3. Protection.
- 4. The spread and development of the ideals of true sportsmanship.

All these factors are inseparably linked together in the problem of fisheries management.

#### HATCHERIES AND REARING STATIONS:

The Department operates twenty-two fish cultural stations. This number includes all the major and subsidiary rearing stations. The actual number of hatcheries is nineteen; trout rearing stations, nine; bass rearing stations, three; in addition to the facilities for hatching bass in the Lake on the Mountain, Glenora Hatchery.

During the year, a new trout rearing station was built in the vicinity of Chatsworth, comprising the hatchery for hatching and culture to the advanced fry stage, and four rearing ponds, all of which are separately fed and drained. Two excellent sources of spring water supply the hatchery and ponds, and a very important advantage in the arrangement is that the hatchery supply and the supply to the main rearing ponds are separate. The water itself is of satisfactory composition and of low and approximately constant temperature 45°F. The total volume of water delivered is approximately 2100 gallons per minute. The constant and relatively high winter temperature induces early hatching, so that the fish are strong and well advanced for transfer to the rearing ponds in early summer.

The Department acquired a series of four ponds at Midhurst Reforestry Station. These were renovated and trout carried over winter. Additional improvements will be made on these ponds next year.

#### SPECKLED TROUT:

The Department's objective is to increase the number of sizable trout distributed to suitable waters year by year. This is necessary if we are to maintain the supply on account of the increasing intensity of the fishing. Furthermore, there are numerous streams in southern Ontario, in which the food supply for trout fry and fingerlings has diminished and cannot meet the requirements imposed on the stream by the introduction of additional supplies of baby fish. This condition is due to the rapid industrialization of the Province by agricultural, lumbering, manufacturing, and other interests, all of which have been instrumental in changing the character of our lakes and streams. It is clear to anyone, for example, how effective scouring freshets, and bulging streams heavily laden with silt are, in changing the quantity and quality of the food supply. During prolonged periods of drought, also, the shallow muddy shoals and backwaters, the home of minute life on which

young trout feed, become dried up. It is clear, therefore, that under such circumstances planting yearling and older fish which feed on the larger forms of terrestrial and aquatic life, insects, shellfish, and fish will have a better chance to survive. It is true that if fry and small fingerlings are carefully distributed in protected headwaters, a percentage will survive, but we may plant yearlings in the main streams of creeks with much greater impunity and with greater hope of success since fish of this age can more easily search out favourable sections of the stream for food and shelter. There are numerous lakes, also, where on account of the limitations of food supply, the planting of fry and fingerlings is undesirable. For example, lakes with both shallow and deep water, should produce more trout food for immature and mature trout than those with precipitous shores, where the shallow water fauna are extremely limited. In the latter case the planting of larger trout is desirable.

We must remember that the productiveness of any natural body of water is fixed by nature and our objective is to prevent fishing from reaching a low level. When a body of water becomes depleted to too low a level the increase of undesirables often goes on to such an extent that it becomes increasingly difficult for trout. especially young trout, to survive. The introduction of yearling and older trout, in such cases, is obviously a more practical procedure.

The following table illustrates the progress being made in the distribution of larger trout to suitable lakes and streams throughout the Province:

Length in Inches	1934	1935
3 to 7 inches	913,315	2,464,987
4 to 9 inches	19,538	
4 to 16 inches	3,876	189,156

#### BROWN TROUT:

Brown trout are native to lakes and streams in the temperate portions of Great Britain, France, Germany, and other central European countries. The Loch Leven trout is a form of brown trout inhabiting Loch Leven in Scotland.

Brown trout have been introduced and are now fairly abundant in certain waters of the Great Lakes watershed. They have been propagated in Michigan since about 1880. Most of the early plantings of brown trout were in the fry stage, as a result of which they are now rather widely distributed especially in the lower peninsula. Brown trout are now being reared to the fingerling stage in Michigan and good results are claimed from these plantings to date. Brown trout are also established in the more southerly sections of Wisconsin and Minnesota, and also in New York State.

Conditions suitable for brown trout are closely parallel to those suitable for speckled trout, excepting that brown trout according to the experience of those best qualified to judge will endure much higher water temperatures than speckled trout, and hence are valuable for re-stocking lower stretches of streams which are no longer suitable for the latter on account of temperatures in excess of 75°F.

In a biological survey of the Genesee River system, in New York State, it was observed that with few exceptions brown trout were found in every stream inhabited by brook trout. However, in the colder brook trout streams, showing temperatures below 65°F, they were rarely encountered. They reached maximum size and abundance in streams ranging from about 68 to 75°F, and occurred in many others attaining temperatures as high as 80°F.

Our policy, and the general concensus of opinion of those who have had experience with this trout in America is that it should not be introduced into any waters where conditions are still suitable for native speckled trout, as experience

has shown that the brown trout become predominant, eventually, and replace brooks. They not only compete with brooks for food, but they spawn about the same time and are known to monopolize the spawning beds.

The lower reaches of many streams in southern Ontario do not possess suitable conditions for speckled trout. The headwaters of some of these streams, still provide suitable conditions for a limited number of small trout, but, on the whole, they could be more profitably stocked with browns. After careful survey and selection, a number of promising streams have been stocked in old Ontario and favourable reports have been received on some of these.

Brown trout are much more notional in their feeding habits than our native trout and hence are not so easily taken. They are considered a night feeder, and probably the best catches are made about dark, although there are many exceptions and good catches have been made during the day time. In view of the difficulties experienced in catching brown trout, they withstand heavy fishing pressure, and hence are valuable for re-stocking waters in populated areas.

There are several examples which testify to the fact that brown trout will live in lakes, but on account of the difficulty of capture in such an environment, from the standpoint of sport fishing, re-stocking seems impracticable. However, for the purpose of establishing natural sources of supply for brown trout eggs, the introduction to suitable and controlled areas is worth a trial. This was the Department's objective in re-stocking Brewer Lake, in Algonquin Park, as noted in the report of the Department for 1934.

A biological study of the lake was first carried out by setting test gill nets, etc., to determine the inhabitants of the lake, their relative abundance and their feeding habits. The lake was then intensively netted for mature trout, predatory and competitive fish. The catch was chiefly comprised of lake trout, speckled trout, suckers and ling. When the netting was completed, the outlet of the lake was suitably screened off and brown trout introduced. In addition to favourable biological features, the lake is also accessible and easily controlled.

#### RAINBOW TROUT:

A study similar to that conducted for brown trout was made on Costello Lake, located immediately below Brewer Lake and into which Brewer Lake drains. After screening the outlet, rainbow trout yearlings were planted directly into suitable parts of the lake and fingerlings were planted in the stream connecting Brewer and Costello.

The object of this work is to establish, if possible, a source of supply for collecting spawn in order to overcome the expense incurred in retaining domesticated stock in ponds.

The rainbow trout distributed in our waters show a strong migratory instinct to drop down to larger waters while they are yet immature. In this way they become lost to the stream in which they were originally planted, except during their return for spawning purposes. During the year fingerlings have been distributed in ponds, lakes and streams where the best possible results may be obtained. Care was taken to plant the rainbows in waters where spawning facilities were available and tributary to larger suitable waters.

As an illustration of some success of the introduction of rainbow trout, may we quote the result of planting rainbow trout fingerlings in Burnt Lake, Townships of Sherbourne and McClintock, District of Haliburton, in 1932:

"The development of Rainbow Trout in this water has been most satisfactory and the following is a record of fish taken during 1934, 35: J. M. Guide—5 from 15 to 18 inches long; B. B., Dorset—1, 2¼ lbs. in weight; A. M., Dorset, 3 about 16 inches long; A. T. W., Dorset, 3 about 16 to 18 inches long; L. R., Rochester, N.Y., 5 that were weighed at Robertson's stores and averaged 2½ lbs."

We have a supply of fall spawning rainbow trout breeders but how closely they will follow the fall spawning habit is questionable. It is reported officially, however, that this particular strain has a tendency to remain in the waters in which they are planted; they grow rapidly and withstand high temperatures. Spawn will not be collected from these fish until the fall of 1937, when they will be three years old If any revert to a spring spawning habit, they will be segregated.

#### KAMLOOPS TROUT:

This species, described in a previous report, was introduced for the first time to a few specially chosen waters and these plantings will be carefully followed up to determine the results.

Kamleops trout spawn in streams and in lakes on bars at the mouths of spring streams. Although these fish do not spawn until April, May, or June, they are cultured similarly to speckled trout and in British Columbia live and thrive in waters suitable for speckled trout.

#### LAND-LOCKED SALMON:

The land-locked salmon or ouananiche was described in a previous report. The Department succeeded in planting 13,648 yearlings in specially chosen waters, and the results of these plantings will be carefully followed up. Lakes suitable for lake trout were chosen, since a closely related form thrives exceedingly well in a lake trout environment. The ouananiche, the chief centre of which is Lake St. John in Quebec, spawns in tributaries to that lake.

#### LAKE TROUT:

The number of eyed lake trout eggs distributed, set forth in the report November 1st, 1934 to March 31st, 1935, was nearly five times the number distributed in 1934.

More than six times as many fry were distributed in 1935 and over one million were planted in inland waters.

Half a million more fingerlings were distributed as compared with the previous year and nearly half the total distribution of lake trout fingerlings was planted in inland waters, thereby succeeding in the drive prophesied in the preceding report.

#### WHITEFISH:

Including that quantity of whitefish distributed between November 1st, 1934, and March 31, 1935, there was an increase in the 1935 planting amounting to slightly more than 13 per cent.

It should be stated that this distribution was exceeded only in 1924 and 1927.

#### HERRING:

There was an increase of 66.4 per cent. in the distribution of herring fry over that of the previous year, including one hundred thousand included in the report of the five months, November 1, 1934, to March 31, 1935.

#### YELLOW PICKEREL:

There was a decrease in the distribution of pickerel fry to the extent of approximately 48,841,000 due to an unsatisfactory run of pickerel in the Bay of Quinte.

Large numbers of fry were distributed to suitable inland game fishing areas.

#### SMALL-MOUTHED BLACK BASS:

There was a percentage increase in fry distribution over the previous year amounting to approximately 47 per cent. The Department was also successful in distributing more than four times as many fingerlings, that is an increase of over one hundred and seventeen thousand, in addition to 3,435 yearlings and adults, as compared with 420 adults in 1934.

#### LARGE-MOUTHED:

From one pond devoted to the culture of this species at the Mount Pleasant Hatchery, 130,000 fry and 2,153 fingerlings were distributed.

#### MASKINONGE:

As a result of the Department's operations on the Pigeon River at Omemee, 460,000 maskinonge fry were distributed to suitable waters.

The chief difficulties attending our operations this year were adverse weather conditions, that is sudden lowering of temperature from a gradually rising one and, also, the scarcity of ripe males and females. Abundance of eggs and a small amount of milt results in high fertility.

We have already discussed the unsuccessful attempts made on this Continent to rear maskinonge to the fingerling stage in appreciable numbers. Millions of fry have been produced in New York and Wisconsin hatcheries and Ontario can do likewise when sufficient spawning fish are available and when favourable spawning and hatching temperatures are actualities.

#### SANCTUARIES:

There is a trenmendous demand for more and more black bass and maskinonge for maintaining the supply in our inland waters, since both of these species have a very great appeal to anglers. Our rearing ponds and hatcheries are doing good work, but considering the extent of Ontario's bass and maskinonge waters and the enormous resident and non-resident fishing population, we can scarcely hope to produce an adequate number of these species by pond culture to close the gap between supply and demand.

In addition to the imposition of suitable closed seasons, sane creel limits, the control of competitive and predatory species, and pollution, there is probably no more promising method of bass and maskinonge conservation than the establishment of sanctuaries, that is setting aside in certain suitable waters, a number of bays in which fishing of any kind is prohibited. The bass and maskinonge multiply in these areas without interference and spread to other parts of the said lake or stream, thus preventing depletion. By such means we may be approaching the ideal of maintaining a permanent breeding stock and taking each year only the natural increase from it.

In many areas of this kind maskinonge and large-mouthed black bass live and thrive. In many, also, there are mixed environmental conditions, so that small-mouthed black bass is a frequent inhabitant also. Closures of this nature will be followed up from time to time to determine the results and if there are deficiencies in these closed areas, we propose to remedy them, if possible. For example, condi-

tions in certain areas may be vastly improved by eliminating useless competitors or enemies, and a number of areas may show distinct possibilities for rearing lunge and bass under controlled natural conditions.

In view of an ever-increasing tourist trade, fishing for bass and maskinonge is becoming more and more intensive and considering the accessibility the ease and speed with which many of our waters may be invaded, it becomes increasingly evident that sanctuaries of this nature are necessary.

It is difficult to draw any hard and fast line between sanctuaries and closed areas enumerated below. In many of these and in many waters formerly closed, the sanctuary principle is evident. In many instances, however, the object of closure of an entire body of water is for stock and supply. Such an area is closed permanently to public fishing, so that quantities of bass may be removed each year by harvesting methods for re-stocking suitable waters in the vicinity. This type of closure is slightly different from the principle embodied in establishing sanctuaries but the same objective, namely practical re-stocking, is involved.

#### CLOSED WATERS:

The following waters were closed to all fishing during the year for the purpose and for the period specified:

#### Creamery Creek and Trout Rearing Pond in Harrison Park, Owen Sound-

Located in the Township of Derby, County of Grey,—closed until May 1st, 1939, for brown trout propagation.

### North Lakes or Gravel Lakes and their connecting streams and Creek flowing from Fourth Gravel Lake to Whitefish Lake—

Located in unsurveyed territory west of the Township of Strange, District of Thunder Bay,—closed until August 22, 1938, for speckled trout propagation.

#### Silver Islet Creek-

Located in the Township of Sibley, District of Thunder Bay,—closed to all fishing until September 11, 1937, for speckled trout propagation.

A large number of waters were closed in 1936, and for information concerning these the Game and Fisheries Laws should be consulted.

#### REMOVAL OF COARSE FISH:

Between April 1, 1935, and March 31, 1936, hoop nets and trap nets were operated in the following lakes in Leeds and Lanark Counties, namely: Bennett, Christie, Pike, Otty, Rideau, Crow, and the Mississippi River, and a total of 1,818 ling were removed. Taking five pounds for the average weight of the ling from all of these lakes, 9,090 pounds were removed. Adverse weather conditions slowed up the work to a considerable extent. Blocked roads in the district prevented our officers from getting to the lakes as effectively as during previous winters when such work was undertaken.

Similar work was conducted on Lake Manitou, Manitoulin Island, where gill nets were set and a total of 2,416 pounds of ling were removed; the average weight of the ling was 4 lbs.

In order to have a more complete picture of the removal of ling from our inland waters, reference should be made to the report for the five month period, November 1st, 1934, to March 31, 1935.

#### WATER LEVELS:

In view of the shallowness of the water in which maskinonge, pike, black bass and forage fish spawn, sudden fluctuations in water levels over natural spawning beds are inimical. The Department has appealed to all those responsible for such operations and the Department of Railways and Canals was supplied with the following data on the waters on which they operate dams for power and navigation purposes, namely, the fish frequenting the waters, the spawning dates of the various species and the spawning depths. As a result we look for definite improvement along these lines. Judging from information received from our field officers, considerable improvement is evident.

#### NUTRITION OF TROUT:

During the fall, winter and spring of 1935-36 a number of feeding experiments were conducted in the Department's experimental hatchery in the Parliament Buildings, Toronto. The object of these experiments was to find a suitable food or mixture of foods that would produce healthy and vigorous trout at a lower cost than the food generally used, namely beef liver.

Previous investigations of this nature have been conducted by the Department and a short account of this was given in a report of December 21, 1935, entitled 'Ontario's Problems in Fisheries and Status of Research,' published in the proceedings of the Conference on Fresh Water Fish Culture, Ottawa, January 3rd, 1936.

The experimental hatchery contains four large glass aquaria  $5' \times 3' \times 26''$  of water; six galvanized iron troughs,  $2'4'' \times 6'' \times 6''$  of water; and four troughs,  $5' \times 10\frac{1}{2}'' \times 5''$  of water. (The small galvanized iron and wooden troughs were painted on the inside with paraffin varnish). Thus the experiments were divided into three groups and in each unit of each group, similar conditions prevailed. In each group a control unit was set up in which beef liver was used as a standard for comparison with the other feedings. Two per cent. by weight of cod-liver oil was added to all feedings. The diets used are tabulated below, indicating any changes made during the course of the experiments.

The diets used in the experiment and the percentages of the various constituents were as follows:

	Diet No.	Food	Percentage		
	1	Beef Liver	100		
	2a	Beef Liver Alewives	75 25		
Group A	2 b	Beef Liver Alewives	50 50	Feb. 3/36	
Glass Tanks	3a	Beef Liver Soybean Meal	75 25	In 11	Wah 4
	3 b	Beef Liver Soybean Meal Pigmeal	Jan. 27 40 10 50	Jan. 31  50  50	Feb. 4 50 10 40
	4	Beef Liver Pilchard Meal Ling	50 25 25	Sucker subs Ling April	

	Diet No.	Food	Percentage	
	5	Beef Liver	100	
	6	Beef Liver Salmon Egg Meal	75 25	Lake trout egg meal used until Jan. 10th when salmon egg meal arrived.
	7	Beef Liver Pilchard Meal	75 25	
Group B Tin Troughs	8	Beef Liver Beef Heart Salmon Egg Meal Fish Mixture	20 14 17 34	Lake trout egg meal substituted for salmon egg meal until Jan. 10/36.
	9	Beef Liver Beef Heart Pilchard Meal Fish Mixture	20 14 17 34	
	10	Beef Liver Hog Melts Pilchard Meal Fish Mixture	25 25 25 25 25	
41,	. 11	Beef Liver Hog Melts Ling	50 25 25	
Group C	12	Beef Liver Hog Melts Fish Mixture	5 0 2 5 2 5	
Wooden Troughs	13a 13b	Beef Liver Hog Melts Beef Liver Hog Melts Salmon Egg Meal	75 25 <b>Jan. 18, 1936</b> 50 25 25	
	14	Beef Liver	100	

The fish mixture referred to was a mixture of equal weights of the flesh of the common sucker and ling. In the case of the alewife and gizzard shad, the entire fish was ground up.

Each unit of each group was fed the same weight of food and the amount fed was regulated in such a way that a minimum of uneaten particles was left on the bottom of the tank or troughs. Since there is no accurate way of measuring this waste food and since it was fairly uniform in each unit of each group, it was not included in the calculations.

At regular intervals the fish were weighed and the weight increase for that period was obtained. From this, the increase in weight for 100 fish could be

calculated and by taking the total increase in weight per 100 fish for the duration of the experiment and dividing it into the total amount of food fed per 100 fish the number of grams (or pounds) of food required to produce one gram (or pound) increase in weight of the fish was determined. This figure is called the 'efficiency factor.' Naturally, the lower this figure is, the more efficient the food.

Summarizing the details of the experiment we have the following results:

- 1. Diets 3a and 3b cannot be considered since, after feeding for a period of 132 days the fish began to die from an intestinal disorder which could only be blamed on the diet.
- 2. Diet No. 4 cannot truly be compared with the other diets of group A, since rainbow trout were fed, whereas the other diets of the group were fed to speckled trout. A different growth rate would be expected. However, it should be stated that these fish progressed in health and weight very satisfactorily and there was every reason to believe that the diet was a good one.
- 3. Diets 2a and 2b excelled diet No. 1, namely the liver control, as shown in the following table:

Cost for one pound	Cost for one pound increase in fish weight		
Diets 2a and 2b and 2a+2b	Liver Control for same Period		
62.5c	84.0c		
69.2c	107.1c		
67.4	95.5c		
	Diets 2a and 2b and 2a+2b 62.5c 69.2c		

- 4. In Group B the diets appear in the following order from the standpoint of economy, namely, 8, 10, 7, 9, 6, and 5 (liver control).
- 5. In Group C diet 13a is the only one that showed any improvement over the liver control diet No. 14. The addition of salmon egg meal to this diet apparently proved uneconomical in this case.
- 6. Diet 2 appears to have excellent possibilities as an economical trout food. In view of the absence of suitable refrigeration facilities, at trout rearing stations, the use of raw fish products as food, during the summer months, is surrounded by many practical difficulties. During the winter, this difficulty can be overcome to a considerable extent, but there is the additional difficulty of keeping the fish in a wholesome condition for long periods. Processing the whole fish into a meal is a practical way of handling this food, and obviates the possibility of transferring fish parasites in the raw fish food. We have had several tons of alewives processed and found the meal mixed with raw beef liver equally as good as the fresh fish. The question of drying the fish has been considered, but this method has not been used to date, for the reason that quantities of alewives were difficult to obtain during that period when air drying would be most practicable.

Diet 13a should also be considered as well as the diets of Group B. Diets 8, 9, and 10 of this group include fresh fish and would present the same problem regarding preservation as diet 2. Diets 6 and 7 do not present these difficulties.

#### ACKNOWLEDGMENTS

In conclusion I desire to publicly express my appreciation of the assistance and support received by the Department from many sources during the year 1935-36.

Our work, which at times may be somewhat difficult and perhaps onerous, has been made the more pleasant and enjoyable by reason of the continued co-operation of interested persons and the various Fish and Game Protective Associations which

exist throughout the Province, and the personal contacts of myself with the officers and members of many of these organizations, and the assurances derived therefrom, are an evidence of the fact that the genuine sportsmen of this Province are interested in the work of the Department in every line of its endeavour, and more particularly in the policy and practice being followed to ensure a perpetuation for the mutual advantage of all our people of the wild life natural resources of this Province.

Mention might also be made of the fact that generally speaking, members of the staff, both the inside and the outside service, have conducted themselves and performed the duties assigned to them in the best interests of the Department and its varied activities.

All of which is respectfully submitted.

I am, Sir,

Your obedient servant.

D. J. TAYLOR,

Deputy Minister of Game and Fisheries

Toronto, March 10, 1937.

#### APPENDIX No. 1

LARGE-MOUTHED BLACK	BASS	Bruce—Cont.	9 500
$\operatorname{FRY}$		Cyprus Lake Gould Lake	$\begin{smallmatrix}2,500\\10,000\end{smallmatrix}$
Bruce: Boat Lake	5,000	Lake Isaac Sauble River	5,000 10,000
Durham: Lake Scugog	15,000	Carleton: Rideau River	25,000
Muskoka:  Butterfly Lake  Leach Lake	5,000 5,000	Elgin: Pinafore Lake Union Pond	10,000 5,000
Norfolk: Little Lake	5,000	Frontenac: Antoine Lake Bull Lake	5,000 5,000
Parry Sound: Crawford Lake, also called Otter Lake Deer Lake (Lount) also called Ferry Lake	5,000 5,000	Collins Lake Crow Lake Loughboro Lake Mississagagon Lake Reed's Lake Sharbot Lake Sydenham Lake	5,000 2,500 10,000 5,000 5,000 10,000 2,500
Peterborough: Round Lake Pearson's Lake, also called Wright's Lake	10,000 5,000	Grey: Saugeen River Wilcox Lake	25,000 5,000
Simcoe: Boyne River Little Lake (Tay Tp.) Lake Simcoe Orr Lake	10,000 25,000 15,000 10,000	Hastings: Crow Lake Deer River Kamaniskeg Lake Moira River	5,000 1,000 10,000 10,000
Victoria: Mud Lake, also called Dal- rymple Lake	10,000	Huron: Bluevale River	10,000
FINGERLINGS Lincoln: Twenty Mile Creek, also called Jordan Pond	1,000	Lanark:  Bennett's Lake  Black Lake Christie Lake Mississippi Lake Otty Lake Pike Lake Silver Lake	5,000 5,000 5,000 10,000 10,000 5,000 5,000
Little Lake	1,153	Leeds: Cranberry Lake Gananoque Lake Grippen Lake Rideau Lake (Wolfe Lake) Sand Lake Troy Lake	5,000 10,000 5,000 25,000 5,000 5,000
Hemlock Creek Kent: Rondeau Bay	6 15	Lincoln: Twelve Mile Creek	10,000
Waterloo: Grand River	6	Muskoka: Bass Lake Big Rat Lake Black Creek	5,000 5,000 5,000
SMALL-MOUTHED BLACK	BASS	Bull Head Lake  Deer Lake (Stephenson)	5,000 5,000
FRY Bruce: Boat Lake Cameron Lake	5,000 2,500	Koshee Lake Leonard Lake Muskoka Lake Poverty Lake Riley's Lake	5,000 5,000 20,000 5,000 5,000

SMALL-MOUTHED BLACK —Continued	BASS	New Dundee Creek, also called Alden Creek Speed River	5,000 10,000
MuskokaCont.		PINGEDLINGS	
	20.000	FINGERLINGS	
Rosseau Lake	20,000		
Six Mile Lake	10,000	Addington:	
Sucker Creek	5,000	Beaver Lake	800
Three Mile Lake	5,000	White Lake	800
Wood Lake	5,000		
		Algoma:	
Norfolk:		Basswood Lake, also called	
Waterford Pond	5.000	Waquekobing Lake	2,000
Wateriora rona vivi	0,000	Clear Lake, also called Wa-	
37 - 11 1 1 1 -		komata Lake	2,000
Northumberland:	F 000	Gawas Bay (North Chan-	_,,
Brighton Bay	5,000	nel)	2.000
Crow River	5,000	Pipe Lake	1,000
		Stuart Lake	1,000
Ontario:		Lake George, St. Joseph's	1,000
Lake St. John	5,000		6,000
		Channel, and Pine Island.	0,000
T		(St. Mary's River)	-11
Parry Sound:	10000	D	•
Ahmic Lake	10,000	Brant:	<b>7</b> 000
Bear Lake	5,000	Big Creek	7,000
Beaver Lake	5,000		
Blue Lake	5,000	Bruce:	
Commanda Lake	5,000	Chesley Lake	5,000
Crane Lake	5,000		
Deer Lake (McKenzie) also		Durham:	
called Wah-Wash-Kesh	<ul> <li>10,000</li> </ul>	Rice Lake	2,000
Deer Lake (Lount) also	1.00		
called Ferry Lake	10,000	Elgin:	
Doe Lake	10,000	Lake Pinafore	765
Jack's Lake	5,000	Liuno I muroro vivivivi	
Lake of Many Islands	5,000	Frontenac:	
Limestone Lake	5,000	Black Lake	500
Little Clam Lake	10,000	Elbow Lake	500
Lynch Lake	5,000	Gull Lake	5,000
Magnetawan River	10,000	Long Lake (Portland)	500
	5,000		300
Manitowaba River		Long Lake (Clarendon) al-	500
Mill Lake	5,000	so called Kash-wak-a-mak	500
Restoule Lake	10,000	Potspoon Lake	900
Rausch Lake, also called	- 000	Shawenigog Lake, also cal-	F00
Long Lake	5,000	led McClintock Lake	500
Stormy Lake	5,000	White Lake	1,000
Sucker_Lake	5,000		
Trout Lake (McDougall) .	5,000	Glengarry:	
Trout Lake (Humphrey) .	10,000	St. Lawrence River	3,000
Whitestone Lake	5,000		
Wilson Lake	5,000	Haliburton;	
Wolf River	10,000	Miserablė Lake	1,000
Prince Edward:		Hastings:	
Consecon Lake	5.000	Baptiste Lake	1,000
Composition 13th Commission 13	0,000	Gunter Lake	500
Domfman		Little Salmon Lake	500
Renfrew:		Loon Lake (Bangor Twp.) Moira Lake, also called Hog	500
Corry Lake, also called	= 10.00	Moira Lake, also called Hog	
Chalk Lake	5,000	Lake	1,000
		Otter Lake	500
Simcoe:		Tongamong Lake	500
Lake Couchiching	15,000	Trout Lake	500
Severn River	20,000	Weslemkoon Lake	500
	-0,000	York River	- 500
Victoria:		TORK MIVER	300
		77	
Mud Lake, also called Dal-	10.000	Kent:	15 000
rymple Lake	10,000	Rondeau Bay	15,000
Waterloo:		Lanark:	-1 000
Grand River	15,000	Round Lake	1,000

—Continued	BASS	YEARLINGS	
		Manitoulin:	
Leeds:		Tobacco Lake	56
Charleston Lake	1,500	Kagawong Lake	800
Cranberry Lake	1,000	341331	
Grippen Lake	1,000	Middlesex:	
Otter Lake	1,000	Thames River	2
South Lake	1,000	Waterloo:	
Whitefish Lake	1,000	Grand River	8
ON IN TRANSPORT		Grand River	0
Manitoulin:		ADULTS	
Tobacco Lake	2,500		
Middlegove		Carleton: McKay Creek, also called	
Middlesex: Pond Mills	1.000	Hemlock Creek	6
Thames River	12,200	Hemiock Greek	U
Thames itives	12,200	Kent:	
Muskoka:		Rondeau Bay	161
Duck Lake	1,000		
Joseph Lake	2,000	Middlesex:	
Long Lake	1,000	Thames River	44
Pine Lake	10,000	D 1 D1	
Lake Rosseau	2,000	Rainy River:	
Sparrow Lake	10,000	Clearwater Lake, also called	1.0
Nouthann boules 4.		Burdette Lake Jackfish Lake	12 7
Northumberland:	500	Jackiisii Dake	4
Crow Bay	1,500	Waterloo:	
Trent River	1,000	Grand River	39
the transfer that the transfer	1,000		00
Parry Sound:		Sudbury:	
Deer Lake, also called		Miscellaneous planting—Fing	
Wah-Wash-Kesh Lake	1,000	Adults, and Yearlings	
(2)		Windy Lake	300
Peterborough:	1 000	Lake Penage	2,000
Belmont Lake	1,000	MASKINONGE	
Deer Lake (Belmont) Deer Lake (Cavendish)	$\frac{1,000}{1,000}$	MASKINONGE	
Jack's Lake, also called	1,000	Durham:	
TTT			
white's Lake	1.000	Rice Lake	50.000
White's Lake Lovesick Lake	$\substack{1,000\\1.000}$	Rice Lake	50,000
Lovesick Lake	$1,000 \\ 1,000 \\ 1,000$	Hastings:	
Lovesick Lake	1,000		50,000 50,000
Lovesick Lake	$\substack{1,000\\1,000}$	Hastings: Crow Lake	
Lovesick Lake Oak Lake Round Lake Renfrew:	$\substack{1,000\\1,000}$	Hastings: Crow Lake Northumberland:	50,000
Lovesick Lake	1,000 1,000 1,000	Hastings: Crow Lake  Northumberland: Crow Bay	50,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake	1,000 1,000 1,000	Hastings: Crow Lake Northumberland:	50,000
Lovesick Lake Oak Lake Round Lake  Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake	1,000 1,000 1,000	Hastings: Crow Lake  Northumberland: Crow Bay Trent River	50,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake Hurd's Lake also called	1,000 1,000 1,000 500	Hastings: Crow Lake  Northumberland: Crow Bay Trent River  Peterborough:	50,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake Hurd's Lake also called Hond's Lake	1,000 1,000 1,000 500 500	Hastings:     Crow Lake	50,000 20,000 45,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake Hurd's Lake also called	1,000 1,000 1,000 500	Hastings: Crow Lake  Northumberland: Crow Bay Trent River  Peterborough: Chemong Lake	50,000 20,000 45,000 25,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake Hurd's Lake also called Hond's Lake	1,000 1,000 1,000 500 500	Hastings:     Crow Lake  Northumberland:     Crow Bay     Trent River  Peterborough:     Chemong Lake     Clear Lake     Round Lake	50,000 20,000 45,000 25,000 50,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake Hurd's Lake also called Hond's Lake Maves Lake Simcoe:	1,000 1,000 1,000 500 500 500	Hastings:     Crow Lake  Northumberland:     Crow Bay     Trent River  Peterborough:     Chemong Lake     Clear Lake     Round Lake  Victoria:	50,000 20,000 45,000 25,000 50,000 20,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake Hurd's Lake also called Hond's Lake Maves Lake	1,000 1,000 1,000 500 500	Hastings:     Crow Lake  Northumberland:     Crow Bay     Trent River  Peterborough:     Chemong Lake     Clear Lake     Round Lake  Victoria:     Balsam Lake	50,000 20,000 45,000 25,000 50,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake Hurd's Lake also called Hond's Lake Maves Lake Simcoe: Little Lake (Vespra) Victoria:	1,000 1,000 1,000 500 500 500	Hastings:     Crow Lake  Northumberland:     Crow Bay     Trent River  Peterborough:     Chemong Lake     Clear Lake     Round Lake  Victoria:     Balsam Lake     Stump Lake (Pigeon	50,000 20,000 45,000 25,000 50,000 50,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake Hurd's Lake also called Hond's Lake Maves Lake Simcoe: Little Lake (Vespra) Victoria:	1,000 1,000 1,000 500 500 500	Hastings:     Crow Lake  Northumberland:     Crow Bay     Trent River  Peterborough:     Chemong Lake     Clear Lake     Round Lake  Victoria:     Balsam Lake     Stump Lake (Pigeon     River)	50,000 20,000 45,000 25,000 50,000 50,000 100,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake Hurd's Lake also called Hond's Lake Maves Lake Simcoe: Little Lake (Vespra)  Victoria: Balsam Lake Cameron Lake	1,000 1,000 1,000 500 500 500 1,000	Hastings:     Crow Lake  Northumberland:     Crow Bay     Trent River  Peterborough:     Chemong Lake     Clear Lake     Round Lake  Victoria:     Balsam Lake     Stump Lake (Pigeon	50,000 20,000 45,000 25,000 50,000 50,000 100,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake Hurd's Lake also called Hond's Lake Maves Lake Simcoe: Little Lake (Vespra)  Victoria: Balsam Lake Cameron Lake Pigeon Lake	1,000 1,000 1,000 500 500 500 1,000 2,000 1,000	Hastings:     Crow Lake  Northumberland:     Crow Bay     Trent River  Peterborough:     Chemong Lake     Clear Lake     Round Lake  Victoria:     Balsam Lake     Stump Lake (Pigeon     River)     Sturgeon Lake	50,000 20,000 45,000 25,000 50,000 50,000 100,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake Hurd's Lake also called Hond's Lake Maves Lake Simcoe: Little Lake (Vespra)  Victoria: Balsam Lake Cameron Lake Pigeon Lake Round Lake	1,000 1,000 1,000 500 500 1,000 1,000 1,000 1,000	Hastings:     Crow Lake  Northumberland:     Crow Bay     Trent River  Peterborough:     Chemong Lake     Clear Lake     Round Lake  Victoria:     Balsam Lake     Stump Lake (Pigeon     River)	50,000 20,000 45,000 25,000 50,000 50,000 100,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake Hurd's Lake also called Hond's Lake Maves Lake Simcoe: Little Lake (Vespra)  Victoria: Balsam Lake Cameron Lake Pigeon Lake	1,000 1,000 1,000 500 500 500 1,000 2,000 1,000	Hastings:     Crow Lake  Northumberland:     Crow Bay     Trent River  Peterborough:     Chemong Lake     Clear Lake     Round Lake  Victoria:     Balsam Lake     Stump Lake (Pigeon     River)     Sturgeon Lake  PICKEREL  Addington:	50,000 20,000 45,000 25,000 50,000 50,000 100,000 50,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake Hurd's Lake also called Hond's Lake Maves Lake Simcoe: Little Lake (Vespra)  Victoria: Balsam Lake Cameron Lake Pigeon Lake Round Lake Sturgeon Lake	1,000 1,000 1,000 500 500 1,000 1,000 1,000 1,000	Hastings:     Crow Lake  Northumberland:     Crow Bay     Trent River  Peterborough:     Chemong Lake     Clear Lake     Round Lake  Victoria:     Balsam Lake     Stump Lake (Pigeon     River)     Sturgeon Lake  PICKEREL  Addington:     Beaver Lake	50,000 20,000 45,000 25,000 50,000 50,000 100,000 50,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake Hurd's Lake also called Hond's Lake Maves Lake Simcoe: Little Lake (Vespra)  Victoria: Balsam Lake Cameron Lake Pigeon Lake Round Lake Sturgeon Lake Waterloo:	1,000 1,000 1,000 500 500 500 1,000 1,000 1,000 1,000 2,000	Hastings:     Crow Lake  Northumberland:     Crow Bay     Trent River  Peterborough:     Chemong Lake     Clear Lake     Round Lake  Victoria:     Balsam Lake     Stump Lake (Pigeon     River)     Sturgeon Lake  PICKEREL  Addington:	50,000 20,000 45,000 25,000 50,000 50,000 100,000 50,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake Hurd's Lake also called Hond's Lake Maves Lake Simcoe: Little Lake (Vespra)  Victoria: Balsam Lake Cameron Lake Pigeon Lake Round Lake Sturgeon Lake Waterloo: Conestoga Stream	1,000 1,000 1,000 500 500 500 1,000 1,000 1,000 2,000 1,000	Hastings:     Crow Lake  Northumberland:     Crow Bay     Trent River  Peterborough:     Chemong Lake     Clear Lake     Round Lake  Victoria:     Balsam Lake     Stump Lake (Pigeon     River)     Sturgeon Lake  PICKEREL  Addington:     Beaver Lake     White Lake	50,000 20,000 45,000 25,000 50,000 50,000 100,000 50,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake Hurd's Lake also called Hond's Lake Maves Lake Simcoe: Little Lake (Vespra)  Victoria: Balsam Lake Cameron Lake Pigeon Lake Round Lake Sturgeon Lake Round Lake Sturgeon Lake Conestoga Stream River Nith	1,000 1,000 1,000 500 500 500 1,000 1,000 1,000 1,000 1,000 1,000	Hastings:     Crow Lake  Northumberland:     Crow Bay     Trent River  Peterborough:     Chemong Lake     Clear Lake     Round Lake  Victoria:     Balsam Lake     Stump Lake (Pigeon     River)     Sturgeon Lake  PICKEREL  Addington:     Beaver Lake     White Lake  Algoma:	50,000 20,000 45,000 25,000 50,000 50,000 100,000 50,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake Hurd's Lake also called Hond's Lake Maves Lake Simcoe: Little Lake (Vespra)  Victoria: Balsam Lake Cameron Lake Pigeon Lake Round Lake Sturgeon Lake Waterloo: Conestoga Stream	1,000 1,000 1,000 500 500 500 1,000 1,000 1,000 2,000 1,000	Hastings:     Crow Lake  Northumberland:     Crow Bay     Trent River  Peterborough:     Chemong Lake     Clear Lake     Round Lake  Victoria:     Balsam Lake     Stump Lake (Pigeon     River)     Sturgeon Lake  PICKEREL  Addington:     Beaver Lake     White Lake  Algoma:     Basswood Lake, also called	50,000 20,000 45,000 25,000 50,000 50,000 100,000 50,000 150,000 250,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake Hurd's Lake also called Hond's Lake Maves Lake Simcoe: Little Lake (Vespra)  Victoria: Balsam Lake Cameron Lake Pigeon Lake Round Lake Sturgeon Lake Round Lake Conestoga Stream River Nith Grand River	1,000 1,000 1,000 500 500 500 1,000 1,000 1,000 1,000 1,000 1,000	Hastings:     Crow Lake  Northumberland:     Crow Bay     Trent River  Peterborough:     Chemong Lake     Clear Lake     Round Lake  Victoria:     Balsam Lake (Pigeon     River)     Sturgeon Lake  PICKEREL  Addington:     Beaver Lake     White Lake  Algoma:     Basswood Lake, also called     Waquikobing Lake	50,000 20,000 45,000 25,000 50,000 50,000 100,000 50,000 150,000 125,000
Lovesick Lake Oak Lake Round Lake Renfrew: Andrews Lake, also called Rosebank Lake Gould Lake Hurd's Lake also called Hond's Lake Maves Lake Simcoe: Little Lake (Vespra)  Victoria: Balsam Lake Cameron Lake Pigeon Lake Round Lake Sturgeon Lake Round Lake Sturgeon Lake Conestoga Stream River Nith	1,000 1,000 1,000 500 500 500 1,000 1,000 1,000 1,000 1,000 1,000	Hastings:     Crow Lake  Northumberland:     Crow Bay     Trent River  Peterborough:     Chemong Lake     Clear Lake     Round Lake  Victoria:     Balsam Lake     Stump Lake (Pigeon     River)     Sturgeon Lake  PICKEREL  Addington:     Beaver Lake     White Lake  Algoma:     Basswood Lake, also called	50,000 20,000 45,000 25,000 50,000 50,000 150,000 150,000 125,000 50,000

Pickerel—Continued	Leeds:
Algoma—Cont.	Bass Lake 100,000 Green's Lake, also called
Gordon Lake 125,000	Red Horse Lake 100,000
Keichel Lake         300,000           Little Clear Lake         125,000	Rideau Lake 1,500,000 Sand Lake 100,000
Mississauga River 1,000,000	Sand Lake 100,000
Rock Lake 125,000	Lincoln:
St. Mary's River 2,500,000	Twelve Mile Creek 500,000
Bruce:	Manitoulin:
Boat Lake	Mudge Bay 500,000
Lake Isaac	Muskoka:
Carleton:	Allan's Lake
Ottawa River 900,000	Axe Lake
Rideau River 750,000	Brandy Creek, also called
Durham:	Sucker Creek 50,000 Leonard Lake 100,000
Rice Lake 2,000,000	Mootes Lake 50,000
Frontenac:	Muskoka Lake
Bass Lake, also called	Riley Lake
Victoria Lake 200,000	Six Mile Lake 500,000
Bull Lake	Sparrow Lake2,000,000 eggs
Gull Lake 500,000	Nipissing:
Loughborough Lake 500,000	Jumping Caribou Lake 150,000
Mississagagon Lake 250,000 Sharbot Lake 200,000	Lake Timagami 2,000,000 Morton Lake 250,000
Seeley's Bay 500,000	Nosbonsing Lake 500.000
Thirteen Island Lake 200,000	Red Cedar Lake 250,000
Grey:	Talon Lake         250,000           Tilden Lake         100,000
Saugeen River 250,000	Tomiko Lake 300,000
Haliburton:	Trout Lake (Widdifield) 250,000 Turtle Lake 200,000
Long Lake (Lutterworth). 50,000	Wickstead Lake 250,000
Paudash Lake 500,000	Wilson Lake 100,000
Hastings:	Northumberland:
Bear Lake (Limerick) 100,000 Deer River 100,000	Crow Bay 200.000
Hog Lake	Crow River 500,000
Lakeview Lake 150,000	Trent River
Latta's Creek, also called Moira, or Sayer's River. 150,000	Ontario:
Malord's Lake 100,000	Lake St. John 200,000
Papineau Creek 250,000 Salmon Trout Lake, also	Parry Sound:
called Bartlett's Lake 150,000	Crawford, or Otter Lake 50,000
Tongamong Lake 250,000	Ahmic Lake
Kenora:	Bass Lake (Patterson) 200,000
Big Vermilion Lake 5,000,000	Boundry Lake 200,000
Eagle Lake	Chain of Lakes (Monteith) 150,000 Commanda Lake 200,000
Marchington Lake 2,000,000	Crane Lake 200,000
Stanzihikimi Lake 2,000,000 Lake of the Woods26,000,000	Deer Lake, also called Wah-Wash-Kesh
	(McKenzie) 300,000
Lanark:	Deer Lake, also called
Beaver Lake	Doe Lake 300,000
Black Lake 100,000	Dogfish Lake
Christie Lake	Georgian Bay 2,000,000 Jack's Lake, also called
Pipe Lake 150,000	Murphy's Lake, and Ratz
White Lake also called Wabalak Lake 500,000	Bay 50,000 Isabella Lake 100,000
Wasaian Dane 500,000	Isasciia Banc 100,000

PICKEREL—Continued	Thunder Bay: Lake Shebandowan2,000,000
Parry Sound—Cont.	
Kagiwong, also called Pick-	Temiskaming:
erel River or Dollar Lake 100,000	("C" indicates Cochrane District) C. Barbers Bay 250,000
Lake	C. Barbers Bay
Oastler's Lake 100.000	C. Big Water Lake 200,000
Otter Lake (Foley) 250,000	C. Reid Lake 50,000
Portage Lake 250,000	Sesekinika Lake 500,000
Rainy Lake 50,000 Restoule Lake 200,000	Lake Temiskaming 500,000 C. Wilson Lake 50,000
Sequin River 200,000	C. Wilson Dake 50,000
Shawanaga Lake 250,000	Victoria:
Stormy Lake 100,000	Little Mud Turtle Lake 100,000
Whitestone Lake 200,000	Mud Lake, or Dalrymple
Wilson Lake	Lake
200,000	Round Lake         50,000           Young's Lake         50,000
Peterborough:	104mg 5 124mc 50,000
Belmont Lake 500,000	Waterloo:
Chemong Lake 500,000 Deer Lake (Belmont) 100,000	Grand River 2,000,000
North River 450,000	Welland:
Oak Lake 200,000	Patterson Lake 500.000
Otonabee River, and	
Little Lake 300,000	Great Lakes:
Round Lake	Lake Huron16,700,000
Indian River 250,000	North Channel 5,000,000 Lake Superior14,425,000
Prince Edward:	
Bay of Quinte 2,250,000	BROWN TROUT
Rainy River:	FINGERLINGS
Beaverhouse Lake 100,000	Bruce:
Cleanweten an Dondatta	
Clearwater, or Burdette	Formosa Creek (Culross). 3,000
Lake	Formosa Creek (Culross). 3,000 Formosa Pond (Carrick). 2,000
Lake	Formosa Pond (Carrick). 2,000
Lake	Formosa Pond (Carrick). 2,000  Durham:
Lake	Formosa Pond (Carrick). 2,000  Durham: Baldwin's, or Wilmott's Creek
Lake	Formosa Pond (Carrick). 2,000  Durham:  Baldwin's, or Wilmott's  Creek
Lake	Formosa Pond (Carrick).         2,000           Durham:         Baldwin's, or Wilmott's           Creek
Lake	Formosa Pond (Carrick)         2,000           Durham:         Baldwin's, or Wilmott's           Creek         5,000           Baxter's Creek         5,000           Cavan Creek         5,000           Orono Creek, and Mill
Lake	Formosa Pond (Carrick).         2,000           Durham:         Baldwin's, or Wilmott's           Creek
Lake 2,000,000 Off Lake 1,000,000 Quill, or Feather Lake 2,000,000 Rainy Lake 82,900,000 Red Gut Bay 2,000,000 Windigoostigwan Lake, or Windigo Lake 500,000 Renfrew: Madawaska River 300,000 Norway Lake 150,000	Formosa Pond (Carrick). 2,000  Durham:  Baldwin's, or Wilmott's  Creek
Lake	Formosa Pond (Carrick). 2,000  Durham:  Baldwin's, or Wilmott's  Creek
Lake 2,000,000 Off Lake 1,000,000 Quill, or Feather Lake 2,000,000 Rainy Lake 82,900,000 Red Gut Bay 2,000,000 Windigoostigwan Lake, or Windigo Lake 500,000  Renfrew: Madawaska River 300,000 Norway Lake 150,000 Nakine Lake 200,000 White Lake 200,000	Formosa Pond (Carrick). 2,000  Durham:  Baldwin's, or Wilmott's  Creek
Lake       2,000,000         Off Lake       1,000,000         Quill, or Feather Lake       2,000,000         Rainy Lake       82,900,000         Red Gut Bay       2,000,000         Windigoostigwan Lake, or       500,000         Windigo Lake       500,000         Renfrew:       Madawaska River       300,000         Norway Lake       150,000         Nakine Lake       200,000         White Lake       200,000         York Branch River       250,000	Formosa Pond (Carrick). 2,000  Durham:  Baldwin's, or Wilmott's  Creek
Lake	Formosa Pond (Carrick). 2,000  Durham:  Baldwin's, or Wilmott's  Creek
Lake	Formosa Pond (Carrick)         2,000           Durham:         Baldwin's, or Wilmott's           Creek         5,000           Baxter's Creek         5,000           Cavan Creek         5,000           Orono Creek, and Mill         3,000           Grey:         Saugeen River         20,000           Snipe Creek         5,000           Sydenham River         5,000
Lake	Formosa Pond (Carrick)         2,000           Durham:         Baldwin's, or Wilmott's           Creek         5,000           Baxter's Creek         5,000           Cavan Creek         5,000           Orono Creek, and Mill         3,000           Grey:         Saugeen River         20,000           Snipe Creek         5,000           Sydenham River         5,000           Haldimand:         3,000           Grand River         3,000
Lake	Formosa Pond (Carrick)         2,000           Durham:         Baldwin's, or Wilmott's           Creek         5,000           Baxter's Creek         5,000           Cavan Creek         5,000           Orono Creek, and Mill         3,000           Grey:         Saugeen River         20,000           Snipe Creek         5,000           Sydenham River         5,000           Haldimand:         3,000           Hastings:         3,000
Lake 2,000,000 Off Lake 1,000,000 Quill, or Feather Lake 2,000,000 Rainy Lake 82,900,000 Red Gut Bay 2,000,000 Windigoostigwan Lake, or Windigo Lake 500,000  Renfrew: Madawaska River 300,000 Norway Lake 150,000 Nakine Lake 200,000 White Lake 250,000 Simcoe: Cook's Lake, or Farlan's Lake 250,000 Couchiching Lake 3,000,000 Little Lake (Vespra) 250,000 Matchedash Bay 2,300,000	Formosa Pond (Carrick)         2,000           Durham:         Baldwin's, or Wilmott's           Creek         5,000           Baxter's Creek         5,000           Cavan Creek         5,000           Orono Creek, and Mill         3,000           Grey:         Saugeen River         20,000           Snipe Creek         5,000           Sydenham River         5,000           Haldimand:         3,000           Grand River         3,000
Lake	Formosa Pond (Carrick)         2,000           Durham:         Baldwin's, or Wilmott's           Creek         5,000           Baxter's Creek         5,000           Cavan Creek         5,000           Orono Creek, and Mill         3,000           Grey:         Saugeen River         20,000           Snipe Creek         5,000           Sydenham River         5,000           Haldimand:         3,000           Hastings:         Squire's Pond         5,000
Lake	Formosa Pond (Carrick)         2,000           Durham:         Baldwin's, or Wilmott's           Creek         5,000           Baxter's Creek         5,000           Cavan Creek         5,000           Orono Creek, and Mill         3,000           Grey:         20,000           Saugeen River         20,000           Snipe Creek         5,000           Sydenham River         5,000           Haldimand:         3,000           Hastings:         Squire's Pond         5,000           Muskoka:         5,000
Lake	Formosa Pond (Carrick)         2,000           Durham:         Baldwin's, or Wilmott's           Creek         5,000           Baxter's Creek         5,000           Cavan Creek         5,000           Orono Creek, and Mill         3,000           Grey:         Saugeen River         20,000           Snipe Creek         5,000           Sydenham River         5,000           Haldimand:         3,000           Hastings:         Squire's Pond         5,000
Lake 2,000,000 Off Lake 1,000,000 Quill, or Feather Lake 2,000,000 Rainy Lake 82,900,000 Red Gut Bay 2,000,000 Windigoostigwan Lake, or Windigo Lake 500,000  Renfrew: 300,000 Norway Lake 150,000 Nakine Lake 200,000 White Lake 200,000 York Branch River 250,000 Simcoe: 250,000 Couchiching Lake 250,000 Little Lake (Vespra) 250,000 Matchedash Bay 2,300,000 Nottawasaga Bay 750,000 Severn River (Gloucester Pool) 2,000,000 Sudbury:	Formosa Pond (Carrick). 2,000  Durham:     Baldwin's, or Wilmott's     Creek
Lake	Formosa Pond (Carrick). 2,000  Durham:     Baldwin's, or Wilmott's     Creek
Lake	Formosa Pond (Carrick). 2,000  Durham:     Baldwin's, or Wilmott's     Creek
Lake	Formosa Pond (Carrick)         2,000           Durham:         Baldwin's, or Wilmott's           Creek         5,000           Baxter's Creek         5,000           Cavan Creek         5,000           Orono Creek, and Mill         3,000           Grey:         20,000           Saugeen River         20,000           Snipe Creek         5,000           Sydenham River         5,000           Haldimand:         3,000           Hastings:         Squire's Pond         5,000           Muskoka:         Sage Creek         5,000           Sharp's Creek         5,000           Norfolk:         Brown Creek:         3,000
Lake	Formosa Pond (Carrick). 2,000  Durham:     Baldwin's, or Wilmott's     Creek
Lake	Formosa Pond (Carrick)         2,000           Durham:         Baldwin's, or Wilmott's           Creek         5,000           Baxter's Creek         5,000           Cavan Creek         5,000           Orono Creek, and Mill         3,000           Grey:         20,000           Saugeen River         20,000           Snipe Creek         5,000           Sydenham River         5,000           Haldimand:         3,000           Hastings:         Squire's Pond         5,000           Muskoka:         Sage Creek         5,000           Sharp's Creek         5,000           Norfolk:         Brown Creek:         3,000
Lake	Formosa Pond (Carrick). 2,000  Durham:     Baldwin's, or Wilmott's     Creek
Lake	Formosa Pond (Carrick)         2,000           Durham:         Baldwin's, or Wilmott's           Creek         5,000           Baxter's Creek         5,000           Cavan Creek         5,000           Orono Creek, and Mill         3,000           Grey:         20,000           Saugeen River         20,000           Snipe Creek         5,000           Sydenham River         3,000           Haldimand:         3,000           Hastings:         3,000           Muskoka:         5,000           Sage Creek         5,000           Norfolk:         3,000           Norfolk:         3,000           Northumberland:         3,000           Northumberland:         3,000

BROWN TROUT—Continu	ıed	Haliburton:
Peterborough:		Boskung Lake 20,000 Davis Lake 5,000
Dickson's Creek	3,000	Devil's Lake 15,000
Jack's Creek	5,000	Drag Lake 20,000
ouch b orcon in the contract of	0,000	Gull Lake 30,000
Temiskaming:		Paudash Lake 15,000
Larder Lake	10,000	Pine Lake 10,000
		Twelve Mile Lake 10,000
Waterloo:		Sheldon's Lake 5,000
Grand River	5,000	
		Hastings:
ADULTS		Baptiste Lake 50,000
Carleton:		Big Salmon Lake 5,000
Rideau River (from Ottawa		Eagle Lake 15,000
Exhibition)	6	Jamieson Lake
, , , , , , , , , , , , , , , , , , , ,		John's Lake 10,000 Hardwood Lake 10,000
YEARLINGS		Papineau Lake 10,000
		Salmon Lake 5,000
Brant:	1 000	St. Peter Lake 15,000
Branch Creek	1,000	Sylva Lake 5,000
Drugot		Tongamong Lake 15,000
Bruce: Vogt's, or Adamsville Creek	1,000	Weslemkoon Lake 30,000
voges, or Adamsvine Creek	1,000	
Elgin:		Leeds:
Little Otter River	1.000	Red Horse Lake 25,000
	•	Rideau Lake 150,000
Grey:		
Beaver River	1,000	Muskoka:
Big Head River	1,000	Mary Lake 25,000
Sydenham River	1,000	Niniggings
		Nipissing: Morton Lake 50,000
Halton:		Red Cedar Lake 50,000
Sixteen Mile Creek	500	Sturgeon Lake 25,000
		Trout Lake 50,000
Hastings:		Turtle Lake 15,000
Rawdon's Creek	1,000	1 1 1
		Parry Sound:
Waterloo:	0.00	Sollman Lake 25,000
Bridgeport Mill Dam	300	
Fisher Mill Creek	$\begin{smallmatrix}700\\100\end{smallmatrix}$	Peterborough:
Experimental purposes	100	Belmont Lake 15,000
Wellington:		Loon Lake 15,000
River Speed	500	Trout Lake 10,000
Tittor Spood IIIIIIII		Renfrew:
York:		Lake Clear 25,000
Humber River	550	nake olear
		Thunder Bay:
* . **** O .****		Lake Nipigon 50,000
LAKE TROUT		
$\mathbf{FRY}$		York:
FRI		Lake Simcoe 100,000
Addington:		Quest I alread
Black Lake	10,000	Great Lakes: Lake Ontario 767,000
White Lake	25,000	Lake Ontario
**		North Channel 1,000,000
Frontenac:	10.000	Lake Superior 4,251,034
Buck Lake	10,000	114110 Eurottol 1111111111 1,111111
Dog Lake	$\begin{smallmatrix}25,000\\15,000\end{smallmatrix}$	FINGERLINGS
Grindstone Lake	5,000	Algomes
Loughborough Lake	30,000	Algoma: Achigan Lake 30,000
Mississagagon Lake	25.000	Basswood, or Waquikobing
Schooner Lake	25,000	Lake
Sharbot Lake	20,000	Chub Lake 15,000
Trout Lake, or Palmerston	~0,000	Clear, or Wakomata Lake. 50,000
Lake	25,000	Cummings Lake 15,000
	•	

LAKE TROUT—Continu	ed	Parry Sound:	10000
		Bay Lake	10,000
Algoma—Cont.		Clear Lake (Perry)	15,000
Deep Lake	10,000	Deer Lake	10,000
Diamond Lake	5,000	Georgian Bay	4,520,000
Hawk Lake	10,000	Horseshoe Lake, or	
Hobon Lake	15,000	Pak-She-Gong-Ga	10,000
Jobammeghia, or Boundry		Maple Lake	15,000
Lake	25,000	Otter Lake	15,000
Lake of the Mountains	20,000	Round Lake	10,000
Long Bear Lake	30,000	Salmon Lake	25,000
Loon, or Northland Lake	00,000	Sand Lake	15,000
(Deroche)	10,000	Sucker Lake	10,000
	25,000	Spring Lake	15,000
Magog, or Granny Lake	15.000	Three Legged Lake	25,000
Patton Lake	10,000	Three negged nake	20,000
Pickerel Lake		Rainy River:	
Sand, Lake	30,000		E0.000
Trout Lake (Aweres)	10,000	Steeprock Lake	50,000
Trout Lake (24-R-12)	25,000	O 41	
Upper Island Lake	5,000	Sudbury:	<b>4 7</b> 0.00
		Ella Lake	15,000
Bruce:		Loon Lake, or Borden Lake	15,000
Gillies Lake	50,000	Lake Penage	40,000
diffice Zano		Ramsay Lake, or Lost	
Haliburton:		Lake	50,000
Bear Lake (Livingstone)	10,000	Windy Lake	25,000
Clearwater, or Hardwood	10,000	·	•
	5,000	Thunder Bay:	
Lake (Cariford)		Oliver Lake	10.000
Crooked Lake (Guilford).	15,000	White Lake and River	25,000
East Lake	5,000	White Bane and Ittier.	20,000
Raven Lake	10,000	Temiskaming:	
Spruce Lake	5,000		5 000
		Crystal Lake	5,000
Kenora:		Larder Lake	1,600
Big Vermilion Lake	50,000	Nellie Lake	10,000
Dogtooth Lake	50,000	Perry Lake	10,000
Eagle Lake	50,000	Rib Lake	10,000
Gun Lake	25,000	Sesekinika Lake	15,000
	895,000	Lake Temiskaming	25,000
Lake of the Woods		Watabeag Lake	20.000
Minnitaki Lake	50,000		•
Red Deer Lake	25,000	Great Lakes:	
Silver Lake	50,000	Lake Superior	680,000
Trout Lake (Pellatt)	15,000	North Channel	100,000
Vermilion (Little) Lake	25,000	Lake Huron	6 555 000
		name iluion	0,000,000
Lanark:		LANDLOCKED SALMO	) X
Pike Lake	15,000		<i>J.</i> N
		YEARLINGS	
Leeds:		Bruce:	
Charleston Lake	50,000	. Gillies Lake	1,500
Marabalan		Grey:	
Muskoka:	<b>4000</b>	Bass Lake	1,000
Bruce's Lake	10,000	Mary Lake	310
Clear Lake (Ridout)	15,000		0-0
Haley's Lake	10,000	Muskoka:	
Lake Rosseau	50,000	Skeleton Lake	1,500
Lake of Bays	25,000	Fairy Lake	750
Muskoka Lake	10,000	Muskoka River	1,180
Skeleton Lake	25,000	Peninsula Lake	
St. Mary's Lake, or Paint	,	Dino Loko	750
Lake	5,000	Pine Lake	1,250
	0,000	Niniagings	
Niniaging:		Nipissing:	4 700
Nipissing:	05 000	Trout Lake	1,700
Bear Lake	25,000	G 31	
Camp Lake	10,000	Sudbury:	
Lake Timagami	200,000	Wahnapitae Lake	1,700
Oxbow, or Fatty's Lake	15,000		
Tasso Lake	15,000	York:	
Trout Lake (Widdifield)	2,400	Lake Simcoe	2,000

KAMLOOPS TROUT		SPECKLED TROUT	
FINGERLINGS		FRY	
Algoma: Constance Lake Trout Lake (Aweres)  YEARLINGS	42,464 43,000	Haliburton: Fletcher Lake Hollow River Slipper Lake Wolf Lake	100,000 50,000 20,000 15,000
Muskoka: Echo Lake	7,796	Hastings: Baptiste Lake Bear Creek (Dungannon).	100,000 5,000
Nipissing: Bloom Lake	3,000	Diamond Lake Egan Creek Lake St. Peter	$15,000 \\ 10,000 \\ 100,000$
RAINBOW TROUT		Muskoka: Bella Lake	80,000
		Dotty's Lake	50,000
Bruce: Teeswater River—Little Dam	5,000	Echo Lake Lake of Bays Loon Lake Creek	20,000 450,000 10,000 50,000
Dufferin: Pine River	4,000	Muskoka River Rebecca Creek Rill Lake	150,000 75,000 7,000
Elgin: Howes Pond St. Thomas City Reservoir.	$\begin{smallmatrix}575\\20,000\end{smallmatrix}$	Shoe Lake (Ridout Tp.) Skeleton Lake Tooke's Lake St. Mary's Lake	10,000 50,000 25,000 50,000
Grey: Leake's Pond	1,500	Nipissing:	
Minke's Lake	5,000	Oxbow Lake	25,000
Sheppard's Lake Stewart's Lake	$8,000 \\ 5,000$	Parry Sound:	
Sydenham River	5,000	Barrett's Creek Cottingham Creek	$15,000 \\ 10,000$
Townsend's Lake	1,500	Deer Lake (Perry Tp.)	10,000
Leeds:		James Creek Lynx Lake	$10,000 \\ 15,000$
South Lake	3,000	Poole Lake	15,000
Nonfalls		Magnetawan River Ragged Creek	$50,000 \\ 15,000$
Norfolk: Black Creek	12,500	Rat Lake	5,000
		Scharnehorn Lake	25,000
Simcoe: Bear Creek	4,000	Peel:	
Brough's Creek	5,000	Humber River	$\frac{6,000}{2,000}$
Coldwater River Sturgeon River	$\substack{11,500\\6,500}$	(Saic)	2,000
	0,000	FINGERLINGS	
York: Doan's Pond	5,000	Algoma:	
Humber River	13,000	Achigan Lake	10,000
Lake Simcoe	13,000	Agawa Lake	50,000 $7,000$
Private waters (Sales)	5,000	Anjigami Creek	10,000
		Batchewana River Bellevue Creek	$\frac{15,000}{5,000}$
YEARLINGS AND ADUI	LTS	Boundry Lake	5.000
Carleton:		Boyles Creek Bridgeland River	$\frac{3,000}{29,500}$
Rideau River	6	Caldwell's Lake	5,000
Thunder Bay:		Camp 8 Creek	$10,000 \\ 10,000$
Mirror Lake	3	Centre Lake	5,000
Vanle		Chub Lake	15,000
York: Humber River	5	Chippewa River Driving, or Victoria Creek	$\frac{45,000}{15,000}$
Private waters (Sales)	300	Foot Lake	5,000

SPECKLED TROUT—Cont	inued	Mullins Pond	3,000
A Gamb		Spring Creek (Carrick Tp.)	2,000
Algoma—Cont.	10.000	Spring Creek (Amabel Tp.)	15,000
Garden River	7,500	Sparrows Creek	2,000
Gavar Lake	35,000	Dufferin:	
Gravel River	8,730	Beaver Meadow Stream	5,000
Harmony River	10,000	Butler's Creek	10,000
Havilah Lake	5,000	Caldwell Creek	2,000
Hawk Lake	10,000	Pine River	15,000
Hoath Lake	5,000		,
Hobon Lake	15,000	Durham:	
Hubert Lake	16,000	Allen's Creek	1,000
Island Lake	10,000	Ard's Creek	500
Jackfish Lake	5,000	Arnott's Creek	10,000
Jobammeghia Lake	15,000	Best's Stream	5,000
Kennedy Lake	5,000	Brinscombe Creek	1,000
Lavar Lake	1,000	Butter's Creek	500
Loon Lake (24-R-13)	10,000	Cavan Creek	15,000
Loon Lake (Kirkwood)	10,000	DeLong Creek	5,000
Loon Lake (Deroches) Loon Lake Creek	$\substack{10,000\\5,000}$	Jamieson Pond	$\frac{3,000}{2,000}$
Loonskin Lake	15,000	Harris Creek	5,000
Mashagami Lake	20,000	Ganaraska River	5,000
Michipicoten River	15,000	Gardner's Pond	7,000
Mile 58 Lake	5,000	Mercer's Pond	3,200
Mongoose Lake (25-R-14)	10,000	McKindley's Creek	5,000
Moose Lake (25-R-13)	10,000	McLaughlin Creek	4,000
Mountain Lake	5,000	Nicholson Creek	1,000
McCormack Lake	5,000	Orono Creek	500
McIntyre Lake	1,000	Rutherford's Creek	1,000
McVeigh Creek	20,000	Smith's Creek	3,000
One Lake	5,000	Snowden's Creek	2,500
Peak Lake	$\substack{5,000\\7.000}$	Elain .	
Pine, or Prugh Lake	7,000	Elgin: Ball Creek	20.000
(24-R-12)	7,000	Goodwillie Creek	5,000
Pinkney Lake	5,000	Orange Hall Creek	5,000
Reserve Lake	10,000	orange ran oron	0,000
Sand Lake Creek	15,000	Frontenac:	
Sand River	15,000	Trout Lake	50,000
Scarbo Lake	5,000	White Lake (Bedford)	
Snowshoe Creek	7,000	Creek	2,500
Speckled Trout Lake	10,000	G	
Speckled Trout Pond	2,500	Grey:	F 000
Spruce Lake St. Mary's River	$\begin{smallmatrix}10,000\\25,000\end{smallmatrix}$	Bell's Creek	5,000 $5,000$
Tamarack, or Quintnel	25,000	Big Head River	50,000
_ Lake	5,000	Camps Creek	5,000
Tawabinasay Lake	10,000	English Lake	15,000
Triple Lake	5,000	Gardner Lake	15,000
Trout Lake (Aweres)	15,000	Glen Creek	20,000
Trout Lake (24-R-12)	2,000	Hydro Waters (Eugenia	·
Upper and Lower Twin		Pond)	3'0,'0'0
Lakes	10,000	Maxwell Creek	10,000
Unnamed stream (Shields	7 000	Miller Creek	5,000
Tp.)	7,000	Morton's Creek	5,000
Walker Lake	$\frac{10,000}{5,000}$	Pepper's Creek	$6,000 \\ 10,000$
Wallace Lake	5,000 $5,000$	Priddle's Spring Creek Rob Roy Creek	10,000
Waterhole Lake	10,000	Rocky Saugeen River	10,000
Wartz Lake	20,000	Saugeen River	55,000
White River	50,000	Sydenham River	35,000
Winchell Lake	1,000	Trout Creek (Sydenham).	25,000
Wyel Lake	1,000	Williams Lake	10,000
Brant:		Hallburton	
Moody and Lyons Creeks.	5 000	Haliburton: Bear Creek (Glamorgan).	5,000
moody and Lyons Creeks.	5,000	Blue Lake	5,000
Bruce:		Hollow Lake	100.000
Judges Creek	20,000	Kimball Lake	30,000
	,		

SPECKLED TROUT—Cont	inued	Nipissing:	
		Anderson Lake	5,000
Haliburton—Cont.	4 0 0 0 0	Black Creek	5,000
McCue Creek	10,000	Chippewa Creek	7,500
McFadden's Lake	15,000	Clear Lake	5,000
Otter Lake	25,000	Dorans Creek	7,500
Percy Lake	25,000	Duschene Creek	7,500
Ross Lake	5,000	Four Mile Creek	7,500
-Round Lake	30,000	George Lake	5,000
Spring Lake (Livingstone)	10,000	Giroux Creek	3,000
		Hoover's Lake	7,000
Hastings:		Lake Timagami	30,000
Baptiste Lake	75,000	Mosquito Creek	7,500
Brett's Lake	5,000	McCarty Creek	5,000
Cedar Creek	15,000	Nelson Lake	10,000
Crooked Lake	50,000	Noble Creek	10,000
Diamond Lake	15,000	North River	15,000
Echo Lake	75,000	Oxbow Lake	25,000
Egan Creek	20,000	Poor Man's Creek	5,000
Fraser Creek	15,000	Robert Creek	5,000
Geen's Creek	10,000	Toad Lake	10,000
Green's Lake	20,000	Tomiko Lake	7,500
Hick's Lake	25.000	Traverse Creek	6,000
Little Papineau Creek	10,000	White Partridge Creek	9,000
Long Lake	25,000		
Squire's Creek	7,000	Norfolk:	1
St. Peter Lake	75,000	Clear Creek	2,500
Trout Creek (Rawdon Tp.)	5,000	Mather Creek	2,500
Trout Greek (Rumada Ipi)	0,000	Nanticoke Creek	10.000
Huron:		Venison Creek	
Porter's Creek	7.000	venison Greek	20,000
Stoney, or Coates' Creek	2,000		
Stoney, or coures orcen	_,000	Northumberland:	
Kenora:		Baltimore Creek	7,500
Harris River	5,000	Beaman Creek	5,000
mains mivel	0,000	Big Creek	1,835
Lennox-Addington:		Black's Creek	6,800
Beaver Creek	15,000	Bowen's Pond	5,000
Deaver Creek	15,000	Brighton Mill Creek	4,000
Manitoulin:		Burnley Stream	17,500
Blue Jay River	6.000	Chidley's Creek	2,500
	6,000	Dartford Creek	7,500
Manitou River	25,000	Duncan Creek	2,500
Mindemoya River	25,000	Heffernan's Creek	2,000
Middlegov		Little Cole's Creek	10,000
Middlesex:	2 500	Mill Pond	10,000
Centre Road Creek	2,500	McComb's Creek	7,500
		Piper Creek	2,500
Muskoka:	0.500	Quinn's Creek	2.500
Beaver Creek	2,500	Robin's Creek	2,500
Big East River	7,500	Salt. or Dawson Creek	15,000
Buck Lake	15,000	Sandy Flats Creek	15,000
Clear Lake	95,000	Simpson Creek	5,000
Crotch Lake	20,000		5,000
Eighteen Mile Lake	30,000	Smithfield Creek	2,500
Fairy Lake	50,000	Taylor Creek	10.000
Grindstone Lake	10,000	Trout Creek	2,500
Martin Lake	7,000	Valleau Creek	5,000
Muskoka River	15,000	Woodland Creek	5,000
Lake Vernon	100,000		
Little East River	12,000	Ontario:	
Peninsula Lake	75,000	Black Creek	9,000
Poverty Lake	2,500	Chubtown Creek	12,000
Red Chalk Lake	10,000	Elgin Pond, or lake	6,000
Split Rock Lake	2,500	Glenhodson Creek	2,500
Spring Creek (Watt Tp.).	1,000	McLean's Creek	3,000
Wolf Lake	5,000		
Miscellaneous streams run-		Oxford:	
ning into Lake of Bays,			
Mary Lake, Fairy Lake,		McCabe's Creek	500
Peninsula Lake, and Ver-		Sutherland's Pond and	9 000
non Lake	50,000	creek	2,000

SPECKLED TROUT—Conti	nued	Allen Creek	5,000 10,000
Parry Sound:		Anderson's Creek	2,000
Big Clam Lake	15,000	Anderson Lake	5,000
Canoe Lake	10,000	Bass Lake	5,000
Cashman's Lake	2,500	Bender Lake	2,000
Comfort Lake	6,000	Big Duck Creek	3,000
Deer River	25,000	Brule Creek	4,000
	100,000	Caribou Creek	4,000
Eagle Lake			
Genesee Creek	$\begin{array}{c} 15,000 \\ 25,000 \end{array}$	Caribou Island Lake	3,000
Lake Bernard	20,000	Charlotte Lake	5,000
		Clearwater Lake	3,000
Peel:	12 000	Corinne Lake	4,000
Credit River	13,000	Coldwater River	47,000
Spring, or Secret Creek	1,000	Cousineau Lake	5,000
		Current River	62,700
Peterborough:	F 000	Deep Lake	7,000
Buchanan's Creek	5,000	Deception Lake	7,000
North River	25,000	Echo Lake	5,000
Norwood Creek	3,000	Fox Lake	5,000
Ouse River	30,000	Fraser Creek	114,000
Otter Creek	5,000	Grange Lake	4,900
Plato Creek	15,000	Gravel Lake	6,000
Scott's Creek	5,000	Ham Lake	3,000
		Hilma Lake	5,000
Renfrew:	0.000	Kajander Lake	5,000
Benoit Lake	3,000	Kowkash and Squaw	
Black Donald Creek	10,000	Rivers	50,000
Birchim Lake	7,000	Loon Lake (McTavish)	15,000
Burns Lake	25,000	Loon Creek	1,500
Calhane Creek	10,000	Loftquist Lake	15,000
Christink Lake	10,000	Little Lake	5,000
: Dam Lake Creek	15,000	Mac's Lake	2,000
Dan's Lake	8,000	Mirror Lake	5,000
Dodge Lake	3,000	Moose Lake, near	
Dominic Lake	3,000	Schreiber	3,000
German Lake	5,000	Moose Lake, near Pearl	1,500
Gun Lake	5,000	McIntyre Creek	20,000
Highland Creek	15,000	McIntyre River	22,000
Johnson's Lake	$\frac{6,000}{9,000}$	McKenzie River	16,000
Little Madawaska River		McVicar's Creek	10,000
Lake Clear Lower and Upper Long	6,000	McVicar's Lake	5,000
Lake	15,000	Neebing River	10,000
Madawaska River	20,000	Nipigon Lake	100,000
Mason Lake	5,000	Nipigon River	164,000
McMaster Lake	6,000	Ninety Minute Lake Pitch Creek	$\frac{5,000}{6,000}$
Nadeau Creek	10,000	Pearl River	
Paddy's Lake	6,000		52,000
Petawawa River	12,000	Servais Lake	2,000
Rock Lake	4.000	Silver Lake Silver Islet Creek	5,000
Trout Lake (Head)	5.000		10,000
Young's Lake	5,000	Small McKenzie Lake	5,000
_	5,000	Strawberry Creek	9,500
Simcoe:		Sunset Lake	$\begin{array}{c} 7,000 \\ 5.000 \end{array}$
Creek in Tecumseh	5,000	Trout Lake (Gorham)	
Silver Creek	20,000	Twin Creek	2,000
		Twin Lake	1,000
Sudbury:		Webb Lake	10,000
Clear Lake	31,000	White River	$\substack{10,000\\3,000}$
Garson Creek	12,000	Wigan Lake	
Post Creek	10,000	Wideman Lake Whitewood Creek	$\frac{7,000}{6,000}$
Poulin Creek	15,000		
Sandcherry Creek	12,000	Wolf River	3,000
Trout Lake (Roberts Tp.)	20,000	m	
Trout Lake #6	5,000	Temiskaming:	
Veuve River	15,000	(Prefix "C" indicates Coch	nrane
		District)	
Thunder Bay:		Blanche River	5,000
Ada Lake	10,000	C. Charlebois Lake	5,000
Ann' Lake	10,000	C. Croft's Creek	5,000

SPECKLED TROUT—Conti	nued	YEARLINGS	
Temiskaming—Cont.		Algoma:	
Crooked Creek	5,000	Achigan Creek	1,000
C. Dandurant Creek	5,000	Bridgland River	1,000
Dickson Creek	2,500	Chub Lake	1,000
C. Dome Creek	2,500	Deer Lake	1,000
C. Fuller's Creek	7,500	Garden River	1,000
Gleason Creek	7,500	Gravel River	1,000
C. Grassy River		Harmony River	1,000
	7,500	Heyden Lake	1,000
Halfway Lake	5,000	Kaskowan River	1,000
C. Hooker Creek	5,000	Lower Island Lake	500
Johnston Lake	5,000	McLeod's Creek	1,000
Latour Creek	11,500	Pancake River	1,000
C. Legare Creek	5,000	Patton River	1,000
C. Metagami River	7,500	Skookum Lake	1,000
Munroe Lake	5,000	Trout Lake (Aweres)	1,000
C. McInytre Pond	2,500	Upper Island Lake	
Pike Creek	4,000	(Aweres)	500
C. Red Sucker Creek and		Upper Island Lake (176).	1,000
River	7,500	· FF · · · · · · · · · · · · · · · · ·	-,000
C. Rowley Lake	5,000	Grey:	
C. Ramsbottom Creek	5,000	Bell's Creek	1,000
Sesekinika Lake	7,500	Beaver River	1,000
C. Shaw's Creek	5,000	Board Hiver	1,000
Small Spot Creek	7,500	Norfolk:	
Spring Creek (Firstbrook)	4,500	Crane Creek	155
Watabeag River	15,000	Orane Oreek	100
C. Water Hen Creek	5,000	Ontario:	
	•	Glenhodson Creek	485
Waterloo:		Glennouson Creek	700
Elora Creek	10,000	Peel:	
Erbsville Creek	20,000	Humber River	8
Grand River	15,000	number itives	•
Jedburgh Dam	3,000	Thunder Bay:	
Groves Creek	10,000		7 0000
Mannheim Creek	20,000	Cedar Creek	1,000
Speed River	10,000	Current River	1,000
St. Jacob's Creek	3,000	Deception Lake	1,000
St. Jacob's Cleek	3,000	Ghost Lake	250
Welland:		Golden Gate Lake	300
Sulphur Springs	5,000	Loon Lake (McTavish)	1,000
Twelve Mile Creek	7.000	Lost Lake	1,000
I weive mile Creek	1,000	Mirror Lake	6,011
Wellington:		Mosquito Creek	1,000
	5,000	McIntyre River	1,000
Creek in Luther Twp		McVicars Creek	2,000
Ospringe Creek	5,000	Neebing River	1,000
Private Waters (Sales)	3,637		
Demonstration	29	Waterloo:	
		Private waters (Sales and	
ADULTS		demonstration)	212
Algoma:			
St. Mary's River	584		
Island Lake (Aweres Tp.)	764	WHITEFISH	
island Dake (Aweres 1p.)	104	WITTER	
Lanark:		Kenora:	
Paul's Creek	12	Eagle Lake	000 000
Tadis Oreck	1.2	Lake of the Woods 8,	500,000
Norfolk:		Bake of the Woods o,	500,000
Crane Creek	45	Manitoulin:	
Gravel Pit Pond	295	Bay Finn (McGregor Bay) 2,	000 000
Graver 11t 1 ond	233	Day Filli (McGregor Day) 2,	000,000
Northumberland:		Parry Sound:	
Marsh Creek (Yearlings		Georgian Bay82,	040 000
and Adults)	311	Georgian Day	0 10,000
and Addits;	011	Prince Edward:	
Thunder Bay:		Bay of Quinte92,	000.000
Mirror Lake	2.675	Day or wanter	,
Private waters (Sales and	2,010	Wentworth:	
demonstration)	734	Lake Ontario16,	180.000
demonstration,	101	Danc Ontario	_00,000

WHITEFISH—Continued  Great Lakes:     Lake Erie	Peterboro: Loon Lake (Chandos) 500,000  Prince Edward: Bay of Quinte36,760,000
296,482,000 HERRING	GOLDEN SHINERS  Frontenac: White Lake (Olden) 500
Frontenac: White Lake (Olden) 1,000,000	PERCH
Hastings:  Baptiste Lake	Great Lakes: Lake Erie53,031,400
Leeds: Charleston Lake 1,000,000 Rideau Lake 3,000,000	

#### APPENDIX No. 2

ONTARIO DEPARTMENT OF GAME AND FISHERIES DISTRIBUTION OF FISH ACCORDING TO SPECIES—1933 TO 1935, INCLUSIVE.

Trans. In	•	T T	1	1
- (14°)		1933	1934	1935-36
Large-mouthed Black Bass-	-Fry Fingerlings Yearlings & Adults	856	35,250 4,250 197	130,000 2,153 27
Small-mouthed Black Bass-	-Fry	545,000 25,750 3,471	365,500 35,750 420	696,000 153,065 3,435
Maskinonge-	Fry		909,500	460,000
Perch-	Fry		95,000,000	53,031,400
Pickerel—	Eyed Eggs	20,500,000	5,000,000 278,470,000	2,000,000 229,629,000
Brown Trout—	Fingerlings Yearlings Adults	483,016 674	138,000 14,500 689	109,000 9,650 6
Lake Trout—	Eyed Eggs Fry Fingerlings	200,000 1,400,000 16,012,700	402,000 1,265,000 14,045,450	7,773,034 14,564,000
Land-locked Salmon (Ouananiche)-	Yearlings			13,640
Rainbow Trout—	Eyed Eggs Fry Fingerlings Yearlings	27,016	$\begin{array}{c} 1,000 \\ 4,480 \\ 312,512 \\ 25,014 \end{array}$	134,075
Kamloops Trout-	-Fingerlings Yearlings			85,464 10,796
Speckled Trout-	Eyed Eggs Fry Fingerlings Yearlings Adults	$\begin{array}{c c} 506,000 \\ 725,000 \\ 5,950,255 \\ 28,237 \\ 1,549 \end{array}$	6,257,267 34,762 1,652	$\begin{array}{c c} 1,645,000 \\ 5,013,831 \\ 35,421 \\ 5,420 \end{array}$
Whitefish—	Fry	372,111,000	376,777,000	296,482,000
Herring-	Fry	22,805,000	17,512,000	43,760,000
Golden Shiners-	• • • • • • • • • • • • • • • • • • • •		7,000	500
TOTALS—		441,325,524	796,619,193	655,747,231

Note: The 1935-36 total does not include the distribution for the five months period—Nov. 1, 1934, to March 31, 1935.

#### **APPENDIX**

#### GAME AND FISHERIES

#### Statistics of the Fishing Industry in the Public Waters

#### EQUIP

District	No. of Men		Tug	(8		asoline aunches	Sail Row	l and Boats	Gill N	ets
		No.	Tons	Value	No.	Value	No.	Value	Yards	Value
Northern Inland Waters Lake Superior North Channel Georgian Bay Lake Huron Lake St. Clair Lake Erie Lake Ontario Southern Inland Waters	447 322 196 482 375 145 883 674 464	10 8 19 16  28 1	22 379 170 449 490  878 8	53,000 48,000 142,750 121,500 210,500	52 38 129 124 54 212	\$ 71,450 29,525 32,555 109,570 81,680 13,480 200,900 85,940 4,960	62 76 94 48 88 182	3,690 5,604 6,635 3,095 3,995 10,707	832,880	\$ 58,725 84,075 52,100 111,839 133,385  176,825 81,805
Potals	3,988	84	2,396	\$589,250	980	\$630,060	1,263	\$57,715	\$6,257,225	\$698,754

#### **APPENDIX**

#### QUANTITIES OF

District	Herring	Whitefish	Trout	Pike	Pickerel (Blue)	Pickerel (Dore)
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
Northern Inland Waters Lake Superior North Channel Georgian Bay Lake Huron Lake St. Clair Lake Erie Lake Ontario Southern Inland Waters	572 1,296,739 574 21,168 271,255 125 96,162 835,687 6,676	1,303,630 377,416 304,084 1,292,228 340,327 1,605 1,190,121 657,403 11,621	1,518,439 710,907 1,475,312 2,069,223 333 244,862	9,669 88,431 70,010 934 20,579 8,175	1,315 525 5,064,296 38,428	1,549,426 72,894 65,627 83,380 275,352 34,503 319,311 28,526 2,924
Totals	2,528,958	5,478,435	6,256,336	1,216,622	5,122,997	2,431,943
Values	\$126,447.90	\$602,627.85	\$688,196.96	\$72,997.32	\$256,149.85	\$267,513.73

No. 3

#### DEPARTMENT, ONTARIO

of Ontario, for the Year Ending December 31st, 1935.

#### MENT

	Seine I	Vets	Pour	d Nets	Hoor	Nets		p and l Nets	Night	Lines	Sr	ears		ezers & Houses	ł	ers and harves	Total Value
No.	Yards	Value	No.	Value	No.	Value	No.	Value	No. Hooks	Value	No.	Value	No.	Value	No.	Value	
5 1 46 55 14 61	500 80	9,440	42 34 110 86 120 112 590	10,485 49,100 80,700 84,200 11,635	39  14	520  306 15,460		2 40 229 274	29,046 19,690 2,550 3,450	4,635 2,070 170 74 218	3 17	82	150 36 43 60 68 30 114 33 37	21,525 12,305 15,875 24,475 9,175	46 34 61 29 10 80 29	\$ 14,670 11,185 13,875 33,380 8,710 1,650 51,235 5,005 286	213,485 213,561 506,661 459,145 45,034 1,101,912
182	\$35,120	\$22,052	1,094	552,930	1,074	22,439	106	\$ 545	70,946	\$7,657	210	\$1,624	571	\$263,478	416	\$139,996	\$2,986,500

#### No. 4

#### FISH TAKEN

Sturgeon	Eels	Perch	Tullibee	Catfish	Carp	Mixed Coarse	Caviare	Total	Value
lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	tbs.	
71 10,801 967 4,585 7,943		143,128	209,040 32,884 206,069 472,322	500 4,337	140 2,346 16,849 3,788 326,738 618,981 200,864	93,226 212,205 102,202 51,214 226,370 1,411,217 272,637	1,150 28 50 388 341 726 11	4,496,449 3,577,994 1,433,426 3,275,206 3,669,718 697,283 14,429,303 2,784,723 851,885	297,372.06 137,299.38 336,048.31 350,285.05 37,000.63
110,470	74,947	6,039,713	1,071,004	502,779	1,480,506	2,898,583	2,694	35,215,987	
\$44,188.00	\$5,246.29	<b>\$3</b> 01,985. <b>6</b> 5	\$64,260.24	\$40,222.32	\$74,025.30	\$86,957.49	\$2,694.00		\$2,633,512.90

# APPENDIX No. 5 COMPARATIVE STATEMENT OF THE YIELD OF THE FISHERIES OF ONTARIO

Kind	1934	1935	Increase	Decrease
	Pounds	Pounds		
Herring	2,876,121	2,528,958		347,163
Whitefish	4,922,996	5,478,435	555,439	
rout	5,295,174	6,256,336	961,162	
Pike	1,095,911	1,216,622	120,711	
Pickerel (blue)	2,432,093	5,122,997	2,690,904	
cickerel (dore)	2,292,094	2,431,943	139,849	
turgeon	89,884	110,470	20,586	ĺ
els	63,650	74,947	11,297	
erch	6,018,541	6,039,713	21,172	
ullibee	1,105,158	1.071.004		34.154
atfish	356,665	502,779	146.114	
arp	1,520,848	1,480,506	1	40,342
lixed and Coarse .	3,161,229	2,898,583		262,646
aviare	2,613	2,694	81	
	31,232,977	35,215,987	*3,983,010	••••••

<sup>\*</sup>Net Increase

#### APPENDIX No. 6

### STATEMENT OF YIELD OF THE FISHERIES OF ONTARIO 1935

KIND	Quantity Pounds	Price per Pound	Estimated Value
Herring Whitefish Trout Pike Pickerel (blue) Pickerel (dore) Sturgeon Eels Perch Tullibee Catfish Carp Mixed and Coarse Caviare	2,528,958 5,478,435 6,256,336 1,216,622 5,122,997 2,413,943 110,470 74,947 6,039,713 1,071,004 502,779 1,480,506 2,898,583 2,694	\$ .05 .11 .11 .06 .05 .11 .40 .07 .05 .06 .08 .05	\$ 126,447.90 602,627.85 688,196.96 72,997.32 256,149.85 267,513.73 44,188.00 5,246.29 301,985.65 64,260.24 40,222.32 74,025.30 86,957.49 2,694.00
TOTALS	35,215,987		\$2,633,512.90

#### APPENDIX No. 7

### ESTIMATED VALUE OF ONTARIO FISHERIES FOR A PERIOD OF TWENTY YEARS 1916-1935 INCLUSIVE

1916	 2,658,992.43	1926	2,643,686.28
1917	 2,866,424.00	1927	3,229,143.57
1918	 3,175,110.32	1928	3,033,944.42
1919	 2,721,440.24	1929	3,054,282.02
1920	 2,691,093.74	1930	2,539,904.91
1921	 2,656,775.82	1931	2,442,703.55
1922	 2,807,525,21	1932	2,286,573.50
		1933	
1924	 3,139,279.03	1934	2,316,965.50
1925	 2,858,854.79	1935	2.633,512.90

# Report

OF THE

# Game and Fisheries Department

FOR THE FIVE MONTHS' PERIOD ENDING MARCH 31st, 1935.

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 9, 1936



TO THE HONOURABLE HERBERT ALEXANDER BRUCE, a Colonel in the Royal Army Medical Corps, F.R.C.S. (Eng.), Lieutenant-Governor of the Province of Ontario.

#### MAY IT PLEASE YOUR HONOUR:

I have the honour to submit herewith for the information of Your Honour and the Legislative Assembly, Report of the Game and Fisheries Department of this Province for the Five Months' Period ended March 31, 1935.

I have the honour to be,

Your Honour's most obedient servant,

H. C. NIXON,

Minister in Charge,

Department of Game and Fisheries.

Toronto, April 2, 1936.

# Report of the Department of Game and Fisheries

#### - OF ONTARIO -

# For the Five Months Period ended March 31, 1935

TO: THE HONOURABLE H. C. NIXON,

Minister in charge,

Department of Game and Fisheries.

SIR:—I have the honour to place before you this Report of the activities of the Department of Game and Fisheries during the five months' period, commencing November 1st, 1934, and ending March 31st, 1935.

In this report it will, of course, be impracticable to attempt comparative statements for obvious reasons, though statistical tables for the period under review have been prepared and are incorporated herein.

#### **FINANCIAL**

The revenue collected by the Department amounted to \$258,348.04, and details of the various sources from which it was derived are as set forth in the subjoined table.

REVENUE FOR THE FIVE MONTH PERIOD ENDING MARCH 31, 1935

to the second se	
Licenses—	
Trapping\$	14,070.90
Non-resident Hunting	30,315.45
Deer	
Moose	2,194.50
Gun	39,564.72
Fur Dealers	14,536.00
Fur Farmers	5,585.00
Tanners	156.00
Cold Storage	

155,170.97

\$189,478.12

$\mathbf{FI}$	$_{ m SHI}$	CRI	ES—
---------------	-------------	-----	-----

Royalty .....\$ 1,101.67

Licenses-

Royalty ....

> \_\_\_\_\_ 57,745.42

GENERAL-		3
Guides' Licenses	370.00	
Fines	3,761.00	
Sales-Confiscated Articles, etc	3,696.84	
Rent	1,635.50	
Commission	849.87	
Miscellaneous	811.29	:
	2	

11,124.50

\$258,348.04

. 1 1 . .

Quite naturally, the game division brought in by far the greater percentage of this revenue,—fishing, and more particularly angling, by reason of the weather conditions which prevail during this period being very extensively curtailed. It will be of interest to state that this revenue exceeded the amount which it was estimated would be collected.

The exercise of judicious supervision over expenditures was very essential, and while the total in this respect amounted only to \$168,202.67, it is submitted that the various results achieved were creditable, and that the proportionately reduced expenditures did not noticeably interfere with the proper performance of Departmental activities or the provision of necessary services.

#### GAME

In all, some 18,767 licenses to hunt big game, i.e. deer and moose, were issued under the following divisions:—

Resident licenses to hunt deer	17,584
Resident licenses to hunt moose	399
Non-resident general licenses	397
Non-resident deer licenses	387

In addition we also issued some 317 non-resident licenses to hunt small game animals and birds.

The foregoing figures are an indication that the attractions which the game of this Province affords to the interested sportsman and hunter have a prominent place in our scheme.

A limited distribution of game birds was undertaken during this period,—417 English ring-necked pheasants and 597 Hungarian Partridge according to Departmental records being liberated in different sections of the Province in which suitable environment for these desirable species of game birds was available.

In the matter of Crown Game Preserves, while much preliminary work was done in connection with suitable areas which have been subsequently established as Game Preserves, in only one case, that of the Pond Mills Crown Game Preserve, in the County of Middlesex, was final action provided, and this was the only Crown Game Preserve established during the period under review.

#### **FUR**

Active trapping operations were, of course, carried on during this period, though it would include but a very short portion of the open season for the taking of muskrat, one of the principal mainstays of our trapping industry.

The following table will show the number of pelts of various fur-bearing animals taken by trapping and sold to licensed fur buyers, as well as the numbers exported from the Province and dressed within the Province respectively.

	Total Pelts	Pelts Exported	Pelts Tanned
Bear Beaver Fisher Fox (cross) Fox (red) Fox (silver black) Fox (white) Fox (not specified) Lynx	180 4,356 1,451 5,160 27,501 560 904 432 2,180	2,055 869 3,951 21,109 381 31 315 1,039	105 33 4 63 1,699 16 1 6
Marten Mink Muskrat Otter Raccoon Skunk Weasel Wolverine	62,162 28,340 2,439 11,919 48,204 36,904	574 53,606 12,762 1,066 5,764 23,243 26,975	12 1,171 15,002 6,036 16,124 433

Revenue from royalties actually received on the pelts exported and tanned, as indicated on the statement of revenue included in this Report amounted to \$34,307.15. This figure does not represent the total amount actually due, for the reason that the large fur companies operating numerous posts in the extreme northern portion of the Province, under an agreement with the Department, balance their fur royalty account at the end of the season, thus certain royalties due on pelts exported and tanned by these companies during the period under review were not received in the Department until after the expiration of this particular period.

Based on average prices which it is believed are reasonably accurate and fair, it has been estimated that for the pelts as shown in column 1 of the above table, trappers would receive from the sale thereof in all a total sum of \$1,024,888.28.

The previous table does not include pelts of silver, black and blue foxes raised on licensed fur farms, which are exempt from the payment of royalty. According to the fur records branch, 15,829 such pelts were exported and 1,587 tanned in the Province, and it has been estimated that in the case of these pelts, the sale of the same secured in excess of \$615,000.00 for the fur farmers responsible for producing the same.

#### FUR FARMING

Details of live animals stocked on licensed fur farms as at January 1st, 1935, together with similar figures for other years are tabulated below.

ANIMALS STOCKED ON LICENSED FUR FARMS
As at January 1st

	1933	1934	1935
Beaver Fisher Fox (cross) Fox (red) Fox (silver black) Fox (blue) Lynx Mink Muskrat Raccoon Skunk Bear Marten Badger	44 50 559 448 15,938 13 2 6,170 511 1,202 10 16 37	60 18 443 360 16,826 10 2 6,190 499 989 2 14 22	78 19 434 286 19,314 10 2 8,605 447 799 11

A

The number of Fur Farmers' licenses issued during the period was 1081, chiefly comprised of renewals of existing licenses which expired December 31st, 1934.

#### WOLF BOUNTIES

During the period the Department paid bounty in respect of 1,859 wolves, which is exactly the same number of pelts upon which bounty was paid during the preceding fiscal year. The basic rate of bounty was \$15.00 for an adult wolf and \$5.00 for a pup. In respect to wolves killed in any County, the bounty is paid by the County Treasurer and the Government rebates 40% of the amount to the County.

Details of	the expenditures incurred in this connection are	e as follows:—
1,787	adult wolves at \$15.00	\$26,805.00
	adult wolves at 6.00	
	pup wolves at 5.00	
x 2	pup wolves at 2.00	4.00
1,859	Amount of bounty	\$27,225.00
	Expenses	102.58
x Kille	Total Expenditures d in Counties.	\$27,327.58

#### **ENFORCEMENT**

It was encouraging to observe the improvement which has been evident in this particular division of our work. The services of the regular staff of Overseers maintained by the Department to secure observance of the provisions of the Game and Fisheries Act and Regulations was appreciably augmented by the co-operation which was provided by members of the Ontario Provincial Police Force, and which co-operation is now a permanent feature of this branch of our activity. In addition to this particular improvement, we find an increasing desire on the part of interested sportsmen, both hunters and anglers, to co-operate with us in assisting our regular Overseers to maintain a proper degree of respect for our Game and Fisheries Regulations, even to the extent that in many cases in order to provide themselves with credentials of authority they accept appointments as Deputy Game Wardens, acting without renumeration, rendering co-operation, and providing a measure of service, the value of which, particularly from the moral point of view, it would be exceedingly difficult for us to estimate, and it is fitting and proper at this point in the report that expression should be given to our appreciation of this invaluable assistance and co-operation.

Records show that during the period under review there were 414 cases of infractions in which the offenders were prosecuted in the courts and in which convictions were secured and penalties imposed. In 267 of these cases, the action was originated by Game and Fisheries Overseers; in 104 by members of the Provincial Police force; in 13 by Deputy Game Wardens; and in 30 by co-operative action, Overseers, Deputy Game Wardens and Provincial Police acting in conjunction.

In all there was a total of 455 cases in which seizure of goods and equipment was involved. Here again it is shown that the action was provided by Game and Fisheries Overseers in 313 of these cases; by members of the Provincial Police Force in 52 cases; by Deputy Game Wardens in 58 cases; and in the remaining 32 cases by the co-operative action as previously set forth.

condensed summary of the articles thus seized shows the following	ng:-
Description Number of	f
of Articles Seizures	
Live Animals	
Birds, Animals and Game Meat 64	4
Fire-arms and Ammunition	-
Fish	
Fishing Equipment (Nets &c.)	
Miscellaneous Articles 12	
Pelts 84	
Trapping equipment	ı
Water Craft and Motor Cars 11	L

While the total of this table would indicate 538 seizures, some of the actual 455 seizure cases would be duplicated in these entries; such as one seizure might report fire-arms, as well as birds etc.; another, fish and fishing equipment; while still others would include traps and pelts, and the apparent discrepancy is therefore accounted for by these various duplicate entries from one seizure report.

#### EXPERIMENTAL FUR FARM

During the period under review, an investigation was carried out regarding the digestibility of various cereal foods for foxes. The first problem investigated was the place of raw and uncooked cereals in the diet. The use of raw cereals finely ground has been widely advocated from time to time as a time and laboursaving method. However, the experimental data secured with test foxes receiving raw ground oatmeal, rice, whole wheat flour and corn meal, revealed quite definitely that they were not properly digested either singly or in combination with one another. The feces showed considerable quantities of undigested starch, thus demonstrating that the fox is unable to reduce starch to an assimilable form in the raw state. On the other hand, when the cereals mentioned above were thoroughly cooked for the period of one hour or so, the foxes were able to digest it very thoroughly. No raw starch could be demonstrated in the feces of these animals.

Further studies were carried out with the round worm and its relation to pathological conditions which are often found in the lungs of young fox pups from one to two weeks of age. From the time the egg is swallowed by the fox it is 51 to 52 days until the female worm reaches naturity and is producing eggs. Once the larvae hatch, they migrate through the body and cause a serious disturbance in the blood cells. This disturbance reaches the peak around the 12th day. It has been definitely established that pups become infected with round larvae previous to birth and that the pregnant female, if infected with larvae, can pass them to the pups by way of the blood stream. An examination of many pups which died in early age show that the small blood vessels of the lungs have been ruptured by the larvae, leading to serious pneumonia complications and often death. It is obvious that fur farmers, (once the cold weather has commmenced in the Fall, and which weather conditions prevents parasitic eggs from developing) should make serious efforts to rid all females of adult worms by the use of capsules containing worm-destroying properties. A more detailed account of these experiments has been published in the fur farming press and the results have also been extended to fur farmers by lectures delivered at regional meetings held throughout the Province.

Apart from this work, the customary routine and post mortem examinations of animals sent from ranches for diagnostic purposes were carried out.

# FISH CULTURE BRANCH (See Pages 11, 12 and 13.)

#### REPORT OF THE BIOLOGICAL AND FISH CULTURE BRANCH

#### COLLECTION OF SPAWN

Generally speaking, the spawning season of lake trout, whitefish, and herring in the Great Lakes falls to some extent within the period of this report. The spawning season varies according to the species and the geographical, climatic, and limnobiological conditions existing in the various areas.

It would be out of place to go into a discussion of spawning seasons within the compass of this report. It is sufficient to say that during the fall spawntaking crews are organized for the purpose of collecting spawn of the commercial species for our various hatcheries which are located at strategic points along the Great Lakes' chain. In addition to the work of the hatchery crews, the Department has received

excellent co-operation in this respect from the commercial fishermen under the direction and guidance of the Branch. This team play resulted in a satisfactory production of eggs of commercial species and their resultant fry for re-stocking suitable sections of the Great Lakes and commercially fished inland waters. Lake trout are sought after by anglers to a considerable extent in the inland waters of the Province; these waters also receive necessary replenishment from time to time with hatchery stock.

It should be pointed out that an important principle is involved in the establishment of hatcheries on the various Great Lakes and connecting waters, namely, that the eggs collected from such areas are cultured in water of similar composition to that in which the species cultured live and thrive in a natural state, and in which the fry artificially cultured will ultimately be planted. Behind the establishment of district hatcheries there is also the same underlying principle.

The temperature of the water in these commercial fish hatcheries is, generally speaking, the same as the water over the natural spawning grounds where the young fish are developing from the time the eggs are laid on these grounds in the fall, during the winter, and until they hatch in early spring. In the hatchery, however, the eggs are protected from the hazards of a natural environment and are, therefore, carried over a critical period in the life-history of the fish.

Speckled trout spawn was collected from breeders retained in our breeding ponds at Dorion, Sault Ste. Marie, and Normandale. Brown trout eggs were collected from a breeding stock at Mount Pleasant and rainbow trout eggs from a breeding stock at Normandale.

#### DISTRIBUTION

Very little distribution is done at this period of the year, but during an advanced spring the fry of the whitefish and herring, especially the former, hatch rapidly and must be distributed, since they can be held in the tanks in the hatchery for a limited period only. The distribution made in accordance with directions issued by the Branch was as follows:

Whitefish Lake of the Woods Lake Erie	96,620,000	44
Lake Ontario (proper)	20,000,000	"
Total		

The following distribution of lake trout eyed eggs was carried out on an exchange basis:

Federal Hatchery at Banff, Alta	100,000 eyed	eggs
Federal Hatchery at Middleton, N. S		4.4
Hatchery at French River, U. S. A	700,000 "	"
Pendleton Oreille Hatchery	100,000 "	4.6
Hatchery at Colville. Washington	200.000 "	4.4
State Fish Hatchery, Canaan, Vermont		4.6
Government Hill Hatchery, Augusta, Mai	ine . 102,800 "	4.4
State Fish Hatchery, Colebrook, N. H.		4.6
Monmouth Hatchery, Monmouth, Maine		"
Total	1 926 600 "	6.6

The arrangement with the Canadian Hatcheries was made through the Department of Fisheries, Ottawa, whereby eyed lake trout eggs were exchanged for 100,000 eyed Kamloops trout eggs from Kamloops hatchery, British Columbia. The exchange with the United States hatcheries was on the basis of an equal quantity of eyed speckled trout eggs in return for an equal quantity of lake trout eggs.

In addition to the above, the following distribution of game-fish was made:

Brown Trout

Experimental	purposes	 100	yearlings
Rainbow Trout			
Experimental	purposes	 2,000	eggs
Private water	s (sale)	 3,000	fingerlings

#### REMOVAL OF NOXIOUS FISH

From January 29, 1935, to March 12, 1935, hoop nets and gill nets were operated in suitable parts of Lake Mindemoya and Lake Manitou, Manitoulin Island, for the purpose of removing ling during their spawning season. As a result, 2,431 ling were removed from Lake Manitou and 80 from Lake Mindemoya. The average weight of the ling taken from these lakes was 6 pounds and the total weight of ling removed was 15,066 pounds.

From December 21, 1934, to January 28, 1935, similar work was conducted in the following waters in Leeds and Lanark counties with the following results:

	No. of Ling	Average	Total
	Removed	Weight	Weight
Pike Lake	$199 \\ 334 \\ 718 \\ 26$	8 5 8 3 4 5	$\begin{array}{r} 5,816\\ 995\\ 2,672\\ 2,154\\ 104\\ 2,075\\ \hline \hline 13,816\\ \end{array}$

The removal of ling from these waters is valuable, in view of their known depredations on game-fish.

#### EXPERIMENTAL HATCHERY

In conjunction with the Branch laboratory, facilities were provided for carrying over limited quantities of fish in an experimental hatchery, a miniature of the standard hatchery provided with standard hatchery equipment. The hatchery was established for the purpose of continuing studies on the nutritional requirements of trout, the diseases of fish, and to check various phases of hatchery practice.

#### ACKNOWLEDGMENTS

In conclusion I desire to express my appreciation of the assistance and support rendered to the Department during this period. More particularly would I mention the various Fish and Game Protective Associations and allied organizations throughout the Province, the officers and members of which have at all times displayed keen interest in our work and exhibited a desire to see that the legislation for the administration of which we are responsible is equally fair to all concerned, and to this extent have therefore encouraged the Department in its efforts by an impartial administration to secure, as far as possible, proper observance of Game and Fisheries Regulations and thus promote improved conditions in the Province.

All of which is respectfully submitted.

I am, Sir,

Your obedient servant,

D. J. TAYLOR.

Deputy Minister of Game and Fisheries.

Toronto, April 2nd, 1936.

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# Thirtieth Annual Report

OF THE

# Game and Fisheries Department

1936-1937

PRINTED BY ORDER OF THE LEGISLATIVE ASSEMBLY OF ONTARIO SESSIONAL PAPER No. 9, 1938



#### TORONTO

Printed and Published by T. E. Bowman, Printer to the King's Most Excellent Majesty

1 9 3 8

#### TO THE HONOURABLE ALBERT MATTHEWS,

Lieutenant-Governor of the Province of Ontario.

#### MAY IT PLEASE YOUR HONOUR:

I have the honour to submit herewith for the information of Your Honour and the Legislative Assembly, the Thirtieth Annual Report of the Game and Fisheries Department of this Province, for the year ended March 31st, 1937.

I have the honour to be,

Your Honour's most obedient servant,

H. C. NIXON,

Minister in Charge,
Department of Game and Fisheries

Toronto, 1938.

#### THIRTIETH ANNUAL REPORT

OF THE

# Game and Fisheries Department of Ontario

TO: THE HONOURABLE H. C. NIXON,

Minister in charge,

Department of Game and Fisheries.

#### SIR:-

I have the honour to submit to you in this and the following pages the Thirtieth Annual Report of the Department of Game and Fisheries, outlining the activities of Departmental services for the fiscal year ended March 31st, 1937. The various comparative tables included in this Report, and the appendices thereto will be of interest when read in conjunction with other portions of the Report as an indication of the success and progress which has been made in the administration of the wild life division of the provincial natural resources.

#### FINANCIAL

At the outset it is perhaps advisable to refer to the financial position of the Department, and it gives me a great deal of pleasure to present herewith the statement of revenue produced under this Department during the fiscal year reported upon, specifying the various sources from which this revenue is secured together with the sum derived therefrom in each instance.

ORDINARY REVENUE FOR THE FISCAL YEAR ENDING MARCH THIRTY-FIRST, 1937.

GAME—		
Royalty	\$80,830.70	•
Licenses—		
Trapping\$28,371.25		
Non-resident Hunting 73,937.50		
Deer 59,351.25		
Moose 2,981.00		
Gun 71,526.01		
Dog 3,955.30		
Fur Dealers		
Fur Farmers 7,335.50		
Tanners 190.00		
Cold Storage 133.00		
Hotel and Restaurant 10.00		
The second secon	277,527.81	
	211,021.01	
		\$358,358.51
FISHERIES—		
Royalty	10,526.10	
Licenses—		
Fishing\$100,924.34		
Angling 272,690.50		
	373,614.84	
Sales—spawn taking	,	
		384,357.55

#### GENERAL-

Tourist Licenses	\$4,950.00
Guides' Licenses	6,716.00
Fines	11,271.15
Sales—Confiscated articles, etc	10,279.12
Rent	3,222.58
Commission	2,113.69
Miscellaneous	949.03

\$39,501.57

\$782,217.63

The total receipts in the previous year amounted to \$683,938.72 and it will thus be noted that the revenue for 1936-37 shows an improvement of \$98,278.91. Of this increase \$83,592.09 is attributable to the enlarged sale of non-resident angling licenses, while in the game division improvements in some branches were completely nullified by reason of the fact that revenue from royalties, principally on the pelts of fur-bearing animals, showed a decline in excess of \$30,000.00, and a large proportion of which decline may be attributed to the entire close season which prevailed on beaver with the resulting lack of royalty revenue accruing from pelts of this particular species of fur-bearer. The complete picture, nevertheless, is a notable one and it might here be stated that the revenue collected this year has never been excelled in any previous year.

Departmental expenditures totalled \$474,128.95, so that our operations for the year resulted in a surplus of \$318,088.68. Principal expenditures were made on the enforcement service, \$188,810.36; fish hatcheries \$141,263.55; construction \$27,997.38, work being undertaken at the Trout Rearing Stations at Chatsworth and North Bay, Ingersoll Ponds, Manitoulin Bass Ponds, Midhurst Ponds, and the Sarnia and Wiarton Fish Hatcheries; Bird Farms and Experimental Fur Farm \$9,197.15; and Wolf Bounty \$33,360.63.

It is generally conceded that the excellent fishing and to a somewhat lesser degree (which may possibly be attributed to the more vigorous weather conditions which prevail in the season) the hunting which are available in Ontario to the visiting sportsman are among the attractions responsible for the current increase in tourist traffic to the Province, and the importance of this tourist business is quite obvious. Money spent by our visitors is neither localized nor centralized but accrues in some measure to the benefit of every man, woman and child in the Province. Therefore, it is at present, and will continue to be an objective of this Department, by means of an extensive and intelligent re-stocking programme, and by reasonable protective measures designed to conserve the supply to perpetuate the resources and privileges which now encourage non-resident tourists to vacation within our borders.

#### GAME

The table which follows will show in detail what various hunting licenses, resident and non-resident, were issued during the year compared with information of a similar nature covering recent previous years. Noticeable increase will be observed in the number of non-resident hunting licenses which were issued during the year when compared with the number issued in 1935-36. This increase resulted in the collection of additional revenue from this particular branch of our activity amounting to \$20,857.50.

	1933	1934	1935-36	1936-37
Resident Moose	673	512	496	542
Resident Deer	12,756	12,890	14,779	15,394
Resident Camp (Deer)	165	175	258	262
Resident Farmers' (Deer)	5,113	4,902	5,221	5,386
Resident Gun	97,561	76,210	85,884	79,531
Non-resident small game	318	489	686	1,129
Non-resident deer		475	652	848
Non-resident "General"	634	457	680	878

The following pages will contain a summary of conditions as they apply to both our animal and bird game life, and which information has been compiled from the reports of these conditions submitted by various members of the field service staff of the Department stationed throughout the Province:—

**DEER:**—So far as the northern and northwestern portions of the Province are concerned reports to the Department indicate that, while the situation there has many problems peculiar to the area itself, conditions as they existed during the period under review were quite satisfactory, with some possible improvement and increase in numbers in certain sections.

In the southwestern part of the lower portion of the Province, some increase is reported, probably due to the protection which has been afforded to them over a period of years, and while they are most numerous in the Counties of Simcoe, Grey, Bruce and Huron, there are evidences that these animals are to be found in practically every County in the section to which this reference pertains, and in the not too distant future may possibly reach the point where they may constitute a source of trouble to farmers and market gardeners. While the conservation measures now in effect have been provided for the purpose of protection they do not contemplate the development of our deer resources to such an extremity as is here indicated. In the central Counties they may be found in fair numbers only in Peterborough and Victoria, with slight improvement though continued scarcity reported from Halton, Peel, Northumberland and the north part of Ontario Counties. East of and including Hastings conditions were better, and they are to be found in numbers providing fairly satisfactory hunting in practically all the areas here in which an open season prevails. In the section in which the most intensive concentration of deer hunters occurs during the regular open season, i.e. Parry Sound, Muskoka and Haliburton, conditions are reported to be satisfactory and as yet good hunting is available there.

Undoubtedly the restrictions which apply to deer hunting continue to be necessary and must be observed and regulate the conduct of hunters if we are to preserve and improve our deer herds throughout the Province, and which condition is essential in order to guarantee and justify a continuation of the fall hunting season in which many of the sports loving public are privileged to participate.

In recent seasons we have been seeking the co-operation of deer hunters by asking them to submit a return to the Department of the result of their hunting together with comments. In the past the number of hunters making this return has been disappointing. Seeking an explanation for this apparent indifference on the part of sportsmen we came across a letter from a hunter which reads in part; "A lot of the boys won't make this return because they are afraid you will use the information to send tourists or others to their favourite hunting grounds. Why don't you tell them the real reason for the return?" The answer to this query is that it is necessary the Department should know the number of

deer of both sexes killed annually, the locations where they are to be found in largest numbers, and the territories where they are obviously scarce, in order that suitable regulations for their conservation may be framed. With over twenty thousand hunters in the bush each fall a means is provided for obtaining reliable information of our deer herds not otherwise available. A brief reflection will convince the hunter that this information is wholly in the interest of sport.

MOOSE:—These animals are not at all plentiful in any part of the Province and little improvement is evident even in the southern part where they have had the complete protection of an entire close season for the past several years. Reports from this Section are to the effect that if there be any increase such conditions can be attributed to any overflow from Algonquin Park. From northern Ontario where hunting of moose has been permitted in conjunction with the deer season reports reaching the Department indicate some scarcity and the desirability of the additional protection of an extended close season in some areas to preserve and thereby provide for improvement and increase in the numbers of this species.

CARIBOU:—These animals are very scarce and are to be found only in the extreme north. Herds are reported only in the northern portion of the Cochrane District and in a few scattered sections of the Thunder Bay and Kenora Districts.

ELK:—The original shipments of these animals to Ontario from Western Canada were supervised by the Federal National Parks Branch, and on arrival here were placed in the following Crown Game Preserves, viz;—Pembroke, Burwash, Chapleau, Nipigon-Onaman and Goulais River-Ranger Lake. Reports indicate there has been more or less improvement in all instances save possibly among those placed in the Nipigon-Onaman Preserve. From the herd at Pembroke certain animals have been distributed to suitable areas in Algonquin Park and on the Bruce Peninsula, while a number of Elk on the Burwash Preserve were liberated in that area, and as far as possible the animals so transferred were set at liberty some considerable distance from farm property. Improvement in numbers has been observed among the animals transferred to Algonguin Park and the Bruce Peninsula, while from Pembroke is reported a fair increase, and a fine showing of young animals from Burwash.

RABBITS:—All varieties were reported to be rather scarce throughout the northern areas. Reports received from the various portions of southern Ontario reveal there is no scarcity of either the cotton-tail rabbit or the European hare (commonly called the jack rabbit) in the western Counties, and some satisfactory hunting was enjoyed here. Conditions, however, were not as favourable as this in the central Counties, while a noticeable lack of numbers was reported from the east and the northern districts of Parry Sound, Muskoka and Haliburton.

It is interesting to note from these reports that the jack rabbit is migrating northwards. Existence of this species in Muskoka has been observed and it is possible that the pleasure and recreation which the pursuit of this creature of the wild has provided to sportsmen in the southwestern Counties may soon be available to the interested hunters farther afield.

PARTRIDGE:—Ruffed grouse are reported to be scarce in practically every section of the Province though some increase in their numbers was noted in the eastern portion of northern Ontario, and in some scattered areas in the western portion of the north.

The sharp-tailed grouse, or prairie chicken, display conditions which are no better, but pratically similar to those which exist with reference to the ruffed grouse.

The complete close season which has prevailed on partridge is absolutely necessary in order that the various species may have an opportunity for replenishment.

The condition of scarcity existing at this time is one which prevails perodically and has been the subject of many investigations and reports. Quite recently a paper dealing with fluctuations in the numbers of ruffed grouse and having special reference to this condition in Ontario, was prepared by C. H. Douglas Clarke, of the University of Toronto, Department of Biology. From this report it would appear that these periods of diminution do not occur simultaneously throughout the country, and even in this Province there are local differences of at least three years in the time at which diminution commences. Each period of diminution is preceded by comparative abundance and followed by comparative scarcity so that the conditions of the ruffed grouse population over the sixty years for which data are available may be expressed as a periodic cycle of between nine and ten years.

QUAIL:—These birds occur in only a small portion of the Province. They are reported to be fairly numerous and their numbers increasing in some Counties in the southwestern peninsula, notably Essex, Kent, Elgin, Middlesex and Lambton. Reports of their existence in other portions of southern Ontario do not indicate any improvement, and it is quite probable that there are few, if any, areas outside of the Counties enumerated in which these birds may be encountered. A few pairs of these birds were distributed during the year by the Department in the Counties of Essex, Middlesex and Norfolk.

PHEASANT:—The Department continued its work along the lines of the estabment of this excellent upland game bird in areas suitable to its existence. This branch of activity included the distribution of eggs and the liberation of live birds in proper areas, with more concentration and emphasis on the live bird phase of this activity. Records show that some 1,146 settings of eggs, or 17,190 eggs in all, were shipped to various applicants. Of these, 640 settings were sent to parties located in southwestern Counties and 280 settings to parties in Counties along the northern shore of Lake Ontario and the River St. Lawrence. The remainder was practically all distributed in Counties immediately north of these areas.

A total of 2,803 live birds, including a few of the mutant variety, were liberated in connection with this branch of our re-stocking activities, and of this total 1,401, or fifty percent, were placed in the southwestern Counties, 946 in the southerly eastern Counties, and the balance in areas immediately adjoining these Counties to the north.

This distribution of live birds was augmented by reason of certain conditional loans to breeders under which live birds raised by them to the number of 1,287, included in the distribution figures above set forth, were made available to the Department for use in connection with our general programme of re-stocking.

The Department is deeply appreciative of a donation of mutant pheasants received from the Ohio State Department of Conservation, and which birds were liberated on Pelee Island.

It is believed that the value to the farmer of the various species of upland game bird is becoming more obvious as we learn of the life history and activity of these birds. They provide the farmer with efficient and effective service as insect killers and weed destroyers. It is therefore apparent that game birds on the farm are a real asset, both from the standpoint of service and that of beautifying the farm. To be effective, however, they must be given consideration with regard to food and coverage, and in addition to this must be controlled against overpopulation consistent with the available supply of food lest they become a pest. This control is best exercised by legalized and seasonable fall shooting restricted as to season and bag limits established in accordance with the number of birds available. This control is a matter for mutual understanding between the sportsman and the farmer, for the game is the property of neither the farmer nor the sportsman, but with the proper spirit of co-operation is available with advantage to both.

DUCKS:—Reports indicate that these birds provided good sport throughout the Province, notwithstanding that general conditions which applied to their propagation throughout the Dominion as a whole resulted in additional restrictions being imposed by the Federal Government under the Migratory Birds Convention Act, which is the legislation applicable to these birds, such as a more limited open season, a reduction in the daily bag limit from 15 birds to 12 birds, and a provision under which the use of live birds as decoys was prohibited. Conditions were perhaps somewhat improved as a whole, notwithstanding some reports to the contrary from a few sections.

GEESE:—This species provides shooting in only a very few sections of the Province, particularly in the extreme north, along the James Bay shore, and in the southwestern Counties, from which areas favourable reports are received. The Federal restrictions as referred to in the case of ducks were also applicable to geese, though these regulations as promulgated permitted a limit of catch in the case of geese of five birds per day and not more than fifty per season.

**PLOVER:**—This bird continues to be very scarce in every section of the Province. But little improvement has been reported and only in a few scattered areas.

**SNIPE**:—Reports show extreme scarcity of this species in northern Ontario, though there is some evidence they are more prevalent and show some improvement in the southern end of the Province, and particularly in the eastern portion.

HUNGARIAN PARTRIDGE:—This, of course, is not a native species, but was introduced to the Province some years ago, and liberated in various sections with the idea of providing additional shooting for sportsmen. No active re-stocking was undertaken by the Department during the year under review, and there is little evidence of improvement except in scattered areas in some eastern and southwestern Counties from which reports of increased numbers have been received.

WOODCOCK:—This species is reported to be fairly plentiful in various sections, particularly in the central and western portions of the southwestern peninsula, notably Elgin, Essex, Norfolk and Oxford, and in some of the eastern Counties.

Before closing this section of the report reference is made to the fact that regulations were passed which provided special open seasons and established conditions to govern, as follows:—

- (a) Pheasants—Pelee Island, October 22nd, 23rd, 29th and 30th. Limit of five birds per day.
- (b) Pheasants and Quail—Essex, Kent and Middlesex Counties, October 22nd and 23rd. Limits of catch, two pheasants and three quail per day.
- (c) Pheasants—Lincoln, Welland and Haldimand Counties, October 22nd and 23rd. Limit of two birds per day.
- (d) Deer—Carleton County west of the Rideau River, November 5th to 20th. General deer hunting regulations applied.
- (e) Deer—Townships of St. Edmunds, Lindsay, Eastnor and Albemarle on the Bruce Peninsula, November 16th to 21st. General deer hunting regulations applied except that the use of dogs was forbidden.

#### FUR BEARERS

Conditions as they apply to fur-bearing animals throughout the Province and as they have been briefly summarized from reports received in the Department are set forth in the following references:—

**BEAR:**—These animals were reported to be quite numerous throughout the entire northern portion of the Province as well as in the more northerly areas of southern Ontario, which provided a degree of hunting much appreciated by those interested in this branch of the sport.

BEAVER:—The sectional close season of previous years was made effective throughout the entire Province, and the increase in the numbers of these animals which has been reported from various districts can in all probability be attributed to this protective action. In practically all areas in which beaver have existed in the more recent years there has been some improvement in the conditions applicable to this desirable species of fur-bearing animal and in consequence of the complete protection which is now being provided this improvement should not only continue but become more evident.

FISHER:—Existing conditions which apply to this species of valuable furbearer are not at all favourable in any area. These animals are, generally speaking, very few in number and the sections in which any improvement has been observed and reported are but few and scattered.

FOX:—The several varieties of this species, in the wild, i.e., red, cross and silver, continue to be generally about the same as in recent years. Quite naturally conditions vary in the different portions of the Province and while improvement is noted in some parts this has served only to balance the reduction in their numbers which has been reported from other areas.

LYNX:—Here, as in the case of the fisher, conditions are not at all favourable, though it should be stated in reference to this species that no protection in the way of a close season is provided, and they may be taken any time during the period covered by the general trapping season. While some slight improvement is reported from Northern Ontario, general conditions do indicate that this particular species is doing no more than maintaining the levels of recent years.

MARTEN:—These animals are practically extinct in the southern portion of the Province, and they continue to be extremely scarce in northern Ontario, with some slight improvement being reported from the eastern section thereof.

MINK:—Reports from practically every section of Ontario warrant the assumption that mink are becoming less plentiful. Comparisons show that the catch of mink taken by licensed trappers again shows a considerable decline during the season reported upon.

MUSKRAT:—There is no doubt that in many areas which have previously supported this desirable little fur-bearer, natural conditions are becoming unfavourable. The fluctuation of water-levels and possible lack of food supply are having an adverse effect. Conditions may be described as only fair, and throughout the Province generally show no improvement. There has been a progressive decline in the number of the annual catch in recent years, as an examination of the subjoined comparative table will show.

OTTER:—Conditions here continued to be about the same as in more recent years. While these animals are still scarce they appear to be holding their own under the existing regulations which apply, and as a result a special Order was provided declaring an open season on this species extending from November 1st, 1936, to February 28th, 1937, and which open season, of course, coincided with that provided in the Game and Fisheries Act in the case of mink and fisher, as well as fox and marten.

RACCOON:—These animals are found only in Southern Ontario, and general conditions here are about as usual. While reports from some areas indicate improvement, this is not generally the case, for in many southwestern counties their numbers are reported to be somewhat limited and possibly diminishing.

**SKUNK:**—The catch as reported to the Department through the regular channels shows quite an increase as compared with that of the previous year, and this pestiferous and objectionable little creature continues to be quite plentiful throughout the Province. Market prices which have prevailed for their pelts have not been sufficiently attractive to encourage any extensive trapping operations in the case of this particular species.

WEASEL:—This species continues to be plentiful. While the pelt is of considerably less value than was formerly the case, the catch shows a decided increase over that of the previous year. Nevertheless a review of reports to the Department reveals the fact that this condition does not justify the belief that there has been any great general increase in their numbers throughout the Province.

**SQUIRREL** (Black and Grey):— These animals are quite numerous in the southern Counties and more particularly is this applicable to the western portion. They were afforded the protection of an entire close season which condition in all probability contributed in a large extent to the improvement evident in the numbers of these varieties of the squirrel species.

At this point it is desired to make some general comments on trapping conditions.

So far as Southern Ontario is concerned, except for a few scattered districts, trapping can no longer be regarded as providing remunerative employment to any great extent. Fox-hunting as a sport is enjoyed in many sections as is evidenced by the large number of special permits which are issued for this purpose and while considerable numbers of skunk and weasel are taken the financial returns received from the sale of these pelts by the trappers concerned are not at all impressive. The more valuable, and therefore the more desirable, species are becoming very scarce. Lynx, marten and fisher are practically non-existent in the south; beaver which appear to be improving are, of course, provided the protection of a complete close season throughout the entire Province; while conditions which apply to mink, otter and raccoon are not at all favourable. Fox, as has been previously stated, are responsible for some good hunting in addition to the trapping made available by their numbers, and in some scattered sections fairly good muskrat trapping is still available if satisfactory weather conditions prevail just previous to and during the open season.

In Northern Ontario during the year reported upon while conditions were naturally better than those reported from Southern Ontario, they showed no improvement over those which have been in evidence there in the more recent years. Licensed trappers in this northern section are restricted as to the area in which they may carry on their trapping operations, each being allotted a specific territory for his own use. It is anticipated that this system will encourage each individual trapper to practice conservation and protection in his own territory, as a means of assisting to perpetuate the various species of fur bearers therein.

The protection which present Regulations provide for the more desirable classes of fur-bearing animals, particularly along the line of short and restricted open seasons during which periods only they may be lawfully trapped, is very necessary, and furthermore the compliance of all concerned with the various Regulations which govern is not only essential but must be forthcoming, and while the experienced trapper may not in all instances be favourably disposed to the various restrictions which now apply to fur-bearing animals and the trapping thereof, full co-operation with the Department along these lines is absolutely necessary if we are to be expected to maintain these animals at their present levels, without imposing further restrictions.

The following comparative table shows the numbers of pelts of the various species of fur-bearing animals exported from and dressed within the Province

during the year now reported upon and the two years previous, and upon which royalty was paid as required by provisions of the Game and Fisheries Act:—

	1933-34	1935-36	1936-37
Bear		411	476 238
Beaver		6,785 2,137	2,117
Fox (cross)	2,224	5,424	4,156
Fox (red)		37,044 500	35,232
Fox (white)	89	883	17
Fox (not specified)		495 2,642	$\begin{array}{c} 276 \\ 2.081 \end{array}$
Marten	1,096	1,282	1,464
Mink		47,057 398,043	$33,930 \\ 370,239$
Otter		3,701	3,779
Raccoon		13,259	14,243
Skunk		50,747 42,643	87,950 78,643
Wolverine	5	4	2
	780,679	613,057	635,203

From information which was secured from reliable sources the Department has computed the value of these pelts to be some \$1,902,407.90, which was practically the same, (as a matter of fact only four thousand dollars less), as the figure produced by the catch of the previous year. This figure, of course, is the actual value of the fur catch to the trapper.

This total does not include the product of licensed fur farms from silver, black and blue foxes and mink, the pelts of which ranch raised animals are exempt from the payment of royalty, under the Game and Fisheries Act. It will be of interest to note that during the year 1936-37 licensed fur farmers marketed 28,619 silver and black fox pelts, 24,297 exported and 4,322 tanned; and 15,691 mink, 15,623 exported and 53 tanned; which pelts together with the few blue fox pelts marketed have been computed to have realized the total sum of \$1,067,848.32 on behalf of our fur-farmers.

#### FUR FARMING

The propagation of fur bearing animals in captivity on licensed fur farms has been established and developed as an industry to the stage where in point of values accruing from the product thereof it is beginning to threaten the production of fur from our wild life natural resources, and the time is probably not far distant now when the value of the anual product of our licensed fur farms will exceed that of the catch of our licensed trappers from the wild. Some native species can be successfully propagated in captivity, and while the results which have been evident to date perhaps do not suggest much in the way of economic possibilities, experiments still continue though undoubtedly not to the same extent as in previous years. It has been found that other species are not adaptable to domestic propagation with a corresponding absence of satisfactory results. Consequently, for the present, fur farmers would appear to be devoting the major portion of their efforts to work with foxes principally silver and black, and to mink, they being the only species raised in substantial quantities.

While the prices which furs brought in the open market did not offer much encouragement to prospective fur farmers, faith in the future of the industry induced some to commence operations, which is apparent from the fact that the number of fur farms operating under license during the year 1936 increased practi-

cally nine percent, there being 1,348 licenses issued, while breeding stock figures show an increase of ten percent in silver foxes, and an increase in excess of twenty-six percent in mink.

SUMMARY OF BREEDING STOCK ON LICENSED FUR FARMS
AS AT JANUARY 1ST

	1935	1936	1937
Beaver	78	70	21
Fisher	19	16	20
Fox (cross)	434	367	257
Fox (red)	286	228	207
Fox (silver or black)	19,314	21,645	23,869
Fox (blue)	10	5	. 0
Lynx	2	<b>2</b>	2
Mink	8.605	12,332	15.539
Muskrat	447	375	351
Raccoon	799	524	358
Skunk	0	3	5
Bear	11	21	15
Marten	9	4	4

Much of the research and experimental work previously performed at the Provincial Experimental Fur Farm at Kirkfield has been curtailed or discontinued. All laboratory equipment was transferred to the Ontario Veterinary College, at Guelph, which is more favourably located, and at which institution facilities have been made available for such biological and post mortem services as may be required by the licensed fur farmers.

#### CROWN GAME PRESERVES

During the period under review the work of establishing small game preserves in Southern Ontario was continued. Through the co-operation of the landowners, sportsmen and the Protective Associations excellent progress was made in selecting suitable areas. As a result some twenty-six preserves were set aside in seventeen different Counties. In addition a preserve of approximately 100,000 acres was established in the District of Nipissing. This brings the total preserve areas in the Province to 111 with an area of approximately 6,061,289 acres, or 9,471 square miles.

The Preserves set aside have been properly posted with metal signs and the publicity given them has resulted in a larger measure of protection from both the public and the interested landowner. Considerable stocking of ring-necked pheasants was carried out in these new areas with good results from the standpoint of propagation.

The following tabulation shows the Preserves added during the year:-

Designation	County	Extent in Acres
Holmedale Paris Kinloss West Lorne Wyandotte Ojibway Sheppards Lake Keppel Holland	Bruce Elgin Essex Essex Grey	270 860 1,000 3,300 1,017 1,440 200 1,650 845

Designation	County	Extent in Acres
Wallaceburg Brigden Niagara Thorndale W. E. Saunders Sanctuary Jocko Varency Turkey Point Mud Branch Cedar Creek Petawawa Point Conestogo Guelph Humberstone Willoughby Park Bertie Markham	Kent Lambton Lincoln Middlesex Middlesex District of Nipissing Norfolk & Haldimand Norfolk Oxford Oxford Renfrew Wellington Welland Welland Welland York	1,400 5,750 400 850 614 100,000 1,300 1,200 2,000 800 500 1,475 1,000 900 1,200 1,200

#### WOLF BOUNTIES

The following is a comparative table of condensed wolf bounty statistics covering the four last fiscal years:—

Period	Timber	Brush	Pups	Total	Bounty & Expenses
For year ending Oct. 31, 1933.	1,112	1,229	43	2,384	\$53,433.88
For year ending Oct. 31, 1934.	990	812	57	1,859	27,080.65
For year ending Mar. 31, 1936.	1,159	1,713	33	2,905	42,399.89
For year ending Mar. 31, 1937.	1,090	1,197	31	2,318	33,360.63

During the year some 1,699 claims for wolf bounty in respect of 2,347 wolf pelts, were submitted to the Department for consideration. Fifteen claims, involving 29 pelts were disallowed for various reasons, including seven in which pelts proved to be those of dogs, five fox pelts, six unborn pups taken from the carcass of the mother by the claimant, and five coyotes imported from the Western Provinces, the claimant in this case being prosecuted and convicted. Details as to the sources of origin of the pelts submitted for bounty are outlined in the succeeding table—

#### SUMMARY OF PELTS RECEIVED

	Adult Wolves			
District or County	Timber	Brush	Pups	Total
Algoma	93	166	3	262
Bruce	$\begin{smallmatrix}2&3\\2\end{smallmatrix}$	$\begin{array}{c} 13 \\ 2 \end{array}$	0	36
Cochrane	$\frac{19}{10}$	$\frac{1}{0}$	0	20
Haldimand	0 18	3	ő	3
Hastings	3	4	0	7
Huron	$\begin{smallmatrix}0\\235\end{smallmatrix}$	276	$\begin{array}{c} 0 \\ 1 \end{array}$	512
Lambton Lanark	0	2	0	2 6
Lennox & Addington	14	0	0	14
Manitoulin	12	119	9	140

SUMMARY	OF	PELTS-	(Continued)

	Adult Wolves		_		
District or County	Timber	Brush	Pups	Total	
Muskoka Middlesex Nipissing Norfolk Ontario Parry Sound Patricia	28 0 71 0 1 82 62	2 2 36 5 0 8 57	0 0 6 0 0	30 2 113 5 1 90 124	
Peterborough	133	$\begin{array}{c} 0 \\ 214 \end{array}$	6	353	
Renfrew Simcoe	$\frac{28}{6}$	1 3	0	30	
Sudbury Thunder Bay Temiskaming	$\begin{smallmatrix}86\\148\\12\end{smallmatrix}$	131 157	10	$ \begin{array}{c c} 217 \\ 315 \\ 16 \end{array} $	
Victoria	1 0	1 1	0	2 1	
York Totals	1,092	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\frac{0}{41}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	

It will be noted that the total amount expended was \$33,360.63 of which the sum of \$33,287.00 was the amount actually paid to bounty claimants, as shown by the following statement:

Brush Wolves	(Counties)	41	@	\$ 6.00	\$	246.00	
	(Districts)	1,156	@	\$15.00	\$1	7,340.00	
Total Brush		1,197					\$17,586.00
Timber Wolves	(Counties)	89	@	\$ 6.00	\$	534.00	
	(Districts)	1,001	@	\$15.00	\$1	5,015.00	
Total Timber		1,090					\$15,549.00
Pups	(Counties)	1	@	\$ 2.00	\$	2.00	
	(Districts)	30	@	\$ 5.00	\$	150.00	
		31			_		\$ 152.00
Total		2,318	pel	lts			\$33,287.00

Payment of the full bounty of \$15.00 is assumed by the Provincial Treasury in respect of wolves destroyed in provisional judicial districts, while in the case of these animals which are destroyed in the southern counties the bounty is paid by the County Treasurer, forty percent of the amount being assumed by the Province and subsequently rebated to the Counties.

Trappers and farmers are responsible for eighty percent of the wolf pelts forwarded for bounty, while an examination of the reports as to the methods which were adopted for capturing the animals reveals that forty-five percent were snared, twenty-five percent trapped, and nineteen percent shot, while the authorized use of poison was responsible for the taking of only two percent.

#### NEW DEVELOPMENTS

#### MONTHLY BULLETIN

In August, 1936, the first issue of what was proposed to be a regular periodical bulletin was issued and distributed among provincial newspapers, officers of Game and Fish Protective Associations and sportsmen who have been sufficiently interested to ask that their names be included on the mailing list. The Honourable Mr. Nixon's letter which introduced this publication and which appeared in the first issue contained the following references viz:—

"In presenting this, the first of what we hope will be a monthly bulletin, we have in mind an extension of the publicity work by which we are endeavouring to make the people of the Province more deeply conscious of the valuable heritage we posses in our wild life natural resources, and the necessity for conserving these resources.

"We appreciate the co-operation of the Sportsmen's Associations thoughout the Province, as well as the individual co-operation of all those who, from an aesthetic or recreational standpoint, are interested in the wild life.

"With a view to fostering this spirit of co-operation it is our desire to convey to the public all the information in the possession of the Department concerning wild life resources of our forests, lakes and streams, and we hope that a wider knowledge of conditions will result in a keener realization by the individual of his own responsibility for the protection of these important assets."

Various interesting extracts from the material which was published in the issues of this publication during the months now being reviewed have been incorporated, with advantage, in this particular annual report of Departmental activities, and indicative of the interesting information which appears in this Monthly Bulletin is the following extract from the issue of January, 1937-"Non-resident Angling Licenses: The value of the Tourist Industry to the Province has been emphasized in a previous issue of the Bulletin. Its importance becomes more and more evident each year as records are made available and data in connection therewith is systematically tabulated. The Department of Game and Fisheries exacts a license fee from non-residents who desire to fish in the Province. A tabulation of the licenses issued divulge some very interesting information. turns show that a total of 48,097 non-resident angling licenses were issued during 1936. This total does not by any means represent the number of visitors fishing within the Province. It is provided by the regulations that 'Children under the age of twelve years may angle without a license, when accompanied by a member of his or her family who is in possession of a non-resident angling license,' Further provision is made for the issuing of a special Family License covering a husband. his wife and their children not over the age of twenty-one years, at a fee somewhat higher than that for an individual license. Of the total number of licenses issued 12,810 were Family Licenses.

"As each licensee furnishes the Department with his name and address it is possible to compile a distribution of the different States and countries represented by the license holders. It is interesting to note that every State in the American Union with the exception of Idaho, Oregon, Utah and Wyoming had representatives fishing in Ontario during the summer of 1936. The nearby States of Ohio, Michigan, New York, Pennsylvania and Illinois sent us thousands of sportsmen, the others contributed lesser numbers in direct ratio to their geographical locations. The Provinces of Canada, from British Columbia to Quebec supplied their quotas of visiting anglers but the Maritimes are not represented. Most interesting of all, however, is the information that fishing licenses were sold to visitors from such widely separated parts of the world as England, Java, Porto Rico, Australia, East Africa, Panama, Hawaii, India and the West Indies."

Owing to the provisions of the Regulations under which non-resident angling licenses are issued, and more particularly the conditions which govern the use of these licenses to which previous reference has been made, figures are not available showing the actual number of non-resident anglers, though it has been estimated that under the licenses issued during the year a grand total of more than 68,000 non-residents legally enjoyed the recreational advantages of the excellent fishing which is available in the waters of this Province.

#### TOURIST OUTFITTERS' CAMP LICENSES:

In accordance with a suggestion which was submitted for the consideration of the Fish and Game Committee of the Legislative Assembly by the organized

tourist outfitters, provision was made for the first time to license tourist outfitters operating throughout northern Ontario and in those portions of the Districts of Parry Sound, Nipissing and Haliburton and the County of Renfrew lying north of the line of the Canadian National Railway from Parry Sound to Pembroke. In all some four hundred and twenty-seven camps were licensed, eighty-three in the District of Kenora, twenty-seven in the District of Rainy River, two in the District of Patricia, nineteen in the District of Thunder Bay, sixty-six in the District of Algoma, thirty-eight in the District of Sudbury, thirty-two in the District of Manitoulin, seventy-nine in the District of Nipissing, seventy-four in the District of Parry Sound, and seven in the County of Renfrew. Of this total three hundred and eighty-eight were operated by residents of the Province under license issued at a fee of \$10.00 each, while the balance of thirty-nine were operated under license issued to non-residents at a fee of \$25.00 each.

The regulation of these camps will be of a supervisory nature, while a degree of protection from undue encroachment will be afforded those who already have made large investments in the establishment of permanent camps. The licensing of these camps will also be of much assistance to the Department in the protection of the fish and game resources, because it places an added responsibility on the owners to see that law observance is maintained so far as each individual camp is concerned. As the license is renewable yearly it is obviously in the interest of the licensee to see that his operations are conducted in such a manner that the best possible service and accommodation will be afforded the tourist at rates consistent with the class of service rendered.

From the standpoint of the owner or operator much benefit should accrue. Embodied in each application for a license is a questionnaire asking for information in connection with the camp which might be available for the Department to disseminate to tourists. The answers provide information as to the number and kind of cabins, the various kinds of boats, number of available guides, names of adjacent lakes and rivers, kind of fishing, adjacent hunting territory, species of game to be had, nearest Provincial Highway and distance therefrom, nearest railway, and any other general information the operator may care to supply. This information when received is not only tabulated for the use of the Department of Game and Fisheries but is also passed on by us to the Provincial Tourist and Publicity Bureau which features the tourist advertising work for the Province and responds to thousands of enquiries yearly for just such information as will now be systematically available from the camp operators. This service should prove of very great benefit to those engaged in the operation of tourist camps in that portion of Ontario which is affected, and the supervision exercised under the license will ensure protection for the visitor.

#### AMENDMENTS TO THE ACT:

Amendments enacted by the Legislative Assembly and which became effective during the year included:

Changes in the regulations which apply to the hunting of deer provided for an additional division comprising the southern portions of the Districts of Algoma and Sudbury and the open seasons which would be effective therein, also for a change in the dates of the open season on Manitoulin Island and made provision for the use of dogs in more liberal proportion.

Prohibited the carrying of high-powered rifles during the deer season in areas inhabited by these animals under the authority of any hunting license except the one issued for the taking of deer, as well as prohibiting the use of snares in any part of the Province during the deer season.

Established by legislation different divisions of the Province in respect to the trapping of muskrats and provided the various open seasons to be applicable therein.

Provided protection for and made unlawful the shooting of ospreys and eagles.

Changes in the regulations which applied to the open season for migratory water fowl, i.e. wild ducks and wild geese, and which changes were practically nullified by the subsequent regulations provided by the Federal Authorities under the Migratory Birds Convention Act and Regulations, which last mentioned Regulations definitely apply to such hunting.

And, finally, as set forth under the previous sub-heading, provided for the licensing of tourist outfitters' camps, and established the license fees therefor.

#### ENFORCEMENT SERVICE

The Department maintains a regular staff of field officers which numbered some eighty members during the year 1936-37, whose duty it is to enforce and secure proper observance of the various provisions of the Game and Fisheries Act and Regulations, the Dominion Special Fishery Regulations for the Province of Ontario and those Provisions of the Migratory Birds Convention Act and Regulations which are effective in this Province. The services of this regular Field Staff are augmented by the assistance and co-operation of members of the Ontario Provincial Police force and certain seasonal officers whose services are engaged in connection with the matter of providing adequate patrol service along important waters during the spring and fall fish spawning periods and during the various open hunting seasons. The seasonal overseers employed during the 1936-37 period numbered eighty-three in all, and were engaged for varying periods of time, fifteen for general enforcement purposes, seventeen in connection with the open season for pheasants and other birds, five during the deer season, and forty-six during the critical spring and fall fish spawning periods.

That interested sportmen are concerned in this branch of activity is noted by the fact that during this year some 927 offered and were appointed as Deputy Game and Fisheries Wardens and as such were authorized to assist in the matter of securing proper observance of the Game and Fisheries Regulations. While there will probably always be a number of necessary prosecutions it is felt that this, in minor cases, is not a desirable method of securing observance of the Act. It is believed that many infractions are the result of thoughtlessness, and a lack of knowledge concerning the real worth of our wild life heritage.

The activities of the Game Warden are dictated by the necessity for the protection of our resources and the elimination from our sporting activities of the elements of unfairness which characterizes infractions of the Regulations. The good sportsman is always careful to observe the letter and spirit of the law. In doing so he naturally has to curb his desires and restrict his pleasures. It exasperates him, therefore, to see others with less pronounced scruples calmly ignoring the regulations and making light of their actions.

The laws regulate the wise use of available resources, be it game or fish, and an accumulation of minor infractions may be serious for any species or district. The Game Warden is invariably courteous in the handling of what is, after all, a difficult job. He deserves the co-operation of every sportsman and the backing of every law-abiding citizen.

During 1936-37 there were 1,448 cases in which offences against the Game and Fisheries Regulations were committed and in which the offenders concerned were relieved by various officers of articles of sporting equipment as well as the unlawful game or fish which may have been in their possession on these particular occasions. An examination of the reports of these seizures as submitted to the Department reveals that the action was provided by Game and Fisheries Overseers in 1,193 cases, by Deputy Game Wardens in 137 cases, by Provincial Police Officers in 34 cases, and in 84 cases by co-operative action as between our regular overseers, deputy game wardens, and police officers.

50 cases

A condensed summary of the material thus seized is submitted herewith:-Live animals ..... in 14 cases Birds, game animals and meat..... in 177 cases Fire-arms and ammunition ..... in 491 cases Fish ..... in 241 cases Fishing equipment ...... in 309 cases Angling equipment ..... in 71 cases Pelts and hides ..... in 197 cases Traps and equipment ..... in 148 cases Water craft ...... 35 cases Motor vehicles ..... in 11 cases Poison ..... in 3 cases Lights (artificial) ..... in 32 cases Spears .....in 47 cases

Duplicate entries on one report of seizure, such as fire-arms and game; angling equipment and fish; trapping equipment and pelts, and other combinations of a similar nature account for the apparent discrepancy in the total shown by the above table, viz:—1826, as compared with the actual seizure reports which number 1448.

Miscellaneous articles ..... in

Departmental records contain evidence of the fact that during the year under review some 1,154 cases were prosecuted through the courts, and convictions were registered in 1,092 of these cases, the charges in the remaining 62 cases being dismissed by the presiding Magistrates. It will be of interest to set forth the following details concerning the responsibility for the prosecutions in which convictions were registered, viz:—Game and Fisheries Overseers in 929 cases, Deputy Game Wardens in 18 cases, Provincial Police Officers in 76 cases, while co-operative action as among overseers, deputy game wardens and police was responsible in 69 cases.

While each officer is required to be impartial and efficient in the carrying out of his duties he is also required to use common sense and courtesy in his treatment of the public. In this respect we would like to express a word of appreciation by saying that we believe those virtues are exemplified by the average field officer in the discharge of his duties. On their behalf and as proof of this, we would like to quote part of a letter recently received from one of our non-resident hunters. It is but one of many the Department receives from time to time acknowledging the courtesy of the average Game and Fisheries Officer.

The letter is dated November 25th, 1936, and is in part as follows:

"I cannot refrain from referring to the marked degree of courtesy experienced when one has anything to do with Canadian Officials. I would even go so far as to say that when one gets on this side of the Peace Bridge the change is quite noticeable. Some distance north of Toronto we were held up by two of your officers and our game record and licenses examined, as was proper, but all of it was done with such perfect courtesy that the experience, so far from being unpleasant, strongly inclined the hunter to co-operate to the fullest possible extent. The fact that a day before a group of American sportsmen had been caught in a bunch of lies, without sufficient hunting licenses, and had parts of one deer sewed inside the carcass of another, indicated that underneath the courtesy there was no lack of efficiency.

"It is no wonder that 99 percent of American sportsmen who go to Canada feel about it as I do. Out of many years of this sort of thing has come my association with Rod and Gun and my sense of gratitude has urged me to write for it without compensation as some small return for the good times and treatment I have experienced in Canada."

#### THE FISH CULTURE BRANCH

For the purpose of assisting in the maintenance of the fish supply, the Department has launched a vigorous and progressive fish cultural programme. The value and importance of such action is obvious.

Ontario's game-fishing interests are vitally important, and the maintenance of these interests by protecting the normal fish population and by replenishing this population by fish cultural means, wherever necessary, is becoming of practical concern to increasing thousands of our citizens. The healthful and recreational advantages of game-fishing are of extraordinary importance coupled as they are with the direct and indirect financial benefits of the tourist trade, which penetrates almost every branch of industry, thus increasing employment.

The necessity of supplementing the work of nature in maintaining the important commercial fisheries of the Great Lakes and internationally connecting waters is, also, of vital importance. The interest shown by the commercial fishermen themselves is increasingly evident. By means of their able assistance and the efficient work of the Department's spawn-taking crews, the egg collection is becoming more and more successful each year.

This applies equally well to the actual planting or distribution of game-fish and commercial varieties. Methods of planting are based on the information available regarding the life-history of the species propagated. Although our hatchery officers are responsible for this distribution, the assistance rendered in various ways by commercial fishermen, angling fraternities, and individuals interested in the replenishment of our waters is considerable.

#### HATCHERIES AND REARING STATIONS

During the year a new trout rearing station was constructed in the District of Nipissing, approximately twenty miles north-east of North Bay, off the new Timiskaming highway. This station comprises a hatchery, which will take care of trout from the egg stage to the advanced fry stage. Five raceways are provided for taking care of fingerlings and two large ponds for fingerlings and yearlings. This rearing station will be a most valuable and important asset to this district from the standpoint of more adequate replenishment of suitable waters. Long haulage will be avoided and the fish will be planted in the same watershed and in waters of similar composition to that in which they are reared.

Two additional ponds 50 feet wide by 300 feet long were added to the series at the Chatsworth Trout Rearing Station. This expansion will give a greater opportunity to increase production of sizable trout before they are distributed.

Three small ponds, located on the grounds of the Reforestry Station at Midhurst, were renovated and new and more satisfactory outlet dams were constructed. These ponds are used for wintering trout.

#### SPECKLED TROUT:

This year the Department adopted a policy of rearing large numbers of trout to yearling and older stage before distribution to natural and suitable waters. The results of this plan were eminently satisfactory and more than 563,000 yearlings and older trout were planted, whereas in the preceding year approximately \$5,400 were planted.

In addition to this, 1,053,000 fingerlings were distributed. The entire abandonment of future fry and fingerling distribution is contemplated with the exception of surplus numbers which it might not be possible to accommodate in our nurseries.

A small number of eyed eggs were planted on an experimental basis in inaccessible streams in Thunder Bay District and a few eyed eggs were supplied to the Department of Biology, University of Toronto, for experimental study.

#### BROWN TROUT:

The Department's plan regarding the re-stocking of streams in southern Ontario with brown trout was outlined in some detail in the previous report. Since brown trout are notional in their habits and difficult to catch, they are valuable for restocking suitable waters in thickly populated areas.

Every year more encouraging reports of angling for this species are received and intensive re-stocking of streams in southern Ontario will undoubtedly give good results in the near future.

Our fingerling distribution exceeded that of the previous year by approximately 38,000 and this number would have been trebled except that 100,000 fingerlings were retained over winter for distribution as yearlings the following year. Propagatory work with brown trout will be intensified.

#### RAINBOW TROUT:

#### (a) Steelhead-

Practically the same number of steelhead fingerlings were planted this year as in the one preceding. These were distributed in streams having direct access to larger streams or lakes, since this species has a strong migratory tendency to leave smaller streams in which they are planted in their second or third year. Efforts have been made to establish this species in the lower reaches of trout streams which are no longer suitable for trout on account of the high water temperature prevailing in summer. Trout streams tributary to lakes, somewhat land-locked in character, for example Lake Simcoe, have also been stocked, care being taken to introduce them to streams where dams or other barriers will not interfere with the annual migration to suitable spawning grounds. Large streams in Northern Ontario in which this species has become established are also being stocked.

#### (b) Fall Spawning Rainbow Trout-

Approximately 3,500 fall-spawning yearlings and older rainbow trout were distributed to waters suitable for them, that is the larger, lower reaches of trout streams. Experience in re-stocking with this strain in waters in the State of Minnesota has shown that it will thrive in the larger and warmer portions of trout streams which are no longer suitable throughout their entire courses for speckled trout and they do not show the same tendency to migrate as the closely related form, the steelhead.

#### (c) Kamloops Trout -

A fairly large number of adults of this species have been carried over successfully in ponds at Normandale. At the moment it is difficult to state how successful collection of spawn from these breeders will be; this will depend on the fertility of the sexes.

If this close relative of the rainbow trout, which has been described in previous reports, can be established in our lakes, it will be quite desirable, since it is an excellent sporting fish taken on the fly and by trolling. These trout, except during the hot weather of summer, are usually to be taken near the surface. They show no tendency to migrate from the lakes in which they are planted. Lakes suitable for speckled trout supplied with cold spring water from running brooks are considered suitable for Kamloops trout.

#### LAND-LOCKED SALMON:

The Department was able to secure only a few eyed eggs of this species during the preceding year, and the fish cultured therefrom are being retained.

Some work is being done on a close relative, the Atlantic salmon, to determine whether it will become established in land-locked bodies of water which are suitable for lake trout.

#### LAKE TROUT:

The majority of the lake trout fry were retained to fingerling size for distribution, and as a result the number distributed exceeded that of the previous year by nearly 3.700.000.

#### WHITEFISH:

There was an increase of approximately 44.5 per cent over the distribution of the previous year.

#### HERRING:

An increase of 28.2 per cent. approximately, in the distribution of herring fry over that of the previous year was obtained. A greater production of spawn of the Lake Erie herring or cisco would undoubtedly assist in the replenishment of this important species in that body of water.

#### YELLOW PICKEREL:

There was an increase in the distribution of pickerel fry amounting to 31 per cent over that of the previous year.

Following previous practice, two million eyed eggs (potential fry) were handled by the Sparrow Lake Hatchery, the fry therefrom being distributed in suitable areas in Sparrow Lake.

#### SMALL-MOUTHED BLACK BASS:

There was an increase of approximately 12 per cent in fry distribution as compared with that of the previous year. Although there was a decrease in the number of fingerlings as a result of a reduction in the yield from Ingersoll Pond, there was a fair increase in the number of adults distributed.

#### LARGE-MOUTHED BLACK BASS:

Following the previous year's practice, one pond was operated for large-mouthed black bass production and although there was a decrease in the number of fry, there was a substantial increase in the number of fingerlings produced by this pond, when it is considered that the pond in question is less than one acre in extent.

#### YELLOW PERCH:

The yellow perch is among the more important commercial species of fish taken in Lake Erie. All the perch spawn collected by the commercial fishermen was cultured in the Kingsville Fish Hatchery and the fry resulting therefrom were planted in suitable habitats in Lake Erie.

#### MASKINONGE:

There was a reduction in the total number of maskinonge fry planted as compared with that of the previous year. This was due primarily to reduced collection of eggs as a result of such unfavourable factors as unsatisfactory weather conditions, paucity of breeding males, resulting to some extent in ineffective fertilization. Among the chief prerequisites to success of maskinonge propagation is to have a suitable number of males and females spawning simultaneously and a gently rising temperature. Sharp fluctuations in the temperature of the water are detrimental to successful results.

On this Continent unsuccessful attempts have been made to rear lunge to the fingerling stage in appreciable numbers. According to authentic statistics the record number of maskinonge fingerlings produced as a result of pond culture by one of the States of the United States foremost in this field of fish culture was 4,125 in

1931. These fingerlings measured from 3 to 8 inches in length. During subsequent years this number has not been approximated and, in fact, none of the States culturing maskinonge in their hatcheries has since produced in excess of 2,000 maskinonge fingerlings by the pond cultural method.

As a result of a study of this problem in Ontario, it was found that the factors chiefly responsible for unsuccessful attempts to rear maskinonge in appreciable numbers were twofold.

- 1. The difficulty of supplying adequate and suitable food requisites.
- 2. The problem of cannibalism.

These two factors must be surmounted and the only way in which this can be done is to study the problem in a practical manner, by experimental rearing in ponds of the fish themselves and of the forms of life which they require for their sustenance.

#### SANCTUARIES

In view of the limitations of bass and maskinonge culture and to fulfill the requirements of these important species in our waters, their protection in a natural state is essential.

From the fisheries standpoint the sanctuary principle consists in having an area completely removed from public or private use. In view of an ever-increasing tourist trade, fishing for the species under discussion will become more and more intensive and, considering the inaccessibility, ease and speed with which our waters may be fished, it becomes increasingly evident that sanctuaries are necessary. Fish sanctuaries fulfill three important purposes:

- They give the fish a chance to grow. Fish do not grow by magic and if we want larger and better fish, we must give them a chance to grow and reproduce normally.
- Sanctuaries act as bases of supply for replenishing outer or adjacent fishing waters.
- 3. They may be very useful for stock and supply.

It is only within comparatively recent years that this fundamental factor in fisheries' management has been pursued with vigor and during the past few years the Department has made marked progress along these lines.

With these facts and also the conservational principles already discussed in mind, the Department's objective is to bring all feasible measures to bear on the problem of maskinonge and bass maintenance and protection, in order to shorten any gap between supply and demand.

During the past spring and summer a biological survey of the Kawartha Lakes was conducted in order to dertemine the most suitable water areas adjacent to lakes and streams to set aside as sanctuaries for bass and maskinonge. As a result, the following areas were established on this basis:

#### (a) In Peterborough County:

Black Duck Lake (Deer Bay), located in the Township of Harvey; Chemong Lake, that portion located in the Township of Smith, Concession 4, Lots 1-3, inclusive;

Duck Ponds (Stony Lake) located immediately east of Gilchrist Bay, between McCracken's Landing and Crow Landing, located in the Township of Dummer;

Katchiwano Lake, that portion located in the vicinity of Lakefield, south of a line drawn from Haig's Point to Webster's Farm, in the Township of Smith;

Little Mud Lake (Chemong Lake) located in the Township of Smith;

Sandy Creek Bay (Buckhorn Lake), located in the Township of Harvey;

Searight's Bay (North River), located in the Township of Belmont;

South Bay (Stony Lake), located in the Township of Dummer;

Taylor's Bay and Munn's Bay (Belmont Lake), located in the Township of Belmont.

#### (b) Victoria County:

Chemong Lake, that portion located in the Township of Emily, Concession 4, Lot 23, and Concession 5, Lots 22 and 23;

Goose Lake, located in the Township of Fenelon;

Goose Lake, located in the Townships of Fenelon and Somerville.

Fishing of any kind is prohibited in these areas, and we believe that they will act as perennial sources of replenishment for the outer waters. In many of the closed areas lunge and large-mouthed black bass live and thrive. In some instances there are mixed environmental conditions, so that small-mouthed black bass is a frequent inhabitant also.

We propose to follow up the action taken by studying the results of this closure from time to time. If there are deficiencies in these closed areas, we propose to remedy these, if possible. For example, conditions in certain areas may be vastly improved by eliminating useless competitors or enemies? A number of areas show distinct possibilities for rearing lunge and bass under controlled conditions.

#### CLOSED WATERS

In addition to the waters closed for purposes of bass and maskinonge propagation, as stated on pages 20 and 21 the following waters were closed for the protection and natural propagation of the species specified, namely:

#### (a) For Maskinonge Propagation:

#### BEAVER CREEK:

Township of Marmora, County of Hastings; from Fidlar's Rapids to the outlet at Crow River. (This stream was also closed for the propagation of black bass).

#### BERRY CREEK:

Located on Crown Lands and on Indian Reserve, Territory 32A, before entering Long Bay of the Lake of the Woods, District of Kenora.

#### (b) For Speckled Trout Propagation:

#### BEAVER CREEK:

Township of Barrie, County of Frontenac, and in the Townships of Anglesea and Kaladar, County of Lennox and Addington.

#### CHIPPEWA CREEK:

Township of Widdifield, District of Nipissing.

#### CRAFT'S CREEK:

Townships of Mountjoy, Jessop, and Murphy, District of Timiskaming.

#### DUCHESNEY CREEK:

Townships of Commanda and Widdifield, District of Nipissing.

#### ELORA CREEK:

Township of Woolwich, County of Waterloo.

#### FINN'S CREEK:

Township of Sullivan, County of Grey.

#### FRASER CREEK:

Township of Cashel, County of Hastings, and in the Township of Effingham, County of Lennox and Addington.

#### LEE'S CREEK:

Township of Keppel, County of Grey.

#### LITTLE OUSE RIVER:

Township of Dummer, County of Peterborough.

#### NIGGER CREEK:

Township of Holland, County of Grey.

#### RAWDON CREEK:

Townships of Huntingdon and Rawdon, County of Hastings.

#### ST. JACOB'S CREEK:

Township of Waterloo, County of Waterloo.

#### SARGENT'S LAKE:

Township of Holland, County of Grey.

#### SPENCER CREEK:

Townships of Beverly and Flamboro, County of Wentworth.

#### STURGEON RIVER:

Townships of Medonte and Tay, County of Simcoe.

(This stream is also closed for the propagation of rainbow trout).

#### TRIBUTARIES TO WILLIAMS LAKE:

Township of Holland, County of Grey.

#### (c) For Aurora Trout Propagation:

#### WHITE PINE LAKE:

Township of Gamble, Timagami Forest Reserve, District of Timiskaming.

#### WATER LEVELS

In view of the shallowness of the water in which maskinonge, pike, black bass, sunfish, minnows and other forage fish spawn, appreciable fluctuations in water levels over such natural spawning areas are detrimental. The Department has appealed to all those responsible for such operations and the Department of Railways and Canals, which has jurisdiction over the Trent Valley Canal System, was supplied with the following data on the waters under their jurisdiction, namely, the fish frequenting the waters, the spawning dates of the various species, and the spawning depths. As a result we look for definite improvement along these lines and information received from our field officers, or those best qualified to judge, indicate that during the past season considerable improvement was evident along these lines.

#### REMOVAL OF COARSE FISH:

Between December 19, 1936, and January 31, 1937, hoop nets were operated for the removal of ling from the following waters:

#### (a) In Leeds County:

Rideau Lake (vicinity of Portland,

Rideau Ferry and Sand Island);

Beverly, Charleston, Crosby, Otter, Sand and Wolf Lakes.

#### (b) In Lanark County:

Tay River, Otty, and Pike Lakes.

#### (c) In Frontenac County:

Crow and Bob's Lakes.

The total number of ling removed from these waters was 12,315. The average weight of the ling taken was four pounds; therefore, the total amount of ling removed was in the neighbourhood of twenty-five tons.

#### FISH PLANTING SURVEYS

The following fish planting surveys were carried out during the year:

WATERS	COUNTY	TOWNSHIP
Almond Creek Earnshaw Creek Ferguson's Pond	Elgin Elgin	Bayham Southwold
Grange Hall CreekLittle Otter Creek	Elgin Elgin Elgin	Southwold Malahide Bayham
Mitchell or Lanner Stream	Norfolk Elgin	Houghton Bayham
Crawford Lake	Halton	Nassagaweya
Wye Creek	Middlesex	Nissouri W.
Echo Lake	Muskoka Muskoka Simcoe	McLean Morrison Matchedash, Orillia
Eckert or Manery's CreekLeach CreekUnnamed Creek	Norfolk Norfolk	Middleton Houghton
(near Courtland)	Norfolk	Middleton
Five Point Stream Hodges Mill Pond McCabe's Creek Tottle Lake	Oxford Oxford Oxford Oxford	Oxford W. Oxford E. Norwich S. Blenheim
Deer River Eels Creek Mississauga River	Peterborough Peterborough Peterborough	Harvey, Burleigh Burleigh, Anstruthe Harvey
Mary Lake	York York York	King Gwillimbury E. Vaughan
•		

#### ACKNOWLEDGMENTS

In conclusion I desire to give expression to my appreciation of the valuable assistance and co-operation received by the Department from many sources during the year.

Our work which at times is unquestionably somewhat difficult has been made the more pleasant and enjoyable by reason of the continued co-operation of interested individuals and the various Fish and Game Protective Associations throughout the Province. My contacts with officers and members of many of these organizations encourages a thought that the work of these Associations has become so well known and their usefulnes so apparent that there is no question as to the place they occupy in the sphere of game and fish conservation.

An obvious result of the gathering together of any group or organization of men to discuss measures for the benefit of all, will be a spread of knowledge resulting in a more enlightened type of citizen, and incidentally a better community to live in. A Sportsmen's Organization accomplishes these things, and, while it is concerned with the conservation of fish and game throughout the Province, it is

primarily interested in seeing that everything possible is done to ensure satisfactory local conditions.

We believe that the work of the Protective Associations throughout the Province is of very great value, and are therefore anxious to encourage the organization and development of these associations wherever possible. The fact of membership in a Fish and Game Protective Association implies good sportsmanship, and good sportsmanship is the key to a liberal enjoyment of those healthful pleasures which are our heritage.

Mention is also made of the fact that generally speaking, members of the staff, both the inside and the outside service, have conducted themselves and performed the duties assigned to them in the best interests of the Department and its varied activities.

All of which is respectfully submitted.

I am, Sir,

Your obedient servant,

D. J. TAYLOR,

Deputy Minister of Game and Fisheries

Toronto 2, March 9th, 1938.

#### APPENDIX No. 1

LARGE-MOUTHED BLACK	BASS	Sharbot Lake	10,000
FRY		Grey:	
Bruce:		Francis Lake	5,000
Agar Lake	15,000	Wilcox Lake	7,500
Arran Lake	10,000		
Constant		Haldimand:	0 = 0 0 0
Grey: McNab Lake	20,000	Grand River	25,000
Meriab Dake	20,000	Haliburton:	
FINGERLINGS		Paudash Lake	10,000
Lanark:		2 00 00 00 00 00 00 00 00 00 00 00 00 00	10,000
Clayton Lake	1,000	Hastings:	
T A		Baptiste Lake	5,000
Leeds:	1,000	Bass Lake	5,000
Gananoque Lake	138*	Crow Lake and river Gunter Lake	5,000
Lower Beverley Lake	2,000	Little Salmon Lake	$5,000 \\ 5,000$
Sand Lake	1,200	Moira Lake	5,000
Whitefish Lake	1,000	Moira River	10,000
Norfolk:		Oak Hill Lake	5,000
Little Lake	560	Pine Lake	5,000
Dittio Dako	000	Stoco Lake	10,000
Parry Sound:		Wadsworth Lake	$5,000 \\ 5,000$
Manitowaba Lake	500	West Lake	3,000
Peterborough:		Huron:	
Rice Lake	1.000	Bluevale River	15,000
* Adults	1,000		
1144165		Lanark:	F 000
SMALL-MOUTHED BLACK	BASS	Fagan's Lake	5,000
DDV		Otty Lake	5,000
FRY Bruce:		Leeds:	
Diuce.			
Britain Lake	5 000	Big Rideau Lake	5,000
Britain Lake	$\begin{smallmatrix}5,000\\10.000\end{smallmatrix}$	Big Rideau Lake Charleston Lake	10,000
Cameron Lake	5,000 10,000 15,000	Big Rideau Lake Charleston Lake Crosby Lake	$10,000 \\ 5,000$
Cameron Lake	10,000 15,000 10,000	Big Rideau Lake	10,000 5,000 5,000
Cameron Lake Chesley Lake Cyprus Lake Gould Lake	10,000 15,000 10,000 15,000	Big Rideau Lake Charleston Lake Crosby Lake Otter Lake Sand Lake	10,000 5,000 5,000 5,000
Cameron Lake Chesley Lake Cyprus Lake Gould Lake Isaac Lake	10,000 15,000 10,000 15,000 15,000	Big Rideau Lake	10,000 5,000 5,000
Cameron Lake Chesley Lake Cyprus Lake Gould Lake Isaac Lake Miller Lake	10,000 15,000 10,000 15,000 15,000 10,000	Big Rideau Lake Charleston Lake Crosby Lake Otter Lake Sand Lake Wolfe Lake	10,000 5,000 5,000 5,000
Cameron Lake Chesley Lake Cyprus Lake Gould Lake Isaac Lake Miller Lake Sauble River	10,000 15,000 10,000 15,000 15,000 10,000 45,000	Big Rideau Lake Charleston Lake Crosby Lake Otter Lake Sand Lake	10,000 5,000 5,000 5,000
Cameron Lake Chesley Lake Cyprus Lake Gould Lake Isaac Lake Miller Lake Sauble River Saugeen River Shouldice Lake	10,000 15,000 10,000 15,000 15,000 10,000	Big Rideau Lake Charleston Lake Crosby Lake Otter Lake Sand Lake Wolfe Lake Lennox-Addington:	10,000 5,000 5,000 5,000 5,000
Cameron Lake Chesley Lake Cyprus Lake Gould Lake Isaac Lake Miller Lake Sauble River Saugeen River	10,000 15,000 10,000 15,000 15,000 10,000 45,000 30,000	Big Rideau Lake Charleston Lake Crosby Lake Otter Lake Sand Lake Wolfe Lake Lennox-Addington: Beaver Lake Varty Lake	10,000 5,000 5,000 5,000 5,000
Cameron Lake Chesley Lake Cyprus Lake Gould Lake Isaac Lake Miller Lake Sauble River Saugeen River Shouldice Lake Silver Lake	10,000 15,000 10,000 15,000 15,000 10,000 45,000 30,000 10,000	Big Rideau Lake Charleston Lake Crosby Lake Otter Lake Sand Lake Wolfe Lake  Lennox-Addington: Beaver Lake Varty Lake  Muskoka:	10,000 5,000 5,000 5,000 5,000 5,000 5,000
Cameron Lake Chesley Lake Cyprus Lake Gyprus Lake Gould Lake Isaac Lake Miller Lake Sauble River Saugeen River Shouldice Lake Silver Lake Frontenac:	10,000 15,000 10,000 15,000 15,000 10,000 45,000 30,000 10,000	Big Rideau Lake Charleston Lake Crosby Lake Otter Lake Sand Lake Wolfe Lake Lennox-Addington: Beaver Lake Varty Lake Muskoka: Bass Lake	10,000 5,000 5,000 5,000 5,000 5,000 5,000
Cameron Lake Chesley Lake Cyprus Lake Cyprus Lake Gould Lake Isaac Lake Miller Lake Sauble River Saugeen River Shouldice Lake Silver Lake Frontenac: Bass Lake	10,000 15,000 10,000 15,000 15,000 10,000 45,000 30,000 10,000 5,000	Big Rideau Lake Charleston Lake Crosby Lake Otter Lake Sand Lake Wolfe Lake Lennox-Addington: Beaver Lake Varty Lake  Muskoka: Bass Lake Buck Lake	10,000 5,000 5,000 5,000 5,000 5,000 5,000
Cameron Lake Chesley Lake Cyprus Lake Gyprus Lake Gould Lake Isaac Lake Miller Lake Sauble River Saugeen River Shouldice Lake Silver Lake Frontenac: Bass Lake Big Clear Lake Bobs Lake	10,000 15,000 10,000 15,000 15,000 10,000 45,000 30,000 10,000 5,000	Big Rideau Lake Charleston Lake Crosby Lake Otter Lake Sand Lake Wolfe Lake  Lennox-Addington: Beaver Lake Varty Lake  Muskoka: Bass Lake Buck Lake Dickie Lake	10,000 5,000 5,000 5,000 5,000 5,000 5,000
Cameron Lake Chesley Lake Cyprus Lake Gyprus Lake Gould Lake Isaac Lake Miller Lake Sauble River Saugeen River Shouldice Lake Silver Lake Frontenac: Bass Lake Big Clear Lake Bobs Lake Bull Lake	10,000 15,000 10,000 15,000 15,000 10,000 45,000 30,000 10,000 5,000	Big Rideau Lake Charleston Lake Crosby Lake Otter Lake Sand Lake Wolfe Lake  Lennox-Addington: Beaver Lake Varty Lake  Muskoka: Bass Lake Buck Lake Dickie Lake Duck Lake Henshaw Lake	10,000 5,000 5,000 5,000 5,000 5,000 10,000 10,000 10,000 10,000 10,000
Cameron Lake Chesley Lake Cyprus Lake Gyprus Lake Gould Lake Isaac Lake Miller Lake Sauble River Saugeen River Shouldice Lake Silver Lake Frontenac: Bass Lake Big Clear Lake Bobs Lake Bull Lake Cross Lake	10,000 15,000 10,000 15,000 10,000 45,000 30,000 10,000 5,000 5,000 5,000 5,000	Big Rideau Lake Charleston Lake Crosby Lake Otter Lake Sand Lake Wolfe Lake  Lennox-Addington: Beaver Lake Varty Lake  Muskoka: Bass Lake Buck Lake Dickie Lake Duck Lake Henshaw Lake Lake Lake Lake Lake Lake Lake	10,000 5,000 5,000 5,000 5,000 5,000 10,000 10,000 10,000 10,000 40,000
Cameron Lake Chesley Lake Cyprus Lake Gould Lake Isaac Lake Miller Lake Sauble River Saugeen River Shouldice Lake Silver Lake Frontenac: Bass Lake Big Clear Lake Bobs Lake Bull Lake Cross Lake Crotch Lake	10,000 15,000 10,000 15,000 10,000 45,000 30,000 10,000 5,000 5,000 5,000 10,000	Big Rideau Lake Charleston Lake Crosby Lake Otter Lake Sand Lake Wolfe Lake  Lennox-Addington: Beaver Lake Varty Lake  Muskoka: Bass Lake Buck Lake Dickie Lake Duck Lake Henshaw Lake Lake Rosseau MacKay's Lake	10,000 5,000 5,000 5,000 5,000 5,000 10,000 10,000 10,000 10,000 40,000 15,000
Cameron Lake Chesley Lake Cyprus Lake Gould Lake Isaac Lake Miller Lake Sauble River Saugeen River Shouldice Lake Silver Lake Frontenac: Bass Lake. Big Clear Lake Bobs Lake Bull Lake Cross Lake Crotch Lake Crow Lake	10,000 15,000 10,000 15,000 10,000 45,000 30,000 10,000 5,000 5,000 10,000 5,000 5,000 5,000 5,000 5,000	Big Rideau Lake Charleston Lake Crosby Lake Otter Lake Sand Lake Wolfe Lake  Lennox-Addington: Beaver Lake Varty Lake  Muskoka: Bass Lake Buck Lake Dickie Lake Duek Lake Henshaw Lake Lake Rosseau MacKay's Lake Pine Lake	10,000 5,000 5,000 5,000 5,000 5,000 10,000 10,000 10,000 10,000 40,000 15,000 15,000
Cameron Lake Chesley Lake Cyprus Lake Gould Lake Isaac Lake Miller Lake Sauble River Saugeen River Shouldice Lake Silver Lake Frontenac: Bass Lake Big Clear Lake Bobs Lake Bull Lake Cross Lake Crotch Lake Crow Lake Eagle Lake	10,000 15,000 10,000 15,000 10,000 45,000 30,000 10,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000	Big Rideau Lake Charleston Lake Crosby Lake Otter Lake Sand Lake Wolfe Lake  Lennox-Addington: Beaver Lake Varty Lake  Muskoka: Bass Lake Buck Lake Dickie Lake Duck Lake Henshaw Lake Lake Rosseau MacKay's Lake Pine Lake Riley Lake	10,000 5,000 5,000 5,000 5,000 5,000 10,000 10,000 10,000 10,000 10,000 15,000 15,000 10,000
Cameron Lake Chesley Lake Cyprus Lake Gould Lake Isaac Lake Miller Lake Sauble River Saugeen River Shouldice Lake Silver Lake Frontenac: Bass Lake Big Clear Lake Bobs Lake Bull Lake Cross Lake Crotch Lake Crow Lake Eagle Lake Kashwakamak Lake Long Lake (Hinchin-	10,000 15,000 10,000 15,000 10,000 45,000 30,000 10,000 5,000 5,000 10,000 5,000 5,000 5,000 5,000 5,000	Big Rideau Lake Charleston Lake Crosby Lake Otter Lake Sand Lake Wolfe Lake  Lennox-Addington: Beaver Lake Varty Lake  Muskoka: Bass Lake Buck Lake Dickie Lake Duck Lake Duck Lake Henshaw Lake Lake Rosseau MacKay's Lake Pine Lake Riley Lake Silver Lake	10,000 5,000 5,000 5,000 5,000 5,000 10,000 10,000 10,000 10,000 40,000 15,000 15,000
Cameron Lake Chesley Lake Cyprus Lake Gould Lake Isaac Lake Miller Lake Sauble River Saugeen River Shouldice Lake Silver Lake Frontenac: Bass Lake Big Clear Lake Bobs Lake Bull Lake Cross Lake Crotch Lake Crotch Lake Eagle Lake Kashwakamak Lake Long Lake (Hinchinbrooke)	10,000 15,000 10,000 15,000 10,000 45,000 30,000 10,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000	Big Rideau Lake Charleston Lake Crosby Lake Otter Lake Sand Lake Wolfe Lake  Lennox-Addington: Beaver Lake Varty Lake  Muskoka: Bass Lake Buck Lake Dickie Lake Duck Lake Henshaw Lake Lake Rosseau MacKay's Lake Pine Lake Riley Lake	10,000 5,000 5,000 5,000 5,000 5,000 10,000 10,000 10,000 10,000 10,000 15,000 15,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000
Cameron Lake Chesley Lake Cyprus Lake Gould Lake Isaac Lake Miller Lake Sauble River Saugeen River Shouldice Lake Silver Lake Frontenac: Bass Lake Big Clear Lake Bobs Lake Bull Lake Cross Lake Crotch Lake Crow Lake Eagle Lake Kashwakamak Lake Long Lake (Hinchinbrooke) Horseshoe Lake	10,000 15,000 10,000 15,000 10,000 45,000 30,000 10,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000	Big Rideau Lake Charleston Lake Crosby Lake Otter Lake Sand Lake Wolfe Lake  Lennox-Addington: Beaver Lake Varty Lake  Muskoka: Bass Lake Buck Lake Dickie Lake Duck Lake Henshaw Lake Lake Rosseau MacKay's Lake Pine Lake Riley Lake Silver Lake Sucker Lake Sucker Lake Sucker Lake Three Mile Lake	10,000 5,000 5,000 5,000 5,000 5,000 10,000 10,000 10,000 10,000 10,000 15,000 15,000 10,
Cameron Lake Chesley Lake Cyprus Lake Gould Lake Isaac Lake Miller Lake Sauble River Saugeen River Shouldice Lake Silver Lake Big Clear Lake Bobs Lake Bull Lake Cross Lake Crotch Lake Crow Lake Eagle Lake Kashwakamak Lake Long Lake (Hinchinbrooke) Horseshoe Lake Marble Lake	10,000 15,000 10,000 15,000 10,000 45,000 30,000 10,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000	Big Rideau Lake Charleston Lake Crosby Lake Otter Lake Sand Lake Wolfe Lake  Lennox-Addington: Beaver Lake Varty Lake  Muskoka: Bass Lake Buck Lake Dickie Lake Duek Lake Henshaw Lake Lake Rosseau MacKay's Lake Riley Lake Silver Lake Sucker Lake Sucker Lake Three Mile Lake Northumberland:	10,000 5,000 5,000 5,000 5,000 5,000 10,000 10,000 10,000 15,000 15,000 10,000 10,000 20,000
Cameron Lake Chesley Lake Cyprus Lake Gould Lake Isaac Lake Miller Lake Sauble River Saugeen River Shouldice Lake Silver Lake Frontenac: Bass Lake Big Clear Lake Bobs Lake Bull Lake Cross Lake Crotch Lake Crow Lake Eagle Lake Kashwakamak Lake Long Lake (Hinchinbrooke) Horseshoe Lake	10,000 15,000 10,000 15,000 10,000 45,000 30,000 10,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000	Big Rideau Lake Charleston Lake Crosby Lake Otter Lake Sand Lake Wolfe Lake  Lennox-Addington: Beaver Lake Varty Lake  Muskoka: Bass Lake Buck Lake Dickie Lake Duck Lake Henshaw Lake Lake Rosseau MacKay's Lake Pine Lake Riley Lake Silver Lake Sucker Lake Sucker Lake Sucker Lake Three Mile Lake	10,000 5,000 5,000 5,000 5,000 5,000 10,000 10,000 10,000 10,000 10,000 15,000 15,000 10,

SMALL-MOUTHED BLACK —Continued	BASS	Loon Lake	1,000
Continueu		Kent:	
Parry Sound:		Rondeau Bay	350
Bass Lake	10,000	·	
		Lanark:	
Peterborough:		Bartram Lake	1,000
Belmont Lake	2,500	Christie Lake	500
Buckhorn Lake	5,000	Dalhousie Lake	1,000
Clear Lake	5,000	Long Lake	1,000
Deer Lake	5,000	Mississippi Lake	1,000
Little Cedar Lake	5,000	Mississippi River Pike Lake	1,000
Loon Lake	$\begin{smallmatrix}10,000\\5,000\end{smallmatrix}$	Fike Lake	500
Otonabee River	5,000	Leeds:	
Pigeon Lake	5,000	Benson Lake	1,000
Rice Lake	5,000	Crow Lake	1,000 $1,000$
Round Lake	5,000	Gananoque Lake	1,000
Sandy Lake	5,000	Newborough Lake	1,000
Sandy Dake	0,000	Troy Lake	1,000
Prince Edward:		Whitefish Lake	1,000
Consecon Lake	5,000		1,000
Roblin's Lake	5,000	Lennox-Addington:	
		Long Lake	1,000
Stormont:		South Beaver Lake	1,000
St. Lawrence River	5,000	White Lake	1,000
Victoria:	- 000	MUSKOKA:	
Sturgeon Lake	5,000	Lake Joseph	1,000
*** 4 1		Lake Stewart	1,000
Waterloo:	25,000	Little Sand Lake	500
Conestoga River	25,000	Long Lake	1,000
Grand River	23,000	Muskoka Lake	1,000
		Nine Mile Lake	1,000
FINGERLINGS		Norfolk	
FINGERLINGS Carleton:		Norfolk:	500
	1,000	Norfolk: Nanticoke Creek	500
Carleton: Ottawa River	1,000	Nanticoke Creek	500
Carleton: Ottawa River	·	Nanticoke Creek Parry Sound:	
Carleton: Ottawa River  Frontenac: Bear Lake	1,000	Nanticoke Creek  Parry Sound: Ahmic Lake	500
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake	1,000 1,000	Nanticoke Creek  Parry Sound: Ahmic Lake  Beaver Lake	500 500
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake	1,000 1,000 1,000	Nanticoke Creek  Parry Sound: Ahmic Lake  Beaver Lake  Bella Lake	500 500 500
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake	1,000 1,000 1,000 1,000	Nanticoke Creek  Parry Sound: Ahmic Lake  Beaver Lake  Bella Lake  Bells Lake	500 500 500 500
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake	1,000 1,000 1,000 1,000 1,000	Nanticoke Creek  Parry Sound: Ahmic Lake Beaver Lake Bella Lake Bells Lake Bilson Lake	500 500 500
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake Draper Lake	1,000 1,000 1,000 1,000 1,000 1,000	Nanticoke Creek  Parry Sound: Ahmic Lake  Beaver Lake  Bella Lake  Bells Lake	500 500 500 500 500
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake Draper Lake Long Lake (Clarendon)	1,000 1,000 1,000 1,000 1,000	Nanticoke Creek  Parry Sound: Ahmic Lake Beaver Lake Bella Lake Bells Lake Bilson Lake Blackburn Lake	500 500 500 500 500 500
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake Draper Lake Long Lake (Clarendon) Long Lake (Portland)	1,000 1,000 1,000 1,000 1,000 1,000 1,000	Nanticoke Creek  Parry Sound: Ahmic Lake Beaver Lake Bella Lake Bells Lake Bilson Lake Blackburn Lake Cecebe Lake	500 500 500 500 500 500 500
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake Draper Lake Long Lake (Clarendon) Long Lake (Portland) Loughborough Lake	1,000 1,000 1,000 1,000 1,000 1,000 1,000	Nanticoke Creek  Parry Sound: Ahmic Lake Beaver Lake Bella Lake Bells Lake Bilson Lake Blackburn Lake Cecebe Lake Clear Lake Cummings Lake Darlington Lake	500 500 500 500 500 500 500 500 500
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake Draper Lake Long Lake (Clarendon) Long Lake (Portland)	1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	Parry Sound: Ahmic Lake Beaver Lake Bella Lake Bells Lake Bilson Lake Blackburn Lake Cecebe Lake Clear Lake Darlington Lake Deer Lake (Lount)	500 500 500 500 500 500 500 1,000
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake Draper Lake Long Lake (Clarendon) Long Lake (Portland) Loughborough Lake Lucky Lake	1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	Parry Sound: Ahmic Lake Beaver Lake Bella Lake Bells Lake Bilson Lake Blackburn Lake Cecebe Lake Clear Lake Darlington Lake Deer Lake (Lount) Devolve Lake	500 500 500 500 500 500 500 1,000 500 1,000
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake Draper Lake Long Lake (Clarendon) Long Lake (Portland) Loughborough Lake Lucky Lake Mazinaw Lake	1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	Parry Sound: Ahmic Lake Beaver Lake Bella Lake Bells Lake Bilson Lake Blackburn Lake Cecebe Lake Cummings Lake Darlington Lake Deer Lake (Lount) Devolve Lake	500 500 500 500 500 500 500 1,000 500 1,000 1,000
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake Draper Lake Long Lake (Clarendon) Long Lake (Portland) Loughborough Lake Lucky Lake Mazinaw Lake Pine Lake	1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	Parry Sound: Ahmic Lake Beaver Lake Bella Lake Bells Lake Bilson Lake Blackburn Lake Cecebe Lake Cummings Lake Darlington Lake Deer Lake (Lount) Devolve Lake Head of Lake Joseph	500 500 500 500 500 500 500 1,000 500 1,000 500
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake Draper Lake Long Lake (Clarendon) Long Lake (Portland) Loughborough Lake Lucky Lake Mazinaw Lake Pine Lake Schooner Lake Silver Lake Spectacle Lake	1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	Parry Sound: Ahmic Lake Beaver Lake Bella Lake Bells Lake Bilson Lake Blackburn Lake Cecebe Lake Clear Lake Darlington Lake Deer Lake (Lount) Devolve Lake Doe Lake	500 500 500 500 500 500 500 1,000 1,000 1,000 1,000
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake Draper Lake Long Lake (Clarendon) Long Lake (Portland) Loughborough Lake Lucky Lake Mazinaw Lake Pine Lake Schooner Lake Silver Lake Spectacle Lake Sydenham Lake	1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	Parry Sound: Ahmic Lake Beaver Lake Bella Lake Bells Lake Bilson Lake Blackburn Lake Ceeebe Lake Clear Lake Cummings Lake Darlington Lake Deer Lake Lee Lake Doe Lake Doe Lake Doe Lake Lount) Devolve Lake Doe Lake Head of Lake Joseph Lake of Many Islands Little Clam Lake	500 500 500 500 500 500 500 500 1,000 1,000 1,000 500 500
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake Draper Lake Long Lake (Clarendon) Long Lake (Portland) Loughborough Lake Lucky Lake Mazinaw Lake Pine Lake Schooner Lake Silver Lake Spectacle Lake Sydenham Lake Thirteen Island Lake	1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	Parry Sound: Ahmic Lake Beaver Lake Bella Lake Bells Lake Bilson Lake Blackburn Lake Cecebe Lake Clear Lake Cummings Lake Darlington Lake Deer Lake (Lount) Devolve Lake Doe Lake Head of Lake Joseph Lake of Many Islands Little Clam Lake Little Deer Lake	500 500 500 500 500 500 500 1,000 1,000 1,000 1,000 500 500 500 500
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake Draper Lake Long Lake (Clarendon) Long Lake (Portland) Loughborough Lake Lucky Lake Mazinaw Lake Pine Lake Schooner Lake Silver Lake Spectacle Lake Sydenham Lake Thirteen Island Lake Thirty Island Lake	1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	Parry Sound: Ahmic Lake Beaver Lake Bella Lake Bells Lake Bilson Lake Blackburn Lake Cecebe Lake Clear Lake Cummings Lake Darlington Lake Deer Lake (Lount) Devolve Lake Head of Lake Joseph Lake of Many Islands Little Clam Lake Magnetawan River	500 500 500 500 500 500 500 1,000 500 1,000 500 1,000 500 500 500 500
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake Draper Lake Long Lake (Clarendon) Long Lake (Portland) Loughborough Lake Lucky Lake Mazinaw Lake Pine Lake Schooner Lake Silver Lake Spectacle Lake Sydenham Lake Thirteen Island Lake	1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	Parry Sound: Ahmic Lake Beaver Lake Bella Lake Bells Lake Bilson Lake Blackburn Lake Cecebe Lake Clear Lake Darlington Lake Darlington Lake Deer Lake (Lount) Devolve Lake Head of Lake Joseph Lake of Many Islands Little Clam Lake Little Deer Lake Magnetawan River Manitowaba Lake	500 500 500 500 500 500 1,000 500 1,000 500 1,000 500 500 500 500 500 500
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake Draper Lake Long Lake (Portland) Loughborough Lake Lucky Lake Mazinaw Lake Pine Lake Schooner Lake Silver Lake Spectacle Lake Sydenham Lake Thirteen Island Lake Thirty Island Lake White Lake	1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	Parry Sound: Ahmic Lake Beaver Lake Bella Lake Bells Lake Bilson Lake Bilson Lake Bilson Lake Cecebe Lake Clear Lake Cummings Lake Darlington Lake Darlington Lake Deer Lake Lount) Devolve Lake Doe Lake Lount Lake Doe Lake Doe Lake Doe Lake Doe Lake Magnetawan River Manitowaba Lake Magnet Lake Magnet Lake Magnet Lake Magnet Lake Magnet Lake Magnet Lake	500 500 500 500 500 500 500 1,000 1,000 1,000 500 500 500 500 500 500 500
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake Draper Lake Long Lake (Clarendon) Long Lake (Portland) Loughborough Lake Lucky Lake Mazinaw Lake Pine Lake Schooner Lake Silver Lake Sydenham Lake Thirteen Island Lake Thirty Island Lake White Lake Halton:	1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	Parry Sound: Ahmic Lake Beaver Lake Bella Lake Bells Lake Bilson Lake Bilson Lake Blackburn Lake Cecebe Lake Clear Lake Cummings Lake Darlington Lake Darlington Lake Deer Lake Lount) Devolve Lake Doe Lake Little Clam Lake Little Deer Lake Magnetawan River Manitowaba Lake Mary Jane Lake	500 500 500 500 500 500 500 1,000 1,000 1,000 500 500 500 500 500 500 500
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake Draper Lake Long Lake (Clarendon) Long Lake (Portland) Loughborough Lake Mazinaw Lake Pine Lake Schooner Lake Silver Lake Spectacle Lake Sydenham Lake Thirteen Island Lake Thirty Island Lake White Lake Halton: Bronte Creek	1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	Parry Sound: Ahmic Lake Beaver Lake Bella Lake Bella Lake Bilson Lake Bilson Lake Blackburn Lake Cecebe Lake Clear Lake Cummings Lake Darlington Lake Deer Lake (Lount) Devolve Lake Doe Lake Head of Lake Joseph Lake of Many Islands Little Clam Lake Little Deer Lake Magnetawan River Manitowaba Lake Mary Jane Lake McGowan Lake	500 500 500 500 500 500 500 1,000 1,000 1,000 500 500 500 500 500 500 500
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake Draper Lake Long Lake (Clarendon) Long Lake (Portland) Loughborough Lake Lucky Lake Mazinaw Lake Pine Lake Schooner Lake Silver Lake Sydenham Lake Thirteen Island Lake Thirty Island Lake White Lake Halton:	1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	Parry Sound: Ahmic Lake Beaver Lake Bella Lake Bells Lake Bilson Lake Blackburn Lake Cecebe Lake Clear Lake Cummings Lake Darlington Lake Deer Lake Lake Doe Lake Doe Lake Little Clam Lake Little Deer Lake Magnetawan River Manitowaba Lake Mary Jane Lake MacGowan Lake Neighick Lake	500 500 500 500 500 500 500 1,000 1,000 1,000 500 500 500 500 500 500 500
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake Draper Lake Long Lake (Clarendon) Long Lake (Portland) Loughborough Lake Mazinaw Lake Pine Lake Schooner Lake Silver Lake Spectacle Lake Sydenham Lake Thirteen Island Lake Thirty Island Lake White Lake Halton: Bronte Creek Oakville Creek	1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	Parry Sound: Ahmic Lake Beaver Lake Bella Lake Bells Lake Bilson Lake Blackburn Lake Cecebe Lake Clear Lake Cummings Lake Darlington Lake Darlington Lake Deer Lake (Lount) Devolve Lake Doe Lake Head of Lake Joseph Lake of Many Islands Little Clam Lake Little Deer Lake Magnetawan River Manitowaba Lake Mary Jane Lake McGowan Lake Neighick Lake	500 500 500 500 500 500 500 1,000 1,000 1,000 500 500 500 500 500 500 500
Carleton: Ottawa River  Frontenac: Bear Lake Canonto Lake Chippego Lake Crotch Lake Desert Lake Draper Lake Long Lake (Clarendon) Long Lake (Portland) Loughborough Lake Mazinaw Lake Pine Lake Schooner Lake Silver Lake Spectacle Lake Sydenham Lake Thirteen Island Lake Thirty Island Lake White Lake Halton: Bronte Creek	1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	Parry Sound: Ahmic Lake Beaver Lake Bella Lake Bells Lake Bilson Lake Blackburn Lake Cecebe Lake Clear Lake Cummings Lake Darlington Lake Deer Lake Lake Doe Lake Doe Lake Little Clam Lake Little Deer Lake Magnetawan River Manitowaba Lake Mary Jane Lake MacGowan Lake Neighick Lake	500 500 500 500 500 500 500 1,000 500 1,000 500 500 500 500 500 500 500

SMALL-MOUTHED BLACK —Continued	BASS	NOTE: All adult bass were harvested from natural waters in the areas or districts specified, excepting the last
Parry Sound—Cont.		item.
Rainy Lake	500	
Rankin's Lake	500	MASKINONGE
Sequin River	500	777
Shawanaga Lake	500	$\operatorname{FRY}$
Shebeshekong Lake	500	Hastings:
Turtle Lake	1,000	Crow River 10,000
Whitefish Lake	1,000	
Whitestone Lake	500	Northumberland:
Renfrew:		Crow Bay 5,000
Moccasin Lake	1,000	Rice Lake 30,000
White Lake	1,000	Trent River 27,000
white Dake	1,000	Dotonhamanak
Russell:		Peterborough:
Castor River	500	Buckhorn Lake 5,000
C45001 201101 11111111111		Chemong Lake
ADULTS		-
Haliburton:	200	
Beach Lake	300	Lovesick Lake 10,000 Otonabee River 5,000
Black Lake	300	
Brady Lake	300	
Davis Lake	300	Trent River 10,000
Grace Lake	$\begin{smallmatrix}600\\300\end{smallmatrix}$	Prince Edward:
Gull Lake	300	Muscote Bay 12,000
Hurricane Lake	300	12,000
Kashagawigamog Lake Saskatchewan Lake	300	Simcoe:
Sover Lake	300	Holland River 25,000
Soyer Lake	300	
Kenora:		Victoria:
Long Lake	43	Balsam Lake 30,000
3		Pigeon River 30,000
Kent:		Sturgeon Lake 5,000
Rondeau Bay	<b>160</b>	PERCH
***		
Leeds:	445	Essex:
Beverley Lake	115	Lake Erie
Gananoque Lake	100	PICKEREL
T 1 A 3 3 2 1		Algoma:
Lennox and Addington:	114	4.1
Weslemkoon Lake	114	73 1 7 1 7 1
Muskoka:	4 7 0	
Deep Bay (Sparrow Lake)	150	
		Desbarats Lake 500,000 Echo Lake 410,000
Rainy River:		Gordon Lake 500,000
Clearwater Lake	240	Little Bass Lake 500,000
Jackfish Lake	25	Little Clear Lake 250,000
One-sided Lake	200	Long Lake 1,000,000
Pipestone Lake	25	Mississauga Lake 1.000.000
~		Rock Lake 500,000
Sudbury:		300,000
French River	30	Brant:
		Grand River 500,000
Victoria:		
Pigeon Lake	300	Bruce:
Sturgeon Lake	300	Chesley Lake 100,000
		Isaac Lake 500,000
Wellington:		Saugeen River 1,500,000
Reformatory Pond	100	Silver Lake 200,000

PICKEREL—Continued	l	Eagle Lake 2,500,000 Granite Lake 100,000
Carleton:		Lake of the Woods18,200,000
Ottawa River	400,000	Long Pine Lake 200,000
Rideau River	300,000	Lulu Lake 1,000,000
0.1		Marchington Lake 2,000,000
Cochrane:	250,000	Stanzikihimi Lake 2,000,000
Barber's Bay Mortimer Lake	250,000	Wabigoon Lake 500,000
Reid Lake	250,000	Lanark:
Remi Lake	500,000	Bennet's Lake 300,000
Wilson Lake	250,000	Big Rideau Lake 1.300.000
		Black Lake 200,000
Frontenac:		Christies Lake 200,000
Big Clear Lake	250,000	Dalhousie Lake 700,000
Bobs Lake	500,000	Joe's Lake 100,000
Bull Lake	250,000	Lower Rideau 1,500,000
Clear Lake	100,000	Mississippi Lake 300,000
Crow Lake  Devil Lake	$200,000 \\ 100,000$	Mississippi River         500,000           Patterson's Lake         200,000
Fourteen Island Lake	300,000	Patterson's Lake 200,000 Rideau River 500,000
Green Lake	100,000	Titucau Itivoi 300,000
Gull Lake	500,000	Leeds:
Horseshoe Lake	100,000	Bass Lake 500,000
Kashwakamak Lake	500,000	Crosby Lake 200,000
Lake Chippego	200,000	Higley Lake 500,000
(Little) Mississagagon		Opinicon Lake 400,000
Lake	200,000	Sand Lake 100,000
Long Lake (Hinchin-	000 000	West Rideau Lake 500,000
brooke)	200,000	I annow and Addingtons
Long Lake (Portland) Malcolm Lake	500,000 100,000	Lennox and Addington: Bass Lake
Marble Lake	200,000	Long Lake 400,000
Mississagagon Lake	200,000	Napanee River 250,000
Mississippi River	500,000	South Beaver Lake 250,000
Rock Lake	300,000	White Lake 400,000
Salmon River	100,000	
Sand Lake	500,000	Manitoulin:
Sharbot Lake	700,000	Kagawong Lake 2,000,000
Silver Lake	100,000	Lake Mindemoya 1,000,000
Grenville:		Muskoka:
Nation River	100,000	Allan's Lake 100,000
		Bins Lake 100,000
Grey:	100 000	Henshaw Lake 100,000
Mountain Lake	100,000	Kahshe Lake 250,000
Haliburton:		Lake Muskoka 1,000,000
Paudash Lake	400,000	Lake Rosseau 1,400,000 Long Lake 100,000
Tuddin Zano	100,000	Long Lake
Hastings:		Mootes Lake 100,000
Fraser Lake	200,000	Silver Lake 100,000
Moira Lake	300,000	Six Mile Lake 500,000
Moira River	200,000	Sparrow Lake 2,000,000
Soyers Lake	200,000	(eggs)
Stoco Lake	300,000	Spence Lake 100,000
York River	200,000	Spring Lake 50,000
**		Sucker Lake
Huron:	200 000	Three Mile Lake 200,000
Fordwich Mill Pond	200,000	Niniggings
Kenora:		Nipissing: Bruce Lake 100,000
Berry Lake	100,000	Cache Lake
Big Vermilion Lake 2		Champlain Lake 500,000
Dogtooth Lake	150,000	Finlayson Lake 100,000
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PICKEREL—Continued		Prince Edward:	
		Bay of Quinte 1	0.502.000
Nipissing—Continued		Consecon Lake	
Jumping Caribou Lake	200,000	East Lake	
Lake Nosbonsing	500,000		,
Lake Talon	250,000	Rainy River:	
Lake Timagami1,	700,000	Beaverhouse Lake	1,000,000
Martin Lake	300,000	Clearwater Lake	
McPhee Lake	100,000	Off Lake	1,000,000
Red Cedar Lake	300,000	Quill Lake	
Tilden Lake	100,000	Rainy Lake	
Wasing Lake	300,000	Windigo Lake	
Wickstead Lake	300,000	3	,,
	100,000	Renfrew:	
	,	Blackfish Lake	200,000
Northumberland:		Chats Lake	1,000,000
Crow Bay	250,000	Golden Lake	1,000,000
	250,000	Madawaska River	
	500,000	Norway Lake	300,000
Rice Lake		Ottawa River	200,000
Trent River 1,	000.000	Petawawa River	900,000
	,	Sturgeon Lake	600,000
Oxford:			,
	500,000	Russell:	
Danc Disgar	000,000	Castor River	100,000
Parry Sound:			•
Ahmic Lake	000 000	Simcoe:	
	200,000	Gloucester Pool	2,500,000
	100,000	Lake Couchicing	4,000,000
	100,000	Little Lake	400,000
	200,000	Matchedash Bay	2,000,000
	100,000	Nottawasaga River	
	300,000	Severn River	500,000
Doe Lake	200,000		
	500,000	Stormont:	
	200,000	Nation River	100,000
	250,000	St. Lawrence River	2,037,500
	250,000		
	250,000	Sudbury:	
	100,000	Bear Lake	500,000
	400,000	Birch Lake	250,000
	400,000	Lake Penage	
	100,000	Matagamasi Lake	250,000
	250,000	Onaping Lake	
	200,000	Ox Lake	
	100,000	Ramsay Lake	
	200,000	Trout Lake	250,000
	250,000	Unnamed Lake	
	100,000	Wanapitei Lake	1,000,000
	200,000	mi i n	
	100.000	Thunder Bay:	100000
	100,000	Baril Lake	100,000
	250,000	Cordingley Lake	250,000
	300,000	Lake of the Flats	100,000
	200,000	Lake Shebandowan	200,000
	100,000	Timiskaming:	
	300,000	Hound Chutes	100,000
	100,000	Lake Timiskaming	500,000
	_ 00,000	Montreal River	200,000
Peterborough:		Net Lake	100,000
	250.000	Rib Lake	100,000
Otonabee River and	_ 50,000	Round Lake	100,000
Little Lake	200.000	Sesekinika Lake	800,000
	410,000	Trout Lake	100,000
	250,000	Twin Lake	100,000
	.,		, 0

PICKEREL—Continued Victoria: Lake Dalrymple Mud Turtle Lake Round Lake Young's Lake	500,000 100,000 500,000 200,000	Peterborough: Deer Bay Creek Dickson's Creek Eel's Creek Jack's Creek Mississauga River Nogies Creek	1,500 1,500 1,000 1,500 1,500 1,500
Great Lakes:         Lake Huron         64           Georgian Bay         2           North Channel         4           Lake Superior         20	2,000,000 1,300,000	Simcoe: Nottawasaga River Demonstration purposes YEARLINGS	10,000 50
NOTE: Planting for Lake Onta under Bay of Quinte (Prince County)		Brant: Whiteman's Creek	1,000
		Elgin: Little Otter River	1,000
BROWN TROUT		Grey:	
FINGERLINGS		Beaver River (lower reaches) Big Head River	$1,120 \\ 1,125$
Brant: Whiteman's Creek	5,000	Simcoe: Nottawasaga River	3,000
Bruce: Cameron Lake	5,000	Demonstration purposes	45
Crane Lake	5,000 5,000 5,000	LAKE TROUT	
Saugeen River	$\begin{smallmatrix}10,000\\5,000\end{smallmatrix}$	FRY Frontenac:	50.000
Carleton: Mississippi River	2,000	Big Gull Lake Buckshot Lake Camp Lake	50,000 4,000 4,000
Durham: Baxter's Creek	1,500	Canonto Lake Crow Lake Devil Lake	15,000 $20,000$
Elgin: Little Otter River	5,000	Draper Lake Long Lake Mackie Lake	$10,000 \\ 25,000 \\ 4,000$
Grey: Big Head River Creamery Creek	$10,000 \\ 2,000$	Mississagagon Lake  Palmerston Lake  Rock Lake	4,000 4,000 4,000
Harrison Park Creek Potawatami River	5,000 $12,000$	Thirty Island Lake Leeds:	55,000
Saugeen River Styx River Sydenham River	$15,000 \\ 5,000 \\ 5,000$	Big Rideau	25,000 $45,000$ $10,000$
Weatherspoon Creek Haldimand:	3,000	Otter Lake	15,000 30,000
Grand River	5,000	Lennox-Addington: Mazinaw Lake Otter Lake	25,000 10,000
N. Branch Sixteen Mile Creek	7,000	Silver Lake	10,000 5,000
Manitoulin: River Manitou	10,000	Great Lakes: Lake Ontario	
Norfolk: Nanticoke Creek	1,000	Channel	100,000

Lake Trout—Continue	d	East Lake	4,000
EYED EGGS		Gull Lake	15,000
	2 900 000	Haliburton Lake	15,000
Exchange	9.400	Hall's Lake	10,000
Demonstration purposes	3,400	Hawke Lake	4,000
		Hollow Lake	8,000
FINGERLINGS		Horseshoe Lake	5,000
Algoma:		Kashawigamog Lake	10,000
Achigan Lake	20,000	Kimball Lake Kushog Lake	$\frac{4,000}{10,000}$
Basswood Lake	25,000	Little Boskung Lake	10,000
Big Bear Lake	15,000	Little Hawke Lake	10,000
Chiblow Lake	50,000	Maple Lake	5,000
Clear Lake (188)	70,000	Moose Lake	5,000
Cumming Lake	10,000	Mountain Lake	10,000
Deep Lake	10,000	McFadden Lake	4,000
Hawk Lake	$10,000 \\ 10,000$	Oblong Lake	5,000
Hobon Lake	15,000	Otter Lake	10,000
Jobammeghia Lake	15,000	Paudash Lake	4,000
Lake Matinenda	25,000	Pine Lake	5,000
Lake Tendinenda	25,000	Redstone Lake	$10,000 \\ 5,000$
Lake of the Mountains	10,000	South Bay	4,000
Lonely Lake	10,000	Stormy Lake	5,000
Loon Lake	10,000	St. Norah's Lake	4,000
Moose Lake	25,000	Twelve Mile Lake	10,000
McCarroll's Lake	10,000	White Trout Lake	4,000
Patten Lake	25,000	Wolf Lake	5,000
Pickerel Lake	10,000	TT 11	
Raw Hide Lake	$15,000 \\ 30,000$	Hastings:	80.000
Red Deer Lake	10,000	Baptiste Lake Bass Lake	80,000 4,000
Sand Lake	25,000	Bay Lake	4,000
Stuart Lake	25,000	Big Egan Lake	4,000
Trout Lake (Aweres)	10,000	Big Salmon Lake	4,000
Trout Lake (24-R-12)	10,000	Clear Lake (Herschel)	60,000
Upper Island Lake	10,000	Clear Lake (Lake)	4,000
Weckstrom's Lake	5,000	Eagle Lake	4,000
Bruce:		Jamieson Lake	4,000
Gillies Lake	27,000	Kaminiskeg Lake	25,000
diffes Bane	21,000	Limestone Lake	$\frac{2,000}{4,000}$
Cochrane:		Little Salmon Lake Lavelle Lake	4,000
Chapman Lake	10,000	Long Lake (Mayo)	6,000
Nellies Lake	10,000	Quinlan Lake	2,000
Perry Lake	10,000	Robinson Lake	2,000
Frontenac:		Trout Lake (Herschel)	60,000
Canonto Lake	4.000	Weslemkoon Lake	4,000
Crotch Lake	$\frac{4,000}{4,000}$	Wan and t	
Eagle Lake	4,000	Kenora: Armstrong Lake	50,000
Green Lake	5,000	Big Stone Lake	6,000
Grindstone Lake	4,000	Big Vermilion Lake	110,000
Sharbot Lake	4,000	Clearwater Bay	125,000
		Cul de Sac Lake	50,000
Haliburton:	F 000	Dogtooth Lake	50,000
Bear Lake (Glamorgan) Bear Lake (Livingstone)	5,000	Eagle Lake	50,000
Beech Lake (Livingstone)	4,000	Granite Lake	50,000
Big Boskung Lake	$\begin{smallmatrix}5,000\\10,000\end{smallmatrix}$	Silver Lake	50,000
Bow Lake	5,000	Trout Lake	$50,000 \\ 75,000$
Clearwater Lake	4,000	Whitefish Bay	(5,000
Davis Lake	5,000	Lanark:	
Drag Lake	10,000	Lower Rideau	30,000
Eagle Lake	5,000	Silver Lake	30,000

Lake Trout—Continued		Clear Lake (Humphry) Eagle Lake	4,000 8,000
Manitoulin:		Eleanor Lake	4,000
Kagawong Lake	25,000	Foley Lake	4,000
Manitou Lake	25,000	Head of Lake Joseph	4,000
26. 3. 1.		Horn Lake	8,000
Muskoka:	4.000	Lorimer Lake	8,000
Bass Lake	$\frac{4,000}{4,000}$	Otter Lake	8,000
Benson's Lake	4,000	Portage Lake	4,000 8,000
Big Twin Lake	4,000	Star Lake	4,000
Britannia Bay	4.000	Three Legged Lake	8,000
Bruce's Lake	4,000	Trout Lake	4,000
Clear Lake (McLean)	4,000	Whitefish Lake	4,000
Clear Lake (Ridout)	4,000		
Clear Lake (Sinclair)	4,000	Renfrew:	
Fairy Lake	8,000	Bark Lake	25,000
Fox Lake	4,000	Barry's Bay	10,000
Haystack Bay	4,000	Blackfish Bay	10,000
Lake of Bays	16,000	Carson Lake	10,000
Lake Joseph Lake Muskoka	$16,000 \\ 18,000$	Condon Lake	10,000
Lake Rosseau	24.000	Diamond Lake	10,000
Little Clear Lake	4.000	Greenan's Lake	5,000
Little Twin Lake	4,000	Lake Clear	25,000
Long Lake	4,000	Long Lake Lower Carson Lake	$25,000 \\ 10,000$
Loon Lake	4,000	Pog Lake	15,000
Mary's Lake	4,000	Round Lake	10,000
McCrea's Lake	4,000	Trout Lake (Griffith)	15,000
Peninsula Lake	8,000	Trout Lake (Sherwood)	10,000
Portage Bay and Narrows	4,000	Wadsworth's Lake	20,000
Poverty Lake	4,000		
Rebecca Lake	4,000	Simcoe:	
St. Mary's Lake Skeleton Lake	$\frac{4,000}{16,000}$	Lake Simcoe	34,000
Sucker Lake	4,000		
Ten Mile Lake	4,000	Sudbury:	
Trout Lake	4,000	Bell Lake	50,000
Vernon Lake	8,000	Ella Lake	10,000
Waseosa Lake	4,000	Lake Penage	25,000
Minimaina		Long Lake	10,000
Nipissing: Buck Lake	5,000	Loon Lake	25,000
Cameron Lake	10,000	Ramsay Lake Trout Lake	$10,000 \\ 15,000$
Canoe Lake	8,000	Wanapitei Lake	25,000
Cross Lake	10,000	Weiguid Lake	25,000
Dotty's Lake	4,000	Windy Lake	25,000
Jumping Caribou Lake	15,000		
Lake Timagami	50,000	Thunder Bay:	
Martin Lake	15,000	Baril Lake	50,000
Moore's Lake	10,000	Brown Lake	25,000
Oxbow Lake	4,000	Jarvis Bay	100,000
Red Cedar Lake Round Lake	$\begin{smallmatrix}15,000\\4,000\end{smallmatrix}$	Lac Des Mille Lacs	50,000
Smoke Lake	8,000	McKenzie Lake	50,000
South Tea Lake	8,000	Surprise Lake	20,000
Sturgeon Lake	10,000	Twin Lakes	75,000
Trout Lake	45,000	Wawon Lake	25,000
Turtle Lake	15,000	Timiskomina	
Two Rivers Lake	10,000	Timiskaming:	25 000
Whitney Lake	10,000	Larder Lake Net Lake	$25,000 \\ 10,000$
Wilson Lake	15,000	Rib Lake	15,000
Parry Sound:		Twin Lake	15,000
Bay Lake	4,000	Trout Lake	15,000
Clear Lake (Perry)	4,000	Watabeag Lake	15,000
		-	

SPECKLED TROUT

## SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1st, 1936, to March 31st, 1937—Continued

Lake Trout—Continued

Victoria:		$\mathbf{FRY}$	
Birch Bark Lake	5,000	Hastings:	
Great Lakes:		Fraser Creek	25,000
Georgian Bay	509,000	Squire's Creek	25,000
Lake Huron and North		Northumberland:	
Channel 6,4	170,000	Black's Creek	25,000
Lake Superior 3,7	45,244	Dawson Creek	40,000
Lake Ontario	45,244	Heffernan's Creek	25,000
		Pegman's Creek	25,000
RAINBOW TROUT		Parry Sound:	
FINGERLINGS		Howard Stream	7,000
		Dutan Bland.	
Algoma: Chippewa River	2,000	Prince Edward: Warings Creek	10,000
Chippewa itivei	2,000	warings Creek	10,000
Bruce:			
Teeswater River	10,000	EYED EGGS	
Dufferin:		Thunder Bay:	
Lower Nottawasaga River	10,000	Bear Lake	2,000
		Clegg Lake	5,000 $2,000$
Elgin:	9 000	Hilma Lake	5,000
St. Thomas Reservoir	2,000	Himdick Lake	2,000
Grey:		Moose_Lake	5,000
Sheppard's Lake	17,000	Pine Lake	2,000
Sydenham River	30,000	Sand Beach Lake	2,000
Norfolk:		Demonstration purposes	3,600
Black Creek	10,000		
Lynn River	5,000	DINGED LINGS	
North Creek	4,000	FINGERLINGS	
Young's Creek	5,000	Algoma:	F 000
Simcoe:		Arnill Lake	5,000 $5,000$
Brough's Creek	5,000	Boundary Lake	1,500
Co. Abornos		Burnt Island Lake	15,000
Sudbury: Emery Creek	5,000	Centre Lake	1,500
Sauble River	2,000	Franklin Lake Havilah Lake	1,500 $1,500$
0.0		McKinnon's Creek	1,500
York:	90.000	Pine Lake (25-R-11)	5,000
Humber River	20,000	Tookenay Lake	15,000
Sales	6,000	Trout Lake Inlet	1,000
		Bruce:	
7771 D7 73700		Big Bay Swamp Creek	2,000
YEARLINGS		Colpoy's Creek	2,000
Grey:	~ ^	Dickie's Creek	5,000
Sydenham River	501*	Foster Moffatt Creek	5,000
Simcoe:		Judge's Creek Sharp's Creek	$\frac{10,000}{2,000}$
Brough's Creek	1,740	Sparrow Creek	1,000
Vonley		Spring Creek (Carrick)	5,000
York: Humber River	238	C alon	
alumbol itifol	200	Cochrane: Charlebois Lake	1,000
Demonstration purposes and	4 000**	Croft's Creek	1,000
	1,028**	Dalton Lake	1,000
* Surplus adults96		Dandurand Creek	1,000
** Surplus adults93		Fuller's Creek	1,000

SPECKLED TROUT—Conti	nued	Haliburton:	
		Cardiff Lake	2,500
Cochrane—Continued		Cross Lake	10,000
Grassy River	1,000	Farquhar Lake	2,500
Halfway Lake	1,000	Otta Creek	5,000 $15,000$
Hooker Creek	$1,000 \\ 1.000$	Round Lake	5,000
Lake of Bays Legare Creek	1,000	Slipper Lake	5,000
McIntyre Lake	1,000	Suppor Lane	0,000
Metagami River	1,000	Halton:	
Munro Lake	1,000	Black Creek	8,000
Ramsbottom Creek	1,000	TT 41	
Red Sucker Creek	1,000	Hastings: Crooked Lake	10.000
Rowley Lake	1,000	Green's Lake	$10,000 \\ 10,000$
Waterhen Creek	1,000	Little Mississippi River	5,000
		Rawdon Creek	12,000
Dufferin:	2 2 2 2	Trout Creek	5,000
Cemetery Creek	6,000		
Credit River	6,000	Huron:	
Nottawasaga River	7,000 8,000	Blyth Creek	7,000
Pine River	3,000	Porter's Creek	7,000
D. 1		St. Helen's Creek	1,000
Durham: Bert Reid Creek	1,000	Lanark:	
Brown's Creek	1,000	Clyde River	7.000
Carl Billings Creek	1,000	Jerry's Creek	3,000
Cedar Springs	1,000		
Cedar Spring Creek	1,000	Leeds:	
Cowper's Creek	1,000	Willies Brook	1,000
DeLong's Stream	500	Lennox-Addington:	
Hale's Creek	1,000	Smiths Lake	5,000
Luxon's Creek	2,000	White Lake	10,000
Mercer's Creek	$1,000 \\ 1,000$	White Zame IIIII	20,000
Millson Creek Moffatt's Creek	1,000	Manitoulin:	
Patton's Stream	1,000	Blue Jay Creek	10,000
Rowe's Stream	500	Hare's Creek	1,000
Sowden's Stream	1,000	Muskoko	
Sowper's Creek	1,000	Muskoka:	7 000
Spring Creek	1,000	Axe Creek	7,000 $7,000$
Thompson's Creek	1,000	Gipsy Bells Creek	5,000
	·	Helve Creek	8,000
Elgin:	10000	Lake Waseosa	8,000
Ball Creek	10,000	Loon Lake	3,000
Venison Creek	10,000	Menominee Lake	10,000
The state of the s		Spring Creek (Sinclair)	2,000
Frontenac: Grindstone Lake	5,000	Streams-Rat Lake and	1 000
Grindstone Lake	5,000	Lake of Bays	1,000
Grey:		Nipissing:	
Beatty River	6,000	Brule Creek	2,000
Camp Creek	7,500	Crooked Lake	3,500
Deer Creek	6,000	McMaster Lake	3,000
Fairbairn's Creek	5,000	Smoky Creek	4,000
Firth's Creek	5,000	Timagami Lake	3,400
Gravel Pit Creek	5,000	Whitney Lake	1,000
McCartney's Lake	$\frac{3,000}{2,000}$	Norfolk:	
Mountain Creek Mitchell's Creek	$\substack{2,000\\1,000}$	Nanticoke Creek	8,000
Noble Creek	5,000	Spooky Hollow Stream	750
Rob Roy Creek	10,000	Spoon, Hollow Sticam	
Tributaries Camp Creek	12,500	Northumberland:	
Tributaries Rocky Saugeen	5,000	Callahan's Creek	3,000
Tributaries Big Head River	5,000	DeLong's Creek	500

SPECKLED TROUT—Conti	nued	Himdick Lake	$\frac{3,000}{2,500}$
Northumberland—Continued Goodrich Creek	15,000	Johnston Lake Kowkash River	$2,500 \\ 15,000$
Taylor's Creek Valleau Creek	$\substack{1,000\\1,000}$	Loon Creek	$\frac{2,000}{20,000}$
Oxford:		McIntyre River Neebing River	$25,000 \\ 15,000$
Manuel Creek	1,000	Pass Lake	5,000
Sutherland Pond Whiting Creek	$\frac{2,000}{3,000}$	Pearl River	$25,000 \\ 10,000$
Parry Sound:		Rainbow Lake Sandy Beach Lake	2,000
Boyne River	$10,000 \\ 1,000$	Silver Lake	$\frac{2,000}{15,000}$
Howard Stream Sequin River	5,000	Spring Lake Squaw Lake	$\frac{5,000}{3.000}$
Peel:		Sunset Lake	2,000
Kress Stream Stream—East Garafraxa	$14,000 \\ 1,000$	Upper Pass Lake Whitewood Creek	5,000 $5,000$
	1,000	Wideman Lake	5,000
Renfrew: Bass Lake	4,000	Wigan Lake Wigwam Lake	$\frac{4,600}{3,500}$
Black Donald Creek Brennan's Creek	$10,000 \\ 4,000$	Timiskaming:	
Egan's Lake	10,000	Crystal Lake	2,000
Grant Lake	$\frac{4,500}{3,000}$	Fairy Lake Jean Baptiste Lake	$\frac{3,000}{2,000}$
Gunning Lake	2,000 4,500	Latour Creek Loon Creek	$\frac{3,000}{1,000}$
Heeney's Creek  Jack's Creek	10,000	Maiden Creek	1,000
Johnson Lake Nadeau Creek	$10,000 \\ 10,000$	Moffatt Creek Moloney Creek	$\frac{3,000}{1,000}$
Reserve Lake	10,000	Pike Creek	2,000
Round Lake	$10,000 \\ 10,000$	Small Spot Creek Spring Creek	$\frac{1,000}{2,000}$
Twin Lakes	$10,000 \\ 10,000$	Sesekinika Creek Trout Creek	$\frac{2,000}{1,600}$
	10,000	Wabi Creek	2,000
Sudbury: Anderson Lake	1,000	Watabeag River	2,000
Johns Creek	$\substack{7,000\\1,000}$	Waterloo: Elora Stream	5,000
McLeod's Creek	5,000	Erbsville Creek	7,000
Shenango Creek	$\substack{1,500\\1,500}$	Groves Creek Idyle Wild Stream	$\frac{1,000}{5,000}$
Thunder Bay:		Mannheim Stream	7,000
Arnold Creek Bender Lake	$5,000 \\ 1,200$	Welland: Effingham Stream	9,000
Binaback Lake	1,500	Sulphur Springs	9,000
Bruce Lake	$\frac{3,000}{5,000}$	Wellington:	
Canyon Lake	2,000	Beley's Creek Bell's Creek	$\frac{2,000}{10,000}$
Cedar Creek	$\begin{matrix}3,000\\15,000\end{matrix}$	Bradley Creek	5,000
Center Lake	$\frac{2,000}{2,500}$	Erin Mill Pond Ospringe Creek	$\frac{6,000}{2,500}$
Coldwater River	25,000	Saugeen River	6,000 $5,000$
Dixon Lake	$15,000 \\ 3,000$		•
Fork Lake	$\frac{2,000}{1,500}$	Sales	3,000
Grand Lake	2,000	YEARLINGS	
Grange Lake	$\frac{2,500}{1,000}$	Algoma: Achigan Creek	3,000
Hilmar Lake	2,000	Achigan Lake	2,000

SPECKLED TROUT—Contin	nued	Twin Lake	4,000
		Upper Island Lake	3,000
Algoma—Continued		Wa Wa Lake	2,000
Agawa River	4,000	Walker Lake	1,500
Alva Lake	1,000	Wallace Lake	500
Anjigami Creek	2,000	Wartz Lake	2,000
Basswood Lake	1.500	Weckstrom's Lake	1,500
Batchewana River	4,000	West Twin Lake	500
Bull Creek	500		
Burrough's Lake	500	Bruce:	
Caldwell's Lake	500	Spring Creek (Amabel)	1,000
Camp 8 Creek	1,000	Stoney Creek	1,000
Caribou Lake	3,000	Willow Creek	1,000
Chippewa River	4,000		
Clear Lake Creek	1,000	Dufferin:	
Clearwater Creek	2,000	Huxtable Creek	1,000
Driving Creek	3,000		
East Twin Lake	500	Durham:	
Garden River	3,000	Best Pond	250
Goulais River	3,000	Burk's Pond	500
Gravel River	500	Cavan Stream	3,000
Hawk Lake	1,000	Elizabethville Creek	1,000
Hoath Lake	3,000	Jamieson Pond	250
Hobon Lake	2,000	Leskard Creek	700
		North Orono Stream	300
Hubert Lake	2,000	Park Stream	1,000
Johanneghia Lake	2,000	White Pond	500
Lafoe Creek	500		
Long Lake	500	Frontenac:	
Loon Lake Creek	200	Black Creek	2,400
Loon Lake (Deroche)	3,000	Creek from Mountain Grove	
Loon Lake (Kirkwood)	300	to Clear Lake (Olden)	1,200
Loon Lake (24-R-13)	2,000	Sharbot Creek	3,800
Loonskin Lake	2,000	Trout Lake	2,400
Lower Island Lake	3,000		
McCormick Lake	1,000	Grey:	
McVeigh Lake	1,000	Beatty River	500
Mashagami Lake	4,000	Beaver River	3,000
Michipicoten River	4,000	Berkeley Lake	1,000
Mile 58 Lake	1,000	Binns Creek	1,000
Mississauga River	5,000	Boyd's Lake	1,000
Mongoose Lake	2,000		500
Moose Lake	2,000	Caseman's Creek	500
Mountain Lake	3,000	Christie Creek	2.050
Osborne Creek	500	Eugenia Lake	$\frac{2,030}{1.100}$
Patten Lake	3,000	Firth's Creek	375
Pine Lake (24-R-13)	1,000	Glen Creek	500
Pine Lake (25-R-11)	1,000	Lee's Creek	1,000
Pinkney Lake	1,000	Miller Creek	
Rapid River	1,000	Nigger Creek	500
Root River	3,000	Rocky River	1,000
Sand Lake Creek	2,000	Sargent's Lake	2,500
Sand River	1,000	Styx River	1,000
Sharp Sand River	1,500	Sydenham River	2,585
Silver Creek	3,000	Williams Lake	1,000
Snowshoe Creek	2,000		
Speckled Trout Lake	3,000	Haliburton:	
Spruce Lake	2,000	Bear Creek	1,500
Tamarack Lake	500	East River	1,250
Tawabinasay Lake	2,000	Hawk River	1,000
Tea Lake	2,000	Hollow River	1,250
Tendinenda Lake	1,000	Little Black River	1,000
Thessalon (Little) River	1,000	McCue Creek	1,500
Triple Lake	500		
Trout Lake (62)	2,000	Hastings:	
Trout Lake (Aweres)	3,000	Bartlett Creek	1,000
	-,000		

SPECKLED TROUT—Cont	inued	Chidley's Creek Dartford Creek	500
Heatings Continued		Dawson Creek	3,000
Hastings—Continued Brett's Lake	100	Dawson Greek Duncan's Creek	1,000
Carleton Creek	200	Mill Crook	1,000
		Mill Creek	500
Cedar Creek	$\substack{2,400\\400}$	O'Grady's Creek	1,500
Deer River		Piper's Creek	500
Echo Lake	1,250	Robin's Creek	500
Egan Creek	3,200	Sandy Flats Creek	3,000
Fraser Creek	4,800	Woodlands Creek	1,000
Hick's Lake	1,250	Datashanawah	
Lake St. Peter	2,500	Peterborough:	1 000
Limestone Lake	1,000	Big Ouse River	1,000
Little Papineau Creek	2,400	Buchanan's Creek	1,500
Lott's Pond	1,000	Little Ouse River	2,000
Otter Creek	600	Long's Creek	3,000
Peel's Lake	500	Plateau Creek	1,500
Rawdon Creek	4,800		
Shire Creek	1,600	Simcoe:	
Springbrook Creek	4,800	Black Creek	10,000
Squire's Creek	3,000	Coldwater River	1,000
Trout Creek	1,050	Sheldon Creek	3,000
Walterhouse Creek	1,050	Silver Creek	2,000
Walterhouse Lake	2,100	Sturgeon River	2,000
		Tenth Creek	200
Lanark:			-00
Paul's Creek	1,025	Sudbury:	
		Anderson Lake	1 000
Leeds:		Bertrand Creek	1,000
Wilton Creek	500		1,000
		Green Lake	1,000
Lennox-Addington:		Veuve River	1,500
Ashby Lake	2,400	mi i i	
Beaver Creek	2,400	Thunder Bay:	
Enterprise Creek	1,300	Ada Lake	500
Little Spring Creek	2,400	Allen Lake	3,000
		Anderson Creek	2,000
Manitoulin:		Anna Lake	500
Barr's Creek	1,000	Arnold Creek	2,000
Blue Jay Creek	5,000	Bat Lake	2,000
Mindemoya River	2,000	Big Mackenzie River	6,000
Srigley Creek	2,000	Birch Lake	2,000
		Bruley Creek	7,000
Muskoka:		Catharine Lake	2,000
Bella Lake	1,250	Cedar Creek	4,000
Big East River	2,500	Coldwater River	4,000
Breckenridge Lake	2,000	Corbett Creek	500
Kay's Creek	300	Current River	10,800
Lake of Bays	2,000	Echo Lake	2,000
Little East River	3,000	Elbow Lake	4,000
Muskoka River	1,600	Golden Gate Lake	500
Oxtongue River	1,250	Gravel Lake	6,000
Rebecca Lake	1,250	Gulch Lake	2,000
Skeleton Lake	1,250	Hoodoo Creek	1,000
Spring Creek (Watt)	100	Kaministiquia River	6,000
	200	Kowkash River	1,000
Nipissing:		Little Ozone Creek	2,000
Balsam Creek	1,500	Loftquist Lake	5,000
Chippewa Creek	2,012	Loon Lake	12,000
Dorans Creek	1,500	Loutit Lake	1,000
Duschene Creek	1,936	McIntyre River	5,000
Little Jocko River	3,000	Mac's Lake	2,000
	0,000	Maud Lake	1,000
Northumberland:		Mine Lake	500
Baltimore Creek	3,000	Neebing River	4,800
Burnley Creek	1,000	Nipigon River	56,800
•	,		,

Rainy River:

Rainy Lake ..........14,325,000

April 1st, 193	36, to Ma	rch If st, 1937—Continued
SPECKLED TROUT—Cont	inued	mick the
Missa dan Dan Gantina d		Lak. Simcoe 3,000,000
Thunder Bay—Continued Oliver Lake	2 000	Great Lakes:
Pearl River	$\begin{matrix} 3,000 \\ 5,000 \end{matrix}$	Lake Superior 1,257,000
Pickerel Lake	4,000	North Channel25,510,000
Pitch Creek	4,000	Georgian Bay74,760,000
Randolph Creek	1,000	Lake Huron
Rangers Lake	2,000	Lake Erie
Rocky Shore River	2,000	22000 22120
Spectacle Lake	2,000	Lake Ontario
Spring Lake	6,000	
Squaw Creek	6,000	EYED EGGS
Squaw River	1,000	Demonstration purposes 112,500
Trout Lake (Gorham)	12,000	
Trout Lake (Stirling)	2,000	
Walker's Lake	2,000	HERRING
Whitewood Creek	4,000	TIDA
Wolf River	11,610	FRY
		Frontenac:
Wellington:		White Lake
Erin Pond	1,000	
		Leeds:
Wentworth:		Charleston Lake 1,000,000
Spencer Creek	2,500	Rideau Lake 3,000,000
Sales	5,287	Prince Edward:
		Bay of Quinte 730,000
ADULTS		Great Lakes:
Algoma:		Lake Erie22,890,000
Basswood Lake	400	Lake Ontario27,500,000
Bridgland River	700	
Heyden Lake	400	
Lower Island Lake	400	
Trout Lake (Aweres)	400	
Grey:		
Firth's Creek	100	
Mary's Lake	230	
Williams Lake	2,175	
Nipissing:		
Chippewa and Duschene		
Creeks (surplus		
breeders)	55	
NT ( - 11		
Norfolk:	100	
Walsingham Pond	100	
Northumberland:		
Glenfurnte Stream	796	
	325	
Sales	020	
WHITEFISH		
FRY		
Kenora:		
Lake of the Woods13,	800.000	
Prince Edward:		
Bay of Quinte55,	500,000	
• • •		

#### APPENDIX No. 2

ONTARIO DEPARTMENT OF GAME AND FISHERIES
DISTRIBUTION OF FISH ACCORDING TO SPECIES—1933 TO 1936, INCLUSIVE

	1933	1934	1935	1936
Large-mouthed Black Bass Fry Fingerlings Yearlings and Adults.	856	35,250 4,250 197	130,000 2,153 27*	45,000 8,398
Small-mouthed Black Bass Fry Fingerlings Yearlings and Adults.	545,000 25,750 3,471	365,500 35,750 420	696,000 153,065 3,433	780,000 69,380 5,202
Maskinonge—Fry	l	909,500	460,000	274,000
Perch—Fry		95,000,000	53,031,400	46,080,000
Pickerel—Eyed eggs	20,500,000	5,000,000 278,470,000	2,000,000 229,629,000	2,000,000 300,759,500
Brown Trout—Fingerlings Yearlings	483,016 674	$138,000 \\ 14,500 \\ 689$	109,000 9,650 6*	147,050 7,290
Lake Trout—Eyed eggs Fry Fingerlings	1.400.000	$\begin{array}{c c} & 402,000 \\ & 1,265,000 \\ & 14,045,450 \end{array}$	7,773,034 14,564,000	$\begin{array}{c c} 3,209,400 \\ 4,165,000 \\ 18,253,244 \end{array}$
Landlocked Salmon (Ouananiche) (Yearlings)			13,640	
Rainbow Trout—Eyed Eggs  Fry  Fingerlings  Yearlings	27,016	$\begin{array}{c} 1,000 \\ 4,480 \\ 312,512 \\ 25,014 \end{array}$	134,075	133,000 3,507
Kamloops Trout—Fingerlings Yearlings			$\begin{array}{c} 85,464 \\ 10,796 \end{array}$	
Speckled Trout—Eyed eggs Fry Fingerlings Yearlings Adults	$\begin{array}{c} 725,000 \\ 5,950,255 \\ 28,237 \end{array}$	6,257,267 34,762 1,652	1,645,000 5,013,831 35,421 5,420	28,600 182,000 1,053,050 557,270 6,081
Whitefish—Fry Eyed Eggs	372,111,000	376,777,000	296,482,000	428,402,000 112,500
Herring—Fry	22,805,000	17,512,000	43,760,000	56,120,000
Golden Shiners		7,000	500	
TOTALS	441,325,524	796,619,193	655,747,231**	862,401,472

\* Exhibition fish

<sup>\*\*</sup> This total does not include a distribution of 132,646,600 fry and eyed eggs during the five months immediately preceding the said report.

#### APPENDIX

#### GAME AND FISHERIES

Statistics of the Fishing Industry in the Public Waters of

#### **EQUIP**

District			Tug	s		asoline unches		and Boats	Gill	Nets
		No.	Tons	Value	No.	Value	No.	Value	Yards	Value
Northern Inland Waters Lake Superior North Channel Georgian Bay Lake Huron Lake St. Clair Lake Ontario Southern Inland Waters	544 384 195 497 426 161 876 742 455	6 12 9 17 20 	204 356 272 435 518	\$ 17,000 54,000 63,000 119,250 147,500 	85 43 136 127 57	\$ 71,885 39,285 35,575 112,578 80,325 15,050 171,670 100,540 4,825	83 67 98 38	4,518 4,445 2,165	531,065 856,885 432,375 1,010,750 1,328,800 	85,790 50,275 109,690 168,305 225,232
Totals	4,280	97	2,763	\$640,950	1,058	\$631,733	1,243	\$51,505	7,228,485	\$812,467

#### **APPENDIX**

#### QUANTITIES OF

District	Herring	Whitefish	Trout	Pike	Pickerel (Blue)	Pickerel (Dore)
	lbs.	lbs.	lbs.	lbs.	tbs.	lbs.
Northern Inland Waters Lake Superior North Channel Georgian Bay Lake Huron Lake St. Clair Lake Erie Lake Ontario Southern Inland Waters	1,414 2,683,724 569 27,274 170,178 325 78,805 1,332,450 3,823	260,247 983,783 235,304 1,100 1,767,741 576,196	1,596,181 704,657 1,472,586 2,137,519  200 226,549	5,895 58,051 46,054 777 13,199 1,576	6,875 6,878,919	1,484,510 83,966 64,214 90,701 275,405 37,934 326,095 26,288 4,065
Totals	4,298,562	5,790,403	6,458,730	1,158,345	6,899,501	2,393,178
Price per pound	.05	.11	.11	.06	.05	,11
Values	\$214,928.10	\$636,944.33	\$710,460.30	\$69,500.70	\$344,975.05	<b>\$263,249.</b> 58

No. 3

#### DEPARTMENT, ONTARIO

Province of Ontario, for the Year Ending December 31st, 1936.

#### MENT

	Seine 1	Nets	Pour	d Nets	Hoor	Nets		and Nets	Night	Lines	Sr	ears		ezers & Houses		ers and harves	Total Value
No.	Yards	Value	No.	Value	No.	Value	No.	Value	No. Hooks	Value	No.	Value	No.	Value	No.	Value	
39 50 13 61	900 11,450 13,800 1,550 6,870	6,130 8,215 1,195	559	12,803 58,790 79,400 88,500 13,225	42	510  195 15,195	6 26	\$ 2	57,814 10,236 4,500 3,250	15 10,735 1,685 215 79 208	1 23 1	10 112 20	143   37   45   55   74   23   91   38   29	16,875	40 35 67 28 11 75 24		225,768 241,553 483,065 529,880 45,585 1,044,223 244,735
168	34,570	\$21,533	1,151	<b>\$542,47</b> 8	1,092	\$ 24,649	78	\$ 364	88,414	\$  13,322	231	\$1,687	535	\$209,770	399	\$120,170	\$3,070,628

#### No 4

#### FISH TAKEN

Sturgeon	Eels	Perch	Tullibee	Catfish	Carp	Mixed Coarse	Caviare	Total	Value
lbs.	lbs.	lbs.	lbs.	lbs.	ībs.	lbs.	lbs.	lbs.	
476 10,074 1,601 4,454 6,760		3,272 115,785 32,501 1,254,087 164,796	131,864	11,694	21,902 6,998 292,241 360,508	104,895 299,787 70,990 139,153 209,051 1,201,610 287,196		4,899,391	364,122.66 130,898.60 297,187.80 337,598.56 34,848.59 706,376.09 211,814.88
106,868	61,780	1,586,959	920,155	609,488	1,166,710	2,802,028	1,906	34,254,613	
.40	.07	.05	.06	.08	.05	.03	1.=		
\$42,747.20	\$4,324.60	\$ 79,347.95	\$55,209.30	\$48,759.04	\$58,335.50	\$84,060.84	\$1,906.00		\$2,614,748.49

## APPENDIX No. 5 COMPARATIVE STATEMENT OF THE YIELD OF THE FISHERIES OF ONTARIO

Kind	1934 Pounds	1935 Pounds	1936 Pounds
Herring	2,876,121	2,528,958	4,298,562
Whitefish	4,922,996	5,478,435	5,790,403
Frout	5,295,174	6,256,336	6,458,730
Pike	1,095,911	1,216,622	1,158,345
Pickerel (Blue)	2,432,093	5,122,997	6,899,501
Pickerel (Dore)	2,292,094	2,431,943	2,393,178
Sturgeon	89,884	110,470	106,868
Eels	63,650	74,947	61,780
Perch	6,018,541	6,039,713	1,586,959
Tullibee	1.105.158	1.071.004	920,155
Catfish	356,665	502,779	609,488
Carp	1.520.848	1,480,506	1.166.710
Mixed and	3,161,229	2,898,583	2,802,028
Caviare	2,613	2,694	1,906
TOTALS	31,232,977	35,215,987	34,254,613

## APPENDIX No. 6

### STATEMENT OF ESTIMATED VALUE OF THE FISHERIES OF ONTARIO 1936

Kind	Quantity Pounds	Price per Pound	Estimated Value
Herring Whitefish Trout Pike Pickerel (Blue) Pickerel (Dore) Sturgeon Eels Perch Tullibee Catfish Carp Mixed and Coarse Caviare	4,298,562 5,790,403 6,458,730 1,158,345 6,899,501 2,393,178 106,868 61,780 1,586,959 920,155 609,488 1,166,710 2,802,028 1,906	\$ .05 .11 .11 .06 .05 .11 .40 .07 .05 .06 .08 .08	\$ 214,928.10 636,944.33 710,460.30 69,500.70 344,975.05 263,249.58 42,747.20 4,324.60 79,347.95 55,209.30 48,759.04 58,360.84 1,906.00
TOTALS	34,254,613		\$2,614,748.49

#### APPENDIX No. 7

## ESTIMATED VALUE OF FISH TAKEN FROM THE WATERS OF THE PROVINCE 1917—1936 INCLUSIVE

1917\$	2,866,424.00	1927	3,229,143.57
1918	3,175,110.32	1928	3,033,944.42
1919	2,721,440.24	1929	3,054,282.02
1920	2,691,093.74	1930	2,539,904.91
1921	2,656,775.82	1931	2,442,703.55
1922	2,807,525.21	1932	2,286,573.50
1923	2,886,398.76	1933	2,186,083.74
1924	3,139,279.03	1934	2,316,965.50
1925	2,858,854.79	1935	2,633,512.90
1926	2,643,686.28	1936	2,614,748.49

## Thirty-First Annual Report

OF THE

# Game and Fisheries Department

1937-1938

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 9, 1939



#### TORONTO

Printed and Published by T. E. Bowman, Printer to the King's Most Excellent Majesty

1 9 3 9

#### TO THE HONOURABLE ALBERT MATTHEWS,

Lieutenant-Governor of the Province of Ontario.

#### MAY IT PLEASE YOUR HONOUR:

I have the honour to submit herewith for the information of Your Honour and the Legislative Assembly, the Thirty-first Annual Report of the Game and Fisheries Department of this Province, for the year ended March 31st, 1938.

I have the honour to be,

Your Honour's most obedient servant,

H. C. NIXON,

Minister in Charge,
Department of Game and Fisheries

Toronto, 1939.

#### THIRTY-FIRST ANNUAL REPORT

OF THE

### Game and Fisheries Department of Ontario

TO: THE HONOURABLE H. C. NIXON,

Minister in charge,

Department of Game and Fisheries.

SIR .-

I have the honour to submit to you in this and the following pages the Thirty-first Annual Report of the Department of Game and Fisheries, outlining the activities of Departmental services and including statistical and comparative tables for the fiscal year ended March 31st, 1938.

#### INTRODUCTORY

The wild life of the Province of Ontario constitutes a resource of tremendous importance and value. It is a heritage of the Crown administered by this Department and the policies which govern the administration of this trust are based on the premise that every citizen has an equity in these resources.

The natural resources of any country are the basis of its national wealth and in evaluating the true worth of our wild life natural resources, it is pertinent to point out that these form a vital part of our economic structure. Analyzing these thoughts we find the following facts:

The fur trade of Canada is closely associated with the development of the country, for the trappers and fur buyers were pioneers in opening up the north and the west. In the Province of Ontario trapping is still more or less extensively carried on. During the year under review trappers in excess of sixty-five hundred were licensed and operating in Ontario, while fur dealers' license fees contributed \$27,438.75 to Departmental revenues, which last fact indicates that the trapper is plentifully supplied with avenues for the disposal of his catch. During the same period royalty to the amount of \$63,632.70 was paid to the Department on furs while the value to the trapper of his season's fur catch is estimated at \$966,552.92. In addition to these figures it is pointed out that private fur farmers raised and disposed of 33,235 silver and black fox pelts, 233 cross fox pelts, and 24,864 mink pelts of an estimated value of \$896,963.15.

It should be noted that in Northern Ontario where the lands are mostly still in the Crown, it is the policy to allot a separate area, consisting of a township or part of a township, to each trapper. While much of the north country is still unsurveyed it is hoped that in the very near future eighty per cent of the trappers will have their trap lines on a defined zone. Each trapper will then be responsible for taking care of the fur-bearing animals in his own area, because his future earnings will depend on his conservation of the supply within the zone.

The commercial fishing industry of the Province employed some 4,440 men during the year ending March 31st, 1938, and had approximately \$3,277,701 invested in gear and equipment, while the sum of \$2,644,163.49 was derived by these commercial fishermen from their operations.

From the economic standpoint, however, the greatest worth of our game and fish resources lies in their attraction to tourists. The seasonal influx of visitors from all parts of the world has developed into an industry of major importance and it is estimated that \$117,029,099.00 was circulated by tourists in Ontario during the year under review. This Province has, of course, many attractions, but the lodestone which exercises the greatest drawing power is the excellent fishing to be had in our many lakes and streams. It will be apparent that the natural resources which are the backbone of such an important industry are of very real economic value.

Again, the importance of bird life as an aid to agriculture is beyond computation. Insect control is essential to crop success. Much of this burden is lifted from the shoulders of the farmers by the migratory and non-migratory birds which are a part of our wild life assets.

From the standpoint of the sportsman this wild life heritage has a recreational value which cannot be measured in terms of dollars and cents. Fishing and hunting are perhaps the very finest of the health-giving and recreational sports available to the people of this Province. The incentive which wild life provides for enjoying the great outdoors is of inestimable value in the development of character and good citizenship.

It is therefore obvious from the foregoing comments and observations that our wild life heritage is a trust of great economic and moral worth, and being a common heritage its preservation and wise use is the care of every resident within our borders. How this Department has administered this trust on behalf of the people of this Province during the period under review is detailed in these pages for the information of all concerned.

#### FINANCIAL

#### ORDINARY REVENUE FOR FISCAL YEAR ENDING MARCH 31st. 1938.

ORDINARI REVENUE FOR FISCAL TEAR ENDIN	-	MARCH	150	1336.
ORDINARY—				
MAIN OFFICE—				
FAME—				
Licenses—				
Trapping	. \$	29,167.60	)	
Non-resident Hunting		92.370.00	)	
Deer		72.320.10	)	
Moose		3,179.00	)	
Gun		77,780.81		
Dog		4,636.10		
Fur Dealers		27,438.78		
Fur Farmers		8,737.50		
Tanners		140.00		
Cold Storage		157.00		
	\$	315,926.86	3	
Royalty		63,632.70		
ttoyarty	•	,		379.559.5
NGHEDIEG			Ψ .	, , , , , , , , , , , , , , , , , , , ,
TISHERIES—				
Licenses—	g.	102 408 66		
Fishing				
Angling	•	331,430.45	-	
	\$	434,839.11		
Sales — Spawn taking		72.70	)	
Royalty		10,849.95	;	
			-\$ 4	45,761.76

.....\$ 866,558.19

GENERAL—		
Licenses—		
Tourist Outfitters\$	5,790.00	
Guides	7,782.00	
\$	13,572.00	
Fines	11,561.50	
Costs	664.62	
Sales — Confiscated articles	10,683.74	
Rent	3,229.00	
Commission	1,959.63	
Miscellaneous	231.00	
	\$	41,901.49
	\$	867,222.81
EXPERIMENTAL FUR FARM—		
Sales — Pelts		1,258.08
Gross Ordinary Revenue		868.480.89
DEDUCT—	,	,
Revenue applied in reduction of Expenditures-		
Main Office — Costs	664.62	
Experimental Fur Farm — Sale of Pelts	1,258.08	
		1,922.70

Again I am privileged to report an increase in the amount of the total ordinary revenue which was collected by this department during the year under review. The total figure of \$866,558.19 is the largest yet produced in any one fiscal year, and is \$84,340.56 in excess of the previous high total, viz:— that of \$782,217.63 collected in 1936-37.

Net Ordinary Revenue ......

This increase is attributable principally to the larger revenue derived from the sale of non-resident angling and hunting licenses in 1937-38 as compared with the figures for 1936-37. The sale of such angling licenses in 1936-37 produced \$272,690.50 as compared with a total of \$331,430.45 from a similar source in 1937-38, an increase of practically sixty thousand dollars. This is an interesting and encouraging sign. The tourist is evidently finding out what the resident fisherman already knows, that as a result of the energetic restocking of the past few years, Ontario waters keep on improving, despite the intensity with which they are being fished. The economic possibilities of this seasonal business loom larger than ever before, and we believe the people of the Province are becoming increasingly conscious of the necessity for conserving and continually renewing the fish and game resources which add so much to the attractiveness of this Province as a vacation resort. From the sale of non-resident hunting licenses in 1937-38 we derived \$18,432.50 in excess of the revenue derived from that source in the previous fiscal year, so that of the total increase of \$84,340.56 to which previous reference has been made, the sum of \$77,172.45 was due to the increased sale of various non-resident hunting and angling licenses.

Revenue exceeded expenditure, both ordinary and capital, by \$302,619.86. Ordinary expenditures totalled \$513,383.80, some of the principal items of this expenditure being \$212,038.54 on the work of enforcing provisions of the Game and Fisheries Act, and \$166,939.91 on Fish Hatchery Service. Other items of ordinary expenditure include \$10,662.43 spent in connection with the propagation of

game birds and animals and \$4,182.98 at the Experimental Fur Farm at Kirkfield (Victoria County). Expenditures in connection with the payment of wolf bounties totalled \$27,474.24, while grants to various individuals and organizations amounted to \$8,400.00. The total amount paid out for capital expenditures was \$50,554.53, the greater proportion of which amount was spent on projects which were necessary in connection with the expansion of our fish culture services. Some of the principal items were as follows:—Manitoulin Bass Ponds, \$12,911.92; North Bay Trout Rearing Station, \$15,811.04; and White Lake (additional ponds), \$12,465.33.

#### GAME

The comparative table which follows will show in detail the various hunting licenses, both resident and non-resident, which were issued during the year under review, and such figures for the three previous years. While reference has already been made to the increased revenue derived in 1937-38 from the sale of non-resident hunting licenses, it will be of interest to state that the revenue derived from the sale of resident hunting licenses—deer, moose and gun,—in 1937-38 was in excess of that collected from the same sources in the previous year by the sum of \$19,419.65.

	1934	1935-36	1936-37	1937-38
Resident Moose	512	496	542	580
Resident Deer	12,890	14,779	15,394	18,672
Resident Deer (Camp)	175	258	262	283
Resident Deer (Farmers)	4,902	5,221	5,386	6,503
Resident Gun	76,210	85,884	79,531	90,756
Non-resident Small Game	489	686	1,129	1,634
Non-resident Deer	475	652	848	1,036
Non-resident "General"	457	680	878	1,043

The sportsman to-day is not so much interested in the kill as in the chase, although his pleasure is increased when his efforts are rewarded. Meat, however, is not the primary consideration. Health and "the pursuit of happiness" are the lures which beckon the good sportsman from the artificialities of life to the soothing influence and restful atmosphere of nature. Wild life is but a means to an end, an incentive to physical and mental relaxation.

The following pages contain a summary of conditions as they apply to the game life of the province,—both animal and bird, and which information is compiled from reports submitted by the various members of the field service staff of the Department:—

**DEER:**—This particularly fine species of game animal continues to be fairly plentiful in various sections of the Province and while the hunting of these animals during the regular open season supplies an exhilarating brand of recreation for the interested sportsman there is no doubt, notwithstanding the fact that there was provision for some minor moderation of the regulations which had previously applied to restrict the taking of does and fawns, that the preservation and possible improvement of the existing deer herds depends very largely upon the protection which the existing provisions of the Game and Fisheries Act provide and the observance of such restrictions by all concerned.

Reports submitted by members of the Field Service staff indicate that so far as the northern and northwestern portions of the Province are concerned generally speaking conditions are quite favourable, though there are various scattered sections throughout this region where such is not the case. The northern districts in the

southern portion of the Province continue to attract the majority of hunters seeking deer, and it would appear that these animals are still sufficiently plentiful and showing some increase in numbers in some sections of these areas, i.e. Parry Sound, Muskoka, Haliburton, Renfrew and the northern portions of Victoria, Peterborough, Hastings, Addington, Frontenac and Lanark, to warrant the belief that this branch of sporting activity will long be available here. In the Counties included in the southwestern peninsula and in certain eastern counties there has been an entire close season on deer for the past several years, and even though these particular counties represent the most settled portions of the entire Province we are able to state that the complete protection which prevails here is resulting in the number of deer increasing in most of these counties. This has been particularly the case in the counties of Bruce and Grey where conditions have been so favourable as to warrant the Department providing a short open season there.

The open season for deer during the year reported on was a highly successful one. Reports to the Department from sportsmen and overseers indicated that as a general rule deer were more numerous in certain sections than was the case in the previous season. While this may in some measure be attributable to a natural movement of the herd, it is reasonable to assume that the comparatively mild winters of the past two years, together with the protective measures in force have resulted in increased reproduction. We are referring, of course, to those areas in which hunting was legal. The Department's Inspector, who was stationed at a strategic point on the highway to check hunters on their return from the north, reported that the consensus of opinion was that there were more deer seen than ever before. A Deputy Game Warden with whom we were discussing the hunt said,—"I have been hunting deer for seventeen years and never saw them so thick as they were this year." Such reports are encouraging, indicating as they do that the deer herd, with a reasonable measure of protection, is capable of replenishing itself despite natural and unnatural enemies.

MOOSE:—This splendid monarch of the Ontario forest is to be found only in the northern portion of the Province though scattered specimens are to be found in Muskoka, Parry Sound, Renfrew and in the sections immediately to the south of Algonquin Provincial Park. Nowhere in Ontario are they plentiful and there is no doubt that the various regulations which exist for the protection of these magnificent animals are absolutely necessary for the welfare of this species. It is only in a few sections that their numbers are reported to be even fairly plentiful, and nowhere has any decided improvement in numbers been observed.

CARIBOU:—These animals are extremely scarce and are reported only from the Districts of Rainy River, Kenora and Thunder Bay, also from the northern portions of Algoma and Cochrane. Some slight increase has been observed in the eastern portion of Thunder Bay and in the Chapleau Game Preserve, which is located in the Districts of Sudbury and Algoma.

ELK:—As has been outlined in previous reports the elk which are to be found in Ontario at present are those which were imported to the Province from Western Canada, and their progeny. The original shipments were made with the approval and co-operation of the Dominion National Parks Branch, and on arrival here were placed on the following Crown Game Preserves, viz:—Pembroke, Burwash, Chapleau, Nipigon-Onaman and Goulais River-Ranger Lake.

There has been some improvement in practically all instances save one,—those liberated on the Nipigon-Onaman Crown Game Preserve. Elk from the herd at Pembroke have been placed in Algonquin Park and on the Bruce Peninsula, while some animals from the herd at Burwash were liberated in territory immediately adjacent thereto. It is reported that their numbers have increased in the Chapleau and Burwash Game Preserves and also on the Bruce Peninsula, while some of these animals have been observed on Beausoleil Island in Georgian Bay off Simcoe County.

BEAR:—These animals are both hunted and trapped but not very extensively, though there is an indication that increasing numbers of non-resident hunters are becoming interested in the spring hunt which has been provided during the months of April and May. They are available in varying numbers throughout the entire northern portion of the Province and are reported to be quite plentiful in many sections, and to a lesser extent in Parry Sound, Muskoka, Haliburton, Renfrew and the northern part of Hastings County.

RABBITS:—Rabbits continue to provide many opportunities which are favourable from the sportsman's point of view, and more particularly is this so in the southern counties. In this section of the Province cotton-tail rabbits are available in satisfactory numbers, while the jack rabbit (European Hare) is pretty well confined to the western counties though this species is slowly extending its numbers to the east and north. In northern Ontario snow shoe rabbits are the prevailing species and although they are reported to be quite scarce there are indications of improvement in some districts.

Rabbit hunting is a favourable activity of Ontario sportsmen during the fall and winter months. The "jack" is probably the most popular of the species because of its size and the open country it inhabits. Its long and powerful legs propel it at tremendous speed and the difficulty of hitting such a fast moving target intensifies the pleasure of the hunt. The "jack" does not readily capitulate. It has power and stamina which provide an excellent defense against all but the most experienced. The varying hare or snowshoe rabbit on the other hand has quite a burst of speed, but lacks the reserve power and physical courage of the "jack". It succumbs readily.

The cotton tail and the hare are in about the same class from the sporting standpoint, although the former provides a measure of additional sport to those who enjoy hunting with ferrets.

Hunters should realize that there is just as much danger of exterminating the rabbit through needless waste as any other species of game. This is particularly true in the more populous areas, where hunting is heavy and habitat restricted. Game which provides such healthy outdoor recreation at a minimum of expense is worth conserving.

SQUIRREL (Black and Grey):—These animals are quite numerous in the southern counties and particularly is this applicable to the western portion. They were afforded the protection of an entire close season which in all probability contributed largely to the improvement evident in the numbers of these varieties of squirrel.

PARTRIDGE:—Conditions as they applied to the various species of this desirable game bird were not sufficiently favourable to justify any action along the lines of an open season.

The sharp-tailed grouse or prairie chicken is found only in the northwestern districts and while scarce they showed signs of some increase.

As far as ruffed grouse are concerned, these birds exist throughout the Province, though their numbers are, of course, quite limited in the more settled sections. However, as previously stated in no section were they in any way numerous though reports received by the Department advised that improvement was noticeable principally in Northern Ontario and the northern districts and eastern counties of the southern part of the Province.

QUAIL:—These birds are found principally in the counties of Essex, Kent, Lambton and Middlesex, and in counties immediately adjacent to the eastern boundaries thereof, and in which section they are fairly plentiful. Scattered bevies of quail are reported also in some eastern counties, that is Stormont, Dundas and Glengarry.

PHEASANT:—During the year reported upon the Department intensified its pheasant re-stocking activities insofar as they applied to live birds, with the result that the distribution of eggs was to that extent curtailed. Departmental records reveal the fact that only 303 settings, or 4,545 eggs, were distributed to interested applicants, while live pheasants numbering 5,076 in all were liberated in suitable areas, 4,703 of which birds were placed in various Regulated Game Preserve areas, a scheme of protected areas inaugurated during the year, and to which scheme detailed reference is made later on in this Report.

The following references concerning the earlier efforts in connection with the re-stocking of pheasants will probably be of sufficient interest to warrant inclusion in this Report.

It seems rather a hopeless task to definitely determine the time and circumstances when the English ring-necked pheasant was first introduced into this Province. The only official record to be found is in the published reports for the Department. It is strange that while reference is made in some of them to conditions, no information is included as to when they were planted or by whom. The first reference found is in a report of the Ontario Game and Fish Commissioners for 1895, and concerns Mongolian and English pheasants, viz:—

"There is an increasing feeling among sportsmen that further and greater efforts must be made in the near future looking towards the restocking of game covers, and quail seems to be the only bird which offers a fair compensation for the outlay of time and money. As is well known, none of the other native birds admit of propagation so that restocking with them is out of the question. Some ardent sportsmen have introduced the Mongolian pheasant and also the English pheasant but sufficient time has not yet elapsed in which to test the success of the experiment."

The report of the same organization for 1896 mentions the fact that a number of English pheasants, about 120, were reared at Rondeau during the year.

And again in 1901:—"It has been suggested in consequence of the English pheasants that have been liberated on Point Pelee having done so well, that the Point should be made a preserve and no shooting or hunting at any time be allowed on the Point."

Finally,—reference is made to an open season, and the following is quoted from the Ontario Game and Fisheries Commission (Special Committee) Final Report, 1910,—"The open season for pheasants which was declared during the past year, resulted apparently in the satisfactory discovery that the birds were more plentiful than had been supposed, and most excellent sport would appear to have been enjoyed. Sufficient time, however, has not yet elapsed to enable a determination to be arrived at in regard to the advisability of repeating the experiment of an open season during 1911. Careful investigation should be made at this point by the proper authorities, for the pheasants in some localities have become so well acclimatized and are thriving to such an extent that it would be a grievous mistake to allow their numbers to become unduly diminished."

HUNGARIAN PARTRIDGE:—These birds are not very plentiful anywhere in the Province. So far as the north is concerned their numbers are negligible though evidence of their existence is reported from certain sections of Thunder Bay, Algoma and Temiskaming. They are most numerous in the very extreme southwestern counties, while reports indicate they are becoming more plentiful in some of the eastern counties. During the year 102 of these birds were distributed by the Department in selected areas.

**DUCKS:**—Generally speaking this species of migratory waterfowl provides quite a large proportion of the sport which is available to the hunter during any season, and the present restrictions which apply for their protection are providing a measure of conservation which will undoubtedly be beneficial and result in maintaining the supply for the enjoyment of sportsmen in future years. Reports from practically every section of the Province are quite favourable, though there are some areas in the north in which conditions are not too good.

GEESE:—There are not many areas in Ontario in which these birds may be successfully hunted, and while they are observed in flight during the fall and spring migrations in numerous sections the conditions which prevail during these migrations are such that during the open season which is provided any hunting which is available is pretty well restricted to the James Bay shore in the far north, and to a few of the extreme southwestern counties.

WOODCOCK:—This species is extremely scarce in Northern Ontario, and is none too plentiful in the southern portion of the Province. From reports to the Department it is apparent that most favourable locations are in some of the counties along the north shore of Lake Erie.

SNIPE:—As in the case of the woodcock, snipe are extremely scarce in the northern districts. They are reported to be somewhat plentiful in a number of the eastern counties, and while some improvement was observed in scattered areas throughout the southern counties as a general rule their numbers are sufficient to provide nothing more than fair shooting.

**PLOVER:**—Continues to be very scarce in practically every section of the Province, and no improvement indicated by reports.

During the year under review Regulations were approved which provided for special open seasons, details of which are as follows:—

- (a) Deer in that portion of Carleton County lying west of the Rideau River,—from November 5th to 20th, inclusive. General deer hunting regulations applied.
- (b) Deer in the counties of Bruce and Grey,—from November 8th to 13th, inclusive. General deer hunting regulations applied except that the use of dogs was not permitted.
- (c) Pheasants—Pelee Island, October 28th and 29th. Five birds per day. Special municipal license \$3.
- (d) Pheasants, quail and Hungarian Partridge,—The counties of Essex and Kent, October 28th and 29th. Three pheasants, three quail and two Hungarian Partridge per day.
- (e) Pheasants,—in the following Townships, which were established as Regulated Game Preserve Areas, viz:—Markham, Nelson, Trafalgar, Flamborough, E., Beverley, Ancaster, Saltfleet, Binbrook, Barton, Humberstone, Canborough, Dunn, Cayuga North, Cayuga South, Oneida and Seneca, October 28th and 29th. Three birds per day. Special municipal license \$1. per day.
- (f) Pheasants,—in the following Townships, which were established as Regulated Game Preserve Areas, viz:—Grimsby North, Clinton, Louth, Grantham, Niagara, Caistor, Willoughby and Bertie, October 28th. Three birds per day. Special municipal license \$1.00.

## FUR BEARERS

Conditions as they apply to fur bearing animals throughout the Province are set forth in the following references, as summarized from reports of the Field Service staff to the Department:—

BEAVER:—These animals had the protection of an entire close season, though it was found necessary to open the season on Manitoulin Island for the first fifteen days of November. Trapping of these animals under the regulations which prevailed restricted such operations to trappers and farmers actually resident on Manitoulin, limited the catch of each person to not more than ten beaver, and required that pelts so taken be disposed of under supervision of the Department. The close season which has been in effect has resulted in a noticeable increase in the numbers of these animals practically throughout the entire Province.

FISHER:—This species is extremely scarce throughout the Province and few if any are taken anywhere south of the French and Mattawa Rivers.

FOX:—Conditions remained pretty much the same in the various sections in which these animals have been found, with improvement and decreasing numbers reported from different districts. There was unquestionably no general increase, which would appear to be supported by the fact that there was quite a noticeable decrease in the numbers of the various species of fox taken during the season. Silver fox now are very seldom taken in the wild.

LYNX:—This species also is extremely scarce everywhere in the Province, and while the pelt is one of the most valuable of those taken in the wild the trapper does not derive much of his revenue therefrom.

MARTEN:—Very scarce, and while there was an increase in the number of pelts taken during the season, such increase should not be regarded as an indication of any permanent or general improvement.

MINK:—There would appear to be no doubt that this species is becoming less numerous in many areas. There were few sections in which conditions were favourable or any improvement observed.

MUSKRAT:—Conditions in Northern Ontario particularly were not at all good, and while there were some sections in Southern Ontario from which favourable reports were received, generally speaking conditions here were only comparatively fair. The decline in the annual catch which has now been progressing over a number of years continued during the season reported upon.

OTTER:—These animals are to be found chiefly in Northern Ontario, and even there they are not particularly numerous. Conditions remained about the same as is indicated by the annual take. While continuing scarce some improvement was reported in scattered areas.

RACCOON:—This species does not inhabit the north. General conditions in southern Ontario remained about the same. They are not plentiful anywhere, and reports indicate that generally speaking their numbers are possibly decreasing to some extent.

**SKUNK:**—While these animals were reported to be very plentiful throughout the entire Province there was quite an extensive decrease in the number taken by trappers during the season.

**WEASEL:**—This species continues to be very plentiful in every portion of the Province, with the possible exception of certain counties in the southwestern peninsula. The catch was about the same as in the previous year.

There can be no question as to the necessity of the present restrictions which are provided by the Game and Fisheries Act as a means of protecting existing fur bearing animals in this Province, and while in some particular instances these regulations may appear to be unnecessary appearances of such a nature are deceptive. As a general rule the more desirable species of fur bearers are diminishing in number, no doubt attributable for the most part to decreased suitable and available habitat as well as to the intensified trapping operations to which these animals have been subjected in past years. In Northern Ontario all the species of fur-bearing animals mentioned in this report are to be found in varying numbers while in Southern Ontario at the present time fur bearing animals would include fox, mink, muskrat, raccoon, skunk and weasel, and, to a lesser extent beaver and otter, the other species herein referred to being practically extinct in this section.

There is no doubt that the year under review was an extremely difficult one for the trapper, because as will be observed from the following comparative statement not only was there a considerable decrease in the number of pelts actually taken and disposed of but the prices which these pelts commanded on the open market were indeed quite low, and much below what has been recorded as average in more recent years.

This comparative table shows the numbers of pelts of the various species of fur bearing animals which were exported from or dressed within the Province, during the year under review as well as in the two years immediately preceding:—

	1935-36	1936-37	1937-38
Bear	411	476	496
Beaver	6,785	238	235
Fisher	2,137	2,117	1,463
Fox (cross)	5,424	4,156	2,426
Fox (red)	37,044	35,232	24,912
Fox (silver or black)	500	360	201
Fox (white)	883	17	47
Lynx	2,642	2,081	1,284
Marten	1,282	1,464	1,709
Mink	47,057	33,930	22,766
Muskrat	398,043	370,239	343,972
Otter	3,701	3,779	3,737
Raccoon	13,259	14,243	13,194
Skunk	50,747	87,950	61,576
Weasel	42,643	78,643	79,853
Wolverine	4	2	5
	613,057	635,203	557,876

Information compiled in the Department shows that these furs were worth to the trappers responsible for taking the same, the sum of \$966,552.92, which is but little more than fifty per cent of the amount realized from such sales in the previous year.

To these figures should be added statistics as they apply to the product of licensed fur farms not subject to the payment of royalty, including silver, black and cross foxes and mink. Furs disposed of during the year by these fur farmers included 33,235 silver fox pelts worth \$683,643.95, 26,480 of which were exported and the remaining 6,755 dressed in the Province; 24,864 mink pelts worth \$209,852.16, 24,381 of which were exported and the remaining 483 dressed in the Province; and 233 cross fox pelts worth \$3,467.04, 192 of which were exported and the remaining 41 dressed in the Province.

## FUR FARMING

During the year there were 1,536 licenses issued to authorize fur farming operations. Of this number some 331 were new licenses. As compared with the previous year there was a net increase in the number of licensed fur farms under operation totalling 188. The records show that silver foxes were raised on 986 of these fur farms, cross foxes on 103 fur farms, red foxes on 133 fur farms, mink on 614 fur farms, and raccoon on 91 fur farms. There were 859 fur farms on which operations were confined to foxes, 451 fur farms on which only mink were raised, while on 38 fur farms only raccoon were propagated. On the remaining 188 fur farms operations were not limited to any one species.

The subjoined comparative table shows the total breeding stock retained on these licensed fur farms as on the first day of January in each of the years included therein:—

SUMMARY OF BREEDING STOCK ON LICENSED FUR FARMS
AS AT JANUARY 1ST

	1936	1937	1938
Beaver	70	21	25
Fisher	16	20	16
Fox (cross)	367	257	235
Fox (red)	228	207	140
Fox (silver or black)	21.645	23,869	24.848
Fox (blue)	5	0	0
Lynx	2	ž	ž
Mink	$12\ 33\overline{2}$	$15.53\overline{9}$	$21.98\overline{2}$
Muskrat	375	351	302
Raccoon	524	358	351
Skunk	2 2	336	331
Bear	21	15	15
	21	19	
Marten	4	4	11

It will be observed that silver fox and mink represent by far the greater proportion of the activities which are carried on by the operators of these licensed fur farms, and though in each instance an increase is indicated, that in the case of mink far exceeded the increase in silver fox. The raising of mink is rapidly becoming an important branch of the fur farming industry. One can realize the truth of this statement when it is noted that the stock of mink maintained on these fur farms increased from 8,605 to 21,982 in a period of only three years.

### CROWN GAME PRESERVES

One of the first measures taken to preserve the game in the Province of Ontario was the setting aside of large areas of land as Provincial Parks. In these Parks no hunting or trapping is permitted and the wild life is given a chance to increase and develop under natural conditions and without molestation from man. These protective areas proved so successful that the idea was extended and large areas of crown lands in Northern Ontario have been set aside for the same purpose under the Department of Game and Fisheries. These areas are known as Crown Game Preserves. At the present time there are 116 such Crown Game Preserves with an area of approximately 6,068,914 acres.

While the largest portion of this area is situated in Northern Ontario it has been possible to establish a number of preserve areas in the southern part of the Province with the co-operation of owners of private property. These areas will be primarily useful for the protection and propagation of upland game birds, although all species of desirable game will be protected.

It is generally acknowledged that where wild life is allowed to propagate with a minimum of human interference and in surroundings which provide natural food and cover there will in time be a return to the normal conditions set up by nature. This means not only increased game in the protected areas but a general improvement in conditions throughout the Province.

During the year five additional Crown Game Preserves were established in southwestern Ontario in accordance with the schedule appended hereto, and changes were made in the boundaries of the Jocko Crown Game Preserve in the District of Nipissing and in the Peasemarsh Crown Game Preserve, in the County of Grey.

Designation				County	Extent in Acres	
Highgate Long Branch	"	Game	Preserv	/e	Waterloo Kent Peel Welland Norfolk	1,200 575 450 5,000 400

## REGULATED GAME PRESERVE AREAS

The year saw a new development in the matter of the control of indiscriminate hunting. In line with the desire to provide better hunting and to maintain in large measure the privilege which sportsmen have enjoyed for generations of using private lands in the pursuit of game, arrangements were entered into between the Department and some twenty-seven Townships whereby hunting in these Townships would be restricted to certain open seasons for pheasants and rabbits, and that only those who had the necessary hunting license issued by the Municipality would be authorized to take advantage of the open dates. This had the effect of creating these areas as Regulated Game Preserves because of the fact that hunting was prohibited except on open dates as proclaimed on the recommendation of the Department. These open dates were limited to a two-day pheasant shoot and a seasonal period during the winter for rabbit hunting. It had an additional effect of preventing an influx of non-residents to the area because the number of special licenses issued was based on the number of available pheasants and only those with a pheasant license were permitted to partake in the rabbit hunting. The Municipality collected a small fee for the license. The Department stocked these areas with several thousand live birds and hopes to largely increase its pheasant production for the restocking of these Regulated Areas.

By concentrating the restocking of pheasants on these Regulated Areas, rather than scattering the available birds over a large section of Southern Ontario and thereby thinning the numbers in most counties below the point where hunting is desirable, it is believed a sufficient quantity of birds will be raised to warrant an open season. The bag limit which would apply during an open season would permit the taking of cock birds only. Continuous replenishment of the stock will be part of the plan so that an open season simply means a temporary reduction of the surplus stock. In other words protecting the hens will maintain an ever increasing brood stock and the surplus destroyed during a shoot will be replaced to take care of the next open season.

Several specific and important results are anticipated from this arrangement. First, and quite important, is the fact that the farmer will not be subject to the expense and inconvenience of having irresponsible hunters tramping over his lands and damaging property during the whole gun license season. It is well known that the actions of a few have brought about a feeling of animosity between the farmer and the sportsman, a situation which threatens to put an end to free hunting. Those who

obtain a license during the open season will be readily identified, and abuse of the privilege will mean prosecution and cancellation of any future privileges. As the carrying of fire-arms for hunting purposes within such Regulated Areas is forbidden, except during such open seasons as may be prescribed and then only under the authority of a special license, it is hoped to eliminate practically all of the poaching which otherwise takes place.

It is pleasing to learn that the open seasons established in these Regulated Townships were quite successful and have done much to stay the epidemic of land posting which threatened so seriously to curtail the opportunity for hunting over private lands. It is not suggested, of course, that the present arrangements are perfect, experience will doubtless bring minor changes in control and regulation but the inauguration of such a scheme will, we believe, receive the approbation of every sportsman when its underlying benefits become better known.

The various townships which entered this scheme of Regulated Game Preserve Areas during the year are as follows:—

The Township of Markham, in York County;

The Townships of Nelson and Trafalgar, in Halton County;

The Townships of Flamborough East, Beverley, Ancaster, Saltfleet, Barton and Binbrook, in Wentworth County;

The Townships of Grimsby North, Clinton, Louth, Grantham, Niagara and Caistor, in Lincoln County;

The Townships of Stamford, Willoughby, Bertie and Humberstone, in Welland County;

The Townships of Canborough, Dunn, Cayuga South, Cayuga North, Oneida and Seneca, in Haldimand County.

Part of the Township of Westminister, in Middlesex County;

The Township of Bayham, in Elgin County.

### WOLF BOUNTIES

The following is a comparative table of condensed wolf bounty statistics covering the last four fiscal years:—

Period	Timber	Brush	Pups	Total	Bounty & Expenses
For year ending Oct. 31, 1934. For year ending Mar. 31, 1936.		812 1,713	57 33	1,859 2,905	\$27,080.65 42,399.89
For year ending Mar. 31, 1937. For year ending Mar. 31, 1938.	1,090 $1,022$	1,197 837	31 30	2,318 1,889	33,360.63 27,474.24

During the year 1,380 claims for wolf bounty were paid in respect of 1,889 wolves as shown above, in addition to which 19 claims were disallowed for various reasons. Bounty was paid to 1,109 different persons, 735 of whom applied in connection with only one wolf each. Applicants submitting claims on two wolves numbered 179. The remainder of the applicants had claims for varying numbers, while the largest total bounty paid to any one person amounted to \$210.

Details as to the sources of origin of the pelts submitted for bounty are set forth in the following table:—

REPORT (	$^{ m OF}$	WOLF	BOUNTY	CLAIMS
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District on County	Adult '	Wolves	D	m-4-1
District or County	Timber	Brush	Pups	Total
Algoma	82	109	0	191
Bruce	13	6	0	19
Cochrane	38	2	4	44
Frontenac	6	0	0	6
Grey	0	2	0	2
Haliburton	8	0	0	8
Hastings	8	4	6	18
Huron	1	0	0	1
Kenora	263	144	16	423
Lambton	0	4	0	4
Lanark	1	1	0	2
Leeds	1	0	0	ī
Manitoulin	13	111	i	125
Muskoka	12	6	0	18
Nipissing	38	11	Õ	49
Norfolk	0	1	Ö	1
Lennox & Addington	7	ī	ŏ	8
Parry Sound	59	3	ŏ	62
Patricia	59	21	ž	82
Peterboro	ĭ	-0	ō	ĩ
Rainy River	$15\overline{5}$	188	š	346
Renfrew	24	0	ĭ	25
Simcoe	īî	ĭ	ō	12
Sudbury	$\vec{62}$	114	ŏ	176
remiskaming	2	2	Ö	110
Thunder Bay	161	112	3	276
Waterloo	101	112	ő	410
Welland	0	1	0	1
York	0	1	0	1
Potals	1,026	845	36	1,907

While the total expenditures incurred in connection with the administration of the Wolf Bounty Act amounted to \$27,474.24, actual bounty payments accounted for \$27,204.00 of this total, details of which are contained in the following statement:—

Brush Wolves	(Counties) (Districts)	$\begin{smallmatrix}21\\816\end{smallmatrix}$	@ @	$\begin{array}{c} 6.00 \\ 15.00 \end{array}$	\$ \$12	$126.00 \\ ,240.00$		
Total Brush V	Volves	837					\$1:	2,366.00
Timber Wolves	(Counties) (Districts)	$\begin{smallmatrix} 71\\951\end{smallmatrix}$	@ @	$\begin{array}{c} 6.00 \\ 15.00 \end{array}$	\$ \$14	$426.00 \\ , 265.00$		
Total Timber	Wolves	1,022					\$1	4,691.00
Pups	(Counties) (Districts)	$\begin{smallmatrix}1\\29\end{smallmatrix}$	@	\$ $\begin{array}{c} 2.00 \\ 5.00 \end{array}$	\$ \$	$\begin{smallmatrix}2.00\\145.00\end{smallmatrix}$		
Total Pups		30					\$	147.00
Grand Total		1,889					\$2'	7,204.00

In the northern districts the Province pays the entire bounty, but so far as claims originating in the southern counties are concerned, bounty is paid by the County Treasurers and forty per cent rebated to the counties by the Province.

Trappers and farmers were responsible for taking more than eighty per cent of the wolf pelts submitted for bounty, while it is reported that forty-five per cent of the animals were snared, twenty-six per cent trapped, twenty-one per cent shot, and the authorized use of poison was responsible for taking only three per cent. The remaining five per cent were taken by miscellaneous means.

## **GENERAL**

#### GAME & FISHERIES ACT.

The Game and Fisheries Laws are an important part of the Department's programme to properly conserve the heritage with which it is entrusted. They are not merely regulatory or restrictive but are, in reality, the controlling factors which determine the abundance or otherwise of our wild life resources. They are the result of biological knowledge and practical experience, and have been framed with due regard to the life history of the various species, particularly that phase of it which determines perpetuation. These laws have many classifications but in general they are intended to develop all classes of desirable wild life while permitting the greatest possible use of these resources, and to discourage certain undesirable forms which do not fit into the economic scheme of things.

A study of the laws and regulations will convince the most skeptical that they are an important part of the programme necessary for the conservation of our fish and game resources and that when the public is urged to observe the laws it is a request for co-operation in the management of a valuable trust. Non-observance of the regulations, however unimportant the details may seem, is unfair to that ever-increasing family of sportsmen and nature lovers who conscientiously obey the laws and pursue their recreational pleasures from the highest standard of sportsmanship.

Amendments enacted by the Legislative Assembly and which became effective during the year included the following provisions:—

- (a) Open season and other regulations governing the hunting of woodcock, snipe, ducks, geese and other migratory water-fowl to be as provided by the Migratory Birds Convention Act (Canada).
- (b) Parties of non-resident hunters to engage licensed guides when hunting moose.
- (c) Non-resident bear hunting license for the months of April and May at a fee of \$5.25.
- (d) Adjustment of royalties on the pelts of certain fur-bearing animals,—lynx, mink, otter and skunk. Ranch raised cross fox exempted from royalty.
- (e) Taking of does and fawns permitted in the proportion of one doe or fawn for each two hunters in the party.
- (f) Use of snares prohibited in Peel and Carleton Counties.
- (g) Permitting use of an automatic shot gun when so permanently reconstructed and plugged as to be capable of holding not more than two shells at any one time.

Amendments to the Fisheries Regulations adopted during the year included the following provisions:—

- (a) Minor changes in the open seasons for pickerel, lake trout and whitefish in certain northern districts.
- (b) Persons engaging licensed guides while angling not to include such guide as one of their number when computing the number or quantity of fish they are entitled to take.
- (c) Exportation of maskinonge by non-resident anglers restricted to one day's catch.

# TOURIST OUTFITTERS.

Complete reference to the system of licensing tourist outfitters operating in the northern portion of the Province was embodied in the previous Annual Report. The following analysis shows the distribution by Districts of the 498 camps which were licensed to operate during the year under review:—

# TOURIST OUTFITTERS CAMP LICENSES SUMMARY

Algoma 7	73
Cochrane	
Kenora 10	3
Manitoulin	7
Nipissing 9	1
Parry Sound 9	0
Patricia	1
Rainy River 2	8
Renfrew 1	0
Sudbury 4	7
Thunder Bay 1	. 5
Temiskaming	1
	_
Total	8

Four hundred and fifty-six of these camps were operated by residents of Ontario, the remaining forty-two by non-residents.

#### EDUCATIONAL.

In a previous report reference was made to the preparation and distribution of a Monthly Bulletin. This publication was originally produced wholly in the Department and took the form of a mimeographed booklet. Because of the work entailed it had necessarily a limited circulation, although many requests for copies were received. To ensure a wider distribution and to take care of the increasing demands for copies from Protective Associations, schools and private individuals, it was found desirable to have the material printed. Beginning with the May, 1937, issue, therefore, the Bulletin assumed a new form, and a greater significance as an educational medium in the sphere of wild life conservation. The original issue amounted to about 600 copies monthly, under the new scheme of publication the circulation immediately doubled and since then it has continued to increase with each issue.

In this connection we quote the following editorial comment from the June, 1937, issue of this Monthly Bulletin:—

"Education is the foundation of all intelligent thought and action. It is the most important factor entering into the conservation of our wild life and other natural resources. Such progress as has been made in protecting, propagating and re-stocking is due to the practical knowledge and scientific attainment. Practical knowledge of wild life conditions is the result of experience gained in actual personal contact and observations under natural conditions. It is not always reliable taken alone because unwarranted conclusions are frequently drawn from certain conditions or experiences which are open to several explanations. However, the practical value of such first-hand information is of very great importance as it serves to confirm the conclusions arrived at through scientific investigation. The combination of these two sources of knowledge is the basis of our conservation programme."

"Knowledge, however, is progressive. It knows no limitation. The ideas of yesterday are but the stepping-stones to future enlightenment and creative effort. In the field of wild life conservation more attention is being paid to the scientific investigation of life history and environmental conditions. The idea that our wild life resources are inexhaustible passed on with the horse and buggy and the carrier pigeon. Nature provided certain fundamental conditions necessary to wild life perpetuation. We have unwittingly disturbed these conditions and so, in order to keep pace with modern demands, we must take advantage of modern knowledge and experience. This means wise conservation laws based on biological knowledge and practical experience; the investigation of life history and natural conditions; the operation of hatcheries for intensive stocking; the setting aside of preserve areas for natural propagation and development, and the passing on of the knowledge acquired to the public through means of education and publicity. These things, the Department of Game and Fisheries is attempting to do. The results so far have justified the effort."

"The sportsman can do much to foster these plans by co-operating wherever practicable and by lending his aid to put across the ideals of conservation. These ideals have been developed over a long period of years. They embody the results of progressive thought and scientific knowledge, therefore they are modern and worth while. They proclaim individual responsibility as necessary to success, and organized effort the best method of accomplishing the greatest good for the greatest number. In short, conservation is education practically applied, and is the care of everyone interested in wild life preservation or better hunting and fishing."

# ENFORCEMENT SERVICE

Many people, who take but a superficial view of the matter, believe that all that is necessary to eliminate and control the ills which afflict organized society, is to enact regulatory laws designed to take care of the problem or problems involved. Laws are essential and necessary to good government, but they are not in themselves a panacea for all the troubles which beset our social and economic systems. Experience has demonstrated that the fewer the laws and the simpler their enactments to cover any particular subject the more effective is their enforcement.

The Game and Fisheries Laws are necessary to the proper administration and perpetuation of our wild life. They are designed with a view to providing the greatest possible individual liberty consistent with the wise use of the resources involved. These laws are respected by a large majority of the citizens of the Province and their observance becomes more and more a passport to good sportsmanship. However, despite their simplicity, we still have the law breaker, the man who continues to ignore legal restrictions and thereby takes unfair advantage of those who "play the game". It is too much to hope that we can entirely eliminate this offender, but there is good reason to believe that through our united efforts we can do much to show the careless and the thoughtless that observance of and respect for the Game and Fisheries Laws is quite an important feature in the protection and development of our wild life natural resources.

To administer and enforce the provisions of the Game and Fisheries Act the Department maintains a regular staff of Field officers throughout the Province. These men are designated Overseers or Game Wardens, and their duties consist of securing observance of the laws and regulations pertaining to fishing, hunting and trapping. Their task is a difficult one though they are invariably courteous but firm in carrying out their duties. These permanent members of our field staff constitute an important section of the protective service. However, their services are augmented by the assistance and co-operation of members of the Ontario Provincial Police Force as well as certain seasonal officers who are retained for varying periods in the matter of providing adequate patrol service along certain waters during the spring and fall fish spawning periods and protective work during the various hunting seasons.

Interested sportsmen also play a large part in the work of protecting our fish and game resources. During the year some 876 sportsmen conservationists offered their services and were accepted as Deputy Game Wardens, and as such are authorized to assist in obtaining proper observance of the Act and Regulations. The practical support and moral effect of this army of voluntary workers is of very great importance in preventing abuses of the privileges enjoyed by sportsmen.

The Department deplores the fact that it is necessary to prosecute in order to obtain proper observance of the Game and Fisheries Laws. It is hoped that through education, an enlightened public opinion, and a general knowledge of the value of our resources the law breaker will become so unpopular that his depredations will be considerably reduced. In the meantime, however, the poacher, the unscrupulous trapper and the petty lawbreaker still keep the enforcement officers busy.

During 1937-38 there were some 1362 cases in which offenders against provisions of the Game and Fisheries Act and Regulations were apprehended in their offences by members of the Field Service Staff who promptly relieved those involved of the articles of sporting equipment they carried as well as the unlawful game or fish they might have had in their possession on such occasions. From an examination of the reports supplied in these cases it is learned that action was provided by

Game and Fisheries Overseers in 1157 of these cases, by Deputy Game Wardens in 62 cases, by members of the Ontario Provincial Police Force in 48 cases, and in the remaining 95 cases by co-operative action amongst Overseers, Deputy Game Wardens, and Provincial Police Constables.

A condensed summary of the material confiscated shows the following:-

Live animals ir		
Birds, game animals and meat ir	160	cases
Firearms and ammunition in		
Fish ir	209	cases
Nets and fishing equipment ir	213	cases
Angling equipment ir	84	cases
Pelts and hides in	228	cases
Traps and equipment in		
Water craft in	29	cases
Motor vehicles in	11	cases
Lights ir	21	cases
Spears in	66	cases
Miscellaneous in	52	cases

Duplicate entries on one seizure report, such as firearms and game; angling equipment and fish; trapping equipment and pelts, and other combinations of a similar nature account for the apparent discrepancy in the total shown by the foregoing table, viz, 1706, as compared with seizure reports numbering 1362.

Departmental records disclose the fact that during the year reported upon some 1108 cases were prosecuted through the courts, and that convictions were registered in 1045 of these cases, while charges in the remaining 63 cases were dismissed by the Magistrates who presided thereon. Game and Fisheries Overseers prosecuted in 960 cases and were successful in 913; Provincial Police Constables in 67 cases and secured convictions in 62; Deputy Game Wardens in 18 cases in 16 of which convictions were registered; while co-operative action by Overseers, Provincial Police and Deputy Game Wardens resulted in 54 convictions out of the 63 cases prosecuted.

While each officer is required to be impartial and efficient in the carrying out of his duties he is also required to use common sense and display courtesy in his treatment of the general public with whom he comes into contact. We believe that as a general rule the members of our enforcement service are guided by these requirements at all times. Public service is synonymous with criticism rather than commendation. The control which is essential to the proper administration of a trust, such as our wild life resources, is often irksome to those who object to anything in the nature of restrictions on their so-called "liberties". As a consequence enforcement frequently results in irritation. For this reason we are always glad to receive letters such as the following from one of our United States visitors who resides in the State of Ohio. He writes, "For ten years I have been coming to your Province to do my fishing and the courtesy and consideration extended to me by the officials of your bureau and the citizens of the various communities visited has been very gratifying to me."

# THE FISH CULTURE BRANCH

Waters abounding in fish are an asset to any community. Increased fishing possibilities mean increased tourist travel; this stabilizes various business enterprises, especially in recreation centres noted for their game-fish. Apart, however, from the direct and indirect financial benefits of a rapidly increasing tourist trade, the healthful and recreational advantages associated with game-fishing are of inestimable value.

The maintenance of the commercial fishing industry is also of vital importance to the Province. Information regarding the value of this enterprise is summed up in the statistics of the fishing industry for the year in appendices 3 and 4.

The successful maintenance and increased usefulness of these interests are being developed in a variety of ways and the re-stocking of lakes and streams in a practical manner is of outstanding importance in this connection. To this end a vigorous fish cultural programme is being pursued with satisfactory results.

# HATCHERIES AND REARING STATIONS

During the year the Department operated twenty-four fish cultural stations. The actual number of hatcheries operated was twenty; trout rearing stations, eleven; bass rearing stations, four, and additional facilities were provided as outlined in the following paragraphs.

At the Fort Frances hatchery facilities were provided for carrying lake trout to the fry and early fingerling stages.

An excellent site for bass rearing ponds was located at the outlet of Lake Manitou, Manitoulin Island, in the vicinity of Sandfield. One pond was completed before the end of the year and was used, successfully, for wintering trout fingerlings to the yearling stage.

A second bass rearing pond, approximately one acre in area, was provided at the White Lake Station, Frontenac County. Speckled trout were wintered in this new pond very successfully.

An additional trout pond was added to the series of three on the property of the Ontario Government Reforestry Station at Midhurst, and acquired for use by the Department.

The water supply from Waring's Creek, located one and one-half miles west of Picton, was used for rearing trout fingerlings. This station was provided with outside rearing troughs of portable construction.

#### SPECKLED TROUT:

The Department continued the policy of rearing large numbers of trout to yearling and older stages for distribution to suitable public waters. The results of this plan have been successful.

The following comparative distribution figures indicate the progress that is being made:

	1936	1937
Yearlings	557,270	1,167,073
Adults	6.081	16.150

In addition, 384,725 fingerling trout were planted, slightly more than one-third the number planted the previous year. The entire abandonment of the distribution of trout fry and fingerlings is contemplated, with the exception of any surplus which cannot be accommodated in our rearing stations.

### BROWN TROUT:

Excellent progress was made in regard to rearing brown trout to the yearling stage. During the year 97,484 yearling and older brown trout were distributed as compared with 7,290 during a similar period in the preceding year.

Encouraging reports of successful angling for this species have been received and intensive re-stocking of suitable streams in southern Ontario is being pursued on the basis set forth in the two preceding reports.

# RAINBOW TROUT:

## (a) Steelhead Trout-

The waters chosen for the planting of steelhead trout were such as to fulfil the natural requirements of this species; the number of steelhead rainbows planted was somewhat less than the number planted in 1936, but the number of Kamloops trout (an allied species) distributed made up for this deficit.

### (b) Kamloops trout-

This variety of rainbow trout is native to a number of lakes in the interior of British Columbia. It is an excellent sporting fish and may be taken on the fly and by trolling. Excepting during hot summer weather they are usually taken near the surface. One important characteristic is that they show very little tendency, if any, to migrate from the lakes in which they are planted.

Speckled trout lakes supplied with good tributary streams are considered suitable for Kamloops trout.

Eighty thousand fingerlings of this species were planted during the year.

Returns from previous plantings in Echo Lake (Muskoka) and a small lake adjacent to Lake Timagami, are, we hope, forerunners of greater success to be achieved from the distribution of this important variety to a number of our lakes.

#### LAND-LOCKED SALMON:

The Department was unable to secure any eggs of this species from the Province of Quebec or elsewhere. The land-locked salmon hatchery at St. Felicien, Quebec, has not operated for some time.

A small number of fry of the Atlantic salmon, a closely related species, were planted on an experimental basis.

A few excellent specimens of land-locked salmon planted in Skeleton Lake, Muskoka District, have been caught by angling.

#### LAKE TROUT:

There was an increase in the distribution of eyed eggs and fry over the number distributed in the preceding year amounting to 7 per cent. There was a decrease in the distribution of fingerlings amounting to 13.6 per cent. For the egg collection, the Department depends on the co-operation of the fishermen and the work of our own spawntaking crews. Stormy weather in the fall, either continuously or intermittently, interferes with the work; this condition was particularly detrimental during the fall of 1937.

### WHITEFISH:

There was a decrease of approximately 9.6 per cent in the distribution of whitefish as compared with that of the previous year; this was due to the reduced collection of spawn from the North Channel and Lake Ontario whitefish.

### HERRING:

The large decrease in the distribution of herring fry was due in the main to the reduction in the collection of eggs from Lake Ontario herring and a greater reduction in the collection from Lake Erie herring, the latter collection being practically negligible. There are very hopeful signs that the population of herring in Lake Erie is gradually increasing after the disastrous decline in 1925. If the present population is permitted to spawn at least once, and preferably twice, before they are taken commercially, there will be a decided increase of this very important commercial species. As a result large collections of spawn should be available in future years.

#### YELLOW PICKEREL:

There was a decrease of 12.4 per cent in the distribution of pickerel fry as compared with that of the preceding year, due primarily to the reduced collection of pickerel spawn in the southern portion of Lake Huron.

Following the usual practice, two million eyed eggs were handled by the Sparrow Lake hatchery, the fry being distributed to suitable areas of Sparrow Lake.

#### SMALL-MOUTHED BLACK BASS:

Excellent results were obtained in connection with the culture of small-mouthed black bass; the increased production of fry and fingerlings was 63.4 per cent and 104.5 per cent, respectively, over that of the previous year.

There was also a slight increase in the distribution of yearlings and older bass, as a result of bass harvesting from natural areas; a limited amount of this work is conducted by our hatchery officers, annually.

#### LARGE-MOUTHED BLACK BASS:

Following the previous year's practice, one pond was operated for the production of this species with satisfactory results. This pond, which is 0.64 acres in area, produced 135,000 fry and 4,120 fingerlings.

#### YELLOW PERCH:

Due to a diminished run of spawning fish, there was considerable reduction in the number of perch eggs collected by the commercial fishermen in the vicinity of the Kingsville hatchery, where the eggs are cultured to the fry stage.

#### BLUE PICKEREL:

Blue pickerel spawn was collected in the west end of Lake Erie and cultured to the fry stage in the Kingsville hatchery; this was the first time that such work was undertaken by our Department.

This is a species of considerable commercial value in Lake Erie, and artificial culture is one way by which its maintenance may be assisted.

#### MASKINONGE:

The distribution of maskinonge fry was increased 53.5 per cent over that of the preceding year, due largely to a much more satisfactory collection of eggs. One chief drawback was prevailing cold weather during the incubation period, which retarded development. This condition was followed by a sharp rise in temperature, causing too rapid development and hatching.

The difficulties surrounding the culture of this important species were outlined in the previous year's report, and the information given applies with equal force to the results obtained in 1937.

In Wisconsin the culture of maskinonge has been pursued for thirty to forty years. A large number of eggs are collected from areas where the parent fish are abundant, and a large number of fry are planted annually, but the rearing of fingerlings is a much more difficult matter; Wisconsin is reported to have reared 1,417 fingerlings of this species in 1937. New York State has likewise pursued the culture of maskinonge for over thirty years. This work is concentrated on Lake Chautauqua where parent maskinonge are plentiful and, therefore, egg collection and fry production large; in 1937 it is recorded that New York State planted 856 maskinonge fingerlings. In Minnesota progress along these lines has been slow on account of the scarcity of the breeding fish. Small numbers of fry have been distributed, but there is no authentic or definite record of the number of fingerlings actually reared up to and including 1937.

In Ontario these activities are concentrated in the Kawartha Lakes region and for good reasons. In the first place, these waters have the necessary or essential conditions for producing maskinonge. Secondly, this area requires intensive restocking on account of the intensity of the fishing. A good indication of the capacity of these lakes to produce maskinonge is given in the statistics of catch from 1892 to 1901, when this important species was taken in large numbers, commercially.

The Department is endeavouring to maintain and to build up the maskinonge supply in a variety of ways, which may be summed up in a more or less concise manner as follows:

- 1. Restricted bag limit and restricted number of days' fishing.
- 2. Protection of the normal population in sanctuary areas, taking in waters adjacent and outside these areas only the natural increase from them. An explanation of the purposes of these sanctuaries was given in detail in the previous year's report.
- 3. The planting of fry in suitable areas.
- Further studies regarding the possibilities of rearing fry to the fingerling stage.

# CLOSED WATERS

In addition to those waters already closed for the natural protection and propagation of fish, the following closures were authorized during the year.

# (a) For Speckled Trout Propagation:

### DUCHESNEY CREEK,

Townships of Commanda and Widdifield, District of Nipissing.

## IDLWYLD STREAM,

Township of Waterloo, County of Waterloo.

## JOHNSON CREEK,

Townships of Kowkash, Paska, and Rupert, District of Thunder Bay.

### LITTLE JOCKO RIVER.

From Morrow's Dam, east to its outlet into Big Jocko River, District of Nipissing.

### MALTA LAKE,

Township of Boulter, District of Nipissing.

#### NELLIE LAKE,

Townships of Calver and Aurora, District of Cochrane.

## PATTERSON'S CREEK.

Townships of Wawanosh and Hullett, County of Huron.

#### PUMPHOUSE CREEK.

Townships of Hart and Cartier, District of Sudbury.

## WHITEHEAD'S CREEK,

Township 67, District of Algoma.

## (b) For Black Bass Propagation:

## ARCAND LAKE.

Township of McBeth, District of Sudbury.

### FOUR MILE LAKE,

Township of Widdifield, District of Nipissing.

# GEORGIAN BAY (Portion).

- (a) An area approximately 1 mile square lying west of Electric Island.
- (b) An area approximately 1 mile square lying west of Lot 51, Concession VIII., Township of Harrison, District of Parry Sound.
- (c) An area lying east of and extending approximately 2 miles along the shore line opposite Concessions XIII. and XIV., Township of Harrison, District of Parry Sound.

#### TWELVE MILE CREEK,

Townships of Nelson and Trafalgar, County of Halton.

### (c) For Lake Trout Propagation,

### OTTER LAKE,

Township of Foley, District of Parry Sound (Effective from the 16th day of November in each year to the 15th day of May next following).

# WATER LEVELS

During the past three years, marked improvement has been shown in regard to the control of water levels. Biologically, proper control is of the greatest importance, especially when we consider that bass, maskinonge, pike, sunfish, minnows, and many other species spawn in shallow water, and that their immature stages, or adult stages, or both, live in comparatively shallow water. The fall spawning fish such as lake trout, herring, and whitefish run into comparatively shallow water and spawn on suitable shoals or grounds. The spawning depth of water for these fall spawners is much greater than that required by black bass, which is about two feet, or by minnows, which is only a few inches. The withdrawal of water from these shallows is menacing to the eggs of the spawning fish, this depending on the spawning depth and the drop in water level, but quite apart from this, the withdrawal of water from the shallows destroys myriad forms of life, for example, those of sedentary habit, those temporarily attached, the algae which harbour minute life, shellfish, and insects, and aquatic plants of various kinds.

#### REMOVAL OF COARSE FISH

Between December 20th and January 16th hoop nets were operated for the removal of ling from the following waters:

- (a) In Leeds County,— Charleston, Grippen, Wolfe, and Otter Lakes.
- (b) In Lanark County,— Tay River and Otty Lake.

The total number of ling removed from these waters was 6,520; the average weight of the ling was 7 pounds, and the total weight of ling removed was in the neighbourhood of 45,640 pounds or 22.8 tons.

Similar operations were conducted on Lake Manitou, Manitoulin Island. During the whitefish spawntaking operations in the lake 4068 pounds of ling were taken in pound nets. The average weight of each ling was approximately six pounds. Night lines were used experimentally without satisfactory results.

During the latter part of February and in March of 1938, hoop nets and gill nets were operated and 2270 pounds of ling taken. Each of these averaged four pounds in weight.

# BIOLOGICAL SURVEYS

Pollution surveys were conducted on the Rainy River, Maitland River, (Goderich), and the Niagara River.

Fish planting surveys were carried out on the Holland River, Bradford, and Waterworks Pond at Richmond Hill.

Extensive surveys were conducted in connection with suitable sites for black bass rearing ponds on Manitoulin Island, Muskoka District, and Peterborough County. Surveys were also conducted in the Timiskaming District in regard to a suitable site for a trout rearing station.

With the exceptions noted above, all the work of a biological nature was concentrated on the fish cultural activities carried on in our hatcheries and rearing stations.

The Ontario Fisheries Research Laboratory of the Department of Biology, University of Toronto, conducted field investigations, coupled with laboratory studies on a number of waters in Algonquin Park during the season 1937-38, and the following is a concise account of this important work:

"One of the principal functions of this laboratory is to examine the conditions in game fish producing lakes and streams. Information obtained in this way gives a better understanding of how rapidly fish grow and how a good supply can be maintained. During 1937-38 the work was carried on in the lakes and streams of Algonquin Park.

The major studies undertaken during the year included an investigation of the vertical distribution of the young of the yellow perch in relation to their availability as food for lake trout. The food of the young perch was studied in order to learn what governed the supply of this important source of trout food. The food was found to consist of 85% *Daphnia* or water fleas, 10% small insect larvae and 5% sunfish fry.

Other studies were directed to the production of insects in the lakes and streams from the point of view of their value as food for fish.

The collection of angling statistics was continued and extended. These figures are now extensive enough to make possible a preliminary estimate of the natural productivity of the Algonquin Park lakes with respect to lake trout. They have also proven their value in following the trend of speckled trout production in Red Rock lake, and have made possible the application of measures designed to keep up production in this important lake.

During the year about 200 adult lake trout were transferred to Cache lake, some by truck and some by air, with satisfactory ease and economy. Some 2,000,000 perch fry, 100,000 lake herring fry, and some minnows were planted in Cache lake. These forage fish were introduced for the purpose of increasing the food for the bass and the lake trout."

# ACKNOWLEDGMENTS

In conclusion I desire to give expression to my appreciation of the valuable assistance and co-operation rendered the Department from many sources during the year, and more particularly from the various Fish and Game Protective Associations as such and the individual members of these organizations. The sphere of activity of these Protective Associations is extending and the interest and influence of the members of these organizations and other sincere sportsmen is sufficiently evident to warrant the assertion that it is practically impossible to estimate the benefits derived by the Department therefrom in our efforts along the lines of providing an efficient administration and supervision of the wild life natural resources of this Province. Such a measure of co-operation encourages us to intensify our endeavours to preserve unimpaired and possibly improve the opportunities which exist in this Province to those who so desire to enjoy such healthly recreation which our fish and game make available.

It might also be stated that, generally speaking, members of the Staff, both the inside and outside service, have conducted themselves and performed the duties assigned to them in the best interests of the Department and its varied activities.

All of which is respectfully submitted.

I am, Sir,

Your obedient servant,

D. J. TAYLOR,

Deputy Minister of Game and Fisheries

Toronto, April 12th, 1939.

# APPENDIX No. 1

LARGE-MOUTHED BLACK	BASS	Carleton:	
FRY		Ottawa River	15,000
Bruce:		Rideau River	10,000
Marle Lake	5,000	Frontenac:	
Maryville Lake Saugeen Lake	$10,000 \\ 10,000$	Big Gull Lake	10,000
Saugeen Lake	10,000	Clear Lake (Kennebec)	5,000
Grey:		Fortune Lake	5,000
Mountain Lake	10,000	Long Lake (Clarendon)	5,000
Saugeen River	15,000	Mink Lake Pine Lake	5,000 5,000
Muskoka:		Sand Lake	5,000
	= 000	Sharbot Lake	10,000
Bass Lake	$\begin{smallmatrix}5,000\\10,000\end{smallmatrix}$	Sunday Lake	5,000
Wood Lake	10,000		
	•	Grenville:	
Parry Sound:		Nine Mile Reach	5,000
Limestone Lake	5,000	Hastings:	
Little Lake	$\begin{smallmatrix}5,000\\10.000\end{smallmatrix}$	Baptiste Lake	15,000
Wolf Itivel	10,000	Crow Lake	10,000
Simcoe:		Gunter Lake	5,000
Gloucester Pool	25,000	Little Salmon River	$\begin{array}{c} 5,000 \\ 10.000 \end{array}$
37		Moira River Stoco Lake	10,000
York:	<b>45</b> 000	Tongamong Lake	5,000
Lake Simcoe	15,000		
FINGERLINGS		Lanark:	
Durham:		Bennet's Lake	5,000
Lake Scugog	1,000	Black Lake	$\begin{array}{c} 5,000 \\ 10.000 \end{array}$
		Clear Lake	5,000
Haliburton:		Dalhousie Lake	5,000
Black Lake	500	Mississippi Lake	10,000
Nipissing:		Fagan's Lake	5,000
Blackwater Lake	1.000	Otty Lake	5,000 $5,000$
	•	The Bane	0,000
Norfolk:		Leeds:	
Little Lake	500	Beverley Lake (lower)	10,000
Teeterville Pond	500	Big Rideau Lake	40,000
York:		Charleston Lake Clear Lake	$10,000 \\ 5,000$
Mary Lake	510	Crosby Lake	5,000
Waterworks Pond	110	Gananoque Lake	10,000
1 TO 111 May		Grippen Lake	5,000
ADULTS Oxford:		Indian Lake Newboro Lake	$10,000 \\ 5,000$
Lakeside Lake	42	Opinicon Lake	10,000
Maplehurst Lake	50	Sand Lake	5,000
maplemator zane	00	South Lake	5,000
SMALL-MOUTHED BLACK	BASS	Troy Lake	5,000
FRY		Lennox:	
Bruce:		Lime Lake	5.000
Britain Lake	5,000	Long Lake	5,000
Burford Lake Cameron Lake	10,000	Slave Lake	5,000
Chesley Lake	$\begin{smallmatrix}10,000\\10,000\end{smallmatrix}$	South Beaver Lake	5,000
Gould Lake	10,000		
Isaac Lake	15,000	Muskoka:	F 000
Miller Lake	10,000	Beaver Lake	5,000
Pearl Lake	$\begin{smallmatrix}5,000\\15,000\end{smallmatrix}$	Buck Lake	5,000 $5,000$
Shouldice Lake	10,000	Dickie Lake	10,000
Silver Lake	10,000	Kahshe Lake	5,000

SMALL-MOUTHED BLACK	BASS	Prince Edward:	
—Continued		East Lake	5,000
Muskoka—Continued		West Lake	5,000
Lake Joseph	25,000	Simcoe:	
Lake Stewart	15,000	Cook's Lake	10,000
Leech Lake	5,000	Gloucester Pool	40,000
Morrison Lake Rat Lake	$\substack{10,000\\5,000}$	Kempenfeldt Bay	25,000
Silver Lake	5,000	Little Lake (Vespra) Park Lake (Tay)	$\begin{smallmatrix} 5,000\\10,000\end{smallmatrix}$
Wood Lake	10,000	rark Lake (Tay)	10,000
Northumberland:		Stormont:	
Bidy Lake	5,000	Nation River	15,000
Crow Bay	5,000	Victoria:	
Crow River	10,000	Balsam Lake	25,000
Rice Lake	15,000	Big Mud Turtle Lake	10,000
Trent River	10,000	Burnt River	15,000
Ontario:		Cameron Lake	25,000
Lake St. John	20,000	Dalrymple Lake	15,000
Dake St. John	20,000	Head LakeLittle Mud Turtle Lake	$15,000 \\ 10,000$
Parry Sound:		Pigeon Lake	25,000
Balsam Lake	10,000	Round Lake	5,000
Bass Lake (Humphrey) .	5,000	Silver Lake	10,000
Bass Lake (Patterson)	10,000	Sturgeon Lake	25,000
Beaver Lake (Foley)	5,000	York:	
Blackstone Lake	10,000	Lake Simcoe	25,000
Blackwater Lake Clear Lake (Humphrey) .	5,000 5,000	Dake Simcoe	20,000
Clear Lake (Patterson)	5,000	FINGERLINGS	
Commanda Lake	10,000	FINGEREDINGS	
Crane Lake	5,000	Algoma:	
Crooked Lake Deer Lake (Lount)	$10,000 \\ 10,000$	Batchewana Bay	3,750
Deer Lake (McKenzie)	5,000	Dean Lake Desbarats Lake	$\frac{2,000}{1,000}$
Diamond Lake	5,000	Gawas Bay	1,000
Horseshoe Lake	10,000	Gordon Lake	1.000
Jackson Lake	5,000	Goulais Bay	3,750
Lake Joseph Little Long Lake	$10,000 \\ 10,000$	Harmony Bay	$\frac{3,750}{2,750}$
Manitowaba Lake	10,000	Haviland Bay Keichel Lake	$\begin{array}{c} 3,750 \\ 500 \end{array}$
Mary Jane Lake	5,000	Little Basswood Lake	1,000
Mill Lake	10,000	Otter Lake	500
Pickerel River	10,000	Pipe Lake	500
Rankins Lake	$\begin{smallmatrix}10,000\\10,000\end{smallmatrix}$	Rock Lake	$\frac{1,000}{1,500}$
Ruth Lake	10,000	Round Lake	4,000
Sequin River	10,000	Stuart Lake	1,000
Shawanaga River	10,000		
Shebeshekong Lake Shoal Lake	$\frac{5,000}{5,000}$	Brant:	
Stormy Lake	5,000	Big Creek	1,000
Toad Lake	5,000	Grand River Gravel Pit at Scotland	$\begin{smallmatrix}2,000\\800\end{smallmatrix}$
Trout Lake (Humphrey) .	5,000	Graver Fit at Scottand	800
Turtle Lake	5,000	Cochrane:	
Whitefish Lake Whitestone Lake	$\begin{smallmatrix}5,000\\10,000\end{smallmatrix}$	Sesekinika Lake	1,000
Wilson Lake	5,000	pesentitu dane	2,000
Wolf River	10,000	Frontenac:	
		Cox's Lake	500
Peterborough:		Cross Lake (Kennebec)	500
Belmont Lake	5,000	Cross Lake (Palmerston).	2,000
Deer Lake (Cavendish) Katchawanooka Lake	$\begin{smallmatrix}5,000\\15,000\end{smallmatrix}$	Crow Lake	$\begin{smallmatrix} 500 \\ 1.000 \end{smallmatrix}$
Pigeon Lake	15,000	Dog Lake Elbow Lake	1,000 $1,000$
Stony Lake	10,000	Farm Lake	500

SMALL-MOUTHED BLACK —Continued	BASS	Devine Lake	1,000 1,000
Frontenac—Continued		Clearwater Lake Gull Lake	$\frac{1,000}{1,000}$
Horseshoe Lake	500	Lake McKay	$\frac{1,000}{1,000}$
Hotel Lake	500	Lake Rosseau	1,000
Long Lake (Hinchin-			_,,,,
brooke)	500	Nipissing:	
Loughborough Lake	2,000	Bear Lake	1,000
Marble Lake	$\begin{smallmatrix} 500\\ 1.000\end{smallmatrix}$	Bruce Lake	1,000
Mississagagon Lake	500	Cache Lake	500
Salmon River	500	Deer Lake	500
Swamp Lake	500	Finlayson Lake	1,000
White Lake (Bedford)	1,000	McPhee Lake	1,000
		Muskosung Lake Nosbonsing Lake	500 500
Grey:	1 000	Talon Lake	500
Connell's Lake Francis Lake	$\substack{1,000\\1,000}$	Timagami Lake	1.000
Francis Lake	1,000	Trout Lake	2,500
Haliburton:		Turtle Lake	1,500
Beech Lake	500	Wickstead Lake	1,500
Big Boskung Lake	500	Wis-Wassie Lake	500
Davis Lake	500		
Dennies Lake	500	Oxford:	
Devils Lake Elephant Lake	$\begin{smallmatrix} 500\\ 1.000\end{smallmatrix}$	Thames River	1,000
Grass Lake	500		
Gull Lake	1.000	Parry Sound:	
Head Lake	1,000	Ahmic Lake	1,000
Kashagawigamog Lake	1,000	Bear Lake	2,000
Koshlong Lake	500	Beaver Lake (Bethune)	2,000
Long Lake (Dudley)	500	Beaver Lake (Spence)	1,000
Long Lake (Dysart) Maple Lake	$\begin{smallmatrix} 500 \\ 500 \end{smallmatrix}$	Burden Lake Crawford Lake	$\substack{1,000\\1,000}$
Mink Lake	500	Doe Lake	2,000
Misquahbenish Lake	500	Lake Cecile	1,000
North Lake	500	Lake of Many Islands	1,000
Pine Lake	500	Little Clam Lake	1,000
Pond Lilly Lake	$\begin{array}{c} 500 \\ 500 \end{array}$	Little Deer Lake	1,000
South Lake	500	Magnetawan River	1,000
West Straggle Lake	500	Mogonosh Lake	1,000
		Pickerel Lake	1,000
Halton:		Rainy Lake	$\substack{2,000\\1,000}$
Bronte River	1,000	Spring Dake	1,000
Hastings:		Peel:	
Bass Lake	500	Credit River	2,000
Moira Lake	500		
Pine Lake	500	Peterborough:	
Wadsworth Lake	500	Burleigh Falls Stream	500
Lanark:		Chemong Lake	500
McGowan's Lake	500	Clear Lake (Smith)	500
medowall's Lake	900	Clear Lake (Cavendish).	500
Lennox-Addington:		Crab Lake	500
Cedar Lake	500	Jack's Lake	500
Loon Lake	1,000	Loon Lake Lovesick Lake	$\begin{array}{c} 500 \\ 500 \end{array}$
Pringle Lake	1,000	Quarry Lake	500
Sheldrake Lake	500	White Lake	500
Varty Lake	1,000		
Middlesex:	2 0 0 0	Simcoe:	1 000
Thames River	2,000	Lake Couchiching Lake Simcoe	$\frac{1,000}{1,000}$
Muskoka:		Nottawasaga Lake	1,000
Bass Lake	1,000	Severn River	1,000

SMALL-MOUTHED BLACK —Continued	BASS	Renfrew:	
—Continued		Black Bay	190
Sudbury:		Blackfish Bay Bonnechere River	100
Badger Lake	1.000	Bourgneau, or Snake Lake	$\begin{array}{c} 100 \\ 102 \end{array}$
Bass Lake	1,000	Coldingham, or Green Lake	110
Frood Lake	1,000	Colton Lake	108
Lacloche Lake	1,000	Corry Lake	95
Lake Agnew	1,000	Devils Lake	100
Metagamasi Lake	1,000	Foster Lake	25
Ratter Lake	$\begin{smallmatrix} 500 \\ 2,000 \end{smallmatrix}$	Genrick's Lake	100
Trout Lake (Cherriman).	1,000	Hurd's Lake	100 85
Trout Bake (Onerriman):	1,000	Jack's Lake	90
Timiskaming:		Jamieson Lake	100
Lake Timagami	1.000	Kaminiskeg Lake	100
		Lake Johnnie	96
Victoria:		Long Lake	100
Cranberry Lake	500	Maskalonge Lake	96
Hurricane Lake	500	McMaster Lake Moccasin Lake	$\begin{array}{c} -100 \\ 100 \end{array}$
Waterloo:		Muskrat River	204
Conestoga River	2,000	Nakiks Lake (Madawaska	204
Grand River	1,000	River)	100
Paradise Lake	1.000	Norway Lake	100
14144120 24110 11111111	2,000	Olmstead Lake	100
Wellington:		Round Lake and	
Puslinch Lake	1,000	Stoney Lake	90
		White Lake (McNab)	100
York:		White Lake (Raglan) Whitefish Lake	$\begin{array}{c} 100 \\ 100 \end{array}$
Grenadier Pond	100	wintensii Hake	100
YEARLINGS and ADUL	TS	Thunder Bay:	
		Cloud Lake	110
Haldimand:		Fox Lake	$\begin{array}{c} 200 \\ 145 \end{array}$
Grand River	100	Kashabowie Lake	100
Halton:		Lac Des Mille Lacs	100
	F 0	Loon Lake	110
Crawford's Lake	50	McKay Lake	175
Hastings:		O'Brein_Lake	180
Bennett Lake	85	Poulin Treble Lakes	110
20111010 20110 1111111111	00	Shebandowan Lake Silver Lake	150
Kenora:		Silver Lake	115
Basket Lake	81	York:	
Birch Lake	82	Grenadier Pond	28
Black Sturgeon Lake	80	Gronder Tond	20
Dogtooth Lake Lawrenson's Lake	81	MASKINONGE	
Long Lake	$\begin{smallmatrix}40\\74\end{smallmatrix}$	TIDI	
Longbow Lake	147	$\operatorname{FRY}$	
Round Lake	40	Hastings:	
		Crow Lake	20,000
Kent:		Crow River	10,000
Rondeau Bay	89	Moira Lake	10,000
36:331		Moira River	5,000
Middlesex:		Sears Lake	5,000
Thames River	230	Stoco Lake	10,000
Norfolk:		Whitestone Lake	10,000
Waterford Pond	100	Leeds:	
wateriord roud	100	Rideau River	10,000
Oxford:		St. Lawrence River	20.000
Cedar Creek	100	Zoni zonio zeri oz . , , , ,	20,000
	200	Northumberland:	
Peterborough:		Cassidy's Bay	10,000
Stony Lake	100	Crow Bay	10,000

MASKINONGE	Continued	Carleton:	
MASKINONGE	Continuou		0.000
Northumberland-Co	ntinued		0,000
Crow River			0,000
Rice Lake		Cochrane:	
Trent River		Bigwater Lake 20	0,000
	•		0,000
Peterborough:		Reid Lake 25	0,000
Belmont Lake	10,000		0,000
Buckhorn Lake		Unnamed lake—Fauquier	
Chemong Lake	15,000	Tp 20	0,000
Deer Bay		Wilson Lake 25	0,000
Deer Lake	10,000	Frontenac:	
Katchawanooka La			0.000
Lovesick Lake			0.000
Otonabee River	10,000		0,000
Pigeon Lake	30,000		0,000
Round Lake		Cross Lake (Palmerston). 70	0.000
Stony Lake			0,000
Trent River	10,000		0,000
			0,000
Prince Edward:			0,000
Bay of Quinte	5,000		0,000
Muscote Bay			0,000
			0.000
Stormont:			0,000
St. Lawrence River	r 10,000		0.000
Bt. Lawrence Tive	1 10,000	Long Lake (Hinchin-	0,000
Victoria:			0,000
Balsam Lake	10,000		0.000
Burnt River			0,000
Mill Pond	10,000		0,000
Sturgeon Lake	15,000	Rock Lake 50	0.000
Builgeon Bake	10,000		0,000
PERO	CH		0,000
		Sydenham Lake 25	0,000
PERO FR		Sydenham Lake 25	
	Y	Sydenham Lake 25	0,000
FRY Lake Erie	Y 9,150,000	Sydenham Lake 25 Thompson Lake 10	0,000
FR	Y 9,150,000	Sydenham Lake	0,000
FRY Lake Erie	Y 9,150,000 EL (Pike-perch)	Sydenham Lake	0,000
Lake Erie YELLOW PICKER FR	Y 9,150,000 EL (Pike-perch)	Sydenham Lake	0,000 0,000 0,000
Lake Erie  YELLOW PICKER FRY Algoma:	Y 9,150,000  EL (Pike-perch)  Y	Sydenham Lake	0,000
Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake .	Y 9,150,000  EL (Pike-perch)  Y 150,000	Sydenham Lake	0,000 0,000 0,000 0,000 0,000
Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake	Y 9,150,000  EL (Pike-perch)  Y 150,000 150,000	Sydenham Lake 25 Thompson Lake 10  Grenville: Rideau River 1,50  Grey: Mountain Lake 25 Nottawasaga River 50	0,000 0,000 0,000 0,000 0,000
Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake Duborne Lake	Y 9,150,000  EL (Pike-perch) Y 150,000	Sydenham Lake 25 Thompson Lake 10  Grenville: Rideau River 1,50  Grey: Mountain Lake 25 Nottawasaga River 50  Haldimand: Grand River 2,00	0,000 0,000 0,000 0,000 0,000
Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake Duborne Lake Echo Lake	Y 9,150,000  EL (Pike-perch) Y 150,000 150,000 150,000 418,400	Sydenham Lake 25 Thompson Lake 10  Grenville: Rideau River 1,50  Grey: Mountain Lake 25 Nottawasaga River 50  Haldimand: Grand River 2,00  Haliburton:	0,000 0,000 0,000 0,000 0,000 0,000
TRY Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake Duborne Lake Echo Lake Gordon Lake	Y 9,150,000  EL (Pike-perch) Y 150,000 150,000 150,000 418,400 200,000	Sydenham Lake 25 Thompson Lake 10  Grenville: Rideau River 1,50  Grey: Mountain Lake 25 Nottawasaga River 50  Haldimand: Grand River 2,00	0,000 0,000 0,000 0,000 0,000 0,000
Lake Erie	Y 9,150,000  EL (Pike-perch) Y 150,000 150,000 150,000 418,400 200,000 400,000	Sydenham Lake 25 Thompson Lake 10  Grenville: Rideau River 1,50  Grey: Mountain Lake 25 Nottawasaga River 50  Haldimand: Grand River 2,00  Haliburton: Paudash Lake 1,20	0,000 0,000 0,000 0,000 0,000 0,000
TRY Lake Erie	Y 9,150,000  EL (Pike-perch) Y 150,000 150,000 150,000 418,400 200,000 400,000 150,000	Sydenham Lake 25 Thompson Lake 10  Grenville: Rideau River 1,50  Grey: Mountain Lake 25 Nottawasaga River 50  Haldimand: Grand River 2,00  Haliburton: Paudash Lake 1,20  Hastings:	0,000 0,000 0,000 0,000 0,000 0,000
TRY Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake Duborne Lake Echo Lake Gordon Lake Keichel Lake Marion Lake Mud Lake	Y 9,150,000  EL (Pike-perch) Y 150,000 150,000 418,400 200,000 400,000 150,000	Sydenham Lake         25           Thompson Lake         10           Grenville:         Rideau River         1,50           Grey:         Mountain Lake         25           Nottawasaga River         50           Haldimand:         Grand River         2,00           Haliburton:         Paudash Lake         1,20           Hastings:         Moira Lake         50	0,000 0,000 0,000 0,000 0,000 0,000
TRY Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake Duborne Lake Echo Lake Gordon Lake Keichel Lake Marion Lake Mud Lake Otter Lake	Y 9,150,000  EL (Pike-perch) Y 150,000 150,000 150,000 418,400 200,000 400,000 150,000 150,000 150,000	Sydenham Lake         25           Thompson Lake         10           Grenville:         Rideau River         1,50           Grey:         Mountain Lake         25           Nottawasaga River         50           Haldimand:         Grand River         2,00           Haliburton:         Paudash Lake         1,20           Hastings:         Moira Lake         50           Moira River         75	0,000 0,000 0,000 0,000 0,000 0,000 0,000
TRY Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake Duborne Lake Echo Lake Gordon Lake Keichel Lake Marion Lake Mud Lake Otter Lake Pipe Lake	Y9,150,000  EL (Pike-perch) Y150,000150,000150,000418,400200,000400,000150,000150,000150,000150,000	Sydenham Lake         25           Thompson Lake         10           Grenville:         Rideau River         1,50           Grey:         Mountain Lake         25           Nottawasaga River         50           Haldimand:         30           Grand River         2,00           Haliburton:         Paudash Lake         1,20           Hastings:         Moira Lake         50           Moira River         75         Sears Lake         10	0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000
TRY Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake Duborne Lake Echo Lake Gordon Lake Keichel Lake Marion Lake Mud Lake Otter Lake Pipe Lake Randolph Lake	Y 9,150,000  EL (Pike-perch) Y 150,000 150,000 150,000 418,400 200,000 400,000 150,000 150,000 150,000 150,000	Sydenham Lake         25           Thompson Lake         10           Grenville:         Rideau River         1,50           Grey:         Mountain Lake         25           Nottawasaga River         50           Haldimand:         Grand River         2,00           Haliburton:         Paudash Lake         1,20           Hastings:         Moira Lake         50           Moira River         75           Sears Lake         10	0,000 0,000 0,000 0,000 0,000 0,000 0,000
TRY Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake Duborne Lake Echo Lake Gordon Lake Keichel Lake Marion Lake Mud Lake Otter Lake Pipe Lake Randolph Lake Rock Lake	Y 9,150,000  EL (Pike-perch) Y 150,000 150,000 150,000 418,400 200,000 400,000 150,000 150,000 150,000 150,000 150,000 150,000 150,000 100,000	Sydenham Lake         25           Thompson Lake         10           Grenville:         Rideau River         1,50           Grey:         Mountain Lake         25           Nottawasaga River         50           Haldimand:         30           Grand River         2,00           Haliburton:         Paudash Lake         1,20           Hastings:         Moira Lake         50           Moira River         75         Sears Lake         10	0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000
TRY Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake Duborne Lake Echo Lake Gordon Lake Keichel Lake Marion Lake Otter Lake Otter Lake Pipe Lake Randolph Lake Rock Lake Rock Lake	Y 9,150,000  EL (Pike-perch) Y 150,000 150,000 150,000 418,400 200,000 400,000 150,000 150,000 150,000 150,000 150,000 200,000	Sydenham Lake         25           Thompson Lake         10           Grenville:         Rideau River         1,50           Grey:         Mountain Lake         25           Nottawasaga River         50           Haldimand:         Grand River         2,00           Haliburton:         Paudash Lake         1,20           Hastings:         Moira Lake         50           Moira River         75         Sears Lake         10           Stoco Lake         25	0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000
TRY Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake Duborne Lake Echo Lake Gordon Lake Keichel Lake Marion Lake Mud Lake Otter Lake Pipe Lake Randolph Lake Rock Lake	Y 9,150,000  EL (Pike-perch) Y 150,000 150,000 150,000 418,400 200,000 400,000 150,000 150,000 150,000 150,000 150,000 200,000	Sydenham Lake         25           Thompson Lake         10           Grenville:         Rideau River         1,50           Grey:         Mountain Lake         25           Nottawasaga River         50           Haldimand:         Grand River         2,00           Haliburton:         Paudash Lake         1,20           Hastings:         Moira Lake         50           Moira River         75         Sears Lake         10           Stoco Lake         25           Kenora:         Black Sturgeon Lake         1,00           Eagle Lake         3,00	0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000
TRY Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake Duborne Lake Echo Lake Gordon Lake Keichel Lake Marion Lake Otter Lake Pipe Lake Randolph Lake Randolph Lake Round Lake St. Mary River	Y 9,150,000  EL (Pike-perch) Y 150,000 150,000 150,000 418,400 200,000 400,000 150,000 150,000 150,000 150,000 150,000 200,000	Sydenham Lake         25           Thompson Lake         10           Grenville:         Rideau River         1,50           Grey:         Mountain Lake         25           Nottawasaga River         50           Haldimand:         2,00           Grand River         2,00           Haliburton:         Paudash Lake         1,20           Hastings:         Moira Lake         50           Moira River         75         Sears Lake         10           Stoco Lake         25           Kenora:         Black Sturgeon Lake         1,00           Eagle Lake         3,00           Lake of the Woods         42,98	0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000
TRY Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake Duborne Lake Gordon Lake Keichel Lake Marion Lake Mud Lake Otter Lake Pipe Lake Randolph Lake Rock Lake Round Lake St. Mary River  Bruce:	Y 9,150,000  EL (Pike-perch) Y 150,000 150,000 150,000 418,400 200,000 150,000 150,000 150,000 150,000 100,000 200,000 100,000 200,000	Sydenham Lake         25           Thompson Lake         10           Grenville:         Rideau River         1,50           Grey:         Mountain Lake         25           Nottawasaga River         50           Haldimand:         2,00           Grand River         2,00           Haliburton:         Paudash Lake         1,20           Hastings:         Moira Lake         50           Moira River         75         Sears Lake         10           Stoco Lake         25           Kenora:         Black Sturgeon Lake         1,00           Eagle Lake         3,00           Lake of the Woods         42,98           Log Bay         1,75	0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000
TRY Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake Duborne Lake Echo Lake Gordon Lake Marion Lake Mud Lake Pipe Lake Randolph Lake Rock Lake Rock Lake Round Lake St. Mary River  Bruce: Berry's Lake	Y 9,150,000  EL (Pike-perch) Y 150,000 150,000 150,000 418,400 200,000 400,000 150,000 150,000 150,000 150,000 150,000 100,000 200,000 100,000 100,000	Sydenham Lake         25           Thompson Lake         10           Grenville:         Rideau River         1,50           Grey:         Mountain Lake         25           Nottawasaga River         50           Haldimand:         Grand River         2,00           Haliburton:         Paudash Lake         1,20           Hastings:         Moira Lake         50           Moira River         75         Sears Lake         10           Stoco Lake         25           Kenora:         Black Sturgeon Lake         1,00           Eagle Lake         3,00           Lake of the Woods         42,98           Log Bay         1,75           Marchington Lake         1,00	0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000
TRY Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake Duborne Lake Echo Lake Gordon Lake Keichel Lake Marion Lake Otter Lake Pipe Lake Randolph Lake Randolph Lake Rock Lake Round Lake St. Mary River  Bruce: Berry's Lake Chesley Lake	Y9,150,000 EL (Pike-perch) Y150,000150,000150,000418,400200,000400,000150,000150,000150,000150,000100,000100,000100,000100,000100,000100,000100,000	Sydenham Lake         25           Thompson Lake         10           Grenville:         Rideau River         1,50           Grey:         Mountain Lake         25           Nottawasaga River         50           Haldimand:         2,00           Grand River         2,00           Haliburton:         Paudash Lake         1,20           Hastings:         Moira Lake         50           Moira River         75         Sears Lake         10           Stoco Lake         25           Kenora:         Black Sturgeon Lake         1,00           Eagle Lake         3,00           Lake of the Woods         42,98           Log Bay         1,75           Marchington Lake         1,00           Matheson Bay         4,80	0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000
TRY Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake Duborne Lake Echo Lake Gordon Lake Keichel Lake Marion Lake Mud Lake Otter Lake Pipe Lake Randolph Lake Rock Lake St. Mary River  Bruce: Berry's Lake Chesley Lake Gauley's Bay	Y9,150,000 EL (Pike-perch) Y150,000150,000150,000418,400200,000400,000150,000150,000150,000150,000150,000150,000100,000100,000100,000100,000100,000100,000100,000100,000100,000100,000100,000100,000100,000100,000	Sydenham Lake         25           Thompson Lake         10           Grenville:         Rideau River         1,50           Grey:         Mountain Lake         25           Nottawasaga River         50           Haldimand:         Grand River         2,00           Haliburton:         Paudash Lake         1,20           Hastings:         Moira Lake         50           Moira River         75         Sears Lake         10           Stoco Lake         25           Kenora:         Black Sturgeon Lake         1,00           Eagle Lake         3,00           Lake of the Woods         42,98           Log Bay         1,75           Marchington Lake         1,00           Matheson Bay         4,80           Stanzikihimi Lake         1,00	0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000
TRY Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake Duborne Lake Echo Lake Gordon Lake Keichel Lake Marion Lake Mud Lake Otter Lake Pipe Lake Pipe Lake Round Lake Round Lake Round Lake St. Mary River  Bruce: Berry's Lake Chesley Lake Gauley's Bay Isaac Lake	Y 9,150,000  EL (Pike-perch) Y 150,000 150,000 150,000 418,400 200,000 150,000 150,000 150,000 100,000 200,000 100,000 100,000 100,000 100,000 100,000 250,000	Sydenham Lake         25           Thompson Lake         10           Grenville:         Rideau River         1,50           Grey:         Mountain Lake         25           Nottawasaga River         50           Haldimand:         Grand River         2,00           Haliburton:         Paudash Lake         1,20           Hastings:         Moira Lake         50           Moira River         75         Sears Lake         10           Stoco Lake         25           Kenora:         Black Sturgeon Lake         1,00           Eagle Lake         3,00           Lake of the Woods         42,98           Log Bay         1,75           Marchington Lake         1,00           Matheson Bay         4,80           Stanzikihimi Lake         1,00           Wabigoon Lake         1,00	0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000
TRY Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake Desbarats Lake Cordon Lake Echo Lake Marion Lake Marion Lake Mud Lake Pipe Lake Randolph Lake Rock Lake Round Lake St. Mary River  Bruce: Berry's Lake Chesley Lake Gauley's Bay Isaac Lake Miller Lake Miller Lake Miller Lake Miller Lake	Y 9,150,000  EL (Pike-perch) Y 150,000 150,000 150,000 418,400 200,000 400,000 150,000 150,000 150,000 150,000 100,000 200,000 100,000 100,000 100,000 100,000 250,000 250,000 250,000	Sydenham Lake         25           Thompson Lake         10           Grenville:         Rideau River         1,50           Grey:         Mountain Lake         25           Nottawasaga River         50           Haldimand:         Grand River         2,00           Haliburton:         Paudash Lake         1,20           Hastings:         Moira Lake         50           Moira River         75         Sears Lake         10           Stoco Lake         25           Kenora:         Black Sturgeon Lake         1,00           Eagle Lake         3,00           Lake of the Woods         42,98           Log Bay         1,75           Marchington Lake         1,00           Matheson Bay         4,80           Stanzikihimi Lake         1,00           Wabigoon Lake         1,00	0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000
TRY Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake Duborne Lake Echo Lake Gordon Lake Keichel Lake Marion Lake Mud Lake Otter Lake Pipe Lake Randolph Lake Rock Lake Round Lake St. Mary River  Bruce: Berry's Lake Chesley Lake Gauley's Bay Isaac Lake Miller Lake Sauble River	Y9,150,000 EL (Pike-perch) Y150,000150,000150,000150,000150,000150,000150,000150,000150,000100,000	Sydenham Lake         25           Thompson Lake         10           Grenville:         Rideau River         1,50           Grey:         Mountain Lake         25           Nottawasaga River         50           Haldimand:         2,00           Grand River         2,00           Haliburton:         Paudash Lake         1,20           Hastings:         Moira Lake         50           Moira River         75         Sears Lake         10           Stoco Lake         25           Kenora:         Black Sturgeon Lake         1,00           Eagle Lake         3,00           Lake of the Woods         42,98           Log Bay         1,75           Marchington Lake         1,00           Matheson Bay         4,80           Stanzikihimi Lake         1,00           Wabigoon Lake         1,00           Willard Lake         84	0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000
TRY Lake Erie  YELLOW PICKER FRY  Algoma: Cummings Lake Desbarats Lake Desbarats Lake Cordon Lake Echo Lake Marion Lake Marion Lake Mud Lake Pipe Lake Randolph Lake Rock Lake Round Lake St. Mary River  Bruce: Berry's Lake Chesley Lake Gauley's Bay Isaac Lake Miller Lake Miller Lake Miller Lake Miller Lake	Y9,150,000 EL (Pike-perch) Y150,000150,000150,000150,000418,400200,000150,000150,000150,000150,000150,000150,000100,000100,000100,000100,000100,000100,000100,000100,000100,000100,000100,000100,000100,000100,000100,000250,000250,000250,000250,000250,0002550,000	Sydenham Lake         25           Thompson Lake         10           Grenville:         Rideau River         1,50           Grey:         Mountain Lake         25           Nottawasaga River         50           Haldimand:         Grand River         2,00           Haliburton:         Paudash Lake         1,20           Hastings:         Moira Lake         50           Moira River         75         Sears Lake         10           Stoco Lake         25           Kenora:         Black Sturgeon Lake         1,00           Eagle Lake         3,00           Lake of the Woods         42,98           Log Bay         1,75           Marchington Lake         1,00           Matheson Bay         4,80           Stanzikihimi Lake         1,00           Wabigoon Lake         1,00           Willard Lake         84           Kent:         84	0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000

YELLOW PICKEREL (Pike-Perch)	Norfolk:
—Continued	Waterford, or Nanticoke Creek 250,000
Lanark:	Creek 200,000
Black Lake 200,000	Northumberland:
Christies Lake 200,000	Rice Lake
Clear Lake	Trent River 3,250,000
Fagan's Lake 100,000 Mississippi Lake 400,000	Ontario:
Otty Lake 200,000	Lake St. John 250,000
Leeds:	Oxford:
Big Rideau Lake 700,000	Lakeside Lake 500,000
Higley Lake	Parry Sound:
Little Rideau Lake 150,000	Ahmic Lake 500,000
Sand Lake 700,000	Bass Lake
St. Lawrence River 1,000,000	Blackstone Lake 100,000 Burden Lake 500,000
Lennox-Addington:	Clear Lake 250,000
Long Lake 400,000	Commanda Lake 200,000 Crane Lake 200,000
Napanee River 2,000,000	Crane Lake         200,000           Crawford Lake         100,000
South Beaver Lake 400,000 White Lake 400,000	Crooked Lake 250,000
White Lake 100,000	Deer Lake
Manitoulin:	French River 1,000,000
Fraser Bay 2,000,000	Horseshoe Lake 150,000
Lake Helen	Isabella Lake         200,000           Jack's Lake         50,000
MacGregor Bay, &	Lake Joseph 300,000
Bay Finn 4,000,000	Lake Rosseau
Muskoka:	Long Lake 250,000
Allen's Lake 100,000	Magnetawan River 500,000
Bala Bay 500,000	Manitowaba Lake 150,000 McKeown Lake 100,000
Bass Lake	Mill Lake 150,000
Buck Lake 200,000	Otter Lake
Kahshe Lake	Pickerel River 150,000
Muskoka River 500,000	Restoule Lake 200,000
Musquash River 500,000	Sequin River         250,000           Shawanaga Lake         250,000
Six Mile Lake	Shebeshekong Lake 150,000
Three Mile Lake 500,000	Shoal Lake
	Stormy Lake 200,000
Nipissing:	Whitestone Lake 250,000
Bruce Lake	Wolf River 250,000
Herridge Lake 100,000	Peterborough:
Jumping Caribou Lake 250,000 Lake Chebogamog 100,000	Little Lake 250,000
Lake Nosbonsing 250,000	Otonabee River 1,200,000 Rice Lake 1.200.000
Lake Temagami 500,000	Trent River 600,000
Marion Lake	Data as Edmands
McPhee Lake 100,000	Prince Edward: Bay of Quinte 5,200,000
Olive Lake 100,000	Consecon Lake 600,000
Red Cedar Lake         250,000           Talon Lake         250,000	East Lake
Tilden Lake	West Lake 500,000
Tomiko Lake 250,000	Rainy River:
Wickstead Lake 250,000 Wilson Lake 100,000	Beaverhouse Lake 2,000,000 Clearwater Lake 2,000,000
Wis-Wassie Lake 250,000	Off Lake 1,000,000
• • • • • • • • • • • • • • • • • • • •	•

YELLOW PICKEREL (Pike-Perch)	BLUE PICKEREL	
—Continued	$\mathbf{FRY}$	
Rainy River—Continued One Sided Lake 1,000,000	Essex: Lake Erie	1,000,000
Quill Lake	BROWN TROUT	
Windigoostigwam Lake 1,000,000	YEARLINGS	
Russell:	Brant:	
Castor River 1,000,000 Simcoe:	Branch Creek	$1,000 \\ 1,000$
Gloucester Pool 1,250,000	Bruce:	
Little Lake	Crane River	$\frac{1,200}{2,300}$
Stormont:	Sucker Creek	$1,000 \\ 1,500$
Nation River 500,000 St. Lawrence River 2,400,000		1,500
	Carleton: Mississippi River	3,000
Sudbury: Birch Lake 150,000	Rideau River	1,200
Charlton Lake	Durham:	
Frood Lake 250,000	Baldwin Creek	1,200
Ivanhoe Lake         250,000           Lacloche Lake         300,000	Baxter Creek	$\frac{1,500}{2,400}$
Lake Penage 3,000,000		-,200
Mattagamasi Lake 200,000 McLaren Lake 300,000	Elgin: Big Creek	2,200
Ramsay Lake	Little Otter	4,000
Whitefish Falls Bay & River 5,000,000	Frontenac:	
Wolseley Bay 500,000 Unnamed Lake 200,000	Clyde River	1,500
	Grey:	
Thunder Bay: Baril Lake	Big Head River  Maxwell's Creek	$\frac{3,000}{1,200}$
Cordingley Lake 500,000	Potawatami River	1,000
Lake of Flats 200,000  Lake Shebandowan 2,000,000	Saugeen River	$\frac{8,000}{3,000}$
Savant Lake 1,000,000	Sydenham River	3,900
Thunder Bay 1,500,000	Weatherspoon Creek	500
Timiskaming:	Haldimand:	
Granite Lake	Rogers Creek	1,000
Lake Timagami 500,000 Lake Timiskaming 500,000	Halton:	
Net Lake	Bronte River	2,200
Rib Lake       200,000         Sesekinika Lake       500,000	Hastings:	
Twin Lake 250,000	Beaver Creek	$\frac{1,000}{1,200}$
Victoria:	Little Mississippi River	1,200
Lake Dalrymple         500,000           Young's Lake         250,000	Rawdon Creek	2,000
Great Lakes:	Huron:	4 400
Lake Superior 1,000,000	Nine Mile River	1,100
North Channel	Lanark:	0.000
Lake Ontario 750,000	Mississippi River	3,000
*Eyed eggs supplied, and planted as fry from Sparrow Lake hatchery.	Middlesex: Medway Creek	1,200

BROWN TROUT—Contin	ued	Sharbot Lake	25,000 10,000
Muskoka:		Wolf Edition	10,000
Indian River	$\begin{smallmatrix}1,200\\800\end{smallmatrix}$	Hastings: Baptiste Lake	35,000
Norfolk:		Bass Lake	10,000
Big Creek	1,000	Big Salmon Lake	25,000
Nanticoke Creek	1,500	Cedar Lake  Devil Lake  Dickey Lake	$10,000 \\ 10,000 \\ 20,000$
Northumberland:		Eagle Lake	10,000
Bowens Pond	$\begin{smallmatrix}1,200\\4,600\end{smallmatrix}$	Gunter Lake Jamieson Lake	$10,000 \\ 10,000$
Oxford:		Johns Lake Lake Papineau	$10,000 \\ 25,000$
Horner's Creek	600	Lake St. Peter	25,000
Whiteman Creek	1.500	L'Amable Lake	10,000
	,,,,,,	Little Bass Lake	10,000
Perth:		Little Salmon Lake	10,000
Halfway Stream	1,100	Little Weslemkoon Lake . Long Lake (Mayo)	$10,000 \\ 10,000$
Upper Avon River	1,100	Long Lake (Dungannon)	10,000
Peterborough:		Quinlan Lake	10,000
Deer Bay Creek	3,000	Wadsworth Lake	10,000
Dickson's Creek	1,500	Weslemkoon Lake	15,000
Eel's Creek	1,000	_	
Lower Cavan Creek	600	Lanark:	
Mississauga River Nogies Creek	$\substack{1,500\\1,500}$	Silver Lake	15,000
Simcoe:		Leeds:	
Nottawasaga River and		Big Rideau Lake	50,000
tributaries	6,874	Charleston Lake	60,000
XX 1 3		Clear Lake	10,000
Waterloo:	200	Indian Lake	$10,000 \\ 15,000$
Alderside Pond Bridgeport Dam	$\begin{array}{c} 600 \\ 500 \end{array}$	ited Horse Bake	10,000
Dentinger Creek	1.000	Lennox-Addington:	
	2,000		10.000
Wellington:		Bark Lake	$10,000 \\ 20,000$
Gerrie Creek	600	Burns Lake	10,000
Speed River	1,200	Finch Lake	10,000
York:		Little Cedar Lake	10,000
Humber River	3,000	Loon Lake	$\frac{30,000}{5,000}$
Private waters (Sale)	510	Otter Lake	20,000
(,		Spring Lake	10,000
LAKE TROUT			
FRY		Peterborough:	
		Catchacoma Lake	10,000
Frontenac:	00000	Gull Lake	$\frac{10,000}{25,000}$
Buckshot Lake	20,000	Long Lake	10,000
Crotch Lake	$\begin{smallmatrix}25,000\\25,000\end{smallmatrix}$	Loon Lake	20,000
Desert Lake	15,000	Sandy Lake	10,000
Dog Lake	20,000	Towens Lake	5,000
Grindstone Lake	10,000	Trout Lake	10,000
Knowlton Lake Long Lake	$10,000 \\ 15,000$	West Lake	5,000
Loughborough Lake	45,000	Court I alass	
Mackie Lake	10,000	Great Lakes:	
Mississagagon Lake	15,000	Lake Superior 1	550,000
Reid's Lake	$\substack{10,000\\5,000}$	North Channel	
Schooner Lake	15,000	Lake Ontario	

LAKE TROUT—Continue	ed	Hollow Lake	10,000
FINGERLINGS		Hurricane Lake	5,000 $5,000$
Algoma:		Kashagawigamog Lake	5,000
Achigan Lake	6,000	Kingscote Lake Kushog Lake	$\begin{smallmatrix}5,000\\10,000\end{smallmatrix}$
Axe Lake	11,000	Little Boskung Lake	5.000
Basswood Lake	6,000	Long Lake	5,000
Chiblow Lake	6,000	Maple Lake	5,000
Clear Lake	$\frac{18,000}{6,000}$	Moose Lake	5,000
Constin, or Trout Lake	6,000	Mountain Lake	5,000
Duborne Lake	6,000	Oblong Lake	5,000
Grey Trout Lake	6,000	Pine Lake	5,000
Havilah Lake	6,000	Redstone Lake	$\substack{10,000\\5,000}$
Hawk Lake	5,750	South Bay	5,000
Hobon Lake	5,750	Stormy Lake	5,000
Huston Lake	10,750	Twelve Mile Lake	5,000
Island Lake	$6,000 \\ 6,000$		
Loon Lake (Deroche)	6,000	Hastings:	
Loon Lake (Borden)	6,000	Clear Lake	5,000
Matinenda Lake	6,000	Lake of Islands	5,000
Mud Lake	6,000	LaValley Lake	5,000
Patton Lake	6,000	Long Lake (Lutterworth) Papineau Lake	$5,000 \\ 5,000$
Petanguin Lake	6,000	Robinson Lake	5,000
Pickerel Lake Rainbow Lake	$6,000 \\ 6,000$	Trout Lake (Faraday)	5,000
Rand Lake	6.000	( - 11 - 11 - 11 - 11 - 11 - 11 - 11 -	-,
Raw Hide Lake	6,000	Kenora:	
Red Deer Lake	6,000	Bigstone Bay	40,000
Sand Lake	6,000	Blue Lake	25,000
Stuart Lake	6,000	Boulder Dam	50,000
Tookenay Lake	6,000	Clearwater Bay	90,000
Trout Lake (Aweres) Trout Lake (24-12)	6,000	Cul de Sac Lake Dogtooth Lake	$25,000 \\ 50,000$
Upper Island Lake	$6,000 \\ 6,000$	Eagle Lake	100,000
opper Island Lake	0,000	Gibbi Lake	50,000
Bruce:		Granite Lake	25,000
Dyer Bay	15,000	Lake of the Woods	72,000
Gillies Lake	15,000	Little Vermilion Lake	50,000
	•	Rice Lake	10,000
Cochrane:		Silver Lake	$25,000 \\ 25,000$
Nellie Lake	6,000	Trout Lake	25,000
Perry Lake	6,000	Whitefish Bay	90,000
Watabeag Lake	6,000	Willard Lake	35,000
Frontenac:		Lanark:	
Crotch Lake	5,000	Rideau Lake	9 000
Desert Lake	5,000	Rideau Lake	2,000
Dog Lake	5,000	Lennox-Addington:	
Eagle Lake	5,000	Thirty Island Lake	5,000
Loughborough Lake	5,000	White Lake	2,000
Lucky Lake	$\substack{10,000\\5,000}$	White Zane Williams	2,000
Sharbot Lake	5,000	Manitoulin:	
Haliburton:		Fraser Bay	25,000
Bear Lake (Guilford)	5,000	Lake Manitou	33,000
Bear Lake (Glamorgan) .	5,000	Markaka	
Big Boskung Lake	10,000	Muskoka:	
Davis Lake	5,000	Bala Bay	15,000
Deer Lake	5,000	Bella Lake	5,000
Drag Lake Eagle Lake	$10,000 \\ 10,000$	Clear Lake	$\begin{array}{c} 5,000 \\ 5,000 \end{array}$
East Lake	5,000	Lake of Bays &	5,000
Gull Lake	10,000	tributaries	28,000
Haliburton Lake	10,000	Long Lake	5,000
Hawke Lake	5,000	Muskoka Lake	15,000

LAKE TROUT—Continu	ied	Ramsay Lake	6,000
Muskoka—Continued		Trout Lake	$\frac{6,000}{6.000}$
Oxtongue Lake	5,000	Windy Lake	6.000
Peninsula Lake &	0,000		,,,,,,
tributaries	15,000	Thunder Bay:	<b>FO 000</b>
Rebecca Lake Rosseau Lake	$\begin{smallmatrix}5,000\\27,000\end{smallmatrix}$	Baril Bay	$50,000 \\ 50,000$
Skeleton Lake	10.000	Jarvis Bay	50,000
Trout Lake (Watt)	5,000	Lac Des Mille Lacs	50,000
Vernon Lake	15,000	Lake Nipigon	50,000
Waseosa Lake	5,000	McKenzie Lake Surprise Lake	$50,000 \\ 10,000$
Nipissing:		Twin Lakes	50,000
Aylen Lake	5,000	Wawon Lake	25,000
Martin Lake	6,000	Timiskaming:	
Source Lake	$\begin{smallmatrix}6,000\\10,000\end{smallmatrix}$	Bartle Lake	6,000
Trout Lake	6,000	Lake Timagami	6,000
		Lake Timiskaming	6,000
Parry Sound:	10.000	Net Lake	$6,000 \\ 6,000$
Bay Lake	$\substack{10,000\\5.000}$	Trout Lake	6,000
Bernard Lake	10,000	Twin Lake	6,000
Big Clam Lake	5,000	· ·	
Clear Lake (Humphrey).	$\begin{matrix} 7,500 \\ \textbf{10,000} \end{matrix}$	York:	40.000
Clear Lake (Perry)  Five Mile Bay	2,000	Lake Simcoe	40,000
Horn Lake	15,000	Great Lakes:	
Lake Joseph	5,000	Lake Superior 3	,675,000
Lorimer Lake	$15,000 \\ 10,000$	North Channel	250,000
Otter Lake	10,000	Georgian Bay	,933,000
Portage Lake	5,000	Lake Ontario	50.000
Round Lake Salmon Lake	$\begin{smallmatrix}5,000\\10,000\end{smallmatrix}$		,
Sand Lake	10,000	EYED EGGS	
Spring Lake	10,000	Exchange 3	,225,000
Sucker Lake	5,000		
Sugar Lake	$\substack{10,000\\5,000}$	ATLANTIC SALMON	
Three Legged Lake	10,000	$\mathbf{FRY}$	
Whitefish Lake	7,500	For demonstration purposes	7,200
Renfrew:		KAMLOOPS TROUT	
Bark Lake	6,000		
Blackfish Bay Bradley Lake	$\begin{smallmatrix}5,000\\10,000\end{smallmatrix}$	FINGERLINGS	
Carson Lake	6,000	Bruce:	
Clear Lake	5,000	Gillies Lake	20,000
Cross Lake Diamond Lake	$\frac{6,000}{5,000}$	Grey:	
Kaminiskeg Lake	5,000	Bass Lake	20,000
Long Lake	5,000	Dass Lanc	20,000
Pog Lake	6,000	Muskoka:	
Round Lake	$\substack{6,000\\6,000}$	Echo Lake	20,000
Wadsworth Lake	6,000	Waseosa Lake	20,000
Simcoe:		RAINBOW TROUT	
Kempenfeldt Bay			
•	20,000	FINGERLINGS	
	20,000		
Sudbury:		FINGERLINGS Algoma: Clear Lake	5,000
Sudbury: Ella Lake Long Lake (Broder)	6,000 6,000	Algoma: Clear Lake Garden River	5,000
Sudbury: Ella Lake Long Lake (Broder) Long Lake (Harrow)	6,000 6,000 6,000	Algoma: Clear Lake Garden River Mississagi River	5,000 5,000
Sudbury: Ella Lake Long Lake (Broder)	6,000 6,000	Algoma: Clear Lake Garden River	5,000

RAINBOW TROUT—Contin	nued	Root River	2,400 1,000
Bruce: Sauble River	10,000	Speckled Trout Lake (176) Speckled Trout Creek Trout Lake (Aweres)	$1,000 \\ 600 \\ 2,000$
Dufferin: Nottawasaga River	7,000	Twin Lake Upper Island Lake Wartz Lake	7,000 1,600 5,000
Elgin: St. Thomas City Reservoir	5,000	Weashkog Lake White River	10,000 8,000
Grey: Sheppard's Lake	10,600	Cochrane: Charlebois Lake Croft Creek	500 600
Haliburton: Burnt Lake	5,000	Dalton's Lake  Dandurand Creek  Fuller Creek	500 800 500 500
McFadden's Lake Muskoka:	5,000	Grassy River Lake of Bays Legare Creek McIntyre Lake	800 800 500
Indian River Long Lake	7,000 3,000	Metagami River Ramsbottom Creek Red Sucker River	500 500 500
Norfolk: Patterson's Creek	3,000	Rowley Lake Shaw's Creek Waterhen Creek	800 400 500
Simcoe: Coldwater River Kempenfeldt Bay	3,600 7,000	Wealthy Creek  Norfolk:	500
Sturgeon River Sudbury:	3,600	Vittoria Creek Renfrew:	100
Unnamed lake York:	4,000	Nadeau Creek	175
Humber River Private Waters (Sale)	5,000 3,000	Thunder Bay: Allen Lake Blend River	6,000 8,000
SPECKLED TROUT FINGERLINGS		Cedar Creek Cummings Lake	$11,000 \\ 12,000$
Algoma: Aubinadong Lake	8,500	Current River Hilma Lake Johnston Lake	$24,000 \\ 2,000 \\ 2,000$
Batchewana River Big Bear Lake Blue Lake	5,000 10,000 15,000	Kaministiquia River Lenora Lake Lesage Lake	10,000 6,000 5,000
Camp 12 Lake Canoe Lake Caribou Lake	8,500 $10,000$ $15,000$	Lower Pass Lake  McIntyre River  McKenzie River	4,500 10,000 9,000
Carp River Chippewa River Christman Lake	3,000 5,000 5,000	Mount Stephen Lake  Neebing River  North Enders Lake	$   \begin{array}{c}     6,000 \\     12,000 \\     6,000   \end{array} $
Deer Lake	4,000 1,500 3,000	Ozone Waters  Partridge Lake  Pitch Creek	$12,000 \\ 5,000 \\ 14,000$
Island Lake (176) Jobammeghia Lake Kashawong Lake	4,000 2,000 3,000	Trout Creek	12,000 3,000
Kawagama River Laughing Lake Loon Lake (Deroche) Lower Island Lake	4,000 $7,000$ $7,000$ $1,600$	Timiskaming: Small Spot Creek Private waters (Sale)	$\begin{smallmatrix}800\\250\end{smallmatrix}$
Mashagami Lake Moose Lake	10,000	YEARLINGS	
Pancake River Quinn Lake Ranger Lake	$5,000 \\ 100 \\ 8,500$	Algoma: Achigan Lake Achigan Creek	2,000 3,000
Reserve Lake	10,000	Agawa River	1,000

SPECKLED TROUT—Cont	inued	Michipicoten River	6,000
Alamana Continued		Mile 58 Lake	1,000
Algoma—Continued	1 800	Miltelm Lake	1,000
Alva Lake	1,000	Mongoose Lake	2,000
Anjigami Creek	$\begin{smallmatrix}2,000\\2,000\end{smallmatrix}$	Moose Lake (25 R.13)	2,000
Appleby Lake	1,500	Mountain Lake	500
Arnill Lake	1,000	Mud Lake	2,500
Aubinadong Lake Aweres Lake	4,000	Ned's Lake	1,500
Bamagesic Lake	2,000	Patton Lake Pine Lake (24-R-13)	2,000
Basswood Lake	2,000	Pine Lake $(U_1)$	$\substack{2,000\\500}$
Batchewana River	8,000	Pine Lake (25-R-11), or	300
Bellevue Creek	1,500	Prugh	2,000
Boyles Creek	2,000	Pinkney Lake	1,000
Bridgeland River	4,000	Rand Lake	2,000
Burrows Lake	2,000	Ranger Lake	1.500
Caldwell Lake	500	Reserve Dam Creek	1.000
Camp Lake	1,500	Richardson Creek	1,500
Camp 8 Creek	1,000	Rock Lake	1,000
Capp Lake	1,000	Root River	7,000
Caribou Lake	2,000	Round Lake (Grassett)	1,500
Chiblow Lake	2,000	Round Lake (1 A.)	500
Chippewa River	4,000	St. Mary River	1.000
Chub Lake	4.000	Sand Lake Creek	2,000
Clear Lake (Aweres)	2,000	Sand River	2,000
Clear Lake Creek (Scarfe)	1,000	Sausabic Lake	1,500
Corston Lake	1,500	Scarbo Lake	1,000
Dam Creek	1,000	Silver Creek	7,000
Dam Lake	4,000	Sister Lake No. 1	500
Deer Lake	2,000	Sister Lake No. 2	500
Devil Lake	1,000	Speckled Trout Lake	000
Diamond Lake	3,000	(1 A.)	2,000
Driving Creek	3,000	Speckled Trout Lake	_,,,,,
Emerald Lake	1,500	(176)	1,500
Foot Lake	2,000	Speckled Trout Lake	_,
Franklin Lake	1,500	(28-R-16)	500
Garden Lake	1,000	Spruce Lake	1.500
Garden River	7,000	Sucker Lake	2,000
Goodwin Lake	2,000	Summit Lake	2,000
Goulais River	3,000	Tamarack Lake	500
Green Lake	1,500	Tawabinasay Lake	2,000
Harmony River	1,500	Tea Lake	2,500
Hawk Lake	2,000	Triple Lake	1,000
Hoath, or Heydon Lake	1,000	Trout Lake (62)	2,000
Hobon Lake	2,000	Trout Lake (167)	1,000
Hubert Lake	2,000	Trout Lake (Aweres)	3,000
Island Lake (Aberdeen)	1,500	Trout Lake Inlet	500
Island Lake (176)	2,000	Twin Lakes	5,000
Jobammeghia Lake	3,200	Two Tree River	1,500
Kennedy Lake	1,500	Upper Island Lake	7,000
Kinoch Lake	1,500	Wallace Lake	500
Laughing Lake	3,000	Wartz Lake	2,000
Little Blind River	1,000	Waterhole Lake	2,000
Little White River	5,000	Wawa Lake	2,000
Lonely Lake	2,000	White River	1,000
Long Lake (Jarvis)	$\begin{smallmatrix}1,000\\3,000\end{smallmatrix}$	Whitehead's Creek	1,500
Long Lake (Meredith) Loon Lake (Deroche)	3,000	Downsta	
Loon Lake (24 R.13)	2,000	Brant:	200
Loon Lake (Kirkwood)	4,000	Moody and Lyons Creek	200
Loonskin Lake	2,000	Bruce:	
Lower Island Lake	7,000	Big Bay Swamp	300
Mashagami Lake	1,500	Colpoy Creek	450
McCormick Lake	4.000	French Bay Creek	450
McCrea Lake	1,500	Hill's Spring	450
McGill Creek	1,000	Judge's Creek	3,900
McGrath Creek	2,000	Nine Mile River	1,800
McKinnon Creek	1,500	Pettigrew Spring	450
McVeigh Creek	1,500	Sauble River	900
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Bruce—Continued   Sharp's Spring   1,350   Grange Hall Creek   500   Sharp's Spring   1,350   Grange Hall Creek   500   Spring Creek (Manbel)   1,800   Leitch Creek   500   Spring Creek (Carrick)   900   Matthews Creek   500   Spring Creek (Carrick)   900   Matthews Creek   500   Spring Creek   450   Wallow Creek   450   Wallow Creek   450   Willow Creek   450   Matthews Creek   2,400   Cohrane:   Camp Lake   2,400   Camp Lake   2,400   Camp Lake   2,500   Sharbot Creek   450   Margan Lake   150   Crindstone Lake   4,800   Margan Lake   250   Sharbot Creek   250   Sharbot Creek   250   Credit River   3,100   Greek   250   Credit River   3,100   Greek   250   Credit River   3,100   Grey   Credit River   1,800   Grey   Credit River   1,800   Grey   Credit River   2,700   Beatry Sargens River   2,700   Roads River   2,700   Roads River   2,700   Roads River   2,800   Roads	SPECKLED TROUT—Conti	nued	Deer Creek Eckert Creek	$\frac{500}{500}$
Sharp's Spring	Bruce—Continued		Godwillie Creek	
Silver Creek		1 350	Grange Hall Creek	
Spring Creek (Amabel)				
Spring Creek (Carrick)   900   Matthews Creek   500   Paddis Bay   200   Venison Creek   3,000   Vance's Spring   900   Wolfe Creek   500   Vance's Creek   450   Willow Creek   450   Wilson Creek   450   Wilson Creek   450   Frontenac:   Black Creek   2,400   Camp Lake   4,800   Morgan Lake   150   Early of the Creek   2,500   Early of the C				
Stream entering into   Paddis Bay   200   Venison Creek   3,000			Matthews Creek	
Paddis Bay		000		
Tucker's Spring		200	Venison Creek	
Vanice's Creek   450   Willow Creek   800   Willow Creek   800   Wilson Creek   2400   Camp Lake   2,400   Camp Lake   2,400   Morgan Lake   150   Knowiton Lake   500   Sesekinika Creek   200   Lucky Lake   250   Sharbot Creek   250   Cemetery Creek   200   Trout Lake   500   Cemetery Creek   200   Trout Lake   500   Credit River   3,100   Grand River   1,800   Grand River   1,800   Sanderson Creek   200   Beaver River   7,800   Barton's Creek   200   Big Head River   1,800   Barton's Creek   200   Boyd's Lake   1,800   Barton's Creek   200   Caseman Creek   1,800   Brook's Creek   200   Caseman Creek   1,800   Brook's Creek   200   Caseman Creek   1,800   Cain's Stream   4,400   Deer Creek   1,800   Caseman				
Willow Creek				000
Wilson Creek		800	The section of the se	
Black Creek		450		
Liniment Lake				
Morgan Lake			Camp Lake	
Dufferin:			Grindstone Lake	
Dufferin:				
Dufferin:   Spring Creek entering   Boyle's Creek   500   Buckshot Lake   500   Cemetery Creek   200   Trout Lake   500   Credit River   3,100   Grand River   1,800   Grey:   Nottawasaga River   2,700   Beatry Saugeen River   3,600   Sanderson Creek   200   Beaver River   7,800   Beirness Stream   250   Beirness Stream   250   Ard's Creek   200   Big Head River   1,800   Barton's Creek   100   Boyne River   2,700   Beatty Creek   1,800   Boyne River   2,700   Beatty Creek   200   Caseman Creek   900   Caseman Creek   900   Caseman Creek   1,800   Boyn's Stream   1,400   Deer Creek   1,800   Cain's Creek   200   English Lake   2,700   Cayer's Creek   200   English Cake   2,700   Caodman's Creek   500   Fairbairn Creek   1,800   Goodman's Creek   500   Fairbairn Creek   1,800   Graham's Creek   500   Fairbairn Creek   1,800   Graham's Creek   200   Emglish Creek   1,800   Graham's Creek   200   Firth's Creek   1,800   Graham's Creek   200   Firth's Creek   2,400   Firth's Creek   2,400   Firth's Creek   2,400   Firth's Creek   2,400   McKindley's Creek   2,500   Glen Creek   2,400   McKindley's Creek   2,500   Glen Creek   2,500   McCartney's Lake   1,800   Miller Creek   1,000   Miller Creek   2,500   Mi	Sesekinika Creek	200	Charbot Creek	
Boyle's Creek	D 00			250
Cemetery Creek   200		E00		500
Credit River				
Grand River			Trout Bune	000
Nottawasaga River			9	
Pine River   1,800   Beaver River   2,800   Sanderson Creek   200   Beaver River   7,800   Beirness Stream   250   Early Satzeam   2,700   Early Satzeam   2,800   Early Satzeam   2,900   Early Satzeam   2,700   Early Satzeam   2,000   Early Satzeam   2,000   Early Satzeam   2,800   Early Satzeam   2,8	Nottawasaga River		•	
Sanderson Creek	Pine River			
Durham:   Bell's Lake   2,700				
Ard's Creek   200				
Austim's Creek 500 Boyd's Lake 1,800 Barton's Creek 100 Boyne River 2,700 Beatty Creek 200 Caseman Creek 900 Brook's Creek 500 Christies Creek 1,800 Burk's Pond 1,000 Cook's Creek 500 Cain's Stream 1,400 Deer Creek 1,800 Carscadden Creek 200 English Lake 2,700 Cowper's Creek 200 English Lake 2,700 DeLong's Stream 400 Eugenia Pond 7,400 Drew's Creek 200 Ewart's Lake 1,800 Goodman's Creek 500 Fairbairn Creek 1,800 Graham's Creek 100 Fairbairn Creek 1,800 Graham's Creek 200 Firth's Creek 2,400 Harris Creek 200 Firth's Creek 2,400 Luxton Creek 500 Glen Creek 2,700 McKindley's Creek 1,000 Grand River 500 McLaughlin's Creek 500 Grand River 500 McLaughlin's Creek 500 Max Creek 9,00 Miller Creek 500 McCartney's Lake 1,800 Patterson's Creek 100 McConnell Creek 1,800 Patterson's Creek 100 McConnell Creek 1,800 Patterson's Creek 500 MeCartney's Lake 1,800 Patterson's Creek 200 Miller Creek 1,800 Orono Park Pond 500 MeCartney's Lake 1,800 Patterson's Creek 200 Mountain Lake 500 Patton's Stream 100 Miller Creek 1,800 Powell's Creek 200 Mountain Lake 500 Powell's Creek 200 Mountain Lake 500 Sowden's Creek 200 Rob Roy Creek 2,500 Bassell Creek 500 Unnamed Creek 5,400 Beaver Creek 500 Unnamed Creek 5,400 Beaver Creek 500 Unnamed Creek 3,100 Beaver Creek 500 Unnamed Creek 5,400 Campbell Creek 500 Wilcox Lake 900	Durham:			
Austim's Creek   500	Ard's Creek	200		
Beatty Creek   200	Austim's Creek		Povno Pivor	
Brook's Creek	Barton's Creek		Casaman Crook	
Blurk's Pond	Beatty Creek			
Cain's Stream         1,400         Deer Creek         1,800           Carscadden Creek         200         English Lake         2,700           Cowper's Creek         200         Esplen Pond         900           DeLong's Stream         400         Eugenia Pond         7,400           Drew's Creek         200         Ewart's Lake         1,800           Goodman's Creek         500         Fairbairn Creek         1,800           Graham's Creek         200         Firth's Creek         450           Harris Creek         200         Firth's Creek         2,400           Hayden's Creek         2,500         Firth's Creek         2,400           Luxton Creek         2,500         Glen Creek         2,400           McKindley's Creek         1,000         Grand River         500           McLaughlin's Creek         500         Lawrence Creek         900           Miller Creek         200         McCartney's Lake         1,800           Muldrew's Creek         200         McCartney's Lake         1,800           Pattori's Stream         100         McCartney's Lake         1,800           Pattori's Creek         200         Miller Creek         1,000           Pow				
Cars cadden Creek         200         English Lake         2,700           Cowper's Creek         200         Esplen Pond         900           DeLong's Stream         400         Eugenia Pond         7,400           Drew's Creek         200         Ewart's Lake         1,800           Goodman's Creek         500         Fairbairn Creek         1,800           Graham's Creek         100         Ferguson Creek         1,800           Harris Creek         200         Finn's Creek         2,400           Harris Creek         2,500         Glen Creek         2,400           Luxton Creek         500         Glen Creek         2,700           McKindley's Creek         1,000         Grand River         500           McLaughlin's Creek         500         Manx Creek         900           Mercer's Creek         200         McCartney's Lake         1,800           Muldrew's Creek         100         McCartney's Lake         1,800           Muldrew's Creek         100         McCartney's Lake         1,800           Muldrew's Creek         200         McCartney's Lake         1,800           Orono Park Pond         500         McCartney's Lake         1,800			Deer Creek	
Cowper's Creek         200         Esplen Pond         7,400           DeLong's Stream         400         Eugenia Pond         7,400           Drew's Creek         200         Ewart's Lake         1,800           Goodman's Creek         500         Fairbairn Creek         1,800           Graham's Creek         100         Ferguson Creek         1,800           Harris Creek         200         Finn's Creek         450           Hayden's Creek         2,500         Firth's Creek         2,400           Luxton Creek         500         Gend Creek         2,700           McKindley's Creek         1,000         Grand River         500           McLaughlin's Creek         500         Lawrence Creek         1,350           Mercer's Creek         200         Manx Creek         900           Miller Creek         200         McCannell Creek         1,800           Muldrew's Creek         100         McConnell Creek         1,800           Orono Park Pond         500         Meino Creek         1,000           Patterson's Creek         500         Miller Creek         1,000           Patterson's Creek         200         Mountain Lake         500           Quantreuil			English Lake	
DeLong's Stream         400         Eugenia Pond         7,400           Drew's Creek         200         Ewart's Lake         1,800           Goodman's Creek         500         Fairbairn Creek         1,800           Graham's Creek         100         Ferguson Creek         1,800           Harris Creek         200         Finn's Creek         450           Hayden's Creek         2,500         Firth's Creek         2,400           Luxton Creek         500         Glen Creek         2,700           McKindley's Creek         1,000         Grand River         500           McLaughlin's Creek         200         Manx Creek         1,350           Mercer's Creek         200         Manx Creek         1,800           Miller Creek         200         Manx Creek         1,800           Muldrew's Creek         100         McCartney's Lake         1,800           Muldrew's Creek         100         McConnell Creek         1,800           Orono Park Pond         500         Meino Creek         1,800           Patterson's Creek         200         Miller Creek         1,800           Powell's Creek         200         Munshaw Lake         1,800           Row's Pond <td></td> <td></td> <td></td> <td></td>				
Drew's Creek   200			Eugenia Pond	
Goodman's Creek			Ewart's Lake	
Graham's Creek         100         Ferguson Creek         1,800           Harris Creek         200         Finn's Creek         450           Hayden's Creek         2,500         Glen Creek         2,400           Luxton Creek         500         Glen Creek         2,700           McKindley's Creek         1,000         Grand River         500           McLaughlin's Creek         200         Manx Creek         900           Mercer's Creek         200         Max Creek         900           Miller Creek         500         McCartney's Lake         1,800           Muldrew's Creek         100         McConnell Creek         1,800           Muldrew's Creek         100         McConnell Creek         1,800           Orono Park Pond         500         Miller Creek         1,800           Patterson's Creek         500         Miller Creek         1,800           Patterson's Creek         200         Mountain Lake         500           Powell's Creek         200         Mountain Lake         500           Quantreul's Creek         200         Mountain Lake         1,800           Sowden's Creek         200         Nigger Creek         2,500           Sowden's Cree			Fairbairn Creek	1,800
Harris Creek				
Hayden's Creek				
Luxton Creek         500         Glen Creek         2,700           McKindley's Creek         1,000         Grand River         500           McLaughlin's Creek         500         Lawrence Creek         1,350           Mercer's Creek         200         Manx Creek         900           Miller Creek         500         McCartney's Lake         1,800           Muldrew's Creek         100         McConnell Creek         1,000           Orono Park Pond         500         Meino Creek         1,800           Patterson's Creek         500         Miller Creek         1,800           Patterson's Creek         500         Miller Creek         1,800           Patterson's Creek         200         Mitchell's Mill Stream         1,800           Powell's Creek         200         Mountain Lake         500           Quantreuil's Creek         200         Munshaw Lake         1,800           Rowe's Pond         200         Nigger Creek         2,500           Sowden's Creek         200         Oxenden Creek         2,500           Sowder's Creek         200         Penner's Creek         250           Strong's Creek         200         Rob Roy Creek         1,800			Firth's Creek	
McKindley's Creek         1,000         Grand River         500           McLaughlin's Creek         500         Lawrence Creek         1,350           Mercer's Creek         200         Manx Creek         900           Miller Creek         500         McCartney's Lake         1,800           Muldrew's Creek         100         McConnell Creek         1,000           Orono Park Pond         500         Meino Creek         1,800           Patterson's Creek         500         Miller Creek         1,000           Patterson's Stream         100         Mitchell's Mill Stream         1,800           Powell's Creek         200         Mountain Lake         500           Quantreuil's Creek         200         Munshaw Lake         1,800           Rowe's Pond         200         Nigger Creek         2,500           Sowden's Creek         200         Oxenden Creek         2,500           Sowper's Creek         200         Pearce Creek         250           Stream at Manvers         1,500         Riley Creek         250           Thompson's Creek         200         Rob Roy Creek         1,800           Elgin:         Spey River         2,700           Bassell Creek			Glen Creek	
Mercer's Creek         200         Manx Creek         900           Miller Creek         500         McCartney's Lake         1,800           Muldrew's Creek         100         McConnell Creek         1,000           Orono Park Pond         500         Meino Creek         1,800           Patterson's Creek         500         Miller Creek         1,800           Patterson's Stream         100         Mitchell's Mill Stream         1,800           Powell's Creek         200         Mountain Lake         500           Quantreuil's Creek         200         Munshaw Lake         1,800           Rowe's Pond         200         Nigger Creek         2,500           Sowden's Creek         200         Oxenden Creek         3,000           Sowper's Creek         200         Pearce Creek         250           Stream at Manvers         1,500         Penner's Creek         250           Strong's Creek         200         Rob Roy Creek         1,800           Thompson's Creek         200         Rob Roy Creek         1,800           Ball Creek         1,500         Sulphur Springs         200           Bassell Creek         500         Sydenham River         3,100	McKindley's Creek	1,000	Grand River	
Miller Creek         500         McCartney's Lake         1,800           Muldrew's Creek         100         McConnell Creek         1,000           Orono Park Pond         500         Meino Creek         1,800           Patterson's Creek         500         Miller Creek         1,800           Patton's Stream         100         Mitchell's Mill Stream         1,800           Powell's Creek         200         Mountain Lake         500           Quantreuil's Creek         200         Munshaw Lake         1,800           Rowe's Pond         200         Nigger Creek         2,500           Sowden's Creek         200         Oxenden Creek         3,000           Sowper's Creek         200         Pearce Creek         250           Stream at Manvers         1,500         Penner's Creek         250           Strong's Creek         200         Rob Roy Creek         1,800           Strong's Creek         200         Saugeen River         5,400           Elgin:         Spey River         2,700           Ball Creek         500         Sulphur Springs         200           Bassell Creek         500         Sydenham River         3,100           Beaver Creek	McLaughlin's Creek			
Mildrew's Creek         100         McConnell Creek         1,000           Orono Park Pond         500         Meino Creek         1,800           Patterson's Creek         500         Miller Creek         1,000           Patton's Stream         100         Mitchell's Mill Stream         1,800           Powel's Creek         200         Mountain Lake         500           Quantreuil's Creek         200         Munshaw Lake         1,800           Rowe's Pond         200         Nigger Creek         2,500           Sowden's Creek         200         Oxenden Creek         3,000           Sowper's Creek         200         Pearce Creek         250           Stream at Manvers         1,500         Penner's Creek         250           Strong's Creek         200         Rob Roy Creek         250           Thompson's Creek         200         Saugeen River         5,400           Elgin:         Spey River         2,700           Ball Creek         500         Sydenham River         3,100           Beaver Creek         500         Lunnamed Creek           Buck Creek         250         (Egremont)         900           Campbell Creek         500         Wilcox Lake				
Orono Park Pond         500         Meino Creek         1,800           Patterson's Creek         500         Miller Creek         1,000           Patton's Stream         100         Mitchell's Mill Stream         1,800           Powell's Creek         200         Mountain Lake         500           Quantreuil's Creek         200         Munshaw Lake         1,800           Rowe's Pond         200         Nigger Creek         2,500           Sowden's Creek         200         Oxenden Creek         3,000           Sowper's Creek         200         Pearce Creek         250           Stream at Manvers         1,500         Penner's Creek         250           Strong's Creek         200         Rob Roy Creek         250           Thompson's Creek         200         Rob Roy Creek         1,800           Elgin:         Spey River         5,400           Ball Creek         1,500         Sulphur Springs         200           Bassell Creek         500         Sydenham River         3,100           Beaver Creek         500         Unnamed Creek           Buck Creek         250         (Egremont)         900           Campbell Creek         500         Wilcox Lake </td <td>Miller Creek</td> <td></td> <td></td> <td></td>	Miller Creek			
Patterson's Creek         500         Miller Creek         1,000           Patton's Stream         100         Mitchell's Mill Stream         1,800           Powell's Creek         200         Mountain Lake         500           Quantreuil's Creek         200         Munshaw Lake         1,800           Rowe's Pond         200         Nigger Creek         2,500           Sowden's Creek         200         Oxenden Creek         3,000           Sowper's Creek         200         Pearce Creek         250           Stream at Manvers         1,500         Penner's Creek         250           Strong's Creek         100         Riley Creek         250           Thompson's Creek         200         Rob Roy Creek         1,800           Elgin:         Spey River         5,400           Ball Creek         1,500         Sulphur Springs         200           Bassell Creek         500         Sydenham River         3,100           Beaver Creek         250         (Egremont)         900           Campbell Creek         250         Wilcox Lake         900				,
Patton's Stream         100         Mitchell's Mill Stream         1,800           Powell's Creek         200         Mountain Lake         500           Quantreuil's Creek         200         Munshaw Lake         1,800           Rowe's Pond         200         Nigger Creek         2,500           Sowden's Creek         200         Oxenden Creek         3,000           Sowper's Creek         200         Pearce Creek         250           Stream at Manvers         1,500         Penner's Creek         450           Strong's Creek         100         Riley Creek         250           Thompson's Creek         200         Rob Roy Creek         1,800           Saugeen River         5,400           Elgin:         Spey River         2,700           Ball Creek         1,500         Sulphur Springs         200           Bassell Creek         500         Sydenham River         3,100           Beaver Creek         500         Unnamed Creek           Buck Creek         250         (Egremont)         900           Campbell Creek         500         Wilcox Lake         900				
Powell's Creek         200         Mountain Lake         500           Quantreuil's Creek         200         Munshaw Lake         1,800           Rowe's Pond         200         Nigger Creek         2,500           Sowden's Creek         200         Oxenden Creek         3,000           Sowper's Creek         200         Pearce Creek         250           Stream at Manvers         1,500         Penner's Creek         250           Strong's Creek         100         Riley Creek         250           Thompson's Creek         200         Rob Roy Creek         1,800           Saugeen River         5,400           Elgin:         Spey River         2,700           Ball Creek         1,500         Sulphur Springs         200           Bassell Creek         500         Sydenham River         3,100           Beaver Creek         500         Unnamed Creek           Buck Creek         250         (Egremont)         900           Campbell Creek         500         Wilcox Lake         900				
Towelr Screek         200         Munshaw Lake         1,800           Rowe's Pond         200         Nigger Creek         2,500           Sowden's Creek         200         Oxenden Creek         3,000           Sowper's Creek         200         Pearce Creek         250           Stream at Manvers         1,500         Penner's Creek         450           Strong's Creek         100         Riley Creek         250           Thompson's Creek         200         Rob Roy Creek         1,800           Elgin:         Spey River         5,400           Ball Creek         1,500         Sulphur Springs         200           Bassell Creek         500         Sydenham River         3,100           Beaver Creek         500         Unnamed Creek           Buck Creek         250         (Egremont)         900           Campbell Creek         500         Wilcox Lake         900			Mountain Lake	
Rowe's Pond   200   Nigger Creek   2,500				
Sowden's Creek         200         Oxenten Creek         3,000           Sowper's Creek         200         Pearce Creek         250           Stream at Manvers         1,500         Penner's Creek         450           Strong's Creek         100         Riley Creek         250           Thompson's Creek         200         Rob Roy Creek         1,800           Elgin:         Spey River         2,700           Ball Creek         1,500         Sulphur Springs         200           Bassell Creek         500         Sydenham River         3,100           Beaver Creek         500         Unnamed Creek           Buck Creek         250         (Egremont)         900           Campbell Creek         500         Wilcox Lake         900	Rowe's Pond			
Sowper's Creek         200         Pearce Creek         250           Stream at Manvers         1,500         Penner's Creek         450           Strong's Creek         100         Riley Creek         250           Thompson's Creek         200         Rob Roy Creek         1,800           Saugeen River         5,400           Elgin:         Spey River         2,700           Ball Creek         1,500         Sulphur Springs         200           Bassell Creek         500         Sydenham River         3,100           Beaver Creek         500         Unnamed Creek           Buck Creek         250         (Egremont)         900           Campbell Creek         500         Wilcox Lake         900	Sowden's Creek		Oxenden Creek	3,000
Stream at Manvers         1,500         Penner's Creek         450           Strong's Creek         100         Riley Creek         250           Thompson's Creek         200         Rob Roy Creek         1,800           Saugeen River         5,400           Elgin:         Spey River         2,700           Ball Creek         1,500         Sulphur Springs         200           Bassell Creek         500         Sydenham River         3,100           Beaver Creek         500         Unnamed Creek           Buck Creek         250         (Egremont)         900           Campbell Creek         500         Wilcox Lake         900		7 7 7	Pearce Creek	250
Strong's Creek         100         Riley Creek         250           Thompson's Creek         200         Rob Roy Creek         1,800           Saugeen River         5,400           Ball Creek         1,500         Sulphur Springs         200           Bassell Creek         500         Sydenham River         3,100           Beaver Creek         500         Unnamed Creek           Buck Creek         250         (Egremont)         900           Campbell Creek         500         Wilcox Lake         900			Penner's Creek	450
Thompson's Creek         200         Rob Roy Creek         1,800           Saugeen River         5,400           Spey River         2,700           Ball Creek         1,500         Sulphur Springs         200           Bassell Creek         500         Sydenham River         3,100           Beaver Creek         500         Unnamed Creek           Buck Creek         250         (Egremont)         900           Campbell Creek         500         Wilcox Lake         900				
Elgin:         Saugeen River         5,400           Ball Creek         1,500         Spey River         2,700           Bassell Creek         500         Sulphur Springs         200           Beaver Creek         500         Unnamed Creek           Buck Creek         250         (Egremont)         900           Campbell Creek         500         Wilcox Lake         900				
Ball Creek         1,500         Sulphur Springs         200           Bassell Creek         500         Sydenham River         3,100           Beaver Creek         500         Unnamed Creek           Buck Creek         250         (Egremont)         900           Campbell Creek         500         Wilcox Lake         900				
Bassell Creek         500         Sydenham River         3,100           Beaver Creek         500         Unnamed Creek           Buck Creek         250         (Egremont)         900           Campbell Creek         500         Wilcox Lake         900				
Beaver Creek         500         Unnamed Creek           Buck Creek         250         (Egremont)         900           Campbell Creek         500         Wilcox Lake         900				
Buck Creek         250         (Egremont)         900           Campbell Creek         500         Wilcox Lake         900				3,100
Campbell Creek 500 Wilcox Lake 900				0.00
	Campbell Creek			
orear oreex 5,000 williams Spring 5,700				
	Olear Oreek	5,000	wintams spling	5,100

SPECKLED TROUT—Contin	nued	Kenora:	
Heliburton		Raleigh Creek	1,500
Haliburton:	250	Lanark:	
Bear Lake (Livingstone) . Bitter Lake	250		4.000
Blue Lake	250	Clyde River	4,800
Burnt River	1,200	Taurs Oreck	1,000
Catchacoma Lake	600	Lennox-Addington:	
Diamond Lake	$\begin{smallmatrix}400\\750\end{smallmatrix}$	Beaver Creek	4,800
Drag River Eagle Lake	500	Big Lake	2,400
Fletcher Lake	2,950	Burns Lake	250
Glidden Creek	900	Graham's Lake Green Lake	$\frac{2,400}{1,000}$
Holland Creek	250	Hyde's Creek	4.800
Hollow Lake	2,700	Little Long Lake	250
Hurricane Lake Kimball Lake	$\begin{smallmatrix}500\\250\end{smallmatrix}$	Rainy Lake	2,400
Millichamp Lake	900	Rock Lake	250
Moon's Creek	1,200	Ruttan's Lake Shiner Lake Creek	$\substack{2,400\\250}$
Oblong River	1,400	Smith's Lake	250
Otter Lake	900	Snake Creek	500
Partridge Lake Poverty Lake	$\begin{array}{c} 250 \\ 900 \end{array}$	Thirty Island Creek	250
Raven Lake	1,800	Unnamed stream	
Redstone River	500	(Denbigh)	250
Round Lake	250	White Lake	$\begin{array}{c} 250 \\ 250 \end{array}$
Slipper Lake	250	Teoman's Orcer	250
TTalkama		Manitoulin:	
Halton:	000	Blue Jay Creek	1,500
Crawford Lake	900	Harris Creek	1,500
Hastings:		Mindemoya River	1,500
Alexander Creek	1,000		
Bartlett Creek	4,400	Middlesex:	
Brett's Lake	3,400	Cody Creek	2,190
Carleton Creek	500	Stream—C.13 lot 31 London Tp	500
Cedar Creek	4,800	Wye Creek	1,000
Deer River Diamond Lake	$\begin{smallmatrix}2,000\\1,000\end{smallmatrix}$	. Hyd didda ttttttttt	-,000
East Lake	500	Muskoka:	
Echo Lake	4,800	Big East River	9,000
Egan Creek	3,400	Bigwind Lake	900
Foster's Lake	500	Bird Lake	900
Fraser's Creek	$1,500 \\ 1,500$	Black Creek	2,000
Gin Creek	$\begin{array}{c} 1,500 \\ 500 \end{array}$	Boyne Creek Clear Lake (Sinclair)	$\frac{2,000}{1,200}$
Hinze's Lake	2,400	Clear Lake (Oakley)	900
Horse Lake	500	Creeks running into	
Little Mississippi Lake	500	Fairy Lake	4,000
Little Papineau Lake McCormick Lake	$\substack{1,200\\3,600}$	Creeks running into	4 000
Mud Turtle Lake	500	Peninsula Lake Creeks running into	4,000
Nobs Lake	500	Muskoka River	6,000
Peel's Lake	1,000	Creeks running into	-,
Rawdon Creek	4,800	Vernon Lake	4,000
Shaw Lake Shire Creek	$\begin{smallmatrix}500\\3,400\end{smallmatrix}$	Eastails Lake	$\frac{900}{2,700}$
Spurr Lake	1,400	Echo Lake Fox Lake	3,000
Squire's Creek	4,800	Fraser's Lake	900
Vanderbeck Lake	4,800	High Lake	900
Waterhouse Lake	4,800	Jessups Creek	2,000
York River	500	Lake Joseph	2,800
Huron:		Lake of Bays Lake Rosseau	$\frac{5,400}{2,000}$
Patterson's Creek	3,000	Little Clear Lake	600
Porter's Creek	1,500	Little East River	3,000
St. Helen's Creek	250	Long Lake (Cardwell)	1,105
Wilson's Creek	900	Long Lake (Franklin)	900

SPECKLED TROUT—Conti	nued	Mayhew's Creek O'Grady's Creek	$\frac{500}{1,500}$
Muskoka-Continued		Pegnan's Creek	2,000
Long Lake (Ridout)	900	Piper's Creek	100
Loon Lake	900	Quinn's Creek	1,000
	350		
Loon Lake Creek		Robin's Creek	200
Martin Lake	900	Sandy Flats Creek	2,000
McReynold's Lake	900	Spring Creek	300
Monahan Lake	900	Taylor's Creek	500
Muskoka Lake	1,500	Trout Creek	3,000
Muskoka River	3,000	Valleau Creek	1,000
Oxtongue Lake	900		
Oxtongue River	3,000	Ontonios	
Pine Lake	900	Ontario:	
Poverty Lake	900	Black Creek	1,000
Rebecca Lake	1,350	Electric Light Pond	500
Rill Lake	1.055	Elgin Park Pond	500
Shoe Lake	900		
Skeleton Lake	2,500	D Co 4.	
Split Rock Lake	900	Parry Sound:	
Tooke's Lake	1.055	Barrett's Creek	1,000
Wolf Lake	900	Bear Lake	200
Wolf Bano	000	Beatty Creek	1,250
Nipissing:		Begsboro Creek	2,500
Boat Lake	600	Big Clam Lake	200
Bourdeaux Lake	300	Birch Lake	1,250
Cedar Lake	$\frac{300}{250}$	Black Creek (Strong)	2,500
Clear Lake (Lyell)		Black Creek (Gurd)	1,250
	500	Cashman's Creek	200
Clear Lake (Gooderham).	500	Clear Lake	-00
Crooked Lake	100	(S. Himsworth)	500
Frog Lake	500	Clear Lake (Perry)	1,800
Gorge Lake	100	Clear Lake (Wilson)	125
Hoover's Lake	900	Clear Lake (Armour)	200
Little Madawaska River	500	Commanda Creek	2,500
Little Tyne River	100	Compass Lake	360
Long Lake	600	Cummings Lake	250
Magnetawan River	200	Deer River (Lount)	450
McNorton Lake	800	Distress River	1,250
Montreauil Lake	500	Dunkers Creek	1,250 $1,250$
Nelson's Lake	900		125
North River	1,000	Eagle Lake	3,000
Red Rock Lake	200	Genesee Creek	200
Rocky Lake	500	Horne Lake	360
Rowan Lake	150	James Creek	
Unnamed stream running		King Lake	125
into McPhee Lake	500	Little Lake	100
White Lake	150	Little East River	900
		Little Pickerel River	125
Norfolk:		Long Lake	900
Big Creek	1,500	Lynx Lake	400
Forestville Creek	1,250	Magnetawan River	4,310
Hay Creek	1,150	Owl Lake	200
Kent Creek	1,500	Pine Lake	100
Nanticoke Creek	1,250	Ragged Creek	360
Vittoria Creek	10	Rat Lake	360
Winter's Creek	1,100	Reasin Lake	200
	,		$\frac{200}{200}$
Northumberland:		Rock Lake	
Big Creek	500	Russell's Creek	1,250
Biltmore Creek	3,000	Ryan's Creek	400
Black's Creek	3,000	Shadow River	1,200
Burnley Creek	6,000	Shell's Lake	100
Chidley's Creek	100	South River	2,500
Dartford Creek	3.000	Stellar Creek	1,250
Dawson's Creek	1,500	Stirling River	1,000
DeLong's Creek	500	Stoney Lake	500
Duncan's Creek	1,500	Three Mile Lake	200
Heffernan's Creek	1,000	Trout Creek	1.350
Little Cole Creek	1,000	Tug-of-War Creek	200
	1,000	148 01 1141 01001 11111	-00

SPECKLED TROUT—Conti	nued	Anderson Lake	
		(St. Ignace)	1,500
Peel:		Arrow River	2,000
Caledon Lake	1,000	Bass Creek	$\frac{4,000}{2,000}$
Credit River	1,900	Beaver Lake	2,000
Temple Stream	500	Bertha Lake	1,000
Perth:		Big Duck River	4,000
	2 000	Big MacKenzie River	14,000
Avon River	3,000	Boulevard Lake	3,000
Peterborough:		Bruley Creek	7,000
Big Ouse River	5,000	Camp Lake	4,000
Buchanan Creek	1,000	Cedar Creek Centre Lake	$11,000 \\ 1.000$
Cavan Stream	3,000	Coldwater River	3.000
Little Ouse	6,000	Corbett Creek	5,000
Mount Pleasant	1,000	Cousineau Lake	1,000
Trennum's Creek	1,500	Crockers Lake	1,500
The Control of the Co		Current River	14,000
Renfrew:		Deception Lake	7,000
Battery Lake	1,000	Echo Lake	3,000
Black Lake	500	Fall Lake	3,000
Carson Lake	$\substack{\textbf{1,000}\\500}$	Fawn Lake	$\frac{1,500}{1,500}$
Dam Lake	1.000	Fog Lake	$\frac{1,300}{2,000}$
Eady's Lake	500	High Bluff Lake	500
Foy's Creek	1,000	Hogan Lake	1.500
Godin's Lake	500	Kaministiquia River	7,000
Johnson Lake	1,250	Kowkash River	1,500
Loche Lake, or		Langley's Lake	2,500
Goshen Creek	2,000	Little MacKenzie River	2,000
Long Lake	1,250	Little Lake	1,000
MacKay Creek	1,200	Little Whitefish River	2,000
Nadeau Creek Paddy's Lake	$\begin{smallmatrix}700\\2,500\end{smallmatrix}$	Loftquist Lake	14,000
Rock Lake	500	Loon Creek	$\frac{1,500}{3,000}$
Round Lake	500	Loon Lake Loon River	5.000
Schooner Lake	1,250	Lower Pearl River	2.000
Smith Lake	500	Lower Hunter Lake	1,500
Snake Lake	1,250	Mac's Lake	1,000
Spring Creek	1,000	Maxwell Creek	1,500
Trout Lake	1,000	McIntyre River	7,000
Turner Creek	170	McGregor Lake	1,000
wyne creek	1,800	McVicar Creek	3,000
Simcoe:		Mirror Lake	1,500
Black Creek	300	Missed Lake	1,500
Boyne River	1,200	Moose Lake	
Corbett Creek	1,800	(near Rossport)	1,500
Greenlaw Pond	100	Moose Lake	2 000
Mathewson's Creek	1,200	(McTavish Tp.) Morgan Creek	$\frac{3,000}{1,500}$
Sheldon Creek	3,000	Neebing River	7,000
Silver Creek	2,000	Nipigon River	28,000
Sturgeon River	7,000	Oliver Lake	7.000
Tenth Creek	$\begin{smallmatrix}500\\1,200\end{smallmatrix}$	Paquette Lake	2,500
Willow Creek	1,200	Pass Lake	7,000
Sudbury:		Paysplatt River	3,000
Bertrand Creek	1.200	Pearl River	2,000
Ella Lake	1,050	Pickerel Lake	2,500
Pumphouse Creek	1,000	Pitch Creek	7,000
Sauble River	1,500	Raft Lake	2,000
Shiner Lake	1,000	Randolph Creek	500
m) 1 D		Rock Lake	1,500
Thunder Bay:		Rock River	5,000
Allen Creek	1,000	Round Lake	1,000
Anderson Creek	1,500	Samec Lake	$\frac{1,000}{2,000}$
Anderson Lake (McTavish)	1,462	Sand Lake	4,000

SPECKLED TROUT—Continued		Wentworth:	
		Spencer Creek	4,000
Thunder Bay—Continued		Twelve Mile Creek	800
Sand Lake (near	1,500		
Schreiber) Silver Lake	1,500	York:	
Silver Islet Creek	1,	Doan's Pond	500
Skillen Lake	2,000	Private waters—	
Spectacle Lake	2,000	Sale and demonstration	8,626
Spring Creek (Dorion)	2,000		
Spring Creek No. 1	2,500	ADULTS	
Spring Creek No. 2	2,500	112 0212	
Spring Lake (Adrian)	1,000	Algoma:	
Squaw Creek	4,000	Batchewana River	250
Trap Lake	1,000	Harmony River	250
Trout Lake (Gorham)	7,000	Heydon Lake	500
Trout Lake (Stirling) Upper Hunter Lake	$\substack{12,500\\1,500}$	Island Lake (Aweres)	330
Upper Pearl Lake	2,000	Lower Island Lake	800
Wanogi Lake Creek	7,000	Root River	690
Walker Lake	2,000	Trout Lake (Aweres)	700
Welch Lake	1,000	Grey:	
White Sand Creek	6,500	•	0.00
Whitewood Creek	7,000	Woodland Spring	200
Wideman Lake	1,500		
Wolf River	3,000	Thunder Bay:	
		Bass Creek	800
Timiskaming:		Bruley Creek	1,000
Bartle Lake	500	Coldwater River	1,000
Belle Isle Lake	500	Current River	1,500
Crystal Lake	1,000	Kaministiquia River	800
Fairy Lake	1,500	Loon Lake	781
Gleason Creek	$\begin{smallmatrix} 500 \\ 400 \end{smallmatrix}$	Lower Pass Lake	900
Halfway Lake Hooker Creek	400	Mattawin River	$\begin{array}{c} 800 \\ 800 \end{array}$
Jean Baptiste Lake	500	Neebing River Pearl River	900
Lake Timagami	2,500	Pitch Creek	1.000
Little Otter Lake	500	Spring Creek (Dorion)	145
Moffatt Creek	500	Trout Lake (Gorham)	800
Munro Lake	400	Trout Lake (Stirling)	800
Pike Creek	1,250	Private waters (Sale and	
South Wabi Lake	500	demonstration)	404
Spring Creek	1,250		
Trout Creek	500	WHITEFISH	
Ward Creek	$\begin{array}{c} 500 \\ 500 \end{array}$	WALLED ASSA	
Welcome Creek	500	FRY	
Whitney Lake	500		
		Hastings:	
Victoria:		Bay of Quinte 12,0	000,000
Corbin's Creek	100		
		Kenora:	
Waterloo:		Eagle Lake	
Elora Stream	1,500	Lake of the Woods 32,1	
Erbsville Creek	3,000		250,000
Idyle Wild Stream	300		500,000
Mannheim Stream	3,000	Stanzihikimi Lake 2	250,000
Welland:			
Effingham Stream	1,500	Prince Edward:	
Sulphur Springs	1,500	Bay of Quinte 39,0	000,000
~ wikings ~ himpn	2,000		
Wellington:		Rainy River:	
Bell's Creek	3,000	Rainy Lake 10,2	260.000
Bunyan Creek	2,400		-,
Esson Creek	500	Thunder Deve	
O'Dwyer's Creek	700	Thunder Bay:	00000
Saugeen River	3,000	Nipigon Lake 2	225,000

# WHITEFISH—Continued

York:
Lake Couchiching 1,400,000
Lake Simcoe 2,200,000
Great Lakes:
Lake Superior 725,000
North Channel 4,291,400 Georgian Bay 46,240,000
Lake Erie
Lake Huron 20,210,000
Lake Ontario 74,000,000
EYED EGGS
Exchange 4,000,000
HERRING
FRY
FRI
Frontenac:
Palmerston Lake 250,000
Lennox-Addington:
Weslemkoon Lake 250,000
Peterborough:
Loon Lake 250,000
Prince Edward:
Bay of Quinte 1.100.000
, , , , , , , , , , , , , , , , , , , ,
Great Lakes:
Lake Erie
Dake Official 10 2,800,000
Miscellaneous:
Demonstration Purposes . 150,000
EYED EGGS
Demonstration purposes . 30,000
MISCELLANEOUS
Demonstration purposes . 3,053

# APPENDIX No. 2

# ONTARIO DEPARTMENT OF GAME AND FISHERIES DISTRIBUTION OF FISH ACCORDING TO SPECIES—1933 TO 1937, INCLUSIVE

	1933	1934	1935	1936	1937
Large-mouthed Black Bass Fry Fingerlings Yearlings & Adults	856	35,250 4,250 197	130,000 2,153 27*	45,000 8,398	135,000 4,12 9:
Small-mouthed Black Bass Fry Fingerlings Yearlings & Adults	545,000 25,750 3,471	365,500 35,750 420	696,000 153,065 3,433	780,000 69,380 5,202	1,275,000 141,900 5,893
Maskinonge—Fry		909,500	460,000	274,000	420,700
Ferch—Fry		95,000,000	53,031,400	46,080,000	9,150,00
Pickerel—Eyed Eggs	20,500,000	5,000,000 278,470,000	2,000,000 229,629,000	2,000,000 300,759,500	2,000,000 263,743,400
Pickerel (Blue) Fry					1,000,000
Brown Trout—Fingerlings Yearlings Adults	483,016 674	138,000 14,500 689	109,000 9,650 6*	147,050 7,290	97,484
Lake Trout—Eyed Eggs Fry Fingerlings	200,000 1,400,000 16,012,700	402,000 1,265,000 14,045,450	7,773,034 14,564,000	3,209,400 4,165,000 18,253,244	3,225,00 4,667,00 15,782,35
Landlocked Salmon (Ouananiche) (Yearlings)			13,640		•••••
Atlantic Salmon Fry			,		7,20
Rainbow Trout—Eyed Eggs Fry Fingerlings Yearlings	27,016	1,000 4,480 312,512 25,014	134,075 314	133,000 3,507	105,24
Kamloops Trout—Fingerlings	••••••		85,464 10,796		80,000
Speckled Trout—Eyed Eggs Fry Fingerlings Yearlings Adults	506,000 725,000 5,950,255 28,237 1,549	6,257,267 34,762 1,652	1,645,000 5,013,831 35,421 5,420	28,600 182,000 1,053,050 557,270 6,081	384,725 1,167,073 16,150
Whitefish—Fry Eyed Eggs	372,111,000	376,777,000	296,482,000	428,402,000 112,500	383,683,900 4,000,000
Herring-Fry Eyed Eggs	22,805,000	17,512,000	43,760,000	56,120,000	5,270,000 30,000
Golden Shiners		7,000	500		
Miscellaneous					3,05
TOTALS	441,325,524	796,619,193	655,747,231**	862,401,472	696,395,28

<sup>\*</sup> Exhibition fish

<sup>\*\*</sup> This total does not include a distribution of 132,646,600 fry and eyed eggs during the five months immediately preceding the said report.

# APPENDIX

# GAME AND FISHERIES

Statistics of the Fishing Industry in the Public Waters of  ${\bf EQUIP} \\$ 

District		Tugs			asoline unches	Sail and Row Boats		Gill Nets		
		No.	Tons	Value	No.	Value	No.	Value	Yards	Valu <b>e</b>
Northern Inland Waters Lake Superior North Channel Georgian Bay Lake Huron Lake St. Clair Lake Erie Lake Ontario Southern Inland Waters		9 11 16 17 	50 239 219 377 463		118 58 161 144 44	\$ 72,140 52,350 32,975 108,447 96,180 11,266 203,995 108,500 3,075	283 79 62 115 35 88 152 194 138	\$ 11,061 4,312 3,205 7,192 1,680 3,975 6,852 7,431 4,547	603,784 1,249,740 1,867,623	110,119 88,900 115,442 242,442 219,170 113,364
Totals	4,440	89	2,225	\$597,633	1,092	\$688,928	1,146	\$50,255	8,350,613	\$959,367

## **APPENDIX**

# QUANTITIES OF

District	Herring	Whitefish	Trout	Pike	Pickerel (Blue)	Pickerel (Dore)
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
Northern Inland Waters Lake Superior North Channel Georgian Bay Lake Huron Lake St. Clair Lake Erie Lake Ontario Southern Inland Waters	528 2,246,952 2,790 26,896 199,772 99,447 1,572,911 4,286	1,122,895 286,981 355	1,698,585 644,025 1,504,194 1,753,699 151 204,955	49,916 806 16,734 2,750 141,368	5,872 20,982 500 9,354,687	1,154,287 61,832 71,271 129,767 197,683 47,240 448,957 21,785 3,355
Totals	4,153,582	5,518,388	6,098,993	1,040,940	9,449,521	2,136,177
Price per pound	.05	.11	.11	.06	.05	.11
Values	\$207,679.10	\$607,022.68	\$670,889.23	\$62,456.40	\$472,476.05	234,979.47

# No. 3

## DEPARTMENT, ONTARIO

Province of Ontario, for the Year Ending December 31st, 1937.

#### MENT

ŀ	Seine 1	Nets	Pour	d Nets	Hoor	) Nets		and Nets	Night	Lines	Sp	ears		ezers & Houses	1	ers and harves	Total Value
No.	Yards	Value	No.	Value	No.	Value	No.	Value	No. Hooks	Value	No.	Value	No.	Value	No.	Value	
4 45 50 9 62	2,710	4,791		38,077 76,660 81,450 12,300	50  5 13	500 1195 15,592		\$ 2 3 4 918 243		134  4,145 1,387 136 64 188	6		71 18 98 38	15,230 13,380 14,785 27,545 6,150	30 38 62 34 9 78 26	\$9,500 12,223 18,300 27,755 9,740 1,625 26,290 6,540 200	269,823 260,137 455,357 597,119 40,746 1,142,615 261,928
170	34,035	\$22,091	1,093	\$555,677	1,098	\$  26,773	86	\$1,170	57,920	\$6,466	86	603	527	\$256,565	369	\$112,173	\$3,277,701

# No. 4

#### FISH TAKEN

Sturgeon	Eels	Perch	Tullibee	Catfish	Carp	Mixed Coarse	Caviare	Total	Value
lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	
1,637 9,078 1,041 7,225 9,566	65,987 8,919	$\begin{array}{c} 6,355\\ 4,388\\ 145,589\\ 31,582\\ 1,691,074\\ 147,986\end{array}$	131,070 6,563 91,709	49 4,736 82,105 81,729 56,687	580 2,688 29,059 8,207 288,753 337,898	54,292 253,677 114,480 58,520 289,600 1,258,095 271,877	12 6 395 249 656 73	4,508,992 1,307,470 3.079,087 3,188,770 766,308	349,994.95 122,294.89 319,004.49 300,613.15 41,582.96 826,094.55 222,022.57
93,041	74,906	2,050,126	947,120	535,692	1,086,407	2,905,451	2,528	36,092,872	
.40	.07	.05	.06	.08	.05	.03	1.00		
\$37,216.40	\$5,243.42	\$102,506.30	\$56,827.20	\$42,855.36	\$54,320.35	\$87,163.53	\$2,528.00		\$2,644,163.49

APPENDIX No. 5
COMPARATIVE STATEMENT OF THE YIELD OF THE FISHERIES OF ONTARIO

Kind	1936 Pounds	1937 Pounds	Increase Pounds	Decrease Pounds
Herring	4,298,562	4,153,582		144,980
Whitefish	5,790,403 $6,458,730$	$\begin{bmatrix} 5,518,388 \\ 6.098,993 \end{bmatrix}$		272,015 $359,737$
Trout	1.158,345	1.040.940		117.405
Pickerel (blue)	6.899.501	9.449.521	2,550,020	111,100
Pickerel (dore)	2,393,178	2,136,177		257,001
Sturgeon	106,868	93,041		13,827
Eels	61,780	74,906	13,126	
Perch	1,586,959	2,050,126	463,167	
Tullibee	920,155	947,120	26,965	
Catfish	609,488	535,692		73,796
Carp	$1,166,710 \\ 2.802,028$	1,086,407 $2,905,451$	103,423	80,303
Caviare	1,906	2,528	622	
TOTALS	34,254,613	36,092,872	*1,838,259	

<sup>\*</sup> Net Increase

# APPENDIX No. 6 STATEMENT OF YIELD OF THE FISHERIES OF ONTARIO $_{1937}^{1937}$

Kind	Quantity Pounds	Price per Pound	Estimated Value
Herring Whitefish Trout Pike Pike Pickerel (blue) Pickerel (dore) Sturgeon Eels Perch Tullibee Catfish Carp Mixed and coarse Caviare	$\begin{array}{c} 4,153.582 \\ 5,518.388 \\ 6,098,993 \\ 1,040,940 \\ 9,449,521 \\ 2,136,177 \\ 93,041 \\ 74,906 \\ 2,050,126 \\ 947,120 \\ 535,692 \\ 1,086,407 \\ 2,905,451 \\ 2,528 \end{array}$	\$ .05 .11 .11 .06 .05 .11 .40 .07 .05 .06 .08 .05 .03	\$ 207,679.10 607,022.68 670,889.23 62,456.40 472,476.05 234,979.47 37,216.40 5,243.42 102,506.30 56,827.20 42,855.36 54,320.35 87,163.53 2,528.00
TOTALS	36,092,872		\$2,644,163.49

# APPENDIX No. 7

# ESTIMATED VALUE OF ONTARIO FISHERIES FOR A PERIOD OF TWENTY YEARS $1918{-}1937\ \text{INCLUSIVE}$

	\$	1928\$	
1919	 2,721,440.24	1929	
1920	 2,691,093.74	1930	2,539,904.91
1921	 2,656,775.82	1931	2,442,703.55
1922	 2,807,525.21	1932	2,286,573.50
1923	 2,886,398.76	1933	2,186,083.74
1924	 3,139,279.03	1934	2,316,965.50
1925	 2,858,854.79	1935	2,633,512.90
1926	 2,643,686.28	1936	2,614,748.49
1927	 3,229,143.57	1937	2,644,163.49

# **Thirty-Second Annual Report**

OF THE

# Game and Fisheries Department

1938-1939

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 9, 1940



#### TORONTO

# TO THE HONORABLE ALBERT MATTHEWS, Lieutenant-Governor of the Province of Ontario.

## MAY IT PLEASE YOUR HONOUR:

I have the honour to submit herewith for the information of Your Honour and the Legislative Assembly, the Thirty-Second Annual Report of the Game and Fisheries Department of this Province, for the year ended March 31st, 1939.

I have the honour to be,

Your Honour's most obedient servant,

H. C. NIXON,

Minister in Charge,
Department of Game and Fisheries

Toronto, 1940.

# THIRTY-SECOND ANNUAL REPORT

OF THE

# Game and Fisheries Department of Ontario

TO: THE HONOURABLE H. C. NIXON:

Minister in charge,

Department of Game and Fisheries.

SIR:-

I have the honour to submit to you in this and the following pages the Thirty-second Annual Report of the Department of Game and Fisheries, outlining the activities of Departmental services and including various statistical and comparative tables for the fiscal year ended March 31st, 1939.

#### INTRODUCTORY

The wild life of Ontario is a public legacy which for purposes of administration has been entrusted to the Department of Game and Fisheries. It has a value which outranks its material worth, because, besides being an integral part of our economic system, it is of tremendous importance from a recreational standpoint.

It is well to remember that the problem of administration is complicated by the destructive effects of modern civilization. Nature populated our forests with game and fur-bearing animals, our fields, woods and marshes with game and insectivorous birds and our waters with a variety and abundance of fishes not excelled elsewhere. In the scheme of nature a proper balance as to numbers was maintained through natural instinct. In addition, provision appears to have been made for checking over-abundance by means of disease which periodically attacks such species as rabbits, grouse, etc. This provision of nature for setting up a proper balance has been completely upset through a variety of causes. These are mostly the result of the encroachment of civilization and the economic development which is an essential part of human existence. These are some of the conditions which complicate the problem of conserving wild life and have upset the balance set up by nature.

While it is part of the conservation programme to restore as far as possible natural environmental conditions, it will be obvious that much of the difficulty is of a permanent nature incidental to our economic development. If these important facts are kept in mind the necessity for an intensive programme of conservation will be obvious and the need for adapting the work of rehabilitation to meet existing conditions apparent.

Summing up we find that we have in our wild life resources an asset of tremendous importance. It is a resource which, if used wisely, will keep on renewing itself from year to year. The conservation programme of the Department of Game and Fisheries is intended to stimulate this reproduction through protection, and to assist nature through artificial propagation. To be successful, such a programme requires the co-operation of every citizen. This assistance is best rendered by personal observance of the regulations and by discouraging illegal practices in others.

The general situation throughout the Province with regard to game and fish is reasonably satisfactory. During the open season deer were reported to be more numerous in many sections than they had been for many years. It is altogether

likely that the comparatively mild winters of the past two or three years and the added protection which has been afforded them has resulted in a large increase in numbers. Hunters are evidently finding this sport just as interesting as ever. In the sections of the Province where closed seasons have prevailed for years, deer have become very numerous; in fact, in many places they are so plentiful as to be the cause of complaints to the Department.

In the sphere of upland game, conditions are also very gratifying. Partridge were numerous enough to warrant an open season, and pheasants and Hungarian Partridge have become well established over a large section of the southern part of the Province. Rabbits still afford excellent winter hunting and the Jack has now spread over a very wide area.

The duck situation has improved considerably all over the continent, although Ontario hunters found no scarcity of wild fowl last year.

By reason of the fact that the water areas of the Province are so extensive and the varieties of fish available so numerous, it is difficult to do more than comment in a general way on the fishing situation. Angling for speckled trout and brown trout has improved considerably and many suitable streams in old Ontario, which for years have been more or less depleted, are once more providing excellent sport.

Bass fishing in many sections was the best it has been for a number of years.

The pictures and stories of large pike and maskinonge taken by anglers which have appeared in the press are proof that big fish are still to be had in reasonable numbers.

In short, we believe that this Province still provides scores of thousands of hunters and anglers with the finest in sport and health-giving exercise, and that the general situation from the sportsman's standpoint is good.

# FINANCIAL

Upon the advent of the present Administration, and as you are aware, a change was made in the financial period, and commencing in 1935 provision was made under which the fiscal year extended from April 1st to March 31st, and each succeeding year since that time has provided an increased revenue as collected by this Department. It is believed that the following table of revenue, expenditure and surplus, for the present and preceding three years will be of interest.

	Revenue	Expenditure (Ordinary & Capital)	Surplus	
1935-36	\$683,938.72	\$451,041.91	\$232,896.81	
1936-37	782,217.63	474,128.95	318,088.68	
1937-38	866,558.19	563,938.33	302,619.86	
1938-39	914,475.24	575,437.79	339,037.45	

# REVENUE FOR FISCAL YEAR ENDING MARCH 31ST, 1939

ORDINARY—		
MAIN OFFICE—		
GAME—		
Licenses—		
Trapping\$	26,265.30	
Non-Resident Hunting		
Deer	83,526.55	
Moose	2,574.00	
Gun	95,788.45	
Dog	5,348.35	
Fur Dealers	22,007.75	
Fur Farmers	9,550.00	
Tanners	200.00	
Cold Storage	147.00	
-	147.00	
\$	325,822.40	
Royalty	74,064.75	
	, , , , , , , , ,	399,887.15
FISHERIES—		
Licenses—		
Fishing (Commercial)\$	88 568 00	
Angling		
Augus	555,450.05	
\$	428,018.05	
Sales—Spawn taking	311.47	
Royalty		
	10,010.01	441,849.39
inger 1		441,040.00
GENERAL—		
Licenses—		
Tourist Camps\$	6,855.00	
Guides	7,928.00	
	\$14,783.00	
Fines	26,245.40	
Costs Collected (Enforcement of Game Act)	979.90	
Sales-Confiscated articles, etc	21,605.29	
Rent	3,675.07	
Commission retained by Province on sale of licenses	1,824.00	
Miscellaneous	725.59	
		69,838.25
EXPERIMENTAL FUR FARM—		
Sales—Pelts		2,900.45
54100 1 0110		4,500.40

With reference to our financial operations during the year under review, and as previously stated, it will be observed that the total revenue collected by this Department shows a substantial increase over that of the previous year, and which increase amounts to a total of \$47,917.05. The principal specific increases to which this splendid showing may be attributed include an additional \$29,214.09 from the sale of resident deer and gun licenses, \$14,683.90 more fines imposed on those apprehended while violating various provisions of the Game and Fisheries Act and Regulations, an indication of the increased activity of the staff of enforcement officers, while the sales of confiscated articles produced \$10,921.55 in excess of the amount realized from the same source in the preceding year.

Expenditures, both capital and ordinary, amounted to a total of \$575,437.79, which left an operating surplus for the year of \$339.037.45 as shown in a previous statistical table. Some of the principal items of expenditure which go to make up this total include the sum of \$226,716.29 necessary to maintain the staff of enforcement officers operating under this Department, and some \$186,911.00 in connection with the propagation and distribution of fish by the Fish Hatchery Service of the Biological and Fish Culture Branch. Expenditures in connection with the payment of Wolf Bounties totalled the sum of \$25,435.24, while grants to assist in the work of research conducted by various Associations and individuals The sum of \$19,973.00 was expended for game birds and amounted to \$8,900.00. animals, principally in connection with the propagation, purchase and distribution of pheasants. For the purchase of and repairs to boats, boathouses and vehicles it was necessary to expend in all a total of \$12,898.31, while a total capital expenditure of \$16,902.91 was made to take care of additional fish culture ponds and dams, and bird farm buildings, the greater proportion of this amount being spent on improvements at the Codrington Bird Farm. Excluding the aforementioned capital expenditure the net ordinary expenditure therefore totalled \$558,534.88.

#### GAME

The comparative table next following details the various resident and non-resident hunting licenses which were issued during the period under review, as well as similar statistics for the preceding three years. While there was a noticeable reduction in the sale of non-resident general hunting licenses this may be attributed to the fact that following the legislative action provided at the 1938 Session there was no open season for moose in certain areas easily accessible to non-resident visitors, that is the southeastern and southwestern portions of Northern Ontario, but this decrease to a large extent was nullified by the increase in the number of non-resident deer licenses which were issued. Reference has previously been made to the greater number of resident deer and gun licenses which were issued this year.

	1935-36	1936-37	1937-38	1938-39
Resident Moose	496	542	580	471
Resident Deer	14,779	15,394	18,672	21,762
Resident Deer (Camp)	258	262	283	307
Resident Deer (Farmers)	5,221	5,386	6,503	7,719
Resident Gun	85,884	79,531	90,756	114,580
Non-resident Small Game	686	1,129	1,634	1,618
Non-resident Deer	652	848	1,036	1,329
Non-resident "General"	680	878	1,043	569

Conservation and co-operation loom large on the educational horizon of the sportsman. The two are being emphasized as the key to a fuller enjoyment of that wonderful heritage,—our wild-life resources,—with which nature has so bountifully blessed us. Conservation in its broadest sense and as applied to wild life is the effort to keep pace with modern conditions; to profit from past experiences resulting from misuse, and through wise management maintain an adequate supply for present and future needs; to provide proper control and protection based on knowledge and experience; to restore natural conditions wherever possible and to ensure development through natural and artificial propagation. It is a general programme so obviously essential to good management that it should appeal to everyone interested in the safeguarding of a valuable asset.

In the carrying out of such a programme of conservation the Department, due to the difficulties which arise from time to time, requires the full co-operation of the sportsman and which co-operation can best be provided by a complete observance of the laws himself, and by his assistance in educating others to the necessity for so doing. The Game and Fisheries Laws have the approbation of every good sportsman. They are restrictive only to the extent necessary to provide better sport. They embody the result of knowledge and experience and are conservation measures of the utmost importance.

Following is a summary of conditions as they apply to the game life of the Province,—both animal and bird,—compiled from information supplied in reports submitted by the various members of the Field Service Staff of the Department:—

**DEER:**—Reports received in the Department are to the effect that the deer herds in Northern Ontario are more than holding their own despite more intensive hunting than has been the case in previous seasons. There is every indication that these animals are, generally speaking, quite plentiful in the various districts in Northern Ontario, though there are some scattered and isolated sections in the various northern divisions where such is not the case, largely due to the fact that conditions are not quite favourable. Similar observations would be applicable in the several Districts and Counties in the more northerly portion of Southern Ontario, viz.:—Parry Sound, Muskoka, Haliburton and Renfrew, as well as the northern portion of Victoria, Peterborough, Hastings, Frontenac and Lanark.

The value of conservation measures for the protection of wild life perhaps has no better illustration than in the case of deer in the southwestern and southeastern counties. Years ago it became quite evident that the number of deer in these sections of the southern portion of the Province was rapidly diminishing and their numbers becoming quite scarce, and with a view to their restoration the protection of an entire closed season was provided.

Quite obviously the deer have permanently disappeared from the most thickly settled areas, but there is every indication, according to communications and newspaper reports reaching the Department, that they are more prevalent in largely increased numbers in the sections adjacent to the centres of densest population, and where they are now more numerous than they have been for the past several years.

Whatever may be the future of the deer in those areas where settlement and population have made the greatest inroads one thing is certain,—the perpetuation and development of our wild life resources can be definitely assured if we will but unite to afford them that measure of protection and proper control which is necessary to our wise use of them.

MOOSE:—Nowhere in Ontario are these animals to be found in numbers which may be classified as plentiful. There has been an entire close season on this species for several years in Southern Ontario, and reports indicate some improvement in Muskoka, Haliburton, Frontenac and northeastern Renfrew. In Northern Ontario conditions were about the same with some increase in scattered sections of Cochrane and Sudbury Districts. An entire close season existed in the northern part of Nipissing, the southern part of Temiskaming and the southeastern part of Sudbury in the east, and in the District of Rainy River and that part of the District of Kenora south of the main transcontinental line of the C.N.R., in the west and reports would indicate slight improvement in these two protected areas.

CARIBOU:—An entire close season prevails on this species, a few of which may be found in scattered and widely separated sections in northwestern Cochrane,

northern Sudbury, Algoma (particularly the Chapleau Game Preserve), Lake Nipigon section of Thunder Bay, and the Lake of the Woods section.

ELK:—This species also is provided the protection of an entire close season. The original herds were imported from Western Canada. In southern Ontario there are a few specimens on the Bruce Peninsula and on Beausoliel Island in the Georgian Bay, as well as on the Petawawa Crown Game Preserve in Renfrew County. Their numbers in Northern Ontario are principally to be found within such Crown Game Preserves as Nipissing, Burwash, Chapleau, Ranger Lake and Onaman River. Some improvement is reported.

BEAR:—These animals are reported to be quite plentiful in many sections,—particularly in Northern Ontario,—as well as in the northern portion of Southern Ontario. It would appear from reports to the Department that increasing numbers of sportsmen, both resident and non-resident, participate in the sport which the hunting of these animals provides.

RABBITS:—The interested hunter knows that in Ontario excellent sport is provided by the hunting of rabbits during the late fall and winter months. In the southern counties the cottontail is quite plentiful practically throughout, though reports indicate they are none too plentiful in some of the eastern sections. The jack-rabbit or European hare is plentiful in the southwest as well as in some counties to the north. It is found apparently as far east as Northumberland and north to Bruce, Grey, Dufferin, Simcoe, Victoria and Peterborough. The snowshoe rabbit is available in the northern portion of Southern Ontario and in Northern Ontario, though conditions as to the prevalence of this particular species vary considerably. In Parry Sound, Muskoka, Haliburton and Renfrew while not too plentiful they are reported to be increasing numerically, and somewhat similar conditions exist in sections throughout the north.

SQUIRREL (Black and Grey):—These animals are reported to be quite prevalent in the southern and western counties. Sufficiently numerous to warrant the provision of a limited open season and restricted catch.

PARTRIDGE:—This season the hunter had an opportunity of taking this fine sporting bird. The increase in numbers of the ruffed grouse justified an open season which was divided into two parts to afford a wider enjoyment of the sport. Sportsmen are more or less familiar with the cycle of abundance and scarcity which appears to be one of the characteristics of the life history of this bird, and which is one of the primary reasons why open seasons on partridge are not more numerous. The species known as the prairie chicken, or sharp-tailed grouse, is found only in the extreme north and west and their numbers were not too plentiful even in these sections.

QUAIL:—These birds inhabit only the extreme southwestern counties of Essex, Kent, Elgin, Lambton and Middlesex, from where reports are to the effect that conditions and prevalence are quite favorable. They are also reported, though not plentiful, from Dundas, Stormont and Glengarry.

PHEASANT:—These fine game birds are found chiefly in the areas in which Departmental re-stocking has been provided, in the counties at the western end of Lake Ontario and along the north shore of Lake Erie. The continued development of the scheme of Regulated Game Preserve Areas,—that is the Townships in which hunting is controlled,—necessitated an intensification of distribution. The distribution of pheasant eggs was entirely eliminated and our efforts along these lines were confined to the actual distribution of the birds themselves. During the year approximately 20,000 live pheasants were distributed, the greater proportion of which were liberated in the forty-nine Townships included in the scheme of Regulated Game Preserve Areas.

HUNGARIAN PARTRIDGE:—This bird as the name implies is a non-native. The development of this species has been rather an enigma. His progress in Ontario cannot be considered spectacular, but reports from certain sections, particularly the southwestern and southeastern counties, seem to indicate that the birds are steadily becoming more numerous. The following report from one of our Field Officers may be of interest:—

"Concerning the shipment of ten Hungarian partridges which you sent to me last Spring (1938) to be liberated, I thought probably you would be interested to know that at present we have two nice flocks of these birds wintering near my place. One flock consists of about thirty-five birds and the other of about twenty birds. There may still be others around that I do not know of. These birds seem to be very hardy and so far appear to be quite capable of surviving the tough winter and deep snow of this district."

**DUCKS:**—Reports from various members of the Field Staff indicate that this fine game bird continues to provide enjoyable sport during the regular open season in practically every section of the Province, though as has been observed in previous reports the restrictions which govern the open season and limits of catch as at present existing will require to be continued to maintain the degree of hunting which now prevails.

GEESE:—There are but few sections of Ontario in which goose shooting is available. The James Bay shore in the far northern portion of the Province affords perhaps the best opportunity for this sport, but during the southern Fall migration apparently the only section in which hunting is available is in the extreme southwestern counties.

WOODCOCK:—These birds are not very plentiful anywhere in the Province and are extremely scarce in the north. It would appear from reports that in some eastern Counties and along the Lake Erie shore the most favourable conditions prevail.

SNIPE:—While these birds are somewhat more numerous than the woodcock, practically the same conditions apply, though there are more sections in which their numbers provide desirable sport.

**PLOVER:**—Continues quite scarce throughout the entire Province, though some slight improvement is reported from different areas in the extreme southerly counties.

During the year under review Regulations were adopted which provided for special open seasons, details of which are as follows:—

- (a) Deer in that portion of Carleton County lying west of the Rideau River,—from November 5th to 19th, inclusive. General deer hunting regulations governed.
- (b) Deer in the Counties of Grey, Bruce and Simcoe, from November 14th to 19th, inclusive. General deer hunting regulations governed, except that the use of dogs was not permitted.
- (c) Pheasants on Pelee Island, on October 21st and 22nd, and October 28th and 29th. Limit of five birds per day. Special Municipal hunting license \$5.00, October 21st and 22nd; \$3.00, October 28th and 29th.
- (d) Pheasants in the Regulated Game Preserve Areas in the Counties of York, Halton, Wentworth, Lincoln and Welland, on October 21st, 22nd and 29th. Limit of three cock birds per day. Special Municipal hunting license \$1.00 per day

- (e) Pheasants in Westminster Township (Middlesex) Regulated Game Preserve Area, on October 21st and 29th and November 5th. Limit of three cock birds per day. Special Municipal hunting license \$1.00 per day.
- (f) Pheasants in the Regulated Game Preserve Areas in the Counties of Peel, Haldimand, Brant, Norfolk and Elgin, Metcalfe Township (Middlesex), and Amherst Island (Lennox), on October 21st and 22nd. Limit of catch three cock birds per day. Special Municipal hunting license \$1.00 per day.
- (g) Pheasants, quail and Hungarian Partridge, in the Counties of Essex (excluding Pelee Island) and Kent, on October 21st, 22nd and 29th. Limit of three cock pheasants, four quail and two Hungarian Partridge per day.
- (h) Partridge throughout the Province, (except Regulated Game Preserve Areas), from October 10th to 15th inclusive, and from November 5th to 10th inclusive. Limit of five birds per day and not more than fifteen during the two periods specified.
- Black and grey squirrel throughout the Province, on October 21st and 22nd. Limit of four per day.

#### FUR BEARERS

Conditions as they apply to fur-bearing animals throughout the Province are set forth in the following references, as summarized from reports of members of the Field Service Staff:—

**BEAVER:**—This species has enjoyed the protection of an entire close season with resulting improvement in many sections, particularly in the northern portion of the Province.

FISHER:—This animal as a species is extremely scarce, and the number trapped in any one season is very limited.

FOX:—There are indications that fox continues to be quite plentiful in many sections and while the figures contained in the following table show a decrease, this may possibly be due to the fact that prices are not sufficient to warrant the trapper taking these animals at this time.

LYNX:—This species is undoubtedly becoming extremely scarce throughout. Reports do not refer to improvement anywhere.

MARTEN:—Also very scarce. As in the case of lynx there are no reports of improvement.

MINK:—These animals are becoming quite scarce in the southern counties. In Northern Ontario conditions remained about usual with some slight improvement in scattered and widely separated areas.

MUSKRAT:—Reports are to the effect that there are many sections in the Province where conditions are favourable and as a result this species was fairly plentiful. It will be noted that there was an increase in the number of these animals which were trapped during the open season in the year under review, but there is no doubt this species will continue to require the protection which has been provided in more recent years.

OTTER:—This species is very scarce in practically every section of Ontario. The annual catch has remained fairly steady, and generally speaking they are available only in Northern Ontario.

RACCOON:—There was quite a noticeable decrease in the catch of raccoon during the open season which prevailed in 1938, though reports indicate that conditions affecting this species remained fairly normal. These animals are found only in the southern counties.

SKUNK:—Reported to be quite plentiful in practically every section of Southern Ontario, though there are a few sections in the north in which they are not so numerous and while the catch during the year shows a large increase, there is no doubt the prices paid for the pelts discourages the average trapper from making any special effort to take these animals.

WEASEL:—Except in southwestern counties reported to be fairly plentiful. While there was an increased catch in 1938-39, the value of the pelt to the trapper is not sufficient to warrant any particular activity for the taking of these animals.

The following comparative table shows the numbers of pelts of various species of fur-bearing animals which were exported from and dressed within the Province, during the year under review as well as in the three years immediately preceding:—

	1935-36	1936-37	1937-38	1938-39
Bear	411	476	496	363
Beaver	6,785	238	235	1,366
Fisher	2,137	2,117	1,463	1,467
Fox (cross)	5,424	4,156	2,426	2,164
Fox (red)	37,044	35,232	24,912	22,366
Fox (silver or black)	500	360	201	131
Fox (white)	883	17	47	142
Lynx	2,642	2,081	1,284	785
Marten	1,282	1,464	1,709	2,074
Mink	47,057	33,930	22,766	25,111
Muskrat	398,043	370,239	343,972	508,893
Otter	3,701	3,779	3,737	3,764
Raccoon	13,259	14,243	13,194	9,493
Skunk	50,747	87,950	61,576	89,100
Weasel	42,643	78,643	79,853	93,488
Wolverine	4	2	5	3

Information compiled in the Department shows that these furs were worth to the trapper the sum of \$1,168,409.40 and while this figure is slightly more than \$200,000.00 in excess of a similar compilation for the previous year, the increase is largely attributable to the fact that the catch of muskrats in 1938-39 exceeded by 165,000 the catch in 1937-38.

It is again necessary to state that present restrictions which are provided for the protection of the more desirable fur-bearing animals are essential for the maintenance and development of existing conditions which apply.

The fur farmer is gradually supplying the trade with certain classes of pelts which are becoming scarce in the wild, and in this connection the following statistics are supplied in the matter of the product of licensed fur farms which were marketed during the year: Cross fox pelts to the number of 293 were disposed of, 258 of which were exported and 35 dressed in the Province, the value of which was \$4,058.05; silver and black fox numbering 38,234 were disposed of, 30,963 exported and 7,271 dressed in the Province, all of which were valued at \$658,770.82; and 35,918 mink

were disposed of, of which 35,491 were exported and 427 dressed within the Province, all of which were worth \$280,519.58 to the fur farmers. Thus the entire fur production within the Province produced the sum of \$2,111,757.85 for trappers and licensed fur farmers. The furs above mentioned, and which were produced on fur farms were not subject to the payment of royalty in accordance with the exemption provided in the Game and Fisheries Act.

#### FUR FARMING

During the year 1,791 fur farmers' licenses were issued, an increase of 255 or more than sixteen percent, the largest annual increase for ten years. These farms may be classified to show 837 as fox farms, 708 as mink farms, 202 mixed farms, (principally fox and mink) and 44 miscellaneous farms.

The subjoined comparative table shows the total breeding stock retained on these licensed premises as at the first day of January in each of the four years enumerated:—

	1936	1937	1938	1939
Beaver	70	21	25	2
Fisher	16	20	16	19
Fox (cross)	367	257	235	197
Fox (red)		207	140	120
Fox (silver or black)		23,869	24.848	22,923
Fox (blue)		0	0	98
Lynx		2	2	2
Mink	12,332	15,539	21,982	30,378
Muskrat	375	351	302	267
Raccoon	524	358	351	284
Skunk	3	5	9	6
Bear	21	15	15	15
Marten	4	4	11	15

From the foregoing statistical table it will be observed that silver fox and mink represent the greater proportion of the operations thus carried on, while of these mink is rapidly assuming a role of major importance.

The general location of these fur farms is shown in the following table:—

County or District	Number of Farms
Algoma	35
Brant	10
Bruce	69
Carleton	44
Cochrane	13
Dufferin	8
Dundas	5
Durham	
Elgin	11
Essex	9
Frontenac	47
Glengarry	5
Grenville	
Grey	125

County or District	Number	of	Farms
Haldimand		27	
Haliburton		1	
Halton		$^{24}$	
Hastings		20	
Huron		73	
Kenora		30	
Kent		22	
Lambton		28	
Lanark		111	
Leeds		50	
Lennox & Addington		1	
Lincoln		4	
Manitoulin		67	
Muskoka		36	
Middlesex		47	
Nipissing		18	
Norfolk		34	
Northumberland		8	
Ontario		44	
Oxford		33	
Parry Sound		24	
Patricia		3	
Peel		15	
Perth		57	
Peterborough		10	
Prescott		$\frac{12}{2}$	
Prince Edward		7	
Rainy River		31	
Renfrew		93	
Russell		9	
Simcoe Stormont		102	
		11	
Sudbury		13 11	
Thunder Bay		71	
Victoria		21	
Waterloo		53	
Welland		13	
Wellington		34	
Wentworth		18	
York		97	
TOTAL			
Total	-1	701	

#### CROWN GAME PRESERVES

During the year an important addition was made to the game preserves of the Province by the establishment of a waterfowl sanctuary at Hannah Bay in the James Bay District.

This refuge embraces one of the finest nesting and feeding grounds in the district, and will prevent undue destruction at the source of supply. It has an area of some seventy square miles and extends south from the line projected from East Point on Hannah Bay to the Ontario-Quebec Interprovincial boundary, and north of a line projected from the south bank of the Mississikabe River where it enters Hannah Bay to the Quebec boundary.

A change was made in the boundaries of the Dumfries Game Preserve by withdrawing therefrom all that portion of South Dumfries Township located within the area. This was made desirable by the fact that the whole township of South Dumfries was established as a Regulated Game Preserve Area.

At the same time a small Crown Game Preserve was set up within the Township of South Dumfries.

The designation,	location	and	approximate	size	of	the	areas	are	as	follows:-
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DESIGNATION	COUNTY	EXTENT	IN ACRES
Hannah Bay Waterfowl Sanctuary xDumfries Game Preserve South Dumfries Crown Game Preserve	Cochrane District Waterloo Brant	44,800 14,000 1,200	approx.

x Reduced in size.

#### REGULATED GAME PRESERVE AREAS

In introducing the subject, it seems desirable to say a few words as to the reasons for the inauguration in 1937 of this system of further control in connection with hunting.

For many generations the sportsmen of the Province have been privileged through the goodwill of the landowners, to make free use of private property in their pursuit of game. It should be noted, however, that while game is a common heritage, the land which it inhabits, particularly in Southern Ontario, is mostly privately owned. To reduce the game to possession, the hunter must have the goodwill of the landowner, failing which, a spirit of antagonism is set up between the two which results in the cancellation of the privileges of entering upon the lands to hunt game. Recognizing this fact, and feeling that any plan which would have the effect of eliminating the grievances of the farmer through more rigid control of the hunter would be in the best interests of the sport, the Department formulated a plan for the establishment of regulated shooting areas in certain Townships.

To better understand the conditions which apply, it should be noted that in most of these areas the available hunting consists of upland game birds, rabbits and ducks. The latter two are fairly plentiful and provide most of the hunting. For many years the Department has been endeavouring to stock suitable areas of the Province with English Ringneck Pheasants and although the results in certain counties were sufficiently successful to warrant open seasons, in others development was somewhat slow. Most of these latter areas never were opened to pheasant hunting and the good sportsman refrained from molesting the birds.

The opening of a short pheasant season in a few districts such as the Niagara Peninsula also resulted in a large influx of hunters to these areas. A congestion of hunters in any district leads to many complications and much unfavourable publicity, and in any case, where facilities are limited and many desire to take part, the result is usually unsatisfactory.

Another situation which frequently created a great deal of annoyance to rural residents was the heavy influx of hunters from urban centres who literally swept over the countryside on jack rabbit drives. These drives were not always well conducted or carried out with a proper regard for the property rights of the farmer. As a result friction sprang up and bad feeling ensued.

All of these factors were taken into consideration in devising the scheme of Township Regulated Shooting Areas.

What are the advantages of such regulated areas? In the first place, the control exercised through limiting the number of non-residents who may hunt in the area, and the protection afforded the farmer, as well as the wild life, through the closing of the area to all hunting except during a small portion of the year, has brought about a better spirit of co-operation between the farmer and the sportsman. The former is willing to open his lands to such reasonable demands, and the latter has reasonable assurance that when he has bought a license he will not be embarrassed by being ordered off the land, unless it is privately posted against trespass, and that through the extensive planting of birds within the area he will be reasonably sure of at least the opportunity of obtaining some game.

Reports received by the Department from Municipalities which have had the opportunity of trying out the scheme are unanimous in designating it a success.

This experiment in controlled areas for hunting, particularly in regard to pheasants, received a great deal of publicity. Some fifty townships were involved in 1938 and in order that there might be sufficient pheasants to justify an open season, the Department distributed within the regulated areas close to 16,000 of these birds in such proportions as the size of the area warranted. Here it should be noted that the birds were raised or purchased for the purpose of providing a shoot, by means of funds supplied by the sportsman himself in the form of licenses of one kind or another. The pheasants released in each township, added to the existing natural stock, created a supply sufficient to warrant an open season and give the hunter reasonable assurance of good sport.

For the benefit of those who may be under the impression that such extensive shooting would probably result in near extinction of the species it is pointed out that under the conditions involved the birds should become more numerous than ever before. To appreciate this contention it is necessary to remember that the pheasants released by the Department were in almost equal proportions in so far as sex is concerned. During the open season only cock birds were included in the bag limit, which left the hen birds, amounting to fifty per cent of the additional stocking, for breeding purposes.

The pheasant is a prolific breeder, each nest consisting of from fifteen to twenty or more eggs, and two hatches per year being quite common. Obviously, therefore, if suitable habitat is available the stock will replenish itself, despite the toll of the hunter during a brief open season.

In view of all the facts, as disclosed by these reports, it is apparent that regulated shoots can be organized without in any way providing a menace to life or property or seriously interfering with the development of the species concerned. It is essentially a matter of co-operation. In this respect the Department acknowledges with pleasure the splendid co-operation of the municipal authorities, the landowners and the sportsmen in making the scheme an unqualified success from the standpoint of order, good will and recreational pleasure.

The following is a schedule of the Townships which were included in this scheme of Regulated Game Preserve Areas, during 1938:—

The Townships of Markham, King, East Gwillimbury and Scarborough in the County of York.

The Townships of Caledon and Chinguacousy in the County of Peel.

The Townships of Nelson and Trafalgar in the County of Halton,

The Townships of Ancaster, Barton, Beverley, Binbrook, East Flamboro and Saltfleet in the County of Wentworth.

The Townships of Caistor, Clinton, Gainsboro, Grantham, Louth, Niagara, North Grimsby and South Grimsby in the County of Lincoln.

The Townships of Bertie, Humberstone, Willoughby, Pelham, Thorold, Crowland, Wainfleet and Stamford in the County of Welland.

The Townships of Canboro, Dunn, North Cayuga, Oneida, Rainham, Seneca, South Cayuga, Walpole, Moulton and Sherbrooke in the County of Haldimand.

The Townships of Onondaga and South Dumfries in the County of Brant.

The Townships of Townsend and Windham in the County of Norfolk.

The Township of Dereham in the County of Oxford.

The Townships of Bayham and South Dorchester in the County of Elgin.

The Township of Metcalfe and a portion of the Township of Westminster in the County of Middlesex.

#### WOLF BOUNTIES

The following is a comparative table of condensed wolf bounty statistics for the current fiscal year and the three years preceding:—

Period	Timber	Brush	Pups	Total	Bounty & Expenses
For year ending Mar. 31, 1936.	1,159	1,713	33	2,905	42,399.89
For year ending Mar. 31, 1937.	1,090	1,197	31	2,318	33,360.63
For year ending Mar. 31, 1938.	1,022	837	30	1,889	27,474.24
For year ending Mar. 31, 1939.	1,031	723	41	1,795	25,357.00

During the year 1,341 applications for wolf bounty were considered in respect of some 1,837 wolves. Bounty was paid on 1,311 of these claims representing 1,795 wolves as enumerated in the preceding table, while the claims for bounty of twenty-seven applicants involving some forty-two supposed wolf pelts were rejected.

The payment of bounty under the provisions of the Wolf Bounty Act continued at basic rates of \$15.00 for adult wolves and \$5.00 for pups under the age of three months.

The following table sets forth in detail the sources of origin of the various pelts for which application for bounty was made:—

ANALYSIS OF	APPLICATIONS	FOR	WOLF	BOUNTY
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County or District	Number of Timber	Number of Brush	Number of Pups	Total Pelts
Algoma		110	4	234
Bruce	20	13		33
Carleton		4	• • • •	4
Cochrane	28	4		32
Essex		1		1
Frontenac	2	4	7	13
Grey		5		5
Haldimand		1		1
Hastings	11	1_	9	21
Haliburton		-(12)		12
Kenora	274	123		397
Lambton		2		2
Lanark		1		1
Lennox & Addington	4	3		7
Manitoulin	18	79	9	106
Muskoka	34	3		37
Nipissing	56	21		77
Norfolk		5		5
Northumberland		1		1
Ontario		Ī		2
Parry Sound	51	4		55
Patricia	42	13		55
Peterborough	5			5
Rainy River	125	153		278
Renfrew	31	1		32
Simcoe	4	1	10	15
Sudbury	63	$9\overline{1}$		154
remiskaming		8		10
Thunder Bay	141	79	10	230
Victoria	3	4		7
Welland		4		4
York		i		î
	1,047	741	49	1,837
	-,511	• • • •	10	2,001

Total expenditures which were incurred in the administration of the Wolf Bounty Act were the sum of \$25,435.24, of which, as has been previously stated, the sum of \$25,357.00 was actually paid out as bounty, and details of which payments are set forth in the following statistical table:—

Brush Wolves	50	@ \$ 6.00\$ 300.00	
	673	@ \$15.00\$10,095.00	
	723		\$10,395.00
Timber Wolves	73	@ \$ 6.00\$ 438.00	
	958	@ \$15.00\$14,370.00	
	1,031		\$14,808.00
Pups	17	@ \$ 2.00\$ 34.00	
	24	@ \$ 5.00\$ 120.00	
0	41		\$ 154.00
TOTAL	1.795		\$25,357.00

In respect to wolves killed in a County, bounty is paid by the County Treasurer, and forty per cent of the amount is rebated to the Counties by the Provincial Treasurer. In the Northern Districts the total amount of bounty is paid by the Province.

It is of interest to note that 59% of the wolves killed in 1938-39 were classified as timber wolves, whereas the ratio was 55% in 1937-38, 48% in 1936-37 and 40% in 1935-36.

#### GENERAL

#### TOURIST OUTFITTERS:

The following is an analysis of the distribution by Districts of the camps of tourist outfitters licensed to operate in Ontario during the year:—

District	Licenses					
District	Non-Resident	Resident	Tota			
Algoma	7	73	80			
Cochrane	0	3	3			
Kenora	17	97	114			
Manitoulin	3	43	46			
Nipissing	9	88	97			
Parry Sound	5	102	107			
Patricia	0	3	3			
Rainy River	4	23	27			
Renfrew	0	9	9			
Sudbury	2	60	62			
Temiskaming	0	3	3			
Thunder Bay	4	20	24			
Total	51	524	575			

#### DEPARTMENTAL BULLETIN:

With reference to the publication of the "Bulletin" and the purpose for which it is prepared and distributed we quote the following extract from the issue of April, 1938:—

"With this number we conclude volume two of the Bulletin, being the first of the series in its present form. During the year we have attempted to keep before us the fact that the Bulletin has a special mission to perform, viz, the stimulation of interest in the conservation of our wild life natural resources, and the education of the public in the wise use of this valuable heritage. No attempt has been made to usurp the place of the sporting magazines, which are doing a valuable work along the same line, nor to enter the field of romance and story in connection with the recreational pleasures of hunting and fishing. It has been our object to present as simply, and as pithily as possible, the many difficult and complex problems with which the conservation of our wild life is bound up; to give in everyday language brief facts concerning the life history of many species of fish and game; to point out the responsibility of the individual in connection with the protection of our natural resources, and to encourage the work of the Sportsmen's Protective Associations and all other organized effort which has for its object the Restoration, Preservation and Perpetuation of our wild life. The activities of the Department have not been forgotten and we hope that the information which is published from time to time will serve to keep the sportsmen informed as to what is being done in their interest.

And now, with the experience of the first two volumes behind us we would like to expand our opportunities for effective service by a closer contact with sportsmen and sportsmen's associations. We therefore invite our readers to assist us by contributing such personal experiences while hunting or fishing as might help us to a better understanding of the relationship which exists between birds, beasts, fish and plant life; or other ideas of non-controversial nature along conservational lines—obviously matters of Departmental policy cannot be discussed in the

Bulletin. Association Secretaries might also keep us informed of their activities so that proper reference could be made.

We acknowledge our indebtedness to the press for the additional publicity given to many of the atricles appearing in the Bulletin, and hope that Editors will feel free to use any material they may find suitable for republication.

As a result of the educational and publicity work which is being carried on by sportsmen's organizations, nature clubs, the press, sporting magazines and the Department, the public is to-day more conservation-minded than ever before and this fact augurs well for the future of the movement. We believe that more real success can be attained through education than through prosecution, although human nature is such that enforcement will always be essential for protective purposes. With this in mind we pass from the old to the new, conscious of our shortcomings, but with the hope that our efforts to stimulate interest have not been entirely in vain."

#### GAME AND FISHERIES ACT:-

The present laws and regulations are a most important part of the general programme for the conservation of our fish and game resources. They are the result of practical experience plus the biological knowledge acquired after years of research. They are restrictive only in so far as is necessary to ensure proper use and a continuous supply. Close seasons are provided in the interest of natural reproduction and are determined from a study of the life history of the various species. Bag limits and limits of size are intended to ensure an equitable distribution of the available resources. Obviously limiting the take helps prevent waste.

In every walk of life there are certain laws and conventions which govern, and these we must know and observe or suffer the consequences. The observance of the laws which regulate the taking of fish and game is of major importance in securing for every citizen the opportunity to enjoy the recreational pleasures which wild life affords. It is the duty of every sportsman, therefore, to make himself familiar with these laws and, having done so, see that his actions afield are in keeping therewith. Co-operation in this regard will help to conserve a valuable heritage.

What impresses one at meetings of the Legislative Fish and Game Committee is the evident sincerity in the cause of wild life conservation of the delegates who attend to present recommendations, and the entire absence of requests that might be termed selfish or shortsighted. The success of the conservation movement lies in the development of this spirit of co-operation through individual and organized effort, and if the tone of the representations which are made before this Committee is a reflection of the attitude of the public, then a new conception of individual responsibility for the protection and restoration of our game and fish resources has been born, and this will undoubtedly be an important factor in providing and maintaining better hunting and fishing.

- (a) Rescinding the definition of the word "monitor," as used by duck hunters.
- (b) Authorizing the issue of special hunting licenses by Municipal authorities to be valid in Regulated Game Preserve Areas.
- (c) Providing an entire close season for moose in portions of Sudbury, Nipissing and Temiskaming, in the southeastern part of Northern Ontario, and in Rainy River and that part of Kenora south of the main transcontinental line of the Canadian National Railway in the southwestern part of Northern Ontario.

- (d) Providing that the open season for muskrat be annually established by Regulation.
- (e) Changes in the provisions which govern the operation and licensing of Tourist Outfitter's Camps.
- (f) Providing that non-resident hunters shall engage the services of licensed guides while hunting deer in the Districts of Rainy River and Kenora.
- (g) Providing a limit of catch on cotton tail rabbits in the Counties of Essex and Kent, and prohibiting the purchase and sale of these animals in these two Counties.
- (h) Permitting the use of automatic shotguns by hunters when such firearms are permanently plugged to hold not more than three shells.
- Mining camps included among the places where it is unlawful to possess or carry firearms.
- (j) Permitting non-resident anglers to export the lawful catch of two days' fishing of all game fish species. (One day's catch only in the case of Maskinonge.)

Amendments to the Fisheries Regulations adopted during the year include the following provisions:—

- (a) Rescinding the definition of the term "one day."
- (b) Including Hog's Back Dam, on the Ottawa River, among the waters in which it is prohibited to use spears and dip nets to take coarse fish during April and May.
- (c) Changes in the open seasons for Maskinonge, Pickerel and Whitefish.
- (d) Changes in the special regulation which applies to fishing in the waters of Victoria, Peterborough, Northumberland and Durham.

## ENFORCEMENT SERVICE

Years ago the enforcement of laws in connection with hunting and fishing was almost negligible. There were few Game Wardens, and those who held the appointments were paid so poorly that they could not devote their full time to the work, and found it more advantageous to close their eyes to much that took place. As a result of this condition, law observance was at a low ebb and wild life suffered thereby. Gradually, however, an efficient and effective protective service has been built up and is doing splendid work in connection with the enforcement of the Game and Fisheries Act.

The work of the Overseer, or Game Warden, is beset with many difficulties. In the first place, he must of necessity cover an extensive territory, much of it off the beaten track; and in the second place, he is faced with an attitude on the part of a section of the public which implies a lack of any serious moral qualms over non-observance of the Game and Fisheries Laws.

The Game Warden in invariably courteous in carrying out his duties, but his task would be much easier if all those who hunt and fish would recognize that the laws are intended to ensure the greatest pleasure for the greatest number and that to disregard the rules of the game is to deprive posterity of its rightful share.

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At the present time there are some ninety permanent Wardens devoting their full time to enforcement work. The services of this field staff are augmented by the assistance of the Provincial Police Force, as well as certain seasonal officers who are employed for varying periods in order to provide adequate patrol service along certain waters during the spring and fall fish spawning periods, as well as enforcement work during the various hunting seasons.

We are happy to report that the general body of sportsmen never were so conservation-minded as they are to-day. As proof of this we would point to the fact that in 1938 more than 1,500 sportsmen voluntarily offered their services to, and were accepted by the Department as Deputy Game Wardens, in addition to 633 who were provided with such appointments at the request of Municipal organizations to assist in enforcing the regulations which govern in the Townships created as Regulated Game Preserve Areas. These men are clothed with all the authority necessary to enforce observance of the Act. It is obvious that the practical support and moral effect of this army of voluntary workers is of very great importance in preventing abuses of the privileges enjoyed by sportsmen.

During 1938-39 there were some 1,878 cases in which offenders against provisions of the Game and Fisheries Act and Regulations were apprehended by Game and Fisheries Overseers and others authorized to act in the way of securing observance of these provisions, and in which cases various articles of hunting, trapping and fishing equipment and the product thereof were confiscated at the time of apprehension. A compilation of the various reports of seizure submitted by the officers concerned shows that such action was provided by Game and Fisheries Overseers in 1,638 of these cases, by members of the Ontario Provincial Police Force in 78 cases, by Deputy Game and Fishery Wardens in 69 cases, and in the remaining 93 cases seizures were made by co-operative action of Overseers, Provincial Police and Deputy Game Wardens.

A condensed summary of the articles confiscated shows the following:

Live animalsin	32	cases
Birds, game animals and meatin	226	cases
Firearms and ammunitionin	760	cases
Fishin	275	cases
Nets and Fishing equipmentin	327	cases
Angling equipmentin	114	cases
Pelts and hidesin		
Traps and equipmentin	132	${\it cases}$
Water craftin	51	${\it cases}$
Motor Vehiclesin	17	cases
Lightsin	42	${\it cases}$
Spearsin	63	cases
Miscellaneous articlesin	56	${\it cases}$

This total of 2,382 does not correspond with the actual number of seizures, viz:—1,878 by reason of various entries on some seizures. For instance an irresponsible hunter might lose a gun and some birds or game animals, a trapper operating contrary to the regulations some traps and pelts, an indiscreet angler his fishing rod and some speckled trout or bass, while there would be instances where spears, lights and fish would be involved in each case, as well as other combinations which would account for the apparent discrepancy.

Included among the pelts confiscated were 947 beaver, 2 fisher, 89 fox, 8 marten, 32 mink, 501 muskrat, 16 otter, 68 raccoon and 304 weasel.

The following comments, extracted from issues of the Bulletin, concerning the sales of confiscated articles and furs, will be of interest.

Those who have any doubts as to the efficiency of the work which is being done to curb law breaking, or the need for eternal vigilance to protect a common heritage, would do well to arrange to visit one of the sales of confiscated articles conducted by the Department and, in viewing the multiplicity of weapons seized for illegal use, read the story of why conservation is necessary for the perpetuation of wild life. The rows of firearms stacked so menacingly around the room remind one forcibly that their late owners failed to play the game, and in doing so not only broke the law but menaced the rights of others. The weapons include almost every make and calibre of gun, from the toy .22 to the deadly automatic and the modern "pump." Each of them has a story of its own, a story of deliberate law breaking and swift retribution.

There are those of ancient vintage which attracted attention, principally because they lack the refinements of the modern firearm, or because they conjure up memories which are probably better forgotten.

There is a long line of those efficient little nomads, the .22. They run the gamut of make and style, from the cheap little toy to the high-powered repeater. Most of them are in good shape, but there are a few whose general appearance shows a lack of care.

In addition to the firearms there is a miscellaneous collection of fishing rods, reels, lines, baits, minnow pails, axes, flashlights, lanterns, haversacks and traps. As showing the extent of the illegal destruction which takes place and as a pleasing commentary on the work of the protective officers, we would add that there were some 940 traps in the various lots offered in the sale held in September 1938.

The following is a summary of the confiscated articles offered at this sale. Shotguns 67, rifles 45, .22 rifles 106, fishing poles 39, miscellaneous items 34, traps 940. When it is remembered that in almost every case a fine or alternative gaol sentence was imposed, in addition to the loss occasioned by the confiscation of equipment, it should be a stern warning that "the way of the transgressor is hard!"

For several days in February, 1939, the Department vault and storage room resembled a fur warehouse. Exposed for the inspection of buyers was the largest collection of confiscated pelts the Department has ever handled in any one year. This collection included the following pelts:—

Beaver 993	Mink 35
Muskrats 778	Weasel 96
Fisher 3	Squirrel 87
Lynx 2	Raccoon 62
Otter 14	Skunk 2
Fox (cross) 9	Wolves 3
Marten 14	Fox (red)

In addition to this record assortment of confiscated furs there was a collection of silver fox pelts together with some red fox and mink from the Fur Farm, and a small mixed group taken in Provincial Parks and included by the Department of Lands and Forests.

For the benefit of prospective buyers the furs were open to inspection for four days, and during that period they were constantly being turned over, examined and appraised by keen-eyed, shrewd buyers. Bidding for the various lots was in the form of sealed tender, so that those interested had to go over them carefully and determine finally what they were worth to them in a competitive market. The result of the sale surpassed the expectations of the Department and added considerably to the annual revenue. For example, the 993 beaver pelts brought a total of \$14,535.

while the balance of the seized furs sold for \$1,700.85. The confiscated furs therefore brought a total of \$16,235.85.

Around this brief mention of the fur sale is a story of never-ending vigilance on the part of the field force; that silent but effective group of Overseers whose mission is to enforce the Game and Fisheries Laws and see that the wild life resources of the Province are protected from the pilfering propensities of the poacher. A glance at the summary of confiscated pelts given herein will convince the most indifferent that there is a real necessity for such keen watchfulness. Take the case of the beaver for example. These animals were destroyed during a year when there was a completely closed season on beaver, and in addition a large percentage of them had been purchased from poachers by unscrupulous fur buyers, who, in turn, would be forced to dispose of them by further dishonest manipulations. The irony of these extensive seizures of beaver pelts is that the season was closed because it was felt that the animals required protection against trapping for a period, in order to increase their numbers, and the good trapper, realizing that such a measure was in his own interest, respected the restriction. The poacher, on the other hand, apparently found in the restriction an opportunity to enlarge his activities, aided and abetted by certain irresponsible buyers.

As showing the widespread nature of these illegal practices we mention the fact that 80 beaver came from the Patricia District; 41 from Algoma; 17 from Renfrew and 51 were seized in Toronto. The balance in small numbers came from all over the Province.

The same general remarks apply with regard to the other furs. They were seized for a variety of reasons, but in all cases breaches of the act were involved.

It is but fair to add that, despite this tale of unlawful taking, the score is not all bad. It has been noted, for example, that some 32 beaver accidentally caught in traps set for other legal fur, were forwarded to the Department for disposal, by the trappers themselves.

Notwithstanding the fact that the general public is becoming more informed on the value of wild life and the necessity for ensuring its conservation the poacher and the illegal taker are still in our midst.

As a result of the vigilance of protective officers we find that during the year under review there were some 1709 cases of violations prosecuted through the Courts, and in 1581 of which cases convictions were registered and fines collected totalling in all the record sum of \$26,245.40.

An analysis of these cases shows that Game and Fisheries Overseers were responsible for the charges in 1510 instances, members of the Provincial Police Force in 98 cases, Deputy Game Wardens in 21 cases; while co-operative action was responsible in 80 cases. Particulars of some of the more glaring cases which were prosecuted through the year are as follows:

- (a) Illegal trafficking in partridge, in the County of Carleton, convicted and fined \$1,000 and costs;
- (b) Illegal possession, sale and purchase of partridge, in the County of Carleton, three persons involved, convictions registered in all cases, total fines of \$400 and costs;
- (c) Illegal trafficking in pheasants, in the County of Middlesex, 34 birds seized, convicted and fined \$340 and costs;
- (d) Unlawful killing of Hungarian partridge, in the County of Wentworth, 10 birds seized, convicted and fined \$100 an costs;

- (e) Possession of more than legal catch of pheasants, on Pelee Island, 16 birds seized, convicted and fined \$160 and costs;
- (f) Taking excessive numbers of undersized speckled trout, in the District of Parry Sound, five persons apprehended,—convicted, penalties in all totalled \$123.75;
- (g) Taking excessive numbers of undersized speckled trout, in the County of Renfrew, three persons apprehended,—convicted, total penalties in each of the three cases \$126.75; and
- (h) Illegal possession of beaver, involving a licensed fur dealer, in Northern Ontario,—23 charges, convicted and fined a total of \$16,395 or in default of payment to be confined for two years and six months, less one day in a Reformatory. In addition to this sentence there were seized from the offender, 444 beaver, 10 otter, 7 marten, 1 fisher, 2 mink, 2 cross fox and 31 muskrat.

We ask the sportsmen to notice two things in connection with these various offences. The first is that no stone is being left unturned by the Department to bring the law-breakers to justice. The second is that illegal depredations, if unchecked, may assume extensive proportions; as is evidenced by details of the cases above noted.

#### THE FISH CULTURE BRANCH

The vast waters of our Province, among the finest in the world, constitute our most widely distributed recreational agencies, and their importance from the recreational and health standpoints is of immeasurable value to our people. This attraction lies in the entrancing beauty of our lakes and streams, and the excellent fishing which they provide. The development and maintenance of these game fishing interests in a practical manner is one of the primary functions of the Department.

Ontario's commercial fishing industry is also of considerable economic importance, and in point of annual marketed value of fresh water fish, Ontario stands first among the Provinces. In appendices 3 and 4, information pertaining to this valuable enterprise is compiled for reference purposes.

In its wider and truer meaning fish culture is closely linked to aquatic biology, physics, commercial fishing and angling, and it is difficult to give a comprehensive definition of the term. However, for all practical purposes it may be said that a progressive fish culturist is one who measures his success in terms of the good fishing resulting from his labours, and in view of the results being achieved in this connection fish culturists should be very optimistic about future possibilities in this field.

During the regular open seasons there is a tremendous drain on the fish supply, particularly in the more populated areas where waters are more readily accessible. The menace of over-fishing which is one of the major causes of depletion has become more seriously apparent since the development of the automobile and motor boat; these two useful contrivances have made it possible for a much larger percentage of the population to go fishing. In view of these conditions, a practical restocking policy is followed by such regulations and practical measures as are consistent with the conservation of the fisheries. The eminently reasonable aim of fish laws is to ensure a plentiful supply of commercial and game-fish to future generations of Canadians.

Conservation means wise use. Fish do not grow by magic and in order to obtain larger and better fish, they must be permitted to grow and reproduce normally;

nature is wonderfully endowed with recuperative powers and, if given a chance, it is surprising how quickly fish will multiply under properly balanced conditions of food and shelter. On the other hand, if a suitable number of adults is not left to reproduce we should not be surprised to find an increase of undesirable species. It is wise for fishermen to remember that a body of water produces a definite number of adult fish, depending on the food, natural enemies and possibilities of reproduction. Fishermen generally are beginning to realize the importance of this fundamental factor and many are content with the minimum, rather than the maximum creel limit.

Within the compass of this report the salient features of the progress made during the year in connection with fish cultural practice are set forth.

#### HATCHERIES AND REARING STATIONS

During the year the Department operated twenty-six hatcheries and rearing stations. The actual number of hatcheries operated was twenty; trout rearing stations, fifteen: and bass rearing stations, five.

New and additional facilities for hatching and rearing fish during the fiscal year 1938-39 were provided for in a very satisfactory manner as follows:

- 1. Additional raceways were constructed at the Dorion trout rearing station, Thunder Bay district, to increase the carrying capacity of the hatchery.
- 2. A trout rearing station subsidiary to the Glenora fish hatchery was operated on Waring's creek, Prince Edward county.
- 3. Two additional ponds were constructed at the Chatsworth trout rearing station and a subsidiary station was developed on Nicholson's creek, in the same vicinity.
- 4. Construction of a new trout rearing station at Hill's Lake, vicinity of Charlton, district of Temiskaming, was commenced.
- 5. Three additional bass ponds, making a total of five, were completed at Sandfield, Manitoulin Island; four of these ponds were used for wintering trout in 1938-39.
- 6. Five bass ponds and a pickerel hatchery were constructed at Skeleton lake, vicinity of Ullswater, Muskoka district; four of these ponds were used for wintering trout in 1938-39.
- 7. Three ponds were completed at Deer lake, vicinity of Havelock, Peterborough county, for the rearing of black bass, maskinonge and forage fish; a hatchery for maskinonge and pickerel was also completed at this site. Two of these ponds were used for wintering trout in 1938-39.

#### THE CULTURE AND DISTRIBUTION OF FISH

## Speckled Trout:

The policy of rearing large numbers of trout to yearling and older stages for distribution to suitable public waters which require restocking was vigorously pursued. The following comparative distribution figures show the successful results obtained and the definite progress that is being made:

rem felt or	1000	557,270
an Grande in	1937	1,167,073
and the state of	1938	2,083,538

In addition, 373,314 fingerlings were planted, slightly fewer than the number planted the previous year. The policy of planting fry and small fingerlings will be abandoned, unless a surplus is available or crowded conditions warrant distribution.

#### Brown Trout:

The Department continued the policy of rearing brown trout yearlings for restocking suitable streams in southern Ontario, and the results are most encouraging.

During the year approximately 59,600 sizeable yearlings were planted and plans are under way for increasing facilities for handling larger numbers of this species.

#### Rainbow Trout:

#### (a) Steelhead trout-

Excellent progress was made in connection with the rearing of rainbow trout fingerlings; an increased production of 205.5 per cent was obtained. In addition to this 6,727 yearling and adult rainbows were distributed.

#### (b) Kamloops trout—

The advantages to be derived from planting this variety of rainbow trout in spring fed lakes, which show similar characteristics to those inhabited by speckled trout, were set forth in the previous report of the Department.

Twenty-five thousand eight hundred fingerlings of this variety were planted during the year. As soon as a plan can be developed, a substantial number of yearlings will be planted annually in conjunction with surplus fingerlings which cannot be carried over winter. Annual egg production will depend on a domesticated breeding stock which is being developed.

#### Lake Trout:

The total distribution of eyed eggs and fry was approximately 28 per cent greater than the previous year. There was a decrease of 33 per cent in the distribution of fingerlings.

The successful collection of large numbers of lake trout eggs in the fall of the year by commercial fishermen working in conjunction with the Department's spawntaking crews, depends primarily on weather conditions. It is obvious that the technique governing the successful collection of spawn cannot be carried out in a most satisfactory manner during rough and stormy weather on the Great Lakes. Conditions of this nature existed during the spawning season of lake trout in 1938.

#### Whitefish:

There was a decrease of approximately 15.6 per cent in the distribution of whitefish fry as compared with that of the previous year; this was due to two factors, firstly the spawntaking harvest in the vicinities of Kenora and Fort Frances was greatly reduced on account of an early freeze-up, and secondly the spawning run of fish in the Bay of Quinte area, Lake Ontario, was much smaller than in previous years.

#### Herring:

The distribution of herring fry was more than nine times that of the preceding year. This distribution was due in the main to the increased collection of spawn on the Bay of Quinte area, Lake Ontario. Small collections were made on Lake Erie but, as was pointed out in the previous year's report, there are many hopeful signs of the return of the herring or cisco in Lake Erie. The reason for this may be ascribed, in part at least, to the effective legislation imposed and enforced in regard to commercial fishing in this lake. If the present population of herring in

the lake is permitted to spawn once, and preferably twice, before being taken commercially there will, undoubtedly, be a very decided increase in the production of this valuable commercial fish. As was pointed out in the introduction to this report, nature is wonderfully endowed with recuperative powers and if given a chance it is amazing what can be accomplished. Much larger collections of spawn are anticipated in succeeding years.

#### Yellow Pickerel:

There was an increased distribution of fry amounting to approximately 3 per cent over that of the previous year.

Following the usual practice approximately two million eyed eggs were handled by the Sparrow Lake hatchery, the fry being distributed over suitable areas in Sparrow lake.

#### Small-mouthed Black Bass:

Although there was a decrease of 37 per cent in the distribution of small-mouthed black bass fry, this was greatly offset by an increase of 19.7 per cent in the distribution of fingerlings.

There was also an increased distribution of yearlings and older bass, amounting to 1,840, as a result of bass harvesting from the following lakes,—Cook's lake (Thunder Bay district), Lake Charlotte (Renfrew county) and Little Gull lake (Haliburton county).

#### Large-mouthed Black Bass:

Following the practice of previous years, one pond was set apart at Mount Pleasant for the culture of large-mouthed black bass. This pond produced 57,500 fry and 8,035 fingerlings. Since this pond is only 0.64 acres in area, the production record is an excellent one.

#### Yellow Perch:

During the spawning run of the perch in the spring of the year, spawn is collected by commercial fishermen working in conjunction with our own hatchery. officers. This work is conducted at the west end of Lake Erie near Kingsville. The eggs are cultured in the hatchery in that vicinity and the resulting fry are widely distributed over natural spawning areas in the lake. This work is of the utmost importance considering the commercial value of perch fishing in Lake Erie.

The distribution of perch fry was over six times that of the previous year, due to a much larger spawning run of this desirable species in the vicinity in question.

#### Blue Pickerel:

The blue pickerel is of considerable commercial value in Lake Erie and it is desirable to supplement the work of nature in maintaining production on a proper basis. For the second season spawn was collected at the west end of Lake Erie and approximately one-half million blue pickerel fry were liberated.

#### Maskinonge:

The distribution of maskinonge fry was approximately 376.5 per cent greater than the previous year.

The difficulties attending the collection of spawn and the culture of this important species were pointed out in the previous year's report. This report also gave an outline of the work being done by New York, Wisconsin and Minnesota along similar lines. The ways and means by which the Department is undertaking to maintain this important species are,—

- 1. Restriction of bag limit and number of days' fishing.
- 2. Protection of the normal population in sanctuary areas. The report for 1936-37 contains an explanation of the purpose of such sanctuaries.
- 3. The planting of fry in suitable areas.
- 4. Further studies regarding the possibilities of rearing fry to the fingerling stage.

With reference to item 4. facilities will be provided during the next fiscal year to experiment on a proper basis with the culture of maskinonge from the fry to the fingerling stage. For this purpose, a hatchery and pond have been constructed at the outlet of Deer Lake, Belmont township, Peterborough county. The water supply is adequate and of suitable composition. A minnow pond for the production of forage fish for the growing maskinonge is also available at this site.

In addition to this, a large natural area will be set aside in the Kawartha lakes district for the purpose of studying in an experimental way the conditions required for the successful propagation of maskinonge in natural areas.

#### CLOSED WATERS

In addition to the waters already closed for the natural protection and propagation of fish, the following water areas were closed during the year, April 1, 1938, to March 31, 1939:

BERRY CREEK, tributary to Long Bay, Lake of the Woods, District of Kenora.

BLACK DUCK LAKE,

Township of Harvey, County of Peterborough.

CHEMONG LAKE (Portion)

Township of Emily, County of Victoria.

CHEMONG LAKE (Portion)

Township of Smith, County of Peterborough.

DUCK PONDS,

Township of Dummer, County of Peterborough.

GOOSE LAKE.

Township of Fenelon, County of Victoria.

GOOSE LAKE.

Townships of Fenelon and Somerville, County of Victoria.

KATCHIWANO LAKE.

Township of Smith, County of Peterborough.

LITTLE MUD LAKE (Chemong Lake)

Township of Smith, County of Peterborough.

McVICAR'S CREEK,

Within limits of city of Port Arthur, Thunder Bay District.

SEARIGHT'S BAY (North River),

Township of Belmont, County of Peterborough.

SOUTH BAY (Stony Lake),

Township of Dummer, County of Peterborough.

TAYLOR'S BAY and MUNN'S BAY (Belmont Lake),

Township of Belmont, County of Peterborough.

#### WHITEFISH, BASS and CLEAR LAKES,

Township of Humphrey, District of Parry Sound, during the period January 23, 1939, to April 30, 1939.

## REMOVAL OF COARSE FISH

Between December 16, 1938, and February 4, 1939, twenty-seven hoop nets were operated for the removal of ling from waters located as follows:

- . (a) In Leeds County—Rideau Lake, Bass Lake, Red Horse Lake, Outlet of Charleston Lake and Barker's Creek.
- (b) In Lanark County-Bennett's Lake and the Tay River.

The total number of ling taken was 3,305; the average weight of the ling was 6 pounds, making the total weight of ling removed 19,830 pounds, or approximately 10 tons.

#### BIOLOGICAL SURVEYS

Biological surveys were conducted in Thunder Bay district on Northern Light lake, located approximately twelve miles south of Moss township, on the Pigeon river, Whitefish lake (Strange township), Arrow lake, located approximately six miles south-west of Strange township, and Shikag lake, which is located about seven miles north-east of Tannin. The purpose of these studies was to determine the advisability of permitting commercial fishing on these lakes. Studies were conducted on the following waters, with a view to determining their suitability as sanctuaries for black bass, namely,—Hart lake, Stonehouse lake, Upper Rock lake, Lower Rock lake, located in the township of Storrington, Frontenac county; Crow lake (Crow's Nest lake) and Lake Opinicon, township of South Crosby, Leeds county; and a water area in the vicinity of Portland, Big Rideau lake, township of Bastard, Leeds county.

Dams on the Beaver river, township of Collingwood, Grey county, and at the outlet of West Lake, township of Hallowell, Prince Edward county, were examined with reference to the obstructions created by these dams to migratory fish, and the biological effects resulting from changing water levels in the latter instance.

Pollution surveys were conducted on a branch of the Aux Sables river, township of Usborne, Huron county; Smith creek, township of Blenheim, Oxford county, and the St. Lawrence river, vicinity of Cornwall, Stormont county.

The Ontario Fisheries Research Laboratory of the Department of Biology, University of Toronto, continued field and laboratory studies of lakes and streams in Algonquin Park during 1938-39, and the following is a concise account of this important work:

"The anglers fishing in the Park have cooperated by supplying a record of the fish which they caught. Such information is now available from a good many lakes for the last four years.

Year	1936	1937	1938	1939
Number of lakes for which anglers have reported	23	51	41	59
Number of lake trout recorded	1414	3856	3083	4681

In addition to recording the number of fish caught, the anglers also report the size of the fish and the length of time it takes to catch a given number. It was found that the length of the lake trout caught varied from a minimum of eight inches

to a maximum of thirty-six inches. In some lakes the lake trout are mostly small and in other lakes there is a preponderance of large trout, while still other lakes contain trout varying in size from small to large. The size and number of trout in a lake is related to the available food and the amount of fishing. This information which has been made available as a result of the cooperation of the anglers and the biological investigations of these lakes has made possible the carrying out of experiments of value in fish culture.

In these lakes where the food scarcity is the controlling factor arrangements are being carried out to improve the food condition by introducing small food fish. In those lakes where excessive fishing is depleting the stock of lake trout, two kinds of experiments are being undertaken. In lakes adjacent to the highway or in the vicinity of cottages trout of different sizes are being planted and the result of this stocking will be determined. Some lakes which are remote from the highway are being closed to fishing in alternate years and the improvement in fishing resulting from this closure is being measured during the years in which those lakes are open to angling.

It is most desirable to have definite information on the trout population in lakes. The particular relationship of White lake to Big Trout lake in Algonquin Park makes it possible to ascertain the trout population of White lake for at least part of the year. These two lakes are joined by a narrow channel 100 feet wide and about 12 feet deep. White lake with an area of 1040 acres and a maximum depth of 40 feet has lake trout in it during the fall, winter and spring. As it warms up during the summer, the lake trout all move out into Big Trout lake which is much deeper. In the spring and early summer of 1939 all of the lake trout moving out of White lake were captured in a fyke net, measured, and released into Big Trout lake. By July 10 all of the lake trout had moved out. There were 813 between twelve and twenty-eight inches in length, with a total weight of about 2177 pounds. Thus White lake with an area of 1040 acres supports about one lake trout of fishable size per acre or about two pounds of available lake trout per acre.

The young speckled trout in Algonquin Park waters live in the stream during the early part of their lives. Here they feed upon aquatic insects. Studies of these insect populations have given astonishingly large numbers for the production of this trout food. From May 17 to September 11, 1939, one square yard of water in a typical trout stream inhabited by trout was found to produce during the summer 550 mayflies, 700 stoneflies, 466 caddis flies and 4,400 blackflies and midges, as well as some other aquatic insects, all of which constitute excellent trout food.

Bass from some lakes and rivers in the Park have fish parasites. None of the fish parasites are injurious to man but they are unpleasant for the angler to find while cleaning the fish. A study of the distribution of these parasites has been carried out to find where they occur most abundantly. With this information at hand the danger of transferring parasites from one body of water to another can be reduced to a minimum.

A small hatchery has been established near Algonquin Park headquarters, where fish which have been raised in the rearing stations of the Ontario Department of Game and Fisheries may be held for some time and from where they may be conviently distributed to any desired water in the Park."

#### ACKNOWLEDGMENTS

The assistance and co-operation rendered during the year, particularly by Fish and Game Protective Associations and members thereof, have indeed been very

gratifying and are deeply appreciated. Such valuable cooperation encourages us in our efforts on behalf of the protection and development of the wild life natural resources of the Province, in order that those interested may continue to enjoy a participation in the privilege and healthy excerise which pursuit of the same provides.

Members of the Staff, both the inside and outside service, generally speaking, have conducted themselves and performed the duties assigned to them in the best interests of the Department and its varied activities.

All of which is respectfully submitted.

I am, Sir,

Your obedient servant,

D. J. TAYLOR,

Deputy Minister of Game and Fisheries

Toronto 2.

# APPENDIX No. 1

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS

April 1st, 1938, to March 31st, 1939

LARGE-MOUTHED BLACK FRY	BASS	Saugeen River Shouldice Lake	$9,000 \\ 10,000$
Bruce:		Eventones	
Berry's Lake	5,000	Frontenac:	
Little's Lake	5,000	Clear Lake (Kennebec)	10,000
Marl Lake	5,000	Collins Lake	5,000
Paddy's Lake	5,000	Cross Lake (Kennebec)	5,000
Seep's Lake	5,000	Little Mississagagon	5,000
Deep 5 114110 VIVIII VIVII VIVII VIVII VIVII VIVII VIVII VIVII VIVII VIVIII VIVII VIV	•	Loughborough Lake	15,000
Grey:		McClintock Lake	10,000
	5,000	Mississagagon Lake	10,000
Davis Lake	5,000	Pine Lake	5,000
Sheppard's Lake	5,000	Rideau Lake	10,000
Sheppards Lake	5,000	Schooner Lake	10,000
Haliburton:		Sharbot Lake	10,000
	= 000	Trout Lake	10,000
Round Lake	5,000	Twin Lakes	5,000
Lincoln:	9.500	Haldimand:	
Jordan Pond	2,500	Grand River	20,000
Muskoka:		Haliburton:	
Kahshe Lake	5,000	Black Lake	5,000
		Blue Hawk Lake	10,000
Norfolk:		Davis Lake	5,000
Sutton's Pond	5,000	Grass Lake	5,000
Button's Tona	0,000	Gull Lake	10.000
FINGERLINGS		Head Lake	5,000
		Hurricane Lake	5,000
Middlesex:		Kashawigamog Lake	5,000
Sydenham River	126x	Long Lake (Dysart)	5,000
		Mink Lake	10,000
Nipissing:		Misiwabi Lake	5,000
Blackwater Lake	500	Mountain Lake (Minden)	5.000
2710011111102 2111110 1111111111		Paradise Lake	5,000
Norfolk:		Pine Lake	5,000
Hunger Lake	100	Portage Lake	5.000
Little Lake	100	Unnamed lake (Lutterworth)	5,000
Teeterville Pond	$\frac{100}{210}$	West Lake	10,000
	210	Wylie's Lake	5,000
Wentworth:		TT-14	
Hamilton Bay	5,000	Halton:	
York:		Bronte River	2,500
Shadow Lake	2,025	Hastings:	
	•		F 000
xThis number includes twenty-si	ix aduits.	Crow Lake	5,000
		Crow River	5,000
SMALL-MOUTHED BLACK	BASS	Gunter Lake Little Salmon Lake	10,000
FRY			$\frac{5,000}{5,000}$
Bruce:		Moira Lake	
Arran Lake	5,000	Moira River Oak Lake	$\frac{5,000}{5,000}$
Bereford Lake Boat Lake	$10,000 \\ 10,000$	Pine Lake	$\frac{5,000}{5,000}$
Duit Lake		wadsworth Lake	5,000
Britain Lake	$\frac{5,000}{2,500}$		
Chesley Lake	5,000	Leeds:	
Cyprus Lake	2,500	Crow Lake	5,000
Gould Lake		Sand Lake	5,000
Isaac Lake	$10,000 \\ 15,000$	Troy Lake	5,000
Lake George	5,000	Whitefish Lake	5,000
Miller Lake	20,000		
Pearl Lake	5,000	Lincoln:	
Sauble River	15,000	Twelve Mile Creek	2,500
Sausic Itifici	10,000	I work mile of eer	2,000

SMALL-MOUTHED BLACK —Continued	BASS	Desbarats Lake Diamond Lake	500 500
.00%		Duborne Lake	1,000
Manitoulin:		Gordon Lake	500
Big Lake	10,000	Keichel Lake	1,000
Lake Manitou	10,000	Little Bass Lake Lost Lake	$1,000 \\ 1,000$
0007		McCarroll's Lake	500
Middlesex:		Mine Lake	500
Thames River	10,000	Moose Lake	500
PUL	•	Mud Lake	500
Muskoka:		O'Neill Lake	1,000
Bon View Lake	20,000	Pipe Lake	1,000
Bruce's Lake	10,000	Rock Lake	500
Deer Lake	10,000	Stuart Lake	1,000
Dickie Lake	10,000	Unnamed lake (U. Tp.)	1,000
Kahshe Lake	10,000	Walker Lake	1,500
Lake Muskoka	$\begin{array}{c} 30,000 \\ 10,000 \end{array}$	D	
Menominee Lake	20,000	Bruce:	
Prospect Lake	20,000	Clam Lake	1,000
Tookes Lake	10,000	Conleten	
Wood Lake	10,000	Carleton:	
fr)		Ottawa River	2,000
Norfolk:		Rideau River	2,000
Waterford's Gravel Pit Pond	10,000	Cochrane:	
		Baart's Lake	1,000
Northumberland:		Daarts Dake	1,000
Trent River	5,000	Frontenac:	
Ontonio		Canonto Lake	1,000
Ontario:		Crotch Lake (Palmerston).	1,000
Lake St. John	10,000	Crow Lake	1,000
Orford		Elbow Lake	1,000
Oxford:	10.000	Fourteen Island Lake	1,000
Thames River	10,000	Long Lake (Portland)	1,000
Peterborough:		Rock Lake (Portland)	500 500
1.00	F 000	St. George's Lake Sunday Lake	1,000
Belmont Lake	$5,000 \\ 5,000$	Bunday Dane	1,000
Dully Lake	3,000	Grenville:	
Simcoe:		Rideau River	2,000
Kempenfeldt Bay	10,000		_,-,-
Lake Couchiching	15,000	Grey:	
Little Lake (Vespra)	10,000	Lake Francis	500
Sparrow Lake	15,000		
B-02		Haliburton:	
Victoria:		Canning Lake	1,000
Balsam Lake	10,000	Koshlong Lake	750
Burnt River	5,000	Little Mud Turtle Lake	1,000
Gull River	5,000	Mountain Lake (Dysart)	750
Little Mud Turtle Lake	5,000	TT- 42	
Mud Turtle Lake	$\substack{5,000\\10,000}$	Hastings:	
Round Lake	5,000	Baptiste Lake	1,000
Silver Lake	5,000	Bass Lake	1,000
Sturgeon Lake	25,000	Lake Louis	500
		Huron:	
FINGERLINGS		Maitland River	500
Algoma:			
Alma Lake	500	Lanark:	
Appleby Lake	500	Bennett's Lake	1,000
Blind River	1,000	Black Creek	1,000
Caribou Lake	500	Christie Lake	1,000
Cummings Lake	1,000	Dalhousie Lake	$\frac{1,000}{2,000}$
Darrell Lake	1,000	mississippi dake	4,000

SMALL-MOUTHED BLACK —Continued	BASS	Balsam Lake	500 1.000
-Commucu		Bear Lake	1,000
Lanark—Continued		Beaver Lake	500
Pike Lake	1.000	Bittern Lake	500
Rideau Lake	1,500	Blackwater Lake	500
Silver Lake	500	Canoe Lake	500
		Caribou Lake	500
Leeds:		Clear Lake (Humphrey)	500
Gananoque Lake	100	Clear Lake (Patterson)	500
St. Lawrence River	100	Cole Lake	500
		Commanda Lake Crane Lake	500
Lennox-Addington:		Deer Lake (Ferrie Tp.)	500 500
Beaver Lake	. 1,000	Deer Lake (Lount Tp.)	500
Beaver Lake—south	500	Deer Lake (McKenzie Tp.)	500
Lime Lake	500	Deer Lake (Mills Tp.)	500
Long Lake	1,000	Deer Lake (Wilson Tp.)	500
White Lake	1,000	Distress River	500
M		Doe Lake	1,000
Manitoulin:	0.000	Duck Lake	500
Kagawong Lake	3,000	Eagle Lake	500
Lilly Lake	3,000	Horseshoe Lake	500
Linda Lake	$\frac{3,000}{2,000}$	Island Lake	500
Loon Lake	2,000	Jack Lake	500
South Bay	2,000	Key River Lake of Many Islands	500 500
Bouth Day	2,000	Lennon's Lake	500
Muskoka:		Little Long Lake	1,000
Burns Lake	1,000	Loch Urn Lake	500
Henshaw Lake	500	Long Lake (Ferguson Tp.) .	500
Indian River	500	Long Lake (Wilson Tp.)	500
Lake Joseph	500	Magnetawan River	1,000
Lake Rosseau	500	Manson Lake	500
MacKay's Lake	2,000	Mary Jane Lake	500
Musquash River	500	McVeety Lake	500
North Lake	1,000	Neighick Lake	500
Silver Lake	500	Pickerel Lake	500
Six Mile Lake Sparrow Lake	$1,000 \\ 1,000$	Pickerel River	500
Torrance Lake	1,000	Pigeon Lake	1,000
Torrance Bane	1,000	Pine Lake	500
Nipissing:		Portage Lake	500
Bear and Poplar Lakes	500	Rankin Lake	500
Cache Lake	500	Restoule Lake	500
Champlain Lake	500	Rosseau Lake	1,000
Finlayson Lake	500	Ruth Lake	500
Herridge Lake	1,000	Sea Gull Lake	500
Lake Nipissing	500	Shawanaga Lake	500
Lake Nosbonsing	500	Shebeshekong Lake	500
Lake Timagami	500	Shoal Lake	500
Martin River	500 500	Snakeskin Lake	500
Moore Lake Shanty Bay (Lake Nipissing)	500 500	Spring Lake	500
Talon Lake	2.000	Star Lake	500
Tomiko Lake	500	Stormy Lake	500
Trout Lake	500	Toad Lake	500
Turtle Lake	500	Trout Lake (Humphrey)	500
Wilson Lake	500	Turtle Lake	500
		Whitestone Lake	500
Northumberland:		Wilson Lake	500
Rice Lake	1,200	Wolf Lake	500
- a		Wolf River	500
Parry Sound:		Woodcock Lake	500
Ahmic Lake	500	Pool ··	
Arthur Lake	500	Peel:	E00
Bain Lake	500	Credit River	500

SMALL-MOUTHED BLACK BA	ASS	Brant:	
—Continued		Gravel Pit Pond at Scotland	100
Prince Edward:		Frontenac:	
Consecon Lake	500	Bob's Lake	100
Roblins Lake	1.000	Clear Lake (Hinchinbrooke).	100
West Lake	1,200	Clear Lake (Kennebec)	40
		Crotch Lake (Kennebec)	40
Renfrew:		Dog Lake	100
Black Bay	2,000	Gull Lake	60
Foster Lake	500	Kashwakamak Lake	25
Green Lake (Radcliffe)	500	Mink Lake	25
Hyde's Bay	1,500	Mississippi River	25
Lake Dore	1,000	Otter Lake	50
LeClaire Lake	1,000	Rideau Lake	100
Madawaska River	1,000	Sydenham Lake	50
Mink Lake	1,000		
Ottawa River	2,000	Haliburton:	
Petawawa River	2,000	Elephant Lake	100
table per		Gull Lake	100
Simcoe:		Koshlong Lake	100
Bass Lake	500		
Gloucester Pool	500	Hastings:	
Little Lake (Tay)	500	Big Salmon Lake	50
Nottawasaga River	500	Burnt Lake	25
Severn River	1,500	Dickey Lake	38
		Gull Lake	50
Sudbury:		Jordon Lake	50
Agnew Lake	3,000	Kaminiskeg Lake	100
Devils Lake	500	Lake of Islands	30
Dry Pine Bay	500	Parker Creek	100
French River	500	West Lake	100
Lake Penache	3,000	York River	100
Ramsay Lake	3,000	Human	
Wanapitei Lake	3,000	Huron:	
Whitson Lake	2,000	Maitland River	20
Timiskaming:		Kenora:	
Babs Lake	1,500	Lake Agimac	140
Butler Lake	500	Lake McNamara	135
Davis Lake	500		
Emerald Lake	500	Kent:	
Granite Lake	500	Lake St. Clair (Mitchell's	
Sesekinika Lake	1,000	Bay)	100
***		Rondeau Bay	70
Victoria:			• •
Lake Dalrymple	<b>500</b>	Leeds:	
Waterland		Big Rideau Lake	100
Waterloo:		Charleston Lake	200
Conestoga River	1,000	Crosby Lake	100
Grand River	600	Grippen Lake	100
Paradise Lake	600	Little Rideau Lake	100
		Newborough Lake	100
York:		Sand Lake	100
Lake Simcoe	1,000	St. Lawrence River	100
Musselman's Lake	500	Traynor Lake	100
		Lennox-Addington:	
YEARLINGS AND ADULTS	3	Cedar Lake	100
(v) v		Otter Lake	50
Algoma:		Weslemkoon Lake	50
Friendly Lake	120		
Gravel Lake	150	Peterborough:	
Knob Lake	150	Black Lake	100
Picnic Lake	145	Buckhorn Lake	
Tithic Lake		Buckhorn Lake	100

SMALL-MOUTHED BLACK —Continued	BASS	Shanty Bay—south arm Lake Nipissing	5,000
PETERBOROUGH—Continued		Northumberland:	
Chemong Lake	100	Crow Bay	20,000
Clear Lake	100	Mud Lake	50,000
Crab Lake	100	Rice Lake	100,000
Deer Bay	$\begin{array}{c} 100 \\ 100 \end{array}$	Trent River	115,000
Jack's Lake	100	rington	10,000
Katchawanooka Lake	100	ington	10,000
Little Cedar Lake	100	Parry Sound:	
Long Lake	100	Naskoten Lake	5,000
Loon Lake	200	Nipissing Lake	5,000
Lovesick Lake	$\begin{array}{c} 100 \\ 100 \end{array}$	Restoule Lake	5,000
Stony Lake	100	Detechanceal	
Trout Lake	100	Peterborough:	<b>5</b> 0.000
White Lake	100	Belmont Lake	50,000
		Buckhorn Lake	$50,000 \\ 50,000$
Renfrew:		Clear Lake	290,000
Calabogie Lake	100	Deer Bay	50,000
Corry Lake	100	Indian River	40,000
Green Lake (Horton) Moccasin Lake	$\begin{array}{c} 175 \\ 100 \end{array}$	Katchawanooka Lake	40,000
White Lake	100	Little Lake Little Mud Lake	$15,000 \\ 25,000$
		Lovesick Lake	50,000
Stormont:		Otonabee River	50,000
St. Lawrence River	200	Pigeon Lake	50,000
		Round Lake	25,000
Thunder Bay:		Stony Lake	75,000
Gull Lake	150	Trent River	$10,000 \\ 25,000$
Hazlewood Lake	190	white Dake	23,000
Island Lake Loon Lake	$\begin{array}{c} 150 \\ 150 \end{array}$	· Prince Edward:	
One Island Lake	165	Bay of Quinte	30,000
Shebandowan Lake	220	Muscote Bay	55,000
Williams Lake	50	West Lake	10,000
Victoria:		Renfrew:	
	100		5 000
Sturgeon Lake	100	Corry Lake Cushene Lake	5,000 5,000
		Lafleur Lake	5,000
MASKINONGE		Maskalonge Lake	5,000
$\mathbf{FRY}$			
Frontenac:		Simcoe:	
Sydenham Lake	15,000	Gloucester Pool	25,000
	,	Lake Couchiching	25,000
Hastings:		Stormont:	
Crow Lake		St. Lawrence River	10,000
Crow River		St. Dawience Mivel	20,000
Moira Lake	25,000	Thunder Bay:	
Moira River	$\begin{array}{c} 25,000 \\ 10,000 \end{array}$	Lac des Mille Lacs	5,000
Trent River	25,000		,
	,_,	Victoria:	
Leeds:		Balsam Lake	50,000
St. Lawrence River	10,000	Burnt River	25,000
		Dalrymple Lake Little Mud Turtle	$15,000 \\ 10,000$
Muskoka:		Mud Turtle Lake	10,000
Kahshe Lake	<b>15,00</b> 0	Pigeon Lake	150,000
Notes to storing		Pigeon River	100,000
Nipissing:	40.000	Sturgeon Lake	50,000
Lake Nipissing	10,000	Young's Lake	15,000

MASKINONGE—Continued	Durham:	
Welland:	Lake Scugog	500,000
	5,000 Frontenac:	
Magara Miver		E00.000
	Big Gull Lake	500,000 $500,000$
PERCH	Clear Lake	500,000
FRY	Crow Lake	250,000
Norfolk:	Elbow Lake	100,000
	0,000 Fifth Lake	250,000
Wateriora Graver 11t Fond, 15	Fourteen Island Lake	300,000
Great Lakes:	Green Lake	250,000
Lake Erie 59,00	Jack's Lake	100,000 1,250,000
0/0 (0	Long Lake (Olden)	100.000
DICKEDEL DOX	Long Lake (Portland)	300,000
PICKEREL FRY	Malcolm Lake	250,000
Algoma:	Marble Lake	250,000
	0,000 Mink Lake	250,000
	0,000 Mississagagon Lake	500,000
	0,000 Mississippi River	1,250,000 150,000
	0,000 Navy Bay	250,000
Echo Lake		250,000
	0,000 Rock Lake (Portland)	300,000
	0,000 Salmon River	150,000
	0,000 Sydenham Lake	350,000
Little Clear Lake	West Rideau Lake	500,000
	0,000	
Little Clear Lake	Grenville:	
	0,000 Nation River	,000,000
	0,000 Rideau River 1 0,000	,250,000
	0,000 Haldimand:	
1/00 (00)	Transmitting.	950 000
Brant:	Grand River	250,000
Grand River 25	0,000 Haliburton:	
the state of the s		950 000
Bruce:	Clear Lake Sam's Lake	$250,000 \\ 250,000$
	0,000	450,000
	7,500 0,000 Hastings:	
	-	CEO 000
	5,000 Baptiste Lake	650,000 $200,000$
	5,000 Jack Lake	100,000
	0,000 Lake Louis	200,000
0000 00	Lime Lake	100,000
Carleton:	Mallard's Lake	200,000
Constance Bay 20		,250,000
Ottawa River 40		,250,000
Rideau River 45	0,000 Moxam's Lake	100,000
0 1	Trent River 1 York River	,250,000 100,000
Cochrane:		100,000
	0,000 0,000 Kenora:	
	0,000	,000,000
		,250,000
		,250,000
		,000,000
	0,000 Cache Lake	500,000
Reid Lake 20	0,000 Lake of the Woods 22,	
		,000,000
		,250,000
		,250,000 $,000,000$
		,000,000
17 1150H LIURY 20	o, oo soparation have	,,

PICKEREL FRY—Contin	ued	Spence Lake	150,000 300,000
KENORA—Continued		N71 1 1	
Spruce Lake	1,000,000	Nipissing:	
Wabigoon Lake	1,000,000	Bebees Lake	100,000
Winnipeg River	1,000,000	Bruce Lake	100,000
		Champlain Lake	250,000
Lanark:		Finlayson Lake	200,000
Bennet's Lake	650,000	Lake Nipissing	500,000
Black Lake	300,000	Lake Nosbonsing	400,000
Christie Lake	650,000	Lake Timagami	800,000
Dalhousie Lake	800,000	Little Martin Lake	100,000
Fournier Mud Lake	100,000	Marten Lake	150,000
Long Lake	150,000	McPhee Lake Talon Lake	100,000
Lower Rideau	500,000	Tilden Lake	600,000 $350,000$
Mississippi Lake	200,000	Tomiko Lake	500,000
Otty Lake	600,000	Upper French River	500,000
Patterson's Lake	100,000	Wassi Lake	300,000
Pike Lake	$300,000 \\ 100,000$	Wickstead Lake	100,000
Widow's Lake	150,000	Wichstead Lake	100,000
Widows Lake	130,000	Northumberland:	
T and a			1 050 000
Leeds:		MacKenzie Channel	1,250,000
Bass Lake	600,000	Pickerel Bay	1,250,000
Crosby Lake	500,000	Presqu'ile Bay	100,000
Devil's Lake	150,000	Rice Lake Trent River	1,250,000
Green Lake	650,000	Trent River	6,250,000
Higgley Lake	250,000	Ontario:	
Little Rideau Lake	1,250,000		200 000
Sand Lake	500,000	Lake St. John	200,000
St. Lawrence River Traynor Lake	$2,000,000 \\ 250,000$		
Haynor Dake	250,000	Oxford:	
Lannay Addington:		Lakeside Lake	250,000
Lennox-Addington:	<b>F</b> 00.000	Lake Lisgar	200,000
Beaver Lake	500,000		
Cedar Lake	400,000	Parry Sound:	
Clare River	750,000	Ahmic Lake	300,000
Douglas Lake Long Lake	$150,000 \\ 400,000$	Bass Lake	100,000
Mazinaw Lake	800,000	Caribou Lake	200,000
Napanee River	2,500,000	Cecebe Lake	250,000
South Beaver Lake	450,000	Clear Lake	100,000
White Lake	400,000	Commanda Lake	200,000
Time Lane IIIIII	200,000	Crane Lake	200,000
Lincoln:		Deer Lake (Ferrie)	200,000
	950 000	Deer Lake (MacKenzie)	250,000
Twelve Mile Creek	250,000	Doe Lake	200,000
26		Duck LakeFootes Lake	$100,000 \\ 100,000$
Manitoulin:		Isabella Lake	400,000
Falls, and Burnett Lake	150,000	Jack Lake (Armour)	100,000
		Jack's Lake (Mills)	100,000
Muskoka:		Key River	400,000
Allen's Lake	150,000	Lake of Many Islands	200,000
Axel's Lake	150,000	Lake Rosseau	850,000
Bigelow's Lake	150,000	Lennon's Lake	100,000
Brandy Lake	200,000	Little Long Lake	100,000
Buck Lake	200,000	Long Lake	100,000
Duck Lake	150,000	Loon Bay	400,000
Gull Lake	300,000	Magnetawan River	1,100,000
Kahshe Lake	300,000	Manitowaba Lake	200,000
Lake Muskoka	1,900,000	McKeown Lake	100,000
Long Lake	150,000	Milton Lake	100,000
Mootes Lake	$150,000 \\ 250,000$	Minerva Lake	150,000
Severn River	250,000 $250,000$	Neighick Lake Oastler Lake	$200,000 \\ 500,000$
Sparrow Lakeeggs		Otter Lake	700,000
Sparron Lane	=,012,000	otter Bare	100,000

Parry Sound—Continued           Owl Lake         200,000           Pickerel Lake         200,000           Pickerel River         200,000           Pigeon Lake         100,000           Restoule Lake         200,000           Ruth Lake         200,000           Shawanaga Lake         350,000           Shebeshekong Lake         200,000           Shoal Lake         100,000           Stewart's Lake         150,000           Stormy Lake         100,000           Whitestone Lake         200,000           Wilson Lake         100,000           Wolf River         200,000	Castor River  Simcoe: Gloucester Pool Little Lake Nottawasaga River Severn River Sturgeon Bay  Stormont: St. Lawrence River  Sudbury: Agnew Lake	1,250,000 1,000,000 150,000 100,000 375,000 400,000 1,250,000
Owl Lake         200,000           Pickerel Lake         200,000           Pickerel River         200,000           Pigeon Lake         100,000           Restoule Lake         200,000           Ruth Lake         200,000           Shawanaga Lake         350,000           Shebeshekong Lake         200,000           Shoal Lake         100,000           Squaw Lake         200,000           Stewart's Lake         150,000           Stormy Lake         100,000           Whitestone Lake         200,000           Wilson Lake         100,000	Gloucester Pool Little Lake Nottawasaga River Severn River Sturgeon Bay Stormont: St. Lawrence River Sudbury: Agnew Lake	150,000 100,000 375,000 400,000
Pickerel Lake         200,000           Pickerel River         200,000           Pigeon Lake         100,000           Restoule Lake         200,000           Ruth Lake         200,000           Shawanaga Lake         350,000           Shebeshekong Lake         200,000           Shoal Lake         100,000           Squaw Lake         200,000           Stewart's Lake         150,000           Stormy Lake         100,000           Whitestone Lake         200,000           Wilson Lake         100,000	Little Lake Nottawasaga River Severn River Sturgeon Bay Stormont: St. Lawrence River Sudbury: Agnew Lake	150,000 100,000 375,000 400,000
Pickerel River         200,000           Pigeon Lake         100,000           Restoule Lake         200,000           Ruth Lake         200,000           Shawanaga Lake         350,000           Shebeshekong Lake         200,000           Shoal Lake         100,000           Squaw Lake         200,000           Stewart's Lake         150,000           Stormy Lake         100,000           Whitestone Lake         200,000           Wilson Lake         100,000	Little Lake Nottawasaga River Severn River Sturgeon Bay Stormont: St. Lawrence River Sudbury: Agnew Lake	150,000 100,000 375,000 400,000
Pigeon Lake       100,000         Restoule Lake       200,000         Ruth Lake       200,000         Shawanaga Lake       350,000         Shebeshekong Lake       200,000         Shoal Lake       100,000         Squaw Lake       200,000         Stewart's Lake       150,000         Stormy Lake       100,000         Whitestone Lake       200,000         Wilson Lake       100,000	Nottawasaga River Severn River Sturgeon Bay Stormont: St. Lawrence River Sudbury: Agnew Lake	100,000 375,000 400,000
Ruth Lake       200,000         Shawanaga Lake       350,000         Shebeshekong Lake       200,000         Shoal Lake       100,000         Squaw Lake       200,000         Stewart's Lake       150,000         Stormy Lake       100,000         Whitestone Lake       200,000         Wilson Lake       100,000	Sturgeon Bay  Stormont: St. Lawrence River  Sudbury: Agnew Lake	400,000
Shawanaga Lake       350,000         Shebeshekong Lake       200,000         Shoal Lake       100,000         Squaw Lake       200,000         Stewart's Lake       150,000         Stormy Lake       100,000         Whitestone Lake       200,000         Wilson Lake       100,000	Stormont: St. Lawrence River Sudbury: Agnew Lake	
Shebeshekong Lake         200,000           Shoal Lake         100,000           Squaw Lake         200,000           Stewart's Lake         150,000           Stormy Lake         100,000           Whitestone Lake         200,000           Wilson Lake         100,000	St. Lawrence River  Sudbury: Agnew Lake	1,250,000
Shoal Lake       100,000         Squaw Lake       200,000         Stewart's Lake       150,000         Stormy Lake       100,000         Whitestone Lake       200,000         Wilson Lake       100,000	St. Lawrence River  Sudbury: Agnew Lake	1,250,000
Squaw Lake         200,000           Stewart's Lake         150,000           Stormy Lake         100,000           Whitestone Lake         200,000           Wilson Lake         100,000	Sudbury: Agnew Lake	1,250,000
Stewart's Lake       150,000         Stormy Lake       100,000         Whitestone Lake       200,000         Wilson Lake       100,000	Agnew Lake	
Stormy Lake       100,000         Whitestone Lake       200,000         Wilson Lake       100,000	Agnew Lake	
Whitestone Lake 200,000 Wilson Lake 100,000		
Wilson Lake 100,000		750,000
	Birch Lake	250,000
	Dry Pine Bay (French River)	1,000,000
200,000	LaCloche Lake	750,000
Datanhananah :	Lake Penache Long Lake	1,000,000 750,000
Peterborough:	Onaping Lake	500,000
Belmont Lake 1,250,000	Raft Lake	250,000
Little Cedar Lake 250,000	Ramsay Lake	1,000,000
Little Lake 200,000	Unnamed Lake	250,000
Long Lake	Wanapitei Lake	1,000,000
	Washagami Lake	1,000,000
Otonabee River		, ,
Trent River 1,000,000	Thunder Bay:	
110110 111101	One-sided Lake	250,000
Prince Edward:	Whitefish Lake	500,000
Bay of Quinte	Timiskoming	
Consecon Lake 1,250,000	Timiskaming:	050 000
East Lake 540,000	Bass Lake	250,000
West Lake 750,000	Gillies Lake	200,000
	Granite Lake	400,000 200,000
Rainy River:	Hound Chutes	200,000
Clearwater Lake 5,000,000	Kenogami Lake	300,000
Lake of the Woods 1,000,000	Lady Evelyn Lake	200,000
One-Sided Lake 2,500,000	Lake Timiskaming	400,000
Rainy Lake	Long Lake	400,000
Sabaskong Bay 4,000,000	Net Lake	200,000
Steeprock Lake 1,000,000	Ottese Lake	200,000
	Portage Lake	200,000
Renfrew:	Rib Lake	400,000
Aird's Lake 250,000	Sesekinika Lake	200,000
Black Bay 350,000	Sharpe Lake	200,000
Blackfish Bay 100.000	Wendigo Lake	400,000
Constant Lake 250,000	Victoria:	
Cushene Lake 100,000	Dalrymple Lake	225,000
Golden Lake 250,000	Little Turtle Lake	450,000
Greenan Lake 200,000	Long Lake	250,000
Hurd's Lake 200,000	Young's Lake	200,000
Joe's Lake 100,000	Touring S Editio !!!!!!!	
Madawaska River 1,350,000	York:	
Maskalonge Bay 200,000	Lake Simcoe	500,000
Meilleur's Bay 100,000	Barre Simeoc	300,000
Muskrat Lake	Great Lakes:	
Petawawa River 350,000	North Channel	17.550 000
Pike Lake 50,000	Georgian Bay	
Round Lake 100,000	Lake Huron	13,500.000
Snake Lake 100,000	Lake Ontario	
White Lake (McNab) 550,000		, ,
White Lake (Raglan) 250,000	BLUE PICKEREL FRY	
York River 500,000	Lake Erie	500,000

BROWN TROUT		Perth:	
YEARLINGS AND ADULTS		Upper Avon River	1,200
Duants		Peterborough:	
Brant:	100	Baxter Creek	1,000
Gravel Pit Pond	$\substack{100 \\ 1,000}$	Cavan Stream	1,000
whiteman's Creek	1,000	Deer Bay Creek	1,000
Bruce:		Eel's Creek	$1,000 \\ 1,000$
Crane River	1,200	Mississauga Creek	1,000
Lockerby Creek	500	-	
Park Head Creek	400	Simcoe:	0.400
Plum Creek	$\begin{matrix} 700 \\ 1,800 \end{matrix}$	Nottawasaga River	3,400
Snake Creek	1,500	Waterloo:	
Spring Creek	900	Bridgeport Dam	100
Sucker Creek	750	Dentinger Creek	750
Vogt's Creek	750		
Elgin:		Wellington:	1 000
Big Creek	1,500 1,400	Speed River Wilson Creek	$\begin{array}{c} 1,200 \\ 250 \end{array}$
Grey:		Wentworth:	
	1 200	Bronte River	1,800
Big Head River	$\substack{1,200\\300}$	77 - 1	
Maxwell's Creek	600	York:	
Potawatami River	900	Humber River	7,100
Saugeen River	6,750	Sales-Demonstration and pro-	
Stony Creek Styx River	$\begin{array}{c} 300 \\ 2,250 \end{array}$	pagation purpose	2,592
Sydenham River	1,515		
Woothoronoon Crook	900		
Weatherspoon Creek	300	TAKE MEATIN	
	300	LAKE TROUT	
Haldimand:		LAKE TROUT FRY	
	700		
Haldimand:		FRY Frontenac: Brule Lake	20,000
Haldimand: Rogers Creek		FRY Frontenac: Brule Lake Buckshot Lake	30,000
Haldimand: Rogers Creek	700	FRY Frontenac: Brule Lake Buckshot Lake Camp Lake	30,000 10,000
Haldimand: Rogers Creek  Halton: Sixteen Mile Creek  Hastings:	700	FRY Frontenac: Brule Lake Buckshot Lake Camp Lake Crow Lake	30,000 10,000 20,000
Haldimand: Rogers Creek  Halton: Sixteen Mile Creek  Hastings: Beaver Creek	700 500 2,000	FRY Frontenac: Brule Lake Buckshot Lake Camp Lake Crow Lake Green Lake	30,000 10,000
Haldimand: Rogers Creek  Halton: Sixteen Mile Creek  Hastings:	700 500	FRY Frontenac: Brule Lake Buckshot Lake Camp Lake Crow Lake Green Lake Grindstone Lake Kaswakamak Lake	30,000 10,000 20,000 10,000 10,000 25,000
Haldimand: Rogers Creek  Halton: Sixteen Mile Creek  Hastings: Beaver Creek Squire's Creek	700 500 2,000	FRY Frontenac: Brule Lake Buckshot Lake Camp Lake Crow Lake Green Lake Grindstone Lake Kaswakamak Lake Loughborough Lake	30,000 10,000 20,000 10,000 10,000 25,000 35,000
Haldimand: Rogers Creek  Halton: Sixteen Mile Creek  Hastings: Beaver Creek Squire's Creek  Huron:	700 500 2,000 1,000	FRY Frontenac: Brule Lake Buckshot Lake Camp Lake Crow Lake Green Lake Grindstone Lake Kaswakamak Lake Loughborough Lake Mackie Lake	30,000 10,000 20,000 10,000 25,000 35,000 10,000
Haldimand: Rogers Creek  Halton: Sixteen Mile Creek  Hastings: Beaver Creek Squire's Creek  Huron: Nine Mile River Wroxeter Dam-Maitland	700 500 2,000	FRY Frontenac: Brule Lake Buckshot Lake Camp Lake Crow Lake Green Lake Grindstone Lake Kaswakamak Lake Loughborough Lake	30,000 10,000 20,000 10,000 10,000 25,000 35,000 10,000 30,000
Haldimand: Rogers Creek  Halton: Sixteen Mile Creek  Hastings: Beaver Creek Squire's Creek  Huron: Nine Mile River	700 500 2,000 1,000	FRY Frontenac: Brule Lake Buckshot Lake Camp Lake Crow Lake Green Lake Grindstone Lake Kaswakamak Lake Loughborough Lake Mackie Lake Mississagagon Lake Mosquito Lake Sand Lake	30,000 10,000 20,000 10,000 25,000 35,000 10,000 30,000 10,000 25,000
Haldimand: Rogers Creek  Halton: Sixteen Mile Creek  Hastings: Beaver Creek Squire's Creek  Huron: Nine Mile River Wroxeter Dam-Maitland River	700 500 2,000 1,000	FRY Frontenac: Brule Lake Buckshot Lake Camp Lake Crow Lake Green Lake Grindstone Lake Kaswakamak Lake Loughborough Lake Mackie Lake Mississagagon Lake Mosquito Lake Sand Lake Schooner Lake	30,000 10,000 20,000 10,000 25,000 35,000 10,000 30,000 10,000 25,000 15,000
Haldimand: Rogers Creek  Halton: Sixteen Mile Creek  Hastings: Beaver Creek Squire's Creek  Huron: Nine Mile River Wroxeter Dam-Maitland River  Middlesex:	700 500 2,000 1,000 1,200 200	FRY  Frontenae: Brule Lake Buckshot Lake Camp Lake Crow Lake Green Lake Grindstone Lake Kaswakamak Lake Loughborough Lake Mississagagon Lake Mosquito Lake Sand Lake Schooner Lake Trout Lake	30,000 10,000 20,000 10,000 25,000 35,000 10,000 30,000 25,000 15,000 25,000
Haldimand: Rogers Creek  Halton: Sixteen Mile Creek  Hastings: Beaver Creek Squire's Creek  Huron: Nine Mile River Wroxeter Dam-Maitland River  Middlesex: Medway Creek	700 500 2,000 1,000 1,200 200 1,000	FRY Frontenac: Brule Lake Buckshot Lake Camp Lake Crow Lake Green Lake Grindstone Lake Kaswakamak Lake Loughborough Lake Mackie Lake Mississagagon Lake Mosquito Lake Sand Lake Schooner Lake Trout Lake Wolfe Lake	30,000 10,000 20,000 10,000 25,000 35,000 10,000 30,000 10,000 25,000 15,000
Haldimand: Rogers Creek  Halton: Sixteen Mile Creek  Hastings: Beaver Creek Squire's Creek  Huron: Nine Mile River Wroxeter Dam-Maitland River  Middlesex: Medway Creek Pond Mills	700 500 2,000 1,000 1,200 200	FRY Frontenac: Brule Lake Buckshot Lake Camp Lake Crow Lake Green Lake Grindstone Lake Kaswakamak Lake Loughborough Lake Mackie Lake Mississagagon Lake Mosquito Lake Sand Lake Schooner Lake Trout Lake Wolfe Lake Hastings:	30,000 10,000 20,000 10,000 25,000 35,000 10,000 30,000 10,000 25,000 15,000 30,000
Haldimand: Rogers Creek  Halton: Sixteen Mile Creek  Hastings: Beaver Creek Squire's Creek  Huron: Nine Mile River Wroxeter Dam-Maitland River  Middlesex: Medway Creek Pond Mills  Norfolk:	700 500 2,000 1,000 1,200 200 1,000 1,000	FRY  Frontenae: Brule Lake Buckshot Lake Camp Lake Crow Lake Green Lake Grindstone Lake Kaswakamak Lake Loughborough Lake Mississagagon Lake Mosquito Lake Sand Lake Trout Lake Trout Lake Wolfe Lake Hastings: Bass Lake	30,000 10,000 20,000 10,000 25,000 35,000 10,000 25,000 10,000 25,000 30,000
Haldimand: Rogers Creek  Halton: Sixteen Mile Creek  Hastings: Beaver Creek Squire's Creek  Huron: Nine Mile River Wroxeter Dam-Maitland River  Middlesex: Medway Creek Pond Mills	700 500 2,000 1,000 1,200 200 1,000	FRY Frontenac: Brule Lake Buckshot Lake Camp Lake Crow Lake Green Lake Grindstone Lake Kaswakamak Lake Loughborough Lake Mackie Lake Mississagagon Lake Mosquito Lake Sand Lake Schooner Lake Trout Lake Wolfe Lake Hastings: Bass Lake Big Salmon Lake Burnt Lake	30,000 10,000 20,000 10,000 10,000 25,000 35,000 10,000 25,000 25,000 30,000 10,000 10,000 10,000 10,000 10,000 5,000
Haldimand: Rogers Creek  Halton: Sixteen Mile Creek  Hastings: Beaver Creek Squire's Creek  Huron: Nine Mile River Wroxeter Dam-Maitland River  Middlesex: Medway Creek Pond Mills  Norfolk:	700 500 2,000 1,000 1,200 200 1,000 1,000	FRY  Frontenac: Brule Lake Buckshot Lake Camp Lake Crow Lake Green Lake Grindstone Lake Kaswakamak Lake Loughborough Lake Mississagagon Lake Mosquito Lake Sand Lake Schooner Lake Trout Lake Wolfe Lake Hastings: Bass Lake Big Salmon Lake Burnt Lake Cedar Lake	30,000 10,000 20,000 10,000 25,000 35,000 10,000 10,000 25,000 15,000 30,000 10,000 15,000 5,000 5,000
Haldimand: Rogers Creek  Halton: Sixteen Mile Creek  Hastings: Beaver Creek Squire's Creek  Huron: Nine Mile River Wroxeter Dam-Maitland River  Middlesex: Medway Creek Pond Mills  Norfolk: Young's Creek  Northumberland: Bowen's Pond	700 500 2,000 1,000 1,200 200 1,000 1,000	FRY  Frontenac: Brule Lake Buckshot Lake Camp Lake Crow Lake Green Lake Grindstone Lake Kaswakamak Lake Loughborough Lake Mississagagon Lake Mosquito Lake Sand Lake Schooner Lake Trout Lake Wolfe Lake Hastings: Bass Lake Big Salmon Lake Burnt Lake Cedar Lake Clear Lake	30,000 10,000 20,000 10,000 25,000 35,000 10,000 25,000 10,000 25,000 30,000 10,000 15,000 5,000 5,000
Haldimand: Rogers Creek  Halton: Sixteen Mile Creek  Hastings: Beaver Creek Squire's Creek  Huron: Nine Mile River Wroxeter Dam-Maitland River  Middlesex: Medway Creek Pond Mills  Norfolk: Young's Creek  Northumberland: Bowen's Pond Coles Pond	700 500 2,000 1,000 1,200 200 1,000 300 100 85	FRY  Frontenac: Brule Lake Buckshot Lake Camp Lake Crow Lake Green Lake Grindstone Lake Kaswakamak Lake Loughborough Lake Mississagagon Lake Mosquito Lake Sand Lake Schooner Lake Trout Lake Wolfe Lake Hastings: Bass Lake Big Salmon Lake Burnt Lake Cedar Lake	30,000 10,000 20,000 10,000 25,000 35,000 10,000 25,000 25,000 30,000 15,000 5,000 5,000 10,000 5,000
Haldimand: Rogers Creek  Halton: Sixteen Mile Creek  Hastings: Beaver Creek Squire's Creek  Huron: Nine Mile River Wroxeter Dam-Maitland River  Middlesex: Medway Creek Pond Mills  Norfolk: Young's Creek  Northumberland: Bowen's Pond	700 500 2,000 1,000 1,200 200 1,000 1,000 1,000 100	FRY  Frontenac: Brule Lake Buckshot Lake Camp Lake Crow Lake Crow Lake Grindstone Lake Kaswakamak Lake Loughborough Lake Mackie Lake Mississagagon Lake Mosquito Lake Sand Lake Schooner Lake Trout Lake Wolfe Lake Hastings: Bass Lake Big Salmon Lake Burnt Lake Cedar Lake Clear Lake Devil Lake Dickey Lake Eagle Lake	30,000 10,000 20,000 10,000 25,000 35,000 10,000 25,000 10,000 25,000 30,000 10,000 5,000 5,000 5,000 20,000 20,000
Haldimand: Rogers Creek  Halton: Sixteen Mile Creek  Hastings: Beaver Creek Squire's Creek  Huron: Nine Mile River Wroxeter Dam-Maitland River  Middlesex: Medway Creek Pond Mills  Norfolk: Young's Creek  Northumberland: Bowen's Pond Coles Pond Dudley's Pond	700 500 2,000 1,000 1,200 200 1,000 300 100 85	FRY  Frontenac: Brule Lake Buckshot Lake Camp Lake Crow Lake Green Lake Grindstone Lake Kaswakamak Lake Loughborough Lake Mackie Lake Mississagagon Lake Mosquito Lake Sand Lake Schooner Lake Trout Lake Wolfe Lake Hastings: Bass Lake Big Salmon Lake Burnt Lake Cedar Lake Clear Lake Clear Lake Devil Lake Bickey Lake Eagle Lake Gunter Lake	30,000 10,000 20,000 10,000 25,000 35,000 10,000 25,000 10,000 25,000 30,000 10,000 5,000 5,000 5,000 20,000 20,000 10,000
Haldimand: Rogers Creek  Halton: Sixteen Mile Creek  Hastings: Beaver Creek Squire's Creek  Huron: Nine Mile River Wroxeter Dam-Maitland River  Middlesex: Medway Creek Pond Mills  Norfolk: Young's Creek  Northumberland: Bowen's Pond Coles Pond	700 500 2,000 1,000 1,200 200 1,000 300 100 85	FRY  Frontenac: Brule Lake Buckshot Lake Camp Lake Crow Lake Crow Lake Grindstone Lake Kaswakamak Lake Loughborough Lake Mackie Lake Mississagagon Lake Mosquito Lake Sand Lake Schooner Lake Trout Lake Wolfe Lake Hastings: Bass Lake Big Salmon Lake Burnt Lake Cedar Lake Clear Lake Devil Lake Dickey Lake Eagle Lake	30,000 10,000 20,000 10,000 25,000 35,000 10,000 25,000 10,000 25,000 30,000 10,000 5,000 5,000 5,000 20,000 20,000

LAKE TROUT—Continu	ied	Dalton Lake Diamond Lake	25,000 4,000
Hastings-Continued		Garden Lake	5,000
**	10.000	Grainery Lake	8,000
Lake of Islands	$10,000 \\ 22,500$	Grey Trout Lake	10,000
Little Salmon Lake	5.000	Hawk Lake	5,000
Long Lake (Dungannon)	7,500	Hobon Lake	8,000
O'Grady Lake	7,500	Howard Lake	5,000
Papineau Lake	17,500	Island Lake (McMahon)	10,000
Wadsworth Lake	10,000	Jobammeghia Lake Lake of the Mountains	5,000 <b>15,000</b>
0 0 1		Lonely Lake	10,000
Lanark:		Long Lake	10,000
Rideau Lake	40,000	Long Lake (Patton)	5,000
Silver Lake	15,000	Martinendale Lake	10,000
Leeds:		McCarroll's Lake	4,000
Big Rideau	55.000	Megginson Lake	10,000
Charleston Lake	45,000	Patton Lake	10,000
Devil Lake	25,000	Rainbow Lake	5,000 10,000
Lower Beverley Lake	7,500	Rand Lake	5,000
Red Horse Lake	10,000	Ranger Lake	15,000
		Raw Hide Lake	5,000
Lennox-Addington:		Red Deer Lake	5,000
Bark Lake	<b>5,0</b> 00	Rose Lake	5,000
Elbow Lake	5,000	Sand Lake	18,000
Finch Lake	5,000	Tookenay Lake	25,000
Little Weslemkoon Lake Otter Lake	20,000	Trout Lake	5,000
Thirty Island Lake	$\begin{array}{c} 15,000 \\ 5,000 \end{array}$	Wawa Lake	10,000 5,000
Weslemkoon Lake	30,000	,, and 124110	3,000
White Lake	10,000	Cochrane:	
1000		Remi Lake	10,000
Peterborough:			
Catchacoma Lake	10,000	Haliburton:	
Gull Lake	10,000	Bear Lake (Guilford)	5,000
Jack's LakeLittle Cedar Lake	10,000	Big Boskung Lake	10,000
Long Lake	$10,000 \\ 10,000$	Crooked Lake	20,000
Loon Lake (Chandos)	20,000	Davis Lake Drag Lake	10,000 35,000
Trout Lake (Burleigh)	10,000	Eagle Lake	5,000
	,	East Lake	5,000
Renfrew:		Gull Lake	20,000
Trout Lake	10,000	Hurricane Lake	5,000
Character Tradesia		Kashagawigamog Lake	15,000
Great Lakes:		Kingscote Lake	2,500
loko Suporion			
Lake Superior	325,000	Kushog Lake	10,000
North Channel	155,000	Little Boskung Lake	10,000
North Channel Lake Huron	155,000 6,195,000	Little Boskung Lake Little Hawke Lake	$10,000 \\ 10,000$
North Channel	155,000	Little Boskung Lake Little Hawke Lake Mountain Lake Oblong Lake	10,000
North Channel Lake Huron Lake Ontario	155,000 6,195,000	Little Boskung Lake Little Hawke Lake Mountain Lake Oblong Lake Redstone Lake	10,000 10,000 5,000
North Channel	155,000 6,195,000	Little Boskung Lake Little Hawke Lake Mountain Lake Oblong Lake Redstone Lake St. Nora's Lake	$10,000 \\ 10,000 \\ 5,000 \\ 5,000 \\ 10,000 \\ 10,000$
North Channel Lake Huron Lake Ontario FINGERLINGS	155,000 6,195,000	Little Boskung Lake Little Hawke Lake Mountain Lake Oblong Lake Redstone Lake St. Nora's Lake South Bay	10,000 10,000 5,000 5,000 10,000 10,000 5,000
North Channel Lake Huron Lake Ontario  FINGERLINGS  Algoma:	155,000 6,195,000 100,000	Little Boskung Lake Little Hawke Lake Mountain Lake Oblong Lake Redstone Lake St. Nora's Lake South Bay Spruce Lake	10,000 10,000 5,000 5,000 10,000 10,000 5,000 5,000
North Channel Lake Huron Lake Ontario  FINGERLINGS  Algoma: Achigan Lake	155,000 6,195,000 100,000	Little Boskung Lake Little Hawke Lake Mountain Lake Oblong Lake Redstone Lake St. Nora's Lake South Bay Spruce Lake Twelve Mile Lake	10,000 10,000 5,000 5,000 10,000 10,000 5,000
North Channel Lake Huron Lake Ontario  FINGERLINGS  Algoma: Achigan Lake Axe Lake	155,000 6,195,000 100,000 5,000 5,000	Little Boskung Lake Little Hawke Lake Mountain Lake Oblong Lake Redstone Lake St. Nora's Lake South Bay Spruce Lake	10,000 10,000 5,000 5,000 10,000 10,000 5,000 5,000
North Channel Lake Huron Lake Ontario  FINGERLINGS  Algoma: Achigan Lake Axe Lake Basswood Lake Belle Lake	155,000 6,195,000 100,000	Little Boskung Lake Little Hawke Lake Mountain Lake Oblong Lake Redstone Lake St. Nora's Lake South Bay Spruce Lake Twelve Mile Lake Hastings: Baptiste Lake	10,000 10,000 5,000 5,000 10,000 5,000 5,000 20,000
North Channel Lake Huron Lake Ontario  FINGERLINGS  Algoma: Achigan Lake Axe Lake Basswood Lake Belle Lake Bull Lake	155,000 6,195,000 100,000 5,000 5,000 5,000 5,000 5,000	Little Boskung Lake Little Hawke Lake Mountain Lake Oblong Lake Redstone Lake St. Nora's Lake South Bay Spruce Lake Twelve Mile Lake Hastings: Baptiste Lake Kaminiskeg Lake	10,000 10,000 5,000 5,000 10,000 10,000 5,000 20,000
North Channel Lake Huron Lake Ontario  FINGERLINGS  Algoma: Achigan Lake Axe Lake Basswood Lake Belle Lake Bull Lake Caribou Lake	155,000 6,195,000 100,000 5,000 5,000 5,000 5,000 5,000 5,000	Little Boskung Lake Little Hawke Lake Mountain Lake Oblong Lake Redstone Lake St. Nora's Lake South Bay Spruce Lake Twelve Mile Lake Hastings: Baptiste Lake Kaminiskeg Lake Limestone Lake	10,000 10,000 5,000 10,000 10,000 5,000 5,000 20,000 10,000 10,000 2,500
North Channel Lake Huron Lake Ontario  FINGERLINGS  Algoma: Achigan Lake Axe Lake Basswood Lake Belle Lake Bull Lake Caribou Lake Chiblow Lake	155,000 6,195,000 100,000 5,000 10,000 5,000 5,000 5,000 10,000	Little Boskung Lake Little Hawke Lake Mountain Lake Oblong Lake Redstone Lake St. Nora's Lake South Bay Spruce Lake Twelve Mile Lake Hastings: Baptiste Lake Kaminiskeg Lake	10,000 10,000 5,000 5,000 10,000 10,000 5,000 20,000
North Channel Lake Huron Lake Ontario  FINGERLINGS  Algoma: Achigan Lake Axe Lake Basswood Lake Belle Lake Bull Lake Caribou Lake Chiblow Lake Chub Lake Chub Lake	155,000 6,195,000 100,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000	Little Boskung Lake Little Hawke Lake Mountain Lake Oblong Lake Redstone Lake St. Nora's Lake South Bay Spruce Lake Twelve Mile Lake Hastings: Baptiste Lake Kaminiskeg Lake Limestone Lake	10,000 10,000 5,000 10,000 10,000 5,000 5,000 20,000 10,000 10,000 2,500
North Channel Lake Huron Lake Ontario  FINGERLINGS  Algoma: Achigan Lake Axe Lake Basswood Lake Belle Lake Bull Lake Caribou Lake Chiblow Lake Chub Lake Chub Lake Clear Lake (Gould)	155,000 6,195,000 100,000 5,000 5,000 5,000 5,000 5,000 5,000 10,000 5,000 10,000	Little Boskung Lake Little Hawke Lake Mountain Lake Oblong Lake Redstone Lake St. Nora's Lake South Bay Spruce Lake Twelve Mile Lake Hastings: Baptiste Lake Kaminiskeg Lake Limestone Lake Kenora:	10,000 10,000 5,000 10,000 10,000 5,000 5,000 20,000 10,000 10,000 2,500
North Channel Lake Huron Lake Ontario  FINGERLINGS  Algoma: Achigan Lake Axe Lake Basswood Lake Belle Lake Bull Lake Caribou Lake Chiblow Lake Chub Lake Chub Lake	155,000 6,195,000 100,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000	Little Boskung Lake Little Hawke Lake Mountain Lake Oblong Lake Redstone Lake St. Nora's Lake South Bay Spruce Lake Twelve Mile Lake Hastings: Baptiste Lake Kaminiskeg Lake Limestone Lake Long Lake Kenora: Big Vermilion Lake Blue Lake	10,000 10,000 5,000 5,000 10,000 5,000 20,000 10,000 20,000 2,500 2,500
North Channel Lake Huron Lake Ontario  FINGERLINGS  Algoma: Achigan Lake Axe Lake Basswood Lake Belle Lake Bull Lake Caribou Lake Chiblow Lake Chub Lake Clear Lake (Gould) Clear Lake (Scarfe)	5,000 5,000 5,000 10,000 5,000 5,000 5,000 5,000 10,000 5,000 10,000 5,000	Little Boskung Lake Little Hawke Lake Mountain Lake Oblong Lake Redstone Lake St. Nora's Lake South Bay Spruce Lake Twelve Mile Lake Hastings: Baptiste Lake Kaminiskeg Lake Limestone Lake Long Lake Kenora: Big Vermilion Lake	10,000 10,000 5,000 10,000 10,000 5,000 20,000 10,000 20,000 2,500 2,500 40,000

LAKE TROUT—Continued		Big Loon Lake	5,000
		Black Lake	7,500
Kenora—Continued		Davison Lake	10,000
Crow Lake	25,000	Eagle Lake	15,000
Cut Stone Lake	20,000	High Lake	7,500
Dogtooth Lake	50,000	Horn Lake	20,000
Gibbi Lake	20,000	Horner's Lake	5,000
Lake of the Mountain	20,000	Horseshoe Lake	15,000
Lake of the Woods	360,900	Lake Memesagamesi	10,000
Little Vermilion Lake	40,000	Lake RosseauLittle Lake Joseph	20,000
Rice Lake	10,000	Little Whitefish Lake	$10,000 \\ 5,000$
Rosamond Lake	$20,000 \\ 10,000$	Loon Bay	5,000
Round Lake Sturgeon Lake	20,000	Lorimer Lake	15,000
Thunder Lake	20,000	Otter Lake	10,000
Trout Lake	25,000	Ruth Lake	5,000
Willard Lake	50,000	Salmon Lake	10,000
William Band Hilliam	00,000	Spring Lake	10,000
Manitoulin:		Sucker Lake	15,000
	90.000	Tea Lake	10,000
Lake Manitou	20,000	Three Legged Lake	10,000
		Whitefish Lake	10,000
Muskoka:	10.000		
Bella Lake	10,000	Peterborough:	
Clear Lake (McLean)	5,000	Loon Lake (Chandos)	10,000
Clear Lake (Ridout)	5,000	Sandy Lake	5,000
Fairy Lake	25,000		
Fox Lake	$10,000 \\ 10,000$	Rainy River:	
Haley's Lake	10,000	Ash Bay	13,800
Heeney Lake Indian River	5,000	Bad Vermilion	40,000
Lake of Bays	45,000	Burnt Lake	75,000
Lake Joseph	12,500	Crow Lake	90,000
Long Lake	5,000	Eva Lake	20,000
Loon Lake	5,000	Kishkutena Lake	15,000
Mary Lake	30,000	Narrow Lake	25,000
Muskoka Lake	55,000	Pipestone Lake	75,000
Paint Lake	5,000	Sphene Lake	30,000
Peninsula Lake	30,000	Spring Lake	20,000
Rat Lake	5,000	Steeprock Lake	40,000
Rebecca Lake	10,000	D 8	
Skeleton Lake	20,000	Renfrew:	
Spring Lake	5,000	Bark Lake	6,000
Trout Lake	5,000	Barry's Bay	2,000
Vernon Lake	20,000	Brewster Lake	10,000
Walker Lake	10,000	Carson Lake	2,000
		Centre Lake	9,000
Nipissing:		Cross Lake Diamond Lake	8,000 $10,000$
Cache Lake	3,000	Lake Clear	4,000
Canoe Lake	3,000	Long Lake	10,000
Herridge Lake	10,000	Round Lake	5,000
Joe Lake	3,000	Schaven Lake	5,000
Lake of Two Rivers	3,000	Tea Lake	2,000
Lake Timagami	$\substack{20,000\\5,000}$	Trout Lake	2,000
Lowell Lake	13,000	Tusaw Lake	2,000
McMaster Lake	6,000	Wadsworth Lake	3,000
Moore's Lake	2,000		
Smoke Lake	3.000	Simcoe:	
Source Lake	3,000	Kempenfeldt Bay	30,000
South Lake (South Tea)	3,000		.,
Talon Lake	20,000	Sudbury:	
Trout Lake	16,000	Birch Lake	8,000
	-	Bull Lake	5,000
Parry Sound:		Ella Lake	10,000
Bella Lake	10,000	Geneva Lake	10,000
Big Joseph Lake	12,500	Lake Agnew	10,000
Zag vosoph zano minimi	,000		. ,

LAKE TROUT—Continu	ed	Bruce:	
		Sauble River	10,000
Sudbury—Continued	10.000	The Manufacture	
Lake Penache	10,000	Dufferin:	
Long Lake (Broder) Long Lake (Harrow)	$15,000 \\ 10,000$	Nottawasaga River	17,600
Nelson Lake	10,000	Pine River	10,000
Ramsay Lake	10,000	Grev:	
Second Trout Lake	5,000	Saugeen River	20,000
Wanapitei Lake	15,000	baugeen miver	20,000
Windermere Lake	5,000.	Haliburton:	
Windy Lake	10,000	Burnt Lake	20,000
Thunder Bay:		McFadden's Lake	10,000
Baril Lake	30,000	North Lake	5,000
Brown Lake	20,000		
Lake Nipigon	50,000	Muskoka:	
Surprise Lake	20,000	Indian River	10,000
300.7		Long Lake	10,000
Timiskaming:		N. 6 N.	
Anima Nipissing	5,000	Norfolk:	
Larder Lake	$\begin{matrix} 10,000 \\ 10,000 \end{matrix}$	Black Creek	5,000
Nellie Lake	5,000	North Creek Patterson's Creek	$5,000 \\ 5,000$
Net Lake	5,000	Young's Creek	1,000
Perry Lake	5,000	roung s croom	2,000
Pine Lake	5,000	Renfrew:	
Rib Lake	15,000	Coldwater River	10,000
Trout Lake	5,000	Kempenfeldt Bay	10,000
Twin Lakes Watabeag Lake	$5,000 \\ 10,000$	Lake Simcoe & Brough's	20,000
watabeag Lake	10,000	Creek	30,000
York:		Sturgeon River	20,000
Lake Simcoe	30,000	~	
		Sudbury:	
Great Lakes:		Nelson River	5,000
Lake Superior	3,285,000	Onaping River	5,000
North Channel	150,000	Unnamed Lake— Ermatinger Tp	5,000
Georgian Bay	2,850,000	Windermere Lake	5,000
Lake Huron Lake Ontario	$1,220,000 \\ 25,000$	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-,
	20,000	Wellington:	
EYED EGGS		Saugeen River	10,000
Exchange	2,437,000		,
100		York:	
		Humber River	10,000
RAINBOW TROUT			,
		Sales-Demonstration and pro-	
FINGERLINGS		pagation purposes	3,150
Algoma: Batchawana River	3,000	YEARLINGS and ADULT	S
Chippewa River	3,350		
Clear Lake	5,000	Elgin:	
Garden River	3,000	St. Thomas Reservoir	1,000
Huston Lake	5,000		
Jobammeghia Lake	500	Grey:	
Keegos Lake	5,000	Saugeen River	800
Mississagi River	$10,\!000 \\ 18,\!000$		
North Lake	5,000	Simcoe:	
Serpent River	2,000	Sturgeon River	2,600
Snowshoe Creek	5,000		
West Lake	5,000	Sales—Demonstration and pro-	0 997
White River	10,000	pagation purposes	2,327

KAMLOOPS TROUT		Haliburton:	
FINGERLINGS and ADULT	S	Bear Lake	4,000
i irodhibirod ana iibebi	~	McFadden Lake	4,000 $4,000$
Muskoka:		Round Lake	4,000
Waseosa Lake	7,800	Muskoka:	
Nipissing:			4.000
Lake Timagami	4,000	Axel's Creek	$\frac{4,000}{4,000}$
Dane Timagami	1,000	Bradford Creek	4.000
Parry Sound:		Clear Lake	2,000
Bernard Lake	7,000	Fax Lake	4,000
Poole Lake	7,000	Long Lake Martin Lake	$\frac{4,000}{4,000}$
Miscellaneous:		Mary Lake	4,000
Demonstration and propaga-		Muskoka River	4,000
tion purposes	21	Peninsula Lake	2,000
•		Rebecca Lake	$\frac{4,000}{2,000}$
		Rill Lake	4.000
ATLANTIC SALMON		Vernon Lake tributary	-,
		creeks	2,000
YEARLINGS		Norfolk:	
Bruce:		Big Creek	3,000
Gillies Lake	4,800	Kent Creek	3,000
Gillies Lanc	1,000	- Stony Creek	3,000
		D G 1-	
SPECKLED TROUT		Parry Sound:	
		Clear Lake (Perry) Sand Lake	$\frac{4,000}{5,000}$
FINGERLINGS		Danu Lake	3,000
Algoma:		Renfrew:	
Batchawana River	6.000	Westmeath Creek	614
Big Stony Lake	5,000	Cimaga	
Blue Lake (1D1C.)	5,000	Simcoe:	000
Boundary Lake	6,000	Black Creek	200
Burns Lake (176)	6,000 $6,000$	Thunder Bay:	
Chippewa River—north	6,000	Allen Lake	1,000
Christman Lake	6,000	Big MacKenzie River	5,000
Fern Lake	3,000	Blind Creek	5,000
Horseshoe Lake	$\frac{1,000}{6,000}$	Brule Creek	$\frac{2,500}{2,500}$
Island Lake (Aweres)	12,000	Clegg Lake	$\frac{2,300}{1,000}$
Island Lake (McMahon)	6,000	Coldwater River	5,000
Little White River	6,000	Deception Lake	6,000
Loon Lake (Deroche) McDonald Creek	$6,000 \\ 1,000$	Elgin Lake	$\frac{3,000}{2,500}$
Pancake River	6,000	Half Moon Lake	3,000
Robertson Lake	6,000	Kaministiquia River	10,000
Root River	6,000	Kenney Lake	2,500
Stony Portage Trout Lake (Aweres)	$\frac{5,000}{6,000}$	King Lake Lake Hilma	$\frac{2,500}{1,000}$
Unnamed Lake (Lascelles) .	1.500	Legault Lake	2.500
Vixon Lake	3,000	Lost Lake	3,000
Wartz Lake	6,000	McIntyre River	6,000
Weashkog Lake	$\frac{6,000}{1,000}$	Mileage 5—Cahill	5,000 $5,000$
Willie Deal Dake	1,000	Moonshine Lake	3,000
Durham:		Moose Creek	5,000
Ganaraska River	3,000	Neebing River	6,000
	-,	Nipigon River North Enders Stream	$18,000 \\ 5,000$
Elgin:		Pearl River	5,000
Almond Creek	1,000	Pitch Creek	5,000

SPECKLED TROUT—Contin	ned	Guest Lake	$\frac{1,000}{2,500}$
my lan Down Continued		Harmony River	3,600
Thunder Bay—Continued	4.000	Hawk Lake	1,600
Thunder Bay	1,000	Hayden Lake	3,000
Trout Creek	5,000	Hearst Lake	2,500
Trout Lake (Stirling)	10,000	Hoath Lake	500
Upper Pass Lake	10,000	Hobon Lake	2,400
1		Horn Lake	1,000
York:		Horse Lake	1,250
Sales—Demonstration and pro-	0.000	Horseshoe Lake	1,400
pagation purposes	6,000	Howard Lake	1,000
		Hubert Lake	2,400
EVED EGGG		Island Lake (176)	3,000
EYED EGGS		Island Lake (McMahon)	5,000
York:	1 000	Jackfish River	3,250
Demonstration purposes	1,000	Jarvis Lake	2,000
		Jimmie Lake	3,200
YEARLINGS		Jobammeghia Lake	$\frac{1,600}{5,000}$
		Jones Creek Kashawong River	2,500
Algoma:		Kashawong River	750
Achigan Creek	2,000	Khora Lake	2,000
Achigan Lake	2,400	Lafoe Creek	3,200
Agawa River	4,800	Lake Maude	1,900
Alva Lake	1,600	Laughing Lake	2,000
Anjigami Creek	1,600	Little Island Lake	8,000
Arnill Creek	1,500	Little Thessalon River	3,200
Aubinadong Lake	2,000	Little White River	3,000
Austin Lake	1,250	Lonely Lake	6,800
Baker's Lake	1,000	Long Lake (Aweres)	3,000
Baltimore Lake	1,000	Long Lake (Jarvis)	4,000
Bamagesic Lake	1,600	Long Lake (Meredith)	9,800
Basswood Lake	3,200	Loon Lake (Deroche)	1,400
Batchawana River	12,000	Loon Lake (Kirkwood)	1,600
Birch Lake	$1,000 \\ 1,600$	Loon Lake (24-R.13)	$\frac{1,600}{2,400}$
Blue Lake (near Thessalon) Boundary Lake	1,500	Loonskin Lake Lower Island Lake	4,000
Boyles Creek	3,200	Marion Lake	1,250
Bridgeland River	5,000	McCormick's Lake	1,600
Burns Lake	2,500	McCrea Creek	2,500
Burnt Island Lake	1,000	McIntyre Lake	750
Burrough's Lake	3,200	McLeod's Creek	1,250
Caldwell Lake	800	McVeigh Creek	1,600
Camp 8 Bay	2,000	Merchant Lake	1,000
Camp 8 Creek	3,000	Meshagami Lake	2,800
Camp Lake	1,000	Michipicoten River	6,400
Canoe Lake	1,000	Mile 58 Lake	1,600
Cedar Creek	1,000	Mongoose Lake	2,400
Chiblow Lake	$\frac{1,000}{2.000}$	Moose Lake (Wells)	2,500
Chippewa River North	$\frac{2,000}{12,000}$	Moose Lake (25-R.13) Mountain Lake (188)	$\frac{2,400}{800}$
Chippewa River South	12,000	Mountain Lake (188) Mountain Lake (McMahon)	500
Chub Lake	2,000	Mountain Lake (1-A.U.)	2.000
Clear Lake	4,000	Mud Creek (Vankoughnet) .	7,600
Coffey Creek	2,500	Mud Lake (1.A.)	1,000
Coldwater Creek	2,000	Newcomb's Lake	3,000
Copp Lake	1,000	Newt Lake	1,000
Crooked Lake	4,000	Nixon Lake	1,000
Darriel Creek	1,000	Obakamiga River	2,000
Deer Lake	3,000	Paquette Lake	2,000
Devils Lake	2,000	Pearl Lake	600
Echo Lake	1,000	Pine Lake (Aweres)	5,500
Fern Lake	1,000	Pine Lake (24-R-13)	4,800
Garden Lake	4,000	Pine or Prugh Lake (25 R.)	1,600 1,600
Gravel Lake	$\frac{3,000}{5,700}$	Pinkney Lake Prospect Lake	3,200
Grey Trout Lake	1,000	Rand Lake	1,600
	2,000	Zunu zuno	_,000

SPECKLED TROUT—Contin	nued	Cochrane:	
Alwania Continued		Crooked Creek	800
Algoma—Continued		Dandurant Creek	850
Ranger Lake	20,800	Ferrier Lake	2,200
Rapid River	4,100	Hannah Lake	800
Reserve Lake	2,000	Junction Lake	1,000
Richardson Creek	2,500	Legare Creek	1,200
Robertson Lake	$\frac{4,000}{1,000}$	Liniment Lake	1,200
Root River	1,000	Shaw Creek	1,000
Round Lake (Aweres)	1,500	Spring Lake	1,000 $1,000$
Round Lake (Grassett)	3,200	Spring Dake	1,000
Sand Lake	2,000	Dufferin:	
Sand Lake Creek	2,400		
Sand River	2,400	Boyles Creek	500
Sausabic Lake	1,000	Butler's Creek	1,800
Saymo Bay	1,000	Canadany Crook	1,800
Saymo Lake	4,000	Cemetery Creek Credit River	$950 \\ 1.600$
Seventeen Mile Creek	1,250	Curtis Creek	1,800
Shekak River	2,000	Easson Creek	1,000
Shumka Lake	1,300	Nottawasaga River	3,900
Speckled Trout Lake (176).	750	Pine River	3,900
Speckled Trout Lake	900	Springbrook Creek	500
(28-R.16)	800 1 500	Unnamed Stream, Mono. Tp.	1,200
Speckled Trout Lake (1-A.) .	$\substack{1,500\\2.000}$	,	-,
Snowshoe Creek Spruce Lake	1,600	Durham:	
Station Lake	1,000	Armstrong's Creek	100
Stokely Creek	9,000	Arnot's Creek	2,400
Stony Portage	2,000	Aude Stream	100
Sucker Lake	1.600	Ball's Stream	100
Tamarack Lake	800	Beatty's Creek	1,200
Tawabinasay Lake	2,400	Burk's Pond	1,500
Tea Lake	1,000	Butter's Stream	100
Triple Lake	800	Cain's Creek	2,400
Trout Lake (Aweres)	6,000	Carscadden Creek	800
Trout Lake Inlet	400	Chapman Creek	100
Twin Lakes	6,000	Cowan's Creek	100
Twin Sister #1	1,500	Cowper's Creek	800
Two Tree River Upper Root River	$\frac{2,500}{3.600}$	DeLong's Creek	2,400
Walker Lake	2,500	Frew's Creek	$\frac{1,800}{300}$
Wallace Lake	800	Ganaraska River	1,000
Wartz Lake	2,400	John Mercer's Pond	600
Waterman Lake	2,000	Leskard Creek	100
Wawa Lake	2,400	Luxton's Creek	1.600
Whitewood Creek	1,500	Mountjoy Creek	2,400
White River	3,000	Mularew's Creek	900
Woods Creek	2,500	Neal's Creek	100
Demonstration purposes	150	Powell's Creek	300
		Quantreuil's Creek	900
Bruce:		Robbin's Creek	100
Big Bay Swamp Creek	400	Robinson's Creek	100
Colpoy Creek	400	Roy Mercer's Creek Rowe's Pond	800
Crystal Lake	900	Sowden's Creek	$\substack{100\\1,200}$
Curres Creek	900	Sowper's Creek	1,200 $1,600$
Gillies Lake	1,500	Squirrel Creek	1,000
Hoffart's Neck	1,200	Stream above White's Pond	900
Kirkland's Creek	900	Thompson's Creek	800
Klondike Creek	750	Tyrone Pond	800
Silver Stream (Amabel)	1,800		555
Silver Stream (Carrick)	1,400	Elgin:	
Spring Creek	1,800	Ball Creek	1 500
Teeswater River	1,800	Bassell Creek	$1,500 \\ 1,000$
Willow Creek	1,400	Beaver Creek	1,000
Wilson's, or Forbes Creek	900	Buck Creek	1,500
			_,000

SPECKLED TROUT—Continu	ued	Hollinger Creek	900
Elgin—Continued		Howey's Stream Hydro Pond	$\frac{1,950}{7,800}$
_	500	Lamont's Stream	900
Class Creek		Lawrence Creek	900
Clear Creek	$\frac{4,300}{4,600}$	Manx Creek	1,800
Deer Creek Eckert Creek	500	McCaslin Creek	600
Goodwillie Creek	1.000	McConnell's Creek	1,200
Grange Hall Creek	1.500	McCullough Creek	300
Howey Creek	500	McGowan Dam	1,600
Leitch Creek	1.000	McGregor's Creek	900
Synden Creek	500	McIntosh's Lake	1,950
Wolfe Creek	<b>50</b> 0	McMullen's Creek	500
		Mitchell's Creek	5,850
Frontenac:		Mitchell's Pond	500
Beaver Creek	4,800	Moffatt's Creek	900
Black Creek	1,000	Munshaw Lake	500
Buckshot Creek	2,400	Niemo Creek	1,500
Camp Lake	2,400	Nigger Creek Oxenden Creek	3,300 2,800
Craig's Creek	2,400	Parks Lake	900
Creek entering Buckshot	2.100	Priddles Creek	1,950
Lake	2,400	Rob Roy Creek	1,600
Eagle Creek	1,800	Rocky Saugeen	2,950
Grindstone Lake	4,800	Saugeen River	8,200
Mallory Creek	4,800	Schultz Creek	1,800
Quackenbush Lake	$\frac{4,800}{2,400}$	Spey River	450
Reid's Creek	2,400	Spring Creek (Town of Dur-	
Round Lake	312	ham)	900
Sand Lake	2,400	Spring Lake	1,800
Shibley Creek	1,000	Stream at Markdale	900
Trout Lake	4.800	Sulphur Springs	200
	,	Sydenham River	29,900
Grey:		Tannery Creek	$\frac{900}{2,400}$
Anderson's Lake	1,800	West's Creek	1.200
Bass Lake	2,500	Wilcox Lake	500
Beatty Saugeen	3,600	Wiley's Creek	1,800
Beaver River	9,450	Williams Lake	14,750
Bell's Lake	3,600	Unnamed Stream—Egremont	1.800
Bett's Creek	500	Unnamed Stream-Glenelg .	300
Bighead Creek	1,800	Haliburton	
Bighead River	4,400		=00
Black's Beach	4,500	Blue Lake	500
Black Creek	1,600	Blue Lake River	500
Blind Creek	950	Bones Lake Burnt River	500
Boyd's Lake	$6,400 \\ 1,800$	Deer Lake	1,400 800
Camp Creek	1,400	Dog Lake	500
Caseman's Creek	1.200	Drag River	1.000
Comber's Creek	450	Eagle Lake River	500
Corlett's Creek	100	East Lake	2,400
Cotter's Creek	900	Gull River	1,800
Craig's Creek	300	Hawke River	1,000
Creek in Bentinck Tp	300	Hollow Lake	400
Deer Creek	3,600	Oblong River	1,000
Dodsworth Creek	900	Otter Lake	400
Duncan Lake	1,000	Pine Lake River	400
Ellis Creek	1,800	Portage Lake	900 400
English Lake Ewart's Lake	$\frac{3,600}{1,800}$	Raven Lake	400
Ferguson's Creek	900	Redstone Lake	1,400
Firth's Creek	1.800	St. Nora's Lake	400
Gagnon's Creek	500	White Trout Lake	400
Glen Creek	1,800		
Hall's Lake	900	Halton	
Harbottle Creek	900	Black Creek	900
Highland Creek	500	Ontario Reformatory	500

SPECKLED TROUT—Contin	rued	Conner's Lake	2,400
Hastings		Dafoe Lake	2,400
Alexander Creek	2,400	Enterprise Creek	1,000 1,000
Baptiste Lake	4,800	Fox Lake	2,400
Barrager's Lake	2,400	King Lake	2,400
Bartlett Creek	2,400	Long Lake	1,000
Brett Lake	2,400	MacKenzie Lake	1,000
Cannon's Lake	5,700	Mallory Creek	550
Canoe Lake	1,000	Rock Lake (Abinger)	590
Cedar Creek	4,800	Rock Lake (Ashby)	1,500
Cockburn Creek	3,000	Shiner Lake	1,000
Deer River	4,800	Smith Lake	2,000
Diamond Lake	4,800	Thirty Island Creek	2,800
Eagle Lake	2,400	Tonawanda Creek	1,000
East Lake	900	White Lake	4,800
Egan Creek	4,800	Manitoulin	
Faulkner Creek	1,000		
Fraser Lake	1,000	Barr's Creek	2,000
Geen's Creek	<b>2,40</b> 0	Bluejay River	15,000
Green Lake	4,800	Bonnie Doone Creek	1,000
Horseshoe Lake	<b>500</b>	Hare's Creek	1,000
Jardison Lake	2,400	Manitou River	17,581
Lake St. Peter	9,600	Mindemoya River	15,000
Little Lighthouse Lake	500	Srigley Creek	3,000
Little Mississippi River	4,800	Middlesex	
Long Lake (Herschel)	600	Cody Creek	000
Long Lake (Mayo)	400	Wye Creek	600
McCormick Lake	3,800	Wye Oreek	3,000
McGare Creek	4,800	Muskoka	
Mirror Lake	400	Ballantyne Creek	500
Mud Lake	900	Bella Lake	1,800
Mud Turtle Lake Noisy Creek	$1,800 \\ 1,000$	Big East River	36,000
Papineau Creek	4,800	Deep Lake	4,000
Rawdon Creek	4,800	Echo Lake	500
Shaw Lake	1,000	Fairy Lake	4,000
Shire Creek	6,000	Fraser's Lake	1,200
Squire's Creek	4,800	Gipsy Creek	500
Sylvia Lake	4,800	Goose Lake	900
Williams Lake	2,400	Grindstone Lake	500
	-,	Helve Lake	900
Huron		Jessops Creek	2,000
Porter's Creek	1,800	Little East River	12,000
Sharp's Creek	3,600	Loon Lake	1,800
Spring Creek	1,800	Loon Lake Creek	900
St. Helen's Creek	1,800	Muskoka River	7,700
20. 110.01.5 0.00.	2,000	Peninsula Lake	4,000
Kenora		Round Lake	4,000
Cedar Lake	750	Shoe Lake	900
Closs Lake	750 750	Skeleton Lake Vernon Lake	1,200
English River	1.500	Wolf Lake	4,000
Little Vermilion	5,500	Wolf Lake	500
Little verminon	0,000	Nipissing	
Lambton		Alexander Lake	1,000
	F00	Antoine Creek	2,000
Bear Creek	500	Aumond Creek	3,000
Lonark		Austin Lake	1,400
Lanark	4.000	Balsam Creek	2,000
Clyde's River	4,800	Bay Lake	1,600
Murray's Lake	4,800	Beaudry Lake	1,400
Musquito Lake	2,400	Blue Sea Creek	5,000
Paul's Creek	3,800	Boulter Tp. Lakes: Boat,	•
Lannar Addington		Long and Loon	3,200
Lennox-Addington	4.000	Bug Lake	1,000
Brown's Lake	4,800	Cauchon Lake	1,000
Burns Lake	2.400	Cedar Lake	1,000

SPECKLED TROUT—Continu	ued	Quinn's Creek	2,000
Minimaina Continued		Robin's Creek	200
Nipissing—Continued		Sandy Flat Creek	2,400
Cheney Creek	800	Taylor's Creek	100
Clear Lake (Antoine)	5,000	Valleau's Creek	1,000
Clear Lake (Lyell)	1,000	West's Creek	2,000
Clear Lake (near Timagami)	1,200	Williams Pond	600
Crooked Lake	$\frac{1,000}{2,400}$	Ontario	
Crystal Lake	$\frac{2,400}{1.100}$	Black Creek—north	400
Devils Lake		Black Creek—south	400
Doran's Creek	$\frac{2,800}{1,400}$	Electric Light Pond	400
Four Mile Creek	3.000	White's Mill Pond	1,600
	1,000	whites Mill Folid	500
Green Lake	1,000	Oxford	
Guppy Lake	1,000	Sutherland's Pond	1,000
Iron Lake	1,000	batheriand's I ond	1,000
Jocko River	15,000	Parry Sound	
Kioshqua Lake	3,000	Barrett's Creek	1,500
Lake Timagami	2,600	Barton's Creek	800
Little Cedar Lake	1,000	Bay Lake	1,400
Little Jocko River	5,000	Beaver Lake	1,750
Loon Lake	1,000	Bernard Lake	1,500
North River	13,200	Big Clam Lake	1,400
O'Connell Lake	1,400	Big Mink Lake	1,000
Sparks Creek	5,000	Black Creek	1,500
Spawning Lake	1,000	Boyne River	750
Tomiko River	3,200	Bradford's Creek	750
Twenty Minute Lake	4,800	Cheer Lake	750
Ukalet Lake	1,600	Clear Lake (Laurier)	2,200
Unnamed Creek, running from		Clear Lake (Perry)	3,400
Clear to Wilfrid Lakes,		Clear Lake (Wilson)	750
(Kenny Tp.)	- 3,200	Cummings Lake	750
Unnamed Stream—C.5, on		Deer Lake	1,400
Hurdman Creek	1,000	Deer Lake Creek	1,400
Unnamed Stream 30 m. S.W.		Deer River	750
of Timagami	700	Eagle Lake	2,250
White Partridge Lake	1,000	East Creek	800
Wolf Lake	1,400	Goose Lake	500
N 6 - 11-		Henry Lake	<b>1,2</b> 00
Norfolk		Hughes Lake	800
Ball Creek	1,000	Hungry Lake Creek	800
Boston Creek	2,100	James Creek	1,000
Cattle Creek	1,800	Jordon's Creek	500
Ellison Creek	1,800	Little East River	1,800
Glen Creek	1,800	Long Lake	1,500
Matthews Creek	2,800	Lynx Lake	1,400
McCool Creek	400	Magnetawan River	11,800
McMichael Creek  Nanticoke Creek	$\begin{array}{c} \textbf{1,800} \\ \textbf{700} \end{array}$	Mink Lake	3,000
	800	Owl Lake	750
Patterson Creek	800	Owl Lake	$\frac{1,500}{750}$
Northumberland		Ragged Creek	1.000
Baltimore Creek	4,000	Rat Lake	<b>2,2</b> 00
Bergman's Creek	4,000	Rock Lake	1,000
Black's Creek	4,000	Round Lake	2,800
Burnley Creek	8,000	Roussel's Creek	1,000
Chidley's Creek	100	Sand Lake	2,500
Dartford Creek	2,400	Sequin River	3,000
DeLong's Creek	2,000	Sharp's Pond	800
Dawson Creek	8,000	Shells Lake	981
Duncan's Creek	1,500	Spring Lake Creek	750
Heffernan's Creek	2,800	Stirling River	1.500
Hortop-Prentice Creek	4,000	Three Mile Creek	500
Little Cole Creek	4,000	Three Mile Lake	2,000
Mill Creek	200	Welch Lake	1,000
O'Grady's Lake	4,000	Widgen Lake	750
Piper's Creek	100	Wolf Creek	750

SPECKLED TROUT—Continu	ıed	Mackie Creek (Clara)	500
De al		Morphy's Lake Nadeau Creek	500
Peel	0.000	Paddy's Lake	$\frac{2,200}{3,000}$
Credit River	2,800	Petawawa Creek	224
Horan's Stream	1,800	Red Pine Lake	1,000
Detemberangh		Rock Lake (Algona)	300
Peterborough	1 000	Rocky Lake (Matawatchan).	2.400
Bethany Stream	1,000	Rocky Lake	1,000
Big Ouse River	9,600	Round Lake	2,000
Cavan Stream	8,600 4,800	Smith's Creek	4,400
Eel's Creek Little Ouse River	4,800	Smith Lake	1,000
Ouse Creek, and Upper Mill	1,000	Spring Creek (Wilberforce).	1,500
Pond	500	Stewart Creek	3,000
1 Oliu		Thompson Lake	2,400
Renfrew		Toohey Lake	1,500
Bass Lake	500	Turner Creek	5,400
Battery Lake	1,000	Twin Lakes	2,400
Biggs Creek	4,900	Wendigo Lake	$3,000 \\ 11,400$
Big Tucker Creek	3,000	wyne creek	11,400
Bissett Creek	3,000	Simcoe	
Black Creek	2,500	Bear Creek	1,200
Blackfish Bay	3,000	Black Creek	2,787
Black Lake	1,000	Boyne River	1,200
Black Donald Creek	1,500	Catawampus Creek	600
Buck Lake	500	Mathewson's Creek	2,000
Buriman Creek	3,000	Sheldon Creek	1,820
Cameron Lake	500 4.000	Sturgeon River	1,200
Carson Lake	$\frac{4,000}{3,000}$	Tenth Creek	450
Centers Lake Cochrane Creek	1.500	Willow Creek	4,913
Colton Lake	500	Sudbury	
Cotnam Creek	1,000	-	4.000
Cross Lake	3,000	Bertrand's Creek Bull Lake	$\frac{4,000}{1,000}$
Crozier Creek	3,000	Corston Lake	2,000
Dam Lake	1,500	Ella Lake	5,000
Deep Lake	2,000	Fournier Creek	4,000
Deux Rivieres Creek	3,800	Green Lake	2,000
Devils Creek	1,000	McLanders Creek	1,000
Dora Bay Creek	2,000	Pumphouse Creek	15,000
Eady's Lake	2,500	Rapid River	4,000
Echo Lake	1,500	Sandcherry Creek	4,000
Fountain Lake	$\frac{2,000}{3,400}$	Sauble River	1,000
Gardez Pieds Lake Gareau Creek	2,000	Trout Lake	1,000
German Lake	1,500	Veuve River	3,400
Godin's Creek	1.000	Wavy Creek	4,000
Grant Creek	3,500	Thunder Bay	
Green Lake	1,500	Allen Creek	1,500
Green Lake Creek	3,000	Allen Lake	2,000
Guardapia Creek	1,500	Anderson Creek	1,500
Gun Lake	2,500	Anderson Lake	2,500
Harvey Creek	1,500	Arnold Creek	1,500
Heart Lake	2,000	Arrow River	2,000
Heenan's Creek	1,500	Bass Creek	4,000
Helmers Lake	3,000	Bear Trap Lake	2,000
Hency Creek	$\frac{3,300}{2,000}$	Beardmore Lake	2,000
Hope Lake	12,500	Beaver CreekBig Duck Creek	2,000 4,000
Jack's Lake	2,400	Big Duck Lake	4,000
Josie Creek	3,500	Big MacKenzie River	14.000
Kawchaw's Creek	1,000	Binabeck Lake	1,500
Kelly Creek	3,600	Bishop Lake	2,000
Little Tucker Creek	1,000	Blend River	3,000
Locksley Creek	4,400	Blind Creek	1,000
Long Lake	1,000	Boulevard Lake	3,000
Mackey Creek (Head)	5,500	Brule Creek	7,000

SPECKLED TROUT—Contin	rued	Spring Lake (Dorion) Spring Lake (Leduc)	$\frac{3,000}{2,500}$
Thunder Bay-Continued		Squaw Creek	4,000
Cedar Creek	13,000	Surprise Lake	2,000
Clegg Lake	1,500	Trout Lake (Gorham)	6,000
Cliff Lake	4,000	Trout Lake (Stirling)	17,000
Coldwater Creek	3,000	Twin Lakes	2,000
Coldwater River	6,000	Twist Lake	2,000
Corbett's Creek	3,000	Upper Hunter's Lake	1,500
Cousineau Lake	2,000	Upper Morgan's Creek	2,000
Current River	14,000	Upper Pass Lake	7,000
Deception Lake	2,500	Upper Pearl Lake	2,000
Elgin Lake	3,000	Walker Lake	$\frac{2,000}{2,000}$
Fall Lake	$\substack{\textbf{1,000}\\\textbf{2,000}}$	Warnica Lake	1,500
Fawn Lake Gravel Lake	6,000	Whitefish River	1.500
Hidden Lake	2,000	Whitewood Creek	6,000
High Bluff Lake	1,000	Wideman Lake	2,500
High Lake	1,000	Wild Goose Creek	1,000
Howcum Lake	1,500		
Kaministiquia River	6,000	Timiskaming	
Knobel Lake	2,500	Beaver Lake	700
Lake Ada	500	Belle Lake	1,000
Lake Eva	2,000	Charlotte Lake	1,000
Little Lake	1,000	Crystal Lake	2,400
Little Partridge Lake	1,000	Dellmur's Lake	2,200
Little Paysplatt River	1,000	Driftwood Creek	1,200
Little Whitefish River	$\substack{2,000\\12,000}$	Emerald Lake	4,200
Longworth Lake	2,000	Fairy Lake	$\frac{1,000}{1,000}$
Loon Creek	1,500	Graham Creek	1,000
Loon Lake	10,000	Halfway Lake	1,200
Lower Hunter Lake	1.500	Hooker Creek	1,200
Lower Pass Lake	3,000	Jean Baptiste Lake	1,000
Lower Pearl Lake	2,000	Lake of Bays	850
Lynx Lake	2,000	Latour Creek	1,000
Mac's Lake	1,000	Little Otter Lake	1,000
McGregor Lakes	3,000	Loon Lake	2,800
McIntyre River	$\substack{6,000\\5,500}$	Lundy Creek	1,000
McVicar's Creek	2,000	Moffatt Creek	$\frac{1,000}{800}$
Mirror Lake	3,000	Pike Creek	1.000
Moose Creek	3,000	Rowley Lake	850
Moose Lake	3,000	Small Spot Creek	800
Morgan Creek	2,000	South Wabi Creek	1,000
Mountain Lake	500	Spring Creek	1,000
Navilus Lake	2,000	Spring Lake	4,200
Neebing River	12,000	Trout Lake	5,000
Nichaun Lake	1,000	Watabeag River	800
Nipigon River	18,000	Webb Lake	5,000
Oliver Lake	$\substack{6,000\\2,000}$	Whiskey Jack Creek	700
Parsons Lake Partridge Lake	1,000	Whitney Lake	1,000
Pass Lake	6,000	Victoria	
Pearl River	6,000		200
Pickerel Lake	2,900	Corbin's Creek Davis Lake	$\begin{array}{c} 200 \\ 500 \end{array}$
Pitch Creek	7,000	Union Creek	900
Rainbow Lake	2,000	onion oreck	500
Ring Lake	500	Waterloo	
Rock Lake	5,000	Cedar Creek	1,500
Sand Lake	2,500	Elora Creek	750
Sawmill Lakes	$\frac{2,000}{2,500}$	Erbsville Creek	750
Setting Duck Lake Silver Falls Creek	$\frac{2,500}{2,000}$	Mannheim Creek	400
Silver Falls Creek	3,000		
Silver Lake	1,500	Welland	
Spectacle Lake	2,000	Effingham Stream	800
Spring Lake (Conmee)	1,500	Sulphur Stream	400

#### SPECKLED TROUT—Continued

#### WHITEFISH FRY

SPECKLED TROUT—Conti	nued	WHITEFISH FRY						
Wellington		Kenora						
Bell's Creek Credit River O'Dwyer's Creek Rothsay Creek Saugeen River	3,000 1,200 300 1,000 7,200	Eagle Lake       1,000,000         Lake of the Woods       17,307,500         Separation Lake       1,000,000         Sydney Lake       1,000,000						
Speed River	1,000	Prince Edward Bay of Quinte						
York								
Doan's Pond	600	Rainy River Rainy Lake 36,700,000						
Sales—Demonstration & propagation purposes	16,530	Thunder Bay						
ADULTS		Lake Nipigon       1,500,000         Savant Lake       1,000,000						
Algoma		York						
Island Lake (Aweres) Island Lake (McMahon)	400 1,097	Lake Simcoe 2,500,000						
Grey		Great Lakes:  Lake Superior 9.493.000						
Bass Lake	100 100	Lake Superior       9,493,000         Lake Huron       31,650,000         North Channel       14,250,000         Georgian Bay       73,550,000						
Thunder Bay		Lake Ontario						
Coldwater River, Spring, Cedar, Tontan, Cold and Moose Creeks	2,300							
Wellington								
Keenan's Pond	100							
York								
Sales—Demonstration & propagation purposes	355							
HERRING FRY								
Frontenac								
Palmerston Lake Snake Island, St. Lawrence	500,000							
River	1,250,000 500,000							
Hastings Paudash Lake	1,000,000							
Lennox-Addington								
Otter Lake Weslemkoon Lake	625,000 625,000							
Prince Edward	2 700 000							
Bay of Quinte	3,700,000	•						
Great Lakes:	F 49F 000							

APPENDIX No. 2
DISTRIBUTION OF FISH ACCORDING TO SPECIES—1934 TO 1938, INCLUSIVE

ERZ en e i	1934	1935	1936	1937	1938
0.4					
arge-mouthed Black Bass					
Fry	35,250	130,000	45,000	135,000	57,500
Fingerlings	4,250 197	2,153 27*	8,398	4,120 92	8,061
mall-mouthed Black Bass					
Fry	365,500	696,000	780,000	1,275,000	804,000
Fingerlings	35,750 420	153,065 3,435	69,380 5,202	141,900 5,893	169,800 7,738
faskinonge—Fry	909,500	460,000	274,000	420,700	2,005,000
erch—Fry	95,000,000	53,031,400	46,080,000	9,150,000	59,150,000
Pickerel (Yellow)					
Eyed Eggs	5,000,000	2,000,000	2,000,000	2,000,000	2,012,500
Fry	278,470,000	229,629,000	300,759,500	263,743,400	271,567,500
Pickerel (Blue)					
Fry	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	1,000,000	500,000
rown Trout					
Fingerlings	138,000	109,000	147,050		
Yearlings Adults	14,500 689	9,650	7,290	97,484	<b>59,59</b>
ake Trout					
Eyed Eggs	402,000		3,209,400	3,225,000	2,437,00
FryFingerlings	1,265,000 14,045,450	7,773,034 14,564,000	4,165,000 18,253,244	4,667,000 15,782,350	7,665,00 10,575,20
andlocked Salmon (Ouananiche)					
Yearlings		13,640			
tlantic Salmon-Fry Yearlings				7,200	4,80
tainbow Trout					
Eyed Eggs	1,000				
Fry	4,480	104.005			
Fingerlings Yearlings	312,512 25,014	134,075 314	133,000 3,507	105,240	321,60 6,72
	25,014		3,301		
amloops Trout—Fingerlings		85,464 10,796		80,000	25,82
peckled Trout			•		İ
Eyed Eggs			28,600		1,00
Fry		1,645,000	182,000		
Fingerlings	6,257,267	5,013,831	1,053,050	384,725	373,31
Yearlings	34,762 1,652	35,421 5,420	557,270 6,081	1,167,073 16,150	2,083,53 4,45
hitefish—Fry	376,777,000	296,482,000	428,402,000	383,683,900	323,700,50
Eyed Eggs			112,500	4,000,000	
erring—Fry Eyed Eggs	17,512,000	43,760,000	56,120,000	5,270,000 30,000	49,725,00
olden Shiners	7,000	500			
Iiscellaneous				3,053	
10 m + 1 c					
OTALS	796,619,193	655,747,231**	862,401,472	696,395,280	733,265,64

<sup>\*</sup> Exhibition fish

3.07

<sup>\*\*</sup> This total does not include a distribution of 132,646,600 fry and eyed eggs during the five months immediately preceding the said report.

#### **APPENDIX**

#### GAME AND FISHERIES

Statistics of the Fishing Industry in the Public Waters of

#### **EQUIP**

Northern Inland Waters Lake Superior North Channel Georgian Bay Lake Huron Lake St. Clair Lake Erie Lake Ontario Southern Inland Waters			Tug	8		asoline unches		and Boats	Gili	Nets
		No.	Tons	Value	No.	Value	No.	Value	Yards	Value
			64 300 212 447 437	\$ 11,500 51,500 74,700 120,810 141,074 272,900	108 62	\$ 67,055 44,530 38,865 109,561 96,564 12,736 187,935 106,770 2,910	262 58 58 130 40 65 126 152 117	\$ 9,633 3,485 4,030 6,262 1,685 3,385 5,987 5,252 3,973	530,053 784,929 622,921 1,239,047 1,742,567 1,996,313 1,334,910 900	\$ 62,804 91,159 75,249 123,404 195,261  239,694 115,858
Totals	4,170	99	2,540	\$672,484	1036	\$666,926	1,008	43,692	8,251,640	903,474

#### **APPENDIX**

#### QUANTITIES OF

District	Herring	Whitefish	Trout	Pike	Pickerel (Blue)	Pickerel (Dore)	
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	
Northern Inland Waters Lake Superior North Channel Georgian Bay Lake Huron Lake St. Clair Lake Erie Lake Ontario Southern Inland Waters	1,855,500 1,723 47,293 186,714 1,374,499 1,230,559	1,433,479 311,718 185,682 1,196,159 205,230 150 1,001,788 602,337 11,136	1,667,822 626,072 1,426,874 1,747,281 29 275,811	710,402 8,174 85,460 43,077 94 21,537 20,231 104,636 10,176	14,205	1,302,169 75,534 53,467 124,625 180,419 47,705 509,495 14,976 4,440	
Totals	4,702,917	4,947,679	6,040,471	1,003,787	7,317,124	2,312,830	
Price per pound	.05	.11	.11	.06	.05	.11	
Values	\$235,145.85	\$544,244.69	<b>\$664,4</b> 51.81	\$60,277.22	\$365,856.20	\$254,411.30	

No. 3

#### DEPARTMENT, ONTARIO

Province of Ontario, for the Year Ending December 31st, 1938.

#### MENT

	Seine Nets		Pound Nets		Hoo	Hoop Nets		Dip and Roll Nets				light Lines Spe		Night Lines		ears		ezers & Houses			Total Value
No.	Yards	Value	No.	Value	No.	Value	No.	Value	No. Hooks	Value	No.	Value	No.	Value	No.	Value	vaide				
			45	\$ 14,710	63	\$2,135			2,400	\$490			143	\$32,600	113	\$12,173	\$213,100				
			57										42	16,725		9,825					
		\$ 770	94 82	39,350 72,545		720	• • • • • •		27.004	3.595	4		57	14,245 14,850		14,180 30,606					
5	900	\$ 110	114	74,350		120			13,536				55	23,505		7.160					
32	7,100	- 4.017	102	10.425				\$ 1	3,600					6,775		1.850					
44	12,200	8,605	618		10			3	2,100					131,660		25,075					
5	410				588	12,800	23	110	2,550	388	١		38	9,510	29	6,320					
45	4,162	2,935	• • • •		167	4,514	39	178	3,350	98	115	967	38	2,814	6	496	18,930				
	-					\$															
131	24,772	\$16,812	\$1,112	\$534,580	879	22,119  	64	\$292	54,540	\$7,550	119	\$984	539	\$252,684	399	\$107,685	\$3,229,282				

#### No. 4

#### FISH TAKEN

Sturgeon	Eels	Perch	Tullibee	Catfish	Carp	Mixed Coarse	Caviare	Total	Value
lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	
2,586 6,553 2,110 3,761 9,127	42,286 10,320	169,427	245,877 61,927 939 77,670 373,365		1,560 603 764 44,585 3,707 261,041 373,930 144,174 241,706	58,527 227,100 107,050 161,816 235,542 1,373,076 245,769	37 87 295 117 860	4,057,268 1,194,330 3,081,771 3,008,467 668,886	326,603.
157,582	52,606	2,977,846	759,778	474,058	1,072,070	3,091,352	3,841	34,913,941	
.40	.07	.05	.06	.08	.05	.03	1.00		• • • • • • • • • • • • • • • • • • • •
\$63,032.80	\$3,682.42	\$148,892.30	\$45,586.68	\$37,924.64	\$53,603.50	\$92,740.56	\$3,841.00		\$2,573,640.9

APPENDIX No. 5 COMPARATIVE STATEMENT OF THE YIELD OF THE FISHERIES OF ONTARIO

Kind	1937 Pounds	1938 Pounds	Increase Pounds	Decrease Pounds
Herring	4,153,582 5,518,388	4,702,917 4,947,679	549,335	570,709
TroutPike	6,098,993 1,040,940	6,040,471 1,003,787		58,522 37,153
Pickerel (Blue)	$9,449,521 \\ 2,136,177 \\ 93.041$	$\begin{bmatrix} 7,317,124 \\ 2,312,830 \\ 157,582 \end{bmatrix}$	176,653 64,541	2,132,397
Sturgeon Eels Perch	74,906 2,050,126	52,606	927,720	22,300
Tullibee	$\begin{array}{c} 947,120 \\ 535,692 \end{array}$	759,778 474,058		187,342 61,634
Carp	1,086,407 $2,905,451$ $2.528$	$\begin{array}{ c c c c c c }\hline 1,072,070 \\ 3,091,352 \\ \hline 3,841 \\ \hline \end{array}$	185,901 1,313	14,337
TOTALS	36,092,872	34,913,941		*1,178,931

<sup>\*</sup> Net Decrease

## APPENDIX No. 6 STATEMENT OF YIELD OF THE FISHERIES OF ONTARIO 1938.

Kind	Quantity Pounds	Price per Pound	Estimated Value
Herring	4,702,917 4.947.679	\$ .05 .11	\$235,145.85
Whitefish	6,040,471	.11	544,244.69 664.451.81
Pike	1,003,787 $7.317.124$	.06	60,227.22
Pickerel (Blue)	2,312,830	.05	365,856.20 254.411.30
Sturgeon	157,582	.40	63,032.80
EelsPerch	$52,606 \\ 2,977,846$	.07	3,682.42 148,892.30
Tullibee	759,778	.06	45,586.68
Catfish	$474,058 \\ 1,072,070$	.08	37,924.64 53,603.50
Mixed and Coarse	3,091,352	.03	92,740.56
Caviare	3,841	1.00	3,841.00
TOTALS	34,913,941		\$2,573,640.97

#### APPENDIX No. 7

## ESTIMATED VALUE OF FISH TAKEN FROM THE WATERS OF THE PROVINCE 1919—1938 INCLUSIVE

		11.01.02.11.
		1929\$3,054,282.02
1920	2,691,093.74	1930 2,539,904.91
1921	2,656,775.82	1931 2,442,703.55
1922	2,807,525.21	1932
1923		1933
1924		1934 2,316,965.50
1925		1935
1926	2,643,686.28	1936 2,614,748.49
1927	3,229,143.57	1937
1928	3.033.944.42	1938

### Thirty-Third Annual Report

OF THE

# Game and Fisheries Department

1939-1940

PRINTED BY ORDER OF THE LEGISLATIVE ASSEMBLY OF ONTARIO SESSIONAL PAPER No. 9, 1941



## TO THE HONORABLE ALBERT MATTHEWS, Lieutenant-Governor of the Province of Ontario.

#### MAY IT PLEASE YOUR HONOUR:

I have the honour to submit herewith for the information of Your Honour and the Legislative Assembly, the Thirty-Third Annual Report of the Game and Fisheries Department of this Province, for the year ended March 31st, 1940.

I have the honour to be,

Your Honour's most obedient servant,

H. C. NIXON,

Minister in Charge,
Department of Game and Fisheries.

Toronto, 1941.

#### THIRTY-THIRD ANNUAL REPORT

OF THE

### Game and Fisheries Department of Ontario

TO: THE HONOURABLE H. C. NIXON,

Minister in charge,

Department of Game and Fisheries.

SIR:-

I have the honour to submit to you in this and the following pages the Thirty-third Annual Report of the Department of Game and Fisheries, outlining the activities of various Departmental services and including statistical and comparative tables for the fiscal year ended March 31st, 1940.

#### INTRODUCTORY

More than ever before the conservation of our natural resources is of paramount importance, and wilful waste becomes a serious menace.

During the period under review the grim spectre of war, whose ugly form had on previous occasions cast a dark shadow over us, became a reality, and the peaceful pursuits of our normal lives have once more been directed, in large measure, to the prosecution of the war. Uppermost in our minds, perhaps, is the picture of a wartorn world in which sorrow, suffering and anxiety predominate; yet even this dreary picture is brightened somewhat by the heroism and self-sacrifice of those who are so bravely striving to maintain and strengthen their right to live in accordance with their national traditions.

The sportsman knows the economic value of our wildlife heritage, and is familiar with the part that wealth plays in the prosecution of a war. Therefore he has a definite and personal responsibility to see that these resources shall not be dissipated through unlawful means.

Possibly, there never was a time in the history of wildlife administration when the sportsmen of this Province were more deeply conscious of the necessity for exercising restraint, observing regulations and playing the game according to the best traditions, than just now. Education and organized effort have done much to bring about this happy state of affairs. No longer is it considered smart to disregard the provisions of the regulations which govern, for waste attributable to the display of such disregard destroys much more quickly than subsequent remedial measures can restore. Conservation as it affects the individual is more than law observance, although the latter is of primary importance, and is therefore mandatory. The ethics which apply are not written on the statute books, but are a voluntary contribution representing personal restraint and an attitude of mind which reflects true sportsmanship. Conservation and sportsmanship are closely allied.

It is a splendid sign to find sportsmen themselves through representative organizations pointing out to fellow sportsmen certain laws and fundamental principles with regard to their sport. Law observance is so essential to good govern-

ment and wise administration that the thoughtful man needs no special reminder of his duty in that regard. To the sportsman the laws which govern his sport are so necessary to its perpetuation that their observance is the best contribution the individual can make to the protection of the resources which make such sport possible.

We are anxious to make it clear to our American friends that the laws of the country have not changed so far as tourists are concerned, that the welcome sign is still displayed at our ports of entry and applies to all but enemy aliens, that instead of taxing American money there is a premium on same, which means quite a saving during a prolonged stay and that despite war conditions our food supplies are sufficient for all requirements. Insofar as hunting and fishing are concerned there has been no recession in our plans for maintaining and developing our resources.

Ontario's facilities for hunting and fishing are unsurpassed, and the regulations which apply provide a minimum of restriction and a maximum of sporting possibilities. These facts are well known to the thousands of visitors who annually sojourn among us and require no elaboration. However, it seems necessary to emphasize the fact that our hospitality is still unimpaired and our forests and waterways have lost none of their attractiveness. In short, visitors are assured of the same courteous reception and treatment as heretofore, and the war angle will but add to the thrill of the visit.

The tourist traffic has become one of the largest industries of the Province and its ramifications are such that, directly or indirectly, both urban and rural districts share in the revenue derived therefrom. This particular business has its stock-in-trade in those physical attractions and natural resources which are a part of our heritage, and from which we secure a great deal of material wealth.

Insofar as the Department of Game and Fisheries is concerned the year was one of progressive development. Fish culture operations were further expanded through the addition of more hatcheries and rearing pond facilities, and more pheasants were released than during the previous year. The fish and game resources of the Province are in better shape than they have been for a considerable period, and this is confirmed by the fact that departmental revenues reached the highest peak in our history.

FIN	(A N	CT	ΛT
PILIN	AL	U	$\Delta L$

	Revenue	Expenditure (Ordinary& Capital)	Surplus	
935-36	\$ 683,938.72	\$451,041.91	\$232,896.81	
936-37	782,217.63	474,128.95	318,088.68	
937-38	866,558.19	563,938.33	302,619.86	
938-39	914,475.24	575,437.79	339,037.45	
939-40	1,015,350,82	568,198,55	447,152,27	

The statistical table above set forth shows the total revenue and expenditure of the Department for the year reported on and for the four preceding fiscal years. It will be observed that there has been in each year a succeeding increase in revenue, climaxed in 1939-40 with a revenue exceeding the one million dollar mark, the first in the history of the Department. Details of the various sources from which this revenue was derived are indicated in the statement which follows:—

REVENUE FOR FISCAL YEAR ENDING MARC	H 31ST,	1940
ORDINARY—		
MAIN OFFICE—		
GAME—		
Licenses—		
Trapping\$	39,772.3	30
Non-resident Hunting	84,590.0	00
Deer	81,882.0	0.0
Moose	2,733.5	50
Gun	94,882.	18
Dog	5,550.0	
Fur Dealers	25,446.0	
Fur Farmers	9,583.	
Tanners	100.0	
Cold Storage	168.6	00
	344,707.4	48
Royalty	116,520.	
- PLOTED TO		<b>-\$</b> 461,227.88
FISHERIES— Licenses—		
Fishing (Commercial)\$	86,858.	00
Angling	391,504.0	00
	478,362.0	00
Sales — Spawn taking	168.9	93
Royalty	12,140.0	09
GENERAL		490,671.02
Licenses—		
Tourist Camps\$	7,445.0	00
Guides	8,276.0	00
\$	15,721.0	00
Fines	16,521.7	7 4
Costs Collected (Enforcement of Game Act)	726.1	11
Sales — Confiscated articles, etc	23,901.0	)2
Rent	3,738.6	
Commission retained by Province on sale of lic.	2,328.9	0 (
Miscellaneous	243.4	12
EXPERIMENAL FUR FARM—		- 63,180.84
Sales — Pelts		271.08
Net Ordinary Revenue		\$1,015,350.82

, Upon reference to the five-year revenue statement it will be observed that as compared with that of the previous year the revenue in 1939-40 shows an increase in excess of one hundred thousand dollars. The principal sources which contributed to this large increase were the revenues derived from fur royalties, the sale of trapping licenses and the sale of non-resident angling licenses. Increased revenue from fur royalties amounting to \$42,455.65, and trapping licenses amounting to a sum somewhat in excess of \$13,500.00, or more than fifty per cent in excess of the sum derived from this source in the previous year, was to a great extent due to the fact that after an entire close season of several years two limited periods of open season were provided for the taking of beaver, during which open season there was a catch of 33,530 of these animals upon which a royalty of \$1.00 per pelt was collected by the Department in accordance with existing provisions of the Game and Fisheries Act, and greatly increased catches during the regular open seasons which prevailed in the case of mink and muskrat were also factors in the increased revenue from this

source. The sale of non-resident angling licenses resulted in the collection of the total sum of \$391,504.00, an increase of more than \$52,000.00 as compared with the figure from the same source in 1938-39.

Total expenditures for the year, including both ordinary and capital, amounted in all to a sum of \$568,198.55, showing an operating surplus of \$447,152,27 for the period under review. Capital expenditures totalled \$10,095.43, of which amount \$3,933.47 was spent on improvements at the Departmental bird farms located at Normandale and Codrington, while the balance of \$6,161.96 was expended on various fish hatchery properties. The principal items of ordinary expenditure were \$219,-211.11 on the maintenance of the staff of regular and seasonal officers engaged in the work of providing enforcement of provisions of the Game and Fisheries Act and additional patrols during the fish spawning periods; and the sum of \$211,142.44 for the operation of the various fish hatcheries and rearing stations maintained by the Department in connection with the propagation and distribution of fish by the Fish Culture Branch, the details of this service being enumerated further along in this report. Expenditures additional to the two principal items to which reference has just been made include \$27,399.50 spent in connection with the purchase and distribution of game birds and animals for re-stocking purposes, \$21,506.20 of this total being for the purchase of some 26,500 live pheasants, which were liberated principally in the various Townships in southwestern Ontario counties established as Regular Game Preserve Areas; expenses under the Wolf Bounty Act were \$25,-058.12, actual bounty payments being in all \$24,905.00; while special grants paid by the Department in accordance with appropriations provided by the Legislature amounted to \$7,400.00, details of which are as follows: \$2,000.00 expended under the supervision of Professor W. J. K. Harkness in connection with biological surveys and research work in fisheries, particularly on waters in Algonquin Provincial Park; \$2,500.00 to the Ontario Fur Farmers' Association to assist the services of this organization in the development of the fur farming industry throughout the Province; \$1,000.00 to the Ontario Federation of Anglers to be expended in connection with their educational campaign to secure more improved co-operation along the lines of closer observance of provisions of the Fisheries Regulations; while the balance of \$1,900.00 was allotted to Mr. Jack Miner, Mr. Thomas N. Jones, and Miss Edith L. Marsh to encourage these interested naturalists in their work of bird protection on the sanctuaries maintained by them in the Counties of Essex, Elgin and Grey respectively.

#### GAME

The following table shows comparative details of the various hunting licenses, both resident and non-resident, which were issued during the seasons which prevailed, together with similar information for preceding years, and from which it will be observed that there was but little change in the numbers of such licenses which were disposed of during the year reported upon as compared with the numbers sold in the previous year:

	1936-37	1937-38	1938-39	1939-40
Resident Deer	15,394	18,672	21,762	21,416
Resident Deer (Camp)	262	283	307	323
Resident Deer (Farmers)	5,386	6,503	7,719	7,722
Resident Moose	542	580	471	497
Resident Gun	79,531	90,756	114,580	113,992
Non-Resident Deer	848	1,036	1,329	1,492
Non-Resident "General"	878	1,043	569	593
Non-Resident Small Game	1,129	1,634	1,618	1,567
Non-Resident Bear (Spring season).		30	49	108

At this point I desire to draw attention to the effort now being made by the Department to develop the interest of non-resident hunters in the possibilities of a successful bear hunt in this Province during the period between April 1st and June 15th, and, while the numbers of such licenses which have been sold for this privilege during the three years this has been in effect are not substantial, there are indications that knowledge of the policy is becoming somewhat more widespread, and there is every reason to believe that the increasing numbers of inquiries being received from interested hunters will eventually mean that considerably larger numbers will avail themselves of the opportunity for a splendid spring outing which is thus provided.

The following is a summary of conditions which apply to the various species of game animals and birds of the Province, compiled from reports received in the Department from the officers of the Enforcement Service:—

**DEER:**—The white-tailed or Virginia deer common to this part of the Continent continues to be quite plentiful in many sections of the Province, and the hunting of this species during the regular open season which prevails provides an opportunity for the sportsman to partake in a most enjoyable form of recreation. Reports indicate that so far as the northern and northwestern portions of the Province are concerned, generally speaking, conditions are quite favourable. There are, however, certain scattered sections in which the habitat is not conducive to the existence of deer and in which areas the herd is not at all plentiful. By reason of its easy accessibility extensive hunting is carried on in the northern districts of the southern part of the Province, nevertheless, deer in these areas continue to be plentiful, and in fact are showing quite an increase in their numbers in some areas.

In the counties included in the southwestern peninsula and in certain eastern counties there has been an entire close season on deer for the past several years. This complete protection has resulted in deer in these areas becoming quite numerous, and it is no unusual occurrence to see these animals as one travels along our highways. In Bruce and Grey Counties the increase has been so favourable as to warrant the provision of a limited open season there.

Hunters returning from the north have reported a satisfactory deer season. The general opinion was the deer were quite plentiful, increasing numbers of does and fawns being observed. This is the natural result of the present regulations which provide a large measure of protection to does and their young, while in addition to this protective measure the past few winters have been reasonably mild, and this has been an important factor in maintaining and developing the herd.

With a reasonable measure of protection and the co-operation of the general public to that end, the deer herd is quite capable of replenishing itself and taking care of all reasonable demands.

MOOSE:— The moose is the largest of the deer tribe found on the American continent. It is of majestic appearance, and a large spread of antlers adds to its value as a sporting trophy. It is to be found in the northern portions of the Province, though a few specimens are frequently seen in the districts of Muskoka, Parry Sound, Renfrew as well as in the sections immediately adjacent to Algonquin Park. Nowhere in Ontario, however, can they be described as plentiful, and restrictions for their protection which are in effect are necessary to ensure the perpetuation and rehabilitation of this species. In certain sections, such as the Districts of Cochrane, the northern portions of the Districts of Sudbury and Algoma, and the Districts of Thunder Bay, Rainy River and Kenora, they are reported to be fairly plentiful, but their future development will depend on many factors, particularly environment, for even the great northland is opening up before the ever progressive advance of civilization.

CARIBOU:— The caribou is a near relative of the reindeer of northern Europe and is the most useful though not the most comely of its race. It has few of the prepossessing physical endowments of the elk and none of the grace of the deer. Caribou are extremely scarce in the Province and are reported only from the Districts of Kenora, and Thunder Bay, as well as from the northern portions of the Districts of Algoma, Sudbury and Cochrane. Perhaps because of the fact that they have been completely protected for a number of years some slight increase has been noted in the eastern portion of the Thunder Bay District, more particularly in the territory which comprises the Superior Game Preserve, and in the Chapleau Crown Game Preserve located in the Districts of Algoma and Sudbury.

**ELK:**— The wapiti or North American elk is one of the largest specimens of the deer tribe. He is also without doubt the most beautiful and stately animal in all the deer family. Although of extremely large proportions his physical appearance is such as to immediately attract attention. The magnificent antlers often measure six feet in length and these added to a graceful and compact body give it a stately appearance.

The elk which are found in Ontario at present are those which were imported to the Province from Western Canada, and their progeny. The original shipments on arrival here were placed on the following Crown Game Preserves, viz: Pembroke, located in the county of Renfrew; Burwash, located in the District of Sudbury; Chapleau, located in the Districts of Sudbury and Algoma; Goulais River-Ranger Lake, located in the District of Algoma; and Nipigon-Onaman, located in the District of Thunder Bay.

There has been some improvement in practically all instances save one,—those liberated in the Nipigon-Onaman Crown Game Preserve. Specimens from the herd at Pembroke have previously been placed in Algonquin Provincial Park and on the Bruce Peninsula, and during the year under review others were liberated in the Nipissing and Peterborough Crown Game Preserves, while some animals from the herd at Burwash were liberated in territory adjacent thereto. It is reported that their numbers have increased in the Chapleau and Burwash Crown Game Preserves and also on the Bruce Peninsula, while some of these animals have been observed on Beausoleil Island in Georgian Bay.

BEAR:— Black bear are common throughout the northern portion of the Province, and are found to a lesser extent in many other sections specially among which are the Districts of Parry Sound, Muskoka, Haliburton, Renfrew, the northern part of Hastings County and in the Bruce Peninsula. These animals are both hunted and trapped though not extensively, but there is an indication that increasing numbers of non-resident hunters are becoming interested in the spring hunt for which provision has been made. Unquestionably the sportsman gets a great thrill out of bear hunting.

RABBITS:— Rabbits continue to provide many opportunities for wholesome recreation and sport, and more particularly is this so in the southern portion of the Province. In these southern counties cotton-tail rabbits are available in satisfactory numbers although bag limits have been introduced and the sale or purchase prohibited in some of these counties. The jack-rabbit (European Hare) is pretty well confined to the western counties, though this species is gradually extending its range to the east and north. The varying hare or snowshoe rabbit is to be found in most districts although it alone is the prevailing species in Northern Ontario, and while it is reported to be quite scarce in that area there are indications of some improvements from many sections there.

Rabbit hunting is a favourite activity of Ontario sportsmen during the fall and winter months. The "jack" is probably the most popular of the species because of its size, its great speed and the fact that it is to be found in open country which

makes the hunting easier. Its speed is its chief defence and it is not easily subdued.

Hunters should note that while rabbits are quite prolific breeders there is just as much danger of exterminating them through needless waste as any other species of game. This is particularly true in the more populous areas, where hunting is heavy and habitat restricted. Control is necessary to prevent damage to property, but game which provides such healthy outdoor sport at a minimum of expense is worth conserving.

PARTRIDGE:— The ruffed grouse, or partridge as it is more generally called, is a native bird and is found in varying numbers throughout the Province. In the more settled sections its numbers are very limited, and it is further subject to a cycle of scarcity and abundance which materially affects its permanent development. However, at the present time, the cycle appears to be on the up swing again and improvement has been noted, particularly throughout Northern Ontario, as well as in the northern section of the southern part of the Province.

The sharp-tailed grouse or prairie chicken is prevalent only in the north-western districts and even there this species is comparatively scarce.

The ruffed grouse is perhaps the fastest and most elusive of our upland game birds.

QUAIL:— These birds are found principally in the southwestern counties of Essex, Kent, Lambton and Middlesex and in the counties immediately adjacent to the eastern boundaries thereof, in which section they are fairly plentiful. Scattered bevies are also reported in some eastern counties, that is Stormont, Dundas and Glengarry.

PHEASANT:— The English ring-necked pheasant is a non-native bird. It was originally introduced to Ontario about half a century ago and since then has undergone a process of natural and artificial development which has served to firmly establish it in certain areas,—particularly in the southwestern part of the Province where the climate is not too rigorous. Because of the fact that climatic conditions are extreme over much of the Province it is unlikely that the pheasant will have an extended range. However, it has done so well where it has become established that open seasons have been the rule for a number of years.

In recent years the Department has enlarged and intensified its operations in connection with the propagation and distribution of pheasants and during the year reported on adult pheasants and poults numbering 30,396 were liberated in areas suitable for their development. Of this number 27,373 were distributed in Townships established as Regulated Game Preserve Areas, and the balance, 3,023 birds, in Counties not included in this Regulated scheme, principally Essex and Kent. The birds were allotted as they were available according to the area of the Townships concerned and the conditions prevailing therein. Details of the distribution are as follows:—

Regulated Game Preserve Areas: County of Brant, two Townships, 801 birds; County of Elgin, four Townships, 1813 birds; County of Haldimand, ten Townships, 3,824 birds; County of Halton, four Townships, 1909 birds; County of Lennox and Addington, one Township, 140 birds; County of Lincoln, eight Townships, 3,043 birds; County of Middlesex, two Townships, 1270 birds; County of Norfolk, four Townships, 1,940 birds; County of Ontario, three Townships, 1,185 birds; County of Oxford, one Township, 546 birds; County of Peel, four Townships, 1,797 birds; County of Prince Edward, one Township, 340 birds; County of Welland, eight Townships, 3,173 birds; County of Wellington, one Township, 370 birds; County of Wentworth, six Townships, 1,871 birds; and the County of York, six Townships, 3,351 birds.

General:— County of Essex, 1,970 birds, of which 1,582 were liberated on the mainland and 388 on Pelee Island; County of Kent, 929 birds; and the remaining 124 birds were distributed in four other areas.

**HUNGARIAN PARTRIDGE:—** These birds were also introduced to the Province from Europe, but have not yet become plentiful anywhere. So far as the north is concerned their numbers are negligible though evidence of their existence is reported from certain sections of Temiskaming, Algoma and Thunder Bay. They are most numerous in the very extreme southwestern counties, while reports indicate that they are becoming more plentiful in some of the eastern counties.

**DUCKS:—** Generally speaking, this species of migratory water-fowl provides quite a large proportion of the sport which is available to the hunter during any season, and the season is a reasonably long one. Practically every section of the Province has its quota of ducks during the period of migration. Restrictions affecting the taking of ducks have recently been provided with a view of affording greater protection. The results have been very beneficial and reports indicate that their numbers have increased. Regulations for the taking of ducks are provided by the Federal Government under the terms of the Migratory Birds Convention Act, a Treaty applicable in the United States and Mexico as well as in Canada.

Few have more than a passing acquaintance with the various species of North American ducks with the exception of one or two of the most common. Not all of these species are to be found in Ontario, but there is a wide variety, including the Mallard, Black duck, Gadwall or Grey duck, Pintail, Widgeon-Baldpate, Shoveller, Blue-winged Teal, Green-winged Teal, Wood duck, Bluebill, Lesser Scaup, Canvasback, Red-head, Golden-eye-Whistler, Bufflehead, Long-tailed duck, Old Squaw, Black Scoter, Velvet Scoter, Ruddy duck and Eider duck, some of which are quite common and others not at all plentiful. Of the various species herein enumerated only the Wood duck is provided the protection of an entire close season.

GEESE:— There are not many areas in Ontario in which these birds may be successfully hunted, and while they are observed in flight during the fall and spring migrations, in numerous sections the conditions which prevail during these migrations are such that during the open season which is provided, any hunting which is available is pretty well restricted to the James Bay shore in the far north, and to a few of the extreme southwestern counties. There are several different species of geese, of which the Canada Goose is perhaps the best known.

**WOODCOCK:—** This species is extremely scarce in Northern Ontario, and is none too plentiful in the southern portion of the Province. Reports from Departmental officers show the most favourable locations to be certain of the counties along the north side of Lake Erie.

**SNIPE:**— As in the case of woodcock, this species is quite scarce in Northern Ontario. They are reported to be somewhat plentiful in several southern counties, while increasing numbers are recorded in scattered areas a little farther north.

**PLOVER:**— These birds continue to be quite scarce throughout the entire Province though some slight improvement is reported from different areas in the most southerly counties.

During the year under review special Regulations were provided, details of which are as follows:—

(a) An open season for deer in that portion of the County of Carleton lying west of the Rideau River, from November 6th to November 20th, both days inclusive. General deer hunting regulations were effective.

- (b) An open season for deer in the Townships of Amabel, Albemarle, Eastnor, Lindsay and St. Edmund, in the County of Bruce, extending from November 13th to November 18th, both days inclusive. General deer hunting regulations were in effect during this period, except that the use of dogs was not permitted.
- (c) An open season for cock pheasants on Pelee Island, October 27th and 28th. Limit of five birds per day. Special municipal hunting license \$5.00.
- (d) An open season for cock pheasants in the various Township Regulated Game Preserve Areas, and in the various Townships in the County of Oxford, October 20th, 21st and 28th. Limit of three birds per day. Special municipal hunting license \$1.00 per day.
- (e) An open season for cock pheasants, quail and Hungarian partridge in the Counties of Essex (excluding Pelee Island) and Kent, October 20th, 21st and 28th. Limit of three cock pheasants, four quail and two Hungarian partridge per day.
- (f) An open season for partridge throughout the Province (excepting the Counties of Essex and Kent and the various Township Regulated Game Preserve Areas),—October 9th to October 14th, both days inclusive, and November 6th to November 11th, both days inclusive. Limit of five birds per day, and not more than fifteen during the two periods specified.
- (g) Prohibiting the hunting or shooting of any game on Pelee Island during the period October 21st to October 26th, both days inclusive.
- (h) Prohibiting the hunting of deer during the year 1939 in the Counties of Durham, Northumberland and Prince Edward, and in concessions IX and X of the Township of Cambridge in the County of Russell.

#### FUR-BEARING ANIMALS

Conditions as they apply to fur-bearing animals throughout the Province are summarized in the following references from reports submitted to the Department by members of the Field Service Staff:—

**BEAVER:**— Conditions as they affected this species of splendid fur bearer following the period of complete protection which had prevailed for the past few years were sufficiently satisfactory to warrant the provision of two short periods of open season. The regulations which governed the taking of beaver during these periods provided:—

(a) An open season from March 25th to April 15th, 1939, effective in that part of Ontario north and west of the French and Mattawa Rivers and Lake Nipissing, (including the District of Manitoulin) and in the Districts of Parry Sound, Muskoka, and Nipissing (south of the Mattawa River) and the Counties of Victoria, Haliburton, Hastings, Renfrew, Lennox and Addington, Frontenac and Lanark. Trappers were authorized to take not more than ten beaver, and pelts so taken were to be disposed of by them not later than ten days after the termination of the open season.

(b) An open season from December 1st to December 21st, 1939, effective in that part of Ontario north and west of the French and Mattawa Rivers and Lake Nipissing (including the District of Manitoulin), and in the Districts of Parry Sound, Muskoka and Nipissing (south of the Mattawa River) and the Counties of Grey, Victoria, Haliburton, Hastings, Renfrew, Lennox and Addington, Frontenac and Lanark. Similar provision as in (a) as to limits of catch and disposition prevailed.

A total of 33,530 beaver were reported to have been taken during these periods, and, while this would naturally decrease the stock, sufficient numbers remained for purposes of replenishment.

FISHER:— This animal is practically extinct in Southern Ontario, and is extremely scarce in Northern Ontario. Very few taken in any single trapping season.

F0X:— Reported to be quite plentiful and showing signs of increasing in all parts of Southern Ontario except in the lower counties in the southwestern peninsula where they are reported to be scarce. They are not at all plentiful in the northern portion of the Province, though there are scattered showings of improvement.

LYNX:— Prevalent only in the northern section of the Province, and even there its numbers are extremely rare. Reports received indicate no favourable change anywhere.

MARTEN:— Conditions similar to those for fisher and lynx. It is extremely scarce in every section of the Province and there is no improvement reported.

MINK:— While there was a considerable increase in the number of pelts taken during the season, this condition cannot be construed as representing an important increase in the numbers of mink which exist throughout the Province. They are not too plentiful anywhere and while reports of increasing numbers have been received from some areas, there has been no general improvement and conditions were about normal.

MUSKRAT:— Muskrat continues to provide a very substantial portion of the revenue derived by trappers. The catch as compared with that of the previous year showed an increase of more than 35%, possibly attributable to somewhat improved conditions affecting the species and the fact that favourable weather conditions prevailed during the trapping season, which was provided by special regulation and at different periods in different areas. Notwithstanding the decided increase in the take of muskrats this species requires continued protection to assist in its development.

OTTER:— Found only in Northern Ontario and the more northerly areas of Southern Ontario. It is not too plentiful in any section and the annual catch is limited.

RACCOON:— Inhabits only Southern Ontario, where numbers remained about the same with probable slight improvement in some areas. The catch during the open season which prevailed was about normal.

**SKUNK:**— While this animal continues plentiful, prevailing market prices do not encourage trappers to make any special effort for the taking of the same.

WEASEL:— This species is still very plentiful throughout the entire Province, though it would appear not to be increasing to any great extent. However, as in the case of skunk, prevailing market prices are not sufficient return to encourage trappers in the taking of weasel.

Generally speaking trappers had a fairly profitable season, particularly in areas where the special open season for beaver prevailed and having in mind the increased muskrat catch.

The following comparative table shows the numbers of pelts of various species of fur-bearing animals which were exported from and dressed within the Province during the year under review in addition to the three years immediately preceding.

	1936-37	1937-38	1938-39	1939-40
Bear	476	496	363	295
Beaver	238	235	1,366	33,530
Fisher	2,117	1,463	1,467	1,382
Fox (cross)	4,156	2,426	2,164	981
Fox (red)	35,232	24,912	22,366	19,925
Fox (silver or black)	360	201	131	101
Fox (white)	17	.47	142	36
Lynx	2,081	1,284	785	514
Marten	1,464	1,709	2.074	1,790
Mink	33,930	22,766	25,111	36,518
Muskrat	370,239	343,972	508,893	689,706
Otter	3,779	3,737	3,764	4.101
Raccoon	14,243	13,194	9,493	14,493
Skunk	87,950	61,576	89,100	74,176
Weasel	78,643	79.853	93,488	95,832
Wolverine	2	5	3	2

According to information compiled in the Department from reports received from various fur dealers it has been estimated that fur taken by trappers during the season of 1939-40 was worth the total sum of \$2,343,648.95, which is more than twice as much as the proceeds of trapping operations produced in the previous season. A large percentage of this increase was of course attributable to the proceeds received from the sale of 33,530 beaver pelts involved which pelts have been estimated to be worth \$581,745.50, and it may be interesting to note that practically all these beaver pelts were exported from the Province.

In addition to the \$2,343,648.95 derived from the sale of pelts taken by trappers, it has been estimated that the sum of \$1,050,463.55 was received by fur farmers from the sale of their product, so that in all the entire fur production of the Province was worth \$3,394,112.50

### FUR FARMING

During the year this industry continued to flourish, 1920 fur farms being licensed, an increase of seven per cent over the premises licensed in the previous year. Declaration of war just prior to the pelting season created some uncertainty and while only a few ceased operating entirely there was a general tendency to reduce breeding stock, especially silver fox.

Fur farming comprises, almost entirely, the propagation of foxes and mink. This year the mink gained an ascendancy over the silver fox. There were 1,000 fur farmers raising silver foxes in 1938 and 906 raising mink, whereas in 1939 there were 1,116 raising mink and only 918 raising silver fox, and while breeding stocks of silver foxes were reduced by twenty per cent mink increased in excess of five

per cent, and it is interesting to speculate the increase there might have been had normalcy prevailed.

The subjoined comparative table shows the total breeding stock retained on these licensed premises as at the first days of January in each of the four years enumerated:-

	1937	1938	1939	<b>19</b> 40
Beaver	21	25	2	4
Fisher	20	16	19	27
Fox (cross)	257	235	197	168
Fox (red)	207	140	120	96
Fox (silver or black)	23,869	24,848	22,923	18,327
Fox (blue)	0	0	98	209
Lynx	2	2	2	2
Mink	15,539	21,982	30,378	31,989
Muskrat	351	302	267	235
Raccoon	358	351	284	243
Skunk	5	9	6	10
Bear	15	15	15	15
Marten	4	11	15	19
Otter	0	0	0	2

The fur records of the Department show that licensed fur farmers during the year disposed of the following pelts taken from stock raised by them, viz:—

205 cross fox, 128 of which were exported and 77 tanned.

38,889 silver and black fox, 23,399 of which were exported and 15,490 tanned.

73 blue fox, 61 of which were exported and 12 tanned.

60,355 mink, 57,630 of which were exported and 2,725 tanned.

### CROWN GAME PRESERVES

During the year four Crown Game Preserves were established in southwestern Ontario in accordance with the schedule appended hereto. In addition the area of the Peasemarsh Crown Game Preserve, located in the County of Grey, was enlarged. The number of these Crown Game Preserves in the Province now totals 121 covering an area of approximately 6,101,029 acres.

Designation	County	Extent in Acres
Roselands Crown Game Preserve	Halton	1,200
Oakland Crown Game Preserve	Brant	1,200
Peasemarsh Crown Game Preserve	Grey	1,050
Waterloo Crown Game Preserve	Waterloo	1,000
J. W. Crow Sanctuary	Norfolk	800

## REGULATED GAME PRESERVE AREAS

The setting aside of certain townships as Regulated Areas had a two-fold purpose, viz:—to ensure a larger measure of co-operation between the farmer and the sportsman through establishing an additional amount of control and avoiding excessive hunting in any one area; and the development of upland game birds, principally pheasants, through intensive propagation and the added degree of protection which pertains in these areas. Co-operation is stimulated by the fact that hunting in these regulated townships is restricted, and control is exercised by the simple expedient of requiring the hunter to provide himself with a special township license. These are limited in numbers so far as non-residents of the township are concerned, so that the general influx of outsiders to any one district is checked.

It should be noted that these Regulated Townships have been set aside at the request of the municipal authorities concerned, and that they have endorsed the regulations provided as tending to eliminate the friction which previously existed. The Township Councils, in view of the restrictons in force, are discouraging the posting of private lands as the success of the scheme depends upon the generous provision of hunting facilities during prescribed open seasons.

As some confusion still exists in the mind of the sportsman as to the regulations which apply, let us briefly summarize these. In the first place, these regulated areas are closed to hunting except as prescribed by the Department. Provision has therefore been made to provide an open season for pheasants and the necessary special licenses are issued for this purpose. Intense propagation of pheasants has been carried on by the Department and hundreds of birds released in each Regulated Township, in order to ensure the success of this open season. Hunters, however, must provide themselves with one of the special licenses for the township in which they desire to hunt, and must confine their pheasant shooting to the township for which the license has been purchased.

In addition to the pheasant hunting this special township license entitles the holder to hunt rabbits between November 1st and February 28th in any regulated township within the same county as that for which he possesses a pheasant license.

It will be obvious that such a Regulation provides a measure of control against overcrowding, while at the same time it offers the sportsman extensive hunting facilities within a defined area.

Other forms of hunting in these regulated townships are at the discretion of the controlling organization. Groundhog shooting, for example, may be indulged in only with the written consent of the controlling organization which is usually the township council, and the possession of the groundhog license issued by the Department.

The controlling organization in each area may also authorize the shooting of woodcock during the open season for same, but the hunter must be in possession of the regular gun license issued by the Department and the written approval of the controlling organization.

There is only one exception to the restrictions. It provides that nothing in the regulations "shall in any way apply to prohibit the hunting of wild ducks and wild geese on any Regulated Game Preserve Area where such hunting is carried on in accordance with the provisions of the Migratory Birds Convention Act and Regulations and the Game and Fisheries Act; and except that this provision shall not apply in the Township of Scarborough, County of York." The Township of Scarborough is part of the York Sanctuary for Migratory Birds. The onus of proof that he was duck hunting would be on the hunter and the suitability of the area for such must be established.

The restrictions in these areas do not apply to the trapping of fur-bearing animals, provided such is carried on in accordance with the provisions of the Game and Fisheries Act, and no firearms are used for the purpose.

We hope it will be clear to the sportsman that regulations and restrictions such as are enumerated are the result of changed conditions which must continually be faced. The land is no longer virgin forest; the public domain continues to shrink; and private ownership has rights which must not be abused. Then, too, as the country develops the population increases, and the numbers of those interested in hunting grows apace. This combination of circumstances does not lend itself to that freedom of movement in pursuit of game which has been our privilege for generations past. Gradually, therefore, we have experienced a tightening up in the interest of the game as well as the hunter. In the case of the regulated townships a compromise has been effected, which, if it receives the co-operation of all those most concerned, will do much to foster the good relations which should exist between farmer and hunter.

Additional Townships incorporated into the scheme of Regulated Game Preserve areas during the year 1939, are as follows:—

The Township of Marysburg South, in the County of Prince Edward;

The Townships of Pickering, Whitby, and Whitby East in the County of Ontario;

The Townships of Gwillimbury North and Vaughan in the County of York;

The Townships of Albion and Toronto Gore in the County of Peel;

The Townships of Esquesing and Nassagaweya in the County of Halton;

The Township of Puslinch in the County of Wellington;

The Townships of Middleton and Walsingham North in the County of Norfolk; and

The Townships of Aldborough and Malahide in the County of Elgin.

### WOLF BOUNTIES

The following is a comparative table of condensed wolf bounty statistics for the current fiscal year and the three years preceding:—

Period	Timber	Brush	Pups	Total	Bounty & Expenses
For year ending Mar. 31, 1937	1,090	1,197	31	2,318	\$33,360.63
For year ending Mar. 31, 1938	1,022	837	30	1,889	27,474.24
For year ending Mar. 31, 1939	1,031	723	41	1,795	25,357.00
For year ending Mar. 31, 1940	1,107	614	22	1,743	25,058.12

Bounty is paid under the authority of the Wolf Bounty Act, R.S.O. 1937, chapter 355, which provides for basic rates of bounty, the same as in recent years, viz:—\$15.00 on an adult and \$5.00 on pups under the age of three months. In respect to wolves killed in a County, bounty is paid by the County Treasurer, and forty per cent of such bounty is rebated to the Counties by the Provincial Treasurer. In the northern Districts the total bounty is paid by the Province.

During the fiscal year under review 1,316 claims were considered, in which 1,301 claims were paid. Fifteen claims on animals other than wolves or in cases where insufficient evidence was submitted were rejected.

Bounty was collected by 1,012 persons, who received \$25,925.00 of which \$1,020.00 was paid by Counties and \$24,905.00 by the Province.

Application for bounty was made on 1,753 wolves, 474 of which were killed by farmers, 443 by trappers, 405 by Indians, and the balance by rangers, guides, etc. It has been ascertained from information supplied with the various applications for bounty that 837 of the wolves were taken by snares, 387 by trap, 347 were shot, 84 by methods not reported, and the balance by poison and misadventure. Of the pelts

submitted for bounty sixty-three per cent were timber wolves, thirty-five per cent brush wolves, and two per cent were pups.

The  $f\underline{o}$ llowing table sets forth in detail the sources of origin of the various pelts for which application for bounty was made:—

ANALYSIS OF APPLICATIONS FOR WOLF BOUNTY

County or District	Number of Timber	Number of Brush	Number of Pups	Total Pelts
Algoma Bruce	143 6	85 6	3	231 12
CochraneElgin	$\begin{array}{c} 24 \\ 1 \end{array}$		• • • •	$\begin{array}{c} 25 \\ 1 \end{array}$
Frontenac	$\frac{3}{2}$	4 3	<u>1</u>	7 6
Haliburton Hastings	22 9	2		$\begin{array}{c} 24 \\ 9 \end{array}$
Huron Kenora	272	1 94	7	$\begin{array}{c} 1 \\ 373 \end{array}$
Kent		$\frac{1}{2}$		1 2
anark Lennox and Addington	8 11	7		8 18
Manitoulin	22 32	87 2	11	120 34
Vipissing	111	27 4		138 4
Ontario Parry Sound	80	$\frac{1}{2}$	• • • •	82
Patricia Perth	28	9 1		37 1
Peterboro	6 95	123		$\begin{array}{c} 6 \\ 218 \end{array}$
Renfrew	20 12	1 4		$\begin{array}{c} 21 \\ 16 \end{array}$
dudbury	67 137	85 64		152 201
Victoria	• • • •	3 1		3 1
Totals	1,111	620	22	1,753

Total expenditures which were incurred in connection with the administration of the Wolf Bounty Act were the sum of \$25,058.12, of which as has been previously stated, the sum of \$24,905.00 was actually paid out as bounty, and details of which payments are set forth in the following table:—

Brush Wolves		@ \$ 6.00       \$ 228.00         @ \$15.00       \$ 8,640.00	
	614		\$ 8,868.00
Timber Wolves		@ \$ 6.00\$ 450.00 @ \$15.00	
	1,107		\$15,930.00
Pups		@ \$ 2.00       \$ 2.00         @ \$ 5.00       \$ 105.00	
	22		\$ 107.00
TOTAL	1,743		\$24,905.00

### GENERAL

#### TOURIST OUTFITTERS:

The licensing of camps in Northern Ontario, in the area provided by the Game and Fisheries Act was continued. The demand for accommodation encouraged some expansion. Sixty-five permits were issued authorizing the establishment of new camps. Six hundred and forty-two camps were licensed—a net increase of twelve per cent.

District	Licenses			
District	Non-Resident	Resident	Total	
Algoma	9	83	92	
Cochrane		5	5	
Kenora	22	123	145	
Manitoulin	3	52	55	
Nipissing	9	90	99	
Parry Sound	. 6	107	113	
Patricia		2	2	
Rainy River	5	22	27	
Renfrew		10	10	
Sudbury	3	59	62	
remiskaming		3	3	
Thunder Bay	3	26	29	
Total	60	582	642	

#### DEPARTMENTAL BULLETIN:-

Conservation, as applied to wildlife, depends for its success upon public appreciation of wildlife values and an understanding of the necessity for co-operation with the Department in the many phases of its activities designed to ensure that these values will not be impaired. As a means of developing and encouraging both of these factors, the Department prepares and publishes a Bulletin covering all aspects of the conservation programme. It deals with the work of propagation and restoration and the many problems incidental to the protection and development of wildlife. It is intended to be educational as well as informative and contains life history sketches of the more important species of fish and game, as well as editorials emphasizing the value of conservation and the part the public is expected to play in supporting the work of the Department. It is non-technical in language and as a consequence has a wider public appeal. During the year it appeared at regular bi-monthly intervals with a circulation of over 1600 per issue which included the newspapers of the Province and an extensive mailing list of sportsmen and other individuals. As the material published in the Bulletin is frequently quoted in the press its sphere of influence extends beyond the limits of its mailing list.

### GAME AND FISHERIES ACT:-

The Game and Fisheries Laws are an important part of the general programme of conservation. They are intended not only to regulate supply and demand, but also to ensure that natural reproductive periods will not be interfered with. Where closed seasons are in effect there is a sound biological or practical reason for same, and where open seasons are restricted it is because the particular species involved will not stand any excessive take over a lengthy period. Limits of catch and size where such are involved, are regulatory measures intended to control by providing for a reasonably equitable distribution of the available resources. A moment's thought will convince even the most indifferent that these regulations are of primary importance in the interest of the sportsman himself and the administration of the resources. That

being so, it is essential that the public should be familiar with them, and that all those who hunt or fish should strictly observe the regulations. To play the game fairly according to the rules is the first essential to good sportsmanship. When, therefore, the public is urged to observe the laws it is a request for co-operation in the management of a valuable trust. Non-observance of the regulations, however unimportant the details may seem, is unfair to that ever-increasing family of sportsmen and nature lovers who conscientiously obey the laws and pursue their recreational pleasures from the highest standard of sportsmanship.

There is an additional reason why the public should accept an ever-increasing share of the responsibility for the protection and proper use of of our wildlife resources: we refer to their value—material and recreational. The material worth of this important heritage cannot be properly computed but it is not too much to suggest that thousands of our citizens derive their livelihood either directly or indirectly from this natural resource. The commercial fishing industry, the fur business, transportation companies and tourist caterers—all these are directly interested, but in addition there are the allied industries which supply food, equipment and the requirements of transportation and accommodation. This natural heritage is rich in material wealth, and, being capable of renewing itself, becomes a perpetual annuity which only our own shortsightedness will dissipate.

Amendments enacted by the Legislative Assembly and which became effective during the year included the following provisions:—

- (a) The pelts of bears taken by licensed hunters not to be subject to the payment of royalty when exported or tanned.
- (b) Prohibiting the use of snares for any purpose in the Counties of Dundas, Durham, Glengarry, Lanark and Stormont.
- (c) Applicable in the Counties of Elgin, Haldimand, Middlesex, Oxford, Waterloo, Lambton and Welland, a daily limit of catch of six cotton-tail rabbits and prohibiting the sale or purchase of these animals.
- (d) Prohibited hours for shooting to extend during the period between one-half hour after sunset and one-half hour before sunrise.
- (e) Permitting the use for hunting purposes of an automatic shotgun so permanently plugged as to be capable of holding not more than three shells at one time.
  - (f) Prohibiting the possession or use of rifles during the open season for pheasants in areas where the said open season prevails.
  - (g) To provide that shipping coupons be attached to deer and moose hides during transportation.
  - (h) To provide for the issuing of special permits to authorize the transportation of the skins or pelts of fur-bearing animals by aeroplane or by any other manner other than by express or parcel post; and providing a penalty for any violation of this Section.
  - (i) Authorizing non-residents to include not more than fifty wild geese lawfully killed by them among the game they are entitled to export in any one season.
  - (j) Providing a penalty of not less than \$10.00 and not more than \$100.00 for each maskinonge taken contrary to the Regulations which apply.
  - (k) Making it necessary to secure the approval of the Department before any lease may be issued subsequent to the promulgation of this Regulation granting exclusive fishing rights to any person in any stream or lake which has been stocked with fish by the Department at any time after May 1st, 1934.

## ENFORCEMENT SERVICE

To protect the resources which make hunting and fishing possible it is necessary to maintain a large number of law enforcement officers. To curb game law violators is just as essential as restocking our lakes and streams, and the pity is that it should be necessary. The regulations are restrictive only as necessity demands, while the limits are generous enough to satisfy all reasonable requirements. That being so there appears to be little reason for violations, and yet the toll of destruction by illegal means is too high to lightly pass over.

It will be obvious to the sportsman who is concerned with the future of his sport that waste and extravagance are unnecessary evils which tax to the limit the reproductive capacity of our wild life, aided by artificial propagation, to maintain a normal supply to meet what, after all, is an abnormal demand. In order that our fish and game resources may be wisely used for the benefit of the greatest number, protective measures, and protective officers to enforce these regulations are necessary, but these can only function effectively when backed by the co-operation of the sportsman and the weight of public opinion.

This enforcement service is provided by a staff of some ninety regular overseers, whose services are augmented by the co-operation of members of the Ontario Provincial Police Force, while during the critical spring spawning period and in the fall hunting season the services of sixty-two seasonal employees were retained to provide additional patrol in the more important spawning and hunting areas.

Appointments as Deputy Game and Fisheries Wardens were provided to more than nineteen hundred sportsmen who interest themselves in providing whatever assistance it is possible for them to render in securing effective observance of the various provisions of the Game and Fisheries Act and Regulations in the areas in which they reside and visit for recreational purposes, and the value of this co-operation in controlling and preventing the abuse of sporting privileges it is difficult to estimate.

During 1939-40 there were some 1,779 cases in which offenders were apprehended by the various enforcement officers and in which cases various articles of fishing, hunting and trapping equipment, game, fish and the pelts of fur-bearing animals were seized at the time of apprehension. Reference to the various reports of seizure submitted to the Department by the officers concerned indicates that such seizures were made by Game and Fisheries Overseers in 1,578 cases, by Deputy Game and Fisheries Wardens in 75 cases, by members of the Ontario Provincial Police force in 32 cases, while in the remaining 94 cases the seizures were undertaken by cooperative action among Overseers, Deputy Game Wardens and Provincial Police.

Summarized the articles confiscated are as follows:-

Live animalsin	11	cases
Birds, game animals and meatin	189	cases
Firearms and ammunitionin	651	cases
$Fish \ \dots \dots in$	235	cases
Nets and Fishing equipmentin	257	cases
Fishing tackle (angling)in	130	cases
Pelts and Hidesin	346	cases
Traps and Trapping equipmentin	179	cases
Water Craftin	28	cases
Motor Vehiclesin	9	cases
Lightsin	26	cases
Spearsin	71	cases
Miscellaneous articlesin	60	cases

By reason of the fact that various entries are included on some seizures there is some apparent discrepancy in these figures when compared with the actual number of seizures reported. This is explained when it is understood that reports in many cases include traps and pelts, firearms and game, fishing tackle and fish, commercial fishing nets and boats, furs and motor vehicles, traps and pelts, and lights, spears and fish.

Included among the furs which were seized were 325 beaver, 29 fox, 97 mink, 1,067 muskrats, 11 otter, 53 raccoon, 80 weasel and smaller lots of skunk, fisher, marten and bear, while some 82 deer hides were also seized.

The firearms seized included 103 heavy calibre rifles, 286 .22 calibre rifles, 115 single barrel shotguns, 118 double barrel shotguns, 44 repeating shotguns, 2 automatic shotguns, 3 revolvers and 15 air guns.

Prosecution was undertaken in 1,387 cases, the actions being instituted by Game and Fisheries Overseers in 1,315 cases, by Provincial Police in 56 cases, by Deputy Game Wardens in 13 cases and by co-operative action in 3 cases. In 1,303 of these actions convictions were registered, 69 charges were dismissed, and in 15 cases the charges were withdrawn.

### THE FISH CULTURE BRANCH

Fish are of absorbing interest to many people. The small boy takes as much pride in his string of perch or catfish as the man in his trout or black bass. Even the angler who has patiently endeavoured to land a fish and returns home empty-handed, carries with him the memory of pleasant and beautiful surroundings. Peaceful hours spent in hopeful vigilance are a wonderful mental incentive and the imagination is given valuable exercise.

The hardy fisherman who wrestles a livelihood from the vast waters of the Great Lakes and other commercially fished waters is chiefly concerned with the size and maintenance of the catch, amount and condition of gear, market value of fish, price of ice, salt, gasoline, and the state of the weather.

Among others interested in Ontario's fish and fisheries are the retailer, consumer and government agencies.

Our Department has been careful to see that the fish are properly conserved and, by means of protective and propagatory measures, the supply has been maintained at a high level.

## HATCHERIES AND REARING STATIONS

Facilities were provided during the fiscal year 1939-40 for the hatching, rearing and distribution of fish in a satisfactory and effective manner.

During the year the Department operated twenty-seven hatcheries and rearing stations.

The new trout rearing station at Hill's Lake, vicinity of Charlton, Timiskaming district, was operated for the first time. This station includes a modern fish hatchery of adequate dimensions, consistent with an adequate and suitable water supply. The hatchery proper can accommodate three million trout eggs in a satisfactory manner. Fifteen raceways and four ponds are provided for rearing large numbers of trout to the fingerling and yearling stages. In addition to these a pond is provided for parent trout in order to maintain a satisfactory egg supply, thus making the hatchery self-sustaining.

Temporary and subsidiary ponds were constructed in the vicinity of Brighton, Northumberland county, to accommodate surplus trout during the fry and fingerling stages.

The Belleville fish hatchery was dismantled since the operations conducted there can be carried out more economically and effectively at the Glenora fish hatchery, by making use of the Belleville equipment.

The construction of ponds for bass propagation is of very great value by supplementing the work of nature in maintaining this very desirable game fish. Three additional ponds were used for bass propagation at the Sandfield station, Manitoulin Island, five at the Skeleton Lake station, Ullswater, Muskoka district, and one in the vicinity of Havelock, Peterborough county. Nine of these ponds were used for wintering trout fingerlings for distribution as yearlings the following spring.

A hatchery and pond located at the outlet of Deer Lake, vicinity of Havelock, Peterborough county, were successfully used for the first time for the propagation of maskinonge, in conjunction with a minnow forage pond. In addition to this, a suitable area comprising approximately ten acres was set aside on Stony Lake, Peterborough county, for the purpose of studying in an experimental way the conditions required for the successful production of maskinonge in natural areas.

## THE CULTURE AND DISTRIBUTION OF FISH

Generally speaking, excellent progress was made in the culture and distribution of the various species of fish handled. In this regard particular mention is made of speckled trout, brown trout, small-mouthed black bass, maskinonge and yellow pickerel, since the year's distribution of these species surpassed all previous records. For the first time in the history of the Department, maskinonge were reared to sizeable fingerlings by the pond method.

#### Speckled Trout:

The following statistics indicate the success being achieved and the progress made in regard to the culture and distribution of yearling and older stages of this important native fish.

1936	 563,351
1937	 1,183,223
1938	 2,087,990
1939	 2.982.874

In 1939, three hundred and thirty-seven thousand fingerlings were also distributed. The distribution of fingerlings is undertaken if the number on hand cannot be accommodated in the hatcheries.

#### Brown Trout:

During the year, 375,070 yearlings and 29,954 fingerlings were planted in suitable streams in southern Ontario. The number of yearlings planted was more than six times that of the previous year. A comparatively small number of fingerlings were also planted. The result of the distribution of brown trout on the fishing in streams of southern Ontario is most encouraging.

#### Rainbow Trout:

#### (a) Steelhead trout

Good progress was made in regard to the rearing of rainbow trout yearlings; an increased production of 244 per cent was obtained as compared with that of the previous year.

### (b) Kamloops trout

An increased distribution of fingerlings of this valuable game fish, amounting to 306.6 per cent, was obtained. The plan suggested in the previous annual report of the Department, namely, to plant yearlings of this variety is being developed satisfactorily and may be realized next year.

### Lake Trout:

There was a decrease of 10 per cent in the distribution of the sum total of eyed eggs and fry; and a decrease of 5.8 per cent in the distribution of fingerlings.

Rough and stormy weather on the Great Lakes in the fall of 1938 was responsible to a great extent for this reduction. The Department relies entirely on the collection of lake trout spawn by the commercial fishermen, assisted by the Department's hatchery officers and spawntaking crews.

### Whitefish:

There was an increase of approximately 0.9 per cent in the distribution of whitefish fry as compared with that of the previous year.

### Herring:

The distribution of herring fry was reduced by 22.5 per cent. Fluctuations in the number of herring fry available from year to year may be correlated with the size of the run and weather conditions.

#### Yellow Pickerel:

There was an increased distribution of fry amounting to approximately 20.6 per cent over that of the previous year.

Following the usual practice approximately two million eyed eggs were handled by the Sparrow lake hatchery, the fry being distributed in suitable places in Sparrow lake.

Eyed pickerel eggs were exchanged with the State of Pennsylvania for eyed brown trout eggs.

#### Small-mouthed Black Bass:

Exceptionally good progress was made in the culture of small-mouthed black bass. The percentage increases of fry and fingerlings were 72.4 and 33.3 per cent, respectively.

As a result of bass harvesting operations, approximately the same number of yearlings and adults were distributed as in the previous year. The harvesting operations were carried out on Fox Lake, Kenora district; Bass lake, Rainy River district; and Little Gull Lake, Haliburton county.

A number of large-mouthed black bass fingerlings were harvested from Wiltse Creek, Leeds county, and Stony lake, Peterborough county.

#### Yellow Perch:

The distribution of perch fry showed an increase of 22.3 per cent over that of the previous year, due to a good run of this desirable commercial species in the vicinity of their natural spawning grounds at the west end of Lake Erie.

The perch eggs were collected in the vicinity of Kingsville under supervision of our hatchery officers, and cultured to the fry stage in the Kingsville hatchery. In view of the commercial value of the perch, this work is of considerable importance.

#### Maskinonge:

The distribution of maskinonge fry was approximately 33.4 per cent greater than that of the previous year. This was due to the successful operation of the new hatchery located at the outlet of Deer Lake, vicinity of Havelock, Peterborough county.

For the first time in the history of the Department, maskinonge fingerlings (three to eight inches in length) were reared by the pond method. Although the number reared, namely 1,300, appears small, it should be remembered that this was an initial trial, and gives promise of greater success in the future.

Our previous experiments revealed that there were two important factors which should not be overlooked in the culture of maskinonge, namely:

- (1) Providing a suitable and abundant food supply
- (2) Preventing cannibalism, which invariably occurs in the absence of protection or lack of proper food staples.

A culture of Daphnia was introduced and the pond was fertilized with suitable quantities of sheep manure and superphosphate throughout the season. A typical maskinonge environment was simulated as closely as possible by planting aquatic and semi-aquatic vegetation. Special efforts were made to provide as much leafy vegetation as possible in order to protect the young maskinonge from each other and from other predators.

A small pond adjacent to the maskinonge pond was used for the culture of the blackhead minnow. The progeny of this important forage fish was used as food for the growing maskinonge throughout the season. It was found necessary to supplement the food requirements with minnows harvested from natural waters.

In addition to this experiment, an effort was made to determine the possibilities of rearing maskinonge to fingerling sizes in a natural area. Dr. Paul F. Elson of the Department of Biology, University of Toronto, undertook this particular phase of the field work under the supervision of the Department. The area selected was a marshy bay about ten acres in extent, located on Stony Lake in the vicinity of Burleigh Falls, Peterborough county. The area was closed off from adjacent waters by barriers across the two ends, which were respectively 50 feet and 150 feet wide. were placed in the barriers to allow circulation of water. The area is a natural spawning ground for maskinonge and, hence, should be suitable for raising these fish. The water throughout the area is from three to five feet deep; the bottom is deep muck, permitting a rich growth of weeds. When the area was closed off, coarse fish and other predators were netted out, sometime before and after the maskinonge fry were planted. Altogether 17,883 coarse fish and 563 turtles were removed from the area. Less than one-third of the coarse fish, and slightly over one-half of the turtles, were removed previous to the planting of the maskinonge fry. On June 4th, 100,000 maskinonge fry, about three weeks old, and approximately five-eighths of an inch long, were planted throughout the area in locations where natural food was most abundant. At this time they were feeding on small aquatic animals, including water fleas. These crustacea were present in vast swarms near patches of cat-tail and marsh grass. About mid-June the maskingonge commenced to feed on minnow fry, which were abundant. Growth of the young maskinonge under natural conditions is amazing, as is indicated by the following table:

Date	June 6	July 5	Aug. 1	Sept. 1	Oct. 1	Nov. 1
Length of fis	sh				•	
in inches	5/8"	3"-5"	4"-7"	6"-8"	7"-9"	8"-11½"

Seventeen fish taken in November averaged between  $9\frac{1}{2}$  to 10 inches in length. The results of the first season's work may be summed up as follows:

- 1. The rate of growth is very rapid during the first six months, the fish reaching a length of approximately ten inches by that time.
- 2. A study of the food of the growing maskinonge showed that the areas furnished abundant food for the very young and more advanced stages.
- 3. The young maskinonge remain in the area until the first of November which indicates the advisability of planting hatchery raised fish in such areas.
- 4. Large numbers of undesirable predators occur in such areas.
- 5. Eighty-one advanced fingerlings were recovered, that is, a yield of 0.8 advanced fingerlings for each 1,000 fry planted. It is believed that a considerable number of fingerlings were not recovered. Many predator fish, namely, perch and rock bass remained in the area throughout much of the experiment and these would undoubtedly cut down the yield.
- 6. It is safe to say that while the results obtained the first year of the experiment were promising, much better results might be expected.
- 7. There is evidence to show that there is a migration of fish from such areas in the fall and that sometime during the first year the maskinonge move out, and that these movements might be used to advantage for harvesting purposes.

### CLOSED WATERS

One of the most promising methods of conserving the breeding stock of black bass and maskinonge is to set aside portions of natural water areas. In these areas the fish thrive without interference and spread to other parts of the same stream or lake. In this way a permanent breeding stock is set up and we take each year only the natural increase from it.

Closures of all such areas (with one exception) in the Kawartha watershed were extended for a further period, and the same principle is being extended to important sections of the Rideau watershed.

In addition to the waters already closed for the natural protection and propagation of fish, the following were closed during the year, April 1, 1939, to March 31, 1940:

### BLACK RIVER,

Townships of Charlottenburg, County of Glengarry, Annual Closure, May 15 to June 20, inclusive.

#### CRAFT'S CREEK.

Townships of Mountjoy, Jessop and Murphy, District of Cochrane.

### DEEP BAY,

Township of Matchedash, County of Simcoe.

#### EMERALD LAKE,

Township of Parkman, District of Nipissing.

#### FINNIE'S CREEK.

Townships of Charlottenburg and Lancaster, County of Glengarry, Annual closure, May 15 to June 20, inclusive.

## LITTLE JOCKO RIVER,

West from Timiskaming Road, known as Morrow's Dam, east to the outlet in the big Jocko River, District of Timiskaming.

#### NASH'S CREEK or HOASIE'S CREEK

Township of Williamsburg, County of Dundas, during the closed season for black bass.

OPINICON LAKE (Portion locally known as Drowned Land), Township of Crosby South, County of Leeds.

OSBORNE, RAINBOW and HILL LAKES,

Township of Bridgland, District of Algoma.

PUMPHOUSE CREEK,

Townships of Cartier and Hart, District of Sudbury.

SUTHERLAND'S CREEK,

Township of Lancaster, County of Glengarry, Annual closure, May 15 to June 20, inclusive.

WOODCOCK LAKE,

West of Restoule Lake in the Township of Patterson, District of Parry Sound.

## BIOLOGICAL SURVEYS

Biological surveys were conducted in **Timiskaming district** on Bear, Beaverhouse, Butler, Crystal, Dorothy, Joyce, Lawgraves, Mousseau and Sinkhole lakes, tributaries and headwaters of Boston creek, tributary of Crooked creek; in **Cochrane district** on Bobs, Elexo, Fahy, Graves, Horseshoe, Jean, Mary and Tom lakes, Jacob's creek; and in **Peel county** on Caledon lakes, Caledon township.

The lagoons of Toronto Islands were studied to determine their suitability for large-mouthed black bass.

Catfish creek in the vicinity of Aylmer was studied from the standpoint of the effects of effluents from gas wells on fish life.

A study was made of the effect of a dam at the outlet of Buck Lake, Bedford township, Frontenac county, on the fish and aquatic life in the lake.

The Ontario Fisheries Research Laboratory of the Department of Biology, University of Toronto, continued field and laboratory studies of lakes and streams in Algonquin Park during 1939-40. An account of this important work was embodied in the report of the previous year.

### ACKNOWLEDGMENTS

It is but fitting that acknowledgment be made of the splendid co-operation and assistance received from the many Fish and Game Protective Associations throughout the Province as well as from the Northern Ontario Tourist Trade Association, and the members of both groups. The result of this organized effort among those directly interested in our fish and game resources is reflected in the general attitude of sportsmen towards the protection of this division of our Provincial natural resources. Never before has the public generally been more conservation minded, and the part played by these Associations in bringing about this happy state of affairs is greatly appreciated.

Members of the inside staff as well as the field service of the Department have as a general rule performed their duties conscientiously, and in their dealings with the public have been courteous and helpful, having in mind the various interests and activities of the Department.

All of which is respectfully submitted.

I am, Sir,

Your obedient servant,

Toronto, March 31st, 1941. D. J. TAYLOR,

Deputy Minister of Game and Fisheries

## APPENDIX No. 1

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS
APRIL 1st, 1939, to MARCH 31st, 1940.

LABOR MOUTHED DIACK	DACC	T A 1.11	
LARGE-MOUTHED BLACK	DASS	Lennox-Addington:	
FINGERLINGS Halton:		Beaver Lake (South)	5,000
	1.000	Cedar Lake	5,000
Twelve Mile Creek	1,200	Donohue Lake Duck Lake	5,000 5,000
Peterborough:		Lime Lake	5,000
	400	Loon Lake	5,000
Upper Stony Lake	690	Salmon River	5.000
ADULTS		Shircliff Lake	5,000
Peterborough:		Weslemkoon Lake	5,000
<del>-</del>	407	White Lake	5,000
Stony Lake	497		
		Muskoka:	
SMALL-MOUTHED BLACK	BASS	MacKay Lake	5,000
FRY	51100	Prospect Lake	5,000
		N 6 - 11	
Bruce:	10.000	Norfolk:	
Chesley Lake	10,000	Little Lake	10,000
Saugeen River	10,000	N 41 1 1 1 -	
Carleton:		Northumberland:	
	15 000	Silver Lake	20,000
Ottawa River	15,000	Trent River	60,000
Frontenac:		Ontario:	
	F 000		00.000
Crow Lake	5,000	Lake St. John	20,000
Loughborough Lake Sydenham Lake	$5,000 \\ 5,000$		
Sydennam Lake	5,000	Parry Sound:	
Hastings:		Bass Lake	5,000
	10.000	Blackstone Lake	5,000
Baptiste LakeBass Lake	$10,000 \\ 10,000$	Clear Lake	5,000
Big Salmon Lake	5,000	Crane Lake	5,000
Burnt Lake	5,000	Hamers Lake	5,000
Crow River	5,000	Horseshoe Lake	5,000
Gull Lake	5,000	Isabella Lake	5,000 $5,000$
Gunter Lake	5,000	Lake Joseph Lake Rosseau	5,000
Jordon Lake	5,000	Lynch Lake	5,000
Moira Lake	10,000	Massie Lake	5,000
Moira River	10,000	Portage Lake	5,000
Oak Lake	10,000	Rainey Lake	5,000
Otter Lake	10,000	Rankins Lake	5,000
Parks Creek	5,000	Ruth Lake	5,000
Pine Lake	5,000	Silver Lake	5,000
Spring Lake Stoco Lake	$\frac{5,000}{5,000}$	Sucker Lake	5,000
Tongamong Lake	5,000	Trout Lake	.5,000
Trent River	10,000	Turtle Lake	5,000
Trout Lake	5,000	Wolf Lake	5,000
Wadsworth Lake	5,000	D. ( and a second )	
Woods Lake	5,000	Peterborough:	
	,	Barney's Lake	5,000
Huron:		Big Beaver Lake	5,000
Lake Lakelet	10,000	Big Cedar Lake Buckhorn Lake	5,000
	•	~	$\frac{15,000}{5,000}$
Lambton:		Catchacoma Lake Chemong Lake	10,000
Sydenham River	20,000	Clear Lake	10,000
		Connelly Lake	5,000
Lanark:		Cox Lake	5,000
Long Lake	5,000	Crab Lake	5,000
Mississippi Lake	10,000	Crystal Lake	10,000
Mississippi River	5,000	Deer Bay	10,000
Pike Lake	5,000	Deer Lake	5,000

SMALL-MOUTHED BLACK	BASS	Mud Turtle Lake	30,000
Continued		Pigeon Creek	$20,000 \\ 20,000$
Detection of Continued		Silver Lake	10,000
Peterborough—Continued	15,000	Smudge Lake	20,000
Eel's Lake	5,000	Sturgeon Lake	30,000
Jack's Lake	15,000	Waterloo:	
Kashnabog Lake	10,000	Grand River	10,000
Katchawanooka Lake	5,000	Paradise Lake	10,000
Little Lake	10,000	River Nith	10,000
Little Cedar Lake Little Mud Lake	5,000 5,000	Wellington:	
Little Trout Lake	10,000	Allan's Dam	10.000
Long Lake	5,000	Puslinch Lake	10,000 10.000
Loon Lake	10,000	River Speed	10,000
Lovesick Lake	$\frac{10,000}{5,000}$		,
Mississauga River	5,000	York:	90.000
Oak Lake	10,000	Lake Simcoe	20,000
Otonabee River	5,000	FINGERLINGS	
Pencil Lake	5,000	FINGERLINGS	
Pigeon Lake Salmon Lake	$\frac{10,000}{20,000}$	Algoma:	
Sandy Lake	5.000	Alma Lake	500
Stony Lake	5,000	Appleby Lake	<b>5</b> 00
Trent River	5,000	Bass Lake (Aberdeen)	750
Trout Lake	5,000	Bass Lake (Striker) Birch Lake	500 500
Twin Lakes	$5,000 \\ 10,000$	Boundary Lake	500
	10,000	Caribou Lake	500
Prince Edward:		Carpenter Lake	500
Black Lake	10,000	Cloudy Lake	500
Roblins Lake	$5,000 \\ 10,000$	Cummings Lake Darrell Lake	500 500
	10,000	Desbarats Lake	750
Renfrew:	10.000	Diamond Lake	500
Barry's Bay	10,000	Duborne Lake	500
Calabogie Lake	$\frac{10,000}{5,000}$	Duck Lake	500
Hurd's Lake	10,000	Elbow Lake Friendly Lake	500 750
Jack's Chutes	15,000	Gordon Lake	1.000
Madawaska River	40.000	Iron Lake	750
(Hydes' Bay)	10,000	Lauzon Lake	500
Mink Lake	10,000	Little Clear Lake Lonely Lake	500 750
Simcoe:		Lost Lake	500
Black Lake	10,000	Marie Lake	500
Deep Bay Sanctuary Gloucester Pool	$20,000 \\ 20,000$	McCarroll Lake	500
Kempenfeldt Bay	20,000	Miller Lake	500
Little Lake	20,000	Mine Lake Mountain Lake	500 500
Six Mile Lake	20,000	Prospect Lake	500
Sudbury:		Rock Lake	500
Ella Lake	6,000	Stuart Lake	500
Fairbanks Lake	5,000	Unnamed Lake (U. Tp.)	500
Johnny Lake	5,000	Brant:	
Lake Agnew Lake Penage	$7,500 \\ 10,000$	Grand River	65
Whitewater Lake	7,500	Mohawk Lake	2,000
Victoria:		Bruce:	
Balsam Lake	20,000	Berry's Lake	1,000
Burnt River	20,000	Boat Lake	1,000
Cameron Lake	40,000	Isaac Lake Pine River	$1,000 \\ 1,000$
Head Lake Lake Dalrymple	$\frac{10,000}{30,000}$	Saugeen River	1,000
	20,000		,

SMALL-MOUTHED BLACK	BASS	Hastings:	
—Continued	DASS	Bow Lake	500
—Continued		Gunter Lake	500
Cochrane:		Little Salmon Lake	500
Departure Lake	500	Dittie Sumon Bane	000
Departure Lake	300	Huron:	
Durham:		Maitland River	1,000
Pigeon River	1,000		2,000
Tigeon itiver	1,000	Lanark:	
Elgin:		Bennet Lake	1,000
Pinafore Lake	500	Black Lake	750
Union Pond	500	Christie Lake	1,000
		Clear Lake	500
Frontenac:		Dalhousie Lake	750
Bass Lake (Olden)	500	Kerr's Lake	750
Bass Lake (Bedford)	1,000	Patterson's Lake	750
Big Clear Lake	1,000	Rideau Lake	1,000
Big Gull Lake	1,000	Robertson Lake	500
Big Lake	750	Silver Lake	$\begin{array}{c} 750 \\ 1,000 \end{array}$
Black Lake	750	Spectacle Lake	500
Blue Lake	500	Speciacic Bake	300
Bobs Lake	$1,000 \\ 1.000$	Leeds:	
Brule Lake	3,000	Benson Lake	1,000
Collins Lake	1,000	Big Rideau	750
Cranberry Lake	1,000	Charleston Lake	1.000
Cross Lake	1,000	Crow Lake	750
Crotch Lake	1,000	Gananoque Lake	750
Crow Lake	1,000	Grippen Lake	750
Draper Lake	1,000	Little Cranberry Lake	1,000
Eagle Lake	1,750	Little Rideau	500
Fortune Lake	1,000	Loon Lake	750
Green Bay	500	Lower Beverley Lake	750
Gull Lake	1,250	Lower Rideau Newboro Lake	$1,000 \\ 1,000$
Kashwakamak Lake	$\frac{1,000}{1,000}$	Opinicon Lake	1,000
Long Lake (Olden)	1,000	St. Lawrence River	2,500
Long Lake (Portland)	500	Sand Lake	1,500
Loughborough Lake	1,000	Singleton Lake	500
Mink Lake	500	South Lake	750
Mississagagon Lake	2,000	Traynor Lake	750
Pine Lake	750	Whitefish Lake	1,000
Rock Lake	500		
St. George Lake	500	Lennox-Addington:	
Salmon River	$\frac{1,000}{1,000}$	Mazinaw Lake	1,000
Sand Lake	1,000		
Spectacle Lake	500	26 1/2 21	
Sunday Lake	1,000	Manitoulin:	
Sydenham Lake	1,000	Manitou Lake	1,000
Wolfe Lake	1,000	McGregor Bay	2,000
		3//431	
Grey:		Middlesex	40000
Mountain Lake	1,000	Thames River	10,000
TT-13/ 3.		Marylander	
Haldimand:		Muskoka:	==0
Grand River	3,000	Bass Lake	750 750
Haliburton:		Clearwater Lake Crooked Lake	$\begin{array}{c} 750 \\ 2,000 \end{array}$
Black Lake	750	Dickie Lake	$\frac{2,000}{1,000}$
Devils Lake	500	Kahshe Lake	500
Gull Lake	500	Leonard Lake	500
	000	Long Lake	500
Halton:		Longford Lake	2,000
Twelve Mile Creek	2,000	Menominee Lake	1,000

SMALL-MOUTHED BLACK B. —Continued	ASS	Deer Lake (Ferry) Deer Lake (Lount)	$\frac{500}{1,000}$
Muskoka—Continued		Deer Lake (Wilson)	500
Muskoka Lake	500	Dobbs Lake Doe Lake	$\begin{array}{c} 750 \\ 500 \end{array}$
Riley Lake	500	Duck Lake	500
Round Lake	1,000	Eagle Lake	2,000
Severn River	2,000	Etta Lake	500
Six Mile Lake	2,000	Horseshoe Lake	500
Tookes Lake	1,000	Island Lake	750
Trading Lake	200	Kawigamog Lake	500
Nipissing:		Kidd Lake Little Clam Lake	500
Bear Lake	1.500	Little Long Lake	$\begin{array}{c} 500 \\ 500 \end{array}$
Blackwater Lake	500	Long Lake	750
Bruce Lake	1,000	Manitowaba Lake	500
Cache Lake	500	Many Island Lake	500
Champlain Lake	500	Mary Jane Lake	500
Chibogamog Lake	500	McQuaby Lake	500
French River	1,500	McVeety Lake	500
Little Martin Lake	1,000	Memesagamesi Lake	1,000
Long Lake  Martin Lake	1,000	Miners Lake	$\begin{array}{c} 750 \\ 500 \end{array}$
McPhee Lake	$1,000 \\ 1,000$	Morgan's Bay	1,000
Moore Lake	500	Mud Lake	500
Muskosung Lake	500	Nipissing Lake	500
Nipissing Lake	2,500	Pickerel Lake	500
Nosbonsing Lake	500	Pickerel River	500
Opechee Lake	1,000	Pipe Lake	500
Poplar Lake	1,000	Portage Lake	500
Rainey Lake	500	Rainey Lake	750
Rock Island Lake	1,000	Restoule Lake	$\begin{array}{c} 750 \\ 500 \end{array}$
Sawyer Lake	$\begin{smallmatrix} 500 \\ 1,000 \end{smallmatrix}$	Round Lake Seagull Lake	500
Talon Lake	1,000	Sequin River	500
Tilden Lake	1,000	Shebeshekong Lake	500
Timagami Lake	1,000	Shells Lake	500
Tomiko Lake	1,000	Shoal Lake	750
Turtle Lake	500	Spring Lake	500
Wickstead Lake	1,000	Stanley Lake	750
Norfolk:		Stormy Lake	750 750
Oakland Pond	210	Tea Lake Toad Lake	$\begin{array}{c} 750 \\ 500 \end{array}$
Sutton's Pond	3,000	Wilson Lake	500
Sutton's Tona	5,000	Wolf River	500
Ontario:		Woodcock Lake	500
Mud Lake	1,000		
Severn River	1,000	Peterborough:	
Donne Cound.		Belmont Lake	850
Parry Sound:		Buckhorn Lake	1,000
Anthon Lake	500	Round Lake	1,000
Arthur Lake Bass Lake	500	Stony Lake	2,000
Beaver Lake (Bethune)	$\begin{array}{c} 750 \\ 500 \end{array}$	D 6	
Beaver Lake (Croft)	500	Renfrew:	
Beaver Lake (Foley)	500	Green Lake	750
Blackwater Lake	500	Lake Dore	1,000
Brimson Lake	500	Olmstead Lake	1,000
Burnt Lake	500	Simcoe:	
Caribou Lake	500	Gloucester Pool	1,000
Cecebe Lake Charter Lake	500	Nottawasaga River	1,000
Clear Lake	$\begin{array}{c} 750 \\ 750 \end{array}$	Park Lake (Tay Township)	1,000
Coles Lake	500	(	,
Commanda Lake	750	Stormont:	
Crooked Lake	750	St. Lawrence River	1,000

SMALL-MOUTHED BLACK BA	SS	Kenora:	
—Continued		Birch Lake	100
		Corner Lake	38
Sudbury:		Dryberry Lake	78
Beaver Lake	500	Eva Lake	80 60
Bowes Lake	500	Laurenson's Lake Long Lake	37
Charlton Lake	500	Longbow Lake	98
Cranberry Lake Cutler Lake	500 500	Mack Lake	113
Emerald Lake	1,000	Sabaskong Bay	399
French River	1,000	Landlocked Lake—Winnipeg	
Frood Lake	500	River	85
LaCloche Lake	500		
Maple Lake	500	Manitoulin:	
Nepahawin Lake	500		468
Nipissing Lake	500	Lake Manitou	408
Ramsay Lake	$\frac{500}{750}$		
Third Lake Trout Lake	500	Muskoka:	
Wanapitei River	500	Buck Lake	100
Whitson Lake	500	Clearwater Lake	100
		Deer Lake	100
Timiakaminas		Lake Muskoka	100
Timiskaming:	F00	Lake Rosseau	100
Baarts Lake	$\begin{array}{c} 500 \\ 500 \end{array}$	Skeleton Lake	$\frac{220}{100}$
Bass Lake Beaverhouse Lake	500	Wood Lake	100
Butler Lake	500		
Davis Lake	500	Norfolk:	
Emerald Lake	500	Gravel Pit Pond	50
Herridge Lake	500	Little Lake	56
Sesekinika Lake	500	Oakland Pond	23
Victoria Lake	500	Sutton's Pond	100
		Waterford Gravel Pit Pond	100
Waterloo:		Waterford Pond	100
Dean's Lake	1,000		
		Parry Sound:	
York:		Beaver Lake	100
Lake Simcoe	750	Gooseneck Lake	100
Bake bimede	100	Jack's Lake	100
		Limestone Lake	100
YEARLINGS AND ADULTS		Loon Lake	100 100
		Magnetawan River Manson Lake	100
Bruce:		Shawanaga Lake	100
Wiarton Bay	<b>15</b> 0	Trout Lake	100
wanton bay	100	Wawashkesh Lake	100
Haliburton:		Whitestone Lake	100
	105		
Big Bob Lake	$\begin{array}{c} 125 \\ 125 \end{array}$	Peterborough:	
Bradys Lake	$\begin{array}{c} 125 \\ 125 \end{array}$	Belmont Lake	53
Canning Lake	$\frac{125}{125}$	Deer Lake	$\frac{53}{52}$
Cranberry Lake	125	Round Lake	51
Davis Lake	125	Stony Lake	17
Deer Lake	90		
Elephant Lake	130	Rainy River:	
Grass Lake	$\frac{125}{125}$	•	125
Grass River	$\begin{array}{c} 125 \\ 130 \end{array}$	Clearwater Lake Little Pete Lake	360
Horseshoe Lake	$\begin{array}{c} 130 \\ 125 \end{array}$	One-Sided Lake	206
Hurricane Lake	130	SHO DIGGG MARKO HILLIAM	
Kashagawigamog Lake	225		
Koshlong Lake	125	Thunder Bay:	
Rainbow Lake	<b>13</b> 0	Kashabowie Lake	135

MASKINONGE		Prince Edward:	
$\mathbf{EGGS}$		Muscote Bay	25,000
D. A. January J.		Smith's Bay	$25,000 \\ 15,000$
Peterborough:	190.000	West Bake	13,000
Experimental purposes	120,000	Renfrew:	
		Bass Lake	10,000
$\mathbf{FRY}$		Black Lake	15,000
Conleten		Cory Lake Cushene Lake	$15,000 \\ 15,000$
Carleton:	95 000	Otterson Lake	10,000
Rideau River	25,000	Petawawa River	10,000
Grenville:		Redbridge Lake	20,000
Rideau River	25,000	Simcoe:	
		Severn River	50,000
Hastings:		bevern hiver	30,000
Bay of Quinte	10,000	Thunder Bay:	
Crow River Ketcheson Creek	$15,000 \\ 5,000$	Lac des Mille Lacs	5,000
Moira Lake	25,000		,
Moira River	25,000	Victoria:	
Sears Lake	15,000	Balsam Lake	50,000
Stoco Lake	25,000	Burnt River	25,000
Tongamong River	$25,000 \\ 25,000$	Cameron Lake	$75,000 \\ 25,000$
Trent River	20,000	Lake Dalrymple	25,000
Frankford	5,000	Mud Turtle Lake	25,000
Whetstone River	25,000	Pigeon Creek	50,000
		Pigeon Lake Pigeon River	50,000
Leeds:		Scugog Lake	$200,000 \\ 50,000$
St. Lawrence River	25,000	Silver Lake	15,000
Muskoka:		Sturgeon Lake	150,000
Kahshe Lake	25,000	Waterland	
Sparrow Lake	25,000	Waterloo:	15.000
	•	Nith River	15,000
Nipissing:	95 000	Wentworth:	
Lake Nipissing	25,000	Hamilton Bay	5,000
Northumberland:		•	-,
Rice Lake	100,000	DIVGDDI MGG	
Trent River	130,000	FINGERLINGS	
Ontario:		Peterborough:	
Lake St. John	20,000	Belmont Lake	30
	·	Clear Lake	70
Peterborough:	F0 000	Katchawanooka Lake	500
Belmont Lake	$50,000 \\ 50,000$	Pigeon LakeStony Lake	$\begin{array}{c} 500 \\ 200 \end{array}$
Clear Lake	200,000	biony Bake	200
Deer Bay	100,000		
Indian River	50,000	PERCH	
Kashabog Lake	25,000	FRY	
Katchawanooka Lake Lake Chemong	$65,000 \\ 100,000$	FRI	
Little Lake	10,000	Lake Erie	70,360,000
Little Mud Lake	25,000	Lake St. Clair	
Lovesick Lake	50,000		
Otonabee River	$50,000 \\ 100,000$	PICKEREL	
Round Lake	50,000	EYED EGGS	
Stony Lake	100,000	ELED EGGS	
Trent River & Rice Lake	50,000	Exchange	5,000,000
White Lake	25,000	Sparrow Lake	2,000,000

PICKEREL—Continued		Long Lake (Portland)	250,000
FRY		Malcolm Lake	$300,000 \\ 500,000$
		Mississagagon Lake	500,000
Algoma:	=00.000	Mississippi River	1,000,000
Allan Lake	700,000	Red Pine Lake	250,000
Anjigami Lake	$200,000 \\ 400,000$	Round Lake	250,000
Bear Lake	250,000	Sand Lake	250,000
Caribou Lake	200,000	Second Depot Lake	100,000
Cummings Lake	250,000	Sydenham Lake	400,000
Dean Lake	100,000	Upper Rideau	1,000,000
Desbarats Lake	150,000	West Rideau	250,000
Echo Lake	100,000	Grenville:	
Gordon Lake	400,000	Nation River	500,000
Goulais River	300,000	Rideau River	500,000
Granary Lake	500,000	indead inver	300,000
Hill Lake	$150,000 \\ 250,000$	Grey:	
Lake of the Mountains	300,000	Mountain Lake	250,000
Little Basswood Lake	500,000	mountain Dance	200,000
Little Clear Lake	500,000	Haldimand:	
Pipe Lake	250,000	Grand River	1,000,000
Rock Lake	450,000	G. G	2,000,000
Round Lake	100,000	Haliburton:	
Spanish River	500,000	Cauntaus Lake	1,000,000
Sugar Lake	250,000	Elephant Lake	1,000,000
Dance		Paudash Lake	1,500,000
Bruce:	<b>5</b> 00 000	Wolf Lake	1,000,000
Agar Lake	500,000		
Boat Lake	250,000	Hastings:	
Chesley Lake	500,000 500,000	Baptiste Lake	800,000
Sky Lake	250,000	Bartlett's Lake	150,000
ong Bano	200,000	Crow Lake	1,500,000
Carleton:		Fraser Lake	$200,000 \\ 100,000$
Ottawa River	500,000	Lime Lake	200,000
		Moira Lake	800,000
Cochrane:		Moira River	1,000,000
Carman Bay	60,000	Salmon Trout Lake	200,000
Frederick House Lake	80,000	Sears Lake	100,000
Frederick House River	250,000	Stoco Lake	300,000
Night Hawk River	$80,000 \\ 60,000$	Trent River	1,000,000
Reid Lake	70,000		
Remi Lake	200,000	Kenora:	
Silver Queen Lake	80,000	Black Sturgeon Lake	6,000,000
·		Blindfold Lake	3,000,000
Frontenac:		Bowden Lake	750,000 $500,000$
Antoine Lake	250,000	Eagle Lake	2,000,000
Bass Lake	200,000	Gun Lake	1,000,000
Big Clear Lake	300,000	Lake Lulu	1,500,000
Big Gull Lake	$850,000 \\ 200,000$	Lake of Two Mountains	1,500,000
Bobs Lake	750,000	Lake of the Woods	
Crosby Lake	500,000	Long Bow Lake	1,500,000
Cross Lake	300,000	Separation Lake	750,000 $6.000.000$
Crotch Lake (Kennebec)	200,000	Shoal Lake	2,000,000
Crotch Lake (Palmerston)	800,000	Winnipeg River	4,500,000
Crow Lake	250,000	manpos Milot	2,000,000
Green Lake	300,000	Lanark:	
Green Bay Lake	$250,000 \\ 850,000$	Barbers Lake	200,000
Gull Lake	200,000	Beaver Lake	300,000
Kashwakamak Lake	1.250,000	Bennet's Lake	425,000
Long Lake (Olden)	200,000	Black Lake	250,000
	•		•

PICKEREL—Continued		Nipissing:	
		Bouleau River	200,000
Lanark—Continued		Bruce Lake	250,000
Caldwell Lake	200,000	Diamond Lake	140,000
Christie Lake	500,000	French River	2,000,000
Clear Lake	250,000	Gull Lake	140,000
Dalhousie Lake	325,000	Horseshoe Lake	70,000
Gillies Lake	$250,000 \\ 200,000$	Lake Champlain	50,000
Kerrs Lake	400,000	Lake Nipissing Lake Timagami	2,250,000 $2,000,000$
Little Joe's Lake	200,000	Marion Lake	70,000
Mississippi Lake	600,000	Martin Lake (Gladman)	500,000
Mississippi River	650,000	Martin Lake (Sisk.)	250,000
Otty Lake	600,000	Martin River	280,000
Patterson's Lake	300,000	McPhee Lake	300,000
Rivens Lake	200,000	Moose Lake	70,000
Robertson Lake	200,000	Nosbonsing Lake	80,000
Spectacle Lake	250,000	Opechee Lake	250,000
Leeds:		Pimisi Lake	200,000
	400.000	Sheeby LakeTalon Lake	$70,000 \\ 80,000$
Bass Lake	400,000	Tilden Lake	50,000
Crow Lake	$200,000 \\ 500,000$	Tomiko Lake	280,000
Higgley Lake Little Rideau	600,000	Twin Lakes	250,000
Loon Lake	200,000	Wasaksina Lake	140,000
St. Lawrence River	1,000,000	Wickstead Lake	500,000
Sand Lake	250,000		
Traynor Lake	200,000	Northumberland:	
Wolfe Lake	250,000	Mud Lake	400,000
		Rice Lake	1,500,000
Lennox-Addington:		Trent River	4,600,000
Beaver Lake	200,000		
Duck Lake	200,000	Ontario:	
Long Lake	$600,000 \\ 600,000$	Lake St. John	250,000
Mazinaw Lake Napanee River	4,000,000	Mud Lake	250,000
North Beaver Lake	350,000	Severn River	500,000
Salmon Lake	1,000,000	D G 1.	
Sixth Lake	600,000	Parry Sound:	
South Beaver Lake	350,000	Ahmic Lake	100,000
White Lake	350,000	Bass Lake	200,000
		Beaver Lake (Croft) Blackstone Lake	$50,000 \\ 600,000$
Manitoulin:		Brimson Lake	200,000
Burnt Lake	500,000	Callander Bay	1,500,000
Mindemoya Lake	1,500,000	Caribou Lake	30,000
South Bay	500,000	Cecebe Lake	80,000
Nr. 1. 1		Clear Lake	200,000
Muskoka:		Commanda Lake	250,000
Axel's Lake	100,000	Crane Lake	200,000
Bala Bay	1,000,000	Crooked Lake	$200,000 \\ 50,000$
Bear Trail Lake	$50,000 \\ 500,000$	Deer Lake Dobbs Lake	50,000
Crooked Lake	500,000	Doe Lake	100,000
Gull Lake	500,000	Duck Lake	20,000
Indian River	250,000	Isabella Lake	300,000
Kahshe Lake	250,000	Jacks Lake	80,000
Leonard Lake	450,000	Kawigamog Lake	80,000
Long Lake	30,000	Lake of Many Islands	50,000
Mootes Lake	50,000	Lennon Lake	200,000
Muskoka Lake	300,000	Little Long Lac	$\frac{30,000}{50,000}$
North Lake	$50,000 \\ 250,000$	Long Lake Loon Bay	500,000
Severn River	750,000	Magnetawan River	280,000
Three Mile Lake	500,000	Manitowaba Lake	500,000
Webster Lake	250,000	Manson Lake	250,000
	•		

PICKEREL—Continued	l	Pine Lake Rainy Lake	1,500,000 8,000,000
Parry Sound-Continued		Sabaskong Bay	
McKellar Lake	400,000	Steeprock Lake	
McKeown Lake	100,000	•	, ,
McVeety Lake	200,000	Renfrew:	
Memesagamesi Lake	100,000	Black's Bay	500,000
Minerva Lake	200,000	Calabogie Lake	500,000
Nipissing Lake	2,900,000	Coulas Lake	225,000
Oastler Lake	500,000	Cushene Lake	125,000
Otter Lake	750,000	Golden Lake	625,000
Owl Lake	300,000	Hazel Bay	250,000
Pickerel Lake	200,000	Hond's Lake	125,000
Pickerel River	130,000	Madawaska River	125,000.
Potage Lake	500,000	Meilleur's Bay	250,000
Rainy Lake	250,000	Muskrat Lake	500,000
Restoule Lake	700,000	Norway Lake	125,000
Rosseau Lake	1,500,000	Petawawa River	250,000
Ruth Lake	100,000	Sturgeon Lake	250,000
Shawanaga Lake	100,000	T. Lake	250,000
Shebeshekong Lake	70,000	White Lake	500,000
Shoal Lake	200,000	Ct	
Six Mile Lake	70,000	Simcoe:	
Squaw Lake	400,000	Black Lake	250,000
Stanley Lake	50,000	Gloucester Pool	1,250,000
Stewart Lake	200,000	Little Lake	250,000
Stormy Lake Tea Lake	$200,000 \\ 150,000$	Nottawasaga River	100,000
Third Lake	200,000	Severn River	675,000
Wawashkesh Lake	1,500,000	Six Mile Lake	500,000
Whitestone Lake	300,000		
Wilson Lake	60,000	Stormont:	
Wolfe River	30,000	St. Lawrence River	1,850,000
Peterborough:		Sudbury:	
Belmont Lake	1,500,000	Agnew Lake	750,000
Chemong Lake	1,000,000	Bisco Lake	500,000
Connolly's Lake	500,000	Charlton Lake	400,000
Deer Bay	500,000	Cranberry Lake	300,000
Deer Lake	2,000,000	Crooked Lake	$250,000 \\ 250,000$
Deer River	2,300,000	Cross Lake French River	2,300,000
Indian River	1,500,000	Frood Lake	250,000
Little Cedar Lake	$500,000 \\ 200,000$	Hanna Lake	250,000
Little Lake	1,000,000	La Cloche Lake	200,000
Long Lake Loon Lake	1,500,000	Long Lake	700,000
Lovesick Lake	500,000	Makido Lake	500,000
North River	1,000,000	Maple Lake	250,000
Oak Lake	1,500,000	Middle Lake	250,000
Otonabee River	3,000,000	Minisinakwa Lake	500,000
Pigeon Lake	1,000,000	Moose Lake	200,000
Round Lake	1,500,000	Murray Lake	300,000
Trent River	400,000	Nepiwasy Lake	150,000
Twin Lakes	<b>15</b> 0,000	Onaping Lake	1,000,000
		Pashy Lake	500,000
Prince Edward:		Penage Lake	1,750,000
Bay of Quinte	6,150,000	Peterson's Bay	750,000
Consecon Lake	900,000	Ramsay Lake	1,000,000
Smith's Bay	1,250,000	Silver Lake	$300,000 \\ 500,000$
West Lake	300,000	Slaterock Lake Spanish River	750,000
		Trout Lake (Cherriman)	250.000
Rainy River:		Trout Lake (Tilton)	250,000 $250,000$
Clearwater Lake			
	3.000.000		200,000
Lake of the Woods		Upper Sturgeon	200,000 1,000,000
Lake of the Woods One-sided Lake	24,000,000		

PICKEREL—Continued		Durham:	
Timiakamina		Baldwin's Creek	1,260
Timiskaming:	140.000	Bowmanville Pond	2,400
Gillies Lake	140,000	Laing's Stream	800
Giroux Lake	$\frac{30,000}{50,000}$	Stephen's Creek	2,400
Granite Lake	200,000	Elgin:	
Lady Evelyn Lake	70,000		
Long Lake	80,000	Big Creek	3,000
Montreal River	80,000	Big Otter	3,600
Mortimer Lake	70,000	Grey:	
Net Lake	50,000	-	14 400
Obuskong Lake	140,000	Big Head River Lueck's Mill Pond	14,400
Reid Lake	70,000	Potawatami River	$\frac{8,400}{3,600}$
Rib Lake	170,000	Saugeen River	11,700
Round Chute	30,000	Styx River	8,100
Round Lake		Sydenham River	8,100
Petersen Lake Sesekinika Lake	$80,000 \\ 250,000$	Weatherspoon Creek	1,000
Sharpe Lake	70,000		,
Timiskaming Lake	640,000	Haldimand:	
Twin Lakes	60,000	Rogers Creek	1,000
Victoria Lake	80,000		,
Wendigo Lake	100,000	Halton:	
Wilson Lake	70,000	Sixteen Mile Creek	10,800
	,	Twelve Mile Creek	10,800
Victoria:			
Burnt River	150,000	Hastings:	
Dalrymple Lake	250,000	Beaver Creek	3,200
Head Lake	250,000	· Black Creek	3,200
Little Turtle Lake	500,000	Little Mississippi River	3,200
Mud Turtle Lake	250,000	Rawdon Creek	3,400
O 4 7 11-		Squire's Creek	3,200
Great Lakes:		TT	
North Channel	7,300,000	Huron:	0.000
Georgian Bay	425,000	Maitland River	9,000
Lake Huron	1,500,000	Nine Mile River	3,600
Lake Superior	1,500,000	Lambton:	
			2,000
BROWN TROUT		Bear Creek	2,000
FINGERLINGS		Lincoln:	
FINGERLINGS		Effingham Stream	1.000
Grey:		Twelve Mile Creek	225
Feeders Saugeen River	19,954	I welve mile of eek	
Feeders Styx River	10,000	Middlesex:	
		Medway Creek	7,210
		medway of eek	*,210
YEARLINGS		Norfolk:	
Brant:		Big Creek	9.900
Branch Creek	5,700	Little Otter Creek	10,800
Whiteman's Creek	9,600	Nanticoke Creek	8,150
	•,•••		
Bruce:		Northumberland:	
Austin Fladd Mill Dam	1,800	Bowen's Pond	1,900
Crane River	3,900	Cole's Pond	1,500
Lockerby Creek	7,600	Dudley's Pond	1,900
Plum Creek	5,400	0-1	
Saugeen River	10,800	Ontario:	
Snake Creek	5,700	Chubtown Creek	3,000
Sucker Creek	1,900	Oxford:	
Teeswater River Vogt's Creek	$\frac{3,600}{2,700}$		1 000
Willow Creek	1,800	Burns Creek Horner's Creek	$\frac{1,800}{3,000}$
The order	1,000	Horner's Creek	5,000

BROWN TROUT—Continu	ed	Camp Lake	15,000
Peel:		Crotch Lake	35,000
Credit River	3,100	Crow Lake Desert Lake	$20,000 \\ 10,000$
Cicuit itivoi	0,100	Devil Lake	20,000
Perth:		Dog Lake	20,000
Avon River	5,000	Draper Lake	15,000
Halfway House Creek	700	Eagle Lake Fortune Lake	$60,000 \\ 30,000$
Peterborough:		Grindstone Lake	30,000
Baxter Creek	6,000	Kashwakamak Lake	40,000
Cavan Creek	3,000	Little Rock Lake Little Salmon Lake	$15,000 \\ 15,000$
Deer Bay Creek	9,000	Loughborough Lake	40,000
Eel's Creek	9,600	Lucky Lake	15,000
Jack's Creek	$\frac{9,600}{6,000}$	Mackie Lake	15,000
Mississauga River	6,400	Mississagon Lake	25,000
Mount Pleasant Creek	2,000	Palmerston Lake Reid's Lake	$25,000 \\ 15,000$
North River	6,400	Rock Lake	15,000 $15,000$
Otter Creek	1,400	Round Schooner Lake	15,000
Simcoe:		Sharbot Lake	30,000
Boyne River	2,100	West Rideau Lake	30,000
Nottawasaga River	21,600	Hastings:	
Willow Creek	13,350	Baptiste Lake	90,000
Waterland		Bass Lake	10,000
Waterloo:	4.000	Big Salmon Lake	30,000
Bridgeport Dam Dentinger Creek	$\frac{1,800}{3,000}$	Burnt Lake	10,000
Fisher Mill Dam	1,800	Class Lake	$30,000 \\ 10,000$
	-,	Clear Lake Crooked Lake	20,000
Welland:		Devil Lake	10,000
Lyon's Creek	6,000	Dickie Lake	20,000
Wellington:		Eagle Lake	25,000
Guelph Waterworks Stream	75	Gunter Lake	$10,000 \\ 10,000$
Speed River	10.800	Lake St. Peter	30,000
	_0,000	La Valley Lake	10,000
Wentworth:		Limestone Lake	5,000
Spencer Creek	2,100	Little Salmon Lake Little Salmon River	$\frac{10,000}{5,000}$
York:		Long Lake	5,000
	900	O'Grady Lake	10,000
Hoover's Pond	$\begin{smallmatrix}200\\10,900\end{smallmatrix}$	Papineau Lake	20,000
111101 111101	10,500	Peets Lake	$10,000 \\ 15,000$
Miscellaneous:		Trout Lake (Faraday)	10,000
Private waters		Trout Lake (Lake)	25,000
(Experimental)	100	Wadsworth Lake	10,000
		Weslemkoon Lake	30,000
TAME MYSOTH		Lanark:	
LAKE TROUT		Big Rideau Lake	100,000
EYED EGGS		Silver Lake	10,000
Exchange	1,845,850		
TIPLY		Leeds:	<b>F</b> 0.000
FRY Frontenac:		Charleston Lake	$50,000 \\ 30,000$
Big Gull Lake	60,000	Indian Lake Otter Lake	10,000
Blue Lake	10,000	Red Horse Lake	10,000
Brule Lake	20,000		
Buck Lake (Barrie)	25,000	Lennox-Addington:	# F 000
Buck Lake (Bedford) Buckshot Lake	$\frac{10,000}{30,000}$	Elbow Lake Finch Lake	$15,000 \\ 20,000$
	50,000	rinch Lake	201000

LAKE TROUT—Continu	ed	Lake of the Mountains	4,000
FRY		Long Lake	15,000
		Madawonsing Lake Matinenda Lake	$\frac{5,000}{5,000}$
Lennox-Addington—Continued	10.000	Mountain Lake	6,000
Little Cedar Lake Little Weslemkoon Lake	$10,000 \\ 10,000$	Patton Lake	10,000
Loon Lake	50,000	Penage LakePickerel Lake	$\frac{15,000}{5,000}$
Otter Lake	30,000	Rand Lake	10,000
Simpson Lake	$5,000 \\ 10,000$	Ranger Lake	10,000
Spoon Lake Thirty Island Lake	20,000	Raw Hide Lake	6,000
White Lake	20,000	Robertson Lake	$6,000 \\ 15,000$
Detech enough.		Rose Marie Lake	6,000
Peterborough: Big Cedar Lake	10,000	Sand Lake	10,000
Bottle Lake	10,000	Spruce Lake Trout Lake	$10,000 \\ 10,000$
Eagle Lake	30,000	Wakomata Lake	15,000
Eel's Lake	30,000	Windermere Lake	7,000
Jack's Lake Lake Catchacoma	$30,000 \\ 20,000$		
Little Cedar Lake	10,000	Bruce:	
Long Lake	10,000	Gillies Lake	25,000
Loon Lake	$90,000 \\ 20,000$		
Mississauga Lake Oak Lake	15,000	Cochrane:	2.000
Trout Lake	30,000	Remi Lake	6,000
Twin Lake	15,000	Haliburton:	
Rainy River:		Bear Lake	5,000
Ash Bay	24,900	Big Bear Lake	3,000
Bad Vermilion Lake	80,000	Big Bob Lake	5,000
Burnt Lake	$20,\!000 \\ 135,\!000$	Boskung Lake	$\frac{10,000}{4,000}$
Kakagi Lake Lake Kishkutena	45,000	Clearwater Lake	5,000
Narrow Lake	20,000	Davis Lake	9,000
Pipestone Lake	20,000	Drag Lake Eagle Lake	$\frac{15,000}{5.000}$
Steeprock Lake	60,000	East Lake	5,000
Great Lakes:		Fishtail Lake	4,000
North Channel	140,000	Gull Lake	$\frac{10,000}{5,000}$
Georgian Bay	1,750,000	Hollow Lake	5,000
Lake Huron Lake Ontario	$2,480,000 \\ 567,000$	Horseshoe Lake	3,000
Bane Girario IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	00.,000	Hurricane Lake Kashagawigamog	$5,000 \\ 10,000$
FINGERLINGS		Kennisis Lake	10,000
Algoma:		Kimball Lake	5,000
Achigan Lake	$10,000 \\ 15,000$	Kushog Lake	$\frac{10,000}{5,000}$
Bass Lake	10,000	Little Hawke Lake Maple Lake	5,000
Basswood Lake	15,000	Moose Lake	5,000
Caribou Lake	7,000	Mountain Lake	5,000
Chiblow Lake	$\substack{5,000\\20,000}$	Oblong Lake Oxtongue Lake	$\frac{5,000}{5,000}$
Cummings Lake	15,000	Paudash Lake	3,000
Denman Lake	7,000	Pine Lake	3,000
Fleck Lake	$\substack{7,000 \\ 10,000}$	Redstone Lake	$\frac{10,000}{5,000}$
Grev Trout Lake	6,000	Spruce Lake	5,000
Hawk Lake	10,000	Stormy Lake	3,000
Hobon Lake	$\substack{10,000\\5,000}$	St. Nora's Lake Trout Lake	$\frac{5,000}{8,000}$
Howard Lake Island Lake	5,000	Twelve Mile Lake	10,000
Jobammeghia Lake	15,000	White Trout Lake	5,000
Lake Lauzon	6,000	Wolfe Lake	3,000

LAKE TROUT—Continue	ed	Tomiko Lake	8,000
		Trout Lake	12,000
Kenora:		Wasaksina Lake	3,000
Blue Lake	12,500	Wickstead Lake	6,000
Cliff Lake	25,000	D 0 1	
Cobble Lake	50,000	Parry Sound:	
Cul-de-Sac Lake	105,000	Bay Lake	10,000
Dogtooth Lake	50,000	Black Lake	2,500
Eagle Lake	14,700	Caribou Lake	5,000
Gee Jay Lake	25,000	Clear Lake	10,000
Rosamond Lake	20,000	Eagle Lake	15,000
Sturgeon Lake	50,000	High Lake	7,500
Thunder Lake	20,000	Horn Lake	15,000
Trout Lake	25,000	Lake Joseph	5,000
Whitefish Bay	75,000	Lake Rosseau	15,000
35 14 11		Little Lake Joseph Little Whitefish Lake	10,000
Manitoulin:	90.000		5,000
Lake Manitou	20,000	Loon Bay Loon Lake	$\frac{20,000}{5,000}$
		Lorimer Lake	15,000
Muskoka:		Memesagamesi Lake	20,000
Bala Bay	15,000	Otter Lake	10,000
Bella Lake	10,000	Portage Lake	5,000
Big Twin Lake	2,500	Round Lake	5,000
Bruce's Lake	5,000	Ruth Lake	10,000
Clear Lake (McLean)	10,000	Salmon Lake	10,000
Clear Lake (Ridout)	10,000	Sand Lake	10,000
Fairy Lake	15,000	Sucker Lake	15,000
Haley's Lake	$10,000 \\ 50,000$	Tea Lake	5,000
Lake of Bays	10,000	Three Legged Lake	10,000
Lake Joseph Little Clear Lake	2,500	Three Mile Lake	5,000
Long Lake	10,000	Trout Lake (Hagerman)	5,000
Loon Lake	5,000	Trout Lake (McDougall)	10,000
Mary Lake	30,000	Whitefish Lake	10,000
Muskoka Lake	40,000		
Near Cut Lake	5,000	Peterborough:	
Paint Lake	7,500	Crystal Lake	8,000
Peninsula Lake	15,000	Lake Talon	3,000
Pine Lake	15,000		
Rebecca Lake	12,500	Renfrew:	
Rosseau Lake	10,000	Bark Lake	8,000
Six Mile Lake	5,000	Barry's Bay	8,000
Skeleton Lake	40,000	Birchim Lake	5,000
Solitaire Lake	5,000	Blackfish Bay	8,000
Tasso Lake	5,000	Centers Lake	6,000
Vernon Lake	20,000	Clear Lake	15,000
		Cross Lake	8,000
Nipissing:		Diamond Lake	4,000
Aylen Lake	3,000	Kaminiskeg Lake	7,000 $7,000$
Bear Lake	6,000	Long Lake (Radcliffe)	6,000
Cache Lake	3,000	Long Lake (Wylie) Pog Lake	8,000
Cameron Lake	8,000	Round Lake (Lyell)	7,000
Cedar Lake	10,000	Round Lake (Richards)	14,000
Diamond Lake	3,000	Tea Lake	6,000
Dotty Lake	5,000	Trout Lake	10,000
Fatty Lake	5,000 3,000	Upper Carson Lake	10,000
Gull Lake Little Martin Lake	6,000	Wadsworth Lake	7,000
	6,000		
Martin Lake	3,000	Simcoe:	
Smoke Lake	3,000	Kempenfeldt Bay	30,000
Source Lake	3,000	_	, -
South Tea Lake	3,000	Sudbury:	
Talon Lake	8,000	Agnew Lake	10,000
Timagami Lake	3,000	Clearwater Lake	10,000
	,		

LAKE TROUT—Continue	ed	Mississagi River	10,000
Sudhuny Continued		Montreal River North Lake	$\frac{10,000}{5,000}$
Sudbury—Continued	14000	West Lake	5,000
Emerald Lake	14,000	White River	10,000
Fairbanks Lake	8,000	white itivel	10,000
Kuba Lake Lang Lake	$8,000 \\ 7,000$	Sudbury:	
Little Penage Lake	8,000	Onaping River	15,000
Long Lake (Broder)	10,000	Onaping three	10,000
Long Lake (Harrow)	5,000	Timiskaming:	
Mesomikenda Lake	8,000	_	5,000
Millard Lake	12,000	Choppin Lake	3,000
Miller Lake	5,000	Miscellaneous:	
Ministic Lake	7,000	Sale	50
Nepahwin Lake	10,000	Sale	90
Onaping Lake	14,000		
Ramsay Lake	10,000	YEARLINGS and ADULTS	
Trout Lake	10,000	TEMEDINGS and MECETS	
Wanapitei Lake	15,000	Bruce:	
West Bay	7,000	Saugeen River	1 200
Windy Lake	14,000	Saugeen River	1,800
Thunder Bay:		Dufferin:	
-	40,000	Nottawasaga River	6,085
Windigoostigwan Lake	40,000	Pine River	1,500
Timiskaming:			
Anima Nipissing Lake	8,000	Elgin:	
Crystal Lake	6,000	St. Thomas Reservoir	850
Gowganda Lake	3,000		
Herridge Lake	5,000	Grey:	
Justine Lake	3,000	Sydenham River	500
Larder Lake	6,000	By defination 1011 of 1111.	000
Long Lake	5,000	Norfolk:	
Nellie Lake	6,000		0.50
Net Lake	3,000	Big Creek	350
Perry Lake	9,000		
Pike Lake	3,000	Simcoe:	
Pine Lake	3,000	Kempenfeldt Bay	1,500
Rib Lake	3,000	Lake Simcoe	1,500
Trout Lake	3,000	Sturgeon River	5,000
Twin Lake	3,000		
Watabeag Lake	10,000	Wellington:	
Wendigo Lake	3,000	Saugeen River	1,500
York:		Baugeen Hiver	2,000
Lake Simcoe	30,000	York:	
	•	Humber River	1,500
Great Lakes:			
Lake Superior	2,460,000	Miscellaneous:	
North Channel	74,000	Sales-Demonstration and	
Georgian Bay	1,769,000	propagation purposes	2,069
Lake Huron	3,293,200	propagation purposes	_,
		EAMI AADS TRAIT	
RAINBOW TROUT		KAMLOOPS TROUT	
FINGERINGS		FINGERLINGS	
Algoma:		Algoma:	
_	7,585	Blue Lake	19,000
Batchawana River	7,000	Devils Lake	18,000
Hamburg Creek	5,000	Lake Constance	20,000
Huston Lake	5,000	Trout Lake	20,000
Jobammeghia Lake	10,000		
Keegos Lake	5,000	Muskoka:	
Loon Lake	10,000	Echo Lake	10,000

KAMLOOPS TROUT—Conti	nued	YEARLINGS	
XV		Algoma:	
Nipissing:		Achigan Creek	2,500
Lake Timagami	8,000	Achigan Lake	3,200
Downy Counds		Agawa River	9,600
Parry Sound:		Alona Bay Creek	1,500
Lake Bernard	10,000	Alva Lake	1,600
Miscellaneous:		Anjigami Creek	1,600
		Arnett Lake	1,600
Demonstration purposes	41	Aubinadong Bay	2,400
		Aubinadong Lake	2,400
CDECKTED MDAUM		Austin Lake	1,500
SPECKLED TROUT		Basswood Lake	2,000
FINGERLINGS		Batchawana River	9,600
FINGERDINGS		Beaver Lake	1,600
Durham:		Big Lake	2,000
	4.000	Black Creek	1,000
Squirrel Creek	4,000	Boat Lake	$\frac{1,000}{2,400}$
Taylor's Creek	4,000	Boundary Lake	3,200
Frontenac:		Boyd's Creek Buckboard Lake	1,000
Black Creek	10,000	Burns Lake	2,500
Bolton Creek	15,000	Burrows Lake	3,200
McCausland Creek	10,000	Caldwell's Lake	800
Sharbot Lake Creek	15,000	Cameron Creek	1,000
Sharbot Dake Greek	10,000	Camp 8 Bay	2,400
Hastings:		Canoe Lake	500
Baptiste Lake	28,000	Carpenter Lake	3,200
Bartlett Creek	5,000	Cedar Creek	800
Bentley Creek	5,000	Chippewa River	27,200
Diamond Lake	8,000	Chub Lake	5,200
T. Lake	5,000	Clear Lake (Mack)	1,000
	·	Clear Lake (Vankoughnet)	3,200
Lennox-Addington:		Coffee Creek	2,500
Mill Stream	10,000	Copp Lake	5,200
Simpson Lake	10,000	Cram Lake	500
Spoon Lake	10,000	Crystal Creek	<b>1,5</b> 00
Spring Lake	5,000	Crystal Lake	2,000
White Lake	15,000	Cummings Lake	1,200
Viniaging:		Deer Lake	2,500
Nipissing:	45.000	Diamond Lake	2,000
Duschene Creek	15,000	Driving Creek	5,000
Four Mile Creek	25,000	Driving Lake	1,000
Rainey Lake	8,000	Echo Lake	1,500
Spring Lake	25,000	Eleven Mile Creek	$\frac{3,200}{1,000}$
Twenty Minute Lake Wolf Lake	$25,000 \\ 25,000$	Elizabeth Lake Fairbank Creek	10,000
Woll Lake	23,000	Fern Lake	1,600
Northumberland:		Fish Lake	1,600
Burnley Creek	10,000	Foot Lake	2,500
Chidley Creek	3,000	Garden Lake	4,800
Dartford Creek	3,000	Garden River	1,000
DeLong's Creek	3,000	Gilmore Lake	750
Duncan Creek	4,000	Goodwins Lake	1,500
Pegman's Creek	3,000	Goulais River	5,250
Quinn's Creek	3,000	Gravel Lake	3,500
Robin's Creek	3,000	Harmony Creek	5,100
Sandy Flat Creek	4,000	Harmony River	3,000
Valleau's Creek	10,000	Hawk Lake	1,600
Detail		Heart Lake	6,700
Peterborough:		Herman Lake	3,200
Carver's Creek	8,000	Heyden Lake	5,100
Miscellaneous:		Hidden Portage Lake	2,400
		High Lake	1,000
Sales—Demonstration and	1 000	Hills Creek	1,500
propagation purposes	1,000	Hoath Lake	1,600

SPECKLED TROUT—Continue	ed	Pinkney Lake	1,600
Algeme Continued		Rainbow Lake	$\frac{2,000}{1,600}$
Algoma—Continued	9 900	Ranger Lake	1,000
Hobon Lake	3,200	Red Deer Lake	800
Horn Lake Horse Lake	$\frac{1,600}{1,250}$	Red Rock Lake	1,000
Horseshoe Lake	1,500	Richardson Lake	2,400
Hubert Lake	2,400	Robertson Lake	4,700
Island Lake (Aberdeen)	2,500	Rock Lake	800
Island Lake (Aweres)	3,000	Root River	6,600
Island Lake (176)	5,700	Round Lake (1A.)	800
Jackfish River	3,000	Round Lake (Grassett)	3,200
Jimmy Lake	800	St. Joseph Island Streams	3,000
Jobammeghia Lake	1,600	Sand Lake	3,200
Kaskawong River	2,400	Sand River	$\frac{2,400}{2,400}$
Kelly Lake	1,000	Saymo River	$\frac{2,400}{2,400}$
Kendogami River	3,200	Sesabic Lake	3,500
Lake One	1,000	Sharp Sand River	1,500
Laughing Lake Bay	2,400	Shumka Lake	2,500
Lessley Lake	1,500	Silver Creek	3,000
Little High Lake Little White River	1,000	Silver Lake	1,000
Lonely Lake	$\frac{2,400}{3,000}$	Sister Lake No. 1	800
Long Lake (Meredith)	1,500	Sister Lake No. 2	1,600
Long Lake (Whitman)	1,000	Snowshoe Creek	2,200
Loon Lake (Deroche)	2,500	Speckled Trout Lake (1A.)	2,400
Loon Lake (24-R-13)	4,700	Speckled Trout Lake (28-R-16)	1,600
Loonskin Lake	3,200	Speckled Trout Pond (176).	1,000
Lower Island Lake	2,000	Spring Creek	2,000
Lower Pine Lake	1,600	Spruce Lake	2,400
Lower Twin Lake	1,600	Storehouse Creek	2,000
Mader Lake	1,600	Sucker Lake	1,600
Mamainse Harbor	1,000	Summitt Lake	4,850
Mary Ann Lake	1,000	Tamarack Lake Tawabinasay Lake	$\frac{800}{3,200}$
Mashagama Lake	5,400	Tea Lake	1,800
Merchant Lake	3,000	Thessalon River	4,200
Mica Bay Creek	750	Triple Lake	1,600
Mile 58 Lake	1,600	Trout Creek	1,000
Mill Creek	1,600	Trout Lake (Aweres)	2,000
Minnow Lake	$\substack{3,000\\750}$	Trout Lake (Montgomery)	1,500
Maunshe Megoose Lake	1,600	Trout Lake (62)	3,000
McCauley Lake	1,200	Trout Lake (25-R-14)	3,800
McCormick Lake	1,600	Trout Lake Creek	1,000
McCrea Lake	2,400	Trout_Lake_Inlet	2,350
McDonald Stream	1,000	Two Tree River	4,400
McLeod Creek	1,250	Unnamed Lake (Larkin)	1,000
McVeigh Creek	1,600	Upper Pine Lake	$\frac{1,600}{2,000}$
Michipicoten River	8,000	Upper Twin Lake	3,000
Mongoose Lake	3,200	Victoria Creek Vixon Lake	3,200
Moose Lake (25-R-13)	3,200	Wallace Lake	800
Moose Lake (Wells)	1,600	Wartz Lake	2,400
Mountain Lake (1A.)	3,200	Wawa Lake	5,200
Mountain Lake (Gould)	1,600	Weashog Lake	526
Mountain Lake (McMahon)	1,600	White River	4,400
Mud Creek (Vankoughnet)	$\frac{2,500}{1,300}$	Williams Creek	1,500
Mud Lake (1A.)	1,100	Wonashin Lake	1,600
Odowbi Lake	800	Woods Creek	2,400
Ozone Creek	3,000	Brant:	
Pancake River	3,800	St. George Lake	500
Paquette Lake	5,600	o .	900
Peter Lake	1,500	Bruce:	
Pike Lake	1,200	Barrow Bay Creek	3,300
Pine Lake (1A.)	1,600	Formosa Creek	100
Pine Lake (25-R-11)	1,600	Nine Mile Creek	1,600

SPECKLED TROUT—Continued		Mackie Lake	2,000
		Mallory Creek	4,800
Bruce—Continued.		Quackenbush Lake	2,000
Silver Stream (Amabel)	3,600	Reid's Lake Rock Lake	2,400
Silver Stream (Carrick)	1,400	Round Schooner Lake	$\frac{2,400}{1,000}$
Spring Creek	3,600	Schooner Lake	1,800
Vance's Creek	200	Spring Creek	1,000
Willow Creek	750	Spring Creek	1,000
Cochrane:		Grey:	
Big Gully Creek	1,000	Bass Lake	3,000
Elsie Lake	1,000	Beatty Saugeen River	4,300
Grassy River	1,000	Beaver River	$\frac{4,600}{600}$
Junction Lake Legare Lake	$\substack{900 \\ 1,200}$	Bells CreekBig Head River	3,600
MacDonald Lake	900	Black's Beach	3,600
Paradise Creek	1,000	Black Creek	1,000
Red Stone River	2,600	Boyds Lake	5,400
Red Sucker River	2,600	Boyne River	4,100
Round Lake	1,200	Caseman's Creek	200
Rushton Lake	1,000	Christie Lake	2,550
Thunder Creek	900	Cotter's Creek	300
Unnamed Lake (Bristol Tp.)	900	Craigs Creek	300
Unnamed Lake (Deloro Tp.)	2,700	Cullen Lake	100
Unnamed Lake (German Tp.)	800	Deer Creek	1,800
Unnamed Lake (Macklem Tp.)	2,100	Ewart Lake Ferguson Creek	6,600 $950$
Unnamed Lake (Tisdale Tp.)	1,700	Firths Creek	1.800
Dufferin:		Glen Creek	1,800
	2,700	Hayward Falls	1,200
Cemetery Creek Credit River	8,300	Hydro Pond	7,200
McKitrick Stream	1,800	Lamont's Creek	100
Mulmur Lake	1,400	Lawrence Creek	950
Nottawasaga River	7,200	Manx Creek	1,800
Pine River	3,750	Mary Lake	200
		McCaslin Creek	200
Durham:		McConnell Creek	1,000
Ard's Creek	100	McIntosh Lake	1,800 1,000
Ball's Creek	100	McLean's Creek	200
Beatty's Creek	200	McMullen's Creek	950
Carveth Creek	$\frac{100}{100}$	Munshaw Lake	500
Cowan Stream	$\frac{100}{700}$	Oxenden Creek	3,300
Dawson's Creek	500	Paddy's Creek	3,600
DeLong Creek	900	Rocky Saugeen	4,800
Dyer's Creek	1,100	Saugeen River	18,850
Frew's Creek	200	Spey River	2,500
Goodman's Pond	200	Spring Creek	1 000
Hall's Stream	200	Stream at Markdale	$\frac{1,000}{650}$
Harris Creek	300	Styx River	11,800
Laing's Stream	100	Tannery Creek	650
Luxton's Creek	1,000	Walker Creek	300
Mercer's Creek	$\begin{array}{c} 200 \\ 100 \end{array}$	Williams Lake	3,000
Muldrew Creek	200	Youngs Lake	1,500
Powell's Creek	200		,
Sowden Stream	200	Haliburton:	
Unnamed Creek	400		500
		Bear Creek	1.200
Frontenac:		Clear Lake	2,400
Camp Lake	2,400	Cranberry Lake	1,000
Crotch Lake	1,500	Davis Lake	400
Gibson Lake	4,800	Fletcher Lake	1,000
Grindstone Lake	4,800	Gull River	1,000
Lucky Lake	2,400	Gun Lake	4,800

SPECKLED TROUT—Continu	ıed	Kenora:	
		Elbow Lake	2,500
Haliburton—Continued.		Little Vermilion Lake and	
Harvey Lake	350	Streams	7,800
Hawke River	$\substack{500 \\ 4.800}$	Silver Lake	2,500
McCue Creek	1,500	Lanark:	
Oxtongue Lake	1,500	Craigs Creek	1,500
Partridge Lake	500	Paul's Creek	3,600
Pen Lake Raven Lake	1,500	Long Sue Creek	1,200
Round Lake	$\frac{2,750}{350}$	Lennox-Addington:	
Scotch Line Creek	500	Beaver Creek	4,800
Stormy Creek	500	Brown's Lake	3,200
Sunken Lake	500	Burns Lake	3,200
Welcome Lake	1,500	Conner's Lake	2,400
		Copeland Lake	2,400
Hastings:		Dafoe Lake Douglas Lake	$\frac{2,400}{1,600}$
Alexander Creek	1,500	East Lake	1,600
Banker Lake	3,600	Green Lake	4,800
Bob Whyte Lake	$\begin{array}{c} 800 \\ 2,400 \end{array}$	Kilborn Lake	1,000
Buck Lake	2,400	Long Lake Loon Lake	$\frac{2,400}{1,000}$
Cannon's Lake	1,200	Rattan Lake	4.800
Canoe Lake	2,400	Rock Lake	2,400
Cockburn Lake Deer River	$\frac{2,400}{9,600}$	Shiner Creek	2,400
Devil Lake	2,400	Snake Creek	4,800
Diamond Lake	4,800	White Lake	9,600
Echo Lake	3,000	Lincoln:	
Egan Creek	14,400	St. Davids Spring Creek	2,000
Faulkner's Creek Fraser Creek	$\frac{1,500}{4,800}$	St. Davius Spring Creek	2,000
Fraser Lake	2,400	Manitauline	
Geens Creek	2,400	Manitoulin:	2 500
Green Lake (Bangor)	3,000	Badger CreekBarr's Creek	$\frac{3,500}{6,600}$
Green Lake (Cashel)	2,400	Bluejay Creek	30,000
Hineses Lake	$1,600 \\ 1,200$	Bonnie Doone Creek	1,600
Little Lighthouse Lake	1,200	Hare's Creek	2,600
Little Mississippi Lake	4,800	Manitou River	$\frac{25,000}{30,000}$
Long Lake (Herschel)	1,200	Mindemoya River Nortons Creek	2,000
Long Lake (Mayo) MacKenzie Lake	$\frac{2,000}{2,400}$	Silver Creek	1,600
Mill Creek	4,200	Srigley Creek	5,200
Mud Lake	1,200	Spring Creek	6,000
Mud Turtle Lake	2,400		
Oak Lake	3,000	Middlesex:	
Papineau Creek	$\frac{4,800}{2,400}$	Fanshaw Creek	2,150
Rawdon Creek	7,200	Wye Creek	3,000
Shire Creek	4,800	26.2.2	
Smiths Lake	5,400	Muskoka:	0.00
Squires Creek Stoney Lake	$9,600 \\ 2,400$	Atkinson Lake	$\frac{800}{2,400}$
Thirty Island Creek	2,400	Beaver Creek	6,000
initial crown	2,100	Bella Lake	6,000
Huron:		Bells Lake	2,000
	200	Big East River	24,000
Belgrave Creek	$\frac{300}{500}$	Big Turtle Lake Big Wind Lake	$1,600 \\ 1,600$
Glaziers Creek	300	Bird Lake	1,600
Maitland River	2,400	Black Creek	6,000
St. Helen's Creek	500	Black River	3,200
Spring Creek	300	Bradford Creek	1,000

SPECKLED TROUT—Contin	ıued	Callahan Lake	1,500
Muskoka—Continued		Canon Lake	1,000
	9 900	Canoe Lake Cauchon Lake	2,500
Buck Lake	3,200	Cedar Lake	250
Clear Lake (Oakley)	1,600	Chippewa Creek	$\frac{250}{3,400}$
Clear Lake (Ridout)	3,000 5,000	Clark Lake	5,400 $500$
Clear Lake (Sinclair)	$\frac{5,000}{3,000}$	Clear Lake (Chambers)	800
Coopers Lake	4,000	Clear Lake (Field)	3.000
Deep Lake	3,200	Clear Lake (Lyell)	500
Dog Lake	3,000	Clear Lake (Notman)	1,000
East River	3,000	Cold Stream	500
Eastall Lake	2,000	Coon Lake	1,000
Echo Lake	11,000	Crane Lake	1,000
Fairy Lake Creeks	6,000	Crooked Lake	200
Fox Lake	6,000	Cutler Lake	1,600
Fraser Lake	1,000	Devils Lake	800
Gibbs Lake	4,000	Dorans Creek	4,000
Goose Lake	6,000	Emerald Lake	2,500
Grants Lake	3,200	Finlayson Lake	1,500
Grindstone Lake	1,600	Found Lake	1,000
Gull Lake	3,200	Four Mile Creek	8,000
Hecks Lake	4,000	Gauthier Lake	250
Helve Lake	2,000	Gauthier Pond	750
High Lake	2,000	Gilmour Lake	250
Jessops Creek	3,000	Gorman Creek	1,500
Lake of Bays	19,200	Grand Lake	250
Limpers Lake	1,600	Green Lake	500
Little East River	12,000	Guppy Lake	800
Little Turtle Lake	1,600	Henderson Lake	1,500
Little Vernon Lake	1,000	Heron Lake	500
Long Lake	3,200	Hot Lake	1,000
Loon Lake	1,000	Jocko River	12,800
Loon Lake Creek	2,000	Jubilee Lake	1,000
Mary Lake	6,000	Kioshqua Lake	250
Muskoka River	49,200	Lake St. Andrew Lake of Two Rivers	250
Peninsula Lake	12,000	Little Island Lake	2,000
Rebecca Lake	$\frac{6,000}{5,000}$	Little Island Lake Little Jocko River	$\frac{1,000}{6,400}$
Round Lake	6,000	Loon Lake	800
Shoe Lake	1,500	Lost Lake	1,000
Skeleton River	5,500	McDonald Lake	1,500
Solitaire Lake	6,000	McGee Creek	1,500
Sparks Lake	1,000	Mew Lake	500
Split Rock Lake	2,000	Moores Lake	2,000
Trout Lake	600	North River	13,350
Upper Shewfelt Lake	800	Opeongo River	250
Vernon Lake Creek	6,000	Opinicon Creek	2,800
Waseosa Lake	6,000	Park Lake	1,000
White Lake	3,200	Radiant Lake	250
Wolf Lake	1,500	Red Rock Lake	250
		Robitaille Lake	500
N72		Rock Lake	500
Nipissing:		Smoke Lake	2,000
Acanthus Lake	250	Smoky Creek	3,750
Antoine Creek	3,400	Source Lake	1,500
Bakers Creek	<b>1,</b> 500	South Tea Lake	1,000
Balsam Creek	3,400	Spawning Lake	800
Bastien Creek	1,500	Speckled Trout Lake	500
Billy Lake	1,000	Spring Lake (McLaren)	$\frac{3,400}{1,500}$
Billy Neil Creek	<b>1,5</b> 00	Spring Lake (Sisk)	1,500
Blue Lake	250	Stony Creek (Lyman)	1,000
Burnt Creek	2,000	Stony Creek (Notman)	500
Burrett's Creek	3,000	Sturgeon Lake	3,400
Cache Lake	3,000 2,500	Tanamakoon Lake	2,000
Cache Bake	2,500	Timagami Lake	2,800

SPECKLED TROUT—Continu	ıed	Clear Lake	
Niniaging Continued		(South Himsworth) Clear Lake (Wilson)	500
Nipissing—Continued.	0.00	Commanda Lake	$700 \\ 1.600$
Trout Lake	$\begin{matrix} 800 \\ \textbf{1},000 \end{matrix}$	Crooked Lake	4.200
Trout Lake (Parkman) Twenty Minute Lake	1,600	Cummings Lake	600
Webb Lake	1,800	Deer Creek	700
Whitefish Lake	3,000	Deer Lake	700
White Partridge Lake	250	Deer River	1,700
Whitney Lake	2,600	Distress River	2,800
Wolf Lake	8,000	Dunkers Creek	1,000
		Eagle Lake	1,000
Norfolk:		Flaming Lake	600
Almond Creek	500	Fleming Lake Franks Lake	1,300 1,000
Bassels Creek	500	Genesee Creek	1,200
Big Creek	1,540	Gorge Lake	750
Campbell Creek	500	Gull Lake	500
Eckardt Creek	500	Haggerty Creek	500
Howey Creek	$\begin{smallmatrix} 500 \\ 2,000 \end{smallmatrix}$	Hog Lake	800
Nanticoke Creek	3,000	Horn Lake	1,800
Patterson Creek	1,000	Hughes Lake	2,250
Ryerse Creek	1,000	Hungry Lake Creek	750
Synden Creek	500	Island Lake	600
Venison Creek	3,000	Jacks Lake Creek	400
Wolfe Creek	500	James Creek	900
		Jordons Creek	$\begin{array}{c} 600 \\ 100 \end{array}$
Northumberland:		Little Mink Lake	2,250
Baltimore Creek	2,800	Lynx Lake	800
Big Creek	4,000	Madill Creek	500
Burnley Creek	4,800	Magnetawan River	11,500
Chidleys Creek	$\begin{array}{c} 100 \\ 2,400 \end{array}$	McCullough Creek	2,400
Dartford Creek Dawson Creek	1,500	Otter Lake	1,300
DeLong's Creek	1,600	Owl Lake	600
Duncan's Creek	800	Paisley Creek	1,300
Little Cole Creek	4,000	Pool Lake	900
Little Lake	3,600	Proudfoot Creek	500
Mill Creek	200	Ragged Creek	900 <b>3,</b> 000
O'Grady's Creek	2,700	Rainy Lake	1,700
Pegman's Creek	1,600	Round Lake	1,750
Quinn's Creek	800	Roussel's Creek	500
Robins Creek	200	Sand Lake	3,400
Sandy Flat Creek Valleau's Creek	1,600	Smiths Creek	1,300
vanieau's Creek	800	South River	2,400
Ontario:		Spring Creek (Chapman)	1,500
Beaver River	2,400	Spring Creek (Lount)	6,500
Cameron Creek	1,000	Steels Creek	1,500
Elgin Park Pond	1,000	Stellars Creek	600
	_,	Stoney Lake Stream in Ryerson Township	$\frac{2,800}{1,700}$
Parry Sound:		Surprise Creek	750
Bar Lake Creek	500	Tea Lake	1,000
Barrett's Creek	1,200	Three Mile Creek	1,400
Beaver Lake	$1,500 \\ 1,200$	Trout Creek (Himsworth)	3,400
Big Clam Lake	800	Trout Creek (Laurier)	2,700
Big Mink Lake	3,200		
Black Creek (Gurd)	1,500	Peel:	
Black Creek (Strong)	2,200	Credit River	5,200
Bradford Creek	600	Humber River	2,100
Buck Lake	500	Addition terror	2,100
Burley's Creek	500	Detemberough:	
Cheer Lake	500	Peterborough:	4.000
Clear Lake (Armour)	1,000	Big Ouse River	4,800
Clear Lake (Laurier)	2,500	Carvers Creek	1,500

SPECKLED TROUT—Continu	aed	Rockingham Creek Round Lake	1,500 4,000
Peterborough—Continued		Siroski's Creek	3,000
Cavan Stream	6,800	Smith Creek	2,500
Eel's Creek	3,200	Spring Creek Stewart Creek	$\frac{1,500}{3,000}$
Little Ouse River	4,800	Toohey Lake	3,000
Mount Pleasant Stream	3,200	Trout Lake	1.500
Otter Creek	2,600	Tucker Creek	3,000
Plateau Creek	2,600	Turner Creek	4,500
Sophies Lake	1,600	Unnamed Creek, Brougham	1,000
Union Creek	4,800	Wylie Creek	3,000
Renfrew:			
Barbout Creek	2,000	Simcoe:	
Battery Creek	500	Black Creek	1,500
Bear Lake	<b>1</b> ,500	Boyne River	1,000
Biggs Creek	2,000	Colwell's Creek	1,500
Big Round Lake	2,000	Hill's Creek	1,500
Bissett Creek	$\frac{3,250}{2,000}$	Matheson Creek	1,500
Brennan's Creek	1,500		
Byers Creek	2,500		
Caldwell Creek	1,000	Sudbury:	
Centers Lake	4,000	Anderson Lake	5,000
Clarkes Creek	1,500	Awry Creek	6,000
Cochrane Creek	1,500	Barley Creek	15,000
Crooked Lake Creek	1,000	Bertrand Creek	5,000
Cross Lake	1,500	Bull Lake	19,000
Crozier Creek  Deux Riviere Creek	$\frac{2,500}{2,500}$	Cameron Creek	$\frac{2,000}{5,000}$
Devils Lake	1,000	Crystal Lake	3,000
Diamond Lake Creek	1,500	Ella Lake	10,000
Dodge Lake	2,000	Emery Creek	5,000
Dominick Lake	1,500	Farm Lake	3,000
Finley Creek	1,500	Fournier Creek	20,000
Gardez Pieds Creek	4,500	Geneva Creek	15,000
Godin Creek	$\frac{250}{250}$	Green Lake	10,000 30,000
Grant Creek	$\frac{3,250}{1,500}$	Johns Creek	5,000
Gultz Creek	1,500	Karl Creek	2,000
Hammel Lake	200	Long Lake (Harrow)	1,000
Hart Lake	1,500	Long Lake (Strathearn)	1,500
Harvey Creek	3,000	McLanders Creek	7,000
Heney Creek	2,000	McLeod Creek	3,000
Horton Creek	500	Michauds Creek	10,000
Hughey Creek	$\frac{1,000}{3,000}$	Moose Creek	$\frac{4,000}{4,000}$
Johnson Lake	500	Post Creek	10,000
Josie Creek	1,500	Pumphouse Creek	30,000
Kelly Lake Creek	3,500	Rapid River	9,000
Koehls Creek	1,500	Rock Lake	2,500
Lake in the Hills	1,000	Round Lake	5,000
Locksley Lake Creek	2,500	Sandcherry Creek	10,000
Lost Lake	$\frac{1,500}{4,500}$	Sauble River Second Lake	50,000
MacKay Creek	$\frac{4,500}{3,000}$	Shenango Creek	3,500 1,450
McDermott's Creek	1,250	Shoal Lake Creek	1,000
Meilleur Lake	1,000	Trout Creek	3,000
Miller's Lake	1,500	Trout Lake	2,500
Nadeau Creek	1,500	Trout Lake (5-6)	4,000
Paugh Lake	3,000	Twin Lake	1,500
Pumaile Lake	1,500	Veuve River	20,000
Quadville Creek	$\frac{1,500}{1,500}$	Waddell Creek	$9,000 \\ 10,000$
Rattery Lake	1,000 $1,000$	Wavy Creek	20,000
	2,000	may crook	,,,,,,

SPECKLED TROUT—Continu	ied	Little Lake	2,000
Thunder Bay:		Little Partridge Lake Little Whitefish River	$\frac{2,400}{3,000}$
Anderson Creek	2,400	Loftquist Lake	18,500
Arnold Creek	1,000	Log Lake	600
Arrow River	3,000	Lonely Island Lake	2,000
Bass Creek	3,000	Loon Creek	
Bat Lake	2,000	Loon Lake	2,000
Beardmore Creek	3,000	Lost Lake	27,400
Bear Trap Lake	3,000	Lower Good Morning Lake	$\frac{2,400}{5,000}$
Beaver Lake	3,000	Lower Pass Lake	3,000
Big Duck Lake	4,000	Lower Twin Lake	2,400
Big McKenzie River	12,000	Lower Wiggins Lake	5.000
Big Partridge Lake	3,000	Mac's Lake	800
Billy Creek	1.500	MacGregor Lake	1,400
Bishop Lake	2,000	Maggot River	1,000
Blind River	7,500	McIntyre River	14,000
Bluff Lake	2,000	McLean's Lake	2,500
Boulevard Lake	3,000	McVicars Creek	9.000
Brule Creek		Mine Lake	3,500
Canadian National Rly. Lake	7,000	Mirror Lake	3,000
Mile 51	1 500	Moonshine Lake	2,750
Cavern Creek	1,500	Moose Creek	3,000
Cedar Creek	4,000	Moose Lake	
Clearwater Creek	15,000	Morgan's Creek	$\frac{3,000}{2,000}$
Clearwater Lake	1,500	Mountain Lake	500
Coldwater River	500	Mud Lake	308
Corbett Creek	14,000	Neebing River	
Cousineau Lake	5,000	Nilson Lake	$\frac{28,500}{2,000}$
Current River	2,000	Nipigon River	58,400
Dan's Lake	12,000	Nishin Lake	6,000
Deception Lake	2,400	Oliver Lake	12,500
Deep Lake	2,000	Ozone Creek	2,900
Devils Lake	1,000	Paradise Lake	2,000
Dublin Creek	2,000	Park Lake	1,500
Duck Lake	4,000	Parsons Lake	4,000
Fall Lake	2,000	Pass Lake	12,000
Fire Lake	2,000	Pearl River	6,000
Fire Hill Lake	1 000	Pickerel Lake	2,000
Fischer Lake	1,000	Pitch Creek	6,000
Fraser Creek	4,000	Pocket Lake	500
Golden Gate Lake	$\frac{6,000}{4,000}$	Rainbow Lake	3,000
Good Morning Lake	10,000	Rat Lake	1,600
Gowganda Creek		Ring Lake	6,400
Grand Lake	2,000	Ross Lake	3,000
Granite Lake	$\frac{2,000}{3,000}$	Round Lake	2,000
Grass Lake	1,500	Sameco Lake	2,000
Gravel Lake	3,000	Sand Lake	6,400
Gravel River	6,000	Selim River	1,000
Green Lake	3,000	Silver Islet Lake	3,000
Gunderson Lake	1,000	Silver Lake	7,000
Hackle Lake	2.000	Single Lake	3,000
Half Moon Lake	2,000	South Sucker Creek	5,000
Hazelwood Creek	6,000	Sox Lake	2,500
Hemdick Lake	4.000	Spring Creek	6,000
Hidden Lake	3,000	Spring Lake (Leduc)	2,000
Hornblend Lake	2,000	Spring Lake (McTavish)	400
Indian Lake	1,000	Squaw Creek	3,000
Jackpine Lake	3,000	Star Lake	3,000
Jackpine River	1,000	Strawberry Creek	6,000
Jackson Lake	2,000	Surprise Lake	1,500
Johnson Lake	100	Trout Creek	5,000
Kaministiquia River	6,000	Trout Lake (Jacques, etc.)	28,000
Lake Ada	2,000	Trout Lake (Stirling)	24,000
Lake Eva	3,500	Twin Lakes	3,000
La Saga Lake	3,000	Uncle Tom's Lake	3,000
	5,000	Onoic Tom's Lane	0,000

### SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1st, 1939, to March 31st, 1940—Continued

SPECKLED TROUT—Contin	ued	Wellington:	
m 1 D 0 11 -1		Bell's Creek	3,600
Thunder Bay—Continued.		Dwyer Creek	300
Unnamed Lakes and Creeks	2,500	Mallot's Creek	500
Upper Morgan Creek	2,000	Mill Creek	600
Upper Pass Lake	3,000	Ospring Creek	600
Upper Pearl River	6,000	Saugeen River	7,200
Upper Twin Lakes	3,000	Vonley	
Walker Lake	$6,000 \\ 1,500$	York:	
Warnford Creek	3,000	Doan's Pond	150
Whitefish River	6,000	7.71	
Whitewood Creek	6,500	Miscellaneous:	
Wideman Lake	6,000	Sales—Demonstration and	
Wild Goose Creek	1,500	propagation purposes	9,035
Wolf Lake	3,000		
Wolf Pup Lake	3,000	ADULTS	
Temiskaming:			
	900	Algoma:	
Beaver Lake	800	Island Lake	1,100
Belle Lake Boston Creek	$1,000 \\ 1,000$	Lake Elizabeth	150
Butler Lake	1,000	Lake Maude	<b>1</b> 50
Calcite Creek	1,500		
Charlotte Lake	1,500	Thunder Bay:	
Collacutt Lake	1,000	Cedar Creek	200
Crooked Creek	1.000	Coldwater River	985
Crystal Lake	5,000	Half Moon Lake	200
Dandurand Creek	1,200	Loftquist Lake	800
Gleason Creek	1,000	Loon Lake	400
Graham Lake	1,000	Moose Creek	200
Green Lake	1,200	Nipigon River	240
Halfway Creek	800	Spring Creek	250
Hooker Creek	800	Squaw Creek	300
Jean Baptiste Lake	1,000	Trout Creek	300
Lake of Bays	1,300	Trout Lake	800
Latour Creek	1,000	Miscellaneous:	
Leacock Creek	1,000		
Legare Creek	1,000	Sales—Demonstration and	0.40
Linnament Lake	800	propagation purposes	240
Little Otter	1,500 1,500		
Loon Lake	1,500		
Munro Lake	800	HERRING FRY	
Nellie Lake	1,200		
Pike Creek	1,500	Frontenac:	
Rowley Lake	1,300	Rideau Lake	1,000,000
St. Anthony Creek	1,000		, . ,
Small Spot Creek	800	Prince Edward:	
South Wabi Creek	1,000	Bay of Quinte	2,425,000
Spring Creek	<b>1,5</b> 00		,,.
Sunshine Lake	1,500	Great Lakes:	
Wabi Creek	1,000	Lake Erie	33.750.000
Watabeag River	800	Lake Ontario	
Wendigo Creek	1,000		_,,_
Whiskey Jack Creek	1,800		
Victoria:		WHITEFISH FRY	
Corbin's Creek	300		
Crego's Creek	300	Kenora:	
		Eagle Lake	1,000,000
Waterloo:		Lake of the Woods	15,894,000
Elora Creek	2,000	Red Lake	500,000
Erbsville Creek	1,200	Separation Lake	500,000
Mannheim Creek	1,200	Trout Lake	600,000

### SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1st, 1939, to March 31st, 1940—Continued

#### WHITEFISH FRY—Continued

Manitoulin: Manitou Lake 1,250,000
Prince Edward: Bay of Quinte
Rainy River: Rainy Lake
Thunder Bay: Lake Nipigon
York:
Lake Simcoe 1,500,000
Great Lakes:
Lake Superior       6,465,000         North Channel       18,800,000         Georgian Bay       60,520,000         Lake Huron       26,015,000         Lake Erie       83,588,000         Lake Ontario       28,625,000

APPENDIX No. 2
DISTRIBUTION OF FISH ACCORDING TO SPECIES—1935 TO 1939, INCLUSIVE

	1935	1936	1937	1938	1939
Large-mouthed Black Bass  Fry Fingerlings Yearlings & Adults	130,000 2,153 27*	45,000 8,398	135,000 4,120 92	57,500 8,061	1,890 497
Small-mouthed Black Bass  Fry  Fingerlings  Yearlings & Adults	696,000 153,065 3,435	780,000 69,380 5,202	1,275,000 141,900 5,893	804,000 169,800 7,738	1,386,000 226,325 7,739
Maskinonge Eyed Eggs Fry Fingerlings	460,000	274,000	420,700	2,005,000	120,000 2,675,000 1,300
Perch—Fry	53,031,400	46,080,000	9,150,000	59,150,000	72,360,000
Pickerel (Yellow)	33,031,400	40,000,000	5,130,000	00,100,000	12,360,000
Eyed Eggs	2,000,000 229,629,000	2,000,000 300,759,500	2,000,000 263,743,400	2,012,500 271,567,500	7,000,000 327,500,000
Pickerel (Blue) Fry			1,000,000	500,000	
Brown Trout Fingerlings Yearlings Adults	109,000 9,650 6*	147,050 7,290	97,484	{ · · · · · · · · · · · · · · · · · · ·	29,954 375,070
Lake Trout  Eyed Eggs Fry Fingerlings	7,773,034 14,564,000	3,209,400 4,165,000 18,253,244	3,225,000 4,667,000 15,782,350	2,437,000 7,665,000 10,575,200	1,845,850 7,236,900 9,964,400
Landlocked Salmon (Ouananiche) Yearlings	13,640				
Atlantic Salmon—Fry			7,200	4,800	
Rainbow Trout  Eyed Eggs					
Fry Fingerlings Yearlings Adults	134,075 314	133,000 3,507	105,240	321,600 6,727	109,63 23,14 1,00
Kamloops Trout—Fingerlings	85,464 10,796		80,000	25,821	105,00
Speckled Trout  Eyed Eggs Fry Fingerlings Yearlings Adults	1,645,000 5,013,831 35,421 5,420	28,600 182,000 1,053,050 557,270 6,081	384,725 1,167,073 16,150	1,000 373,314 2,083,538 4,452	337,00 2,976,55 6,31
Whitefish Eyed Eggs		112,500 428,402,000	4,000,000	323,700,500	326,657,00
Herring - Eyed Eggs	43,760,000	56,120,000	30,000 5,270,000	49,725,000	38,550,00
Golden Shiners	500				
Miscellaneous			3,053		4
TOTALS		862,401,472	696,395,280	733,265,643	799,496,629

<sup>\*</sup> Exhibition fish

<sup>\*\*</sup> This total does not include a distribution of 132,646,600 fry and eyed eggs during the five months immediately preceding the said report.

#### **APPENDIX**

#### GAME AND FISHERIES

Statistics of the Fishing Industry in the Public Waters of

#### EQUIP

District	No. of Men		Tug	s		asoline iunches		and Boats	Gill	Nets
		No.	Tons	Value	No.	Value	No.	Value	Yards	Value
Northern Inland Waters Lake Superior North Channel Georgian Bay Lake Huron Lake St. Clair Lake Erie Lake Ontario Southern Inland Waters	199 432 389 132	3 10 8 17 18  36	15 328 118 490 454		122 55 130 122 55	\$ 67,245 45,075 32,680 109,740 79,110 13,460 221,375 120,375 2,770	272 43 45 134 32 75 125 129 107	\$13,802 2,825 2,780 5,955 1,975 3,875 6,530 4,682 3,828	891,128	99,067 74,811 137,282 166,881 249,146 126,590
Totals	4,206	92	2,191	\$627,980	1048	\$691,830	962	46,252	8,488,015	918,937

#### APPENDIX

#### QUANTITIES OF

District	Herring	Whitefish	Trout	Pike	Pickerel (Blue)	Pickerel (Dore)
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
Northern Inland Waters Lake Superior North Channel Georgian Bay Lake Huron Lake St. Clair Lake Erie Lake Ontario Southern Inland Waters	897 1,398,408 5,133 54,007 263,127 1,973,355 1,626,994 305		1,307,365 504,365 1,448,917 1,250,115 25 268,835	744,792 8,985 64,028 25,565 616 32,587 97,217 87,794 1,685	11,983 608 4,344 4,075 5,910,769 100,538	1,294,169 93,962 33,262 103,538 213,410 54,935 586,100 10,259 4,587
Totals	5,322,226	6,366,973	5,075,802	1,063,269	6,157,383	2,389,635
Price per pound	.05	.11	.11	.06	.05	.11
Values	\$266,111.30	\$700,367.03	\$558,338.22	\$63,796.14	\$307,869.15	\$262,859.85

No. 3

#### DEPARTMENT, ONTARIO

Province of Ontario, for the Year Ending December 31st, 1939.

#### MENT

	Seine 1	Nets	Poun	d Nets	Hoor	Nets	_	and Nets	Night	Lines	Sp	ears	-	ezers & Houses		ers and harves	Total Value
No.	Yards	Value	No.	Value	No.	Value	No.	Value	No. Hooks	Value	No.	Value	No.	Value	No.	Value	
30 39 12 52	500 6,700 13,900 620 4,295	\$585 3,943 7,410 654 12,312	50 56 79 131 124 639	23,100 84,050	55	755  1,000 10,680	1 2 6	\$ 5 102 30 137	3,400 18 16,562 10,404 3,300 2,500 2,400 600	50 4,134 2,855 214 52 1,020		875	42 41 65 68 18 104 34	\$27,480 14,085 12,500 18,765 26,300 107,025 7,515 1,514	38 29 63 29 12 93 32	\$10,322 9,060 12,400 31,731 6,520 3,725 36,035 7,010 285	203,471 503,621 484,452 44,119 1,216,073 278,663
137	26,015	24,904	1,121	\$540,185	760	\$ 19,937	68	\$449	39,184	\$8,895	105	\$875	513	\$220,884	395	\$117,088	\$3,218,816

#### No. 4

#### FISH TAKEN

Sturgeon	Eels	Perch	Tullibee	Catfish	Carp	Mixed Coarse	Caviare	Total	Value
lbs.	· lbs.	₩s.	lbs.	lbs.	lbs.	lbs.	lbs.	ħs.	
3,173 4,231 1,225 2,951 8,834	22,742	1,407,232 153,048	36,629 3,983 98,483	61 8,767	34,435 	106,938 176,673 76,005 132,326 331,323 1,535,422 230,429	45 43 243 344 903	3,307,237 959,683 2,988,821 2,495,952 784,299 14,264,011 3,512,040	269,245.94 88,348.13 310,122.36 220,493.01 41,514.09 867,889.51 234,437.83
215,062	27,329	1,935,375	547,865	379,681	1,142,283	3,224,019	3,387	33,850,289	
.40	.07	.05	.06	.08	.05	.03	1.00		
\$86,024.80	\$1,913.03	\$96,768.75	\$32,871.90	\$30,374.48	57,114.15	96,720.57	3,387.00		2,564,516.37

 $\begin{array}{c} \textbf{APPENDIX} \ \ \textbf{No.} \ \ 5\\ \textbf{COMPARATIVE STATEMENT OF THE YIELD OF THE FISHERIES OF ONTARIO} \end{array}$ 

Kind	1938 Pounds	1939 Pounds	Increase Pounds	Decrease Pounds
Herring Whitefish Trout Pike Pickerel (Blue) Pickerel (Dore) Sturgeon Eels Perch Tullibee Catfish Carp Mixed and Course Caviare	4,702,917 4,947,679 6,040,471 1,003,787 7,317,124 2,312,830 157,582 52,606 2,977,846 759,778 474,058 1,072,070 3,091,352	5,322,226 6,366,973 5,075,802 1,062,269 6,157,383 2,389,635 215,062 27,329 1,935,375 547,865 379,681 1,142,283 3,224,019 3,387	619,309 1,419,294 	964,669 1,159,741 
TOTALS	34,913,941	33,850,289		*1,063,652

#### \* Net Decrease

# APPENDIX No. 6 STATEMENT OF THE YIELD OF THE FISHERIES OF ONTARIO 1939

Kind	Quantity Pounds	Price per Pound	Estimated Value
Herring Whitefish Trout Pike Pickerel (Blue) Pickerel (Dore) Sturgeon	5,322,226 6,366,973 5,075,802 1,063,269 6,157,383 2,389,635 215,062	\$ .05 .11 .11 .06 .05 .11	\$266,111.30 700,367.03 558,338.22 63,796.14 307,869.15 262,859.85 86,024.80
Eels Perch Tullibee Catfish Carp Mixed and Course Caviare	27,329 1,935,375 547,865 379,681 1,142,283 3,224,019 3,387	.07 .05 .06 .08 .05 .03	1,913.03 96,768.75 32,871.90 30,374.48 57,114.15 96,720.57 3,387.00
TOTALS	33,850,289		\$2,564,516.37

#### APPENDIX No. 7

## ESTIMATED VALUE OF FISH TAKEN FROM THE WATERS OF THE PROVINCE 1920-1939 INCLUSIVE

	1020 1000	11101101111	
1920	 \$2,691,093.74	1930	\$2,539,904.91
1921	 2,656,775.82	1931	2,442,703.55
1922	 2,807,525.21	1932	2,286,573.50
1923	 2,886,398.76	1933	2,186,083.74
1924	 3,139,279.03	1934	2,316,965.50
1925	 2,858,854.79	1935	2,633,512.90
1926	 2,643,686.28	1936	2,614,748.49
1927	 3,229,143.57	1937	2,644,163.49
1928		1938	2,573,640.97
1929	 3,054,282.02	1939	$\dots 2,564,516.37$

### Thirty-Fourth Annual Report

OF THE

# Game and Fisheries Department

1940 - 1941

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 9, 1942



#### TORONTO

TO THE HONORABLE ALBERT MATTHEWS,

Lieutenant-Governor of the Province of Ontario.

#### MAY IT PLEASE YOUR HONOUR:

I have the honour to submit herewith for the information of Your Honour and the Legislative Assembly, the Thirty-Fourth Annual Report of the Game and Fisheries Department of this Province, for the year ended March 31st, 1941.

I have the honour to be,

Your Honour's most obedient servant,

H. C. NIXON,

Minister in Charge,
Department of Game and Fisheries

Toronto, 1942.

#### THIRTY-FOURTH ANNUAL REPORT

OF THE

### Game and Fisheries Department of Ontario

TO: THE HONOURABLE H. C. NIXON,

Minister in charge,

Department of Game and Fisheries.

SIR: --

I have the honour to submit to you herewith the Thirty-fourth Annual Report of the Department of Game and Fisheries, outlining a summary of the activities of various Departmental services, and including statistical tables for the fiscal year ended March 31st, 1941, as well as tables of comparison.

#### INTRODUCTORY

The Province of Ontario has been endowed with a wealth of natural charm, with which have been incorporated many opportunities for the enjoyment of outdoor recreational pleasures. Its extensive water areas, virgin forests and wild lands all combine to make this Province a tremendous reservoir for the development of wild life. Notwithstanding the many physical changes that have taken place in past years it has been possible to maintain this outstanding characteristic in large measure, particularly in the northern hinterland.

In the development of the Province its vacation and recreational possibilities have not been neglected and the protection and propagation of fish and game have been maintained and extended so as to keep pace with material development. The excellent fishing and hunting which are available within our borders are undoubtedly important factors in promoting tourist trade, and the economic value of this seasonal industry is too obvious to require any comment except that it provides a living for thousands of our citizens, and in the present emergency plays a prominent part in establishing foreign exchange for the purchase of essential war materials.

This Department co-operated with the Provincial Travel and Publicity Bureau in providing an interesting and outstanding exhibit at the Sport Shows conducted in Chicago and Detroit during the months of February and March, 1941, with the object of endeavouring to attract increased numbers of American tourists to the Province. In each case considerable interest was displayed in the exhibit and the available literature was eagerly taken up. A special attraction at this exhibit was the regular showing of coloured moving pictures, replete with action, and demonstrating that the claim that Ontario is a sportsman's paradise was no idle boast. The friendly spirit of the people was very evident and, from the standpoint of improving the agreeable relations between two good neighbours, apart altogether from the economic value, the exhibit was quite successful.

The general protective programme has recognized the various phases affecting supply and demand and made provision to maintain a proper balance. Large areas of suitable land have been set aside as sanctuaries for game, ensuring reproduction and perpetuation. Small game has been intensively propagated and released to re-stock forest and field. Hundreds of millions of fish are artificially raised in the various

Departmental hatcheries and annually deposited in provincial waters, and in the ensuing pages it is indicated to what extent this programme was carried out during the period under review.

Legislation is effective only to the extent that the provisions thereof have the complete support of those for whose benefit it is provided, and the success of the conservation programme instituted by the Department in conjunction with legislation depends upon the full and active co-operation of all who are interested in our wild life resources. The general public can and does assist the Department in many ways, but chiefly by preventing waste and by a careful compliance with the provisions of the Game and Fisheries Act and the various regulations provided under this and affiliated legislation.

#### FINANCIAL

Since the change in the period of the fiscal year inaugurated by the present Administration in 1935, the total annual revenue collected from various sources by the Department of Game and Fisheries has, previous to the year under review, shown an increase each succeeding year, and it is only natural to expect that such a notable showing would eventually be terminated by a decreased collection in some particular fiscal year. Such decrease it is necessary to record for the year 1940-41, as is shown in the subjoined statistical table of revenues and expenditures for the past six years:—

	Revenue	Expenditure (Ordinary & Capital)	Surplus
1935-36	\$ 683,938.72	\$451,041.91	\$232,896.81
1936-37	782,217.63	474,128.95	318,088.68
1937-38	866,558.19	563,938.33	302,619.86
1938-39	914,475.24	575,437.79	339,037.45
1939-40	1,015,350.82	568,198.55	447,152.27
1940-41	984,800.69	512,834.70	471,965.99

It will be observed that as compared with the revenue derived in 1939-40 that collected during the year covered by this report shows a reduction in the amount of \$30,550.13. This decrease is not of sufficient proportions to cause concern and may be attributed principally to reduced collections from fur royalties in the neighborhood of \$15,000.00, and a reduction in fees secured from the sale of resident hunting licenses, slightly in excess of \$12,000.00, and from the sale of non-resident angling licenses, approximately \$7,000.00.

The following table of revenue collected shows the various sources from which it was derived and the respective amounts attributable thereto:—

#### REVENUE FOR THE FISCAL YEAR ENDED MARCH 31st, 1941.

# ORDINARY— MAIN OFFICE— GAME—

Licenses-

Trapping\$	35,795.50
Non-resident hunting	84,265.00
Deer	77,469.40
Moose	2.948.00

REVE	NUE FOR THE FISCAL YEAR ENDED MARCH	31st, 1941—C	ontinued
Lice	nses—Continued		
	Gun	86,527.85	
	Dog	5,746.10	
	Fur Dealers	27,323.00	
	Fur Farmers	8,637.50	
	Tanners	160.00	
	Cold Storage	178.00	
		329,050.35	
Roya	ılty		
	-		430,649.53
FISHERI	ES		
Lice	nses—		
	Fishing (Commercial)		
	Angling	384,675.00	
	3	3 470,589.00	
Sales	s-Spawn taking	226.95	
	ılty	12,066.22	
vi.	· -		482,882.17
GENERA	· <del></del>		
	nses—		
	Tourist Camps	. ,	
	Guides	7,456.00	
		\$ 14,801.00	
	Fines	25,416.28	
	Costs Collected (Enforcement of Game Act)	786.78	
(\$ ()	Sales—Confiscated articles, etc	24,309.12	
	Rent	3,301.75	
	Commission retained by Province on sale of lic.	2,170.30	
	Miscellaneous	483.76	
		\$	71,268.99
	Net Ordinary Revenue	\$	984,800.69

One fact that is worthy of comment is the large proportion of the total amount of \$984,800.69 which was derived from the sale of non-resident licenses, both angling and hunting. Some forty-seven and a half per cent of the entire total, or \$468,940.00 was collected in this way, and this must be considered to be a remarkable showing when studied in conjunction with the feeling of uncertainty and dismay which generally prevailed in the summer of 1940 following the disastrous collapse of the French armies then engaged as our allies in the tremendous struggle against the Axis powers. The satisfactory conditions which are prevalent in the wildlife natural resources of Ontario's forests, streams and lakes, and which are an attraction and recreational benefit not only to our own sportsmen but also to non-resident anglers and hunters, are reflected to a remarkable degree in this excellent result.

Reference has already been made to the reduced departmental revenue, as compared with that of the previous year when for the first time since the establishment of the Department of Game and Fisheries it exceeded the one million dollar total, and to the fact that the decrease was not one to cause undue concern. In explanation it will be noted that the figure for 1940-41 was exceeded only once during the past six years, viz—in the preceding fiscal year, 1939-40, and the collection of revenue in that

year showed an extremely remarkable increase of more than \$100,000.00 over that of 1938-39.

As previously indicated the principal reduction in revenue may be attributed to the lesser amount of fur royalties which were collected during the year, and the sale of fewer resident hunting licenses and non-resident angling licenses. To a large extent reduced fur royalties could be assigned to a smaller catch of beaver, on the pelts of which animals the royalty is \$1.00, collected when they are exported from the Province or tanned. In 1939-40 two limited periods of open season were provided for the taking of beaver, and in which two periods 33,530 pelts were taken. This total represented some 12,000 pelts more than were taken in the open season which prevailed in 1940-41 in which year only one period for the taking of beaver was provided. addition to this there was also a considerable reduction in the number of red fox which were taken in the 1940-41 season as compared with the season of 1939-40. Reduced revenue from the sale of resident hunting licenses may reasonably be assigned to the intensification of industry in connection with the manufacture of materials necessary for the effective conduct of the war in which our nation is now engaged which undoubtedly resulted in many who formerly participated in the sport which our hunting provides finding themselves without sufficient leisure for the pursuit of game to warrant their purchase of hunting licenses. The general feeling of uncertainty regarding the unfavourable war situation which prevailed throughout the summer of 1940 was no doubt responsible for the sale of fewer non-resident angling licenses, but the small total of this decrease warrants the statement that this reduction was due to the reason just stated rather than to any serious diminution in the quality or quantity of the diversified fishing privileges which are available in the waters of this Province.

However, the complete financial statement of revenue and expenditure is probably one of the best ever recorded by the Department. As compared with expenditures, both ordinary and capital, the revenue showed a surplus of \$471,965.99 during the period under review. This favourable showing was achieved by the exercise of rigid control of expenditures, and the elimination of all unnecessary expense. Capital expenditures were reduced to practically an absolute minimum, only a total sum of \$3,823.70 being spent under this classification. The largest capital expenditure amounted to \$1,846.18, for the installation of a concrete whitefish and herring battery at the Provincial Fish Hatchery at Glenora, in Prince Edward County. For the erection of a cabin at the Martin River Camp, in the Temagami area, for the use of the local Game and Fisheries enforcement officer, was spent the sum of \$541.58. The balance of \$1,435.94 was used to provide necessary alterations and improvements at a few of the fish hatcheries.

As has now been the case for many years the most important items of ordinary expenditure have resulted from the maintenance in the field of the officers whose services are retained to provide enforcement of the various provisions of the Game and Fisheries Act and Regulations, and the operation of the Fish Hatcheries and distribution of fish under the Fish Culture Branch. Enforcement cost \$210,536.88, while \$184,121.76 was expended in connection with the work of the Fish Culture Branch. Other items of expenditure include, \$13,963.71 for the purchase and distribution of pheasants, particularly in the Townships which have been designated as Regulated Game Preserve Areas, and in other areas in which suitable conditions prevail; \$16,477.43 for the payment of wolf bounties and sundry expenditures incidental thereto, and of which amount the sum of \$16,410.00 was actually paid as bounty; as well as \$6,400.00 for various grants, details of which are as follows:—\$1,000.00 for fisheries research work, particularly in the waters of Algonquin Park, under the supervision of Professor W. J. K. Harkness of the University of Toronto staff, \$2,500.00 to the Ontario Fur

Farmers' Association to assist them in their endeavours to develop the fur farming industry throughout the Province, \$1,000.00 to the Ontario Federation of Anglers to enable this organization to continue its campaign to secure better compliance with and observance of provisions of the Fisheries Regulations, and \$1,900.00 to Messrs. Jack Miner and Thomas N. Jones and Miss Edith L. Marsh to encourage their efforts along the lines of providing a measure of protection for birds on sanctuaries maintained by them on their respective properties in the Counties of Essex, Elgin and Grey.

#### GAME

The following table shows the comparative details of the various resident and non-resident hunting licenses which were issued for use during the open seasons which were provided during the year, together with information of a similar character for the three preceding years. Details of the reduced numbers which were sold, to which previous reference has been made will be noted, though some increase will be observed in the following instances, viz:—resident "moose", non-resident "general" and non-resident "bear (spring season)".

	1937-38	1938-39	1939-40	1940-41
Resident Deer	18,672	21,762	21,416	20,219
Resident Deer (Camp)	283	307	323	310
Resident Deer (Farmers)	6,503	7,719	7,722	6,486
Resident Moose	580	471	497	536
Resident Gun	90,756	114,580	113,992	97,218
Non-Resident Deer	1,036	1,329	1,492	1,291
Non-Resident "General"	1,043	569	593	755
Non-Resident Small Game	1,634	1,618	1,567	1,377
Non-Resident Bear (Spring Season)	30	49	108	161

The conservation of wild life is not something peculiar to that particular resource. It is common to every phase of our existence. It is the sensible practice of making the best use of every resource with which we have been so lavishly endowed by Nature, and by ensuring that these resources will not be wilfully dissipated as a result of our own shortsightedness. Wild life is a public heritage, and the laws and regulations which are now in effect to govern hunting within the Province embody the results of years of practical experience and research. They afford protection during the reproductive periods, provide for limited open seasons and restrict the seasonal take to correspond with the available resources. These laws are quite comprehensive because the resources, territory and climatic conditions are extremely varied, yet a moment of reflection will readily supply the reasons for every restriction.

The following is a summary of conditions which apply to the various species of game animals and birds which are prevalent in Ontario, and which summary is compiled from reports submitted by Game and Fisheries Overseers throughout the Province:—

**DEER:**—This species is quite plentiful throughout the northern portion of the Province and in the more northerly districts of Southern Ontario, and in these sections continues to provide excellent sport for interested hunters during the fall open season. The protection of an entire close season which has been provided for the past several years in certain southwestern and eastern counties has resulted in quite a noticeable

increase in the herds in many of these counties and more particularly in Grey and Bruce. The regulations which at present exist for the protection of deer and a continuation of the existing co-operation on the part of the general public will undoubtedly ensure perpetuation and possible improvement of the deer herds which now inhabit Ontario. During the year under review provision was made to have the general open season in the most southerly division extend for a period of nineteen days, as has been the case in previous years, but commencing on the first Monday in November. The hunting of deer was also permitted during the period from November 11th to November 16th, inclusive, in the Townships of Amabel, Albemarle, Eastnor, Lindsay and St. Edmund in the Bruce Peninsula, though the use of dogs for such hunting during this open season in these five Townships was not permitted. An open season for deer was provided in that portion of the County of Carleton lying west of the Rideau River conforming with the general season in Southern Ontario and extending from November 4th to 19th, inclusive. And, further, a Regulation was provided to prohibit any hunting of deer during 1940 in the Counties of Durham, Northumberland and Prince Edward.

MOOSE:—Conditions are such with reference to moose that the hunting of this species is confined to that portion of the Province lying north and west of the French and Mattawa Rivers and Lake Nipissing. Moose is not too plentiful in any section of this northern portion of the Province, though some improvement is reported from various Districts, particularly in the two areas in the northwest and east in which all hunting of moose was prohibited during the preceding two years and which improvement resulted in the provision of an open season in these two areas, extending from October 15th to November 25th, inclusive, and which action was taken in accordance with a popular demand therefor. There are but few areas in Southern Ontario in which moose are to be found, and even in these sections their numbers are extremely limited and scarce. Some increase, though very slight, is reported from North Renfrew, North Addington and North Muskoka.

CARIBOU:—Caribou are extremely scarce throughout the Province. None are to be noticed in the southern portion of the Province, and the same condition applies in the Districts of Nipissing, Temiskaming and Manitoulin. In the remaining territory their numbers are negligible, and little or no improvement was reported from any place. They are protected by a close season throughout the entire year, and the present condition of this particular species demands a continuation of this complete protection for its perpetuation even in limited proportions.

ELK:—The only elk in Ontario are those which were originally imported from Western Canada several years ago in co-operation with the National Parks Branch of the Federal Department of Mines and Resources, and the subsequent natural increase. Some few specimens are located in Bruce County, on Beausoleil Island in Georgian Bay off the shore of Simcoe County, and on the Peterborough and Petawawa Crown Game Preserves in the Counties of Peterborough and Renfrew respectively, though reports from these areas indicate but little improvement. Additional numbers were placed on Crown Game Preserves in the Districts of Nipissing, Temiskaming, Sudbury, Algoma and Thunder Bay, and in the majority of these instances some increase in their numbers has been noticed. During 1940 a shipment of eight of these animals was completed from the Petawawa Crown Game Preserve to the Nipissing Crown Game Preserve. The hunting of elk is prohibited throughout the entire year.

BUFFALO:—With the co-operation of the Department of Mines and Resources of Canada, (National Parks Branch) a car-load of buffalo, consisting of sixteen heifers and four bulls, was imported from Alberta and these animals were placed on the Burwash Crown Game Preserve, in the District of Sudbury. While reproduction has

been small there has been but little mortality among the animals which were originally introduced.

BEAR:—These animals are reported to be quite plentiful throughout the various Northern Ontario Districts, and in the Districts of Parry Sound, Muskoka and Haliburton and in the County of Renfrew. They may be hunted or trapped under the authority of the proper licenses and there is no doubt many enjoy the pleasure which the hunting of these animals provides. During the spring bear season of 1940, that is from April 1st to June 15th, the Department issued one hundred and sixty-one (161) non-resident hunting licenses, and it may be of interest to say that since the inauguration of this particular season, some four years ago, there has been an increasing interest displayed by non-resident hunters in the possibilities for recreation and relaxation thus made available.

RABBITS:—Reviewing reports with reference to rabbits it would appear that with the exception of a very few counties the various species continue to be fairly plentiful in the southern areas. In general terms the prevailing species in the extreme southern and southwestern portions of the Province are cotton-tail rabbits and European hare, the latter commonly known as the jack-rabbit,—while the snowshoe rabbit, or varying hare, exists in the eastern counties and in the areas to the north. Conditions applicable to rabbits were quite favourable throughout the season, except in Northern Ontario, where these animals were reported to be not too plentiful though probably increasing in number. Rabbit hunting is a favourite sport of Ontario hunters during the late fall and winter months, and a large percentage avail themselves of the pleasure which is to be derived from this splendid type of healthy exercise. The restricted daily catch of cotton-tail rabbits which is now effective in several of the southwestern counties has probably assisted in some measure in the increase which has been reported from these areas.

PARTRIDGE:—The improvement which has been observed in more recent years continued during the period covered by this report, and considerable increase was reported from many sections principally in the case of ruffed grouse. The sharp-tailed grouse, or prairie chicken, is confined to the extreme northern and northwestern portions, though their numbers could not be described as plentiful. However, general conditions throughout were sufficiently satisfactory to warrant the declaration of a short open season. Two periods were included in this open season, viz:—October 1st to October 15th, inclusive, and November 4th to November 16th, inclusive. Limits of catch were five birds per day, and twenty-five birds in all during the two periods. This open season did not apply in the Counties of Essex and Kent nor in the Townships established as Regulated Game Preserve Areas. In these last mentioned Counties and Townships the open season for partridge coincided with the open season for pheasants.

PHEASANT:—Climatic conditions restrict the area in which pheasants can be successfully introduced with any certain hope of permanent establishment therein. While it is not native to the Province it has been possible through intensive re-stocking in areas providing favourable conditions to sufficiently develop the pheasant population in such areas to assure such a measure of successful hunting as to warrant a limited open season for the taking of this splendid game bird. In recent years the Department has proceeded with a scheme of Regulated Game Preserve Areas in which all hunting is controlled and where these birds are liberated, and which scheme in 1940 included some seventy-one Townships or parts of Townships situated in the Counties of Lambton, Middlesex, Elgin, Oxford, Norfolk, Brant, Haldimand, Welland, Lincoln, Wentworth, Wellington, Halton, Peel, York, Ontario and Prince Edward. Conditions favourable to the propagation of these birds also prevail in areas other than these Regulated Townships, particularly in the County of Essex, including Pelee

Island, and in the County of Kent, and in which Counties provision has also been made for the distribution of these birds. Details of this distribution which was made in 1940 are indicated by the following statistics:—adult pheasants and poults totalling 16,688 were distributed, 14,963 in the Regulated Townships and 1,725 for general restocking outside of these areas,—County of Brant (three Townships) 664 birds; County of Elgin (five Townships) 1,000 birds; County of Haldimand (ten Townships) 1,862 birds; County of Halton (four Townships) 1,315 birds; County of Lambton (one Township) 200 birds; County of Lincoln (eight Townships) 1,650 birds; County of Middlesex (two Townships) 425 birds; County of Norfolk (four Townships) 820 birds; County of Ontario (three Townships) 750 birds; County of Oxford (one Township) 200 birds; County of Peel (five Townships) 940 birds; County of Prince Edward (one Township) 120 birds; County of Welland (eight Townships) 1,685 birds; County of Wellington (one Township) 200 birds; County of Wentworth (eight Townships) 1,459 birds; and County of York (seven Townships) 1,673 birds. The record of the general re-stocking additional to the foregoing shows 1,000 birds liberated in the County of Essex, 400 of which were placed on Pelee Island, 600 birds in the County of Kent, 75 birds in the County of Huron and 50 birds in the County of Brant. The regulations governing the open season fixed October 31st and November 1st on Pelee Island, with a limit of five birds per day, or ten for the season, with the provision that three of the total take could be hen birds conditional upon the payment of \$1.00 each for such hens. In the Regulated Game Preserve Areas the open season was October 25th and 26th, and an additional day, November 1st, provided the Municipal authorities in any Township issued their special hunting licenses therefor. In fifty-two Townships the two-day season prevailed, while the three-day season was in effect in nineteen Townships. Limits of catch were three cock birds per day. The same three-day open season was provided for the County of Essex (excluding Pelee Island) and the County of Kent, as well as the limit of three cock birds per day.

HUNGARIAN PARTRIDGE:—The efforts of the Department to secure the establishment of this species in the Province have up to the present not been very successful, except in a few areas. The only localities in which they are found to any extent are in a few of the southwestern and extreme eastern counties, and even in these areas their numbers are not too plentiful. Improvement is reported only from the eastern counties. The open season in 1940, viz, October 25th and 26th and November 1st applied only in Essex (excluding Pelee Island) and Kent. Two birds per day constituted the limit of catch.

QUAIL:—Only in a few of the most extreme southwesterly counties are these birds to be found where they are not very numerous, though localized increases have been reported. The only section in which an open season was provided was in the County of Essex (excluding Pelee Island) and the County of Kent, on October 25th and 26th and November 1st. The bag limit during this open season was four birds per day.

DUCKS:—Reports from many sections, particularly in Southern Ontario, would seem to indicate some considerable improvement in the number and variety of ducks available during the open season, which generally resulted in a successful season for a majority of those sportsmen who participate in the hunting thus provided. Since 1935 the hunting regulations which are provided by the Federal authorities under the Migratory Birds Convention Act, have been made more restrictive and an active programme to provide refuges and improved nesting conditions in the far north has been carried on, all of which factors have contributed to the increase previously mentioned, and provided there is no natural set-back should continue to prove effective in maintaining and possibly improving the existing conditions as they apply to this variety of wild water-fowl.

GEESE:—This species does not play an important part in the general scheme of hunting in Ontario. Conditions remained pretty much the same as has been stated in Departmental annual reports for the past several years. Successful hunting of this variety of wild water-fowl is restricted, in Ontario, to the shores of James Bay in the far north and to the extreme southwestern Counties. In other sections they are seen only in flight during the fall and spring migration periods and provide very little sport in the way of hunting.

WOODCOCK:—While these birds, generally speaking, are not too plentiful, they continue to provide a measure of satisfactory sport for interested hunters in various sections of the Province, and more particularly in some of the Counties along the shore of Lake Erie and immediately to the north thereof as well as in the southeastern counties.

**SNIPE:**—These birds are not very plentiful in any portion of Ontario and are therefore not hunted very extensively. While general conditions are not favourable reports state there has been some improvement and resulting increased numbers in a few widely separated areas.

**PLOVER:**—There are but few sections in which these birds can be described as anything but scarce, and little improvement has been observed. Plover are protected throughout the year by regulations provided under the Migratory Birds Convention Act.

#### FUR-BEARING ANIMALS

Conditions as they apply to fur-bearing animals throughout the Province are summarized in the following references from reports submitted to the Department by members of the Field Service Staff:—

BEAVER:—This very desirable species of fur-bearer is quite prevalent in most sections of the Province except some of the counties in the extreme southwestern peninsula and in eastern Ontario. In Northern Ontario and in some of the northern districts in Southern Ontario reports would appear to indicate that conditions were such as to warrant the provision of a limited open season and restricted catch. The regulations governing this open season specified that it would be effective from December 1st to December 21st, 1940, both days inclusive in the territory lying north and west of the French and Mattawa Rivers and Lake Nipissing, including the District of Manitoulin, as well as in the Districts of Parry Sound and Muskoka. Licensed trappers were permitted to take not more than ten pelts during this open season and it was further specified that trappers were to dispose of the pelts taken on or before December 31st. According to returns submitted to the Department some 21,605 beaver pelts were taken during this open season, and it has been estimated that the value of these pelts to the various trappers concerned was in the neighborhood of half a million dollars.

**FISHER:**—These animals are extremely scarce throughout the entire Province, and reports indicate that they are practically extinct in the southern portion. The catch is diminishing quite rapidly.

**FOX:**—Generally speaking it would appear that this species was not too plentiful during the year under review, though reports show some increase in different sections. There was quite a reduced catch in comparison with previous years.

LYNX:—This species has become non-existent in Southern Ontario, and it is extremely scarce in the north. No improvement is reported from any section, and the annual take continues to show a decrease.

MARTEN:—As in the case of fisher and lynx, marten are extremely scarce, and no improvement has been reported. The catch in the case of this species also shows a decided reduction.

MINK:—While these animals are reported to be not too plentiful there are indications that their numbers are increasing in many areas, though probably not to any material extent. The slight increase in the number taken during the open season may be attributed to improved conditions to which previous reference has been made.

MUSKRAT:—It is again possible to report an increase in the catch of this species, some fifty thousand more pelts being taken than was the case in the previous year, though conditions which applied to muskrat remained practically the same. The open season is provided by Regulation and this arrangement is perhaps the most satisfactory in that it is possible to take advantage of propitious weather conditions, and thus confine the season to a limited period in which there would be little or no interference with natural propagation. These pelts do not bring an exceptional price on the market, but by reason of the fact they can be caught in large numbers the returns to the trapper are of substantial worth. It has been estimated that the 740,000 pelts taken in 1940 were worth approximately \$1,500,000.00, or more than half the value of the total fur catch of the year.

OTTER:—Some improvement is reported from sections in the northern portion of the Province, and, while otter are not too plentiful, the catch for the year covered by this report was better than the average for the past ten years, and was exceeded in that time only by the catch in the preceding year, 1939-40.

RACCOON:—There was a decided decrease in the take of raccoon as compared with that of the previous year. It is found only in the more southerly portions of the Province, due to the extreme cold weather which prevails during the winter months in the north. Conditions with regard to this species remain unchanged.

SKUNK:—Continues to be very plentiful, but their obnoxious methods of defence, coupled with a low market value, discourage any general efforts by trappers for the taking of this species.

WEASEL:—There was a decided decrease in the number of weasel which were trapped during 1940, as compared with the number taken in the previous year. This cannot be attributed to any substantial decrease in the numbers available, and is probably due to the diminished demand for these pelts, and the resulting poor prices derived from the sale thereof.

The following comparative table shows the numbers of pelts of the various species of fur-bearing animals which were exported from and dressed within the Province during the year under review in addition to the three years immediately preceding:—

		1		
0	1937-38	1938-39	1939-40	1940-41
Bear	496	363	295	274
Beaver	235	1,366	33,530	21,605
Fisher	1,463	1,467	1,382	858
Fox (Cross)	2,426	2,164	981	722
Fox (red)	24,912	22,366	19,925	15,059
Fox (silver or black)	201	131	- 101	67
Fox (white)	47	142	36	91
Lynx	1,284	785	514	383
Marten	1,709	2,074	1,790	1,439
Mink	22,766	25,111	36,518	38,976
Muskrat	343,972	508,893	689,706	739,224
Otter	3,737	3,764	4,101	3,931
Raccoon	13,194	9,493	14,493	11,973
Skunk	61,576	89,100	74,176	72,005
Weasel	79,853	93,488	95,832	53,719
Wolverine	5	3	2	2

From reports received from various licensed fur dealers it has been possible for the Department to estimate that trappers received a total of \$2,677,211.26 from the catch of fur during 1940-41, an increase of some fourteen per cent over the previous year, and which increase may be assigned to the general improvement in muskrats, both take and market value.

The product of licensed fur farms, comprised wholly of fox and mink, disposed of during the year by such fur farm operators had an estimated value of \$1,246,847.66, an increase of almost \$200,000 over the previous year, making the value of the total fur production of the Province in 1940-41 the sum of \$3,924,058.92.

#### FUR FARMING

The propagation of fur bearing animals in captivity continues to be an industry of considerable economic importance, particularly during war time, as a large percentage of the fur production is exported thereby establishing valuable foreign exchange. Due to the prevailing uncertainty as regards future markets and the rising cost of feed some recession was recorded, though 1841 fur farms were licensed during the calendar year of 1940, the period covered by such licenses, a reduction of only four per cent.

The subjoined comparative table shows the total breeding stock retained on these licensed premises as at the first day of January in each of the four years therein enumerated, and from which it will be noted that these operations are restricted principally to silver fox and mink:—

(4.)	1938	1939	1940	1941
Beaver	25	2	4	13
Fisher	16	19	27	26
Fox (cross)	235	197	168	134
Fox (red)	140	120	96	65
Fox (silver or black)	24,848	22,923	18,327	16,034
Fox (blue)	0	98	209	397
Lynx	2	2	2	2
Mink	21,982	30,378	31,989	34,277
Muskrat	302	267	235	179
Raccoon	351	284	243	139
Skunk	9	6	10	7
Marten	11	15	19	16
Otter	0	0	2	2

This breeding stock retained on licensed fur farms as at January 1st, 1941, was estimated to have a replacement value of \$2,094,341.00.

Departmental compilation of fur records shows that licensed fur farmers during the year 1940-41 disposed of the following pelts from stock raised on their premises, viz:—

62,281 mink, 59,790 of which were exported and the remaining 2,491 dressed in the Province.

34,282 silver and black fox, of which 25,001 were exported and the remaining 9.281 dressed in the Province.

285 blue fox, of which 282 were exported, and the remaining 3 dressed in the Province.

202 cross fox, of which 111 were exported and the remaining 91 dressed in the Province.

#### CROWN GAME PRESERVES

Practical protection has been afforded wild life through the setting aside of extensive areas of land as sanctuary for game. At the present time the various Game Preserves scattered throughout the Province have a combined area of approximately thirteen thousand five hundred square miles. Much of this land is still in the Crown, particularly in Northern Ontario, but many of the smaller areas have been set aside with the consent of the land-owners. Much of the land is wild land, particularly suited for the development of large and small game, while in the southern section of the Province they are well adapted to the protection and propagation of upland game, including birds.

During the period under review only one new Game Preserve was established. This was the Kapisko Beaver Sanctuary, situated in the District of Patricia. The primary function of this Sanctuary is to enable the Department, with the co-operation of the Hudson's Bay Company, to restock the area with beaver, control the annual take, and provide a restricted trapping ground for the benefit of Indians resident in the Province. The trapping of fur-bearing animals other than beaver will be permitted to resident Indians.

The following changes and renewals were made in the case of existing Game Preserves:

The boundaries of the Nipissing Crown Game Preserve were altered to conform with changes in the location of Provincial Highway No. 11 which forms the western boundary of this Game Preserve.

The boundaries of the Waterloo Crown Game Preserve, situated in the County of Waterloo, were revised and some additional land included in the area.

The Wilder Lake Crown Game Preserve, located in the Township of Egremont, County of Grey, and the Woodlands Crown Game Preserve, located in the Township of Trafalgar, County of Halton, were renewed for a further period of five years, to November, 1945.

A further measure of protection and control is afforded through the scheme of Regulated Townships. The regulations provide that those who hunt in these regulated areas must have special hunting licenses issued by the respective Municipal Councils, with the approval of the Department, in addition to the regular hunting licenses required under the provisions of the Game and Fisheries Act, and which has the effect of restricting the number of hunters who may operate in any particular area and thus avoid congestion. During the year the following Townships were incorporated in the scheme, viz: Township of Whitchurch in York County, that part of the Township of Toronto lying north of the Queen Elizabeth Highway in Peel County, Townships of Flamboro West and Glanford in Wentworth County, Township of Dunwich in Elgin County, and the Township of Plympton in Lambton County. The total number of Townships included in the scheme following these additions was seventy-one.

#### WOLF BOUNTIES

The following is a comparative table of condensed wolf bounty payments and statistics for the current fiscal year and the preceding four years:—

Period	Timber	Brush	Pups	Total	Bounty & Expenses
For year ending Mar. 31, 1937	1,090	1,197	31	2,318	\$33,360.63
For year ending Mar. 31, 1938	1,022	837	30	1,889	27,474.24
For year ending Mar. 31, 1939	1,031	723	41	1,795	25,357.00
For year ending Mar. 31, 1940	1,107	614	22	1,743	25,058.12
For year ending Mar. 31, 1941	738	400	8	1,146	16,477.43

Since 1933 the rate of bounty has been \$15.00 on adult wolves and \$5.00 on wolves under the age of three months. An amendment to the Wolf Bounty Act, under which these payments are made, and which was enacted during the 1941 Session of the Legislature, provided that the bounty to be paid on wolves killed after March 1st, 1941, shall be \$25.00 on adults and \$5.00 on wolves under the age of three months.

Reference to the previous table indicates a progressive reduction in the number of wolves destroyed each year and on which bounty was paid, and it is quite possible that the increased bounty provided might stimulate operations which have as their object the destruction of these predators.

During the year 1940-41 nine hundred claims for bounty were submitted for consideration. These claims were in respect to a total of 1,162 pelts, though claims for bounty on some sixteen of these pelts, which were not wolves, were refused.

Bounty was paid to 752 persons who collected a total of \$17,550.00, of which the sum of \$1,140.00 was paid by County Treasurers on wolves killed within such Counties, the bounty in such cases being paid by the Counties, forty per cent thereof being rebated by the Department.

From information supplied on the applications for bounty it would appear that 500 of these animals were taken by wire snares, 293 were shot, 279 were trapped, and the balance by methods not indicated on the claims. It has been ascertained that Indians were responsible for the killing of 341 of these wolves, 319 were killed by farmers, 199 by fur trappers, and the balance by park rangers, guides, hunters, etc.

The following table sets forth in detail the sources of origin and variety of the wolf pelts for which application for bounty was made:—

ANALYSIS OF APPLICATIONS FOR WOLF BOUNTY

County or District	Number of Timber	Number of Brush	Number of Pups	Total Pelts
Algoma	70	38	4	112
Bruce	12	4		16
Cochrane	18			18
Frontenac	2	6		8
Haliburton	10			10
Hastings	6	2		8
Huron	1	1		2
Frey		5		5
Kenora	167	72	4	243
Kent	101	1		1
ambton		2		2
anark	10	_	• • •	10
eeds		1	• • •	10
ennox & Addington		_	• • •	7
	2	5	• • • •	
Ianitoulin	15	67	• • • •	82
Iiddlesex		4	***	4
Iuskoka	19	4	; • •	23
lipissing	66	12	• • • • ,	78
lorfolk	• • •	7	• • • •	7
Torthumberland		1		1
Ontario	2	7	• • •	9
Parry Sound	41	1		42
Patricia	30	6		36
eel	1			1
Peterboro	2			2
Rainy River	73	60		133
tenfrew	26	2		28
udbury	62	52		114
imcoe	11	3		14
emiskaming	6			6
hunder Bay	88	40	:	128
ictoria	5	5		10
Vellington		1		1
Totals	745	409	8	1,162

Administration of the Wolf Bounty Act during the year under review resulted in a total expenditure of \$16,447.43, of which the sum of \$16,410.00 was actually paid as bounty. Details of this expenditure are as follows:—

Brush Wolves	51	@ \$ 6.00\$ 306.00	
	334	@ \$15.00 5,010.00	
	15	@ \$25.00	
	400 .		\$ 5,691.00
Timber Wolves	69	@ \$ 6.00\$ 414.00	
	4	@ \$10.00	
	640	@ \$15.00 9,600.00	
		@ \$25.00625.00	
	738.		\$10,679.00
Pups	. 8	@ \$ 5.00\$ 40.00	
-			
	8.		\$ 40.00
TOTAL 1	,146.		\$16,410.00
Expenses			67.43
Total Cost			\$16,477.43

#### GENERAL

#### TOURIST OUTFITTERS:-

The licensing of hunting and fishing camps catering to the tourist trade in Northern Ontario (north and west of the line of the Canadian National Railway running between Parry Sound and Pembroke) was continued. Notwithstanding some uncertainty as to the tourist trade during war time, twenty-five more camps were licensed than in the previous year. Of the 667 camps operated under license, 615 were owned by residents of Ontario and 52 by non-residents. These camps were located as set forth in the following table:—

Algoma 95	•
Cochrane	ò
Kenora 157	1
Manitoulin 58	3
Nipissing 96	ò
Parry Sound 117	ľ
Patricia 2	
Rainy River 32	,
Renfrew 13	3
Sudbury 57	7
Temiskaming	Ł
Thunder Bay 30	)
Total 667	<u> </u>

#### THE BULLETIN:-

An enlightened public opinion is the best means of securing that co-operation without which no law can be a success. With this in mind the Department has continued to issue its bi-monthly Bulletin. This publication in addition to providing

information concerning Departmental activities, covers many phases of natural history and contains other articles of an educational nature Hitlicinculates to the press the Sportsmen's Organizations, and towar extensive white of private individuals teachers, etc., which list has been built up over a period of years through personal application. Over eighteen hundred copies are mailed each issue, but because of the nature of the mailing list it is safe to assume that its sphere of usefulness and influence as an educational medium is much greater than the circulation would imply.

#### GAME AND FISHERIES ACT:-

There were no amendments to the Game and Fisheries Act enacted during the session of the Legislative Assembly held in 1940, though special regulations were adopted by Order-in-Council in accordance with the provisions of subsection 1 of 

- (a) The period of the spring bear season was extended, and is in effect from April 1st to June 15th. 8 5.00.
- (b) Licenses to authorize the use of fire-arms for hunting purposes in the 0.0 0.4 Countles of Essex and Kent, restricted as to period, and are valid only from October 1st to January 31st, next following.
- 00(c) Prohibiting the use of snares for the taking of beaver at any time.
- (d) Prohibiting the use of snares for any purpose in the Counties of York and
  - (e) Providing a limit of catch on cotton-tail rabbits of six per day in the County of Lincoln. GENERAL
- (f) Prohibiting the purchase or sale of cotton-tail\_rabbits ring the County of The licensing of hunting and fishing camps catering to the tourist trade in Northern Ontario (north and west of the line of the Canadian National Railway running between Parry School and Pembrote) was continued. Notwithstanding some uncertainty as to the tourist Viant during war time, (wenty-five more camps were of Thow alt in high are "are on we see the brown to work at the second are the se Taw enforcement, and the Gaine and Fisheries Overseer whose for it is to see that the various provisions of the Game and Fisheries Act and regulations are observed belongs to that service whose ceaseless watching is a necessary part of our scheme of life. But for his persistent activity the wild life of the Province would soon suffer severely from illegal destruction. During the year under review there were between eighty and ninety officers permanently engaged in this work of patrol and supervision, and whose services were augmented by temporary officers employed for varying periods when their assistance was most desirable. In addition the Department also receives the close co-operation of Provincial Police constables in the work of enforcement. There are also hundreds of Deputy Game and Fisheries Wardens, private individuals who sufficiently interest themselves in this work of protection to secure the authority provided under such appointments to enable them to act individually or in conjunction with the regular Overseers in the matter of preventing offences against the Game and Fisheries Act.

Due to the extensive land and water areas of the Province each Overseer must of necessity cover, a large territory, but despite long patrols, these field officers are quite active in the discharge of their duties.

Thunder Eav

The Department would, of course, prefer to find law observance so complete that seizures and prosecutions would be unnecessary, but a minority of more/or less thoughtless, and, frequently, unscrupulous persons, whose activities are a menace to conservation make constant vigilance imperative (1813 villinom id sii sugai ot beunit

of 00.0And in this connection Departmental records show that during 1940-41 there were 1345 instances, in which offenders were apprehended by various members, of the enforcement services, and on which occasions equipment being used unlawfully, and fish, game and pelts, taken contrary to the regulations, were confiscated from those apprehended. In 1176 of these cases the seizures were made by Game and Fisheries Overseers, Deputy Game and Fisheries Wardens were responsible for the action in 67 cases, seizures were made in 26 cases by Provincial Police constables, while in the remaining 76, cases co-operative, action, by Overseers, Deputy Game, Wardens, and Provincial Police resulted in the seizures. is bard!

The following is a summary of the articles confiscated:—

Live animals WARH . RRUTTED . HERT . SHEIN Birds, game animals and meat .....in 166 cases Philipsess 104, might Department operatenoitinummental and rearing stations. Passana 601 mither facilities the contact of fish was carrieda in a satis-Angling equipment .....in 118 cases Apartasas seginienance, additional hatchery constrabin nons its of the completien of tesas iblant. From Rearing Staffenging sniggard ban agar new battery Canoes, rowboats and motor boats at the lerest and probate at the canoes robotic as a state of the control of t Outboard motors .....in 15 cases Automobiles and trucks .....in 19 cases .....in 57 cases The researd trinition of fish of various sizesists agreems that of any

provious year. Excellent progress was made in culturing and distributing small-Responsible for the apparent discrepancy in these total figures when compared with the actual number of seizures carried out would be the fact that individual seizure reports would in many cases apply to more than one article, i.e. some reports would cover traps and pelts, fire-arms and game, fishing tackle and fish, lights and spears, The following statistics indicate the progress bandisandamon radio astillaw asa

Included among the miscellaneous articles which were seized in the 45 cases reported are eleven haversacks and packsacks, ten suitcases and trunks, one hundred and seventeen duck decoys six axes, one battery and three ferrets.

Seized pelts included 1152 beaver, 39 fox (various species) 77 mink, 1817 muskrat, 22 otter, 38 raccoon, 18 skunk, 98 squirrel, 80 weasel, 1 fisher and 1 lynx, in addition to 95 hides of deer, moose, etc.

and Tolinstated The arms were as follows: 11784 .221 liftes, 36 aleavy calibre ritles, 560 single barrel shotguns, 72 double barrel shotguns, 201 repeating shotguns, 4 automatic shotguns, 4 pistols and revolvers, and 32" air guns. seined at at it betabom

Subsequent prosecutions were provided in 1,138 cases, the action being instituted zbył Camel and, PisheriesnOverseersnin zl. 082 sof theśś acases, sby-9Provincial ZPolice conastables in wall cases; by Deputy Game Wardens in 124 cases and by co-operative action stur 10 raises my hile ding one case the other ges were plaid by camprivate individual in a trespass case under Section 65% of the Game and Fisheries Act of In 11,078 cases convictions were registered, 47 charges were dismissed, and in 13 cases the charges were withdrawn by the officers responsible therefor.

the Steelhead trout Upon reference to the statement of revenue which appears earlier in this report dtrivillabe observed that fines amounting to \$25,416.28 were collected during the fiscale year rending March 31st, 51941; as our result of these; prosecutions, and of this amount \$11,990.00 was paid by some eleven persons apprehended with unlawful beaver

pelts in their possession. The fines in these specific cases varied from \$100.00 to \$3,630.00 according to the number of pelts involved in each violation. Not only were these fines assessed but the beaver pelts found in their possession, and totalling 487, were also confiscated and included in the sales of furs conducted by the Department, the proceeds of which sales are also public funds. Beaver pelts included in the Departmental sale conducted in the month of October, 1940, averaged approximately \$20.00 per pelt, so that in addition to their fines these offenders also forfeited to the Crown some \$9,740.00 derived from the sale of their pelts. Verily, the way of the transgressor is hard!

#### THE FISH CULTURE BRANCH

During the year the Department operated twenty-seven hatcheries and rearing stations. By means of these facilities the culture of fish was carried out in a satisfactory and effective manner.

Apart from maintenance, additional hatchery construction consisted of the completion of the Hill Lake Trout Rearing Station and the construction of a new battery for whitefish, herring and pickerel at the Glenora hatchery.

#### THE CULTURE AND DISTRIBUTION OF FISH

The total distribution of fish of various sizes and ages exceeded that of any previous year. Excellent progress was made in culturing and distributing small-mouthed black bass, large-mouthed black bass, maskinonge, pickerel, speckled trout, herring and whitefish.

#### Speckled Trout:

The following statistics indicate the progress being made in the culture and distribution of yearling and older stages of this valuable native game fish.

1936	 563,351
1937	 1,183,223
1938	 2,087,990
1939	 2,982,874
1940	 3,285,264

The production of yearling speckled trout in 1940 was 10 per cent higher than that of the previous year. In addition, 611,000 fingerlings which could not be accommodated in the hatcheries or ponds were distributed.

#### Brown Trout:

In excess of one-quarter million yearlings and approximately 182,000 fingerlings were distributed. Favourable reports of successful angling in the larger, lower reaches of certain southern Ontario streams, where brown trout have been introduced, are indicative of the success being achieved with this species.

#### Rainbow Trout:

#### (a) Steelhead trout—

The small increase in the number of yearlings distributed was compensated by the fingerling distribution, which was more than double that of the previous year. Distribution was made in water areas in which this species has become established.

#### (b) Kamloops trout-

10 01

The Kamloops trout is the common trout of the interior of British Columbia, occurring throughout the Fraser river drainage above Hell's Gate canyon and throughout most of the basin of the Columbia river in British Columbia. Unlike its close relative, the rainbow trout, it does not descend to the sea. Considerable differences exist in the characteristics of the species from different habitats, as to colouration, size, markings, etc., and even in large lakes confusing differences occur among individuals of the same species.

Generally speaking, they mature and spawn in their fourth year, although under certain conditions they might not spawn until their fifth year. Spawning takes place in creeks from April to June. It is stated that some of them spawn on the beaches of lakes at the mouths of streams tributary to the lakes. In some cases, Kamloops trout spend their whole lives in streams.

Only a limited amount of authentic information is available on the feeding habits of Kamloops trout. It is reasonable to expect that insects form the bulk of the food of specimens under sixteen inches at all seasons, but the staple food of the larger specimens is probably fish. The kokanee, a diminutive salmon, occurs in very large numbers in most lakes where the Kamloops trout reaches any considerable size, and is preyed upon by the latter.

The Kamloops trout is an excellent game fish, and is taken on the fly and by trolling. When caught it makes a terrific fight for freedom, combining a series of mad rushes and violent leaps with violent shaking of the head. It fights like the steelhead trout and requires considerable skill to land. The best fly fishing is obtained in streams and small lakes and at the mouths of streams flowing into larger rivers and lakes. The usual weight of the fish taken is from three to four pounds, although they grow to a much larger size; there are records up to thirty-five pounds.

Small consignments of eyed Kamloops trout eggs were imported from Kamloops, B.C., each summer from 1934 to 1937, inclusive. The largest losses were experienced immediately after arrival, particularly in hatchery waters in which a rapid upward surge in temperature occurred. The original importation to the Pembroke Trout Rearing Station was experimental but it is evident from later observations that Kamloops trout eggs hatch normally and without serious loss in spring water of approximately constant temperature, for example, at the Sault Ste. Marie and Chatsworth Trout Rearing Stations.

Normandale ponds were used for rearing parent fish, since it was expected that the location and climatic conditions would be congenial for the species. In 1938 the Kamloops breeders at Normandale spawned for the first time, and limited numbers of eggs were collected at that time and during subsequent spawning seasons. Special mention is made of this fact since it was an accomplishment not previously recorded in eastern North America. It was reported on good authority that this experiment was made in a pond in the east prior to 1938 but was not successful.

Previous annual reports contain information on the distribution of Kamloops trout in Ontario. Successful angling has been reported from Echo lake, in the district of Muskoka, and Bloom lake, in the district of Nipissing.

On account of its excellent game qualities and the fact that it becomes established in an environment similar to that inhabited by our eastern or native brook trout, and since, unlike its close relative the rainbow, it is non-migratory, controlled distribution in Ontario was recommended. Twenty-six thousand five hundred yearlings

were distributed this year. The previous distribution of yearlings of this species The Kamloops trout is the common trout of the interior of Britis| 6891 at law

occurring throughout the Fraser river drainage above Hell's Gate canyon and throughout most of the basin of the Columbia river in British Columbia. Unlikituar, aska seans There was an increase of A5 (per cent in) the distribution of lake trout fry and andecrease, of 26.6 per cent in the distributing and against sense in the characterist; again and again and again the distribution of the contracterist; and again and again the contracterist and again and again again and again a size, markings, etc. and even in large lakes confus ng differences occur emong individuals of the same species.

An increase of 23.5 per cent in the distribution of whitefish fry as compared with that not the previous year was achieved. This, commendable increase, was due to the splendid cooperative efforts of our hatchery officers, spawntaking crews, and commercial fishermen. ment to seros and betata at it in creeks from April to June Herring: of lance at the moulds of therese tringary to the land. In some case, trout spend their whole lives in strenge

The distribution of herring fry was 27 per cent more than the previous year, Only a limited arount of bulbentic information is .griwork eldatiberty.creditable showing.

The standard of the standard o The percentage increase in the number of pickerel fry distributed was approx imately the same as that recorded during the previous year, namely, 20.3 per cent.

Following the customary procedure, 2,000,000 eyed eggs were handled by the Sparrow Lake hatchery, and the fry were distributed over suitable natural spawning grounds in Sparrow lake. trolling. When caught it makes a terrilic fight for are-dom.

Small-Mouthed Black Bass:

ti be Exceptionally good progress was made in the culture of small-mouthed black bass. The percentage increased distribution of fry and fingerlings was 813 and 98.5 per cent, respectively. The percentage increased distribution of fry and fingerlings was 813 and 98.5 per cent, respectively. grow to a much larger size; there are records up to thirty-five bounds.

rushes and violent jeaps with violent shaling of the load.

Large-Mouthed Black Bass:

regool Two hundred and thirty thousand fry and 5,500 tingerlings were successfully reared and distributed from two small ponds at Mount Pleasant, a very commendable reared and distribution of the simulation of the simulat surge in temperature occurred. The original importation to the Pembroke Rearing Station was experimental but it is evident from later observation: dorently wolley The number of perchi eggs available in the vicinity of Kingsville hatchery, lake Erie "is subject to wide luctuation leach year " This production was much lower in 1940 than in the two years immediately preceding, but higher than in 1937. I have

Just Considering the scommercial value of the perchanter collection of spawn in the the location and climatic conditions would be transcount armoras along the location and climatic conditions would be transcount armoral armora Kamloops breeders at Normandale spawned for the first time, and limited numbers of eggs were collected at that time and during subsequent spawning season; Special ben'to The edistribution of maskinonge fry was 12.3 per cent less than that of the preceding year, but this was greatly offset by an increase of 79.5 per cent in the was made in a pond in the sist prior to 1938 let was not seguilregain to notudintaib

For the second time in the history of the Department, maskinging fingerlings of sizable proportions were reared by the pond method, namely, 1,300 in 1939, and 2,333 in 1940. This work was outlined in detail in the previous annual report.

On account of its excellen: RATTRAW in an environment similar to tast that It all the second states to the CLOSED. salien or native brack line

One of the most promising methods of conserving the breeding stock of fish is to close parts of natural water areas to fishing. In these areas the fish thrive without interference and spreads to other parts of sheesame river for lake. By such means appermanent (breeding estock) is set up, and Nthere is taken each each each example to a lake troat.

No 14 for pickerel, and No. 17, for lake troat.

In addition to the waters already closed for the natural protection and propagation of fish, the following were glosed during the (year, April 1, 1940, to March 31, 1941:

From December 27, 1340, to February v. 1541, hoop nets and trap nets were persted in Ahmic lake and tributary, (year read to the Finovet of this and sake sakekers.)

One thousand five hundred and twenty seven in an and sake sake to thousand five hundred and twenty seven in an and the finovet. The

- 2. CEDAR CREEK (Part); 12 bns. and 5 km are some and entitled to be substanced by the substance of the country of Waterloo.
- 3. CHEMONG LAKE (Part), YHVHUS JADIOOJOH 2101010 Townships of Smith and Emily, Counties of Peterborough and Victoria.
- A. DEEP BAY (Part of Sparrow Lake), the state it was small be properly of Grey, individed that it was small work by the state of Grey.
- Lake Scugog was examined to defende the satisfity of certain areas as satisfication in assistances for massimonge. One of these, (ravi) gogus to the coher at King's bay, hirotsiv to tynnos in the other at King's bay, hirotsiv to tynnos in the other at King's bay, hirotsiv to tynnos in the other at King's bay.
- A site for a dam between Hart lake and Loughborough lakq3NALin32000 tend: the dam is desirablaiotive to tythoo, jellium and specific dam is desirablaiotive to the companion of the dam is desirablaiotive.

I ollution of a branch of the Credit ,X3GRO & SIDON ropX3GRO wYSVARHUND of Halton, was i. (94kd nosgiq resnimed sht ot) sakd as Bas as mab; sht moral) ers this branch jast south.dguorodrsted to rythuoDit, yearah shartykawlkD rootsquidenwork plant.

The pollution of the Moira river was also investigated.

8. LITTLE MUD LAKE,

The Ontario Fisheries Resa**dguorodrested** to ytmuon, dtimeaton estates and streams University of Torurio, continued field and laboratory studies of lakes and streams. Chiversity of Torurio, continued field and laboratory Studies of Lakes and Streams.

14. STREAM connecting Sand Lake and Wolfe Lake,

Township of Crosby North, County of Leeds.

19de in Township of Belmont, County of Peterborough. Interior State of Belmont Lakey, to be not been only county of Peterborough.

TWELVE MILE CREEK (Partisouth-easign Highway No. 65), digital arrow a mode

the of the Marker lake Spronie and Sunday, accessible from the

17.99WHITEFISH, BASS and CLEAR LAKES, nidely offer of old of deliver one transport of Parry Sound the new test of the content 
All of the waters enumerated above are closed to protect black bass and maskinonge, with the exception of No. 2, for speckled trout, No. 10, for rainbow trout, No. 14, for pickerel, and No. 17, for lake trout.

#### REMOVAL OF COARSE FISH

From December 27, 1940, to February 8, 1941, hoop nets and trap nets were operated in Ahmic lake and tributary waters, for the removal of ling and suckers. One thousand five hundred and twenty-seven ling and 234 suckers were caught. The average weight of the ling and suckers was 5 lbs. and  $2\frac{1}{2}$  lbs., respectively.

#### BIOLOGICAL SURVEYS

A biological survey of Curley lake, concession VI, lot 26, township of Glenelg, county of Grey, indicated that it was suitable for large-mouthed black bass.

Lake Scugog was examined to determine the suitability of certain areas as sanctuaries for maskinonge. One of these areas is located at the south tip of Scugog island and the other at King's bay, located at the northwest side of the lake.

A site for a dam between Hart lake and Loughborough lake was investigated; the dam is desirable in order to keep Loughborough lake at a more normal level.

Pollution of a branch of the Credit river, in the township of Esquesing, county of Halton, was investigated. A small stream flowing through Georgetown enters this branch just south of the town, carrying with it wastes from a paper processing plant. The pollution of the Moira river was also investigated.

The Ontario Fisheries Research Laboratory of the Department of Biology, University of Toronto, continued field and laboratory studies of lakes and streams in Algonquin Park.

Following the procedure of the previous year the members of the laboratory cooperated with the Park staff in distributing speckled trout yearlings provided by the Ontario Department of Game and Fisheries. The lakes stocked are included in the lists in Appendix No. 1, under the district of Nipissing. Speckled trout planted in Brewer, Cache, Costello and Opeongo lakes were marked by removal of the adipose fin. This year one of the Park trucks was equipped with tanks making it possible to transport the fish earlier in the season and to plant them while the surface waters of the lakes were still quite cool, which should add greatly to their chances of survival. It is extremely important that we should measure the success of these plantings, and all persons fishing in the lakes in which speckled trout have been planted are urged to report their catches through the medium of the creel census.

The first successful planting of lake herring in lake Opeongo as food for the trout was accomplished this year by transferring 250 six inch lake herring from Mary river near Huntsville.

The transport of adult lake trout from more inaccessible to heavily fished waters was not successful. The pound nets were set in White Trout lake, but presumably owing to the extremely backward season the trout did not run and not enough were caught to warrant the expense of continued fishing.

Three of the smaller lakes, Jacks, Sproule and Sunday, accessible from the highway and which do not offer fishing at present were investigated. These seem suitable for trout and an attempt to develop fishing in them is planned.

In all, twenty-one lakes were closed to fishing in 1940. These lakes will be open in 1941. Raven, Head and Merchant lakes, which were closed in 1939 were open in 1940. No creel census reports were received from Raven lake but the fishing in both Head and Merchant showed the benefit of the year's respite. The availability of lake trout in Head lake was almost twice as great in 1940 as in 1938. The situation in Merchant lake is more complicated owing to the history of the fishery there but there is no doubt that the fishing was substantially improved by closure. Owing apparently to a slow growth rate, a single year's closure does not make a marked change in the size composition of lake trout catches, but it does in the case of speckled trout. Merchant lake which was famous for the size of its speckled trout in the past, but which had more recently been disappointing in this respect, again yielded some nice catches in 1940. The Ontario Fisheries Research Laboratory is anxious to receive full reports of fishing in these lakes through the creel census in order to assess the benefits of closure.

It was not possible to carry on as extensive a creel census in 1940 as in previous years. It is of interest to note that 1940 is the first year in which bass were reported in any numbers from Happyisle lake, although they were known to occur there. This rise of a bass population to a fishable level is a further and, it is to be hoped, a last spread of this species in the Opeongo drainage. The creel census of lake Opeongo has now been carried on for five years. The accumulated data have not only enabled the investigators to follow the trend of the lake trout fishery there but are now also sufficient to make a first approximation of the spawning escapement. It remains to be seen whether the escapement in 1936 was sufficient to maintain the stock. An answer to this should be found in the next two years when the young fish resulting from the 1936 spawning will be entering the fishery. Enough creel census returns for bass have now been received to make possible a classification of the bass fisheries similar to that established for the lake trout. Bass lakes in which the average length of the fish captured is between eleven and twelve inches produce the greatest availability of these fish. Most of the creel census work was confined to Algonquin South but records were also gathered for lake Traverse and vicinity. This is of particular importance since lake Traverse is the only lake in the Park offering lunge fishing.

The investigations of the food habits of the game and forage fish were continued. The work on the food and growth of the yellow perch is almost completed. The routine examination of the stomach contents of lake trout, speckled trout and bass was continued at lake Opeongo.

The study of the whitefish population in lake Opeongo was continued; there are dwarf individuals which mature at two years as well as the more usual individuals that grow to three pounds, or more, and mature at four years.

Studies were made on the quantitative methods of sampling the plankton population of certain lakes. Tests were made on the use of a smaller and more convenient form of the tube sampler which has proved to be more accurate than other samplers currently in use.

Stream studies carried out from early May until mid-September were concerned with the insect fauna and the speckled trout. Two locations were selected, Mud creek, a tributary of the Madawaska river near the east gate of the Park, and the rapids below Tea lake dam on the Oxtongue river. At the former location the quantitative distribution of aquatic insects on different types of bottom and in different reaches of the stream was studied. Changes in the fauna of a rapids flooded out by a beaver pond last year were followed, showing some interesting results which were reported at the meeting of the American Fisheries Society held at

Toronto in September. At Tea lake dam an opportunity was afforded of investigating the feeding of speckled trout. Quantitative collections of the insects emerging from the water which form a large percentage of the trout food were made and trout were taken and their stomach contents are being examined to find what elements of the food available to the trout are eaten by them at different times of the day and year. During this study it was noted that the trout were absent from the rapids below the dam from approximately the 20th of July to September 1st.

Work carried on in the experimental laboratory at Opeongo was concerned with various ways in which environment may affect or limit the activities of fish. An investigation of immediate practical importance to our technique of restocking was to ascertain what surface temperatures might be considered unfavourably high for the planting of speckled trout. It was found that speckled trout, straight from the holding troughs, would die within twenty-four hours if placed in water at 73° F. Further, the gradual equalizing of the temperature of the water in the fish can to that of the bath over a period of fifteen minutes gave no appreciable benefits. However, by first exposing the fish to a moderately high temperature for twelve hours (65° F.) it was possible to raise the lethal temperature from 73° F. to 79° F., even although the fish had been returned to cooler water over night. A study of the lethal temperatures of the various species of fish in the waters of the Park was begun.

Studies on the respiratory tolerance of fish were continued, and experiments on the circulatory capacity of fish were conducted by measuring the volume of blood passed by the heart at each stroke. This apparently differs widely in different species of fish and we believe it may be one of the differences between those fish which can live in warm water and those which cannot.

#### ACKNOWLEDGMENTS

The Department is indebted to the Ontario Federation of Anglers and Hunters and its many constituent Fish and Game Protective Associations throughout the Province and to the Northern Ontario Tourist Trade Association, as well as to interested sportsmen and conservationists for their active co-operation and splendid assistance in the protection of the provincial fish and game resources. The activities of these Associations and individuals have undoubtedly played a prominent part in developing the spirit of conservation now prevalent in the Province, and have materially helped to make our work in the Department more agreeable and pleasant.

In closing this report I desire to make reference to the work of the staff. Members of the service, both inside and outside, generally have been conscientious in the performance of their work, and courteous in their contacts with the public, in an endeavour to assure the best results.

All of which is respectfully submitted.

I am, Sir,

Your obedient servant,

D. J. TAYLOR,

Deputy Minister of Game and Fisheries.

#### APPENDIX No. 1

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS APRIL 1st, 1940, to MARCH 31st, 1941.

LARGE-MOUTHED BLACK	BASS	Huron:	
FRY		Mountain Lake	1,000
Brant:		a.	
Fairchild's Creek	15,000	Simcoe:	
<u></u>		Orr Lake	1,000
Frontenac:		77 1	
Bear Lake	5,000	York:	
Coles Lake	5,000	Toronto Island Lagoons	1,000
Dog Lake	5,000		
Lower Trout Lake	5,000	A DITT MG	
McClintock Lake	5,000	ADULTS	
Mud Lake	5,000	Duant	
Spectacle Lake	5,000	Brant:	
TY-1214		Oakland Pond	52
Haliburton:		Youfally.	
Black Lake	15,000	Norfolk:	<b>~</b> .
0-1-		Milford Pond	50
Lanark:		0-61	
Silver Lake (Sherbrooke)	5,000	Oxford:	
State of the state		Maplehurst Lake	50
Leeds:			
Benson Lake	5,000	CHAIL MORWAND DIAGE	70.400
Cranberry Lake	5,000	SMALL-MOUTHED BLACK	BASS
Gananoque Lake	5,000	$\mathbf{F}_{\mathbf{R}\mathbf{Y}}$	
Graham Lake	5,000	Algoma:	
Loon Lake	5,000	Allan Lake	7,500
Lyndhurst Lake	5,000	Alma Lake	5,000
Newboro Lake	5,000	Appleby Lake	5,000
Sand Lake	5,000	Bass Lake (Striker)	7,500
South Lake	5,000	Bass Lake (168)	7,500
Whitefish Lake	5,000	Basswood Lake	5,000
Ontario:		Boundary Lake	7,500
	10000	Bright Lake	5,000
Wagner Lake	10,000	Carpenter Lake	7,500
Detanhanaugh		Cummings Lake	7,500
Peterborough:		Darrell Lake	7,500
Crystal Lake	15,000	Dean Lake	15,000
Lovesick Lake	10,000	Duck Lake	5,000 $5,000$
Salmon Lake	15,000	Foot Lake	5,000
Spence Lake	$10,000 \\ 15,000$	Green Lake	5,000
White Duck Lake	15,000	Horn Lake	5,000
Willte Duck Lake	15,000	Lake of the Mountains	15,000
Victoria:		Lauzon Lake	10.000
	10.000	Long Lake (Patton)	7,500
Scugog River	10,000	Lost Lake	7,500
Waterloo:		McKee's Lake	15,000
	10.000	Meikel Lake	5,000
Conestogo River	10,000	Mine Lake	5,000
		Mississagi Lake	15,000
EINGEDI INGG		Mountain Lake	5,000
FINGERLINGS		Pike Lake	5,000
Bruce:		Potomac Lake	12,000
No. of the contract of the con	F00	Stuart Lake	7,500
Desbarats Creek	500	Turtle Lake	5,000 $5,000$
Marl Lake	500	Twenty-five Cent Lake	7,500
Grey:		Unnamed lake in U Tp	1,500
•	1 000	Brant:	
Curley Lake	$\frac{1,000}{500}$	Scotland Pit Pond	15,000
Saugeen River	300	Scottanu IIt Fonu	10,000

### SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1st, 1940, to March 31st, 1941—Continued

SMALL-MOUTHED BLACK —Continued	BASS	Wadsworth Lake	5,000 10,000
Til min .		Lanark:	
Elgin:	10.000	Bennett Lake	10,000
Pinafore Lake	10,000	Black Lake	10,000
Union Pond	10,000	Christie Lake	10,000
Frontenac:		Clear Lake	5,000
Collins Lake	10,000	Otty Lake	10,000
Mississippi River	10,000	Pike Lake	10,000
Pine Lake	10,000	Silver Lake	` 10,000
Shircliff Lake	5,000	Leeds:	
Grandilla.		Benson Lake	5,000
Grenville:	40000	Cranberry Lake	5,000
Rideau River	10,000	Little Long Lake	5,000
Grey:		Little Rideau Lake	10,000
•	9.000	Lyndhurst Lake	5,000
McCulloch Lake	2,000	Newboro Lake	10,000
Haldimand:		Opinicon Lake	5,000
Grand River	45,000	St. Lawrence River	$25,000 \\ 10,000$
Grand River	45,000	Sand Lake	10,000
Haliburton:		Traynor Lake	5,000
Big Bob Lake	15,000	Whitefish Lake	5,000
Elephant Lake	15,000		
Gull Lake	15,000	Lennox-Addington:	
Head Lake	15,000	Bass Lake	5,000
Koshlong Lake	15,000	Beaver Lake	5,000
Kushog Lake	15,000	Buckshot Lake	10,000
Mink Lake	15,000	Cedar Lake	5,000
Miserable Lake	15,000	Duck Lake	5,000
Mountain Lake	15,000 15,000	Lime Lake Long Lake	$5,000 \\ 10,000$
Paradise Lake	15,000	Loon Lake	15,000
Placid Lake	15,000	Otter Lake	5,000
Round Lake	15,000	White Lake	5,000
South Lake	15,000		
Halton:		Manitoulin:	45 000
Twelve Mile Creek	10.000	Bass Lake	15,000 15,000
I welve wile Creek	10,000	Ragawong Dake	13,000
Hastings:		Middlesex:	
Baptiste Lake	15,000	Thames River	20,000
Bass Lake	10,000	Muskaka	
Beaver Creek	5,000	Muskoka:	F 000
Bennett Lake	$20,000 \\ 10,000$	Camels Lake	5,000 5,000
Burnt Lake	5,000	Davis Lake	5,000
Crow Lake	5,000	Deer Lake	5,000
Crow River	5,000	Devine Lake	5,000
Fraser Lake	5,000	Dickie Lake	5,000
Gull Lake	5,000	Duck Lake	5,000
Gunter Lake	5,000	Gillies Lake	5,000
Jordan Lake	5,000	Haleys Lake	5,000
Little Salmon Lake Moira Lake	$5,000 \\ 20,000$	Kashe Lake Lake Joseph	$15,000 \\ 5,000$
Moira River	10.000	Leach Lake	5,000
Oak Lake	10,000	Little Sand Lake	5,000
Parks Creek	10,000	Long Lake (Draper)	5,000
Pine Lake	5,000	Long Lake (Stephenson)	5,000
Spring Lake	10,000	MacKay Lake	5,000
Trent River	10,000	Mainhoods Lake	5,000

### SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1st, 1940, to March 31st, 1941—Continued

CMAIL MOUNTED DIACK	DAGG	I also of the West	= 000
SMALL-MOUTHED BLACK	BASS	Lake of the Woods	5,000
—Continued		Limestone Lake	5,000
		Little Clam Lake	5,000
Muskoka—Continued		Little Lake Joseph	5,000
Martin Lake	5,000	Little Long Lake	5,000
Muskoka Lake	30,000	Long Lake (Mills-Wilson)	10,000
Muskoka River	5,000	Louisa Lake	5,000
Poverty Lake	5,000	Lynch Lake	10,000
Rosseau Lake	5,000	Maganetawan River	10,000
Three Mile Lake	5,000	Manitowaba Lake	5,000
Tookes Lake	5,000	Manson Lake	5,000
Wood Lake	5,000	Maple Lake	5,000
· ·		Mary Jane Lake	5,000
Nipissing:		McQuaby Lake Memesagamesi Lake	5,000 5,000
Beaver Lake	5,000	Mill Lake	,
Bruce Lake	5,000	Neighick Lake	5,000 $10,000$
Herridge Lake	5,000	Pickerel Lake	20,000
Lake Champlain	5,000	Portage Lake (Humphrey)	5,000
Little Martin Lake	5,000	Portage Lake (McDougall)	5,000
Martin Lake	5,000	Rankin Lake	5,000
Martin River	5,000	Restoule Lake	5,000
McPhee Lake	5,000	Rosseau Lake	5,000
Nosbonsing Lake	5,000	Ruth Lake	5,000
Olive Lake	5,000	Sharrows Lake	5,000
Opechee Lake	5,000		5,000
Talon Lake	5,000	Shawanaga Lake	5,000
Wasing Lake	5,000	Silver Lake	5,000
Wickstead Lake	5,000	Six Mile Lake	5,000
THE TOTAL COME THE TOTAL CONTRACT OF THE TOT	0,000	Spring Lake (Lount)	10,000
Northumberland:		Squaw Lake	5,000
	20.000	Stanley Lake	5,000
Rice Lake	20,000	Star Lake	5,000
Trent River	35,000	Stormy Lake	5.000
		Sucker Lake	5,000
Ontario:		Ten Mile Lake	5,000
Severn River (N. Branch)	20,000	Toad Lake	5,000
		Trout Lake (Humphrey)	5,000
Parry Sound:		Turtle Lake	5,000
Ahmic Lake	20,000	Whitefish Lake	5,000
Arthur Lake	5,000	Whitestone Lake	5,000
Bain Lake	5,000	Wilson Lake (Hagerman)	5,000
Barton Lake	5,000	Wilson Lake (Wilson)	5,000
Bass Lake (Humphrey)	5,000	Wolf Lake	5,000
Beaver Lake (Bethune)	5,000	Wolf River	5,000
Billies Lake	5,000	Woodcock Lake	5,000
Blackwater Lake	15,000		, •
Caribou Lake	5,000	Pool:	
Cecebe Lake	10,000	Peel:	10.000
Charter Lake	5,000	Credit River	10,000
Clear Lake	5.000		
Coles Lake	5,000	Peterborough:	
Commanda Lake	5,000	Big Cedar Lake	5,000
Deer Lake (Lount)	25,000	Chemong Lake	15,000
Deer Lake (Wilson)	5,000	Clear Lake	10,000
Doe Lake	5,000	Deer Bay	10,000
Eagle Lake	5,000	Indian River	10,000
Hamers Lake	5,000	Jack's Lake	10,000
Jack's Lake (Armour)	10,000	Katchiwano Lake	10,000
Jack's Lake (Mills)	5,000	Little Cedar Lake	5,000
Kawigamog Lake	5,000	Little Lake	5,000
Kelcey's Bay	5,000	Long Lake (Burleigh)	10,000
Lake Joseph	5,000	Long Lake (Douro)	5,000
Lake of Many Islands	30,000	Loon Lake	10,000

### SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1st, 1940, to March 31st, 1941—Continued

# April 1st, 1940, to March 31st, 1941—Continued SMALL-MOUTHED BLACK BASS FINGERLINGS

SMALL-MUUINED BLACK	DASS	FINGERLINGS	
—Continued		41	
		Algoma:	
Peterborough—Continued		Aberdeen Lake	2,000
Lovesick Lake	10,000	Alma Lake	3,000
Otonabee River	20,000	Bear Head Lake	1,000
Pigeon Lake	15,000	Caribou Lake	2,000
Stony Lake	20,000	Cloudy Lake	2,000
Trent River	5,000	Cooper Lake	2,000
White Lake	5,000	Desbarats Lake	2,000
White Dake	3,000	Diamond Lake	2,000
		Elbo Lake	4,000
Prince Edward:		Friendly Lake	4,000
Consecon Lake	8,000	Gordon Lake	2,000
Roblins Lake	8,000	Iron Lake	2,000
West Lake	8,000	Jiggery Lake	500
West Bane Hilliam	0,000	Kapuskasing Lake	1,000
1		Keichel Lake	1,000
Renfrew:		Lonely Lake	2,000
Bonnechere River	10,000		
Hurds Lake	10,000	Long Lake (Victoria)	1,000
Olmstead Lake	10,000	Marie Lake	2,000
James Carlo	,	Marion Lake	1,000
Other second		McCarroll Lake	2,000
Simcoe:		Miller Marsh Lake	2,000
Deep Bay Sanctuary	30,000	Patton Lake	2,000
		Pipe Lake	1,000
Stormont:		Rock Lake	2,000
St. Lawrence River	15,000	Unnamed lake in U Tp	3,000
St. Lawrence River	15,000	Windfall Lake	5,000
Sudbury:		Brant:	
Agnew Lake	30,000	Grand River	600
Metagamesi Lake	15,000	Oakland Pond	500
	12,000	Oakland Pond	300
Nepahawin Lake		Daniel Control	
Penage Lake	40,000	Bruce:	
Ratter Lake	10,000	Arran Lake	3,000
Spanish River	30,000	Boat Lake	3,000
Wanapitei Lake	30,000	Chesley Lake	4,000
Whitewater Lake	15,000	Isaac Lake	2,000
		Sauble River	3,000
Timiskaming:		Saugeen River	2,000
	10.000	Silver Lake	1,000
Lake Timagami	10,000		,
		Carleton:	
Victoria:			1,000
	25,000	Ottawa River	1,000
Balsam Lake	15,000 15,000	Cochranet	
		Cochrane:	
Crooked Lake	15,000	Baart's Lake	500
Dalrymple Lake	20,000		
Pigeon Creek	10,000	Frontenac:	
Round Lake	15,000	Bass Lake (Loughborough).	1,000
Silver Lake	10,000	Big Clear Lake	1,000
Sturgeon River	20,000	Bobs Lake	2,000
		Brule Lake	1,000
Waterloo:		Buck Lake (Bedford)	1,000
	10.000	Buck Lake (Kennebec)	1,000
Black River	10,000	Collins Lake	1,000
Grand River	10,000	Cranberry Lake	1,000
Nith River	10,000		1,000
Paradise Lake	10,000	Cross Lake	1,000 $1,000$
		Crotch Lake	
Wellington:		Crow Lake	1,000
Wellington:		Devil Lake	1,000
Puslinch Lake	20,000	Eagle Lake	3,000

SMALL-MOUTHED BLACK	BASS	Lanark:	
Continued		Dalhousie Lake	1,000
		Gillies Lake	500
Frontenac—Continued		Horn Lake	500
Farm Lake	1,000	Kerr Lake	1,000
Fortune Lake	1,000	Mississippi River	1,000
Gull Lake (Clarendon)	1,000	Patterson Lake	1,000
Horseshoe Lake	500	Round Lake	1,000
Indian Lake	1,000	Taring	
Kashwakamak Lake	2,500	Leeds:	
Long Lake (Olden) Long Lake (Portland)	$1,000 \\ 1,000$	Charleston Lake	1,500
Long Lake (Portland)  Loughborough Lake	4,000	Gananoque Lake	1,000
Marble Lake	500	Lower Beverley Lake	1,000
Mazinaw Lake	1,000	Red Horse Lake	1,000
Mink Lake	1,000	Rideau Lake Sand Lake	1,000 $1,000$
Mississagagon Lake	2,000	Whitefish Lake	1,000
Quebec Lake	500	Whitehell Dake	1,000
Riley Lake	500	Manitoulin:	
Rock Lake	500		
Salmon Lake	1,000	Bayfield Sound	7,500
Sand Lake	1,000	Big Lake	3,000
Sharbot Lake	$1,000 \\ 1,000$	Ice Lake	6,000
Shaw Lake	1,000	Lilly Lake Loon Lake	5,000 $5,000$
Varty Lake	1,000	Manitou Lake	6,500
White Lake	1,000	McGregor Bay	1,200
White Lake	2,000	Mindemoya Lake	12.000
Grenville:		Silver Lake	6,000
Nation River	1.000	South Bay	20,000
Rideau River	1,000	Tobacco Lake	6,000
	·	Whitefish Lake	2,500
Grey:			
Francis Lake	3,000	Muskoka:	
Mountain Lake	1,000	Abbs Lake	1,000
Pearl Lake	1,000	Crooked Lake	1,000
		McKay Lake	1,000
Haliburton:		Six Mile Lake	1,000
Bark Lake	1,000	Walker Lake	1,000
Bat Lake	2,000		
Bay at mouth of Buck Lake	2,000	Nipissing:	
Cameron Lake	$2,000 \\ 500$	Bear Lake	500
Kashagawigamog Lake	2,000	Cache Lake	3,000
Long Lake	3,000	Clear Lake	500
Maple Lake	2,000	Cowley Lake	500
Moore Lake	3,000	French River	2,250
Paul Lake	2,000	Kaibuskong Lake	500
Pete Lake	2,000	Little Sturgeon Lake	500
Seeton Lake	2,000	Lower Twin Lake	500
Third Lake	2,000	Moore Lake	$\frac{500}{3,000}$
Heatings		Nipissing Lake	4,500
Hastings:		Poplar Lake	500
Baptiste Lake	1,500	Spruce Lake	500
Crow River	$1,000 \\ 1,000$	Talon Lake	500
Hinchcliff Lake Loon Lake		Tomiko Lake	6,000
Moira Lake		Trout Lake	10,000
Tongamong Lake	1,000	Turtle Lake	500
Whetstone Lake	1,000	Wistiwasing Lake	500
	,		
Huron:		Norfolk:	
Maitland River	1,000	Waterford Gravel Pit Pond	600

SMALL-MOUTHED BLACK	BASS	Mississauga Lake	1,000
—Continued		Oak Lake	1,000
		Round Lake	2,654
Northumberland:		Sandy Lake	900
Rice Lake	800	Stony Lake Talon Lake	$\frac{2,000}{800}$
		Trout Lake	800
Ontario:		Twin Lake	1,000
Lake St. John	1,000	Wolf Lake	800
Darry Sound		Renfrew:	
Parry Sound:	<b>~</b> 00	Calabogie Lake	1,000
Bass Lake (Hardy)	500	Chats Lake	1,000
Bass Lake (Patterson)	$\substack{\textbf{1,000}\\ \textbf{500}}$	Constant Lake	1,000
Big Lake	500	Ferguson Lake	1,000
Crane Lake	1,000	Frederick Bay	1,000
Crooked Lake	1,000	Green Lake	500
Devolve Lake	500	Hyde Bay	500
Eagle Lake	1,000	Loon Lake	500
Goose-neck Lake	1,000	Mink Lake	1,000
Haynes Lake	500	Moccasin Lake	500
Horseshoe Lake	1,000	Morans Lake	500
Irish Lake	500	Smiths Lake	$\frac{1,000}{500}$
Lennon Lake	1,000	Stones Lake	1,000
Long Lake	· <b>5</b> 00	White Lake	1,000
Loon Lake	500	White Dake	1,000
Maganetawan River	500	Simcoe:	
McVeety Lake	$\substack{\textbf{1,000}\\\textbf{500}}$	Bass Lake	2,000
Moffat Lake	500 *	Cook's Lake	2,000
Mud Lake	1,000	Couchiching Lake	2,000
Nipissing Lake	2.000	Gloucester Pool	3,000
Oastler Lake	500	Kempenfeldt Bay	2,000
Orange Lake	500	Nottawasaga River	2,500
Rainy Lake	1,000	Park Lake	3,000
Shoal Lake	1,000		
Smith Bay	1,000	Sudbury:	
Spring Lake	1,000	Bass Lake (Dennison)	2,500
Trout Lake (McDougall)	1,000	Bass Lake (36-37)	3,000
Watt Lake	1,000	Charlton Lake	2,500
Wiggins Lake	500	Cranberry Lake	3,000
Wolf Lake	$\begin{array}{c} 500 \\ 500 \end{array}$	Cross Lake	750
Wright Lake	300	Edith Lake	750
Detanhananah		French River	1,750
Peterborough:		Frood Lake	2,500
Bald Lake	900	Howry Lake Ivanhoe Lake	$\frac{1,500}{750}$
Bass Lake	800	LaCloche Lake	1,000
Belmont Lake	$\frac{800}{900}$	Maple Lake	1,000
Bottle Lake	1,500	McCharles Lake	2,500
Catchacoma Lake	1,500	Nelson Lake	1,500
Chemong Lake	1,000	Nipissing Lake	500
Crab Lake	800	Penage Lake	4,000
Crystal Lake	800	Poulin Lake	3,000
Duck Lake	800	Shanty Bay	1,000
Eagle Lake	1,800	Tower Lake	3,000
Gold Lake	900	Trout Lake	1,250
Jack's Lake	800	Vermilion Lake	1,000
Kashabog Lake	1,000	Thunder Pay	
Katchiwano Lake	1,000	Thunder Bay:	0.000
Little Mud Lake	500	Boulevard Lake	$\frac{6,000}{3,000}$
Little Trout Lake Lovesick Lake	$1,000 \\ 1,200$	Selwyn Lake Shebandowan Lake	3,000
Lovesick Lake	1,200	Shebandowan Lake	0,000

SMALL-MOUTHED BLACK F	BASS	MASKINONGE	
—Continued		FRY Carleton:	
Timiskaming:		Ottawa River	05.000
Bear Lake	500	Ottawa River	25,000
Beaverhouse Lake	500	Frontenac:	
Bloom Lake	500	St. Lawrence River	20,000
Emerald Lake	$\frac{500}{500}$	•	,
Hanging Stone River  Lake Timagami	500	Haldimand:	
· Sesekinika Lake	1,000	Grand River	10,000
Shanty Lake	500	Hastings:	
		Bay of Quinte	35,000
Victoria:	0.000	Beaver Creek	20,000
Cameron Lake	$\frac{2,000}{2,000}$	Crow Lake	20,000
Mud Turtle Lake	2,000	Crow River	20,000
Round Lake	2,000	Moira Lake	$20,000 \\ 35,000$
		Sears Lake	10,000
Wellington:		Stoco Lake	15,000
Allan's Dam	1,500	Tongamong Lake	20,000
Armstrong Dam	2,000	Trent River Twin Lakes	$\frac{40,000}{5,000}$
York:		Whetstone Lake	10,000
Lake Simcoe	2,000	_	ŕ
Lake Billiou	2,000	Leeds:	
Miscellaneous:		St. Lawrence River	30,000
Sales	5,000	Muskoka:	
		Kahshe Lake	15,000
		Sparrow Lake	20,000
YEARLINGS AND ADULT	S	N722 2	
		Nipissing:	90.000
Brant:		Lake Nipissing Lake Traverse	$30,000 \\ 5,000$
Burford Lake	110	Wolseley Bay	30,000
Grand River	$\begin{array}{c} 73 \\ 100 \end{array}$		,
Scottand 1 tt 1 ond	100	Northumberland:	
Hastings:		Rice Lake	75,000
Crow Lake	100	Trent River	140,000
		Ontario:	
Manitoulin:		Lake St. John	10,000
Perch Lake	24		
		Parry Sound:	
Middlesex:		Lake Nipissing	$20,000 \\ 10,000$
Sydenham River	107	Pickerel River	10,000
Muskoka:		Peterborough:	
Skeleton Lake	542	Bald Lake	10,000
Skeletoli Lake	342	Belmont Lake	50,000
Norfolk:		Buckhorn Lake	$25,000 \\ 80,000$
Waterford Pond	105	Clear Lake	80,000
Fig. 1, the		Deer Bay	80,000
Peterborough:		Deer Lake	5,000
Belmont Lake	100	Gilchrist Bay Indian River	$20,000 \\ 15,000$
0.00		Kashabog Lake	20,000
Great Lakes:		Katchiwano Lake	120,000
North Channel	410	Little Lake	10,000

MASKINONGE—Continue	ď	FINGERLINGS	
Peterborough—Continued		Peterborough:	
Little Mud Lake Little Trout Lake Lovesick Lake	$20,000 \\ 50,000 \\ 40,000$	Belmont Lake Buckhorn Lake Clear Lake	200 200 200
Otonabee River	40,000 50,000	Gilchrist Bay Katchawanooka River	200 200
Rice Lake	20,000 50,000	Rice Lake Searight Bay	$\frac{200}{23}$
Sandy Lake	250,000 $20,000$	Stony Lake	510
Twin Lake	5,000 15,000	Lake Couchiching	200
Prince Edward:		Victoria: Pigeon River	200
East Lake	$10,000 \\ 15,000$	Sturgeon River	200
Renfrew:		PERCH	
Black Bay Cory Lake Cushene Lake	$10,000 \\ 10,000 \\ 10,000$	FRY	
James Lake Lac du Bois Dur Montgomery Lake	15,000 10,000 15,000	Lake Erie	13,000,000
Redbridge Lake Stephenson Lake	$\frac{15,000}{5,000}$	PICKEREL	
Simcoe:		EYED EGGS	•
Gloucester Pool Lake Simcoe	$20,000 \\ 25,000$	Sparrow Lake	2,000,000
Stormont:		FRY	
St. Lawrence River	20,000	Algoma:	
Sudbury: French River	20,000	Allan Lake	
	20,000	Arnill Lake Bright Lake	500,000 $500,000$
Thunder Bay: Lac des Mille Lacs	5,000	Canoe Lake Caribou Lake Clear Lake	1,000,000 500,000
Victoria:		Crab Lake	1,000,000 $100,000$ $500,000$
Balsam Lake	$\frac{40,000}{15,000}$	Dean Lake	250,000
Cameron Lake	$20,000 \\ 15,000$	Gordon LakeGranary Lake	500,000 350,000
Mud Turtle Lake Pigeon Creek	$15,000 \\ 40,000$	Keichel Lake Lake of the Mountains	500,000 150,000
Pigeon Lake	60,000 80,000	Lauzon Lake Lillyget Lake	500,000 500,000
Scugog Lake	$\frac{40,000}{10,000}$	Little Basswood Lake Little Clear Lake	500,000 500,000
Silver Lake	$10,000 \\ 10,000 \\ 10,000$	Marion Lake	$250,000 \\ 500,000$
Waterloo:		Pipe Lake	500,000
Nith River	5,000	Spanish River	500,000 500,000

PICKEREL—Continued	Haliburton:
	Cauntaus Lake 500,000
Bruce:	Elephant Lake 1,000,000
Berry's Lake 750,000	Mink Lake 150,000
Boat Lake	Otter Lake 250,000
Chesley Lake 1,000,000	Paudash Lake 1,000,000
Isaac Lake 1,000,000	Wolf Lake 500,000
Sauble River 1,000,000	77
Saugeen River 750,000	Hastings:
Seips Lake 300,000	Baptiste Lake 800,000
Silver Lake	Bow Lake
Sky Lake	Crow Lake 1,000,000
Spry Lake 250,000	Crow River
Carleton:	Lime Lake
Ottawa River 500,000	Mallard Lake         200,000           Moira Lake         500,000
Ottavia zaroz vitivitivitivi	Moira River 300,000
Cochrane:	Rock Lake 500,000
Bigwater Lake 200,000	Salmon Trout Lake 100,000
Bobs Lake 200,000	Sears Lake 100,000
Nighthawk River 200,000	Silent Lake
Round Lake 100,000	Tongamong Lake 1,000,000
Whitefish River 300,000	Trent River 500,000
Frontenac:	
	Kenora:
Bass Lake	Andy Lake
Big Clear Lake         200,000           Big Gull Lake         700,000	Berry Lake 1,500,000
Big Lake	Blindfold Lake
Bobs Lake 1,950,000	Bowden Lake 750,000
Cross Lake (Kennebec) 700,000	Clay Lake 750,000
Crotch Lake (Palmerston) 500,000	Corner Lake
Crow Lake 300,000	Eagle Lake 3,000,000
Dean Lake 100,000	Ely Lake
Fourteen Island Lake 100,000	Lake of the Woods58,175,000
Green Bay Lake 200,000	Long Bow Lake
Green Lake 500,000	Marchington Lake 3,000,000
Gull Lake 700,000	Silver Lake
Horseshoe Lake 100,000	Vermilion Bay 1,000,000
Kashwakamak Lake 1,850,000	Wabigoon Lake 1,000,000
Long Lake (Olden) 250,000 Long Lake (Portland) 450,000	Winnipeg River 1,000,000
Malcolm Lake 500,000	
Marble Lake 200,000	Lanark:
Mazinaw Lake 500,000	Barbers Lake 200,000
McClintock Lake 100,000	Bennett Lake 400,000
Mink Lake 100,000	Black Lake 150,000
Mississagagon Lake 750,000	Christie Lake 800,000
Mississippi River 800,000	Dalhousie Lake 500,000
Otter Lake 100,000	Gillies Lake 200,000
Red Pine Lake 300,000	Keatings Lake 100,000
Salmon Lake 300,000	Kerr Lake 500,000
Sharbot Lake 500,000	Long Lake
Varty Lake 100,000	Mississippi Lake
Grenville:	Otty Lake 300,000
Nation River 400,000	Patterson Lake 500,000
Rideau River 1,000,000	Round Lake
- 15000,000 1,000,000	Spectacle Lake 500,000
Grey:	Whites Lake 450,000
Mountain Lake 750,000	
	Leeds:
Haldimand:	Clear Lake 200,000
Grand River 1,500,000	Crosby Lake 500,000

PICKEREL—Continued		Red Cedar Lake	200,000
		Rib Lake	200,000
Leeds—Continued		Talon Lake	500,000
Devil Lake	250,000	Tilden Lake	200,000
Graham Lake	100,000	Tomiko Lake	
Higgley Lake	150,000	Twin Lake	100,000
Loon Lake	200,000	Wasaki Lake	200,000
Opinicon Lake	800,000	Wasing Lake	$200,000 \\ 500,000$
St. Lawrence River		Wickstead Bay	
Sand Lake	$750,000 \\ 150,000$	Wolseley Day	1,000,000
Traynor Lake Upper Rideau		Northumberland:	
Wolf Lake	500,000		F00 000
Woll Lake	300,000	Crow Bay	500,000
Lennox-Addington:		Crow River	500,000
_	1,000,000	Trent River	
Camel Lake	500,000	Tient thive:	3,000,000
Cedar Lake	300,000	Ontario:	
Duck Lake	200,000		1 000 000
Long Lake	500,000	Lake St. John	1,000,000
Loon Lake	500,000	Mud Lake	
Mazinaw Lake	600,000	Severn River	1,500,000
Van's Lake	100,000	Oxford:	
White Lake	100,000		
		Lakeside Lake	
Manitoulin:		Nith River	1,000,000
Burnt Lake	1,000,000	Donny Counds	
Manitowaning Bay	500,000	Parry Sound:	
Mindemoya Lake	4,000,000	Ahmic Lake	650,000
South Bay	500,000	Barton Lake	200,000
West Bay	1,500,000	Bass Lake	200,000
		Billie Lake	100,000
Muskoka:		Burnt Lake	$100,000 \\ 300,000$
Allen's Lake	300,000	Charter Lake	200,000
Axel's Lake	150,000	Clear Lake (Mills)	100,000
Crooked Lake	750,000	Clear Lake (Watts)	200,000
Kahshe Lake	250,000	Commanda Lake	250,000
Lake Muskoka	800,000	Cranberry Lake	100,000
Long Lake (McLean)	250,000	Crooked Lake	200,000
Mootes Lake	150,000	Doe Lake	600,000
Silver Lake	250,000	Duck Lake	100,000
Six Mile Lake	750,000	Haynes Lake	150,000
Skeleton Lake	250,000	Isabella Lake	300,000
Nipissing:		Jacks Lake	100,000
	200 000	Kawigamog Lake	450,000
Beaver Lake	$200,000 \\ 200,000$	Lake Joseph	400,000
Cedar Lake	500,000	Lake Nipissing Lake of Many Islands	2,000,000 100,000
French River		Lake Rosseau	2,700,000
Kaibuskong Lake	100,000	Little Lake Joseph	250,000
Lake Champlain	200,000	Little Long Lake	100,000
Lake Nipissing	,	Long Lake (Mills)	100,000
Lake Timagami		Long Lake (Patterson)	200,000
Little Martin Lake	100,000	Long Lake (Wilson)	100,000
Lower Twin Lake	200,000	Loon Bay	500,000
Marion Lake	400,000	Maganetawan River	450,000
Martin Lake	800,000	McKeown Lake	100,000
Martin River	600,000	McQuaby Lake	100,000
McPhee Lake	200,000	McVeety Lake	100,000
Moore Lake	250,000	Memesagamesi Lake	
Net Lake	200,000	Merrick's Lake	50,000 200,000
Nosbonsing Lake	150,000	Mill Lake Naiscot Lake	500,000
Openiee Lake	100,000	Naiscut Lake	500,000

PICKEREL—Continued		Renfrew:	
Parama Garanti Garatiana		Black Bay	300,000
Parry Sound—Continued	40000	Calabogie Lake	200,000
Neighick Lake	100,000	Chats Lake	500,000
Oastler Lake	800,000	Constant Lake	250,000
Pickerel Lake	250,000	Cushene Lake	100,000
Pickerel River	$500,000 \\ 450,000$	Dempsey's Lake	100,000 $500,000$
Portage Lake	200,000	Dore Lake	500,000
Rainy Lake	600,000	Hardwood Lake	200,000
Ruth Lake	100,000	Hazel Bay	250,000
Ryans Lake	100,000	Hurds Lake	200,000
Sharrows Lake	100,000	Jones Lake	100,000
Shawanaga Lake	300,000	Lafleur Lake	100,000
Shebeshekong Lake	100,000	Madawaska River	400,000
Shoal Lake	200,000	Muskrat Lake	250,000
Silver Lake	100,000	Norway Lake	450,000
Snakeskin Lake	100,000	Olmstead Lake	250,000
Squaw Lake	400,000	Otterson Lake	100,000
Stanley Lake	150,000	Petawawa River	500,000
Stewarts Lake	200,000	Stephenson Lake	100,000
Stormy Lake	100,000	Sturgeon Lake	250,000
Sucker Lake (Humphrey)	300,000	Westmeath Lake	250,000
Sucker Lake (Mills)	100,000	White Lake (McNab)	500,000 $250,000$
Theodelite Lake	$100,000 \\ 200,000$	White Lake (Raglan)	200,000
Toad Lake	,	York River	200,000
Whitestone Lake	300,000	Russell:	
Wilson Lake	150,000		1 000 000
Wolf River		Castor River	1,000,000
Manitowaba Lake	200,000	Cimana	
	,	Simcoe: Gloucester Pool	4,000,000
Peterborough:		Little Lake	500,000
Belmont Lake	1,000,000	North River	
Buckhorn Lake		Nottawasaga River	600,000
Concession Lake	100,000	Severn River	
Connolly's Lake	500,000	Six Mile Lake	750,000
Deer Lake	500,000		
Indian River	500,000	Stormont:	
Little Cedar Lake	500,000	St. Lawrence River	1.600.000
Little Trout Lake	500,000	200 200 200 200 000 000 000 000 000 000	2,000,000
Long Lake (Burleigh)	1,000,000	Sudbury:	
Loon Lake (Chandos)	1,000,000 $500,000$	Agnew Lake	1,000,000
North River Oak Lake	1,000,000	Cameron Lake	100,000
Otonabee River	500,000	Charlton Lake	500,000
Rice Lake	2,000,000	Clear Lake	100,000
Round Lake		Crooked Lake	250,000
Trent River		Cutler Lake	250,000
Twin Lakes		French River	3,000,000
		Ivanhoe Lake	500,000
Prince Edward:		La Cloche Lake	
Consecon Lake	300,000	Lake Penage	2,000,000
West Lake	300,000	Long Lake	750,000 $100,000$
Rainy River:		Lovering Lake	
Clearwater Lake	6 000 000	Makido Lake	400,000
Lake of the Woods		McFarlane Lake	200,000
One-sided Lake		Minisinakwa Lake	
Quill Lake		Moose Lake	250,000
Rainy Lake		Nepiwasy Lake	500,000
Sabaskong Bay (Lake of		Richards Lake	200,000
the Woods)	15,000,000	Shanty Bay	
Steeprock Lake	2,000,000	Wanapitei Lake	1,000,000

PICKEREL—Continued	Little Otter	15,000
Sudbury—Continued	Nanticoke Creek Unnamed Stream	$\frac{10,000}{2,000}$
Whitewater Lake 200,000	Chilamed Stream	2,000
White water Lake 200,000	Northumberland:	
Thunder Bay:	Bowens Pond	725
Lake Windigoostigwan 500,000	Peel:	
Timiskaming:	Credit River	10,000
Bear Lake 250,000	213410 241701 1111111111111111111111111111111111	20,000
Beaverhouse Lake 250,000	Simcoe:	
Blue Lake 200,000	Nottawasaga River	40,000
Cedar Lake       75,000         Gillies Lake       75,000	Wellington:	
Granite Lake 75,000	Speed River	10,000
Hound Chute 75,000		,
Kenogami Lake         300,000           Lake Timagami         2,000,000	York:	
Net Lake	Humber River	10,000
Portage Lake		
Round Lake	YEARLINGS	
Twin Lake	Brant:	
Victoria Lake 100,000	Scotland Pit Pond	500
Wendigo Lake 250,000	Whiteman's Creek	3,600
Victoria:	D	
Little Turtle Lake 1,000,000	Bruce:	1 200
Mud Turtle Lake 500,000	Albermarle Creek Fladd's Dam	$\frac{1,200}{500}$
Great Lakes:	Lockerby Creek	3,600
Lake Superior 3,000,000	Plum Creek	3,600
North Channel	Saugeen River	$7,250 \\ 1,800$
Lake Huron23,862,000	Spring Creek	1,000
	Sucker Creek	1,600
ADULTS	Teeswater River Vogt's Creek	$\frac{3,600}{1,000}$
	Willow Creek	1,600
Middlesex:		
Sydenham River 100	Cochrane:	0.500
	Mattagami River	2,500
BROWN TROUT	Durham:	
FINGERLINGS	Bowmanville Pond	1,500
Brant:	Ganaraska River	2,000
Whiteman's Creek 10,000	Mordens Creek	$\frac{1,500}{500}$
7	Stephens Creek	1,500
Elgin:	Vanstone's Pond	1,500
Big Creek 15,000	Filata	
Grey:	Elgin: Big Creek	3,600
Potawatami River 10,000	Deer Creek	500
Saugeen River 20,000	Little Otter	3,600
Styx River 10,000	Otter Creek	500
Muskoka:	Grey:	
Indian River 5,000	Beaver River	1,500
Kahshe Lake 5,000	Big Head River	10,800
Norfolk:	Lueck's Mill Pond Potawatami River	$\frac{3,000}{2,700}$
Big Creek 10,000	Sauble River	1,800
2,000		

BROWN TROUT—Continue	ed	Peterborough:	
Guara Garatta a 1		Deer Bay Creek	8,000
Grey—Continued	10.000	Eel's Creek	9,600
Saugeen River	12,600	Jack's Creek	$\frac{3,700}{7,000}$
Styx River	$\frac{3,600}{4,400}$	Mississauga River Mount Pleasant Stream	1,500
Sydenham River	4,400		1,500
Haldimand:		Simcoe:	2.700
Rogers Creek	1,800	Boyne River Nottawasagá River	3,700 $16,800$
Line		Willow Creek	3,000
Halton:		Willow Creek	0,000
Sixteen Mile Creek	2,000	Waterloo:	
Twelve Mile Creek	13,300	Bridgeport Dam	1,500
TT 4:		Cedar Creek	1,000
Hastings:		Dentinger Creek	2,200
Rawdon Creek	3,600	Fisher Mill Dam	1,500
***		Gingerich Creek	1,000
Huron:	• • • • •	Welland:	
Maitland River	9,000	Lyons Creek	8,000
Nine Mile River	3,600	Lyons Creek	0,000
Lambton:		Wellington:	
Bear Creek	1,000	Conestogo River	2,200
Bear Creek	1,000	Everton Stream	1,500
Lincoln:		Speed River	6,300
Effingham Stream	1,500	III and two and ha	
Twelve Mile Creek	1.000	Wentworth:	0.100
THE CAUCHT	2,000	Bronte Creek	2,100
Middlesex:		York:	
Caddy Creek	500	Hoover Pond	300
Medway Creek	2,200	Humber River	6,000
Norfolk:			
Big Creek	10,800	LAKE TROUT	
Clear Lake	1.500		
Little Otter	3,000	EYED EGGS	
Nanticoke Creek	3,800	Exchange	E7E 000
Stony Creek	400		575,000
Vanisan Oncols			575,000
Venison Creek	1,500		515,000
		$\mathbf{F}\mathbf{R}\mathbf{Y}$	515,000
Northumberland:	1,500	FRY Frontenac:	515,000
Northumberland: Cavan Stream	1,500 2,700	Frontenac:	·
Northumberland: Cavan Stream Cole's Pond	1,500 2,700 500	Frontenac: Big Gull Lake	20,000
Northumberland: Cavan Stream	1,500 2,700	Frontenac:  Big Gull Lake  Brule Lake  Buck Lake	·
Northumberland: Cavan Stream Cole's Pond	1,500 2,700 500	Frontenac: Big Gull Lake Brule Lake Buck Lake Buckshot Lake	20,000 5,000 20,000 30,000
Northumberland: Cavan Stream Cole's Pond Dudley's Pond Ontario:	1,500 2,700 500 250	Frontenac: Big Gull Lake Brule Lake Buck Lake Buckshot Lake Camp Lake	20,000 5,000 20,000 30,000 5,000
Northumberland: Cavan Stream Cole's Pond Dudley's Pond	1,500 2,700 500	Frontenac: Big Gull Lake Brule Lake Buck Lake Buck Lake Camp Lake Canoe Lake	20,000 5,000 20,000 30,000 5,000 5,000
Northumberland: Cavan Stream Cole's Pond Dudley's Pond Ontario:	1,500 2,700 500 250	Frontenac: Big Gull Lake Brule Lake Buck Lake Buck Lake Camp Lake Canoe Lake Canonto Lake	20,000 5,000 20,000 30,000 5,000 15,000
Northumberland: Cavan Stream Cole's Pond Dudley's Pond Ontario: Chubtown Creek Oxford:	1,500 2,700 500 250 1,500	Frontenac: Big Gull Lake Brule Lake Buck Lake Buckshot Lake Camp Lake Canoe Lake Canonto Lake Chambers Lake	20,000 5,000 20,000 30,000 5,000 15,000 5,000
Northumberland: Cavan Stream Cole's Pond Dudley's Pond Ontario: Chubtown Creek	1,500 2,700 500 250	Frontenac: Big Gull Lake Brule Lake Buck Lake Buck Lake Camp Lake Canoe Lake Canonto Lake	20,000 5,000 20,000 30,000 5,000 15,000
Northumberland: Cavan Stream Cole's Pond Dudley's Pond Ontario: Chubtown Creek Oxford: Burns Creek	1,500 2,700 500 250 1,500	Frontenac: Big Gull Lake Brule Lake Buck Lake Buckshot Lake Camp Lake Canoe Lake Canonto Lake Chambers Lake Crotch Lake Crow Lake	20,000 5,000 20,000 30,000 5,000 15,000 5,000 35,000 20,000 15,000
Northumberland: Cavan Stream Cole's Pond Dudley's Pond Ontario: Chubtown Creek Oxford: Burns Creek	1,500 2,700 500 250 1,500	Frontenac:  Big Gull Lake Brule Lake Buck Lake Buck Lake Camp Lake Canoe Lake Canonto Lake Chambers Lake Crotch Lake Crow Lake Draper Lake Eagle Lake	20,000 5,000 20,000 30,000 5,000 15,000 5,000 20,000 15,000 10,000
Northumberland: Cavan Stream Cole's Pond Dudley's Pond  Ontario: Chubtown Creek  Oxford: Burns Creek Horner's Creek	1,500 2,700 500 250 1,500	Frontenac:  Big Gull Lake Brule Lake Buck Lake Buck Lake Camp Lake Canoe Lake Canonto Lake Chambers Lake Crotch Lake Crow Lake Draper Lake Eagle Lake Granite Lake	20,000 5,000 20,000 30,000 5,000 15,000 35,000 20,000 10,000 5,000
Northumberland: Cavan Stream Cole's Pond Dudley's Pond  Ontario: Chubtown Creek  Oxford: Burns Creek Horner's Creek	1,500  2,700 500 250  1,500  1,000 1,000	Frontenac:  Big Gull Lake Brule Lake Buck Lake Buckshot Lake Camp Lake Canoe Lake Canoet Lake Chambers Lake Crotch Lake Crow Lake Draper Lake Eagle Lake Granite Lake Green Lake	20,000 5,000 20,000 30,000 5,000 5,000 15,000 20,000 10,000 5,000 20,000
Northumberland: Cavan Stream Cole's Pond Dudley's Pond  Ontario: Chubtown Creek  Oxford: Burns Creek Horner's Creek  Peel: Credit River  Perth:	1,500  2,700 500 250  1,500  1,000 1,000	Frontenac: Big Gull Lake Brule Lake Buck Lake Buck Lake Buckshot Lake Camp Lake Canoe Lake Canonto Lake Chambers Lake Crotch Lake Crow Lake Draper Lake Eagle Lake Granite Lake Green Lake Grindstone Lake	20,000 5,000 20,000 30,000 5,000 15,000 35,000 20,000 10,000 5,000 20,000 10,000
Northumberland: Cavan Stream Cole's Pond Dudley's Pond  Ontario: Chubtown Creek  Oxford: Burns Creek Horner's Creek  Peel: Credit River  Perth: Avon River	1,500  2,700 500 250  1,500  1,000 1,000	Frontenac:  Big Gull Lake Brule Lake Buck Lake Buckshot Lake Camp Lake Canoe Lake Canoet Lake Chambers Lake Crotch Lake Crow Lake Draper Lake Eagle Lake Granite Lake Green Lake	20,000 5,000 20,000 30,000 5,000 5,000 15,000 20,000 10,000 5,000 20,000
Northumberland: Cavan Stream Cole's Pond Dudley's Pond  Ontario: Chubtown Creek  Oxford: Burns Creek Horner's Creek  Peel: Credit River  Perth:	1,500  2,700 500 250  1,500  1,000 1,000 3,000	Frontenac: Big Gull Lake Brule Lake Buck Lake Buck Lake Buckshot Lake Camp Lake Canoe Lake Canonto Lake Chambers Lake Crotch Lake Crow Lake Draper Lake Eagle Lake Granite Lake Green Lake Grindstone Lake Kashwakamak Lake	20,000 5,000 20,000 30,000 5,000 15,000 20,000 10,000 10,000 10,000 10,000

LAKE TROUT—Continued		Little Weslemkoon Lake Loon Lake	5,00 <b>0</b> 60,000
Frontenac—Continued		Otter Lake	10,000
Mississauga Lake	10,000	Thirty Island Lake	20,000
Palmerston Lake	25,000	Weslemkoon Lake	10,000
Reid's Lake	15,000	White Lake	10,000
Schooner Lake	25,000		
Sharbot Lake	30,000	Peterborough:	
	,	Belmont Lake	20,000
Haliburton:		Big Cedar Lake	10,000
Deer Lake	5,000	Bottle Lake	10,000
Drag Lake	25,000	Catchacoma Lake	25,000
Eagle Lake	10,000	Crystal Lake	10,000
East Lake	5,000	Eagle Lake	30,000
Farquhar Lake	10,000	Eel's Lake	30,000
Fishtail Lake	5,000	Gold Lake	10,000
Hurricane Lake	5,000	Jack's Lake	30,000
Kashagawigamog Lake	10,000	Little Cedar Lake	10,000
Kushog Lake	10,000	Long Lake	10,000
Long Lake	$5,000 \\ 10,000$	Loon Lake (Chandos)	60,000 $30,000$
Moose Lake Paudash Lake	5,000	Mississauga Lake	20,000
Pine Lake	5,000	Oak Lake	15,000
Redstone Lake	35,000	Trout Lake	30,000
Ritchie's Lake	5,000	Twin Lake	10,000
Spruce Lake	5,000	Wolf Lake	10,000
-	0,000		20,000
Hastings:	20.000	Great Lakes:	
Baptiste Lake	60,000	North Channel	2,654,000
Bass Lake	15,000	Georgian Bay	960,000
Big Salmon Lake Burnt Lake	$\frac{10,000}{3,000}$	Lake Huron	640,000
Cedar Lake	10,000	Lake Ontario	1,860,000
Clear Lake	5,000		
Devil Lake	5,000	DINGEDI INGC	
Dickie Lake	7,000	FINGERLINGS	
Eagle Lake	30,000	Algoma:	
Gunter Lake	5,000	_	10.000
Jamieson Lake	5,000	Achigan Lake	$\frac{10,000}{5,000}$
Kaminiskeg Lake	10,000	Axe Lake	25,000
La Vallee Lake	5,000	Basswood Lake	42,500
Limestone Lake	5,000	Bevins Lake	10,000
Little Salmon Lake	20,000	Big Clear Lake	10,000
McKenzie Lake	5,000	Bull Lake	4,000
Robinson Lake	30,000	Burn Lake	5,000
Silver Lake	$\frac{10,000}{5,000}$	Canoe Lake	1,000
Trout Lake	5,000	Caribou Lake	5,000
wausworth Lake	5,000	Carry Lake	3,000
Lanark:		Chiblow Lake	30,000
Rideau Lake	60,000	Clear Lake (Scarfe)	5,000
Rob's Lake	5,000	Clear Lake (188)	5,000
Silver Lake	15,000	Cobri Lake	5,000
Dilver Dake	10,000	Coffee Lake	7,000
Leeds:		Cummings Lake	15,000 5,000
Charleston Lake	15,000	Deep Lake	5,000
Indian Lake	20,000	Diamond Lake	5,000
Red Horse Lake	15,000	Grey Trout Lake	10,000
Wolf Lake	20,000	Hawk Lake	10,000
	,000	Hobon Lake	10,000
Lennox-Addington:		Howard Lake	10,000
Buckshot Lake	30,000	Jobammeghia Lake	3,000
Elbow Lake	15,000	Lake of the Mountains	5,000

LAKE TROUT—Continued		Maple Lake	10,000
Almama Cantinuad		Moore Lake	5,000
Algoma—Continued	= 000	Oblong Lake Pine Lake	$5,000 \\ 10,000$
Little Chiblow Lake	5,000	St. Nora's Lake	5,000
Little Pickerel Lake Long Lake	$5,000 \\ 15,000$	Stocking Lake	5,000
Loon Lake	5,000	Stormy Lake	8,000
Madawonsing Lake	4,000	Twelve Mile Lake	5,000
Matinenda Lake	22,500	White Trout Lake	5,000
Miller Lake	4,000	Wolf Lake	7,000
Moon Lake	7,000	**	
Patton Lake	5,000	Kenora:	
Rackey Lake	5,000	Blue Lake	25,000
Rand Lake	10,000	Canyon Lake	30,000
Ranger Lake	$\frac{25,000}{35,000}$	Clearwater Pay (Lake of	5,000
Red Deer Lake	10,000	Clearwater Bay (Lake of the Woods)	50,000
Robertson Lake	10,000	Cul de Sac Lake	60,000
Sand Lake	10,000	Dogtooth Lake	30,000
Saymo Lake	15,000	Dryberry Lake	30,000
Spruce Lake	10,000	Eagle Lake	45,000
Tookenay Lake	50,000	Granite Lake	10,000
Trout Lake (Aweres)	5,000	Lake of Two Mountains	15,000
Trout Lake (24-R-62)	10,000	Little Vermilion Lake	15,000
Upper Island Lake	5,000	Mameigwess Lake	11,700
Wakomata Lake	$25,000 \\ 10,000$	Sturgeon Lake	$\frac{30,000}{20,000}$
white Lake	10,000	Thunder Lake Trout Lake	30,000
Bruce:		Vermilion Bay	25,000
Gillies Lake	15 000	Whitefish Bay (Lake of	20,000
Gilles Lake	15,000	the Woods)	40,000
Cochrane:			
Bigwater Lake	5,000	Manitoulin:	
Bobs Lake	5,000	Mantiowaning Bay	12,000
Mary Lake	5,000	West Bay	12,000
Nellie Lake	10,000	Marshaller	
Perry Lake	6,000	Muskoka:	
Remi Lake	20,000	Bella Lake	5,000
Three Nation Lake	5,000	Big Twin Lake	$1,000 \\ 10,000$
Watabeag Lake	10,000	Fairy Lake	5,000
Haliburton:		Fox Lake	5,000
	10.000	Lake of Bays	47,000
Big Bear Lake	$10,000 \\ 5,000$	Lake Joseph	15,000
Boskung Lake	15,000	Lake Muskoka	25,000
Bow Lake	5,000	Lake Rosseau	35,000
Clear Lake	5,000	Long Lake (Cardwell)	5,000
Crozier Lake	5,000	Long Lake (Chaffey)	1,000
Dack's Lake	5,000	Long Lake (Oakley) Loon Lake (Sinclair)	$\frac{5,000}{5,000}$
Deer Lake	10,000	Oxtongue Lake	5,000
Farquhar Lake	10,000	Paint Lake	10,000
Gull Lake	$\frac{10,000}{5,000}$	Peninsula Lake	5,000
Hall's Lake	5,000	Pine Lake	10,000
Hardwood Lake	5,000	Rebecca Lake	10,000
Hollow Lake	35,000	Skeleton Lake	20,000
Horseshoe Lake	10,000	Solitaire Lake	4,000
Kashagawigamog Lake	15,000	Stoney Lake	5,000
Kimball Lake	5,000	Surprise Lake Vernon Lake	$\frac{5,000}{10,000}$
Leaf Lake	5,000	vernon Lake	10,000
Little Bear Lake Little Boskung Lake	5,000	Nipissing:	
Little Hawk Lake	$\frac{5,000}{5,000}$	Ababika Lake	10.000
	0,000	Mounta Date	10,000

#### 

Value of Lake TROUT—Continued old by Market 10,000	Bergerounitake CAT. AAA. 5,000
Moore Lake 5,000	Blackfish Bay 10,000
Nipissing—Continued eded gnoldO	Center Lake hauding s10,000.
Bear Lake 978.1 95,000	Clear Lake, (55,000
Carney Lake 9% s.L & 810% 5,000	Cross Lake
Cedar Lake 94 s.J. 2013 5,000	Diamond Lake 10,000
Cross Lake 938.1 2015,000	Gun Lake 10,000
Diamond Lake 223.1. 9111 9v194,000	Long Lake (Radcliffe) 10,000
Dotty Lake 928 I MOTT 912,000	Pough Lake
Fatty Lake 12,000	Round Lake (Hagarty) 10,000
Herridge Lake 5,000	Round Lake (Lyell), 15,000
Jumping Caribou Lake 2,000	Round Lake (Richards) 10,000
Kaibuskong Lake	Tea Lake 20,000
Lake Timagami	Trout Lake 5,000
Martin Lake	Wadsworth Lake 10,000
Moore Lake 10. asia 11. vol. asia vii 5,000	Young Lake 10,000
Net Lake 5,000	<u>0</u> 0,01
Noble Lake 5,000	Simcoe:
Rib Lake 5,000	Kempenfeldt Bay 35,000
Spring Lake	Lake Simcoe
Talon Lake	13.90 to 12.00 to 13.90 to 13.00 to 13.
Tomiko Lake	Sudbury: And dans (ca.)
Wikstead Laker 5,000	Baby Lake
List. Vermilion halve 15,000	Black Lake 12351 10,000
	Cranberry Lake
Parry Sound:	Ella Lake 5,000
Bella Lake	Hunter Lake 5,000
Big Loon Lake 5,000	
Clear Lake	- 000/
Eagle Lake	Lamothe Lake
Bella Lake	Long Lake (Harrow) 4,000
Horseshoe Lake 5,000	16,000
nuglies Lake	Nolgon Lake 3 000
Lake Joseph	Noniwest Lake Size 15:000
Lake Rosseau 76H Anisa voli 45,000	Paging Take
Little Lake Joseph	Trout Lake (Coshy)
Lorimer Lake 25,000	Trout Lake (VeKim) 5.000
Memesagamesi Lake 18705,000.	Wananitei Lake 8.000
Otter Lake	Mesomikenda Lake 911,10,000 Nelson Lake 3,000 (Nepiwasy Lake 15,000 Racine Lake 5181 15,000 (Trout Lake (Cosby) 15,000 (Trout Lake (McKim) 16,000 (Wanapitei Lake 16,000 (Windermere Lake 16,000 (Windy Lake 16,000 (Windy Lake 16,000
Rankin Lake	Windy Lake
aRuth Lake	OUT. WITH TIME TO THE TOTAL TERRORIES
(Salmon Lake	mi i D
Sand Lake	
Spring Lake	Sturgeon River
Sucker Lake	Timiskaming: 94s.1 (04 s.11
Three-legged Lake 10,000	MAnima Nipissing Lake 20,000
Trout Lake See Secretary 15,000	
Twenty-eight Lake [45, 151, 165, 1 25,000	Beauty Lake
mark cuth cities in the market and in	Crystal Lake
Rainy River: cieffal a cal noo.l	Lady Evelyn Lake 20,000
Ash Bay (Rainy Lake) 50,000	Lake Timagami
Bad Vermilion Lake 50,000	Larder Lake 15,000
Burnt Lake 50,000	Long Lake
Height of Land Lake 30,000	Matachewan Lake 5,000
Kakagi Lake	McLeod Lake
Loon Lake	Net Lake
Narrow Lake	Pine Lake
Pipestone Lake	Trout Lake
Rainy Lake 3,900	Twin Lakes
Steeprock Lake	Wendigo Lake
	Little bear Like 5 un
Renfrew:	Great Lakes; sake ; salt Build
Bark Lake	Lake Superior 240. J. 1.71. 1,060,000

LAKE TROUT—Continued site 1818	Wellingtonino)-TTORT GRANDAR
Sales - Demonstration and propagation benefiting - eshal Laser	Saugeen River 1,200
North Channel 85 000	York:elle fake
North Channel         85,000           Georgian Bay         50,000	(Humber River 1971A. still still still)
Lake Huron SAZILEARY 3,111,000	Leng Loke (Deroche) = 7,000
Algoma:	Miscellaneous: Msoro mer
	Sales—Demonstration and
Achlgan TUORT WORKIAR 4,800 - 9,600	96.03 e
FINGERLINGS and a second	Tree Hiver 13500
Algoma: dest emaglica	KAMLOOPS TROUT
Basswood Lake A ban 15,000	YEARLINGS YEARLINGS
Batchawana River a.l. eve bear 7,000	EARLINGS
Big Garden River As. I and 8,000	Bruce:
Ocear Lake	Gillies Lake 4,000  Grey:
"Huston Lake opinitary, easyl is 5,000	0(60,000 -000 -000 -000 -000 -000 -000 -00
Johammeghia Lake 20,000	Grey:
Keegos Lake 30,000	Bass Lake
Loon Lake	Bass Lake
Mississauga River	Echo Lake 5,000
Montreal River	Red Chalk Lake 4,000
Rainbow Lake	(Rill Lake 4,000
Serpent River 8,000	Waseosa Lake
Snowshoe Creek 10,000	(608.02 Sound: x991) ; (608.02)
Thessalon River 948.1.11210 30,000	(Bernard Lake
06West Lake	(Poole Lake
Camp 2 Lake 2,400 Camp 8 River : : : : : : : : : : : : : : : : : : :	iel ('reek 10.000
O40.2 1. GL. S. Lake	terrison Lake 20,000
Office Like Streams Streams Lake 220 (Carlos Like Streams)	ATLANTIC SALMON A SECOND
Caribou Lakevidbur	FINGERLING 35,000
Ranid River Lake	Curray Crack 6,000 According the Bands (Control Algoma: Sales (Control Algoma: Cake Cake (Control Algoma)
Sandcherry Creek	Algoma: Sasa sni
Caribou Lake creek pool of the control of the creek pool of the control of the creek pool of the	Ranger Lake 9,935
Clear Lake 1.800	Durham:
Cotton Creek Sprilary 1,000	Durham:  Wilmot Creek Repril ms: 2,500
Cotton Creek 1,000	60gg Chiegg Again sine gat
Bruce: 9461 later 0  @Sauble River 9461.againm1,200	Frontenac
Darriel Luke 1500	Big Clear Lake 19VIII 1 5,000
Deer Lake inrallad	Simcoe: : headredman'
Nottawasaga River 9/6.1 81 3,000	(Kempenfeldt Bay
Pine River	r' 1 der Creek 46,000
Deiving Creek 3,000 Duna Creek <b>inigit</b>	Sudbury: Heard Projection
("St. Thomas City Reservoir 9 Mr. 1 od 500 (St. 1 Thomas City Rese	(Lake Penage
ogen momas City Reservoir.	(-100.5) $(-100.5)$ $(-100.00)$
Grey: deer all meyel?	SPECKLED TROUT
Sydenham River 918 1.200	DINCEPTINGS ()
1 st lake 4 sand 1 st lake 4 sand 1 st lake 4 sand 1 st lake 5 sand 1 st lake 5 sand 1	900,61 FINGERLINGS (91)
Haliburton:	Algoma
Burnt Lake	Achigan Creek 7,000
Hamburg Creek 1,600	Alona Bay Creek 7,000
(Ponds (Caledon Township) 77 of 1,000	Boundary Lake 14,000
Hawk Lake 2,400	Brown's Creek 2,500 Harmony Creek 3,500
Hayden Lake	Kashawong Creek
OKempenfeldt Bay 938 L usm 3,000	Lake One
Sturgeon River satal sata Partage neb 2,200	Lake Two

SPECKLED TROUT—Contin	nued	Miscellaneous:	
		Sales-Demonstration and	
Algoma—Continued		propagation purposes	2,200
Leslie Lake	7,000		
Little White River	14,000		
Loon Lake (Deroche)	7,000	YEARLINGS	
McCrea Creek	$\frac{3,500}{7,000}$	Algoma:	
Mica Bay Creek	7,000	Achigan Lake	4.800
Richards Creek	3.500	Agawa River	9,600
Two Tree River	3,500	Alva Lake	1,600
Williams Creek	7.000	Anjigami Creek	<b>1,6</b> 00
Woods Creek	7,000	Aubinadong Bay	3,000
		Aubinadong Lake	1,500
Durham:		Ausburn Lake	1,200
Beatty Creek	7,500	Baker Lake	3,200
Carscadden Creek	10,500	Batchawana River	19,200 600
Muldrews Creek	9,500	Beaver Lake (Parkinson)	1,600
Quantreuil Creek	7,500	Beaver Lake (#2 Tp.) Black Lake	1,200
Roy Mercer Creek	9,500	Blue Lake	1,400
Trews Creek	7,500	Blueberry Lake	1,200
a		Boyles Creek	1,200
Grey:		Bridge Lake	1,500
Boyd Lake	20,000	Bulgers Lake	2,400
Christie Creek	5,000	Bull Lake	1,000
Copps Lake	20,000	Burns Lake	3,000
Cotter Creek Craig Creek	$7,000 \\ 7,000$	Burrough Lake	2,400
Deer Creek	5,000	Caldwell Lake	800
Eel Creek	10,000	Camp 2 Lake	$\frac{2,400}{3,200}$
Harrison Lake	20,000	Camp 23 Lake	2,000
Kreig Lake	8,000	Canoe Lake	1,200
Louisa Creek	5,000	Caribou Lake	2,500
Louisa Lake	35,000	Carpenter Lake	4,800
Murray Creek	6,000	Cedar Creek	2,400
Pine Lake	20,000	Chiblow River	1,600
\''		Chippewa Creek	31,600
Nipissing:		Clear Lake	1,800
Balsam Creek	7,500	Copp Lake	3,200 $1,000$
Doran's Creek	7,500	Cotton Creek Crystal Lake	600
Duschene Creek	6,150	Cummings Lake	600
North River	7,500	Darriel Lake	1,600
Nonthumbonland		Deer Lake	1,500
Northumberland:	<b>45</b> 000	Devils Lake	1,200
Big Creek	15,000	Dougal Lake	4,800
Burnley Creek Dartford Creek	$46,000 \\ 25,000$	Driving Creek	3,000
Dawson Creek	36,000	Dunns Creek	3,000
DeLong Creek	26,000	Echo Lake (Grasett)	2,400
Heffernan Creek	10,000	Echo Lake (R. 62)	1,350 2,400
Hortop-Prentice Stream	10,000	Eleven Mile Creek Elizabeth Lake	1,200
Little Cole Creek	15,000	Fern Lake	4,800
Mills Creek	3,000	Fish Lake	2,300
O'Grady Creek	20,000	Foot Lake	1,600
Quinn Creek	6,000	Grassy Lake	1,200
Robin Creek	3,500	Hamburg Creek	1,600
Sandy Flats Creek Valleau Creek	$20,525 \\ 5,000$	Harmony Creek	2,700
West's Creek	5,000	Harris Creek	800
COLD CACCAL	0,000	Hawk Lake	2,400
Thunder Bay:		Hayden Lake	$\frac{2,400}{4,800}$
Hensis Lake	2,000	Hidden Portage Lake	4,800
	-,000		,

100

Formosa Pond .....

## SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1st, 1940, to March 31st, 1941—Continued

SPECKLED TROUT-Continu	ued	Reserve Lake	1,500
		Robertson Lake	3,200
Algoma—Continued		Rock Lake (Aweres)	2,000
High Bank Lake	1,400	Rock Lake (Wells)	1,200
Hoath Lake	1,600	Rock Lake (168)	1,200
Hobon Lake	4,800	Root River	600
Horn Lake	1,600	Rose Marie Lake	2,400
Horseshoe Lake (1 C.)	1.200	Round Lake (Grasett)	1,200
Horseshoe Lake (R. 62)	1,350	Round Lake (Whitman)	2,400
Hubert Lake	4,800	Round Lake (1 A.)	1,600
Island Lake (McMahon)	3,200	Sand Lake Creek	4,800
Island Lake (R. 176)	3,000	Sand River	2,400
Jewel Lake	1,600	Sauble Lake	4,000
Jimmie Lake	3,200	Sausabic Lake	1,200
Jobammeghia Lake	4,800	Saymo Lake	4,500
Karkowan Creek	1,200	Scarbo Lake	1,200
Kendogami River	7,200	Sharp Sand River	2,400
Lafoe Creek	2,400	Shumka Lake	1,200
Lake One	500	Snowshow Creek (188)	1,600
Little Thessalon River	2,400	Speckled Trout Creek	2,400
Little White River	2,400	Speckled Trout Lake (1 A.)	4,800
Lonely Lake	1,200	Speckled Trout Lake	
Long Lake (McDonald)	1,200	(28-R-14)	3,200
Long Lake (R. 168)	1,200	Speckled Trout Lake (176)	1,500
Loon Lake (Near Thessalon)	3,200	Spring Creek	1,600
Loon Lake (24 R. 13)	1,600	Spring Lake (1 F.)	1,500
Loon Lake (R. 62)	1,250	Spruce Lake	4,800
Loonskin Lake	4,000	Stokely Creek	5,400
Lower Pine Lake	2,500	Tamarack Lake	2,400
Mader Lake	2,400	Tawabinasay Lake	4,800
Mashagama Lake	2,400	Tea Lake (near Thessalon)	3,200
Matinenda Lake	1,800	Tea Lake (1 A.)	800
Maude Lake	1,200	Thessalon River	4,800
Maunshe Megoose Lake	3,200	Tookenay Lake	2,500
McCormick Lake	2,400	Triple Lake	1,600
McKinnon Creek	3,000	Trout Lake (Aweres)	1,200
McVeigh Creek	2,400	Trout Lake (25 R. 14)	2,400
Merchants Lake	2,500	Trout Lake Inlet	100
Michipicoten River	9,600	Twin Lakes (Deroche)	1,200
Mile 58 Lake	1,200	Twin Lakes (1 B.)	2,000
Mileage 48 Lake	300	Twin Lakes (176)	3,000
Mongoose Lake	4,800	Two Dollar Lake	800
Montreal River	2,400	Upper Pine Lake	3,300
Moores Lake	2,400	Upper Silver Creek	500
Moose Lake (Wells)	1,000	Wallace Lake	800
Moose Lake (25 R. 13)	4,800	Wawa Lake	4,800
Mountain Lake (Aberdeen)	1,600	Wartz Lake	4,800
Mountain Lake (Gould)	1,600	White Creek	1,700
Mud Lake	1,600	White River (2 A1 B.)	4,000
Newcomb Lake	3,750	White River (176)	3,000
Odowbi Lake	1,600	Wolf Lake	900
Osborne Creek	4,800	Wonashin Lake	2,400
Pine Lake (25 R. 13)	1,600	Woods Creek	1,500
Pinkney Lake	2,400	P	
Pond Lake	1,200	Brant:	
Prospect Lake	3,200	Mill Pond	500
Rand Lake	1,600	Scotland Creek	500
Ranger Lake	500		
Rapid River	2,400	Bruce:	
Reception Lake	2,400	Angle Creek	900
Red Deer Lake	1,000	Crowes Creek	900
Red Rock Lake	1,200	Falconer's Creek	200
D. 11 0 1			4.0.0

1,200

Reed's Creek .....

1668 1 SPECKLED .TROUT—Continued	Robbini Creek-T.YOAT. 49.14.73 921,200
ertson ohe 3.250	Smith Creek 1,000
Bruce—Continued (Aw : C) bauninon—sun	oodroma—Continued Assert memorator
Judge's Creek(81.577). 9484 15 2,700	600 Sowper Stream Some fight 600
Mullin's Pond!3311. 946.1 4911,200	OO Squirrel Creek Hot dis 2,800
Nine Mile Creek 1971 10 1,400	Thompson Creek Hed node 600
Silver Creek 17. 2.75. 2.3,000	Tyrone Creek
Spring Creek (Avon) D. Stall barro 100	and Darlington; townships 39 To 4,850
Spring Creek (Carrick) 240-1 bruct 500	Wirtues Creek
1005 29973 5001 1907	Island Lake ( Alabon) 3.200
Robe Lake 9xel elduc 500	Plack Crook Jast 1979 1900
Bristol Creek 9ASI Sidea: 2,000	Camp Lake
Croft Creek 9ABJ omv 1.000	Chambers Lake
Crooked Creek 9ABL OCIE 1,000	Grindstone Lake A 3917 HSWO X 101 600
Cochrane:  Bobs Lake  Bristol Creek  Croft Creek  Crooked Creek  Dandurant Creek  Bissol Creek  Cocked Creek  Bissol Creek  Crooked Creek  Cocked Creek  Coc	Little Mississippi Creek Mississippi Creek Mississippi
Elesco Lake	Lucky Lake
Fakey Lake	Mackie Lake
Hulham Creek 1,000	McCausland Lake 91119,600
Croves Lake Saki Joot belaced 500	Reid Lake
Halfway Creek (£1-R-82) 1 000	Good Lake District Sal Burken
Hersey Lake Sand Inoil belaca 500	Schooner Lake (301 31) SLI 2002 400
Hooker Creek Hoor garagoon	Sharbot Creek (5 %) AsJ 110(3,000
Horseshoe Lake Basi gnitt 000	Frontenac:    Wall law 1 200
Jacob Creek985.1. BURIT 500	Trout Lake
Jean Lake Assis Viskos 500	Unnamed lakes in Miller distanced
Lake of Bays 9181 VESSI down Noon	Only 2 township 2782 2860 1 Jake
Legare Creek 1000	111/4
Little Paradise Creek 1) 9861 6000	Grey:
MacDonald Lake	(h) Bass Lakeis. J. gans 1,000
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Luxton Creek 1,000	Lawrence -Creek4.6.J
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Mercer Creek	000MacLean's Lake
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E bounitnod ÷TUORT dalka 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bartlett (Creek 10%T, UFLE) 177 1,200
Grey—Continued	Bob Whyte Lake 800 Brett Lake
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oo Fraser Lake	60 Shire Creek
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00 Otter Lake	Middleton Creek, A991 111,200
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	Unnamed streams in Wawa 1
(i) redstone; hiver; -, -, -, -, -, -, -, -, -, -, -, -, -,	and Turnberry
Round Lake	()(t) (townships, 1,150
00 Slipper Lake	(iii) Young Creek
Twin Lakes	Kenora:
	***** **** **** * **** * * * * * * * *
Aranthus Lake 1.000 Baby Joe Lake :sgnitseH	OnCedar Bough Lake
Raby Joe Lake	Dryberry River 2,000
0088 aver Jake	Little Vermilion Lake: s/o:4,500
Samon and Samon and Samon	00 Silver Lake

SPECKLED TROUT—Continued		Beaver Creek	3,600
		Bella Lake	7,200
Lanark:		Big East Lake	3,600
Bottle Lake	500	Big East River	32,600
Craig Creek	750	Bird Lake	3,600
Green Lake Creek	750	Black River	7,200
Long Sue Creek	1,500	Buck Lake and tributaries	7,200
Paul Creek	3,200	Clear Lake (Oakley)	2,400
		Clear Lake (Ridout)	3,200
Leeds:		Clear Lake (Sinclair)	2,400
Camden Lake	600	Coopers Lake	3,600
	000	Daley Creek	1,800
Lennox-Addington:		Deep Lake	1,800
_	1 000	Dog Lake	1,800
Bear Creek	1,000	Dotty Lake	1,800
Beaver Creek	4,800	Eastails Lake	1,200
Brown Lake	3,600	Echo Lake	13,200
Buckshot Creek	2,400	Fairy Lake and tributaries	13,200
Burns Lake	2,400	Fox Lake and tributaries	10,000
Conner Lake	2,400	Fraser Lake	800
Copeland Lake	2,400	Gull Lake	3,200
Dafoe Lake	2,400	Heck Lake	3,600
East Lake	2,400	Helva Lake	1,800
Feeny's Lake	1,000	Island Lake	. 1,600
Flake Lake	800	Jessops Creek	1,800
Green Lake	5,400	Lake of Bays	9,000
Hyde Creek	3,200	Little East River	23,200
Kilborn Lake	1,600	Long Lake (Cardwell)	2,400
King Lake	4,800	Long Lake (Chaffey)	1,800
Leather-root Lake	800	Long Lake (Ridout)	1,600
Long Lake (Abinger)	600	Loon Lake	3,600
Long Lake (Ashby)	2,400	Loon Lake Creek	3,600
Long Lake (Effingham)	1,200	Loon Lake Outlet	1,800
MacKenzie Lake	1,200	Martin Lake	2,400
Mallory Lake	1,600	Mud Lake	1,800
Ratten Lake	4,800	Muskoka River	26,400
Rock Lake (Abinger)	1,600	Muskoka River Bay	3,200
Rock Lake (Denbigh)	800	Penfold Lake and tributaries	3,600
Rock Lake (Effingham)	2,400	Peninsula Lake and	
Roses Lake	800	tributaries	19,600
Shiner Creek	1,200	Pine Lake	2,400
Smith Lake	2,400	Poverty Lake	1,800
Snake Creek	3,000	Rat Lake	3,600
Thirty Island Lake	2,400	Rebecca Lake	7,200
Twin Lakes	600	Red Chalk Lake	6,000
White Lake	4,800	Rill Lake	4,800
		Rosseau Lake Bay	1,200
Manitoulin:		Shoe Lake	3,200
Badgerow Creek	6,000	Skeleton Lake	6,200
Barr Creek	3,000	Skeleton River	4,000
Blue Jay Creek	25,000	Solitaire Lake	3,600
Bonnie Doone Creek	2,000	Split Rock Lake	1,800
Eighteen Lake	2,000	Spring Lake	2,400
Hare Creek	1,000	Three Mile Lake Creek	800
Kagawong River	1,000	Turtle Lake	3,600
Manitou River	25,000	Vernon Lake and tributaries	19,600
Mindemoya River	20,000	Waseosa Lake	3,600
Norton Creek	7,000	Wolf Lake	2,400
Silver Creek	6,000		
Spring Bay Creek	9,000	Nipissing:	
Srigley Creek	5,000	Acanthus Lake	1,000
-		Baby Joe Lake	500
Muskoka:		Beaver Lake	350
Axe Creek	3,600	Big Balsam Lake	1,500
	·		

SPECKLED TROUT—Contin	ued	Little Trout Lake	250
20 -		Long Lake	2,000
Nipissing—Continued		Long Spur Lake	250
Big Mink Lake	1,400	Madawaska River	500
Big Spring Lake	<b>3,5</b> 00	Magee Creek	1,200
Birch Lake	250	McIntosh Lake	1,500
Blue Lake	<b>1,5</b> 00	Moon Lake	3,000
Blueberry Lake	2,100	Moose Lake	1,000
Bonanza Lake	250	Mosquito Creek	3,000
Bonnechere River	1,000	Mountain Lake	1,000
Brock River	1,200	Muskosung Lake Stream	100
Broom Lake	1,000	Noble Creek	350
Brule Lake	500	North Lake	750
Buck Lake	500	North River	6,507
Burnt Island Lake	2,000	Opeongo Lake	3,000
Cache Lake	3,000	Opinicon Creek Oxtongue River	3,500
Camp Lake	1,200	Petawawa River	$\frac{3,000}{500}$
Canisbay Lake	500	Price Lake	3,500
Canoe Lake (Peck)	2,000	Ravineau Lake	500
Canoe Lake (Widdifield)	1,400	Robitaille Lake	500
Carcajou Lake	500	Round Lake	500
Carney Lake	1,500	St. Andrew Lake	1,000
Cedar Lake	$\frac{850}{1,000}$	Shanty Lake	1,000
Clear Lake (Boulter)	1,000	Shirley Lake	500
Clear Lake (Chambers)	1,000	Snake Lake	2,000
Clear Lake (Gladman)	1,400	Source Lake	1,000
Clear Lake (Notman)	1,400	South Tea Lake	1,000
Clearwater Lake (Pentland).	1,000	Speckled Trout Lake	500
Coon Lake	500	Spring Lake (Gooderham)	2,100
Crooked Lake	2.800	Spring Lake (Sisk)	3.000
Cutler Lake	2,100	Sproule Lake	250
Daly Lake	500	Stoney Creek	1,400
Desrochers Lake	250	Sundash Lake	250
Devils Lake	1,000	Sunday Lake	250
Duchesne Creek	1,500	Tanamakoon Lake	1,000
Eighty Acre Lake	1,500	Trout Lake (Parkman)	2,700
Ethel Lake	2,100	Turtle Lake	1,000
Eva Lake	1,400	Twenty Minute Lake	5,100
Finlayson Lake	3,500	Two Rivers Lake	2,000
Four Mile Creek	7,000	Unnamed Lake (Niven)	250
Fourney Lake	2,400	Unnamed Lake (White)	250
Galeairy Lake	2,000	Welcome Lake	1,000
Gauthier Lake	1,000	Whitefish Lake	1,000
Gilmour Lake	1,000		
Gooderham Lake	3,500	Norfolk:	
Grand Lake	1,000	Kent Creek	1.200
Green Lake	500	Mineral Creek	500
Head Lake	500	Trout Creek	600
Jacks Lake	250		
James Creek	1,500	Northumberland:	
Jimmie Lake	1,200		4.000
Jocko River	7,500	Baltimore Creek	4,900
Joe Lake	1,000	Burnley Creek	2,400
Kioshkoqui Lake	1,000 7,750	Cavan Stream	8,600
L'Amable Creek	$\substack{7,750\\500}$	Chidley Creek Dartford Creek	$\frac{1,300}{1,600}$
Latrey Lake	3,500	Dawson Creek	3,000
Laveille Creek	500	DeLong Creek	800
Little Island Lake	1,000	Duncan Creek	800
Little Madawaska Lake	500	Lakeport Creek	1,500
Little McAuley Lake	500	Mill Creek	800
Little Mink Lake	1,400	Mount Pleasant Stream	4,200
Little Otter Lake	1,400	O'Grady Creek	2,400
		•	

SPECKLED TROUT—Contin	ued	Maganetawan River	14,100
		McCullough Creek	2,800
Northumberland—Continued		McQuoid Lake	1,000
Pegman Creek	3,400	Otter Lake	1,400
Quinn Creek	1,600	Owl Lake	500
Robin Creek	800	Paisley Lake	$\frac{1,400}{1,400}$
Sandy Flats Creek	1,600	Poole Lake	1,500
Valleau Creek	800	Rat Lake	1,300 $1,250$
		Rock Lake	1,200
Ontario:		Round Lake	500
Bickle Creek	1,500	Roussell Creek	800
Black Creek	600	Sand Lake (Ballantyne)	700
Elgin Park Pond	600	Sand Lake (Proudfoot)	1,500
McLean Creek	1,000	Seguin River	1,500
Thompson's Spring Creek	2,000	Shadow River	1,200
		Shells Lake	500
Parry Sound:		Smith Creek	2,800
Barrett Creek	3,000	Stewart Creek	1,000
Barton Creek	2,800	Stirling River	2,400
Bernard Lake	2,800	Surprise Lake	2,500
Big Clam Lake	1,000	Tee Lake Creek	500
Big Loon Lake	1,500	Three Mile Creek	500
Black Creek (Gurd)	1,000	Three Mile Lake	1,900
Black Creek (Strong)	1,400	Williams Lake	1,500
Black Lake	3,600		
Bradford Creek	1,000	Peel:	
Cacheman Creek	1,500	Credit River	6,200
Cheer Lake	1,400	Smith Creek	1,200
Clear Lake (Armour) Clear Lake (Laurier)	900	Watson Creek	1,200
Clear Lake (Perry)	$\frac{1,000}{1,000}$	<b>5</b>	
Clear Lake Creek	500	Perth:	
Crozier Lake	1,000	Avon River	1,500
Cummings Lake	1,000	Fullerton Creek	500
Darlington Lake	1,000	McKnight Stream	1,500
Deer Lake	1,250	5.1	
Deer Lake Creek	500	Peterborough:	
Depot Creek	1,400	Archer Creek	200
Distress River	2,800	Big Ouse River	8,400
Eagle Lake	2,800	Birdsall Creek	3,200
East Creek	1,200	Buchanan Creek	3,200
Edgecombe Creek	1,400	Carvers Creek	$\frac{2,800}{8,000}$
Fagan Creek	1,300	Cavan Stream	3,200
Fisher Lake	1,500	Deer Bay Creek Deer River	1,200
Fleming Lake	1,400	Dunbar Creek	1,600
Forest Lake	1,400	Eel Creek	8,600
Forsythe Lake Franks Lake	500	Harding's Creek	800
Genesee Lake	$\begin{array}{c} 500 \\ 3.000 \end{array}$	Jack's Creek	3,200
Gull Lake	2,100	Little Ouse River	5,400
Ham Lake	2,800	Millbrook Stream	1,000
Hammel Creek	500	Mississauga River	6,400
Happy Lake Creek	1,200	Mount Pleasant Stream	3,200
Horn Lake	1,000	Plateau Creek	8,250
Island Lake Creek	1,000	Sophies Creek	1,000
Jack's Lake Creek	1,000		
James Creek	2,000	Renfrew:	
Jordon Creek	2,000	Angling Lake	800
Little Lake	500	Annie Lake	1,500
Little Pickerel Lake	2,500	Barry Lake	800
Long Lake (Perry)	5,800	Battery Lake	500
Lynx Lake	1,000	Bear Lake	2,500
Madill Creek	500	Belanger Lake	800

SPECKLED TROUT—Continued		School Crock	500
Renfrew—Continued		School Creek Scott Creek	$\frac{500}{1,000}$
Bergeron Lake	1,000	Siroski Creek	1,200
Big Round Lake	1,000	Smith Creek	1,000
Bissett Creek	3,000	Snake Creek	1,000
Black Lake	2,000	Spring Creek	1,000
Black Donald Lake	1,000	Stewart Creek	1,000
Brennan Creek	1,000	Sullivan Lake	1,200
Burns Lake	3,000	Toohey Lake	1,500
Byers Creek	3,000	Trout Lake (Head)	1,000
Clarkes Creek	1,000	Trout Lake (Raglan)	1,000
Cochrane Creek	4,200	Tucker Creek	1,200
Colton Creek (Admaston)	500	Turner Creek	1,000
Colton Lake	3,500	Twin Lakes	4,500
Constant Creek	1,500	Unnamed Lakes (Vicinity of	1 000
Costello Creek	1,000	Griffith)	1,200
Coulton Creek (Matawatchan)	1,500	Wadsworth Creek	500
Cranberry Lake	1,000	Wendigo Lake	$\frac{3,000}{250}$
Crooked Lake Creek	1,000	White Lake Creek	4,000
Cross Lake	3,000	Zielany Lake	1,500
Crotch Lake	1,000	Zielany Lake	1,500
Crozier Creek	3,500		
Deer Lake Deux Rivieres Creek	$1,500 \\ 1,500$	Simcoe:	
Devils Lake Creek	1,000	Black River	1,000
Diamond Lake Creek	1,000	Boyne River	3,000
Dodge Lake	500	Colwell Creek	1,000
Dominic Lake	2,000	Hill Creek	1.000
Elmer Lake	800	Mathewson Creek	3,000
Finley Creek	1,000	Willow Creek	1,500
Gardez Pieds Creek	1,000		
Geen Lake	1,000	Sudbury:	
Grant Creek	1,250	Austin Lake	3,000
Greenan Lake	1,500	Awry Creek	10,000
Hamwolds Creek	1,000	Bailey Creek	15,000
Hart Lake	1,000	Bertrand Creek	7,500
Harvey Creek	1,000	Clear Lake	15,000
Helmers Lake	1,000	Clearwater Lake Creek	15,000
Heney Creek	1,250	Cold Spring Creek	10,000
Hughey Lake	1,000	Coniston Creek	17,500
Indian River	4,000	Crystal Lake	5,000
Jerry Lake	500	Devil Lake Creek	10,000
Josie Creek	1,000	Dublin Creek	500
Kelly Lake Creek	1,000	Ella Lake	7,500
Leckie CreekLittle Madawaska River	1,000	Emery Creek	$10,000 \\ 10,000$
Little Mason Lake	$\substack{3,000\\200}$	Farm Lake	5,000
Little Spring Creek	250 250	Fournier Creek	15,000
Locksley Creek	1,000	Fox Lake	1,250
Long Lake (Lyell)	2,000	Garson Creek	6,000
Long Lake Creek (Griffith)	1,000	Geneva Creek	15,000
MacKay Creek	1,000	Goodwins Lake	4,500
Mares Lake	500	Green Lake	10,000
McCool Lake	1,000	Hunter Creek	1,000
McDermid Creek	1,000	Johns Creek	30,000
Nadeau Creek	500	Johnston Creek	10,000
Paugh Lake	3,000	Junction Creek	7,500
Pichette Creek	500	Karl Creek	4,000
Quadville Creek	1,000	Landlocked Lake	1,250
Red Pine Lake	500	McLanders Creek	15,000
Rockingham Creek	3,000	McLeod Creek	7,500
Rocky Lake	2,500	Nelson River	8,000
Round Lake and Creek	1,300	Post Creek	4,000

SPECKLED TROUT—Contin	nued	Grassy Lake	4.000
		Gravel River	13,200
Sudbury—Continued		Half Moon Lake	3,000
Poulin Creek	15,000	Hay Lake	2,500
Pumphouse Creek	30,000	Hazelwood Creek	7,000
Rapid River	15,000	Hogan Lake	2,000
Rock Lake	2,000	Hornblende Lake	1,200
Round Lake	500	Indian Lake	1,000
Round Lake (Borden)	10,000	Inwood Lake	1,250
Sandcherry Creek	10,000	Island Lake	3,000
Sauble River	45,000	Jackpine River	4,000
Second Lake	3,000	Jim's Lake	2,000
Shoal Lake Creek	1,000	Kaministiquia Lake	5,000
Spring Creek	10,000	Knobel Lake	5,100
Sprout Creek	15,000	Krumle Lake	5,800
Storehouse Creek	2,000	Langley's Creek	2,000
Trout Lake	3,000	Le Sarge Lake	2,000
Trout Lake Creek	6,000	Little Lake	1,200
Unnamed Lake (Hoskin Tp.)	2,000	Little Partridge Lake	2,400
Unnamed Lake (Morgan)	17,500	Little Whitefish River	3,000
Veuve River	30,000	Loftquist Lake	15,000
Waddell Creek	7,500	Loon Lake	23,000
Wanapitei Lake	10,000	Lost Lake	2,400
Wavy Creek	10,000	Love Island Lake	1,200
West Lake	2,500	Lower Pass Lake	6,000
Windy Creek	20,000	Lukinto Lake	2,000
Thunden Dom		Lynx Lake	1,800
Thunder Bay:		Maggot River	4,400
Ada Lake	1,000	McIntyre Creek	7,000
Alt Lake	2,000	McIntyre River	6,000
Anderson Lake	3,000	McKenzie River	4,000
Anne Lake	1,000	McLean Creek	2,400
Arnold Creek	3,000	McVicar Creek	4,000
Arrow River	4,000	Mine Lake	4,200
Bass Creek	6,000	Mink Lake	3,600
Bat Lake	5,000	Mirror Lake	3,000
Bear Lake	1,750	Moose Creek	2,000
Bear Trap Lake	6,850	Moose Lake	3,500
Beaver Dam Creek	4,800	Mountain Lake	4,000
Big Duck Lake	3,000	Neebing River	17,800
Billy Creek	4,500	Nipigon River	55,600
Birch Grove Lake	1,500	Nishin Lake	$9,650 \\ 7,000$
Bishop Lake	1,500	Oliver Lake One Isle Lake	1,000
Blend Creek	4,000	Ozone Creek	4,750
Bluff Lake	2,000	Park Lake	4,000
Brule Creek	10,000	Parsons Lake	2,900
Buckaday Lake	3,000	Partridge Lake	4,900
Cavern Creek	1,500	Pass Lake	5.000
Cedar Creek	$2,600 \\ 25,000$	Peach Lake	4,200
Charlotte Lake	4,800	Pearl River	15,000
Coldwater River	20,300	Pitch Creek	18,400
Corbett Creek		Rainbow Lake	2,000
Cousineau Dam	5,000 $5,000$	Range Lake	1,200
Couture Lake	1,500	Reed Lake	2,000
Current River	20,000	Ring Lake	1,000
Dan's Lake	1,200	Ringer Lake	1,000
Dublin Lake Creek	500	Rope Lake	4,000
Fall Lake	2,000	Ross Lake	2,400
Fire Lake	2.000	Selim River	2,000
Firesteel River	5,000	Setting Duck Lake	3,000
Florence Lake	1.500	Shoepack Lake	3,600
Fraser Creek	6,000	Silver Creek	2,000
Golden Gate Lake	1,000	Silver Islet Creek	2,000

SPECKLED TROUT—Contin	ıued	Victoria:	
		Corbin Creek	200
Thunder Bay—Continued		Crego Creek	1,600
Spar Lake	2,000	Union Creek	1,500
Spring Creek (Dorion)	8,700		,
Spring Lake (Leduc)	7,000	Waterloo:	
Squaw Creek	4,000	Bamburg Stream	2,400
Star Lake	2,000	Elora Creek	2,000
Stillwater Creek	1,000	Erbsville Creek	1,200
Strawberry Creek	7,000	Mannheim Creek	600
Sturgeon River	2,000		
Surprise Lake	4,000	Wellington:	
Three Mile Lake	3,000	Bell's Creek	900
Tomlinson Lake	1,250	Credit River	1,200
Trout Creek (Lyon)	4,000	Mallot's Creek	500
Trout Creek (McTavish)	$\substack{700 \\ 2,000}$	O'Dwyer's Creek	300
Trout Creek (Nipigon)	26,000	Ospring Creek	600
Trout Lake (Gorham, etc.)	22,000	Saugeen River	1,200
Trout Lake (Stirling) Tujack Lake	2,000	Stanley Park Stream	300
Twin Lakes	5,500	** .	
Uncle Tom's Lake	2,400	York:	
Unnamed Creek (Dorion)	1,000	Doan's Pond	300
Unnamed Lake (Eva)	2,000		
Upper Pass Lake	6,000	Miscellaneous:	
Wabasta Lake	3,000	Sales-Demonstration and	
Walker Lake	8,150	propagation purposes	13,207
Whitefish River	8,000		,
Whitewood Creek	13,600		
Wideman Lake	3,000	ADULTS	
	•,•••		
Timiskaming:		Algoma:	
Belle Isle Lake	1,200	Garden River	1,000
Boston Creek	1,000	Heyden Lake	400
Butler Lake	1,000	Lower Island Lake	350
Charlotte Lake	2,000	Root River	4,650
Crooked Creek	1,000	Upper Island Lake	750
Crystal Lake (Bayly)	1,500		
Crystal Lake (Lebel)	2,000		
Emerald Lake	2,400	WHITEFISH FRY	
Fairy Lake	1,000		
Gleason Creek	1,200	Kenora:	
Graham Creek	1,500	Eagle Lake	1,000,000
Jean Baptiste Lake	1,000	Portage Bay	2,000,000
Largreaves Lake	1,000	Separation Lake	500,000
Latour Creek	1,200	Lake of the Woods	35,105,000
Leacock Creek	1,000		
Little Otter Lake	1,500	Manitoulin:	
Loon Lake	1,200	Lake Manitowaning	1,000,000
Mearow Lake	1,000	8	_,,
Moffat Creek	1,000	Prince Edward:	
Mousseau Lake	1,000	Bay of Quinte	20 000 000
Pike Creek	1,200	Bay of Quinte	9,000,000
St. Anthony Creek	1,000	Dalass Dissess	
Sink Hole Lake	500	Rainy River:	
Spring Creek	1,200	Rainy Lake 2	8,000,000
Spring Lake	3,000		
Stock Lake	2,000	Simcoe:	
Twin Lakes	3,000	Lake Simcoe	1,500,000
Wabi Creek	1,000		. ,
Wapoose Creek	500	Thunder Bay:	
Welcome Lake	1,000	Lake Nipigon	500,000
	-,	and impigor	000,000

Great Lakes:

## SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1st, 1940, to March 31st, 1941—Continued

#### WHITEFISH FRY—Continued

Lake Superior       15         North Channel       23         Georgian Bay       62         Lake Huron       43         Lake Erie       91         Lake Ontario       8	,040,000 ,322,000 ,460,000
HERRING FRY	
Frontenac:	
Brule Lake Camp Lake	300,000 200,000
Haliburton:	
Drag Lake	250,000 250,000
Hastings: Salmon Lake Weslemkoon Lake	250,000 350,000
Lanark: Dalhousie Lake	250,000
Leeds: Rideau Lake	750,000
Lennox-Addington:	100.000
Little Weslemkoon Lake Otter Lake	100,000 200,000
White Lake	100,000
Peterborough:	
Jack's Lake	250,000
Trout Lake	250,000
Prince Edward:	

Bay of Quinte ..... 2,900,000

Nottawasaga Bay ...... 7,750,000

Windy Lake ..... 500,000

 North Channel
 1,500,000

 Georgian Bay
 1,000,000

 Lake Erie 29,650,000

 Lake Ontario
 2,250,000

Sudbury:

Great Lakes:

APPENDIX No. 2
DISTRIBUTION OF FISH ACCORDING TO SPECIES—1936 TO 1940, INCLUSIVE

	1936	1937	1938	1939	1940
Large-mouthed Black Bass					
Fry	45,000 8,398	135,000 4,120 92	57,500 8,061	1,890 497	230,000 5,500 152
Small-mouthed Black Bass					
Fry Fingerlings Yearlings & Adults	780,000 69,380 5,202	1,275,000 141,900 5,893	804,000 169,800 7,738	1,386,000 226,325 7,739	2,512,500 449,154 1,671
Maskinonge					
Eyed Eggs Fry Fingerlings	274,000	420,700	2,005,000	120,000 2,675,000 1,300	2,345,000 2,333
Perch-Fry	46,080,000	9,150,000	59,150,000	72,360,000	13,000,000
Pickerel (Yellow)					
Eyed Eggs Fry Adults	2,000,000 300,759,500	2,000,000 263,743,400	2,012,500 271,567,500	7,000,000 327,500,000	2,000,000 393,887,000 100
Pickerel (Blue)					
Fry		1,000,000	500,000		
Brown Trout					100 70
Fingerlings Yearlings	147,050 7,290	97,484	59,592*	29,954 375,070	182,725 252,000
Lake Trout					
Eyed Eggs Fry Fingerlings	3,209,400 4,165,000 18,253,244	3,225,000 4,667,000 15,782,350	2,437,000 7,665,000 10,575,200	1,845,850 7,236,900 9,964,400	575,000 7,564,000 7,312,100
Atlantic Salmon					
Fry Fingerlings Yearlings		7,200	4,800		46,385
Rainbow Trout					
Fingerlings	133,000	105,240	321,600	109,635	298,420
Yearlings	3,507		6,727	23,145 1,009	19,724
Kamloops Trout					
FingerlingsYearlings		80,000	25,821	105,000	26,500
Speckled Trout					
Eyed Eggs	28,600 182,000		1,000		
Fingerlings Yearlings Adults	1,053,050 557,270 6,081	384,725 1,167,073 16,150	373,314 2,083,538 4,452	337,000 2,976,559 6,315	611,375 3,278,114 7,156
Whitefish					
Eyed Eggs Fry	112,500 428,402,000	4,000,000 383,683,900	323,700,500	326,657,000	403,339,00
Herring					
Eyed Eggs	56,120,000	30,000 5,270,000	49,725,000	38,550,000	49,050,00
Miscellaneous		3,053	,	41	
TOTALS	862,401,472	696,395,280	733,265,643	799,496,629	886,995,90

<sup>\*</sup> Yearlings and adults

#### **APPENDIX**

#### GAME AND FISHERIES

Statistics of the Fishing Industry in the Public Waters of

#### EQUIP

District	No. of Men	f Tugs			asoline unches		and Boats	Gill Nets		
		No.	Tons	Value	No.	Value	No.	Value	Yards	Value
Northern Inland Waters Lake Superior North Channel Georgian Bay Lake Huron Lake St. Clair Lake Erie Lake Ontario Southern Inland Waters		10 6 16 15		54,400 36,700 109,500	109 48 131 100 42	\$ 71,170 43,735 24,825 122,860 75,040 12,025 193,435 107,420 2,107	276 53 47 120 27 71 130 115 82	\$ 8,843 3,735 2,455 5,392 1,377 3,605 11,415 4,050 2,783	987,964 528,969 1,327,250 1,487,200	\$ 82,817 108,194 60,430 138,860 188,630  281,383 116,369
Totals	4,020	92	2,293	\$611,800	963	\$652,617	921	\$43,655	8,282,834	\$976,683

#### APPENDIX

#### QUANTITIES OF

District	Herring	Whitefish	Trout	Pike	Pickerel (Blue)	Pickerel (Dore)
	lbs.	lbs.	lbs.	fbs.	lbs.	тъя.
Northern Inland Waters Lake Superior North Channel Georgian Bay Lake Huron Lake St. Clair Lake Erie Lake Ontario Southern Inland Waters	148,968 585,062 1,618,219	1,339,237 385,024 118,847 887,235 92,403 645 3,136,556 403,596 5,074	1,261,211 354,058 1,334,033 1,038,776 21 187,400	58,447 783 24,972 29,642 64,309	5.217 6 277 1,500 2,012,345	52,420 426,291 4,271
Totals	3,597,785	6,368,617	4,364,071	1,216,234	2,118,383	2,515,381
Price per pound	.05	.11	.11	.06	.05	.11
Values	\$179,889.25	\$700,547.87	\$480,047.81	\$72,974.04	\$105,919.15	\$276,691.91

#### No. 3

#### DEPARTMENT, ONTARIO

(57.7)

the Province of Ontario, for the Year Ending December 31st, 1940.

#### MENT

	Seine l	Nets	Poun	d Nets	Hoop	Nets	_	and Nets	Night	Lines	Sr	ears		ezers & Houses	1	ers and harves	Total Value
No.	Yards	Value	No.	Value	No.	Value	No.	Value	No. Hooks	Value	No.	Value	No.	Value	No.	Value	
7 42 37 7 45	1,200 6,150 10,300 570 3,920	3,420 7,110 545	650	15,250 19,400 81,490 65,200 10,340	57 4 10 391	600 2,000 9,925	1 2 8 17	2 4 90 83	25,223 5,406 3,300 2,300 2,100	15 1,985 925 198 48 102			51 35 57 66 17 113	15,450 8,000 16,900 29,925 6,285 151,935 7,030	45 30 56 25 10 82 28	10,755 11,075 31,656 7,738 3,125	251,534 162,885 510,525 484,235 39,602 1,264,416 250,734
138	22,140	\$18,366	1,103	\$507,490	1	\$ 17,880	59	\$419	42,182	\$3,593	68	\$525	531	\$270,235	394	\$114,199	\$3,217,462

#### No 4

#### FISH TAKEN

Sturgeon	Eels	Perch	Tullibee	Catfish	Carp	Mixed Coarse	Caviare	Total	Value
lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	
4,001 3,752 1,329 4,762 8,130	32,956 1,722	1,993,542 117,650	240,352 2,546 102,478 288,418	4,192 21,745 92,113 129,375	5,506 80 268 59,137 17,716 303,279 297,573 181,680 254,299	58,920 190,744 100,001 117,233 316,893 1,140,237 235,319	40 8 250 376 970	3,318,905 792,124 2,658,792 2,211,467 835,429 9,767,998	276,721.9 67,632.1 271,378.5 194,404.4 44,833.3 690,052.2 189,650.2
147,143	34,678	2,471,482	806,897	401,934	1,119,538	2,799,865	4,948	27,966,956	
.40	.07	.05	.06	.08	.05	.03	1.00		
\$58,857.20	\$2,427.46	\$123,574.10	\$48,413.82	\$32,154.72	\$55,976.90	\$83,995.95	\$4,948.00		\$2,226,418.1

APPENDIX No. 5 COMPARATIVE STATEMENT OF THE YIELD OF THE FISHERIES OF ONTARIO

Species	1939 Pounds	1940 Pounds	Increase Pounds	Decrease Pounds
Herring Whitefish Trout Pike Pickerel Blue Pickerel Dore Sturgeon Eels Perch Tullibee Catfish Carp Mixed and Coarse	5,322,226 6,366,973 5,075,802 1,063,269 6,157,383 2,389,635 215,062 277,329 1,935,375 547,865 379,681 1,142,283 3,224,019	3,597,785 6,368,617 4,364,071 1,216,234 2,118,383 2,515,381 147,148 34,678 2,471,482 806,897 401,934 1,119,538 2,799,865	1,644 152,965 125,746 7,349 536,107 259,032 22,253	1,724,441 .711,731 
Caviare	3,387	27,966,956	1,561	*5,883,333

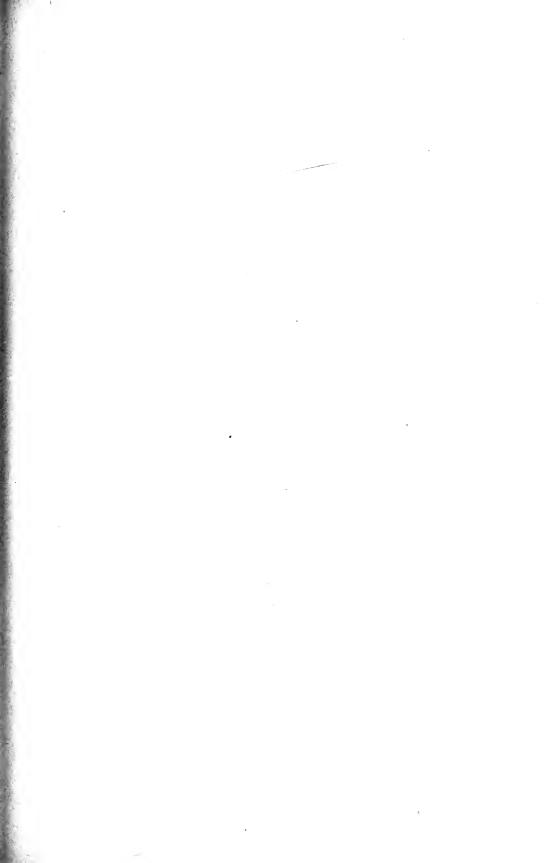
<sup>\*</sup> Net Decrease

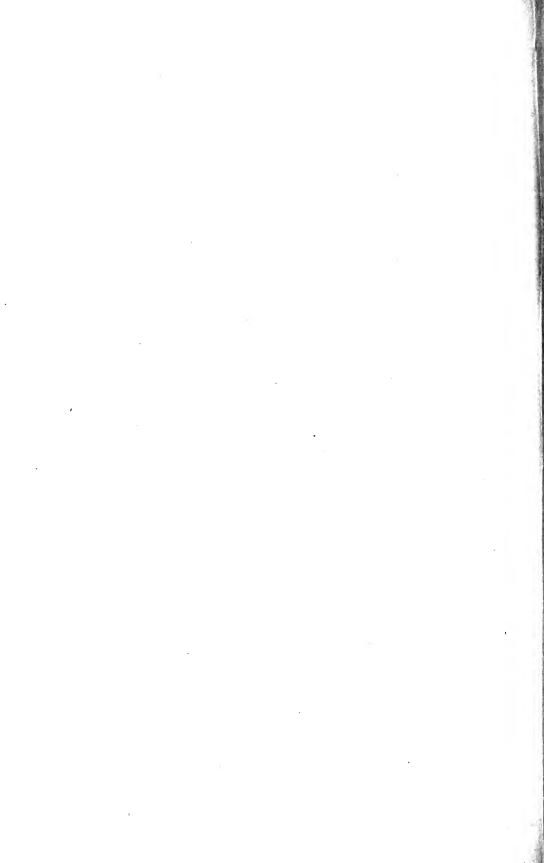
## APPENDIX No. 6 STATEMENT OF THE YIELD OF THE FISHERIES OF ONTARIO 1940

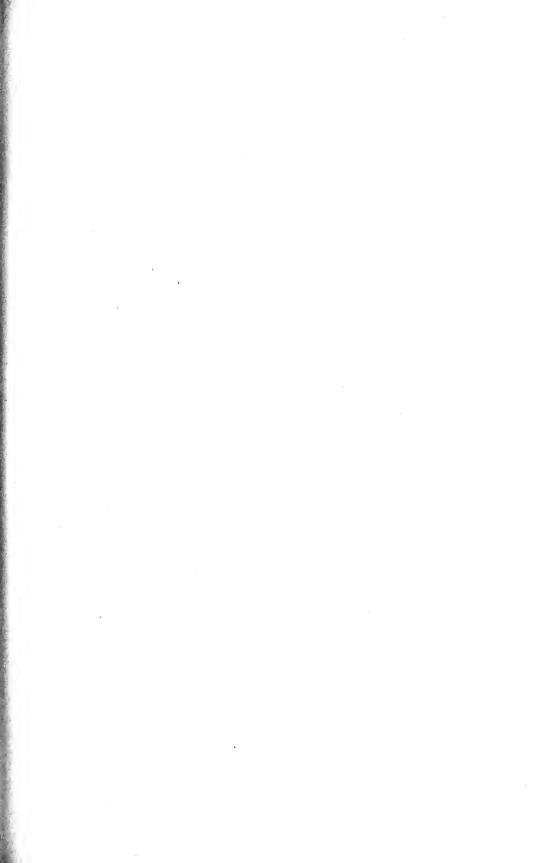
Species	Quantity Pounds	Price per Pound	Estimated Value
Herring	3,597,785	.05	\$179,889.25
Whitefish	6.368,617	.11	700.547.87
Trout	4,364,071	.11	480,047.81
Pike	1,216,234	.06	72,974.04
Pickerel Blue	2,118,383	.05	105,919.15
Pickerel Dore	2,515,381	.11	276,691.91
Sturgeon	147,143	.40	58,857.20
Eels	34,678	.07	2,427.46
Perch	2,471,482	.05	123,574.10
Tullibee	806,897	.06	48,413.82
Catfish	401,934	.08	32,154.72
Carp	1,119,538	.05	55,976.90
Mixed and Coarse	2,799,865	.03	83,995.95
Caviare	4,948	1.00	4,948.00
TOTALS	27,966,956		\$2,226,418.18

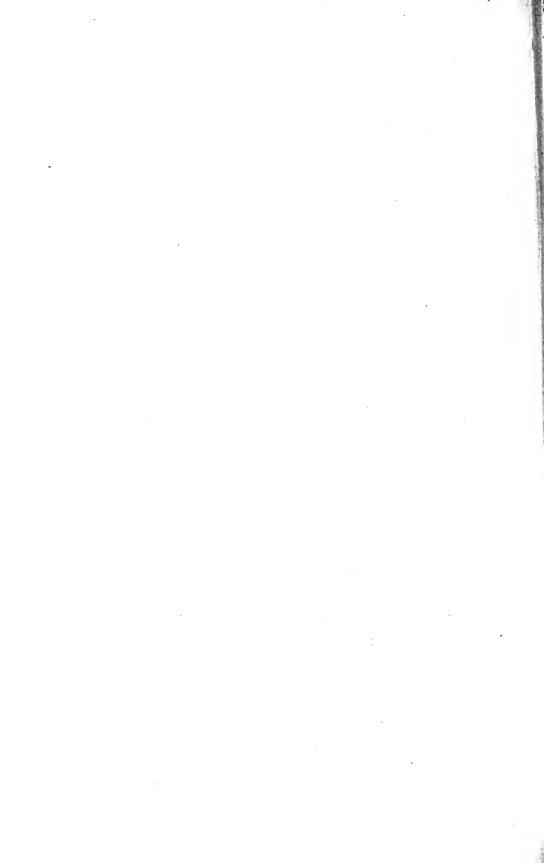
## APPENDIX No. 7 ESTIMATED VALUE OF FISH TAKEN FROM THE WATERS OF THE PROVINCE 1921—1940 INCLUSIVE

1921	 \$2,656,775.82	1931	\$2,442,703.55
1922	 2,807,525.21	1932	2,286,573.50
1923	 2,886,398.76	1933	2,186,083.74
1924	 3,139,279.03	1934	2,316,965.50
		1935	2,633,512.90
		1936	2,614,748.49
1927	 3,229,143.57	1937	2,644,163.49
1928	 3,033,944.42	1938	2,573,640.97
1929	 3,054,282.02	1939	2,564,516.37
1930	 2,539,904.91	1940	2,226,418.18









### Thirty-Fifth Annual Report

OF THE

# Game and Fisheries Department

1941 - 1942

PRINTED BY ORDER OF THE LEGISLATIVE ASSEMBLY OF ONTARIO SESSIONAL PAPER No. 9, 1943



TO THE HONOURABLE ALBERT MATTHEWS,

Lieutenant-Governor of the Province of Ontario.

#### MAY IT PLEASE YOUR HONOUR:

I have the honour to submit herewith for the information of Your Honour and the Legislative Assembly, the Thirty-Fifth Annual Report of the Game and Fisheries Department of this Province, for the year ended March 31st, 1942.

I have the honour to be,

Your Honour's most obedient servant,

G. D. CONANT,

Minister in Charge,

Department of Game and Fisheries.

TORONTO 2, March 15th, 1943.

#### THIRTY-FIFTH ANNUAL REPORT

OF THE

### Department of Game and Fisheries of Ontario

TO: THE HONOURABLE G. D. CONANT, K.C.,

Prime Minister and Attorney-General,

Minister in Charge,

Department of Game and Fisheries.

SIR:-

I have the honour to submit to you herewith the Thirty-fifth Annual Report of the Department of Game and Fisheries, outlining a summary of the activities of the various Departmental services, and including condensed statistics for the fiscal year ended March 31st, 1942, as well as certain comparative tables.

#### INTRODUCTORY

The problems involved in providing a successful programme of conservation in connection with the wealth of the wild life natural resources with which this Province has been endowed are many and varied and have been repeatedly emphasized on many opportune occasions. A permanent solution of the existing problems is to a very large extent dependent upon the complete co-operation of every one who is interested in the maintenance and preservation of this valuable heritage. In the early days fish and game were quite abundant in the lakes and streams and in the forests throughout our virgin territory, and the provision of nature for maintaining the supply was sufficiently adequate. However, the process of developing a country does of necessity entail the removal of forests and the clearing of land in connection with the establishment and growth of a very essential agricultural industry, and the damming of rivers for the provision of electrical power necessary for industrial requirements, as well as many other infringements upon the habitat and environment of wild life, and a considerable reduction of this valuable heritage has been the subsequent result. these resources has continued to grow as their value from an economic and recreational standpoint became more widely known and appreciated. Over a period of years resident hunters and anglers have increased innumerably, and the tourist trade, stimulated and encouraged by the activities of the Department, has in recent years become one of our largest industries.

The policy of protection has recognized the different phases affecting supply and demand and has been developed in an effort to maintain a proper balance. Legislative enactments and regulations have designated specific periods of the year only during which it is lawful to take various species of our more desirable fish and game and restricted the number or quantity of such fish and game which may be taken. Suitable areas have been designated as sanctuaries for game and fish, thus ensuring reproduction and perpetuation therein and in the territory immediately adjacent to such sanctuaries. Small game has been intensively propagated and released for re-stocking purposes, and hundreds of millions of fish are raised artificially in more than a score of fish hatcheries and this production is annually deposited in provincial waters. The game and fish regulations otherwise embody the results of biological and practical experience, and the enforcement of these regulations is provided by a staff of game and fisheries overseers.

The success of this organized effort along the lines of conservation is in proportion to the support and co-operation which is provided and in this connection it is pleasing to note and record the increasing interest being taken by sportsmen, tourist camp operators and guides as is reflected in the many splendid associations which are giving active assistance in implementing the Departmental conservation programme. With a continuation of such co-operation the work and efforts of the Department will undoubtedly prove of lasting benefit to sportsmen in particular and the public generally.

#### FINANCIAL

The following is a complete table of the revenue collected during the period under review and shows the various sources from which this total was derived and the respective amounts attributable thereto:—

#### REVENUE FOR THE FISCAL YEAR ENDED MARCH 31st, 1942.

GAME—		
Licenses—		
Trapping\$	45,128.50	
Non-Resident Hunting	124,365.00	
Deer	94,923.90	
Moose	3,278.00	
Gun	97,768.84	
Dog	6,196.05	- 1
Fur Dealers	28,476.00	1.85
Fur Farmers	7,244.00	
Tanners	170.00	- (1 +:
Cold Storage	227.00	
<u> </u>	407,777.29	
Royalty	130,686.60	
	\$	538,463.89
FISHERIES—		
Licenses—	05.004.00	
Fishing (Commercial)\$	87,831.00	
Angling	476,519.95	
\$	564,350.95	
Sales—Spawn taking	170.07	
Royalty	10,279.03	`
<u>-</u>	\$	574,800.05
GENERAL— Licenses—		
Tourist Camps\$	7,840.00	
Guides	7,690.00	•
\$	15,530.00	
Fines	21,119.26	
Costs Collected (Enforcement of Game Act)	757.96	
Sales—Confiscated articles, etc	27,069.63	
Rent	3,113.50	
Commission retained by Province on sale of lic	2,067.24	
Miscellaneous	347.76	
		70.005.35

The amount collected during this period was the largest recorded in any one particular year during the entire existence of the Department, and exceeds by practically \$200,000.00 the revenue of the previous year. It is also \$168,000.00 in excess of the total amount collected in the previous best financial year, i.e. 1939-40, when for the first time our revenue exceeded the one million dollar mark.

One significant fact which merits favourable comment and more than cursory attention is the amount derived from the sale of non-resident angling and hunting licenses. Upon reference to the foregoing statement of revenue it will be noted that the sum derived from these sources totalled \$600,884.95, which is more than fifty per cent of the revenue collected by the Department from all sources during this period, and almost \$132,000.00 in excess of the revenue collected from these sources in the previous fiscal year. By far the greater proportion of this total would result from the sale of such licenses to visitors from the United States, which is an indication of the importance of the tourist trade to the country generally, as this sum would represent but a small percentage of the total funds such visitors would of necessity have to expend for transportation, meals, accommodation and entertainment or recreation additional to hunting and fishing during the period of their visits within the Province. The efforts devoted by the Government to attract visitors to Ontario and thus develop the tourist traffic within the Province were showing substantial dividends, but it is altogether probable that the entry of the United States, on December 8th, 1941, into the present conflict, will undoubtedly be followed by a noticeable retrogression of this traffic due to diminished numbers of American citizens visiting this country for vacation purposes, particularly during the period in which the existing restrictions governing travel and transportation conditions prevail. Other sources from which increased revenue was derived include the fees received from the sale of the various resident licenses required for hunting purposes, from the sale of trapping licenses and from the collection of fur royalties.

The subjoined table will be of interest by reason of the fact that it depicts comparative revenues derived from these sources during the year under review, the two previous fiscal years, and the fiscal year ended March 31st, 1936, the first complete twelve-month period under the present regime:—

Non-resident Licenses	1935-36	1939-40	1940-41	1941-42
0 1 = 0				
Angling	\$ 200,641.65	\$ 391,504.00	\$ 384,675.00	\$ 476,519.75
Hunting	53,080.00	84,590.00	84,265.00	124,365.00
	\$ 253,721.65	\$ 476,094.00	\$ 468,940.00	\$ 600,884.75
Resident Licenses (Hunting)				
Deer	\$ 56,544.05	\$ 81,882.00	\$ 77,469.40	\$ 94,923.90
Moose	2,728.00	2,733.50	2,948.00	3,278.00
Gun	69,635.93	94,882.18	86,527.85	97,768.00
Dog	3,239.35	5,550.00	5,746.10	6,196.05
	\$132,147.33	\$185,047.68	\$172,691.35	\$202,165.95
Trapping Licenses	\$ 28,315.15	\$ 39,772.30	\$ 35,795.50	\$ 45,128.50
Royalty (Fur)		116,520.40	101.599.18	130,686.60
* No open season for beaver.				

Details of expenditures, both ordinary and capital, are in accordance with the following tabulation:—

#### EXPENDITURE FOR THE FISCAL YEAR ENDED MARCH 31st, 1942.

ORDINARY—		
Main Office	\$	57,091.61
General		3,489.62
Enforcement		217,374.13
Game Animals and Birds		17,809.99
Macdiarmid		2,576.94
Biological and Fish Culture Branch .		206,186.84
Grants		5,400.00
Wolf Bounty	,	40,593.77
Special Warrants,—		
Cost of Living Bonus .	\$ 23,768.51	
Unemployment Insuran	ce 11.67	
F		
		23,780.18
Total — Ordinary	\$	574,231.08
Capital		2,531.18
Total Expenditure		576,762.26

The complete financial statement for the year shows a very desirable condition in that a surplus of \$606,507.03 was derived from our operations and the statement is by far the best ever submitted by the Department of Game and Fisheries.

As will have been observed the heaviest expenses are those incurred in connection with enforcement for the maintenance of the Field Officers whose duties are to provide patrol service throughout the Province to secure proper and adequate observance of the various provisions of the Game and Fisheries Act and Regulations, as well as those which are incurred to provide the various services of the Biological and Fish Culture Branch under the supervision of which Branch the provincial fish hatcheries are operated.

The increased bounty on wolves which was continued during the year quite possibly encouraged trappers to devote more time and energy to the destruction of this vicious predator which probably accounts for the considerable increase in the number taken and therefore the greater amount necessary to take care of the subsequent applications for the payment of bounty.

Regarding the payment of grants, one of \$2,500.00 was made to the Ontario Fur Breeders' Association to assist this organization in their efforts to develop the industry of fur farming within the Province. Three grants totalling \$1,900.00 were paid to Mr. Jack Miner, Mr. Thomas N. Jones and Miss Edith L. Marsh in appreciation of their efforts to provide sanctuaries for migratory and native birds on their own properties located in the counties of Essex, Elgin and Grey respectively. A grant of \$500.00 was made to Professor W. J. K. Harkness to enable him to continue research work with a view to supplementing the existing practice in fish culture operations, and a grant of \$500.00 was made available to the Ontario Federation of Anglers to be used by them along educational lines, and more particularly with a view to securing better observance of the provisions of the Fisheries Regulations.

Capital expenditures were kept under rigid control and only such sums were expended as were absolutely necessary to maintain present buildings, principally on fish hatchery properties, in a proper state of repair.

The table which follows shows the total revenue, expenditure and surplus from Departmental activities during the present and the six preceding years:—

Revenue	Expenditure (Ordinary & Capital)	Surplus
\$ 683,938.72	\$ 451,041.91	\$ 232,896.81
782,217.63	474,128.95	318,088.68
866,558.19	563,938.33	302,619.86
914,475.24	575,437.79	339,037.45
1,015,350.82	568,198.55	447,152.27
984,800.69	512,834.70	471,965.99
1,183,269.29	576,762.26	606,507.03
	\$ 683,938.72 782,217.63 866,558.19 914,475.24 1,015,350.82 984,800.69	\$ 683,938.72 \$ 451,041.91 782,217.63 474,128.95 866,558.19 563,938.33 914,475.24 575,437.79 1,015,350.82 568,198.55 984,800.69 512,834.70

#### GAME

In the following table information is given regarding the number of hunting licenses of all varieties, both resident and non-resident, which were sold during the period under review as well as a comparison with the totals disposed of in the three previous years:—

a p	1938-39	1939-40	1940-41	1941-42
Resident Deer	21,762	21,416	20,219	25,225
Resident Deer (Camp)	307	323	310	333
Resident Deer (Farmers)	7,719	7,722	6,486	7,353
Resident Moose	471	497	536	611
Resident Gun	114,580	113,992	97,218	116,622
Non-Resident Deer	1,329	1,492	1,291	2,028
Non-Resident "General"	569	593	755	1,115
Non-Resident Small Game	1,618	1,567	1,377	1,876
Non-Resident Bear (Spring Season)	49	108	161	189

In every instance there was an increase in the number sold in 1941-42 as compared with those sold in the previous year.

Herewith is a summary of conditions as they apply to the various species of game animals and birds which are to be found in Ontario, and which information is compiled from reports submitted by officers of the enforcement service throughout the Province.

**DEER:**—Throughout the northerly portion of Southern Ontario and in Northern Ontario generally deer continued to be sufficiently plentiful to warrant the statement that the hunting of this species of fine game animal provides a source of relaxation for thousands of interested hunters unequalled by any other division of the sport. The limited extent of the open season and the various restrictions which are in effect during this period of open season, as well as the protection which is provided during that period of the year in which no hunting of deer is permitted, have all contributed in some measure to the maintenance of the deer herds of the Province in their present satisfactory state. Reports from the various counties in Southern Ontario in which an entire closed season has prevailed for many years are to the effect that this complete

protection which has been provided has resulted in a considerable increase in the numbers of these animals which now inhabit many of these areas, though this improvement has not been sufficiently extensive to warrant the provision of general regulations for the hunting of deer in these areas. However, conditions were such in the Counties of Bruce and Carleton that special regulations were promulgated in connection with the hunting of deer therein, details of which are as follows:—

- (a) An open season in the County of Bruce, from November 10th to November 18th, 1941, both days inclusive, though the use of dogs during this hunting season was prohibited.
- (b) An open season in that part of the County of Carleton lying west of the Rideau River, from November 3rd to November 18th, 1941, both days inclusive. The general regulations which govern the hunting of deer were in effect.

In Division (D), Southern Ontario, a special regulation establishing the period of the open season for deer provided that such open season would extend from November 3rd to November 18th, 1941, both days inclusive.

In accordance with local recommendations received in the Department it was further provided that it would be unlawful for any person to hunt deer in the Counties of Durham, Northumberland and Prince Edward and in the Township of Cambridge, in the County of Russell, at any time during the year 1941, thus eliminating the open season in these areas which is established by the general provisions of the Game and Fisheries Act.

MOOSE:-Generally speaking this species of game animal is not plentiful anywhere in this Province, though there are some areas in which rather favourable conditions do prevail. An entire closed season on these animals has been effective for the past several years in that portion of Ontario lying south of the French and Mattawa Rivers and Lake Nipissing, and this prolonged period of entire protection has not resulted in any general increase in the numbers of moose which exist in this part of the Province, though some slight improvement is reported from the County of Renfrew and the District of Muskoka. Advice from various northern Ontario sections indicates conditions practically similar to those which have existed there in more recent years, with slight improvement in scattered areas. Hunting was permitted during the usual open seasons in accordance with provisions of the Game and Fisheries Act, while a restricted period of open season, extending from October 15th to October 31st, 1941, was provided in that area in northwestern Ontario, west of the Superior Junction-Fort William Branch of the Canadian National Railway, including the district of Rainy River and portions of the districts of Kenora and Thunder Bay, and in that area in the southeastern part of northern Ontario, lying north of North Bay and east of Sudbury, and including portions of the districts of Nipissing, Temiskaming and Sudbury.

CARIBOU:—But very few specimens of this variety of game animal exist in Ontario at this time. Naturally they are reported only from locations in northern Ontario and in all instances the information received is to the effect that they are very scarce. They are probably most prevalent, though not plentiful even there, on the larger islands in Lake Superior located along the shore fronting the district of Thunder Bay. Existing conditions demand a continuation of the protection of a closed season throughout the entire year, and which has now prevailed for quite a period of years, if this species is to have an opportunity to maintain itself even in its present limited proportions.

ELK:—The elk which are to be found in Ontario at the present time are those which were originally imported by this Department from Western Canada with the co-operation of the National Parks Branch of the Department of Mines and Resources of Canada, and their subsequent off-spring. During the summer of 1941 six of these animals, three

bulls and three cows, were transferred from their range on the Petawawa Crown Game Preserve in the county of Renfrew, and liberated in a suitable area in the county of Peterborough. Little if any improvement was reported from the localities in which elk have been liberated on different occasions in previous years in the counties of Bruce, Simcoe and Peterborough, and in the districts of Nipissing, Sudbury, Algoma and Thunder Bay. These are the only sections in the Province in which these animals are to be observed, in addition to those on the Petawawa Crown Game Preserve.

BUFFALO:—Little change has occurred in the small herd of buffalo, comprised of sixteen heifers and four bulls, which was imported from Alberta in 1939, and placed on lands in the Burwash Crown Game Preserve in the district of Sudbury.

BEAR:—There would appear to have been some increase in the number of black bear in many parts of Ontario. They are reported to be quite numerous in many parts of northern Ontario and in the districts of Parry Sound and Muskoka and the counties of Haliburton and Renfrew. The demand for the pelts of these animals is at present negligible and as a result of this condition there is no encouragement for the trapping of bear. However, much healthy recreation may result from the hunting of these animals, and no doubt many hunters take advantage of the opportunity for sport thus provided. It will be of interest to report that during the spring bear season from April 1st to June 15th, 1941, some one hundred and eighty-nine (189) hunting licenses were issued to non-residents of the Province for the taking of bear, again recording an increase in the number of such licenses issued as compared with those sold during this season in the previous fiscal year.

RABBITS:—The following varieties of rabbits are to be found in different sections of the Province. viz:—cottontail rabbits, European hare (or jack rabbits) and the varying hare (or snowshoe rabbits).

Cottontail rabbits are reported from all southern Ontario counties with the exception of Renfrew, Haliburton, Muskoka and Parry Sound. Generally speaking, conditions as they applied to this variety were very good and some increase was evident. However, conditions were not favourable in several of the eastern counties as well as in the counties of Grey and Bruce.

The European hare, or jack rabbit as it is more familiarly known, is confined to the extreme southwesterly portion of the Province, lying south of the district of Muskoka and the county of Haliburton and west of the county of Hastings. With but few exceptions reports indicated that they were quite plentiful throughout this section.

The varying hare, or snowshoe rabbit, is prevalent in many of the eastern counties and northern districts of southern Ontario and throughout that portion of the Province lying north and west of the French and Mattawa Rivers and Lake Nipissing. They were reported to be not too plentiful in any of these areas except possibly in the far northwestern districts, though a slight general improvement in their numbers was observed.

There is no doubt that the hunting of rabbits is the favourite sport of a large percentage of hunters throughout the Province, particularly in the late fall and early winter, and there are many who participate in the enjoyable and healthy recreation derived from such hunting.

PARTRIDGE:—Satisfactory conditions with reference to both ruffed grouse and sharp-tailed grouse continued to prevail in the areas in which suitable environment exists, more particularly in the northern districts of the Province. The sharp-tailed variety of partridge are the western Canada species and are found in Ontario only in the northwestern districts. Special regulations were adopted to provide for an open season during the fall of 1941, details of which are as follows:—

The general open season consisted of two periods extending from October 4th to October 14th, and from November 3rd to November 12th. Limits of catch provided by the Regulation which governed in this case were not more than five (5) birds per day and not more than twenty-five (25) birds in all during the two periods. This applied throughout the Province except in the counties of Essex and Kent and in the townships established as Regulated Game Preserve Areas. In these areas mentioned in this exception to the general Regulation the dates on which the hunting of partridge was permitted were October 24th, 25th and 29th and November 1st, and the limits of catch were five (5) birds per day.

HUNGARIAN PARTRIDGE:—This species of game bird is not native to the Province. The present stock is the result of importations, principally from central European countries several years ago, and which were later liberated in suitable areas. They are reported to exist, though not at all plentiful, in many southern counties, and small flocks have been observed in isolated and scattered sections of southern Algoma, eastern Thunder Bay and Rainy River. They are possibly more numerous in counties in the extreme southwest and extreme southeast portions of the Province. The open season provided in 1941 was in effect only in the counties of Essex and Kent on October 24th, 25th and 29th and November 1st, and the limits of catch were established at two (2) birds per day.

PHEASANTS:—During the year 1941 the Department undertook the distribution of 21,168 pheasants, comprising 19,684 poults, 1,122 adult hens and 362 adult cocks. These birds were purchased at a cost of \$16,514.85, and were liberated under the supervision of field officers of the Department, 18,259 in the townships established as Regulated Game Preserve Areas and 2,909 in a few counties additional thereto. Following are details of this distribution, and in all cases except as is indicated the birds liberated were poults:—

Regulated Game Preserve Areas: -County of Brant, (three townships, -Burford, South Dumfries and Onondaga), 760 birds; County of Elgin, (five townships,-Aldborough. Eayham, Dorchester South, Dunwich and Malahide), 1,000 birds; County of Haldimand, (ten townships,-Canboro, Dunn, Moulton, Cayuga North, Cayuga South, Oneida, Rainham, Seneca, Sherbrooke and Walpole), 1,263 birds, of which 13 were adults; County of Halton, (four townships,-Esquesing, Nassagaweya, Nelson and Trafalgar), 1,641 birds of which 191 were adults; County of Lambton, (one township,—Plympton), 200 birds; County of Lincoln, (eight townships,-Caistor, Clinton, Gainsboro, Grimsby North, Grimsby South, Grantham, Louth and Niagara), 2,670 birds of which 270 were adults; County of Middlesex, (two townships,-Westminster (part) and Metcalfe), 500 birds; County of Norfolk, (four townships,-Middleton, Townsend, Walsingham and Windham), 640 birds; County of Ontario, (three townships,-Pickering, Whitby East and Whithy West), 750 birds; County of Oxford, (one township,—Dereham), 300 birds; County of Peel, (five townships,-Albion, Caledon, Chinguacousy, Toronto (part) and Toronto Gore), 1,652 birds of which 289 were adults; county of Prince Edward, (one township.—Marysburgh South), 100 birds; County of Welland, (eight townships,— Bertie, Crowland, Humberstone, Pelham, Stamford, Thorold, Wainfleet and Willoughby), 1,800 birds; County of Wellington, (one township,—Puslinch), 300 birds; County of Wentworth, (eight townships,-Ancaster, Barton, Beverley, Binbrook, Glanford, Flamboro East, Flamboro West and Saltfleet), 1,783 birds of which 24 were adults; County of York, (seven townships,—Gwillimbury East, Gwillimbury North, King, Markham, Scarboro, Vaughan and Whitchurch), 2,900 birds, of which 650 were adults.

General:—County of Essex, 1,221 birds,—700 on the mainland and 521 (of which 47 were adults) on Pelee Island; County of Huron, 50 birds; County of Kent, 700 birds; County of Lambton, 25 birds; County of Leeds, 50 birds; County of Northumberland, 213 birds; County of Oxford, 600 birds; and County of Perth, 50 birds.

The Regulations which prescribed the open season for the taking of pheasants in 1941 established October 30th and 31st, and November 7th and 8th as the effective dates on Pelee Island with a limit of catch of five (5) birds per day and a possession limit of ten (10) birds during each of the two two-day periods, with the further provision that in each two-day period hunters could include in their possession limit of ten (10)birds not more than three (3) hen birds upon the payment of \$1.00 each for such hens to the Departmental representative on the Island. In the Township Regulated Game Preserve Areas the dates of this open season were October 24th and 25th, and two additional days, viz:—October 29th and November 1st, provided the municipal authorities in any township issued their special hunting licenses therefor. The limits of catch provided were three (3) cock birds per day. Hunters who participated in this open season on Pelee Island and in the Regulated Game Preserve Areas were required to provide themselves with the special hunting license which the municipal councils were authorized by the Regulations to issue, as well as the hunting license required under the Game and Fisheries Act. In the County of Essex (excluding Pelee Island) and the County of Kent the dates of the open season were October 24th, 25th and 29th and November 1st, with a limit of catch of three (3) cock birds per day.

While in the areas in which the open season prevailed conditions have been conductive to the introduction and successful establishment of this species, and were sufficiently satisfactory to warrant provision of the hunting which was permitted in the fall of 1941, it is quite possible that any future extension which may be contemplated will be restricted to areas in which weather conditions are not too severe. Efforts undertaken by the Department in previous years with a view to securing establishment of these birds in areas immediately to the east and north of the section concerned have not been particularly successful, and while some birds may yet be found in these areas there has not been any noticeable increase in their numbers according to the reports of our field officers stationed therein.

QUAIL:—The only portion of the Province in which these birds are reported to be found in sufficient numbers to assure any measure of success in the hunting of same would appear to be in a few counties in the extreme southwestern end of the Province, though a few isolated small bevies have been observed in some of the eastern counties. A special open season was provided by Regulation in the counties of Essex (excluding Pelee Island) and Kent on October 24th, 25th and 29th and November 1st, 1941, with a limit of catch of four (4) such birds per day.

DUCKS:—There is every indication that the several varieties of ducks which cross Ontario along the route of their southerly migration during the fall of the year provide a good measure of sport for those who find recreation in the hunting of this species of game bird. They were fairly plentiful and appeared in increased numbers in many areas, particularly those in which favourable feeding conditions exist. The various provisions which govern the hunting of ducks are provided by the Federal Government in co-operation with the various Provinces under the Migratory Birds Convention Act and Regulations. The restrictions which have been in effect in more recent years for the protection of wild ducks have undoubtedly reacted favourably and resulted in creating conditions necessary for the improvement now reported and which has been the objective towards which our efforts have been directed. The present desirable conditions will probably continue providing the existing restrictions are maintained.

GEESE:—This species is of little importance in the general scheme of hunting in Ontario. Conditions remained about the same as has been indicated in Departmental annual reports for the past several years. Successful hunting of wild geese may be enjoyed only along the shores of James Bay, in the far northern end of the Province, and in the extreme southwestern counties. In other sections they are observed only in flight

during the fall and spring migration periods. As in the case of wild ducks the regulations which are authorized for the hunting and protection of wild geese are provided under the Migratory Birds Convention Act.

WOODCOCK:—As a general rule these birds are not very plentiful, and in most sections from which they are reported their numbers are quite limited. The only possible exceptions to this general rule are a few counties along the north shore of Lake Erie and immediately to the north thereof, as well as in some of the counties in the southeastern end of the Province. The Migratory Birds Convention Act governs, and in 1941 the open season extended over a period of only one month, in the northern division from September 20th to October 20th, and in the southern division from October 1st to October 31st. The bag limit was eight (8) per day and not more than one hundred (100) for the season.

SNIPE:—There are but few sections in Ontario in which these birds are found in sufficient number to warrant any extensive hunting of the same, and it is quite probable that not many hunters make any particular effort to take them. This is another species protected by the Migratory Birds Convention Act and Regulations.

**PLOVER:**—Conditions with respect to these birds are varied, and while unfavourable reports predominate and indicate that a not too satisfactory state generally prevails, there are some sections from which some improvement has been reported. Under the Migratory Birds Convention Act and Regulations plover are provided the protection of an entire closed season.

#### FUR-BEARING ANIMALS

The following is a summary of conditions which apply to fur-bearing animals throughout the Province, and which information has been prepared from reports submitted by officers of the Field Service Staff:—

BEAVER:-The reports which have been received regarding beaver would indicate that these animals exist in fairly satisfactory numbers throughout Ontario, except in some of the counties situated in the southwestern and southeastern portions of the Province, though a slight increase in their numbers is reported from some of these counties. While the necessity for the present regulations for the protection of this species is apparent, existing conditions did warrant the provision of a short open season with a restricted limit of catch, and the open season provided covered the period from December 1st to December 21st, 1941, and was in effect in that portion of the Province lying north and west of the French and Mattawa Rivers and Lake Nipissing (except the area lying west of the line of the Canadian National Railway from Fort Willam to Superior Junction and south of the main transcontinental line of the Canadian National Railway from Superior Junction to the Manitoba Boundary), in the districts of Manitoulin, Parry Sound and Muskoka, and that part of the district of Nipissing lying south of the Mattawa River (excluding Algonquin Park), and in the counties of Victoria, Haliburton, Peterborough, Hastings, Lennox and Addington, Frontenac and Renfrew. Under the regulations which governed all persons who trapped beaver during this open season, including farmers trapping on their own lands, were required to secure trapping licenses, and each trapper was authorized to take not more than ten (10) beaver during this open season. Returns received in the Department show that some 25,197 pelts were taken during this period of open season, and it has been estimated that the value of these pelts to the trappers concerned was in excess of \$530,000.00.

**FISHER:**—The annual catch of these animals is indeed very small. Conditions with reference to this species are not good in any part of Ontario. It is practically extinct in that part of the Province lying south of the French and Mattawa Rivers and Lake Nipissing.

FOX:—The red variety of this species showed a remarkable increase, particularly in southern Ontario during the period covered by this report. As a matter of fact the total catch of 32,215 was more than double the catch of the previous year, and has not been exceeded since the season of 1936-37. This condition resulted in the receipt of many complaints from farmers to the effect that they were losing considerable numbers of their poultry due to the depredations of these predators and which complaints influenced the Department to instruct field officers that no action was to be taken to prevent trappers and hunters from taking foxes for a period of fifteen days following the end of the regular open season, or until March 15th, 1942. This condition also resulted in action by the Municipal Councils of some of the thickly settled townships in the counties of Peel, York and Ontario to provide for the payment of a bounty on foxes which were killed within the limits of such townships. While other varieties of wild fox,—cross, silver or black and white,—are not nearly so numerous as are red fox, a substantial increase in the seasonal catch of each variety was recorded.

LYNX:—In this case there was also an increase recorded in the total catch reported during the year, though the number taken was very small. They are trapped principally in northern Ontario, and while there are reports of their existence in some scattered portions of southern Ontario, in all sections the condition of this species can be described only as extremely scarce.

MARTEN:—As in the case of lynx these animals are extremely scarce and few of this species are found other than in northern Ontario. Some small improvement is reported from the district of Cochrane and the northern portion of the district of Algoma. There was an increase in the season's catch.

MINK:—Conditions as they affected this species showed improvement in practically every section of the Province. While this improvement would no doubt result in a proportional increase in the total catch during the open season which prevailed, to this improvement could not be attributed in its entirety the very substantial increase which was reported. The total catch of 63,996 mink represented an increase in excess of sixty-four per cent as compared with the catch of the previous year. This total has not been exceeded by the take of any one season since 1926. Exceptionally favourable trapping conditions during the period of the open season were unquestionably very largely responsible for this remarkable increase.

MUSKRAT:—It is again possible to report that fairly satisfactory conditions prevailed in respect to muskrat. While there were local increases and declines in the existing numbers of these animals, generally speaking a normal average was maintained as is indicated by the number trapped during the open season which was again provided by Regulation. Different periods of open season were established to coincide with favourable weather conditions in the sections concerned. The principal source of general revenue accruing to licensed trappers is derived from the sale of their muskrat pelts. It has been calculated that trappers received the approximate sum of \$1,445,000.00 from muskrat pelts marketed by them, which was forty-five per cent of the estimated value of the total catch of fur taken during the various open seasons of 1941-42.

OTTER:—This species is not too plentiful in any section of Ontario, though there are a few sections in the northern part of the Province from which improvement has been reported. The number trapped during the open season was about average.

RACCOON:—General conditions with reference to raccoon would appear to be deteriorating. They exist only in the lower section of the Province, and while the annual catch showed an increase when compared with the figure for the previous year, this impression of improvement is not substantiated by the reports of our field officers, the majority of whom advise that conditions are unchanged or that there has been some decrease in their numbers.

SKUNK:—This is a species of fur-bearing animal which continues to experience no difficulty in maintaining itself in practically undiminished numbers. They are reported to be quite plentiful in practically every section of Ontario and there was a considerable increase in the numbers which were taken during the trapping season of 1941-42. They may be taken at any time during the period in which trapping licenses are valid.

WEASEL:—The prevalence of this species varies in different sections. As in the case of skunk they may be taken at any time during the general trapping season. The total catch during the season of 1941-42 was just average, and it is quite possible that the small returns derived from the sale of these pelts did not encourage trappers in their efforts to take these animals.

The following is a comparative table showing the numbers of pelts of the several varieties of fur-bearing animals taken by licensed trappers, and which were either exported or dressed, during the fiscal period covered by this report, as well as similar figures for the three preceding years:—

	1938-39	1939-40	1940-41	1941-42
Bear	363	295	274	384
Beaver	1,366	33,530	21,605	25,197
Fisher	1,467	1,382	858	884
Fox (Cross)	2,164	981	722	1,780
Fox (Red)	22,366	19,925	15,059	32,215
Fox (Silver or Black)	131	101	67	206
Fox (White)	142	36	91	114
Lynx	785	514	383	537
Marten	2,074	1,790	1,439	1,652
Mink	25,111	36,518	38,976	63,996
Muskrat	508,893	689,706	739,224	722,387
Otter	3,764	4,101	3,931	3,880
Raccoon	9,493	14,493	11973	13,499
Skunk	89,100	74,176	72,005	94,656
Weasel	93,488	95,832	53,719	80,776
Wolverine	3	2	2	3

Some ten thousand licenses were issued by the Department of Game and Fisheries during the 1941-42 season to authorize the trapping of fur-bearing animals, and from reports received by the Department from various licensed fur dealers it has been estimated that such trappers received a total of \$3,170,790.45 for the various pelts taken by them during this trapping season, which is an increase of more than eighteen per cent over the estimated valuation for the previous year. In order of importance the principal sources of this increase were mink, fox, skunk, beaver and weasel.

Pelts taken from animals raised on licensed fur farms, viz:—fox (silver or black, blue and cross), and mink, and disposed of during the year by such fur farm licensees have been estimated to have realized the sum of \$1,036,354.08, a decrease of some \$210,000.00 as compared with the operations of the previous year, making the value of the total fur production of the Province for the year 1941-42 the sum of \$4,207,144.53.

#### FUR FARMING

The propagation of fur-bearing animals in captivity continued during the year, though these operations were confined principally to mink and foxes. Disturbing in-

fluences such as restricted markets for fur, rising costs of feeds and the uncertainty of supplies, attributable to the state of war in which our country is involved, caused some reduction in the number of fur-farm licenses which were issued during the year, and there was a decrease of some ten thousand, or practically thirty per cent in the number of silver and black fox pelts which were marketed by licensed fur farmers during the year as compared with the number marketed during the previous year. There were 1,613 fur farms licensed during 1941, a reduction of twelve per cent.

The following comparative table shows the total number of animals retained as breeding stock on licensed fur farm premises as at the first day of January in each of the four years included in the comparison:—

A To	1939	1940	1941	1942
1000	1333	1340	1341	1342
Beaver	2	4	13	18
Fisher	19	27	26	16
Fox (Cross)	197	168	134	112
Fox (Red)	120	96	65	73
Fox (Silver or Black)	22,923	18,327	16,034	15,630
Fox (Blue)	98	209	397	644
Lynx	2	2	2	2
Mink	30,378	31,989	34,277	38,650
Muskrat	267	235	179	119
Raccoon	284	243	139	124
Skunk	6	10	7	5
Marten	15	19	16	19
Otter	0	2	2	0
		1	I	!

It has been estimated that this breeding stock as at January 1st, 1942, had a replacement value of \$1,994,815.00.

A compilation of fur records undertaken by the Department shows that licensed fur farmers during the year 1941-42 disposed of the following pelts from stock raised on these establishments, viz:—

63,580 mink, 61,303 of which were exported, and the remaining 2,277 dressed within the Province.

24,410 silver and black fox, 16,466 of which were exported, and the remaining 7,944 dressed within the Province.

524 blue fox, 503 of which were exported, and the remaining 21 dressed within the Province.

164 cross fox, 109 of which were exported, and the remaining 55 dressed within the Province.

#### CROWN GAME PRESERVES

The various Crown Game Preserves which had existed in the previous year were continued without change in any case either as regards the area involved or the conditions pertaining thereto. Similar comment applies also to the several townships which were previously established as Regulated Game Preserve Areas.

Only one new Crown Game Preserve was established during 1941-42, and this was the Kesagami Beaver and Fur Sanctuary. The area included therein is located in the district of Cochrane lying west of the Ontario-Quebec interprovincial boundary, east of the Moose and the North French Rivers, south of the southern shore of James Bay, and north of the northern boundaries of the townships of Inglis, Swartman, McQuibban, Tweed and Blakelock and the easterly extension thereof to the Ontario-Quebec interprovincial boundary. The regulation which provided for the establishment of this Sanctuary was adopted at the request of the Department of Mines and Resources for Canada, primarily to enable the Department of Game and Fisheries with the co-operation of the Federal Department of Mines and Resources to re-stock the area with beaver during the years specified, control the annual take of beaver therein, if and when such trapping is permitted, and provided a restricted and controlled trapping ground for the benefit of Indian residents in Ontario. The regulation further provides for the trapping in this area by resident Indians only of fur-bearing animals other than beaver. This is the second such Sanctuary now established.

#### WOLF BOUNTIES

The following is a comparative statement showing annual wolf bounty statistics and payments for a period of five years ending with the 1941-42 fiscal period:—

Period	Timber	Brush	Pups	Total	Bounty & Expenses
For year ending Mar. 31, 1938	1,022	837	30	1,889	\$27,474.24
For year ending Mar. 31, 1939	1,031	723	41	1,795	25,357.00
For year ending Mar. 31, 1940	1,107	614	22	1,743	25,058.12
For year ending Mar. 31, 1941	738	400	8	1,146	16,477.43
For year ending Mar. 31, 1942	1,199	577	37	1,813	40,593.77

The basic rate of bounty on adult wolves, viz:—\$25.00, which was provided by regulation dated March 1st, 1941, was in effect in 1941-42, while the bounty on wolf pups (animals under the age of three months) remained at \$5.00.

This increased bounty was probably the principal incentive to the intensified hunting and trapping of these animals which resulted in an extremely large increase in the number of wolves killed and the subsequent applications for the payment of bounty. It will be observed upon reference to the foregoing comparative table that bounty was paid on a total of 1,813 wolves, which represented an increase of 58 per cent over the number on which bounty was paid in the preceding fiscal year. It will also be noted that this is the largest number of wolves on which bounty has been paid since the year ending March 31st, 1938.

During the year 1941-42 the Department received 1,350 claims for the payment of hounty on a total of 1,834 wolves, twelve of which claims in respect of seventeen pelts were refused for various reasons.

The following is a summary showing in detail the sources of origin and the variety of pelts on which application for bounty was made:—

SUMMARY OF APPLICATIONS FOR WOLF BOUNTY

County	Timber	Brush	Pups	Total
Bruce	10	11	0	21
Dufferin	0	1	0	1
	0	1	0	1
Essex	•	_	· ·	_
Frontenac	10	22	0	32
Grey	0	4	0	4
Hastings	12	5	12	29
Kent	1	1	0	2
Lambton	1	4	0	5
Lanark	10	2	0	12
Leeds	0	1	0	1
Lennox & Addington	20	5	0	25
Middlesex	0	1	0	1
Norfolk	0	10	9	19
Northumberland	0	1	0	1
Ontario	9	6	0	15
Oxford	0	2	0	2
Peterboro	10	1	0	11
Renfrew	52	8	0	60
		12	6	23
Simcoe	5		0	
Stormont	1	0	1	1
Victoria	10	16	0	26
Total County	151	114	27	292
DISTRICT				
Algoma	98	65	0	163
Cochrane	14	4	0	18
Haliburton	9	7	0	16
Kenora	352	92	12	456
Manitoulin	26	102	1	129
Muskoka	37	6	0	43
		9	0	101
Nipissing	92		-	
Parry Sound	50	4	0	54
Patricia	51	6	0	57
Rainy River	108	57 .	0	165
Sudbury	66	84	0	150
Temiskaming	6	0	0	6
Thunder Bay	141	43	0	184
Total District	1,050	479	13	1,542
Grand Total	1,201	593	40	1,834

Information assembled from the applications for bounty as submitted to the Department shows that 525 of these wolves were destroyed by farmers, 511 by Indians, 330 by trappers, and the remainder by guides, hunters and park rangers. It would appear that the use of wire snares was responsible for the taking of practically one half of the total, and the remaining half principally by trapping and shooting.

The bounty on wolves which were destroyed in the counties indicated are originally paid, in accordance with the provisions of the Wolf Bounty Act, by the county authorities, and the Department then remits forty per cent of such bounty payments to the county authorities concerned.

As previously shown the total payments for bounty and incidental expenses amounted to \$40,593.77, of which \$40,529.00 was actual bounty, and the remaining \$64.77 was expenses.

#### **GENERAL**

#### TOURIST OUTFITTERS:-

It is generally admitted that the variety of good fishing and hunting available in the Province are not the least of our attractions for tourist visitors. The economic value of good hunting and fishing is apparent when it is remembered that the tourist trade is one of the leading industries of the Province, and in this connection it is well to remember that the intensive efforts which have been made to increase the volume of this tourist business is part of our war effort and as such demands the complete co-operation of every citizen.

The regulation and control of hunting and fishing camps which provide accommodation to the tourist trade in northern Ontario was continued in 1941-42. The necessary licenses to operate were issued to 665 proprietors of such camps, and notwithstanding the uncertainty of existing conditions this was a reduction of only two from the number of such camps which were provided with licenses in the previous year. Of these 610 were issued to resident operators and 55 to non-resident operators.

These camps are located as set forth in the following tabulation:-

			-															
Algoma										 					 			92
Cochrane										 					 			7
Kenora	٠.			٠.		 			•	 						 		158
Manitoulin		٠.								 					 			56
Nipissing	٠.					 				 						 		93
Parry Sound .										 					 			109
Patricia													•	-	-	 	-	
Rainy River .																		
Renfrew						 		 								 		14
Sudbury						 		 								 		59
Temiskaming						 		 								 		6
Thunder Bay .						 				٠.						 		32

#### THE BULLETIN:-

Publication of the Bulletin issued periodically by the Department since August, 1936, was suspended because of prevailing economic conditions. The final number of this very interesting publication was issued for the months of November-December, 1941. We do anticipate that this suspension is but a temporary measure and that the publication of the Bulletin will be recommenced when normal conditions have returned to a war-torn world.

The closing comment of the Editor contained in the last issue is quoted herewith:—

"We take this opportunity of expressing thanks to all those who helped to make the editorial road comparatively smooth, and trust our combined efforts have succeeded in stimulating interest in the conservation of our Wildlife Natural Resources."

#### GAME AND FISHERIES ACT:-

The only amendments adopted applied to the Fisheries Regulations, and the principal changes included,—

- (a) Minor alterations in the dates of the open seasons for pike, yellow pickerel and lake trout;
- (b) The provision of minimum size limits with respect to yellow pickerel when taken by angling, 13 inches, and for maskinonge, 24 inches; and
- (c) A daily limit of catch was provided to apply to perch when taken by angling,—viz:—fifteen (15) per day for the waters of Lake Mindemoya (district of Manitoulin), and twenty-five (25) per day for other provincial waters.

Regulations provided during the year by Order-in-Council not elsewhere referred to in this Report included:—

- (a) The issue of permits to authorize the operations of those engaged in the sale of gill nets, in accordance with Section 17 of the Game and Fisheries Act, and requiring submission to the Department by such permittees of monthly returns showing such sales;
- (b) Authorizing the issue of a non-resident angling license for a restricted period of time, viz:—three consecutive days, at a fee of \$2.00.
- (c) To prohibit the hunting of deer and moose in the territory lying within a distance of one and one-half miles on either side of Highway No. 70, between Kenora and Fort Frances; and
- (d) An open season for black and grey squirrels in southern Ontario, south of the French and Mattawa Rivers and Lake Nipissing, except in the counties of Essex and Kent, October 24th, 25th and 29th, and November 1st, and in the counties of Essex and Kent, October 24th and 25th, and providing limits of catch not to exceed five (5) such animals per day.

#### ENFORCEMENT

The Department's field officers are an essential part of the administration services which are provided, and they play an important role in the conservation of the resources with the supervision of which we are charged. Every member of this service has an extensive district to cover and their work is made less onerous by reason of the cooperation they receive from interested sportsmen who devote a measure of their endeavours to seeing that the depredations of the poacher and the law breaker are neither countenanced nor permitted. Valuable assistance in this work of enforcement is also received from the many members of the Provincial Police force.

A voluntary group of sportsmen and nature lovers known as Deputy Game and 'Fishery Wardens lend a great deal of moral and practical support in checking and preventing violations of the provisions which are in effect. These honourary officers are supplied with proper identification and under their appointments are provided with the necessary authority to take individual action where such is demanded in the instances which come under their observation.

The Department would naturally prefer to find respect for the law so complete that prosecutions would not be necessary, but until such a condition does obtain vigorous action to discourage infractions, minor or otherwise, will continue to be taken.

In addition to the work of the regular enforcement officers, Provincial Police, and Deputy Game and Fishery Wardens a great deal of co-operation and support is

given by the Game and Fish Protective Associations throughout the Province. There are close to two hundred of such organizations and they represent the organized effort of sportsmen to conserve and protect the provincial wild life resources through educational and practical means. They are of great benefit and assistance in consolidating public opinion towards a proper appreciation of the value of these resources and respect for the legislation and regulations which govern their administration, and from the personal experience of their individual members furnish a great deal of practical knowledge valuable in the framing of proper and effective laws.

It should be appreciated that the difficulties of protecting these resources scattered over such a vast extent of territory are very considerable, and that only the complete co-operation of the general public will ensure the success of our efforts. The majority of sportsmen were never more conservation-minded than they are at present, and sporting ideals have reached a high plane. This is a splendid augury for the future success not only of the sports of hunting and fishing, as well as of the trapping industry, but also for the protection and development of the resources which make them possible.

In the usual performance of their patrol service enforcement officers found it necessary to place under seizure various articles of hunting, fishing and trapping equipment, as well as game, fish and the pelts of fur-bearing animals taken, in 1,525 cases in which they had evidence of violations of provisions of the Game and Fisheries Act and Regulations. Game and Fisheries Overseers were responsible for this action in 1,339 cases, Deputy Game Wardens in 84 cases, Provincial Police Constables in 15 cases, and in the remaining 87 cases the action was provided by Overseers, Police or Deputy Game Wardens acting in co-operation with each other.

The following is a summary of the articles which were confiscated:—

Live animals and birdsin	10	cases
Birds, game animals and meatin	147	cases
Fire-arms and ammunitionin	645	cases
Fishin	162	cases
Nets and fishing equipmentin	167	$\mathbf{cases}$
Angling equipmentin	86	cases
Pelts and hidesin	291	${\it cases}$
Traps and trapping equipmentin	186	cases
Canoes, rowboats and motor boatsin	33	cases
Outboard motorsin	10	cases
Motor vehiclesin	5	cases
Flashlights and lanternsin	23	cases
Spearsin	58	cases
Miscellaneous articlesin	32	cases

The fact that more than one item was reported seized in many of these cases,—such as fire-arms and game, venison and deer hides, nets, fish and boats, fishing tackle and fish, traps and pelts, spears and lights, as well as other combinations, would be responsible for the apparent discrepancy as between the actual number of cases in which seizures were reported and the total cases reported in the previous table.

Confiscated firearms were as follows:—283 .22 calibre rifles (single shot and repeaters), 11 25-20 rifles, 92 heavy calibre rifles, 203 shotguns (single barrel and double barrel), 34 repeating shotguns, 2 automatic shotguns, 3 combination weapons (rifle and shotgun barrels), 4 revolvers and 63 air or spring guns.

Confiscated pelts of fur-bearing animals were as follows:—335 beaver, 2 fisher, 42 fox (black, cross and red), 96 mink, 726 muskrat, 4 otter, 4 rabbit, 54 raccoon, 60 skunk, 12 squirrel and 54 weasel, as well as 37 deer and moose hides.

Included among the miscellaneous articles which were seized are three axes, one suitcase, one trunk, eight packsacks and haversacks, one tent, thirty-seven duck decoys, one box of tools, four batteries, three hounds and two ferrets.

Charges were laid and prosecutions undertaken in 1,201 cases involving violations of provisions of the Game and Fisheries Act and Regulations. Convictions were registered and penalties imposed in 1,117 of these cases, in 70 cases the charges were dismissed by the presiding Magistrates, and in 14 cases the charges were subsequently withdrawn. These prosecutions were undertaken by Game and Fisheries Officers in 1,144 cases, by the Provincial Police in 28 cases, in 18 cases by Game and Fisheries Officers and Provincial Police Constables acting in co-operation with each other, and in 11 cases in which trespass was involved by the property owners concerned.

#### REPORT OF THE FISH CULTURE BRANCH

During the year the department operated twenty-seven hatcheries and rearing stations in a satisfactory manner. With the exception of maintenance and necessary repairs, additional hatchery construction was not undertaken.

#### THE CULTURE AND DISTRIBUTION OF FISH

#### Speckled Trout:

In keeping with the objective, in excess of 3,000,000 yearling speckled trout were planted in suitable waters. In addition, 16,732 adults and 394,000 fingerlings, which could not be accommodated in the hatcheries and ponds, were distributed.

#### Brown Trout:

The distribution of brown trout yearlings was 37.4 per cent. greater than that of the preceding year.

Brown trout are not planted in waters which continue to support native trout in a satisfactory manner. For the most part the distribution of browns has been confined to streams in Southern Ontario which have been giving promising results. Since 1934 planting in lakes and streams of northern Ontario has been avoided, with two or three exceptions; in those particular exceptions speckled trout would not be affected.

#### Rainbow Trout:

#### (a) Steelhead trout-

Distribution of fingerlings and yearlings of this species was 45 and 40 per cent., respectively, lower than that of the preceding year.

This species is strongly migratory and descends from small streams in which it is planted to larger waters. For example, rainbows planted in streams flowing into the Great Lakes migrate to the latter probably before their third year and, after sexual maturity, return to the streams, spawn and soon after return to the lake again. Excepting in the large rivers and lakes where they remain after planting, and these cases are apparently few, their value from the angling standpoint is open to question. Planting is confined to suitable and large, torrential rivers of the north and also to the large, warm rivers of the south where interference with speckled trout is nil or nearly so.

It is desirable that a check be made in regard to the waters stocked with this species to determine the validity of further planting.

#### (b) Kamloops trout-

A concise account of this species was given in the report for 1940. Briefly, it

has excellent game fish possibilities. It will become established in an environment similar to that of speckled trout and it is non-migratory. We have evidence to show that it has become established in a satisfactory manner in some of the lakes to which it has been introduced.

During the year substantial plantings were made, namely, 88,000 fingerlings and 25,000 yearlings.

#### Lake Trout:

The total distribution of eyed eggs, fry and fingerling lake trout was 78 per cent. greater than in 1940. Progress made in regard to the distribution of fingerlings was particularly commendable, namely, 147 per cent. increase over that of the previous year.

#### Whitefish:

There was a decrease in the amount of whitefish fry planted, amounting to 6.8 per cent. The decrease was due to weather conditions in Hay Bay, (vicinity of the Bay of Quinte). Storms interfered with the operation of nets to such an extent that many of the trapped whitefish were liberated. Heavy storms at Little Current and on Lake Wanapitei also interfered with spawn-taking operations. At Kenora ice formed on the nets and on the sides of the pounds; this forced the retainers under water and liberated 50 per cent. of the whitefish. Immediately after the storm it was necessary to remove the nets as the lake was freezing over. At Fort Frances the nets were in a protected area but due to ice formation it was necessary to remove them and to liberate the fish before spawn-taking operations were completed. On Lake Erie in the vicinity of Port Dover, spawn-taking operations have become reduced in recent years. Normal conditions will undoubtedly be re-established after the war.

Fortunately, spawn-taking operations at the west end of Lake Erie, namely, at Kingsville were very satisfactory. Moreover, distribution took place sufficiently early in the spring of 1942 to be included in the statistics of the fiscal year to which this report has reference; otherwise, the decrease in distribution of whitefish fry would have greatly exceeded 6.8 per cent.

#### Herring:

The collection of herring eggs is confined to the Bay of Quinte region, Lake Ontario, and to Lake Erie. For reasons similar to those cited in the discussion under whitefish, distribution of herring fry was 82.4 per cent. lower than that of the previous year.

#### Yellow Pickerel (Pike-Perch):

The distribution of pickerel fry was 43 per cent. less than that of the previous year. At Glenora hatchery the collection was reduced to about one-third the 1940 take due to a storm which destroyed the nets used to collect the pickerel. At Little Current the collection was about average. At Kenora and Fort Frances the collection was about 60 per cent. less, due to unusually hot weather prior to the usual spawning time. When spawning operations commenced the water temperature was high and, in fact, 40 per cent. of the pickerel handled had spawned naturally.

#### Small-Mouthed Black Bass:

The greatest effort was put forward to increase the number of black bass fingerlings planted, consistent with the facilities available. Reference to Appendix No. 2 will indicate how successful those efforts have been. The distribution of fingerlings was 54 per cent. greater than that of the previous year. At the same time the number of fry planted was substantial.

#### Large-Mouthed Black Bass:

The distribution of large-mouthed black bass fingerlings was 5,500 in 1940 and 17,700 in 1941.

It should be stated that only two small ponds were used for this work.

#### Yellow Perch:

The number of perch eggs collected in the vicinity of the Kingsville hatchery, Lake Erie, is subject to wide fluctuations each year. Although much lower than some previous collections, the 1941 take was 143 per cent. greater than the take of 1940.

#### Maskinonge:

The distribution of maskinonge fry was 10 per cent. less than that of the preceding year. In addition, 1,494 fingerlings were planted.

In the culture of maskinonge, provided the temperature gradient is rising with no sudden or serious drops, a good yield of eggs should be obtained and a good hatch of fry result. Since the establishment of a maskinonge hatchery at Deer Lake, Peterborough County, much better results have been obtained, as the temperature of the water is more constant during the developing and hatching period.

After feeding starts, the chief obstacles which have not been surmounted, entirely, are cannibalism, inadequate food supply and predators. Cannibalism has been overcome to some extent at least by encouraging the development of vegetation in the pond; this helps to protect the fish from one another. The supply of adequate amounts of natural food, since maskinonge fry will not take artificial food, is another means of reducing cannibalism. As is well known, maskinonge are voracious feeders and large amounts of natural food varying in size from minute water fleas and insects to minnows must be provided. Minnows are taken by the maskinonge before the latter are two inches in length. The pond is fertilized to stimulate the growth of aquatic life and vegetation, thereby increasing the food supply, and facilities are available for raising minnows. It was found, however, that these facilities were not sufficient, and it was necessary to harvest minnows from adjacent waters. One difficulty in supplying minnows is that they are not always available early enough to keep pace with the requirements of the maskinonge. The forage minnow which was used, although very satisfactory from some standpoints, is too late in spawning to be of use in the early feeding of the young maskinonge. In order to overcome this difficulty the silvery minnow, an early spawner, is now being cultured.

Aquatic vegetation in a pond acts as a refuge for valuable insects as well as for predatory insects. During the year under discussion large numbers of nymphs of the large water bug, and also a smaller variety of water bug, developed in the pond. These bugs are so constructed that they are difficult to observe among the aquatic vegetation as they have considerable protective resemblance to the neighbouring vegetation and to the environment, generally. They are predaceous and have mouth parts adapted for piercing and sucking, and they attack not only small fry but sizable fingerlings. The nymphs are air breathers and, as it is necessary for them to come to the surface of the water to breathe, in order to exterminate them the surface of the water was covered with a thin film of gasoline (kerosene or coal oil is equally effective). When the larvae were exposed to this treatment for an hour they were destroyed.

#### CLOSED WATERS

One of the practical methods of conserving the breeding stock of fish is to close natural water areas to all fishing permanently, or for different periods of time, and in these areas the fish thrive without interference and spread to other parts of the same

lake or river. By such means a permanent breeding stock is set up, and there is taken each year only the natural increase from it.

In addition to the waters already closed for the natural protection and propagation of fish, the following were closed during the year, April 1, 1941, to March 31, 1942:

#### BEAVER RIVER,

From the boat houses to the eastern limit of the village of Beaverton, commonly known as "Bass Spawning Beds", closed during the closed season for black bass.

#### GEORGIAN BAY (Portion located as follows):

- (a) An area approximately 1 mile square lying west of Electric Island;
- (b) An area approximately 1 mile square lying west of lot 51, concession VIII, Township of Harrison, District of Parry Sound;
- (c) An area lying east of and extending approximately 2 miles along the shore line opposite concessions XIII and XIV, Township of Harrison, District of Parry Sound.

#### OSBORNE, RAINBOW, HILL, PROSPECT, TEA and MINK LAKES, Township of Bridgland, District of Algoma.

#### KEKEKWA LAKE,

Southeast of Eagle Lake and north of Upper Manitou Lake, District of Kenora.

#### TWIN LAKES,

Township of Hudson, District of Timiskaming; closed to angling May 20 to June 28, in each year, to protect black bass.

#### WHITEFISH, BASS and CLEAR LAKES,

Township of Humphrey, District of Parry Sound; prohibiting winter fishing.

#### WHITE PINE LAKE,

Township of Gamble, Timagami Forest Reserve, District of Timiskaming.

#### REMOVAL OF COARSE FISH

During their spawning run, ling were harvested from Crow Lake, Oso Township, and Fish Creek (Bobs Lake), Township of Bedford, County of Frontenac, and Otty Lake, Township of North Elmsley, County of Lanark. The take was as follows:

	Number of Ling	Average Weight	Total Weight	
Crow Lake	. 512	8 lbs.	4,096 lbs.	
Bobs Lake	2,109	9 lbs.	18,981 lbs.	
Otty Lake	. 79	2 lbs.	158 lbs.	
	Total		23,235 lbs., or 11.6 tons	

A thaw set in after the net was set in Gibbs Creek (Otty Lake) which interfered with the effectiveness of the operations.

#### BIOLOGICAL SURVEYS

A biological survey of Tanner's Lake, concession VII, lot 31, N. Dumfries Township, County of Waterloo, indicated that it was suitable for large-mouthed black bass. A pond at the water-works pumping station in the City of Guelph was suggested as a rearing pond for brown trout by the Wellington County Fish and Game Protective Association. It was recommended that this pond should be given an experimental trial but not on a large scale, as its value for the purpose is doubtful.

Union Creek, concessions X to XV, Galway Township, County of Peterborough, was studied from the standpoint of its suitability for fish and it was recommended as being suitable for brown trout.

The power dam at Healey Falls was examined regarding fish drawn into the penstocks. This dam is located on the Trent River near Campbellford. It was recommended that a grating be installed some distance away from the penstocks.

The Lynn River, Woodhouse Township, County of Norfolk, was examined for possible pollution and its suitability for brown trout. At the time of the investigation there was no evidence of active pollution.

An investigation of the pollution of Guncotton Bay, on the Georgian Bay, vicinity of Nobel, was made. It was found that the effluent repelled the fish from the area. If it is found necessary to precipitate the toxic substances from solution, thorough filtration or settling-out methods must be used in order to prevent any permanent damage to this particular water-area. The damage being done at the time of the investigation was only of a temporary nature and had no permanent effect on the bottom condition of the bay.

MacGregor Creek, a tributary of the Thames River, in the vicinity of Chatham, was investigated and it was found that commercial effluents from industrial plants and domestic sewage cause the pollution which should be controlled or eliminated.

Early in August, residents of Rockland and Clarence reported dead fish of all sizes and species on the shores of the Ottawa River. A joint investigation was conducted by officials of the provinces of Ontario and Quebec, and recommendations were submitted on the basis of the enquiry.

Pollution of the Moira River between Corbyville and Belleville was investigated and was found to be caused by industrial wastes, and recommendations were made with a view to controlling the wastes in question. The precipitation and settling-out of the wastes were not efficient due to the shallowness of the settling basins and the porous rock underneath. It was recommended that the use of molasses in the operations should be confined to winter months when the water is colder and in greater volume.

An investigation was made in regard to washings of clay and mud into a stream from a gravel pit at the northern city limits of Waterloo. It was found that the stream bed was covered with clay and mud, that settling basins of adequate capacity were required, and that the basins should be dredged out at intervals. Satisfactory control of this particular pollution problem was undertaken by those responsible for it.

During the period, September 8 to 12, 1941, nets of various mesh were set off Port Maitland, Lake Erie, for the purpose of determining the efficiency of the different mesh for the taking of perch.

The Ontario Fisheries Research Laboratory of the Department of Zoology, University of Toronto, continued field and laboratory studies of lakes and streams in Algonquin Park.

Yearling speckled trout were provided by the Ontario Department of Game and Fisheries and were distributed through the co-operation of the Park staff and the

members of the Laboratory. The lakes which were stocked are included in the list in Appendix No. 1 under the District of Nipissing.

The experiment on the alternate annual closure of lakes was continued. The purpose of the experiment was to determine the value of the alternate annual closure of lakes as a means of increasing and maintaining the stock of game fish in those waters. As a part of this plan, lakes adjacent to one another are closed in alternate years so that any area will have lakes open to fishing each year, and lakes which are closed and in which the stock is given every opportunity to increase. In this way anglers taking a trip through the Park will find waters open to angling along any canoe route which they wish to travel.

The 21 lakes which were closed in 1940 were open in 1941, and in 1941 there were 17 other lakes closed which will in turn be open to fishing in 1942.

The results of the closures are now becoming evident. The speckled trout are showing an immediate favorable response, and the lake trout are responding favorably, but more slowly because of their slower rate of growth. The total result is that there is an increase in the number of fish available to the angler and the fish are showing an increase in size as a result of the closure. These favorable results are much more marked in some lakes than in others.

It is most desirable to carry on this procedure for some time yet on the experimental basis to properly evaluate its influence upon both the speckled trout and the lake trout in the different lakes.

The rate at which speckled trout grow is quite well known as they have been raised in hatcheries where they are often kept for years and the growth of wild trout has been determined by studies of the rings formed on the scales. Little is known about the rate of growth of lake trout and yet this information is necessary if we are to understand the results of the closure of lakes on the lake trout fishery. To this end a study of the rate of growth of lake trout in two Algonquin Park lakes has been started by Dr. Fry who has found in general that lake trout show approximately the following age-length relations:

Age in years	Length in inches
3	8
4	10.5
5	11.5
6	12.5
7	13.5

In order to evaluate more completely the stocking of the lakes and the alternate annual closure it is most important that the anglers continue their co-operation as they have in the past with the collection of complete creel census of all species of fish taken in all the waters of Algonquin Park.

With the demands of war taking its toll upon the staff of the Fisheries Laboratory this co-operation of the anglers is increasingly important and valuable as the reduced staff of the Laboratory is finding it increasingly difficult to carry out all the work necessary to measure these fish cultural activities, so that we look to the anglers for increased assistance in this field.

The stocking of the lakes, the alternate annual closure, and the measurement of the results of these methods are the most important fish cultural activities of the Laboratory as a war measure. Most of the other activities have been reduced to a minimum for the duration.

Work on the insect population of streams as food supply for speckled trout was continued on a reduced scale as also was the study of the food of the lake trout and the factors responsible for the movement of the game fish at different seasons of the year."

#### ACKNOWLEDGMENTS

I cannot close this report without expressing my appreciation of the valuable co-operation which was provided throughout the year by the Ontario Federation of Anglers and Hunters, and the many local Game and Fish Protective Associations which comprise the Federation and by the Northern Ontario Tourist Trade Association. The organized efforts of these Federations to develop the spirit of conservation has been of inestimable assistance and has resulted in many pleasant and desirable connections. Favourable mention might also be made of the genuine assistance and co-operation which has at all times been provided by the Township Councils or the Controlling Organizations in the Regulated Game Preserves. The success which this scheme has attained would probably not have resulted without such co-operation.

My concluding comments concern the work of the staff. Members of the Departmental service, both at Toronto and throughout the Province, have been quite conscientious in the performance of their duties, and generally courteous in their contacts with the public in their efforts to secure the best results.

All of which is respectfully submitted.

I am, Sir,

Your obedient servant,

D. J. TAYLOR,

Deputy Minister of Game and Fisheries.

#### APPENDIX No. 1

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS, APRIL 1st, 1941, to MARCH 31st, 1942.

LARGE-MOUTHED BLACK	BASS	Elgin	3,000
$\mathtt{FRY}$		Frontenac	21,200
Bruce	20,000	Grey	2,000
Frontenac	10,000	Haldimand	1,500
Huron	10,000	Haliburton	5,500
Leeds	50,000	Halton	1,250
Peterborough	10,000	Hastings	16,600
Victoria	10,000	Huron	3,800
victoria	10,000	Lanark	10,750
Total	110,000	Leeds	4,600
10001	110,000	Lennox, Addington	8,000
FINGERLINGS		Manitoulin	79,000
		Middlesex	4,400
Bruce	500	Muskoka	11,000
Grey	500	Nipissing	122,700
Lincoln	1,500	Oxford	1,000
Muskoka	2,000	Parry Sound	41,000
Northumberland	500	Peel	1,000
Oxford	1,300	Peterborough	25.100
Parry Sound	8,400	Prince Edward	7,500
Simcoe	1,000	Renfrew	10,700
Victoria	2,000	Simcoe	11,700
_		Sudbury	156,775
Total	17,700	Thunder Bay	8,000
	,	Timiskaming	1.500
ADULTS		Victoria	6.000
Oxford	28		
York	81	York	3,000
-		Total	601 025
Total	109	Total	691,925
		YEARLINGS AND ADUL	TC
SMALL-MOUTHED BLACK	BASS		
SMADD-MOUTHED DEACH	MANG		367
7777.77		Algoma	0.0
FRY		Brant	36
FRY Bruce	40,000	Brant	25
	35,000	Brant	25 86
Bruce	35,000 20,000	Brant Carleton Frontenac Hastings	$   \begin{array}{r}     25 \\     86 \\     550   \end{array} $
Bruce Frontenac	35,000	Brant Carleton Frontenac Hastings Lanark	25 86 550 20
Bruce	35,000 20,000	Brant Carleton Frontenac Hastings Lanark Leeds	25 86 550 20 79
Bruce Frontenac Grenville Haliburton	35,000 20,000 105,000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington	25 86 550 20 79 300
Bruce Frontenac Grenville Haliburton Hastings	35,000 20,000 105,000 60,000	Brant Carleton Frontenac Hastings Lanark Leeds	25 86 550 20 79 300 70
Bruce Frontenac Grenville Haliburton Hastings Lanark	35,000 20,000 105,000 60,000 45.000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington	25 86 550 20 79 300
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington	35,000 20,000 105,000 60,000 45,000 30,000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex	25 86 550 20 79 300 70
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds	35,000 20,000 105,000 60,000 45,000 30,000 25,000 114,000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka	25 86 550 20 79 300 70 195
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka	35,000 20,000 105,000 60,000 45,000 30,000 25,000 114,000 185,000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford	25 86 550 20 79 300 70 195 84
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing	35,000 20,000 105,000 60,000 45,000 30,000 25,000 114,000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound	25 86 550 20 79 300 70 195 84
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing Ontario	35,000 20,000 105,000 60,000 45,000 30,000 25,000 114,000 80,000 40,000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound Peterborough	25 86 550 20 79 300 70 195 84 150 220
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing Ontario Parry Sound	35,000 20,000 105,000 60,000 45,000 30,000 25,000 114,000 80,000 40,000 370,000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound Peterborough	25 86 550 20 79 300 70 195 84 150 220
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing Ontario Parry Sound Peterborough	35,000 20,000 105,000 60,000 45,000 25,000 114,000 80,000 40,000 370,000 167,500	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound Peterborough Miscellaneous	25 86 550 20 79 300 70 195 84 150 220
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing Ontario Parry Sound Peterborough Renfrew	35,000 20,000 105,000 60,000 45.000 30,000 25,000 114,000 80 000 40.000 370 000 167 500 30.000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound Peterborough Miscellaneous	25 86 550 20 79 300 70 195 84 150 220
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing Ontario Parry Sound Peterborough Renfrew Simcoe	35,000 20,000 105,000 60,000 45,000 30,000 25,000 114,000 80,000 40,000 370,000 120,000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound Peterborough Miscellaneous	25 86 550 20 79 300 70 195 84 150 220
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing Ontario Parry Sound Peterborough Renfrew Simcoe Stormont	35,000 20,000 105,000 60,000 45,000 30,000 25,000 114,000 80,000 40,000 370,000 120,000 5,000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound Peterborough Miscellaneous	25 86 550 20 79 300 70 195 84 150 220
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing Ontario Parry Sound Peterborough Renfrew Simcoe Stormont Sudbury	35,000 20,000 105,000 60,000 45,000 30,000 25,000 114,000 80,000 40,000 370,000 120,000 5,000 180,000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY	25 86 550 20 79 300 70 195 84 150 220 72
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing Ontario Parry Sound Peterborough Renfrew Simcoe Stormont Sudbury Victoria	35,000 20,000 105,000 60,000 45,000 30,000 25,000 114,000 80,000 40,000 370,000 167,500 30,000 120,000 5,000 180,000 160,000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Carleton	25 86 550 20 79 300 70 195 84 150 220 72 2,254
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing Ontario Parry Sound Peterborough Renfrew Simcoe Stormont Sudbury Victoria Waterloo	35,000 20,000 105,000 60,000 45,000 30,000 25,000 114,000 80,000 40,000 370,000 120,000 5,000 180,000 160,000 80,000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Carleton Grenville	25 86 550 20 79 300 70 195 84 150 220 72 2,254
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing Ontario Parry Sound Peterborough Renfrew Simcoe Stormont Sudbury Victoria	35,000 20,000 105,000 60,000 45,000 30,000 25,000 114,000 80,000 40,000 370,000 167,500 30,000 120,000 5,000 180,000 160,000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Carleton Grenville Haldimand	25 86 550 20 79 300 70 195 84 150 220 72 2,254 25 000 30 000 10,000
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing Ontario Parry Sound Peterborough Renfrew Simcoe Stormont Sudbury Victoria Waterloo Wellington	35,000 20,000 105,000 60,000 45,000 30,000 25,000 114,000 80,000 40,000 370,000 120,000 5,000 180,000 160,000 20,000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Carleton Grenville Haldimand Haliburton	25 86 550 20 79 300 70 195 84 150 220 72 2,254 25 000 30 000 10,000 10,000
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing Ontario Parry Sound Peterborough Renfrew Simcoe Stormont Sudbury Victoria Waterloo	35,000 20,000 105,000 60,000 45,000 30,000 25,000 114,000 80,000 40,000 370,000 120,000 5,000 180,000 160,000 20,000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Carleton Grenville Haldimand Haliburton Hastings	25 86 550 20 79 300 70 195 84 150 220 72 2,254 25 000 30 000 10,000 180,000
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing Ontario Parry Sound Peterborough Renfrew Simcoe Stormont Sudbury Victoria Waterloo Wellington	35,000 20,000 105,000 60,000 45,000 30,000 25,000 114,000 80,000 40,000 370,000 120,000 5,000 180,000 160,000 20,000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Carleton Grenville Haldimand Haliburton Hastings Leeds	25 86 550 20 79 300 70 195 84 150 220 72 2,254 25 000 30 000 10,000 10,000 180,000 40,000 40,000
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing Ontario Parry Sound Peterborough Renfrew Simcoe Stormont Sudbury Victoria Waterloo Wellington  Total	35,000 20,000 105,000 60,000 45.000 30,000 25,000 114,000 80,000 40,000 370,000 120,000 5,000 180,000 160,000 20,000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Carleton Grenville Haldimand Haliburton Hastings Leeds Muskoka	25 86 550 20 79 300 70 195 84 150 220 72 2,254 25 000 30 000 10,000 10,000 180,000 40,000 45,000
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing Ontario Parry Sound Peterborough Renfrew Simcoe Stormont Sudbury Victoria Waterloo Wellington  Total  FINGERLINGS Algoma	35,000 20,000 105,000 60,000 45,000 30,000 25,000 114,000 80,000 370,000 120,000 5,000 180,000 20,000 1,911,500	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Carleton Grenville Haldimand Haliburton Hastings Leeds Muskoka Nipissing	25 86 550 20 79 300 70 195 84 150 220 72 2,254 25 000 30 000 10,000 10,000 40,000 40,000 40,000
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing Ontario Parry Sound Peterborough Renfrew Simcoe Stormont Sudbury Victoria Waterloo Wellington  FINGERLINGS Algoma Brant	35,000 20,000 105,000 60,000 45,000 30,000 25,000 114,000 80,000 40,000 370,000 120,000 5,000 180,000 20,000 1,911,500	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Carleton Grenville Haldimand Haliburton Hastings Leeds Muskoka Nipissing Northumberland	25 86 550 20 79 300 70 195 84 150 220 72 2,254 25 000 30 000 10,000 10,000 40,000 40,000 40,000 165,000
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing Ontario Parry Sound Peterborough Renfrew Simcoe Stormont Sudbury Victoria Waterloo Wellington  Total  FINGERLINGS Algoma Brant Bruce	35,000 20,000 105,000 60,000 45,000 30,000 25,000 114,000 80,000 40,000 370,000 120,000 5,000 180,000 20,000 1,911,500 112,250 1,000 8,600 8,600	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Carleton Grenville Haldimand Haliburton Hastings Leeds Muskoka Nipissing Northumberland Ontario	25 86 550 20 79 300 70 195 84 150 220 72 2,254 25 000 30 000 10,000 10,000 40,000 40,000 40,000 40,000 40,000 40,000 45,000 45,000 45,000 45,000 45,000 45,000 45,000 45,000
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing Ontario Parry Sound Peterborough Renfrew Simcoe Stormont Sudbury Victoria Waterloo Wellington  Total  FINGERLINGS Algoma Brant Bruce Carleton	35,000 20,000 105,000 60,000 45,000 30,000 25,000 114,000 80,000 370,000 167,500 30,000 120,000 180,000 20,000 1,911,500 1,000 8,600 1,000 8,600 1,000 8,600 1,000 8,600 1,000 8,600 1,000 8,600 1,000 8,600 1,000 8,600 1,000	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Carleton Grenville Haldimand Haliburton Hastings Leeds Muskoka Nipissing Northumberland Ontario Parry Sound	25 86 550 20 79 300 70 195 84 150 220 72 2,254 25 000 30 000 10,000 10,000 40,000 40,000 45,000 45,000 45,000 40,000 10,000
Bruce Frontenac Grenville Haliburton Hastings Lanark Leeds Lennox, Addington Manitoulin Muskoka Nipissing Ontario Parry Sound Peterborough Renfrew Simcoe Stormont Sudbury Victoria Waterloo Wellington  Total  FINGERLINGS Algoma Brant Bruce	35,000 20,000 105,000 60,000 45,000 30,000 25,000 114,000 80,000 40,000 370,000 120,000 5,000 180,000 20,000 1,911,500 112,250 1,000 8,600 8,600	Brant Carleton Frontenac Hastings Lanark Leeds Lennox, Addington Middlesex Muskoka Oxford Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Carleton Grenville Haldimand Haliburton Hastings Leeds Muskoka Nipissing Northumberland Ontario	25 86 550 20 79 300 70 195 84 150 220 72 2,254 25 000 30 000 10,000 10,000 40,000 40,000 40,000 40,000 40,000 40,000 45,000 45,000 45,000 45,000 45,000 45,000 45,000 45,000

# SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1st, 1941, to March 31st, 1942—Continued

MASKINONGE—Continu	ned	Sudbury	12,400,000
Prince Edward	25,000	Thunder Bay	
Renfrew	50,000	Timiskaming	
Simcoe	35,000	Victoria	
Stormont	20,000	Great Lakes	18,500,000
Victoria	280,000	Matal 6	222 400 000
Waterloo	5,000	Total	123,490,000
York	25,000	BROWN TROUT	
		FINGERLINGS	
Total	2,100,000		10.000
		Brant	$10,000 \\ 40,000$
FINGERLINGS		Elgin Norfolk	10,000
Nipissing	300	NOTIOIR	10,000
Peterborough	794	Total	60,000
Victoria	400	10001	00,000
		YEARLINGS	
Total	1,494	Brant	17,800
		Bruce	32,800
PERCH		Carleton	3,600
FRY		Durham	6,200
	20 600 000	Elgin	24,750
Lake Erie	1 000 000	Grey	47,700
Lake St. Clair	1,000,000	Haldimand	1,000
Total	31 600 000	Haliburton	150
	31,000,000	Halton	26,400
		Hastings	9,800
PICKEREL		Huron	$12,000 \\ 1,000$
EYED EGGS		Lambton	2,000
Exchange	2,000,000	Lanark Lincoln	1,000
Kenora	500,000	Middlesex	3,850
Muskoka	2,000,000	Norfolk	28.050
0		Northumberland	5,300
Total	4,500,000	Ontario	1,800
FRY		Oxford	10 200
	10 500 000	Peel	5,100
Algoma		Perth	3,600
Bruce	2,200,000 $1,500,000$	Peterborough	15,790
Cochrane	3,500,000	Simcoe	36,000
Essex	500,000	Timiskaming	1,800
Frontenac	9,350,000	Waterloo	10,800 $4,100$
Grenville	1,250,000	Welland	24,100
Grey	800,000	Wentworth	1.200
Haldimand	750,000	York	7,600
Haliburton	1,450,000	Miscellaneous	698
Hastings	5,250,000		
Kenora		Total	346,188
Lanark	6,700,000	TATE MEATING	
Leeds	3,250,000	LAKE TROUT	
Lennox, Addington	2,050,000	EYED EGGS	000 000
Manitoulin	9,100,000 $4,500,000$	Exchange	800,000
Muskoka	3,250.000	FRY	
Nipissing	8,000,000	Frontenac	161,000
Northumberland	2,800,000	Hastings	102.500
Ontario		Lanark	8,000
Parry Sound		Leeds	17,500
Peterborough		Lennox, Addington	34,000
Prince Edward	9,790,000	Peterborough	80,000
Rainy River		Rainy River	330,000
Renfrew	6,800 000	Thunder Bay	120.000
Russell	1,000,000	Great Lakes	60,000
Simcoe	7,000.000	Total	913,000
Stormont	500,000	Total	a10,000

# SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1st, 1941, to March 31st, 1942—Continued

LAKE TROUT—Continu	ied	SPECKLED TROUT	
FINGERLINGS		FINGERLINGS	
Algoma	636,200	Algoma	105,000
Cochrane	60,000	Grey	22,000
Haliburton	290,500	Muskoka	1,000
Hastings	40,000	Nipissing	5,000
Kenora	345,000		110,000
Leeds	5,000		
Lennox, Addington	10,000	Peel	150,000
Manitoulin	90,000	Miscellaneous	1,000
Muskoka	350,000	—	
Nipissing	220,000	Total	394,000
	295,000		•
Parry Sound	5,000	YEARLINGS	
Peterborough	205,200		
Rainy River		Algoma	514,150
Renfrew	180.000	Brant	500
Simcoe	75.000	Bruce	16,000
Sudbury	210,000	Cochrane	176,700
Timiskaming	144.000	Dufferin	33,700
Great Lakes	14,905,500	Durham	18,250
			,
Total	18,066,400	Elgin	2,600
		Frontenac	48,526
		Grey	167,400
RAINBOW TROUT		Haliburton	43,300
FINGERLINGS		Hastings	113,480
	100.000	Huron	7,100
Algoma	100,000	Kenora	9,000
Nipissing	5,000	Lanark	13,200
Sudbury	33,500		1,600
Timiskaming	24,000	Leeds	41,500
Miscellaneous	1,500	Lennox, Addington	
		Lincoln	1,000
Total	164,000	Manitoulin	100,000
	,	Muskoka	160,000
YEARLINGS		Nipissing	194,220
		Norfolk	7,350
Dufferin	3,600	Northumberland	21,950
Elgin	500	Ontario	12,000
Haliburton	1,500		750
Norfolk	2,500	Oxford	162,400
Simcoe	1,500	Parry Sound	,
Miscellaneous	2,150	Peel	12,800
		Peterborough	48,191
Total	11,750	Renfrew	119,020
x 0 tu 1	11,100	Simcoe	27,500
		Sudbury	338,900
KAMLOOPS TROUT		Thunder Bay	494,800
			136,600
FINGERLINGS		Timiskaming	1,100
Algoma	84,650	Victoria	2,550
Sudbury	3,500	Waterloo	
		Wellington	<b>5,100</b>
Total	88,150	York	500
	,	Miscellaneous	17,237
YEARLINGS		_	
	4 500	Total	3,060,174
Bruce	1,500		
Grey	2.900		
Muskoka	13,500	$\mathbf{ADULT}$	
Parry Sound	3,300	Algoma	4,250
Peterborough		Thunder Bay	5,287
Timiskaming		Timiskaming	6,620
Miscellaneous	,	Miscellaneous	575
miscendieous	300	miscentaneous	
Total	25,000	Total	16,732

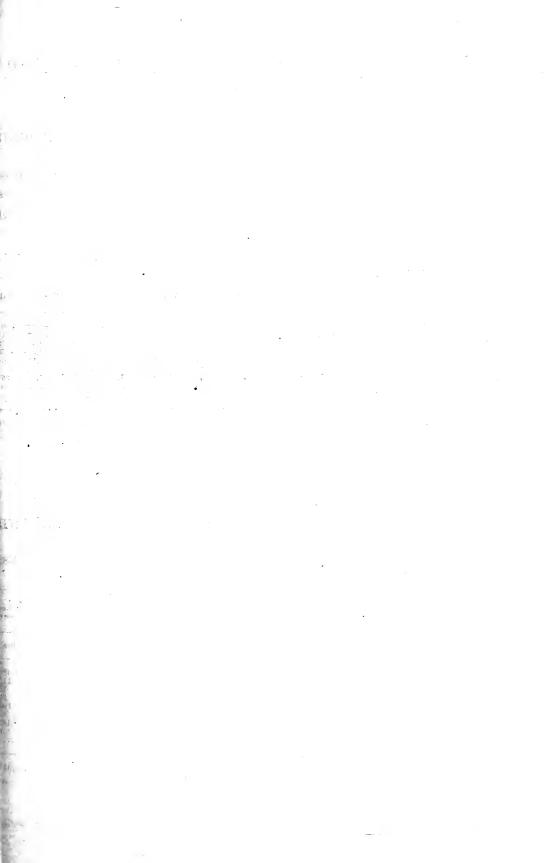
# SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1st, 1941, to March 31st, 1942—Continued

WHITEFISH	HERRING FRY					
$\mathbf{FRY}$						
Kenora 18,180,000	Carleton	500,000				
Prince Elward 16,000,000	Frontenac	300,000				
Rainy River 11,811,000	Hastings	200,000				
Simcoe 3,000,000	Lennox, Addington	900,000				
Thunder Bay 250,000	Prince Edward	3,000,000				
Great Lakes326,719,500	Great Lakes	3,730,000				
Total	Total	8,630,000				

APPENDIX No. 2
DISTRIBUTION OF FISH ACCORDING TO SPECIES—1937 TO 1941, INCLUSIVE

	1937	1938	1939	1940	1941
Large-mouthed Black Bass					
Fry Fingerlings Yearlings & Adults	135,000 4,120 92	57,500 8,061	1,890 497	230,000 5,500 152	110,000 17,700 109
Small-mouthed Black Bass					
Fry Fingerlings Yearlings & Adults	1,275,000 141,900 5,893	804,000 169,800 7,738	1,386,000 226,325 7,739	2,512,500 449,154 1,671	1,911,500 691,925 2,254
Maskinonge					
Eyed Eggs Fry Fingerlings	420,700	2,005,000	120,000 2,675,000 1,300	2,345,000 2,333	2,100,000 1,49
Perch—Fry	9,150,000	59,150,000	72,360,000	13,000,000	31,600,00
Pickerel (Yellow)					
Eyed Eggs Fry Adults	2,000,000 263,743,400	2,012,500 271,567,500	7,000,000 327,500,000	2,000,000 393,887,000 100	4,500,000 223,490,000
Pickerel (Blue)					
Fry	1,000,000	500,000	•••••		
Brown Trout					
FingerlingsYearlings	97,484	59,592*	29,954 375,070	182,725 252,000	60,00 346,18
Lake Trout					
Eyed Eggs Fry Fingerlings	3,225,000 4,667,000 15,782,350	2,437,000 7,665,000 10,575,200	1,845,850 7,236,900 9,964,400	575,000 7,564,000 7,312,100	800,00 913,00 18,066,40
Atlantic Salmon					
Fry Fingerlings Yearlings	7,200	4,800		46,385	
Rainbow Trout					
Fingerlings Yearlings Adults	105,240	321,600 6,727	109,635 23,145 1,009	298,420 19,724	164,00 11,75
Kamloops Trout					
FingerlingsYearlings	80,000	25,821	105,000	26,500	88,15 25,00
Speckled Trout					
Eyed Eggs Fingerlings Yearlings Adults	384,725 1,167,073 16,150	1,000 373,314 2,083,538 4,452	337,000 2,976,559 6,315	611,375 3,278,114 7,150	394,00 3,060,17 16,73
Whitefish					
Eyed Eggs	4,000,000 383,683,900	323,700,500	326,657,000	403,339,000	375,960,50
Herring					
Eyed Eggs Fry	30,000 5,270,000	49,725,000	38,550,000	49,050,000	8,630,00
Miscellaneous	3,053		41		
					}

<sup>\*</sup> Yearlings and adults.



#### **APPENDIX**

#### GAME AND FISHERIES

Statistics of the Fishing Industry in the Public Waters of

#### EQUIP

District		No. of Tugs Men		Gasoline Launches		Sail and Row Boats		Gill Nets		
		No.	Tons	Value	No.	Value	No.	Value	Yards	Value
Northern Inland Waters Lake Superior North Channel Georgian Bay Lake Huron Lake St. Clair Lake Erie Lake Ontario Southern Inland Waters	396 126 436 284 130 784 541	11 6 25 18  42	827	\$ 11,450 64,500 36,800 120,556 101,300	104 37 120	\$ 70,975 44,680 18,750 100,737 58,904 14,200 194,415 111,860 770	70 43 120 26 75	4,550 2,240 5,661 2,590 4,060 6,095 3,744	830,237 539,420 1,419,303 1,350,620 2,225,520	153,716 154,077 367,054 137,285
Totals	3,608	107	2,236	\$621,906	910	\$615,291	931	\$46,128	8,126,453	\$ 1,040,912

## **APPENDIX**

### QUANTITIES OF

District	Herring	Whitefish	Trout	Pike	Pickerel (Blue)	Pickerel (Dore)	
	ibs.	lbs.	lbs.	lbs.	tbs.		
Northern Inland Waters Lake Superior North Channel Georgian Bay Lake Huron Lake St. Clair Lake Erie Lake Ontario Southern Inland Waters	6,143 1,433,139 7,983 63,719 188,594 	3,358,647 441,577	1,298,485 211,597 1,501,631 1,109,786 40 125,790	24,873 1,241 34,019 46,522 47,099	18,152 150 200 1,543,808	6,647	
Totals	3,736,972	6,369,932	4,412,137	1,101,136	1,620,949	2,311,413	
Price per pound	.05	.11	.11	.06	.05	.11	
Values	\$186,848.60	\$700,692.52	\$485,335.07	\$66,068.16	\$81,047.45	\$254,255.43	

No. 3

#### DEPARTMENT, ONTARIO

the Province of Ontario, for the year ending December 31st, 1941.

#### MENT

	Seine l	Nets	Poun	d Nets	Hoor	Nets		and Nets	Night	Lines	Sr	ears ·		ezers & Houses		ers and harves	Total Value
No.	Yards	Value	No.	Value	No.	Value	No.	Value	No. Hooks	Value	No.	Value	No.	Value	No.	Value	
			45			\$ 991	1	\$ 1	1,580	\$313							
			57						4	5							
6	1,000	\$ 850	40 79	16,950 76,480		725			21,300	2 004			32	12,475 16,250			
1	1,000	8 650	103			123	1	4	7,216							6,266	
27	7.100		112						3,300					9,150			
32	9,080		553					20	900					176,290		32,600	1,348,625
6	590				345				2,100	83			32	7,920	26	5,405	276,674
33	2,860	2,300		· · · · · · · · ·	169	3,798		46	600	15			16	1,395	1	300	11,362
-						\$	<u></u>			<b></b>	-	<u> </u>	<u> </u> -	<u> </u>	<u> </u>		
104	20,630	\$13,935	989	\$485,600	634	16,624	39	\$808	37,000	\$4,432			515	\$302,486	384	\$112,319	\$3,260,441

## No. 4

#### FISH TAKEN

Sturgeon	Eels	Perch	Tullibee	Catfish .	Carp	Mixed Coarse	Caviare	Total	Value	
lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.		
				42,639	10,241	392,933	1,415	4,503,748	\$429,182.4	
						163,314		3,435,702		
		208,705			6,386					
10,587				99,876	333,628					
					286,835					
6,245					150,232					
, ,	2,162	7,365		82,397	148,498	275,002	· · · · · · · · · · · · · · · · · · ·	517,440	22,907.3	
99,348	18,675	2,460,181	640,153	447,518	983,595	2,744,646	2,976	26,949,631		
.40	.07	.05	.06	.08	.05	.03	1.00			
\$39,739.20	\$1,807.25	\$123,009.05	\$38,409.18	\$35,801.44	\$49,179.75	\$82,339.38	\$2,976.00		\$2,147,008.4	

APPENDIX No. 5
COMPARATIVE STATEMENT OF THE YIELD OF THE FISHERIES OF ONTARIO

Kind	1940 Pounds	1941 Pounds	Increase Pounds	Decrease Pounds
Herring	3,597,785 6,368,617 4,364,071	3,736,972 6,369,932 4,412,137	139,187 1,315 48,066	
Pike Pickerel (Blue) Pickerel (Dore) Sturgeon	1,216,234 2,118,383 2,515,381 147,143	1,101,136 1,620,949 2,311,413 99,348	•	115,098 497,434 203,968 47,795
Eels Perch Tullibee Catfish	34,678 2,471,482 806,897 401,934	18,675 2,460,181 640,153 447,518	45,584	16,003 11,301 166,744
Carp Mixed Coarse Caviare	1,119,538 2,799,865 4,948	983,595 2,744,646 2,976		$135,553 \\ 55,219 \\ 1,972$
TOTALS	27,966,956	26,949,631		*1,017,325

<sup>\*</sup> Net Decrease

# APPENDIX No. 6 STATEMENT OF THE YIELD OF THE FISHERIES OF ONTARIO—1941

Kind	Quantity Pounds	Price per Pound	Estimated Value
Herring	3,736,972	.05	\$186,848.60
Whitefish	6,369,932	.11	700,692.52
Trout	4,412,137	.11	485,335.07
Pike	1,101,136	.06	66,068.16
Pickerel (Blue)	1,620,949	.05	81,047.45
Pickerel (Dore)	2,311,413	.11	254,255.43
Sturgeon	99,348	.40	39,739.20
Eels	18,675	.07	1,307.25
Perch	2,460,181	.05	123,009.05
Γullibee	640,153	.06	38,409.18
Catfish	447,518	.08	35,801.44
Carp	983,595	.05	49,179.75
Mixed Coarse	2,744,646	.03	82,339.38
Caviare	2,976	1.00	2,976.00
TOTALS	26,949,631		\$2,147,008.48

#### APPENDIX No. 7

## ESTIMATED VALUE OF FISH TAKEN FROM THE WATERS OF THE PROVINCE

1922-1941 INCLUSIVE

1922			
1923	 2,886,398.76	1933	 2,186,083.74
1924	 3,139,279.03	1934	 2,316,965.50
1925	 2,858,854.79	1935	 2,633,512.90
1926	 2,643,686.28	1936	 2,614.748.49
1927	 3,229,143.57	1937	 2,644.163.49
1928	 3,033,944.42	1938	 2,573.640.97
1929	 3,054,282.02	1939	 2,564,516.37
1930	 2,539,904.91	1940	 2.226,418.18
1931	 2.442.703.55	1941	 2,147,008.48

## Thirty-Sixth Annual Report

OF THE

# Game and Fisheries Department

1942 - 1943°

PRINTED BY ORDER OF THE LEGISLATIVE ASSEMBLY OF ONTARIO SESSIONAL PAPER No. 9, 1944



#### TO THE HONOURABLE ALBERT MATTHEWS,

Lieutenant-Governor of the Province of Ontario.

#### MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present the Thirty-sixth Annual Report of the Department of Game and Fisheries for the Province of Ontario, for the year ending 31st March, 1943.

Respectfully submitted,

G. H. DUNBAR,

Minister in Charge, Deportment of Game and Fisheries.

## THIRTY-SIXTH ANNUAL REPORT

OF THE

## Department of Game and Fisheries of Ontario

TO :THE HONOURABLE G. H. DUNBAR,

Minister in Charge,
Department of Game and Fisheries.

SIR-

I have the honour to submit to you herewith the Thirty-sixth Annual Report of the Department of Game and Fisheries outlining a summary of the activities of the various Departmental services, and including condensed statistics for the fiscal year ended March 31st, 1943, as well as certain comparative tables.

#### INTRODUCTORY

The natural resources of a nation form the foundation of a stable economic superstructure and its resultant wealth.

Wild-life is an integral part of the natural resources of the Province of Ontario, and an evaluation of its worth will show that it is an important part of the total economy of the entire Dominion. Briefly, it provides a measure of food and clothing, (fish, flesh and fur), through the usual channels of industry and through the sporting activities of countless thousands of our residents to whom its pursuit affords pleasure and healthful exercise; it creates employment for thousands of our citizens in the important fur industry and its related activities, in the commercial fishing industry in the manufacture and supply of necessary equipment, as well as for an army of guides, whose business it is to know where and how it may be obtained; it is the greatest asset of our tourist trade, in normal times one of the principal industries of the Province, and which plays an important part in fostering those friendly relations which have prevailed and which now prevail between us and our neighbours to the south.

While the economic value of the wild-life of this Province can thus be computed in monetary terms, it has a moral and recreational value which is of even greater importance particularly to our own residents, for it is the incentive which attracts countless thousands of people into the great outdoors, where the environment of field and stream is conducive to health, happiness and good citizenship.

Wild-life is a public trust, in which every citizen of the Province has an equity, and the administrative policies of the Department have been formulated and developed on that premise. It is essential that this division of our natural resources shall not be impaired and that its perpetuation shall be assured. Having this in mind the work of the Department has been directed towards the protection and rehabilitation of these resources and the progressive development of conservation policies intended to promote wise use without reduction of existing stock. Details of how these plans have been advanced during the period under review, as well as information on the present status of such resources, will be found elsewhere in this report.

The broad policy of conservation which has characterized administrative control for more than three decades has assumed a new importance during the present emergency. The public has become deeply conscious of the value of conservation as an aid to economic security

through the necessity for regulating supply and demand as determined by our war effort. This in turn has emphasized the contribution which wild-life makes to the food supply of the nation, and the necessity for public co-operation in its protection and sane use. The success of Departmental plans for maintaining an adequate reserve of fish and game to meet ever increasing demands depends in large measure upon public support, and it is pleasing to note that this phase of the conservation programme continues to receive encouragement and stimulation through the efforts of organized sportsmen.

Despite the national emergency and the curtailment of many activities occasioned thereby, provision has been made whereby it has been possible to carry on the essential work of the Department for the achievement of the foregoing objectives.

#### FINANCIAL

The following table shows the total revenue collected by this Department during this particular fiscal year. It outlines the various sources from which this revenue is derived and in detail gives the respective amount collected from each of these sources:—

#### REVENUE FOR THE FISCAL YEAR ENDING MARCH 31st, 1943

ORDINARY—		
MAIN OFFICE		
GAME—		
Licenses—		
Trapping .	\$ 39,602.45	
Non-resident hunting		
Deer	118,083.55	٠
Moose		
Gun	102.244.96	
Dog	6,450.55	
Fur Dealers	26,288.00	
Fur Farmers	0.050.00	
Tanners	130.00	
Cold Storage	209.00	
	396,876.01	
Royalty	122,032.15	<b>****</b>
FISHERIES—		\$518,908.16
Licenses—		
Fishing (Commercial)	74.355.00	
	306,263.85	
Angling	000,200	
,	380.618,85	
Royalty	10,152.32	
Noyang		\$390,771.17
GENERAL—		
Licenses—		
Tourist Camps	6,565.00	
Guides	6,840.00	
	13,405.00	
	17.718.20	
Fines	14,410.20	
Fines Costs Collected (Enforcement of Game Act)	546.00	

Rent .....

Commission—Retained by Province on sale of Licenses.	1.758.55	
Miscellaneous	1.315.56	
agrama.		52.671.56

Net Ordinary Revenue \$962,350.89

3.149.00

The total collections represent a decline of more than \$220,000.00 as compared with the revenue produced in the previous fiscal year. The principal reason for this decrease is the reduced amount of fees received from the sale of non-resident licenses, both angling and hunting. In 1941-42 the revenue from the sale of these licenses reached the impressive total of \$600,884.95. The amount received this year from this source was \$399,508.85, a decrease of more than \$201.000.00. This decrease had been anticipated and was unquestionably due to a condition to which reference was made in our previous Annual Report, viz:—the United States now being involved in war would necessarily result in restrictions on travel and transportation facilities, which with the added necessity of stern application to the producton of vital war material, would undoubtedly result in a very noticeable decrease in the number of American citizens visiting this country for vacation purposes. Other important reductions in the collection of revenue when compared with that of the previous fiscal year will be observed in the amounts received from the sale of commercial fishing licenses, which decreased \$13,500,00, from penalties imposed on those convicted of violations of provisions of the Game and Fisheries Act, and from the sale of articles confiscated following such convictions, which decreased \$16,000.00 and from fur royalties, which decreased \$8,500.00. may, however, be of interest to make reference to the fact that the amount of \$231.151.56 received from the sale of various types of hunting licenses to residents of Ontario was \$29,000.00 in excess of the amount derived from the same source in the preceding year.

The following tables include details with reference to the sale of hunting and angling licenses:

#### ANGLING LICENSES ISSUED

Non-resident:—	
Individual (Seasonal)	27.330
Individual (Three-day)	31,597
Family	14.388
Manitoba Residents	697
Boys' Camp	20
HUNTING LICENSES ISSUED	
Resident:—	
Deer	31.530
Deer (Camp)	373
Deer (Farmers')	7.288
Mcose	780
Gun	118.268
Non-resident:—	
Small Game	
Deer	1.518
General	795
Bear (Spring Season)	232

Details of expenditure, both ordinary and capital, are set forth in the following statement:—

### EXPENDITURE FOR THE FISCAL YEAR ENDED MARCH 31st, 1943.

#### ORDINARY-

	Main Office	\$ 52,385.16
	General	,000.20
	Enforcement	39,950.68
	The state of the s	209,647.93
	Game Animals and Birds	17.949.05
	Macdiarmid	3,673.20
	Biological and Fish Culture Branch	205,599.97
	Grants	5,400.00
	Wolf Bounty	33,606.62
	Special Warrant—Bear Bounty	3,640.00
Total	Ordinary	\$571,852.61
	Capital	2,879.88
Total	Expenditure	\$574.732.49

The principal items of expenditure were made for the payment of salaries and expenses of members of the Enforcement Service and for the maintenance of services provided by the Biological and Fish Culture Branch in connection with the raising, distribution and the planting of fish in suitable waters throughout the Province. More details of the work performed by these two important branches of the Department will be found further on in this report.

There is an additional item of expenditure included in this statement, i.e., for the payment of bounty on bears killed in certain sections of the Province, as provided by the Order-in-Council dated August 19th, 1942, more details of which regulation and expenditure are also incorporated later on in this report.

The sum of \$5.400.00 which was provided for the payment of grants was allotted as follows:—\$2,500.00 to the Ontario Fur Breeders Association to augment the funds of this organization and to permit them to continue their services on behalf of fur farmers who are established and operating in Ontario; \$500.00 to the Ontario Federation of Anglers and Hunters for their educational campaign, one of the principal objectives of which is to emphasize the importance of proper observance of provisions of the Game and Fisheries Act; \$500.00 to Professor W. J. K. Harkness for his services in connection with fish culture research and which services are supplementary to those provided by Departmental Biologists; and the remaining \$1,900.00 to Mr. Jack Miner, Mr. Thomas N. Jones and Miss Edith L. Marsh, who provide sanctuaries for birds, both migratory and native species, on their properties located respectively in the counties of Essex, Elgin and Grey.

From the year's operations it will be noted that there was a surplus of \$387,618.40 which may be considered a satisfactory condition.

The following table details Departmental revenue and expenditure for the various fiscal years from and including the period ended March 31st, 1936:—

	Revenue	Expenditure (Ordinary & Capital)	Surplus
1935-36	\$ 683,938.72	\$451,041.91	\$232,896.81
1936-37	782,217.63	474,128.95	318,088.68
1937-38	866,558.19	563,938.33	302,619.86
1938-39	914,475.24	575,437.79	339,037.45
1939-40	1,015,350.82	568,198.55	447,152.27
1940-41	984.800.69	512,834.70	471,965.99
1941-42	1,183,269.29	576,762.26	606,507.03
1942-43	962,350.89	574,732.49	387,618.40

#### GAME

Herewith is a summary of conditions as they apply to the various species of game animals and birds found in Ontario, which information has been compiled from reports secured from officers of the enforcement service throughout the Province:—

DEER:-Generally speaking in those portions of the Province in which the regular open season for the hunting of deer has been in effect conditions with reference to the prevalence of these animals have continued to be quite satisfactory. The period during which they may be lawfully taken as at present provided is not excessively lengthy, and those sportsmen who avail themselves of this opportunity for recreation have displayed an earnest desire to co-operate with the Department in complying with various regulations which govern and which have been provided by the Legislature and which are established on the premise that they are necessary for the future welfare of the existing deer herds. There is good reason to believe that the fine quality of hunting which is at present available in the various deer sections of this Province will prevail for the enjoyment of generations to come, provided there is no relaxation in the present regulations which apply and that the existing co-operation of hunters continues, and also that there arises no contingency detrimental to the existence of this species which is at present unforeseen. In many areas in the extreme southwestern portion of the Province in which this species has been provided the protection of an entire closed period for the past several years there has been a noticeable increase in the number of these animals and which improvement has resulted on some occasions in complaint to the Department regarding damage to field crops. The popularity of this branch of hunting is revealed in the fact that the number of Ontario residents who purchased licenses to hunt deer during the open season of 1942, exclusive of those who purchased farmer's licenses, showed an increase of twenty-five per cent over the number who purchasd such licenses during the previous year, or an increase of 6,305 in actual numbers.

The general open season for deer in Division (d), i.e., Southern Ontario, exclusive of the southwestern counties and certain eastern counties, was provided by order-in-council to extend from November 2nd to November 17th. The same period of open season was also provided for that portion of the County of Carleton lying west of the Rideau River, (excepting the Township of Marlborough) and for the Township of Roxborough in the County of Stormont. In the Counties of Simcoe, Dufferin, Grey and Bruce and the northern portion of the County of Huron the hunting of deer was permitted during the period from November 16th to 21st, with the provision that no dogs were to be used during this open season.

The Counties of Northumberland, Durham and Prince Edward and that portion of the County of Ontario lying south of the north boundaries of Brock and Scott Townships as well as the Township of Cambridge in the County of Russell, were included among the areas in which the hunting of deer was prohibited at all times.

MOOSE:—Conditions applicable to moose showed no important changes during the year. Some slight increase was reported in scattered areas in the northern portion of the Province which are favourable to their existence, but as a general rule they are not found in sufficient numbers to justify any extensive hunting. The protection at present provided would appear to be essential for the continued existence of this species. The usual period of open season provided by the Game and Fisheries Act was in effect in Northern Ontario, while a restricted period of open season, extending from October 15th to 30th 1942, was established by Regulation effective in those portions of the Districts of Nipissing, Sudbury and Temiskaming defined in clause (i) of subsection (b) of Section 7, and in the District of Rainy River and those portions of the Districts of Kenora and Thunder Bay defined in clause (ii) of subsection (b) of Section 7 of the Game and Fisheries Act.

**CARIBOU:**—This species exists only in very limited numbers and in but few isolated areas. The hunting of caribou is prohibited at all times, and this complete protection would appear to be quite necessary for the maintenance of this species even in its present limited proportions.

ELK:—Little improvement has been reported from the various sections in which these animals are to be found. The original stock was brought into the Province several years ago from Western Canada, and limited numbers were liberated on subsequent occasions in suitable portions of the Counties of Bruce and Peterborough, and in the Districts of Nipissing, Sudbury, Algoma and Thunder Bay. Some specimens are also located on Beausoleil Island in Georgian Bay off the county of Simcoe. The original importations were placed on the Petawawa Crown Game Preserver in the County of Pembroke, where numerous specimens still exist.

**BUFFALO:**—These animals are to be found only on lands in the Burwash Crown Game Preserve in the District of Sudbury, where they were placed after being brought from Alberta in 1939. Little increase has been reported.

**BEAR:**—Bear continue to be quite plentiful throughout the northern portion of the Province and increased numbers were reported from many areas. The hunting of this species provides some measure of sport and recreation and as has been stated previously in this report, the Department disposed of two hundred and thirty-two non-resident licenses for the taking of bear during the 1942 spring season, i.e., from April 1st to June 15th.

During the year a regulation was provided to authorize the payment of a bounty of \$10.00 on each bear killed in defence or preservation of live-stock or property. This regulation applied only to bears over the age of twelve months which had been killed in any township in which not less than twenty-five per cent of the total area is devoted to agriculture and which are located in Northern Ontario, the Districts of Parry Sound, Muskoka and Haliburton and in the Counties of Bruce, Frontenac, Hastings- Lennox and Addington, Peterborough, Renfrew and Victoria, and was payable only in respect to bear killed by a resident of the Township in which such bear was actually killed.

RABBITS:—Reports received in the Department would indicate that the various species of rabbit which inhabit the different sections of the Province were quite plentiful, and speaking generally, there would appear to have been some increase in their numbers in many districts. Cotton-tail rabbits prevail throughout the western and central portions of southern Ontario, the European hare, or jack rabbit, throughout the southwestern counties generally, while snow-shoe rabbits, or varying hare, are to be found in the northern and eastern portions of Southern Ontario and throughout that portion of the Province lying north and west of the Mattawa and French Rivers and Lake Nipissing. In some portions of the south-central and

eastern counties some decrease was reported due to the prevalence of fox. The hunting of rabbits continued to provide excellent sport during the late fall and early winter months for a multitude of interested sportsmen.

PARTRIDGE:—During the period under review there was some decline throughout the Province in the numbers of partridge, though the various species of this fine game bird continued to be sufficiently plentiful to warrant the provision of a short open season, with a restricted take. The general open season, which was effective, covered two periods viz: October 3rd to 17th and November 2nd to 14th, with a limit of five birds per day and not more than twenty-five in all over the two periods. In the Townships established as Regulated Game Preserve Areas the dates on which partridge could be taken coincided with those provided for the taking of pheasants therein, with a limit of five birds per day. The shooting of partridge was also permitted in the County of Lambton on October 31st, and in the counties of Essex and Kent, on October 29th, 30th and 31st, with a bag limit in each case of five birds per day.

HUNGARIAN PARTRIDGE:—There are but few sections of Ontario which these birds are reported to inhabit, and those areas are restricted in extent, being chiefly in the extreme southwestern counties and in two or three of the eastern counties. Such as are to be found here have resulted from re-stocking undertaken by the Department in previous years. Shooting of this species was restricted to the Counties of Essex and Kent, on October 29th, 30th and 31st, with a bag limit of two birds per day.

PHEASANTS:—In 1942 the Department was responsible for the distribution of 22,399 pheasants, comprised of 20,986 poults, 1171 adult hens and 242 adult cock birds. The actual purchase price was \$17,400.60. These birds were liberated under the supervision of Departmental field officers, principally in the various Townships established as Regulated Game Preserve Areas, and which distribution totalled 20,070 birds. Of the remainder 2,200 were liberated in suitable areas in a few additional Southern Ontario counties, while various branches of the Ontario Bird Dog Association were allocated 129 birds for use in connection with their spring and fall bird dog trials. Details of this distribution are set forth herewith, and in all cases except as indicated the birds so liberated were poults:—

Regulated Game Preserve Areas:- County of Brant, (three townships- Burford, South Dumfries and Onondaga), 710 birds; County of Elgin, (five townships Aldborough, Bayham, Dorchester South, Dunwich and Malahide), 1.000 birds; County of Haldimand, (ten townships—Canboro, Dunn, Moulton, Cayuga North, Cayuga South, Oneida, Rainham, Seneca, Sherbrooke and Walpole), 1830 birds of which 10 were adults; County of Halton, (four townships,—Esquesing, Nassagaweya, Nelson and Trafalgar), 1554 birds of which 204 were adults; County of Lambton, (one township—Plympton), 195 birds; County of Lincoln, eight townships—Caistor, Clinton, Gainsboro, Grimsby North, Grimsby South, Grantham, Louth and Niagara), 1665 birds; County of Middlesex, (two townships—Westminster (part) and Metcalfe), 500 birds; County of Norfolk, (four townships-Middleton, Townsend, Windham and Walsingham), 1020 birds; County of Ontario, (three townships-Pickering, Whitby East and Whitby West), 1315 birds of which 205 were adults; County of Oxford, (two townships—Dereham and Oxford East), 546 birds; County of Peel, (five townships—Albion, Caledon, Chinguacousy, Toronto (part) and Toronto (Gore), 1714 birds, of which 229 were adults; County of Prince Edward, (one township-Marysburgh South), 120 birds; County of Welland, (eight townships—Bertie, Crowland, Humberstone, Pelham, Stamford, Thorold, Wainfleet and Willoughby), 1935 birds; County of Wellington (one township—Puslinch) 300 birds; County of Wentworth (eight townships—Ancaster, Barton, Beverley, Binbrook, Glanford, Flamboro East, Flamboro West and Saltfleet), 2100 birds of which 300 were adults; and the County of York, (seven townships-Gwillimbury East, Gwillimbury North, King, Markham, Scarborough Vaughan and Whitchurch) 3361 birds of which 441 were adults.

General:—County of Essex, 1000 birds; County of Kent, 700 birds, County of Lambton (excluding Plympton Township), 405 birds; County of Leeds, 30 birds; County of Peterborough, 45 birds; and the County of Wellington, 20 birds.

Miscellaneous:—Ontario Bird Dog Association—129 birds, 24 of which were adults, for Niagara, St Catharines, Toronto and London trials.

The favourable conditions which resulted from a satisfactory natural hatch and the intensive re-stocking previously outlined encouraged the provision of special regulations for the shooting of pheasants in certain areas, as detailed herewith:

- (a) On Pelee Island the dates provided were October 28th, 29th, and 30th, 1942, with a limit of four birds per day, one of which was to be a hen. Hunters participating, in addition to having the regular hunting license as provided by the Game and Fisheries Act, were also required to be in possession of the special hunting license which the municipality of Pelee Island was authorized to issue for such hunting.
- (b) In the Township Regulated Game Preserve Areas, other than the Townships of East Oxford and Plympton, pheasant shooting was permitted on October 23rd and 24th, with an additional day, October 28th, being made available for such shooting provided this last mentioned date was approved by the Controlling Organization in each respective Township area. The date provided in the Township of East Oxford was October 24th, and in the Township of Plympton, October 31st. Special hunting licenses were also required of sportsmen participating in this shoot in these Township Regulated Game Preserve Areas. Pag limits were three cock birds per day.
- (c) In the Counties of Essex and Kent such shooting was permitted on October 29th, 30th and 31st, and in the County of Lambton on October 31st. In these counties the bag limit was three cock birds per day.
- **QUAIL:**—These birds are not at all plentiful, and in a great proportion of the Province are practically non-existent. Their prevalence is restricted to the more southerly counties, and the conditions pertaining thereto have been such that it has been impossible to permit hunting of this species in any areas except the counties of Essex and Kent. The Regulation which was provided in 1942 permitted such shooting only in the aforementioned counties for three days, October 29th, 30th and 31st, with a bag limit of four birds per day.
- DUCKS:—Conditions applicable to ducks continued to be quite satisfactory. In most areas they are reported to be fairly plentiful with some improvement noticed in various sections. The several varieties which cross Ontario in their southerly fall migration provided excellent apportunities for recreation for the goodly number of hunters to whom this branch of the sport of hunting has an especial appeal. The regulations which are in effect for their protection are provided under the Migratory Birds Convention Act by the Federal Government with the co-operation of the various Provinces of the Dominion, and conditions were sufficiently satisfactory to warrant an extension of fifteen days in the period during which they could be legally taken in the year 1942.
- GEESE:—The areas in which favourable wild goose shooting is available in this Province are extremely few and scattered. The best sections possibly are those along the western shore of James Bay and in the extreme southwestern counties. Hunting of this species is regulated by provisions of the Migratory Birds Convention Act, and as in the case of wild ducks the period of open season was extended in 1942 for fifteen days, except in the Counties of Essex,

Kent and Elgin, where the extension was limited to two days, thereby permitting such shooting over New Year's Day (1943).

WOODCOCK:—These birds as a general rule are quite scarce throughout. There are but few sections in which they can be hunted with any degree of success, which areas may be stated as located in some of the counties along the shore of Lake Erie and one or two adjoining counties to the north thereof, as well as in a few of the eastern counties. The period of open season established by the Migratory Birds Convention Act which governs, viz:—October 1st to 31st, applied throughout the Province.

**SNIPE:**—It may be stated that this species as a general rule is not too plentiful, though there are some scattered localities in which successful hunting prevails, principally in the more southerly counties of the Province. The regulations for their protection and shooting thereof are provided by the Migratory Birds Convention Act, and in 1942 the bag limits were reduced from twenty-five per day to twenty per day and not more than two hundred for the season, which extended over a period of two months, from September 15th to November 15th in the northern division and from October 1st to November 30th in the southern division.

**PLOVER:**—Reports would indicate that plover are not at all plentiful in any section of the Province, and while some improvement was observed in a few sections, conditions generally were such that the protection of an entire closed season again prevailed throughout 1942 with respect to this species. As in the case of wild ducks, wild geese, woodcock and snipe the regulations which apply are provided under the Migratory Birds Convention Act.

#### FUR-BEARING ANIMALS

The following information with reference to the various species of fur-bearing animals which inhabit Ontario has been assembled from reports submitted by members of the Departmental Field Service Force:—

BEAVER:—In the southwestern and southeastern counties these animals are not at all plentiful due to the lack of favourable habitation. In the remaining sections, and more particularly to the north, there is every indication that beaver are fairly plentiful, with some improvement in their numbers being reported from numerous areas. This condition may be attributed in some measure to the protection they have received in past years when a complete closed season prevailed and in more recent years when only a limited period of open season has been provided in suitable areas during the first part of December. was adopted which provided an open season from December 1st to 21st, 1942, for the taking of beaver in that portion of Ontario lying north and west of the French and Mattawa Rivers and Lake Nipissing (excepting therefrom the District of Rainy River and portions of the Districts of Kenora and Thunder Bay lying south of the main transcontinental line of the C.N.R. and west of the line of the C.N.R. running south-easterly from Superior Junction to Fort William), in the Districts of Manitoulin, Parry Sound, Muskoka and that portion of the District of Nipissing lying south of the Mattawa River, and in the Counties of Victoria, Haliburton, Peterborough, Hastings, Lennox and Addington, Frontenac and Renfrew. persons who trapped beaver during this open season were required to have proper trapping licenses and each trapper was authorized to take not more than ten beaver. and in view of complaints regarding damage to property by beaver, an open season extending from November 1st to 30th, 1942, was provided in the county of Grey. Only residents of this county were permitted to trap during this open season, and each trapper was permitted to take not more than ten beaver. In this case the pelts were disposed of by the Department and the proceeds were remitted to the trappers concerned. Departmental returns show that

24,194 pelts were taken during these periods of open season, and it has been estimated that their value to the trappers was practically \$779,000.00 The average value of these pelts was almost fifty per cent in excess of that received for such pelts during the season of 1941.

FISHER:—These animals are practically non-existent in Southern Ontario, and they are extremely scarce in the northern portion of the Province. But few specimens are taken during the regular trapping season and there has been a steady annual decline in the catch.

FOX:—This species continued to be very plentiful throughout almost the entire area of the Province. This prevalence was responsible for a condition which was detrimental to the welfare of domestic poultry stocks as well as that of native game birds, with the result that enforcement officers were authorized by the Department to permit the hunting and trapping of foxes in southern Ontario for an additional fifteen days, or until March 15th, 1943, as a means of further reducing the numbers of these predators. Organized fox drives were carried on thoughout the open season in many of the southern counties, while some Municipal Councils continued to pay bounty on foxes which were killed within the limits of such municipalities. There was a slight reduction in the number of red fox pelts which were taken during the year but increases were reported with respect to the number of cross fox silver fox and white fox pelts which were taken in the prevailing open season, though the three last mentioned varieties of this species are not at all plentiful anywhere in this Province.

**LYNX:**—This is another one of the species which are very scarce. As in the case of Fisher they are practically non-existent in Southern Ontario, and trappers are successful in taking but few specimens in the north. There is little variation in the numbers which are trapped from year to year.

MARTEN:—Continues to be extremely scarce. This is another species which has practically ceased to exist in the south portion of the Province. There has been a steady decline in the annual catch, no indications of any general improvement have been reported, nor does it appear that such improvement can be anticipated.

MINK:—Favourable conditions continued to exist quite generally throughout the entire Province, and trappers again were rewarded with a measure of satisfactory results from their operations for the taking of mink. This is one of the species contributing in an important way to the revenue derived by licensed trappers from the sale of pelts of fur-bearing animals taken by them, and the return from the sale of mink pelts taken during the 1942-43 season was exceeded only by such returns from the sale of muskrat and beaver. While it would appear from reports that the number of mink was about normal in the south, some increase in their number is reported from most sections of the north.

MUSKRAT:—While there was a decrease in the catch of muskrat taken during the period of the open season which preyailed in 1942-43 as compared with that of the previous season, it may be stated that insofar as this species is concerned fairly satisfactory conditions again prevailed. Due to varying conditions which exist in different sections of the Province, the limited period of open season which was provided by Regulation was established in these different sections to coincide with prevailing weather conditions which would be favourable to trapping operations. Muskrat pelts were again the principal source of revenue derived by licensed trappers.

It has been estimated that in 1942-43 more than \$1,446,000.00 was received by trappers from the sale of their muskrat pelts. This amount is slightly in excess of that derived from the same source in the previous year, notwithstanding the fact that the total number of pelts taken was 80,000 less. The sum referred to represents forty per cent of the total proceeds derived by trappers from the sale of all pelts taken in their trapping operations.

**OTTER:**—This species is not at all plentiful anywhere in Ontario, and there would appear to be little, if any, change. There was a decrease in the number which were taken by licensed trappers during the open season which prevailed.

**RACCOON**:—These animals are to be found only in Southern Ontario. They are not at all plentiful, and there are but few sections in which even slight improvement has been in evidence. The number which is reported to have been taken during the open season which prevailed in the period under review would represent the average catch of more recent seasons.

**SKUNK:**—While these animals continue to be quite plentiful throughout the entire Province, there was a considerable decrease in the number taken and disposed of by trappers. The number reported taken is only slightly more than fifty per cent of the eatch reported in the previous year. It is altogether probable that trappers generally are not greatly interested in this particular species.

**WEASEL:-** This species is reported to be fairly plentiful throughout Ontario. The number taken during the season shows a considerable decrease when compared with the previous season's total, and it is possible that the demand for weasel was not sufficient to encourage intensive trapping operations.

The following comparative table shows the numbers of pelts of the several varieties of tur-bearing animals taken by licensed trappers, and which were either exported or dressed, in each fiscal year since 1939-40:—

	1939-40	1940-41	1941-42	1942-43
Bear	295	274	384	288
Beaver	33,530	21,605	25,197	24.194
Fisher	1,382	858	884	691
Fox (Cross)	981	722	1,780	2,649
Fox (Red)	19,925	15,059	32,215	31,297
Fox (Silver or Black)	101	67	206	265
Fox (White)	36	91	114	185
Lynx	514	383	537	552
Marten	1,790	1,439	1,652	1,417
Mink	36,518	38,976	63,996	60,331
Muskrat	689,706	739,224	722,387	642,810
Otter	4,101	3,931	3,880	3,557
Raccoon	14,493	11,973	13,499	13,420
Skunk	74 176	72,005	94,656	48.337
Weasel	95,832	53,719	80,776	62,553
Wolverine	2	2	3	6

From information supplied to the Department by licensed fur-dealers it has been estimated that the value to the trappers of the pelts taken during 1942-43 was \$3,545,937.52. The principal species contributing to this total in the order of their importance were muskrat, beaver, mink and the several varieties of fox, the returns from these pelts being ninety per cent of the entire total value.

Pelts taken from animals raised on licensed fur farms, viz:— silver or black fox, cross fox, blue fox and mink, and disposed of during the year by the operators of such fur farms, were estimated to have realized the sum of \$1,489,501.45, an increase of more than \$450.000.00 as compared with the results of operations in the preceding year, and thus making the value of the total fur production of the province for the year 1942-43 the sum of \$5,035,438.97, as compared to a total of \$4,207,144.53 for the year 1941-42.

#### FUR-FARMING

A declining market for raw furs during the pelting season in the fall of 1941, an increasing cost of feed and a scarcity of necessary help caused some further recession in the fur farming industry in the year under review. During this period there were some 1,475 fur farmer's licenses issued, a net decrease of nine per cent. In spite of the unfavourable prospects mentioned 154 of these licenses were for newly established fur farms.

As is indicated in the following table, mink and foxes are and have continued to be the principal species propagated. Experiments in connection with the raising of fisher, marten, muskrats and beaver were negligible and devoid of definite results. Mink were raised on 981 farms, and while silver foxes are still the principal other species, there is considerable interest being displayed in the new type foxes, i.e. white marked foxes which were raised on 122 fur farms, and platinum foxes which were raised on 62 fur farms.

## BREEDING STOCK ON LICENSED FUR FARMS as at January 1st.

as at various 15	u.			
	1940	1941	1942	1943
Beaver	4	13	18	21
Fisher	27	26	16	15
Cross Fox	168	134	112	68
Red Fox	96	65	73	96
Silver Black Fox	18,327	16,034	15,630	12,901
Blue Fox	209	397	644	595
*Platinum Fox				125
*White Marked Fox				1,379
Lynx	2	2	2	2
Marten	19	16	19	15
Mink	31,989	34,277	38,650	29,345
Muskiat	235	179	119	52
Otter	$^2$	2	0	0
Raccoon	243	139	124	121
Skunk	10	7	5	2

<sup>\*</sup>New type foxes previously included with silver black foxes.

Transactions undertaken by fur farmers during the year 1942-43 as recorded with the Department, show disposition of pelts from stock raised on such licensed premises, as follows:

\$5,493 Mink, 79,244 of which were exported, and the remaining 6,249 dressed within the Province.

27,503 Silver Black Foxes, 18,254 of which were exported and the remaining 9,309 dressed within the Province.

1.333 Blue Foxes, 1.296 of which were exported, and the remaining 37 dressed within the Province.

166 Cross Foxes, 122 of which were exported, and the remaining 44 dressed within the  $v_{\rm rovince}$ .

#### CROWN GAME PRESERVES

During the period under review the only addition which was made to the system of Crown Game Preserves prevailing throughout the Province was the establishment of an area in the District of Patricia as a beaver sanctuary. This area is designated as the Albany River

Beaver and Fur Preserve. The boundaries may be generally described as follows:—on the north the Albany River on the west the Chipie River, on the south the Kwataboahegan River, and on the east the westerly shore of James Bay. The regulation which governs was provided at the request of the Department of Mines and Resources for the Dominion of Canada to permit of the restocking of the area with beaver, and to control the annual take of beaver therein, if and when such trapping is authorized, and to provide a restricted and controlled trapping ground for the benefit of resident Indians. This is the third such sanctuary so established.

The system of Regulated Game Preserve Areas which has been in effect during recent years was extended to include the Township of East Oxford in the County of Oxford.

#### WOLF BOUNTIES.

...The following is a comparative statement showing annual wolf bounty statistics and payments for a period of four years ending with the 1942-43 fiscal period:—

					Bounty and
Period	Timber	Brush	Pups	Total	Expenses
For the year ending March 31, 1940	1,107	614	22	1,743	\$25,058.12
For the year ending March 31, 1941	738	400	8	1,146	16,477.43
For the year ending March 31, 1942	1,199	577	37	1,813	40,593.77
For the year ending March 31 1943	935	497	32	1,464	33.606.62

Various factors have influenced the prevalence of wolves and the number taken, including the basic rate of bounty, enlistments in the armed forces and employment in war industries, and the abundance of game, but weather conditions would appear to be the most important. The winter of 1942-43 was exceptionally severe and during this period only 714 wolves were taken. Generally speaking fifty per cent of the wolves are snared and the special wire required for this purpose is not available at present.

#### SUMMARY OF WOLF BOUNTY CLAIMS

County	Tim <b>b</b> er	Brush	Pups	Total
Brant	0	1	1	$^2$
Bruce	8	18	0	26
Frontenac	8	9	5	22
Haldimand	0	1	0	1
Halton	0	2	0	2
Hastings	9	1	0	10
Lambton	0	1	0	1
Lanark	1	Q	0	1
Leeds	0	1	0	1
Lennox & Addington	10	13	0	23
Lincoln	0	1	0	1
Norfolk	0	9	0	9
Northumberland	0	1	0	1
Ontario	1	3	0	4
Perth	U	1	0	1
Peterboro	11	0	0	11
Prince Edward	0	1	0	1
Renfrew	26	5	0	31

Simcoe	3	8	5	16
Victoria	1	8	0	9
Welland	0	<b>2</b>	0	2
York	0	<b>2</b>	0	2
		_		
Total in Counties	78	88	11	177
	_			_
District	Timber	Brush	Pups	Total
Algoma	68	72	6	146
Cochrane	19	1	0	20
Haliburton	20	0	0	20
Kenora	271	70	$^2$	343
Manitoulin	20	45	8	73
Muskoka	26	4	0	30
Nipissing	65	13	0	78
Parry Sound	58	5	0	63
Patricia	67	7	0	74
Rainy River	82	59	0	141
Sudbury	76	92	0	168
Temiskaming	4	1	0	5
Thunder Bay	85	47	5.	137
Total in Districts	861	416	21	1,298
Grand Total	939	504	32	1,475

There were 1,120 claims submitted in respect to 1,475 wolves. These, together with four claims in respect to 4 wolves outstanding as at April 1st, 1942, were considered. Fourteen claims with respect to 15 wolves were rejected for the following reasons:—8 of the pelts were domestic dogs, 1 was a red fox, on 4 pelts insufficient evidence was produced, and 2 of the wolves from which pelts were submitted were not killed by the applicants making the claims.

Information assembled from the applications for bounty which were forwarded to the Department shows that 449 of these wolves were destroyed by farmers, 715 by Indians and trappers, 203 by hunters, rangers, guides and tourist outfitters, and the remainder by miscellaneous persons.

Previous to November 1st, 1942, these wolf pelts were returned to the respective persons who had taken the same, but the regulation which provided for such disposition was repealed on the date mentioned, since when such pelts have been delivered or made available to the Seamen's Fur Vests War Project for manufacture into garments for sailors, both in the Naval Service and Mercantile Marine. The number of wolf pelts of which—such disposition was made during the period between November 1st, 1942, and March 31st, 1943, was 1,005.

Reporting in connection with this endeavor by the Seamen's Fur Vests War Project, Mr. Alexander D. Schatz, Chairman of the Ontario Division, stated in a letter to this Department:—

"We take pride in pointing out that this voluntary War Effort on the part of the Fur Industry of Ontario had the fullest support and co-operation of employers and workers, as well as the generous assistance of Institutions, Organizations and numerous individuals." Of interest in this connection is the following letter addressed to the Seamen's Fur Vests War Project by the Commanding Officer of one of the vessels in the Canadian Naval Service:—

"Not so long ago 25 Fur-lined Jackets came aboard this ship. Their arrival was watched with interest by members of the crew, most of whom had been out on the North Atlantic before, and knew just how cold it can get out there, and what protection your jackets afford. In due course they were distributed, and once again the eager eyes were evident.

If you could come aboard some night when we are at sea and watch how your Jackets are passed about by members of the crew going on and coming off watch, this letter of thanks would not be necessary. Each member of the crew stands 8 hours on watch duty per day, but your Jackets are on 24 hours duty.

On behalf of the ship's company, I wish to take this opportunity to thank your organization for this splendid and much appreciated gift."

#### GENERAL

#### TOURIST OUTFITTERS:-

Further rationing of gasoline and additional travel restrictions or other difficulties attributable to present war-time conditions again had an adverse effect on the tourist traffic to and within the Province. Many of the tourist outfitters' camps' were affected by these conditions, particularly those catering to the transient tourist and those which are accessible only to road traffic. It may be stated that such unfavourable conditions were responsible for the reduction in the number of tourist outfitters' camp licenses which were issued to cover operations during the year under review, viz:—615, which number was 50 less than the number of such licenses issued for the previous year. Of these licenses 565 were issued in favour of resident operators and the remaining 50 in favour of non-resident operators.

These camps are located in districts set forth in the following tabulation:-

Algoma	87
Cochrane	7
Kenora	144
Manitoulin	50
Nipissing	86
Parry Sound	100
Patricia	2
Rainy River	42
Renfrew	14
Sudbury	54
Temiskaming	7
Thunder Bay	22
Total	615

#### BEAR BOUNTY:-

The Order-in-Council which governed the payment of bounty on bears was dated the 19th of August, 1942, and was applicable to bears killed during the period between August 1st and November 30th, 1942. This bounty was paid on a total of 364 bears which were destroyed

in accordance with the provisions of this Order-in-Council. Applications for the payment of bounty on an additional 22 bears were refused for various reasons, the principal reason being that the bears had been destroyed in Townships which were not in the proper classification regarding agricultural development, and this condition applied in respect to 14 bears. Rejection of claims was also made for the following reasons:—

- 2 killed before August 1st, 1942.
- 4 killed by persons not residents of the Township in which the bears were killed.
- 1 killed in a Crown Game Preserve.
- 1 killed by a person other than the applicant.

Grateful acknowledgement is made of the valuable co-operation of Agricultural Representatives and other officials of the Department of Agriculture who provided the necessary information to enable our Department to determine which Townships were within the classification stated in the Regulation, i.e., those in which not less than twenty-five per cent of the total area was devoted to agriculture.

The following statistical table indicates the total number of bears killed in each of the Districts and Counties, and in respect of which applications for the payment of bounty were submitted:—

County or District	Total
Algoma	- 10
Cochrane	20
Kenora	G
Manitoulin	7
Muskoka	12
Nipissing	37
Parry Sound	32
Rainy River	10
Sudbury	43
Thunder Bay	79
Temiskaming	24
Haliburton	12
Bruce	7
Frontenac	8
Hastings	23
Lennox & Addington	6
Peterborough	3
Renfrew	44
Victoria	3
	386

#### GAME AND FISHERIES ACT:-

Amendments to the Game and Fisheries Act which were adopted by the Legislative Assembly provided:—

(a) For the exportation by non-resident anglers of the lawful catch of one day's fishing or the lawful catch of two days' fishing in the case of commercial fish taken from Great Lakes. (b) That the provision of Section 65 (Trespass) would not apply in the case of persons travelling on water with fishing tackle so encased or dismantled as to prevent its use while in transit.

Regulations additional to those already referred to in other portions of this report were adopted, and provided:—

- (a) An open season for black and grey squirrels in Southern Ontario, on November 5th, 6th, and 7th, 1942, with a bag limit of five per day.
- (b) That it would be unlawful for any person to take minnows in excess of a total weight of forty pounds from the waters of Lake Simcoe and Lake Couchiching, during the period from October 1st, 1942, to March 31st, 1943.
- (c) That it would be unlawful to hunt deer or moose in the open season in the territory lying within one and one-half miles on either side of Highway No. 70, between Kenora and Fort Frances.
- (d) That certain Townships in the District of Algoma, as enumerated, be transferred from Division "C" to Division "B" for the purpose of the open season for deer and moose.

#### ENFORCEMENT

Enforcement of provisions of the Game and Fisheries Act and other legislation which has been provided for the protection of game and fish in Ontario, such as the Migratory Birds Convention Act and the Dominion Special Fishery Regulations, is assigned to the regular staff of Game and Fisheries Overseers, and the services performed by the members of this branch of Departmental services play an important part in maintaining and improving our efforts towards the conservation and preservation of the game and fish resources of this Province. These services are augmented by the co-operation provided thoughout the year by members of the Ontario Provincial Police Force, and by the services of seasonal overseers who are engaged periodically, but more particularly for the purpose of providing additional patrol services through the critical fish spawning periods in the spring of the year. Considerable assistance is also received from the many hundreds of interested persons who voluntarily act as Deputy Game and Fishery Wardens, without remuneration, under the authority of their Quite a proportion of these Deputy Game Wardens are appointed on annual appointments. the recommendation of the Municipal Councils of the Townships which have been established as Regulated Game Preserve Areas and for the most part these appointees are active only in the Townships in which they reside.

The duties of the officers to whom is entrusted this work of enforcement are greatly assisted by reason of the active co-operation received by them from the majority of sportsmen who in more recent years have become convinced of the necessity for proper observance of the various provisions of the Game and Fisheries Act which are essential for the adequate protection and conservation of this division of our natural resources. Such a satisfactory condition is to a very great extent attributable to the educational programmes undertaken by the Fish and Game Protective Associations, and other organizations having similar objectives, and which associations and organizations now exist in practically every section of Ontario.

Nevertheless it is still true that there are occasions on which it is necessary for our enforcement officers to make seizures and undertake subsequent prosecutions for offences involving violations of provisions of this protective legislation.

During the period covered by this report the seizure of articles from offenders was reported in a total of 1448 cases. Such seizures were made by Game and Fisheries Overseers

in 1272 cases, by Deputy Game and Fishery Wardens in 45 cases, by Provincial Police Constables in 25 cases and by members of various Municipal police forces in 20 cases. Cooperative action by Overseers, Deputy Game Wardens and Provincial Police resulted in seizures in 63 cases, and in the remaining 23 cases by co-operative action on the part of Overseers and members of Municipal Police Forces

The following is a summary of the articles which were confiscated in these seizure cases:

Live animals and birds	in	3	cases
Birds, game animals and meat	ìn	225	cases
Fire-arms and ammunition	in	668	cases
Fish	in	174	cases
Nets and fishing equipment	in	137	cases
Angling equipment		113	cases
Pelts and hides	in	261	cases
Traps and trapping equipment		86	cases
Motor boats, rowboats, canoes		19	cases
Outboard motors	in	5	cases
Motor vehicles			
Flashlights and lanterns			
Spears			
Miscellaneous articles	in	57	cases

The apparent discrepancy as between the actual number of cases in which seizures were reported and the total of the above summary would be accounted for by reason of the fact that in many of the instances a combination of articles was seized, such as fire-arms and game, nets and boats, fishing tackle and fish, pelts and traps, spears and artificial lights, and so forth.

Details of the fire-arms which were confiscated are as follows:—single-barrel shotguns 87, double-barrel shotguns 82, automatic shotguns 4, repeating shotguns 44, 410 gauge shotguns 12, combination shotgun and rifle 3, 22 calibre rifles (various types) 337 heavy calibre rifles 85, 25-20 calibre rifles 13, revolvers 6, and air guns 25.

Confiscated pelts of fur-bearing animals were as follows:—291 beaver, 3 fisher, 34 fox, (Silver Black, cross and red), 1 lynx, 160 mink, 800 muskrat, 13 otter, 35 raccoon, 15 skunk, 79 squarrel, 90 weasel as well as 66 deer and moose hides.

The miscellaneous articles which were seized included two axes, two bicycles, 316 duck decoys, eight ferrets, seven grappling poles, two hounds, fifteen packsacks and haversacks and two trunks or suiteases.

With reference to prosecutions, charges were laid in 1210 cases. This action resulted in convictions and the imposition of penalties in 1,146 of these cases. The charges laid were dismissed by the presiding magistrates in 54 of the remaining cases, while in the balance of 10 cases the charges were withdrawn. In the cases in which convictions were registered, the informations were laid by Game and Fisheries Overseers in 1,085 instances, by Provincial Police in 22 instances, by joint action by Overseers and Provincial Police in 8 instances, by Municipal Police in 24 instances, and by private land-owners (trespass) in 7 instances. In actions which were dismissed the informations were laid by Game and Fisheries Overseers in 46 instances, by Provincial Police in 1 instance, and joint action in 7 instances. Charges were withdrawn in 9 instances by Game and Fisheries Officers and in 1 instance by the Provincial Police.

#### REPORT OF THE FISH CULTURE BRANCH

Fish cultural operations were carried on during the year in twenty-seven provincial government hatcheries and rearing stations. Due to wartime conditions there was no expansion of the hatchery system to include new plants, and only proper maintenance and essential repair work were undertaken.

#### THE CULTURE AND DISTRIBUTION OF FISH

A detailed account of distribution of hatchery reared fish by county or district, species, age-class, and number planted is given in appendices I and II. In the following paragraphs, comparison of the year's distribution with that of the previous year and other pertinent data are given. The total output of all species for the year was approximately 14% higher than in 1941-42.

#### Speckled Trout:

The distribution objective was 3,000,000 speckled trout yearlings, but the year's total was somewhat lower, namely 2,918,500. Due to congestion at the Dorion Trout Rearing Station it was necessary to plant a fairly large number of fingerlings, namely 380,000. For the same reason smaller numbers were planted from Hill Lake, Sault Ste. Marie, Chatsworth and Codrington. The private hatchery at Caledon had approximately 170,000 fingerlings which could not be accommodated; these were distributed as effectively as possible in suitable and publicly fished waters. On the whole, approximately 60% more fingerlings were planted as compared with the preceding year.

#### Brown Trout:

The production of brown trout yearlings was 3.8 per cent. greater than that of the preceding year.

#### Rainbow Trout:

Distribution of rainbow trout yearlings was 9.8 per cent. greater than in 1941-42.

#### Kamloops Trout:

This species was introduced to a number of carefully selected lakes in Ontario, and it promises to provide excellent game-fish possibilities, at least in some of the lakes chosen.

During the year 24,800 yearlings were planted as compared with 25,000 in 1941-42.

#### Lake Trout:

Due to inclement weather which occurred during the lake trout spawning season in the fall of 1942, the egg collection was somewhat reduced. As a result the distribution of fry and fingerlings for the year under discussion was correspondingly reduced. The total production of eyed eggs, fry and fingerlings was 18 per cent. less than that of the preceding year. However, over 10,680 yearling lake trout were planted, which should have a compensatory and equalizing effect.

#### Whitefish:

The number of whitefish planted was approximately 5 per cent. greater than that of the preceding year.

#### Herring:

The collection of herring eggs at Glenora and Kingsville hatcheries was more than twice that of the preceding year, an increase of 114 per cent.

#### Vellow Pickerel (Pike-perch):

A favourable increase of 32 per cent, over last year's distribution of eyed eggs and fry of yellow pickerel was realized.

#### Small-mouthed Black Bass:

One of the main annual objectives as regards bass culture is to increase the output of bass fingerlings by using all the facilities available as effectively as possible. In this we were successful to the extent of increasing by 4 per cent the previous year's output.

#### ${\it Large-mouthed~Black~Bass:}$

The culture of large-mouthed bass in two ponds at the Mount Pleasant hatchery was a success. Compared with the preceding year's production, the percentage increase of fry and fingerlings was 68 per cent. and 8 per cent. respectively.

#### Yellow Perch:

Annual collections of perch spawn from Lake Erie in the vicinity of the Kingsville hatchery vary greatly in abundance from year to year. Although 24,000,000 fry were planted this year this number was 24 per cent less than that of the preceding year.

#### Maskinonge:

Compared with the preceding year there was a decrease of approximately 25 per cent. in the distribution of fry, and 53 per cent. in the distribution of fingerlings.

Weather conditions have a pronounced effect on successful spawning and hatching of maskinonge. The spawning, hatching and feeding seasons in 1939 and 1940 were good, because the seasons were late, followed by mild and favourable weather. Changeable weather following an early opening is decidedly unfavourable.

The effect of weather conditions is most striking on the spawning grounds in the Pigeon River. The Pigeon River receives considerable warm surface water from the surrounding land, opens early and provides a maskinonge spawning season of comparatively short duration. A short spawning season, generally speaking, reduces the percentage hatch. On the Lakfield spawning grounds, conditions are quite different. Owing to the large body of ice which forms in Stony Lake each winter the spawning season for maskinonge is later, and the hatchability and general condition of the eggs are much better.

Reduction in the number of maskinonge fingerlings may also be attributed to weather conditions. Unsatisfactory weather conditions interfere with the spawning of suitable minnows, resulting in a poor yield and retarded growth of the minnows. When live minnow food, which is the most important item in the diet of maskinonge fingerlings is interfered with the normal growth and production of maskinonge suffer.

#### CLOSED WATERS

Establishing closed water areas is one of the practical methods employed in maintaining and improving the fishing in our lakes and streams. The closed area acts as a source of supply for replenishing the immediately adjacent open area with the natural increase provided year after year. If closure is continuous the area becomes a sanctuary of very great practical value.

The waters in the following list were closed during the year April 1, 1942, to March 31, 1943, to supplement those already closed:

#### ADAM LAKE

Unorganized territory north of Clay Lake between Fluke Lake and Segise Lake, District of Kenora. Closed for maskinonge propagation. Adam Lake is a feeder of Clay and Segise Lakes.

#### GEORGIAN BAY (Portion located as follows:)

- (a) An area approximately 1 mile square lying west of Electric Island;
- (b) An area approximately 1 mile square lying west of Lot 51, Concession VIII. Township of Harrison, District of Parry Sound;
- (c) An area lying east of and extending approximately 2 miles along the shore line opposite Concessions XIII and XIV, Township of Harrison, District of Parry Sound.

#### HARVEY CREEK (Nogie's Creek)

Townships of Galway and Harvey, County of Peterborough. Sanctuary for maskinonge.

#### LUKINTO LAKE

Unsurveyed territory, 12 miles east of Longlac, and 6 miles north of Seagram, District of Thunder Bay. Closed to provide additional protection for speckled trout.

#### MASKINONGE CREEK

Part of Maskinonge Lake, and part of Little Vermilion Lake, Townships of Pickerel and Vermilion, District of Kenora. Closed to provide additional protection for maskinonge with a view to maintaining and if possible increasing the supply of maskinonge by natural means.

#### TASSO, CAMP, BLUE AND CLEAR LAKES

Township of Finlayson, District of Nipissing. Closed to protect trout during winter months.

#### TWELVE MILE CREEK

Townships of Nelson and Trafalgar on certain specified lots and concessions, County of Halton. Closed to provide protection for small-mouthed black bass so that the closed area will help to replenish adjacent areas of the river from year to year.

#### WHITEFISH, CLEAR, PORTAGE AND BIG JOSEPH LAKES

Township of Humphrey, District of Parry Sound. Closed to winter fishing to protect lake trout.

#### REMOVAL OF COARSE FISH

Hoop nets were operated at the outlet of Charleston Lake for the purpose of removing ling. Owing to changeable weather conditions the spawning run was small ,although the spawning period was more prolonged. The total catch of ling was 1,100.

Similar work was undertaken on Otty Lake, Township of North Elmsley, County of Lanark. The total catch was 368 ling, weighing about 3 lbs. each, or a total weight of 1,104 lbs.

The purpose of operations on Loughborough Lake and West Rideau Lake was to remove quantities of whitefish and herring, and coarse fish. A trap net was set in Loughborough Lake but only catfish were taken. After sounding and determining the type of bottom, pound nets were set on what was considered the best whitefish grounds in West Rideau Lake. Trap nets were also set on suitable whitefish grounds and the fish taken were game fish and ling, the former being liberated and the latter turned over to fox farmers in the district. From November 15 to November 26, 1942, the following fish were taken from West Rideau Lake: 308 lbs. of whitefish, 514 pounds of catfish, and 12,228 lbs. or approximately 6 tons of ling.

All the operations were under the direct supervision of local overseers or the hatchery supervisor. Nets and other equipment were supplied by the Department and considerable assistance was given by local residents. The whitefish and catfish were sold at a very nominal price, and the ling were disposed of to local residents and fox farmers.

#### BIOLOGICAL SURVEYS

At frequent intervals from April 27 until June 26, a study of the spawning of small-mouthed black bass, Long Point Bay, Lake Erie, was undertaken. It was not until June 23 that the first small-mouthed fry were taken off the nests. The study indicated the danger of opening the season too early without substantial evidence of spawning conditions.

A study of two quarry ponds at Hagersville and a small pond at Guelph was made.

For the most part, technical studies were confined to the hatcheries and rearing stations in connection with the care and feeding of the fish reared therein.

The Ontario Fisheries Research Laboratory of the Department of Zoology, University of Toronto, continued field and laboratory studies in Algonquin Park, limiting the work to the more urgent and important needs of fish culture.

In co-operation with the Park Staff, 60,000 speckled trout yearlings, provided by the Ontario Department of Game and Fisheries, were distributed as recorded in appendix I under the District of Nipissing.

Another measure for the maintenance of good fishing is the alternate closure of lakes to fishing, which was initiated in 1938 and has been continued as shown by the following table:

	Number of	
Year	lakes closed .	
1938	4	
1939	5	
1940	24 (the 21 reported for 1940 and 1941 should read 24	4)
1941	17	
1942	20	

The creel census is proving to be the most successful means of determining the trends in the abundance of game fish and although it does not give a complete record of the number of fish taken it is a measure of both the total number taken and their availability or the number taken per hour by anglers. Where the creel census is carried on continuously for the same lakes and streams over a number of years it indicates the results of uncontrolled or unlimited angling, angling under controlled conditions as by alternate closure of lakes and other remedial measures, such as stocking and introduction of forage fish which are being applied as major experiments in fish culture. It is especially desirable to carry out the creel census as a war time activity, as it gives a measure of the influence of the war on the number of anglers, as well as information on the stocks of game fish which is a guide to post-war fish culture needs.

The following table gives a summary of the creel census records for lake trout and bass from those lakes in Algonquin Park for which information is available.

	LAKE	TROUT	Γ				
Year	1936	1937	1938	1939	1940	1941	1942
Number of lake trout recorded	1414	3855	3083	4681	1827	2452	1832
Number of lakes for which							
anglers have reported	23	51	41	59	24	47	44
SMALL-M	IOUTI	HED BL	ACK BA	SS			
Number of bass recorded		1202	1891	1694	1582	1640	1520
Number of lakes for which			2002	1001	1004	2010	10.20
anglers have reported		4	8	11	15	14	18
Number of bass recorded from Lake Opeongo		683	731	270	404	494	217

During 1942 the creel census recorded the valuable information that numbers of white-fish were taken by anglers from Lake Opeongo and brown trout from Brewer Lake. The value of the creel census is in direct proportion to the co-operation received from anglers to whom much credit is due for their active participation without which this important measurement of fish culture work could not be carried out.

It has been found that the whitefish, perch and suckers constitute the most important fake trout food, particularly in Lake Opeongo. The small perch and perch fry are most important from midsummer into the fall, and studies of the feeding and food supply of this important forage fish have been continued.

The speckled trout living in the streams feed upon the aquatic insects which are present in great numbers and which include such well known forms as blackflies, midges, mayflies, caddis flies and stoneflies. There is a marked variation in the numbers from year to year which is shown by the following table giving the total insect emergence from one square yard of the same stream each year over a period of years.

	Total number of insects emerging
Year	from one square yard of stream
1937	13,385
1938	15,077
1939	10,836
1940	13,504
1941	11,343
1942	

Under natural conditions beavers frequently build dams in trout streams and in stream improvement, dams and deflecting weirs are constructed to form deep pools of quiet water. Such dams or deflecting weirs create changes in streams which have a marked influence upon the insect fauna. The nature of this change is important insofar as it results in the production of different species and numbers of aquatic insects as compared to those present before such dams are built. It has been learned that the aquatic vegetation which often appears as the result of such dams definitely increases the number of insects, and further work is being carried out to determine whether the aquatic insects produced in this way are available to and constitute the food selected by the trout and to what extent the other conditions resulting from the dams are favourable or unfavourable to trout production.

Examination of the fish of the Park waters shows that some of them carry fish parasites and although none of these parasites are injurious to man they may be quite harmful to the fish. Much of the information from these studies is of value in the local fish culture work, as it has been learned that: the same species of fish in different lakes carry parasites of different kinds and degree of harmfulness which is a warning against indiscriminate transfer of fish from one lake to another. There is a relation between the fish parasites and the food, so that in a large lake fish in one area may be parasitized, while those in another area may be free of that particular parasite, which suggests a possible approach to parasite control. Lakes containing small-mouthed black bass had several species of fish infested with larval cysts of the cestode, *Proteocephalus ambloplitis*, while fish from lakes that do not contain small-mouthed black bass do not carry this cestode."

#### ACKNOWLEDGEMENTS

In closing this report I desire to express my appreciation of the excellent spirit of co-operation which has been displayed throughout the year by the Ontario Federation of Anglers and Hunters and its various constituent Game and Fish Protective Associations, and by the officials and members of the Northern Ontario Tourist Trade Association, as well as others who are interested in the services rendered by this department on behalf of hunters, anglers and trappers. Such contacts cannot but be of inestimable value and assistance to us in the performance of duties required in connection with the proper administration and conduct of the Department.

Regarding the work of the staff. May I state that members of the Departmental Service generally have been very conscientious in carrying out their duties and courteous in their contacts with the public in their efforts to produce the best results.

All of which is respectfully submitted.

I am, Sir,

Your obedient servant,

D. J. TAYLOR,
Deputy Minister of Game and Fisheries.

#### APPENDIX No. 1

# SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS APRIL 1, 1942, TO MARCH 31, 1943.

LARGE-MOUTHED BLACK	DASS	Frontenac	
FRY		Haldimand	
Bruce	70,000	Haliburton Halton	
Huron	'	Hastings	
Lambton		Huron	
Victoria		Lanark	
1000110		Leeds	
Total	185,000	Lennox-Addington	
		Manitoulin	
FINGERLINGS		Muskoka	21,000
Haliburton	1,000	Nipissing	
Lincoln		Northumberland	
Auskoka		Ontario	
Vipissing		Oxford	
imcoe		Parry Sound	
Victoria		Peterborough	
Wentworth		Renfrew	
Tork	2,000	Russell	1,500
Total	10.100	Simcoe	
Total	19,100	Sudbury	
YEARLINGS AND ADU	LTS ·	Thunder Bay Timiskaming	
rant		Victoria	
ork		Waterloo	
Aiscellaneous		Welland	
A I SOCI ALLO U.S		·	
Total	290	Total	<b>7</b> 18,25
	60,000	YEARLINGS AND ADU Brant Hastings Manitoulin	125 825 38'
FRY Bruce	60,000 5,000 60,000	Brant Hastings Manitoulin Parry Sound Peterborough	12: 82: 38' 35: 55:
FRY Bruce Dundas Elgin Frontenac	60,000 5,000 60,000 55,000	Brant Hastings Manitoulin Parry Sound	12 82 38 35 55
FRY Sruce Oundas Cligin Frontenac Grenville	60,000 5,000 60,000 55,000 8,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous	12 82 38 35 55 10
FRY bruce Oundas Elgin Prontenac Grenville Grey	60,000 5,000 60,000 55,000 8,000 40,000	Brant Hastings Manitoulin Parry Sound Peterborough	12 82 38 35 55 10
FRY Struce Dundas Elgin Frontenac Grenville Grey Fastings Furon	60,000 5,000 60,000 55,000 8,000 40,000 27,500 20,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total	12 82 38 35 55 10
FRY  oruce  Jundas  Ju	60,000 5,000 60,000 55,000 8,000 40,000 27,500 20,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE	12 82 38 35 55 10
FRY  cruce cundas cligin crontenac crenville crey fastings furon anark eeds	5,000 5,000 5,000 55,000 55,000 40,000 27,500 20,000 20,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY	12 82 38 35 55 10 2,35
FRY iruce undas digin rontenac irenville drey fastings turon anark eeds ennox-Addington	60,000 5,000 60,000 55,000 8,000 40,000 27,500 20,000 20,000 30,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Haldimand	12 82 38 35 55 10 2,35
FRY iruce Jundas Clgin Crontenac Jrenville Grey Justings Juron Janark Jeeds Jeenox-Addington Janitoulin	60,000 5,000 60,000 55,000 8,000 40,000 27,500 20,000 20,000 30,000 30,000 105,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Haldimand Hastings	12 82 38 35 55 10 2,35
FRY ruce lundas ligin rontenac lerenville ligin luron	60,000 5,000 60,000 55,000 8,000 40,000 27,500 20,000 30,000 30,000 105,000 60,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Haldimand Hastings Leeds	12 82 38 35 55 10 2,35
FRY  oruce  oundas  cligin  rontenac  drenville  drey  fastings  Luron  anark  eeds  ennox-Addington  fanitoulin  fiddlesex  fuskoka	60,000 5,000 60,000 55,000 8,000 40,000 27,500 20,000 20,000 30,000 30,000 105,000 120,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Haldimand Hastings Leeds Lennox-Addington	12 82 38 35 55 10 2,35
FRY  Struce Struce Struce Struct Stru	5,000 5,000 5,000 60,000 55,000 8,000 40,000 27,500 20,000 30,000 30,000 105,000 60,000 120,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Haldimand Hastings Leeds Lennox-Addington Manitoulin	12 82 38 35 55 10 2,35
FRY Bruce Oundas Eligin Prontenac Grenville Grey Hastings Huron Annark Aeeds Aennox-Addington Manitoulin Middlesex Muskoka Vipissing Parry Sound	60,000 5,000 60,000 55,000 8,000 40,000 27,500 20,000 30,000 105,000 100,000 100,000 500,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Haldimand Hastings Leeds Lennox-Addington Manitoulin Muskoka	12 82 38 35 55 10 2,35
FRY bruce Oundas Cligin Prontenac Grenville Grey Hastings Huron Annark Annark Annark Manitoulin Middlesex Muskoka Vipissing Parry Sound Peterborough	60,000 5,000 60,000 55,000 8,000 40,000 27,500 20,000 30,000 30,000 105,000 120,000 120,000 100,000 100,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Haldimand Hastings Leeds Lennox-Addington Manitoulin Muskoka Nipissing	12 82 38 35 55 10 2,35
FRY  Bruce Oundas Eligin Prontenac Grenville Grey Hastings Huron Janark Jeeds Jennox-Addington Manitoulin Middlesex Muskoka Nipissing Parry Sound Peterborough Prince Edward	60,000 5,000 60,000 8,000 40,000 27,500 20,000 30,000 30,000 105,000 60,000 120,000 100,000 1500,000 15,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Haldimand Hastings Leeds Lennox-Addington Manitoulin Muskoka Nipissing Northumberland	12 82 38 35 55 10 2,35
FRY  Bruce Oundas Eligin Prontenac Grenville Grey Hastings Huron Annark Aceds Annox-Addington Manitoulin Middlesex Muskoka Vipissing Perince Edward Muddury	5,000 5,000 60,000 55,000 8,000 40,000 27,500 20,000 30,000 30,000 105,000 100,000 100,000 15,000 15,000 25,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Haldimand Hastings Leeds Lennox-Addington Manitoulin Muskoka Nipissing Northumberland Ontario -	12 82 38 35 55 10 2,35 10,00 125,00 10,00 65,00 40,00 180,00 25,00
FRY  bruce  order  orde	60,000 5,000 60,000 55,000 8,000 40,000 27,500 20,000 30,000 105,000 60,000 120,000 120,000 100,000 100,000 15,000 15,000 15,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Haldimand Hastings Leeds Lennox-Addington Manitoulin Muskoka Nipissing Northumberland Ontario Parry Sound	12,82 38,35 55,55 10 2,35 10,00 125,00 20,00 10,00 65,00 40,00 25,00 30,00
FRY bruce Oundas Cligin Prontenac Grenville Grey Hastings Huron Jeanark Jeeds Jennox-Addington Manitoulin Middlesex Muskoka Nipissing Parry Sound Peterborough Prince Edward Judbury Jimiskaming Vaterloo	60,000 5,000 60,000 55,000 8,000 40,000 27,500 20,000 30,000 105,000 60,000 120,000 120,000 100,000 100,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY  Haldimand Hastings Leeds Lennox-Addington Manitoulin Muskoka Nipissing Northumberland Ontario Parry Sound Peterborough	12 82 38 35 55 10 2,35 10,00 125,00 15,00 20,00 10,00 40,00 180,00 25,00 30,00 705,00
FRY bruce Oundas Cligin Prontenac Grenville Grey Hastings Huron Jeanark Jeeds Jennox-Addington Manitoulin Middlesex Muskoka Nipissing Parry Sound Peterborough Prince Edward Judbury Jimiskaming Vaterloo	60,000 5,000 60,000 55,000 8,000 40,000 27,500 20,000 30,000 105,000 60,000 120,000 120,000 100,000 100,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Haldimand Hastings Leeds Lennox-Addington Manitoulin Muskoka Nipissing Northumberland Ontario Parry Sound Peterborough Prince Edward	12 82: 388 35: 55: 10 2,35: 10,000 125,000 20,000 10,000 40,000 180,000 25,000 30,000 705,000 40,000
FRY  struce Oundas Cligin Frontenac Grenville Grenville Grey Hastings Luron Janark Jan	60,000 5,000 60,000 8,000 40,000 27,500 20,000 30,000 105,000 100,000 100,000 100,000 15,000 15,000 15,000 100,000 15,000 100,000 15,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Haldimand Hastings Leeds Lennox-Addington Manitoulin Muskoka Nipissing Northumberland Ontario Parry Sound Peterborough Prince Edward Renfrew	12 82 38 35 55 10 2,35 10,00 125,00 15,00 20,00 10,00 65,00 40,00 180,00 705,00 40,00 40,00 40,00
FRY  bruce Oundas Cligin Prontenac Grenville Grey Hastings Huron Janark Jeeds Jennox-Addington Manitoulin Middlesex Muskoka Nipissing Parry Sound Peterborough Prince Edward Judbury Timiskaming Vaterloo Vellington  Total	60,000 5,000 60,000 8,000 40,000 27,500 20,000 30,000 105,000 100,000 100,000 100,000 15,000 15,000 15,000 100,000 15,000 100,000 15,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Haldimand Hastings Leeds Lennox-Addington Manitoulin Muskoka Nipissing Northumberland Ontario Parry Sound Peterborough Prince Edward	12 82 38 35 55 10 2,35 10,00 125,00 10,00 65,00 40,00 25,00 30,00 705,00 40,00 40,00 20,00
FRY  Struce Struce Struce Struct Stru	60,000 5,000 60,000 55,000 8,000 40,000 27,500 20,000 30,000 30,000 100,000 100,000 15,000 25,000 15,000 25,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY  Haldimand Hastings Leeds Lennox-Addington Manitoulin Muskoka Nipissing Northumberland Ontario Parry Sound Peterborough Prince Edward Renfrew Simcoe Stormont Sudbury	12 82 38 35 55 10 2,35 10,00 125,00 15,00 20,00 40,00 180,00 25,00 30,00 40,00 40,00 20,00 15,00 25,00 30,00 40,00 25,00 25,00 20,00 40,00 20,00 40,00 20,00 40,00 20,00 40,00 20,00 40,00 20,00 40,00 20,00 40,00
FRY  Struce Oundas Cligin Prontenac Grenville Grey Hastings Huron Janark	60,000 5,000 60,000 8,000 40,000 27,500 20,000 30,000 30,000 105,000 100,000 100,000 15,000 25,000 100,000 15,000 100,000 15,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY  Haldimand Hastings Leeds Lennox-Addington Manitoulin Muskoka Nipissing Northumberland Ontario Parry Sound Peterborough Prince Edward Renfrew Simcoe Stormont Sudbury	12 82: 388 35: 55: 10 2,35: 10,00( 125,00( 15,00( 20,00) 10,000 40,000 40,000 40,000 40,000 20,000 15,00( 20,000 15,000 15,00( 20,000 15,00( 20,000 15,00( 20,000 15,00( 20,000 15,00( 20,000 15,00( 20,000 15,00( 20,000 15,00( 20,000 15,00( 20,000 15,00( 20,000 15,00( 20,000 15,00( 20,000 15,00( 20,000 15,00( 20,000 15,00( 20,000 15,00( 20,000 15,00( 20,000 15,00( 20,000 15,000 1
FRY Bruce Oundas Eligin Prontenac Grenville Grey Hastings Huron Janark Jeeds Jennox-Addington Manitoulin Middlesex Muskoka Vipissing Parry Sound Peterborough Prince Edward Mubury Cimiskaming Vaterloo Vellington  Total  FINGERLINGS	60,000 5,000 60,000 8,000 40,000 27,500 20,000 30,000 105,000 50,000 100,000 100,000 15,000 15,000 100,000 15,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Haldimand Hastings Leeds Lennox-Addington Manitoulin Muskoka Nipissing Northumberland Ontario - Parry Sound Peterborough Prince Edward Renfrew Simcoe Stormont	12 82: 388 35: 55: 10 2,35: 10,00 125,00 10,00 65,00 40,00 180,00 25,00 40,00 40,00 40,00 20,00 15,000 20,00
FRY Bruce Oundas Eligin Prontenac Grenville Grey Hastings Huron Janark Jeeds Jennox-Addington Manitoulin Middlesex Muskoka Nipissing Parry Sound Peterborough Prince Edward Sudbury Primiskaming Waterloo Wellington Total FINGERLINGS	60,000 5,000 60,000 55,000 8,000 40,000 27,500 20,000 30,000 105,000 100,000 120,000 100,000 15,000	Brant Hastings Manitoulin Parry Sound Peterborough Miscellaneous  Total  MASKINONGE FRY Haldimand Hastings Leeds Lennox-Addington Manitoulin Muskoka Nipissing Northumberland Ontario Parry Sound Peterborough Prince Edward Renfrew Simcoe Stormont Sudbury Victoria	10,000 10,000 125,000 10,000 125,000 10,000 65,000 40,000 30,000 705,000 40,000 20,000 15,000 20,000 15,000 10,000

26 DELARTIM	ENT OF CIM	HI HIVD TISHIBITIES	
CONCINC AND OHANTITE	re of rish	PLANTED IN PROVINCIAL V	VATERS.
SPECIES AND QUANTITIES	1942 to March	a 31st, 1943—Continued	,
			10.000.000
MASKINONGE-Contin	aued	Parry Sound Peterborough	18,300,000
DINCEDLINCS		Prince Edward	
FINGERLINGS		Rainy River	24,500,000
Northumberland	165	Renfrew	10,600,000
Peterborough	440	Russell	
Victoria	100	Stormont Sudbury	250,000
Total	705	Thunder Bay	1.000.000
10tai		Timiskaming	4,450,000
		Victoria	3,450,000
MUNNOWS	<b>.</b>	Great Lakes	46,400,000
Haldimand	500	Total	283,310,000
Total	500	BROWN TROUT	
PERCH		FINGERLINGS	
Lake Erie	22 175 000	Brant	12,000
Lake St. Clair (Mitchell's Bay)	1.000.000	Norfolk	
		Oxford	
Total	24,175,000	Miscellaneous	2,000
		Total	23,000
PICKEREL		7.5.1.77.77.00	
EYED EGGS		YEARLINGS	
Exchange	1,000,000	Brant	24,600
Sale	200,000 500,000	Bruce	
Algoma Bruce	1 275 000	Durham	
Grey	200,000	Elgin Grey	
Muskoka	1,500,000	Haldimand	
Nipissing	3,000,000	Halton	
Ontario	400,000	Hastings	19,200
Rainy River	1 875 000	Huron	8.100
Simcoe Sudbury	4.250.000	Lambton	0.000
Wellington	250,000	Lincoln	
		Norfolk	
Total	18,450,000	Northumberland	
		Ontario	
FRY		Oxford	
Algoma	14 310 000	Parry Sound Peel	3,400 10,800
Bruce	750,000	Perth	
Carleton	2,500,000	Peterborough	17,801
Cochrane		Simcoe	31,500
Frontenac		Waterloo	
Grenville Haldimand		Welland	40 000
Haliburton		Wellington Wentworth	
Hastings		York	10 200
Kenora			
Kent	500,000	Total	359,275
Lanark			`
Leeds Lennox-Addington		Y AND DECEM	
Manitoulin		LAKE TROUT	
Middlesex	750.000	EYED EGGS	
Muskoka		Exchange	400,000
Nipissing Northumberland		Total	400,000
Normanoenand	1,300,000	1 0 141	100,000

# SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1st, 1942, to March 31st, 1943—Continued

LAKE TROUT—Contin	ued	KAMLOOPS TROUT	
FRY		YEARLINGS	
Frontenas	87,000	Bruce	2,400
Hastings		Grey	1,800
Lennox-Addington		Muskoka	
Nipissing		Parry Sound	5,200
Peterborough		•	
Great Lakes	150,000	Total	24,800
Total	367,000	SPECKLED TROUT	
FINGERLINGS		FRY	
Algoma	415,000	Miscellaneous—Sale	500
Cochrane		Miscenaneous—sale	500
Frontenac	85,000		
Haliburton		FINGERLINGS	
Hastings	159,000	Algoma	16,700
Kenora		Grey	23,875
Lanark		Peel	170,000
Leeds		Thunder Bay	379,200
Lennox-Addington	31,000	Timiskaming	40,000
Manitoulin		Miscelfaneous	2,000
Muskoka		2.225001.00200015	2,000
Nipissing		Total	631,775
Parry Sound			001,000
Peterborough	10,000		
Rainy River		SPECKLED TROUT	
Renfrew			
Simcoe		YEARLINGS	
Sudbury Thunden Bass		Algoma	395,150
Thunder Bay Timiskaming		Brant	1,900
Great Lakes	51,000	Bruce	11,840
Citeat Dakes	11,001,000	Cochrane	145,800
Total	15 429 600	Dufferin	15,500
1 0 001	. 10,125,000	Durham	21,800
YEARLINGS		Elgin	8,000
Bruce	1,200	Frontenac	53,035
Grey		Grey	108,700
Nipissing		Haliburton	49,800
Timiskaming	3,000	Hastings	101,500
Timbacaning	5,000	Huron	4,050
Total	10,680	Kenora	4,200
	20,000	Lanark Leeds	21,200
RAINBOW TROUT		Lennox-Addington	$\frac{1,400}{47,200}$
		Lincoln	1,500
FINGERLINGS		Manitoulin	111,000
Algoma	00,000	Muskoka	159,000
Manitoulin		Nipissing	249,675
Sudbury	18,000	Norfolk	18,100
Total	111 000	Northumberland	37,781
10001	111,000	Ontario	3,800
YEARLINGS		Oxford	900
Dufferin	1,800	Parry Sound	96,100
Elgin	500	Peel	8,000
Haliburton	1.000	Peterborough	54,990
Norfolk	3 500	Renfrew	99,050
Simcoe	. 3.600	Simcoe	24,800
Waterloo	2,000	Sudbury	415,350
York	. 50E	Thunder Bay	424,942
Total	40.55	Timiskaming	198,100
Total	12,900	Victoria	3,100

# SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1st, 1942, to March 31st, 1943—Continued

#### SPECKLED TROUT-Continued

Waterloo	4,800	FRY	
Wellington York Miscellaneous	7,200 2,000 7,250	Kenora	44,460,000
Total	2,918,513	Kenora Manitoulin Rainy River Thunder Bay Great Lakes	17,500,000 1,000,000 318,842,000
ADULTS		Total	394,802,000
Algoma Grey Thunder Bay	5,313 175 2,039	HERRI	
Total	7,527	Lake ErieLake Ontario	430 000
WHITEFISH EYED EGGS		Total	18,430,000
Thunder Bay	250.000		

 ${\rm APPENDIX}/{\rm NO.~2}$  DISTRIBUTION OF FISH ACCORDING TO SPECIES — 1938 TO 1942, INCLUSIVE.

	1938	1939	1940	1941	1942
Large-Mouthed Black Bass Fry Fingerlings Yearlings and Adults	57,500 8,061	1,890 497	230,000 5,500 152	110,000 17,700 100	185,000 19,100 290
Small-mouthed Black Bass Fry Fingerlings Yearlings and Adults	804,000 169,800 7,738	1,386,000 226,325 7,739	2,512,500 449,154 1,671	1,911,500 691,925 2,254	1,535,500 718,259 2,355
Maskinonge Eyed Eggs Fry Fingerlings	2,005,000	120,000 2,675,000 1,300	2,345,000 2,333	2,100,000 1,494	1,575,000 705
Perch Fry	59,150,000	72,360,000	13,000,000	31,600,000	24,175,000
Pickerel (Yellow) Eyed Eggs Fry Adults	2,012,500 271,567,500	7,000,000 327,500,000	2,000,000 393,887,000 100	4,500,000 223,490,000	18,450,000 283,310,000
Pickerel (Blue) Fry	500,000				
Brown Trout Fingerlings Yearlings	59,592*	29,954 375,070	182,725 252,000	60,000 346,188	23,000 <b>359</b> ,275
Lake Trout Eyed Eggs Fry Fingerlings Yearlings		1,845,850 7,236,900 9,964,400	575,000 7,564,000 7,312,100	800,000 913,000 18,066,400	400,000 367,000 15,429,600 10,680
Atlantic Salmon Fingerlings Yearlings	4,800	*	<b>_</b>	45,385	
Rainbow Trout Fingerlings Yearlings Adults		109,635 23,145 1,009	298,420 19,724	164,000 11,750	111,000 12,900
Kamloops Trout Fingerlings Yearlings	25,821	105,000	26,500	88,150 25,000	24,800
Speckled Trout Eved Eggs Fingerlings Yearlings Adults	1,000 373,314 2,083,538 4,452	337,000 2,976,559 6,315	611,375 3,278,114 7,150	394,000 3,060,174 16,732	500‡ 631,775 2,918,513 7,527
Whitefish Eyed Eggs Fry	323,700,500	326,657,000	403,339,000	<b>375</b> ,960,500	250,000 394,802,000
Herring Fry	49,725000	38,550,000	49,050,000	8,630,000	18,430,000
Miscellaneous		41			500†
TOTALS	733,265,643	799,496,629	886,995,903	672,960,876	763,750,279

#### APPENDIX

#### STATISTICS OF THE FISHING INDUSTRY IN THE PUBLIC WATERS OF

#### **EQUIP**

	No.of	Tugs			Gasoline Launches		Sail and Row Boats		Gill Nets	
District	Men	No.	Tons	Value   \$	No.	Value S	No.	Value \$	Yards	Value \$
Northern Inland Waters Lake Superior North Channel Georgian Bay Lake Huron Lake St. Clair Lake Erie Lake Ontario Southern Inland Waters	123   349   271   95	3 11 5 13 10 44	35 324 110 347 224 615	10.500 64,500 29,800 96,956 78.000 281,400	111 38 114	81.040 -51.580 19.075 106.872 61.400 12.935 200.900 116.940 2.605	31	2.105 3.545 9.030	892.611 348,050 1.364,877 1,153,269 2,147,000 1,266,200	110,292 44,119 162,174 129,005 291,565 129,261
Tetals	3336	86	1,655	561,156	909	653.347	870	47.971	7.674.567	930,944

#### APPENDIX

#### QUANTITIES OF

Distriet	Неттівд	Whitefish	Trout	Pike =	Pickerel (Blue)	Pickerel (Dore)	Sturgeon
	lbs.	lbs.	lbs.	, lbs.	lbs.	lbs.	lbs.
Northern Inland Waters Lake Superior North Channel Georgian Bay Lake Huron Lake St. Clair Lake Erie Lake Ontario Southern Inland Waters	1.392,450 11.511 51,822 362,441 61,789	319,655 84,945 583,922 113,865 2,524,009	1,360,971 123,414 1,274,333 800,095	35.526 535 13.309 30,776	9 1,269 2,252 4,405,014 27,729	91,898 25,971 54,658 175,802 57,773 421,281	2,204 3,520 463 5,646 2,976 14,924
Totals	2,975.406	5.434,364	3.845.311	1,158,771	4.438.098	2,269,952	88,483
Values	\$240,963.56	\$1.081.522.28	\$706.513 27	\$82,005.04	\$487,636.20	\$290,436.40	\$40,534.58

NO. 3

THE PROVINCE OF ONTARIO, FOR THE YEAR ENDING DECEMBER 31, 1942.

MENT

	Seine N	lets										Piers and Wharves		rves TOTAL	
No.	Yards	Value \$	No.	Value \$	No.	Value \$	No.	Value \$	No. Hooks	Value \$	No.	Value   \$	No.	Value \$	VALUE 5
			42 50 36	14,820 20,625 16,400		3,275	1	2	1.550	170	122 67 30	31,735 19,630 7.275	97 56 25	11,165 12,290 8,700	284,092
6	900	820	67 97	70,180 62,900	39	450	1	2	12,600 3,300	2,280 600	53 48	16,100 21,325	54 16	41,344 4,435	502,253
19 37	5,000 10,025	3,650 7,350	110 518	$\begin{array}{c} 14,650 \\ 280.250 \end{array}$	10	2,000		90	3,900 1,200	301	20 111	6,575 158,200	9 83	2,575 27,930	1,258,749
8	735 3,420	820 6,015			364 178	9,945		15	2,100	100 27	33 14	6,940 1,645	31 4	6,755	
110	20,080	18,655	920	479,825	  654 	20,066	44	226	25,800	3,512	498	269,425	375	115,679	3,100,806

#### NO. 4

#### FISH TAKEN

Eels	Perch	Tullibee	Catfish	Carp	Mixed Coarse Caviare		TOTAL	VALUE
lbs.	lbs.	lb	lbs.	1614.	lb∹.	lbs.	lbs.	\$
313 15,734 2,531	13,328 795 23,904 3,774 311,492 33,001 964,981 210,994 3,175	118,070 10,900 26,104 53,419 222,366	150 59 4,471 20,272 96,680 61,270 60,616 72,128	360 1,227 29,672 10,128 133,315 235,373 219,570 211,949	165,896 179,832 66.371 56,511 258,719	1,345 39 282 207 749 15	3,362,460 534,681 2,163,457 2,080,704 598,232	285,038.76 60,462.21 398,911.63 323,562.60 53,036.56 1,388,337.01
18.578	1,565,444	435,859	315,646	841.594	2,990,624	2,637	26,380,767	
1.060.93	164,636.15	68.403.21	31,999.00	47,934.S0	124,466.51	3 859.25		3.371,971.18

Species	1941 Pounds	1942 Pounds	Increase Pounds	Decrease Pounds
Herring Whitefish	6,369,932 4,412,137	2,975,406 5,434,364 3,845,311		761,566 935,568 566,826
Pike Pickerel Blue Pickerel Dore	1,620,949 2,311,413	1,158,771 4,438,098 2,269,952	57,635 2,817,149	41,461
Sturgeon Eels Perch	18,675 2,460,181	\$8,483 18,578 1,565,444		10,865 97 894,737
Fullibee Carp Catfish	983,595 447,518	435,859 841,594 315,646	241.025	204,294 142,001 131,872
Mixed and Coarse Caviare		2,990,624	245,978	339
Total	26.949,631	26,380.767		*568.864

<sup>\*</sup>Net Decrease

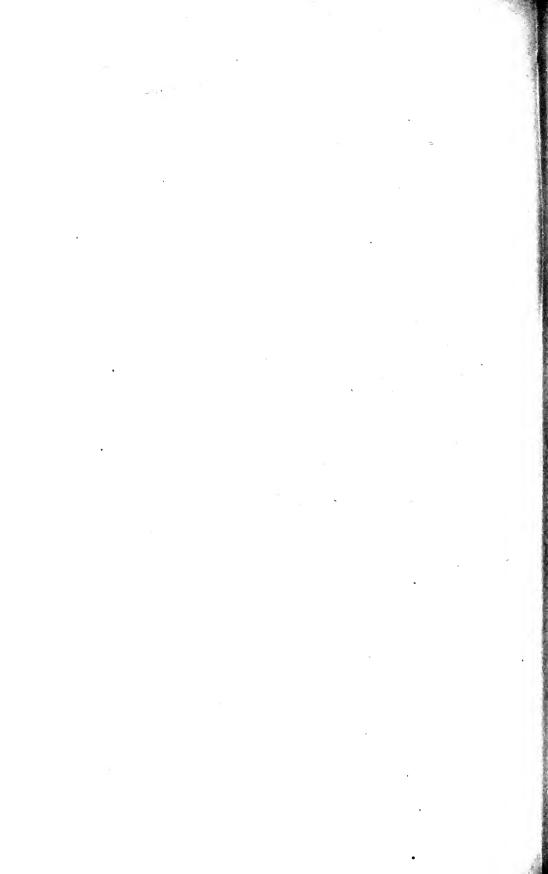
APPENDIX NO. 6
STATEMENT OF THE YIELD OF THE FISHERIES OF ONTARIO

Species	Quantity Pounds	Estimated Value
Herring	2,975,406	\$240,963.56
Whitefish	5,434,364	1,081,522.28
Frout	3,,845,311	706,513.27
Pike	1,158,771	82,005.04
Pickerel Blue	4,438,098	487,636.20
Pickerel Dore	2,269,952	290,436,40
Sturgeon	88,483	40,534.58
Eels	18,578	1,060.93
Perch	1,565,444	164,636.15
Tullibee	435,859	68,403.21
Catfish	315.646	31,999.00
Carp	841,594	47,934.80
Mixed and Coarse	2,990,624	124,466.51
Caviare	2,637	3,859.25
Total	26.380.767	\$3,371,971.18

#### APPENDIX No. 7

# ESTIMATED VALUE OF FISH TAKEN FROM THE WATERS OF THE PROVINCE \$1923-1942\$

1923	\$2,886,398.76
1924	3,139,279.03
1925	2,858,854.79
1926	2,643,686.28
1927	3,229,143.57
1928	3,033,944.42
1929	3,054,282.02
1930	2,539,904.91
1931	2,442,703.55
1932	2,286,573.50
1933	2,186,083.74
1934	2,316,965.50
1935	2,633,512.90
1936	2,614,748.49
1937	2,644,163.49
1938	2,573,640.97
1939	2,564,516.37
1940	2,226,418.18
1941	2,147,008.48
1942	3,371,971.18



## **Thirty-Seventh Annual Report**

OF THE

# Game and Fisheries Department

1943 - 1944

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 9, 1945



TO THE HONOURABLE ALBERT MATTHEWS,
Lieutenant-Governor of the Province of Ontario.

#### MAY IT PLEASE YOUR HONOUR:

I have the honour to submit herewith for the information of Your Honour and the Legislative Assembly, the Thirty-Seventh Annual Report of the Game and Fisheries Department of this Province, for the year ending March 31st, 1944.

I have the honour to be,

Your Honour's most obedient servant,

G. H. DUNBAR,

Minister in Charge,

Department of Game and Fisheries.

TORONTO 2, March 21st, 1945.

#### THIRTY-SEVENTH ANNUAL REPORT

OF THE

## **Department of Game and Fisheries of Ontario**

TO: THE HONOURABLE G. H. DUNBAR,

Minister in Charge,

Department of Game and Fisheries.

SIR:

I have the honour to submit to you herewith the Thirty-seventh Annual Report of the Department of Game and Fisheries, in wich is contained information with reference to the activities of the various Departmental services, and in which are included condensed statistics and comparative tables for the fiscal year ended March 31st, 1944, and other information which will probably be of interest.

#### INTRODUCTORY

The period under review found the nation still at war, and all of its resources directed towards crushing the forces of oppression which have threatened to overrun our democratic civilization. This deflection of the national economy from the usual channels of peace to the more urgent task of winning the war has added to the difficulties of administration and is reflected in certain branches of Departmental activity. Despite adverse conditions which have as a result prevailed the normal operations of the Department have been continued and maintained at a high level.

By reason of the urgency of the war effort, transportation difficulties and the shortage of ammunition sportsmen have not been able to indulge as freely as was possible in normal times in the twin sports of hunting and fishing. As a consequence it is quite likely that fewer fish were taken and less game destroyed thus leaving a larger adult stock for propagation purposes, and this should result in increased natural reproduction.

Education along conservational lines has been stimulated through the various campaigns sponsored by the many branches of Government and Industry, to promote economy in the use of available resources, and the careful salvage of every item that might be of value in the war effort. In any evaluation of natural resources it is now generally recognized that wild-life forms an important part of the total assets of the nation. It provides, among other things, food and clothing, and is the incentive to outdoor recreation which is conducive to health and good citizenship. For these reasons the wise use of such natural resources is imperative, and the protection thereof is a patriotic duty. It is no exaggeration to say that the public is more conservation minded to-day than ever before, and this attitude is of great importance and assistance to the Department in its efforts to maintain sufficient resources to meet demands which we have every reason to believe will increase following the cessation of hostilities.

The vast extent of the land and water area of the Province,—some 412,000 square miles,—embraces in its physical features every requisite for the development and perpetuation of our wild-life heritage. Its huge forest areas and wild lands; its rugged geological formations; its swamps and marshes, bounded by areas of rich agricultural land; and its sparkling lakes and free-flowing rivers; all these constitute an environment capable of sustaining an abundance of wild-life, provided the essentials of conservation are understood and practised. Such an extensive territory, however, presents many problems which add to the complexity of adminis-

tration. It involves extreme weather conditions, varied as to time and place; wild and sometimes inaccessible terrain; diverse land uses, often adversely affecting water conditions and natural habitat; and a multiplicity of destructive factors which must be continually kept under control. In administering this valuable inheritance the Department is guided by the necessity for protecting the capital stock, maintaining an adequate supply and ensuring an equitable distribution. These three phases are met by sound laws properly enforced, an extensive programme of fish culture operations, and adequate sanctuary for all classes of game. A complete resume of Departmental activities will be found herein.

#### **FINANCIAL**

Following is a summary of the revenue collected by the Department of Game and Fisheries during the fiscal year under review, and this statement also details the various sources from which these receipts were derived and the amounts attributable thereto.

REVENUE FOR THE FISCAL YEAR ENDING MARCH 21st 1044

¥ 1		
Licenses—	40.000.75	
Trapping\$	·	
Non-resident hunting	89,450.00	
Deer	115,395.90	
Moose	4,697.00	
Gun	75,152.65	
Dog	6,808.00	
Fur Dealers	30,130.00	
Fur Farmers	6,370.00	
Tanners	140.00	
Cold Storage	213.00	
·	378,047.30	
Royalty	145,595.45	
	\$	523,642.7
Licenses— Fishing (Commercial)	91,172.00 288,685.00	
. <del>-</del>	\$379,857.00	
Royalty	11,971.45	
- Toyatty		391,828.4
ENERAL— Licenses—		
Tourist Camps\$	5,990.00	
Guides	5,970.00	
-	11,960.00	
Fines	14,418.70	
Costs Collected (Enforcement of Act)	584.40	
Sales—Confiscated articles, etc.	27.087.41	
Rent	3,342.00	
	1,973.20	
Commission retained by Prov on sale of lic	2,0.0.20	
Commission retained by Prov. on sale of lic	235.69	

The total of \$975,072.60 is slightly in excess of the revenue which was collected by this Department in the previous fiscal year when the sum of \$962,350.89 was secured as a result of our operations. Notwithstanding the prevalence of the unfavourable conditions to which previous reference has been made it may be stated the collection of revenue was not too adversely affected.

Reference to fluctuations in comparison with the previous year may be of interest and the following comparisons are therefore detailed for information:—

Fees from the sale of non-resident hunting and angling licenses which in 1943-44 amounted to \$378,135.00 were \$21,373.85 less than the amount collected from the same source in 1942-43. This is a condition which resulted from circumstances over which we had no control and was a decrease, though not of a very substantial nature, which had been anticipated due to the difficulties of transportation and other conditions attributable to the necessity for devoting the utmost time and energy to the intensive prosecution of the war effort.

Details in connection with the issue of non-resident licenses are as follows:-

#### ANGLING

Individual (Seasonal)	27,314
Individual (Three-day)	27,622
Family	12,593
Manitoba Residents	699
Boys' Camp	13
HUNTING	
Small game	1,605
Deer	1,782
General	504
Bear (spring season)	157

Other declines in revenue included \$29,098.01 from the sale of resident licenses to hunt deer and moose, and gun and dog licenses, more than \$27,000.00 of which total was due to the decreased revenue from the reduced sale of gun licenses, and this no doubt was by reason of the fact, among others, that certain types of sporting ammunition were not readily available to those interested in hunting. Fees from the sale of Tourist Outfitters' and Guides' Licenses decreased \$1,445.00 and penalties collected following convictions for violations of provisions of the Game and Fisheries Act and Regulations decreased \$3,261.10.

Details in connection with the issue of resident hunting licenses are as follows:—

Deer	31,067
Deer (Camp)	371
Deer (Farmers')	6,858
Moose	854
Gun	87,504

The item of revenue which showed the largest increase was the sum derived from the collection of royalties on the pelts of fur-bearing animals. These royalties are collected upon issue by the Department of permits to authorize the exportation from the Province or the dressing of such pelts. The amount collected from this source in 1943-44 was \$23,563.30 in excess of the sum derived from the same source in 1942-43. Fees from the sale of trapping and fur-dealers licenses in 1943-44 increased \$10,088.30 and \$3,842.00 respectively. This is a total increase of \$37,493.60 in revenue derived from the operations of those actively engaged in the raw fur industry.

The revenue derived from the commercial fishing industry, that is from the sale of fishing licenses and the collection of royalties, totalled \$103,143.45, which was \$18,636.13 in excess of the total received from the same branch in the previous fiscal period.

From the sale of articles confiscated from those convicted of offences against provisions of the Game and Fisheries Act we derived in 1943-44 the sum of \$27,087.41, an increase of \$12,308.16 over the previous years' revenue from the same source. This substantial increase would be attributable chiefly to the fact that the 374 beaver which were included in the sales of confiscated fur conducted in 1943-44 were superior to the 313 beaver sold in 1942-43 and the further fact that the public demand for such fur was reflected in increased market prices in 1943-44. The average price of beaver realized in the 1943-44 sale was \$37.00 as compared with an average price of \$16.00 in 1942-43.

During the year the total expenditures incurred by the Department, including both ordinary and capital amounted to \$574,525.05 and these were practically equal to the 1942-43 expenditures. Details of these expenditures are set forth in the following statement:—

#### EXPENDITURE FOR THE FISCAL YEAR ENDING MARCH 31st, 1944

#### ORDINARY-

Main Office \$ General	52,849.76 41.782.05
Enforcement	206.375.40
	,
Game Animals and Birds	7,103.12
Macdiarmid	2,936.66
Biological and Fish Culture	204,043.51
Grants	5,400.00
Wolf Bounty	46,545 77
Bear Bounty	3,695.00
Total Ordinary\$	570,731.27
Capital	3,793.78
Total Expenditure\$	574,525.05

As compared with figures for the previous year the only important changes in the amounts shown in these various sub-totals is an increase of \$12,939.15 in the payments of wolf bounties and a decrease of \$10,845.93 in the expenditure made for the purchase of game animals and birds for use in connection with our re-stocking operations and the reasons for which are explained in other sections of this report. As has been the case in the past several years the most important items of our expenditures occur in connection with the maintenance of the field service engaged in providing enforcement of the Game and Fisheries Act and Regulations and for the operations of the Fish hatcheries throughout the Province and distribution of fish for the replenishment of fishing in suitable waters under the supervision of the Biological and Fish Culture Branch, both of which services are the subject of more detailed references further along.

The allotment for grants was distributed as follows:—\$2,500.00 to the Ontario Fur Breeders' Association to encourage their efforts to improve the Fur Farming industry in Ontario; \$500.00 to Professor W. J. K. Harkness for use in his research work towards improving the practice which at present prevails in fish culture operations; \$500.00 to the Ontario Federation of Anglers and Hunters to be used in their programme to improve the practice of conservation and secure observance of the various provisions of the Legislation applicable to the sports

of hunting and fishing; and the remaining \$1900.00 in varying amounts was granted to Mr. Jack Miner, Mr. T. N. Jones and Miss Edith L. Marsh in appreciation of their services in providing sanctuary for migratory and native birds on their properties located in the counties of Essex, Elgin and Grey respectively.

As will be noted capital expenditures were rigidly restricted and were made simply to provide repairs and minor improvements to the fish hatchery properties at Southampton, Normandale, Wiarton and North Bay, to the Departments' property at the Macdiarmid fishing station on Lake Nipigon and to the bird farm operating at Normandale.

The favourable balance of revenue over expenditure for the year was \$400,547.55.

The following table details departmental revenue and expenditure for the fiscal years from and including the period which ended March 31st, 1936:—

	Revenue	Expenditure (Ordinary & Capital)	Surplus
1935-36	\$ 683,938.72	\$ 451,041.91	\$ 232,896.81
1936-37	782,217.63	474,128.95	318,088.68
1937-38	866,558.19	563,938.33	302,619.86
1938-39	914,475.24	575,437.79	339,037.45
1939-40	1,015,350.82	568,198.55	447,152.27
1940-41	984,800.69	512,834.70	471,965.99
1941-42	1,183,269.29	576,762.26	606,507.03
1942-43	962,350.89	574,732.49	387,618.40
1943-44	975,072.60	574,525.05	400,547.55

#### GAME

Herewith is a summary of conditions as they apply to the various species of game animals and birds which are to be found in Ontario, and which information has been compiled from reports submitted by our field officers throughout the Province:

**DEER:**—In addition to the open seasons definitely established by provisions of the Game and Fisheries Act in the various divisions which prevail, special regulations affecting the deer season were adopted and created the following provisions, viz:—

- (a) The open season in that part of Ontario lying south of the French and Mattawa Rivers and Lake Nipissing as defined in clause (d) of Section 7 of the Game and Fisheries Act, in 1943, extended from November 8th to 20th.
- (b) An open season in that portion of the County of Carleton lying west of the Rideau River, from November 8th to 20th, 1943.
- (c) An open season in the Counties of Bruce, Grey, Dufferin and Simcoe from November 15th to 20th, 1943. In this instance the use of dogs for the hunting of deer during this open season in these counties was not permitted.
- (d) An entire close season throughout the year was provided to apply in the Township of Cambridge (Russell County) and in the Township of Howe Island (Frontenac County).
- (e) In the following townships in the District of Algoma, viz:—Y, Z, 7Z, 5A,6A, 7A, 5B, 6B, 7B, 5C, 6C, 7C, 5D, 6D, 7D, 5E, 6E, 7E, 5F, 6F and 7F, the open season was varied and in 1943 extended from October 15th to November 25th.

Advice from our field officers with reference to this fine species of game animal would indicate that as a general rule very favourable conditions prevailed during the period covered by this report. There were of course some exceptions, but this is not unexpected in an area so extensive as that which is comprised within the boundaries of the Province. There are many sections of Ontario in which settlement, industrial development and the lack of suitable environment and cover have resulted in necessary migration and the consequent diminution of deer herds which formerly inhabited such areas, but it can be safely stated that in those areas in which suitable and desirable habitat is to be found deer continued to provide satisfactory hunting for many thousands of our own hunters as well as for hundreds of visiting sportsmen from the United States who participated in the joy and pleasure which are derived from the recreation such sport provides.

These animals are reported to be plentiful in many sections of the northern portion of the Province, extending from Lake Nipissing in the east to the Lake of the Woods in the west, and the same conditions are reported from that portion of southern Ontario below the French and Mattawa Rivers, north of the southern boundary of the District of Muskoka and between the Georgian Bay and the Ottawa River.

They are also reported to be numerous and increasing in many of the southwestern and southeastern counties in which the complete protection of an entire closed season has been in effect for many years.

MOOSE:—This species is practically non-existent in the larger proportion of Southern Ontario. There are reports that specimens have been observed, though their numbers are very scarce, in Victoria, Hastings, Addington, Frontenac, Renfrew, Haliburton, Muskoka and Parry Sound, and little, if any, improvement has been observed. They are more prevalent in the northern portion of the Province, but it cannot be stated that they are more than fairly plentiful in any particular section. Improved conditions affecting this species are reported from some sections of the Districts of Nipissing, Temiskaming, Algoma and Kenora. The sale of hunting licenses for the taking of moose is quite limited as will have been observed in a previous portion of this report, which fact might be construed as an indication that such hunting is a branch of sporting activity which does not interest many sportsmen.

In addition to the open season for moose which is established by legislative authority, a special open season was declared by Regulation to be effective in that portion of the Districts of Nipissing, Temiskaming and Sudbury defined in subclause (i) of clause (b) of Section 7 of the Game and Fisheries Act to extend from October 15th to 30, 1943.

CARIBOU:—The protection which has been provided for this species in the way of an entire close season which has been in effect for the past several years throughout Ontario has unfortunately not resulted in any very noticeable improvement or increase in the number of the herds of caribou which inhabit this Province. They are extinct in southern Ontario and only from the Districts of Cochrane, Sudbury, the northern part of Algoma and Thunder Bay has their existence been reported and even in such instances it is stated by the officers concerned that they are few in number, with little, if any, improvement in their condition or numbers.

ELK:—Such of these animals as are to be found in Ontario at present are the result of efforts undertaken by this Department in past years to establish this species in the Province. The original stock was received from Western Canada through the co-operation of the National Parks Branch of the Federal Department of Lands, Mines and Resources. Some have been liberated in sections of Peterborough County, and in the Districts of Temiskaming (Township of French), Sudbury (Burwash Crown Game Preserve), Algoma (Chapleau Crown Game Preserve), and Thunder Bay (Nipigon-Onaman Crown Game Preserve).

Reports from most of these areas indicate some slight increase.

BUFFALO:—A small herd of buffalo was brought into Ontario from Alberta in 1939, and they were placed on the Burwash Crown Game Preserve. Improvement or increase has been negligible.

BEAR:—These animals are fairly plentiful throughout the northern portion of the Province and in the northern Districts of southern Ontario. While they do provide a measure of sport in which a goodly number of hunters participate, and in this connection it is interesting to note that such hunting in the months of April, May and June has an appeal for United States hunters who visit Ontario for this purpose, nevertheless this species has in more recent years become somewhat of a nuisance, particularly in some of the more thickly settled sections in the north, where they have been responsible for damage among domestic herds and flocks, and due to this very undesirable condition it has been necessary to provide a regulation to encourage the destruction of bears in such settled areas and under which regulation provision is made for the payment of a bounty on these animals which are killed in certain defined areas. Detailed results of the operations under this Regulation are included elsewhere in this Report.

RABBITS:—The three species of rabbit which are most prevalent in Ontario are the cotton-tail rabbit, the European Hare (or jack-rabbit), and the varying hare (or snowshoe rabbit). The cotton tail rabbit is found in most of the southern counties, the jack rabbit in the southwestern counties, and the snowshoe rabbit in the northern portion of the Province and in the northern districts and eastern counties of southern Ontario.

Reports to the Department indicate that as a general rule these animals were plentiful, though there were areas in scattered portions of the Province in which such conditions did not exist and in which these animals were reported to be not so plentiful and their numbers somewhat decreased. Information regarding diminished numbers of cotton-tail rabbits was received from a majority of counties in southeastern Ontario, and advice of similar conditions with respect to the snow-shoe rabbit came from eastern counties as well as from some of the northern Ontario districts.

Generally speaking, rabbits continued to provide a goodly proportion of the desirable hunting which is available, particularly in the late fall and early winter months.

PARTRIDGE:—as a general rule reports were not so favourable regarding conditions applicable to the various species of partridge as had been the case in previous years, though they continued to be sufficiently plentiful to warrant the adoption of a regulation which provided for an open season for the taking of these birds. Two separate periods to constitute this open season were set out in the Regulation which governed, viz:—from October 2nd to 16th and from November 8th to 15th, 1943. The later period was in effect throughout the entire Province, excepting in Provincial Parks and Crown Game Preserves, and during the October period such hunting was prohibited not only in the Parks and Crown Game Preserves, but also in the Counties of Essex and Kent and in the Townships established as Regulated Game Preserve Areas, though in Essex, Kent and Lambton and the Regulated Townships provision was made for the hunting of partridge during the period which was provided in these areas for the hunting of pheasants. The general bag limit was five (5) birds per day, and not more than twenty-five (25) during the two periods.

HUNGARIAN PARTRIDGE:—There are but few sections in the Province in which these birds are to be found. They are reported to be not too plentiful in any particular area, and but little improvement has been observed. The sections in which they are most plentiful are the very extreme southwestern and southeastern coun-

ties. This species is not native to the Province and such birds as do inhabit suitable sections are the result of previous efforts on the part of the Department to establish this species in Ontario. Hunting of Hungarian Partridge provided by regulation was permitted only in the counties of Essex and Kent, on October 28th, 29th and 30th, 1943, with a bag limit of two (2) birds per day.

PHEASANTS:-The general policy of restocking suitable cover with English ringnecked pheasants was continued during the year under review, but an unfavourable condition on the breeding farms, much of which developed as a result of a serious lack of experienced help due to the demands of more necessary war services, was followed by reduced production and the consequent large decrease in the number of birds which was made available for purchase by the Department for this purpose. We are able to secure only a total of 7,404 pheasants to meet all our demands for general distribution and as a result the Department was greatly handicapped in its efforts to continue the previous policy. Extreme care was essential in the matter of allotting shipments as they became available, and while requirements could not be completed in any instance, officials in the Department who were responsible for the distribution displayed such a measure of diligence and care in the details of organization that most of the Regulated Township areas received some birds, even though the total required was not produced. This condition quite naturally made it necessary that there should be some curtailment in the open season which was provided and generally only two days' shooting was allowed in these Regulated Townships.

Pheasants totalling 6,512 were distributed among the various townships included in the scheme of Regulated Game Preserve Areas, 415 were liberated in the county of Essex and a similar number in the county of Kent, while 25 of these birds were placed in the Barkley Crown Game Preserve in the county of Dundas, and the remaining 37 were made available to the St. Catharines Branch of the Ontario Bird Dog Association.

Details of the distribution in the Regulated Townships are as follows:— County of Brant, (three townships,-Burford, South Dumfries and Onondaga), 180 birds; County of Elgin, (Five townships,-Aldborough, Bayham, Dorchester South, Dunwich and Malahide), 168 birds, 48 of which were adult birds; County of Haldimand, (eight townships,-Canboro, Dunn, Cayuga North, Cayuga South, Moulton, Seneca, Sherbrooke and Walpole), 690 birds; County of Halton, (four townships,— Esquesing, Nassagaweya, Nelson and Trafalgar), 495 birds; County of Lincoln, (eight townships,- Caistor, Clinton, Gainsboro, Grimsby North, Grimsby South, Grantham, Louth and Niagara), 743 birds, 19 of which were adult birds; county of Middlesex, (two townships,—Metcalfe and Westminster), 92 birds, 37 of which were adult; County of Norfolk, (four townships,-Middleton, Townsend, Windham and Walsingham), 285 birds; County of Ontario, (three townships,—Pickering, Whitby East and Whitby West), 430 birds, 70 of which were adult birds; County of Oxford, (two townships,-Dereham and East Oxford), 98 adult birds; County of Peel, (five townships,-Albion, Caledon, Chinguacousy, Toronto and Toronto Gore), 540 birds; County of Prince Edward, (one township,-South Marysburgh), 41 birds; County of Welland, (eight townships,-Bertie, Crowland, Humberstone, Pelham, Stamford, Thorold, Wainfleet and Willoughby), 894 Birds; County of Wellington, (one township, Puslinch), 105 birds, County of Wentworth, (eight townships, --Ancaster, Barton, Beverly, Binbrook, Glanford, Flamboro East, Flamboro West and Saltfleet), 675 Birds; County of York, (seven Townships,-East Gwillimbury, North Gwillimbury, King, Markham, Scarborough, Vaughan and Whitchurch), 1076 birds, of which 359 were adult birds. Except as is otherwise indicated all birds distributed were poults.

Provisions of the Regulations which governed the open season for pheasants were as follows:—

(a) Pelee Island, October 28th, 29th and 30th, 1943, between the hours of 8.00 a.m. and 5.00 p.m., each day. Bag limit of four (4) birds per day, one (1) of which was to be a hen. Hunters were required to have a special license issued by the Pelee Island municipal authorities, in addition to the regular hunting license.

There was an additional regulation provided which prohibited all hunting on Pelee Island from 6.00 p.m. October 21st until 8.00 a.m. October 28th, 1943, which was the first day of the open season detailed in the preceding paragraph.

(b) Township Regulated Game Preserve Areas, (except Aldborough, Plympton, Bayham, Dorchester South, Dunwich, Malahide, Marysburgh South, Metcalfe, Westminster, Middleton and Oneida), between the hours of 8.00 a.m. and 5.30 p.m. October 22nd and 23rd, 1943;

Aldborough Township, October 22nd, 1943, between the hours of 8.00 a.m. and 5.30 p.m.; and

Plympton Township, October 30th, 1943, between the hours of  $8.00~\mathrm{a.m.}$  and  $5:30~\mathrm{p.m.}$ 

The bag limit was three cock birds per day. Hunters were required to provide themselves with special township licenses in addition to the regular hunting license.

No open season for pheasants was provided in the townships of Bayham, Dorchester South, Dunwich, Malahide, Marysburgh South, Metcalfe, Middleton, Oneida and Westminster. This was in compliance with the request from the respective Controlling Organization in these townships.

(c) Essex (excluding Pelee Island) and Kent counties, between the hours of 8:00 a.m. and 5:30 p.m. October 28th, 29th and 30th, 1943; and Lambton County, (other than Plympton Township), between the hours of 8:00 a.m. and 5:30 p.m. October 30th, 1943. Bag limit was three (3) cock birds per day.

QUAIL:—There was very little change in conditions respecting this species of game bird. Their numbers are not plentiful anywhere in the Province and they are to be found in but few sections, principally the far south-western counties, though reports were received of the existence of scattered small bevies in a few of the eastern counties along the St. Lawrence River.

Hunting of this species was provided only in the Counties of Essex and Kent on the same dates as those on which the hunting of pheasants was permitted, and the bag limit was four (4) birds per day.

DUCKS:—The various species of this division of migratory waterfowl which cross Ontario, particularly during the period of the southerly migration in the fall of the year, continue to be quite plentiful, and reports would tend to indicate that the hunting of wild ducks was greatly enjoyed by a goodly proportion of those who participate in the hunting privileges which are available in Ontario. As has been stated in previous Annual Reports the Regulations which govern the protection of wild ducks and under which hunting provisions are declared are established in accordance with the Migratory Birds Convention Act.

In 1943 the open season extended from September 15th to November 30th in the northern division, and from September 25th to December 10th in the southern division. The bag limit was twelve (12) ducks per day and not more than one hundred and fifty (150) during the period of the open season.

GEESE:—There are but few sections in which favourable wild goose shooting is available in Ontario and these are contained in the territory adjoining the southwestern shore of James Bay and in a few counties in the extreme southwesterly portion of the Province. They are observed during the period of migration in other scattered areas, but in these instances conditions are such that favourable shooting is not available.

The same period of open season prevails as in the case of wild ducks with the exception that in the counties of Essex, Kent and Elgin the open season for geese extends from November 1st to January 2nd. The bag limit is five (5) geese per day and not more than fifty (50) during the period of the open season.

WOODCOCK:—While conditions as they apply to this species have shown some improvement in a few sections of the Province, it cannot be said that they are in any way plentiful. Successful hunting of woodcock has been available only in certain southwestern, central and southeastern counties.

The open season in 1943 from October 1st to 31st was applicable throughout the Province, and the bag limits were eight (8) per day and not more than one hundred (100) during the season.

**SNIPE:**—Conditions with reference to snipe vary in different sections, and while there are some sections in which they may be successfully hunted, as a general rule they are not too plentiful.

The open season in the northern division extends from September 15th to November 15th, and from October 1st, to November 30th in the southern division. Bag limits were twenty (20) per day and two hundred (200) for the season.

PLOVER:—Thes birds are provided the protection of an entire close season under the Migratory Birds Convention Act. There are no reports from any section of the Province that they are plentiful though improvement has been noted in some areas. The present restrictions are necessary for the preservation of this species.

#### **FUR-BEARING ANIMALS**

The following is a summary of conditions which apply to fur-bearing animals throughout the Province, the information having been secured from reports from the field officers:—

BEAVER:—Reports indicate that this splendid fur-bearer continues to thrive in areas which are suitable to its propagation, and to a large extent this desirable condition is attributable to the rigid control which has been provided in recent years for its protection and the restrictions which have been made applicable during the limited periods of open season which have been provided. There are of course certain sections of the Province in which the necessity for an entire close season throughout the year still prevails if conditions are to improve and there are sections in the southern portion of the Province from which it has severed its connection probably for ever.

Favorable reports regarding the conditions which apply to beaver have been received from a majority of the northern Ontario districts and from the more northerly portions of Southern Ontario, and in view of these reports provision was again made for an open season on Beaver, in accordance with the following particulars:

- (a) Throughout Nothern Ontario (except in that part of the District of Kenora which lies south of the main line of the Canadian National Railway), and in Parry Sound, Muskoka, Nipissing (south), Victoria, Haliburton, Peterborough, Hastings, Lennox and Addington, Frontenac, Renfrew and Lanark, from December 1st to 21st, 1943. It was provided that no trapper could take more than ten (10) beaver during this open season.
- (b) In the county of Grey and in the township of Orillia (Simcoe), from November 10th to 30th, 1943. Restricted to residents of the respective areas, with the provision that no trapper should take more than ten (10) Beaver during the season. It was further provided in this case that pelts so taken were to be forwarded to the Department by the respective trappers for disposal on their behalf.

According to records which have been assembled in the Department there were 32,266 beaver taken during these periods of open season and it has been estimated that they had a value of \$1,222,558.74 to the trappers concerned. As compared with the figures for the preceding year there was an increase of 33% in the catch and, by reason of an increase in market prices, the valuation increased 57 per cent.

FISHER:—There are only a few sections of the Province in which these animals are to be found and they are extremely scarce throughout. Very few are taken, and reports would indicate there was no improvement in conditions or increase in their numbers during the period reviewed in this report.

FOX:—These animals were reported to be quite plentiful in most areas throughout the Province, and were quite evidently increasing. There were many complaints received in the Department to the effect that foxes were responsible for much serious damage to flocks of domestic poultry. This condition also resulted in considerable losses among the more desirable game birds. Many township municipal councils continued to pay a bounty on foxes killed within their respective boundaries, and conditions were so serious that it was found necessary to provide a regulation to temporarily rescind the enforcement of legislation which had existed for the protection of this species, and the taking of foxes at all periods of the year and the use of dogs for the hunting of foxes was allowed without the usual permit in the Counties of Brant, Durham, Elgin, Essex, Haldimand, Halton, Huron, Kent, Lambton, Lincoln, Middlesex, Norfolk, Northumberland, Oxford, Peel, Perth, Prince Edward, Waterloo, Welland, Wellington, Wentworth and York. There were 53,205 red foxes destroyed during the period covered by this report, respective increases of 22,000 over the previous year and more than 38,000 when compared with the figures for the fiscal period which ended March 31st, 1941.

LYNX:—These animals are extremely scarce throughout Ontario, and in the southern portion of the Province they are practically extinct. There is no indication from any section that their numbers are increasing, and but few are taken by trappers.

MARTEN:— As in the case of Fisher and Lynx, this species has become extremely scarce. There are but few evidences of their existence south of the French and Mattawa Rivers, and there is no noticeable increase in any part of Northern Ontario in which they are reported to exist. The number taken in trapping operations is very limited.

MINK:—This is one of the more pevalent species of desirable fur-bearing animal from the standpoint of the trapper. Conditions continued to be quite favorable during the period under review though there was not much in the way of change reported from any particular section. According to statistics assembled by the Department it would appear that payments received by trappers generally from the sale of Mink pelts are exceeded only by returns from the sale of muskrat and beaver pelts.

MUSKRAT:—This species is found in varying numbers practically throughout Ontario, and, while but little improvement has been reported, from the trapping of these animals during the open seasons was derived a very substantial percentage of the trappers' revenue. The open season is provided by regulation, and the periods which prevail in various divisions are established to coincide with the prevalence of suitable weather conditions in these respective divisions. It has been estimated that the value of the muskrat pelts which were taken during the open season which prevailed during the fiscal year 1943-44 was in excess of \$2,150,000.00 or more than 37% of the value of all the furs taken in trapping operations and marketed during year.

OTTER:—Conditions as they apply to this species cannot be described as better than fair, and there was no improvement reported. They are extremely scarce throughout the southern portion of the Province, and while they are somewhat

more plentiful than this in the north they are not sufficiently numerous to justify any claim that they are an important part of the trapping industry. The numbers which are taken vary but little in any particular open season, though the total catch in 1943-44 was somewhat in excess of the number taken in 1942-43.

RACCOON:—It is only in that part of the Province south of the French and Mattawa Rivers that these animals are to be found. Weather conditions in the north are too severe to encourage the hope that this species could survive to any great extent north of this area. Favourable reports regarding the prevalence of these animals were received from many southern Ontario sections. The open season produced 20,664 pelts, 50% in excess of the previous year's catch.

SKUNK:—This species continues to be plentiful throughout every section of Ontario. An average catch was the result of operations during the trapping season. The trapping of skunk is altogether too obnoxious and pelt values are not sufficient to warrant any intensive effort along these lines by licensed trappers.

WEASEL:—Conditions with respect to weasel are variable, and though they are plentiful in many sections the pelts are not sufficiently valuable to generally encourage any extensive trapping operations for the taking of this species. The catch in 1943-44 showed an increase over the previous year, and it was a good deal better than an average catch.

The following is a comparative table showing the numbers of pelts of the several varieties of fur-bearing animals taken by licensed trappers, and which were either exported or dressed, during the 1943-44 fiscal period, as well as similar figures for the three preceding years:—

	1940-41	1941-42	1942-43	1943-44
Bear	274	384	288	269
Beaver	21,605	25,197	24,194	32,266
Fisher	858	884	691	1,035
Fox (Cross)	722	1,780	2,649	4,350
Fox (Red)	15,059	32,215	31,297	53,205
Fox (Silver or Black)	67	206	265	499
Fox (White)	91	114	185	33
Lynx	383	537	552	646
Marten	1,439	1,652	1,417	1,610
Mink	38,976	63,996	60,331	52,289
Muskrat	739,224	722,387	642,810	683,450
Otter	3,931	3,880	3,557	3,964
Raccoon	11,973	13,499	13,420	20,664
Skunk	72,005	94,656	48,337	79,298
Weasel	53,719	80,776	62,553	67,461
Wolverine	2	3	6	5

Trappers experienced a very successful season both from the standpoint of an increased number of pelts which were taken and regarding the financial returns which were derived by them from the sale of such pelts. The demand for furs resulted in a considerable increase in market values for practically all species and from information compiled in the Department it has been estimated that trappers who were responsible for taking these pelts received a total of \$5,774,014.16 from the sale thereof. Due to the very favourable conditions which prevailed and to which previous reference has just been made this amount is \$2,228,076.64 in excess of the proceeds derived from such sales in the preceding season.

In addition Departmental records show that during this fiscal year licensed fur farmers marketed the pelts of 22,862 silver or black foxes, 1,243 blue foxes,

132 cross foxes and 58,110 Mink, all of which had an estimated value of \$1,859,917.63, and which was \$370,416.18 in excess of such returns in 1942-43.

It will be seen that the fur produced by trappers and by licensed fur farmers during the 1943-44 season was marketed for the total sum of \$7,633,931.79.

#### FUR FARMING

Although market prices for raw furs improved substantially, the high cost of feed and the scarcity of help caused some further recession in the fur-farming industry. During the year 1943 there were, 1,222 fur farmer's licenses issued, 1,119 being renewals of previous licenses and 103 for new fur farms. This represents a decrease of 17 per cent.

As is indicated in the following table mink and foxes are the principal species propagated on these fur farming premises. Experiments carried out by fur farmers in the raising of fisher, marten, muskrat and beaver were negligible.

BREEDING STOCK ON LICENSED FUR FARMS AS AT JANUARY 1st

	1941	1942	1943	1944
Beaver	13	18	21	23
Fisher	26	16	15	12
Cross Fox	134	112	68	58
Red Fox	65	73	96	123
Silver Black Fox	16,034	15,630	12,901	12,114
Blue Fox	397	644	595	838
Platinum Fox	X	X	125	729
White marked Fox	$\mathbf{X}$	X	1,379	2,030
Lynx	2	2	2	0
Marten	16	19	15	20
Mink	34,277	38,650	29,345	33,971
Muskrat	179	119	52	0
Otter	2	0	0	0
Raccoon	139	124	121	155
Skunk	7	5	2	0

X New type foxes previously included with Silver Black Foxes.

The subjoined table shows an analysis of the location of licensed fur farm premises:—

County or District.	Farms	County or District. Fa	arms	County or District. Farms
Algoma	17	Huron	57	Perth 44
Brant	10	Kenora	18	Peterboro 3
Bruce	51	Kent	20	Prescott 4
Carleton	27	Lambton	14	Prince Edward 5
Cochrane	5	Lanark	79	Rainy River 23
Dufferin	4	Leeds	17	Renfrew 64
Dundas	5	Lennox & Addington	1	Russell 7
Durham	5	Lincoln	5	Simcoe 78
Elgin	9	Manitoulin	17	Stormont7
Essex	11	Muskoka	7	Sudbury 6
Frontenac	25	Middlesex	45	Temiskaming 8
Glengarry	3	Nipissing	5	Thunder Bay 60
Grenville	9	Northumberland	3	Victoria 15
Grey	78	Ontario	23	Waterloo 46
Haldimand	19	Oxford	26	Welland7
Haliburton	1	Norfolk	10	Wellington 21
Halton		Parry Sound	11	Wentworth 24
Hastings	9	Peel	16	York 114

#### CROWN GAME PRESERVES

The only extension in the policy of creating and maintaining Crown Game Preserves throughout the Province was the addition of a further Beaver Sanctuary, in the District of Patricia. The area involved was contained within the following boundaries, viz:—on the east the west shore of James Bay north from the mouth of the Kapiskau River to a point in latitude 54 degrees and 30 minutes north, on the north the parallel of latitude 54 degrees and 30 minutes north west from the shore of James Bay to longitude 85 degrees, on the west the 85th meridian south from latitude 54 degrees and 30 minutes north to the south bank of the Kapiskau River, and on the south the south bank of the Kapiskau River from the 85th Meridian to the west shore of James Bay.

This area was designated as the "Attawapiskat Beaver Sanctuary" and the regulation which governs was provided at the suggestion of the Hudson's Bay Company. This regulation for the protection of beaver will be effective for a period of five years, with a provision for extension of such protection provided the terms can be reasonably observed. Trapping of fur-bearing animals other than beaver is restricted to Indians resident in Ontario, and the introduction of beaver for purposes of re-stocking the area is to be undertaken by the Hudson's Bay Company.

This is the fourth such Beaver Sanctuary which has been created in the far northern portion of the Province.

The only other regulation with reference to Crown Game Preserves which was adopted during the year provided for a change in the boundaries of the Markham Crown Game Preserve, located in the Township of Markham (York County), and which was originally established by Regulation dated April 22nd, 1936.

#### WOLF BOUNTIES

The following is a comparative statement showing annual wolf bounty statistics for a period of five years ending with the fiscal year 1943-44:—

Period	Timber	Brush	Pups	Total	Bounty & Expenses
For year ending Mar. 31, 1940	1,107	614	22	1,743	\$25,058.12
For year ending Mar. 31, 1941	738	400	8	1,146	16,477.43
For year ending Mar. 31, 1942	1,199	577	37	1,813	40,593.77
For year ending Mar. 31, 1943	935	497	32	1,464	33,606.62
For year ending Mar. 31, 1944	1,302	731	32	2,065	46,545.75

The rate of bounty which was paid during the 1943-44 period was \$25.00, and on pups, animals under the age of three months, \$5.00.

The very noticeable increase in the number of wolves which was killed during the year was perhaps largely due to the more favourable weather conditions which prevailed during the winter.

Claims for the payment of wolf bounty numbering 1,511 and covering a total of 2,126 wolves were submitted to the Department. Of these claims twenty-nine (29) affecting forty-nine (49) animals were disallowed for various reasons principal among which were that the pelts submitted on examination proved not to be wolves and also that insufficient evidence was produced. At the end of the fiscal period seven applications in respect to twelve (12) additional wolves were in abeyance, and as indicated in the preceding statistical table bounty was paid during the year on a total of 2,065 wolves.

The following is a summary showing in detail the sources of origin and the varieties of wolves on which applications for bounty were submitted:—

# SUMMARY OF APPLLICATIONS FOR PAYMENT OF WOLF BOUNTIES

County	Timber	Brush	Pups	Total
Bruce	14	13		27
Carleton	2	1		3
Durham	0	1		1
Frontenac	15	19	7	41
Glengarry	0	1	1	1
Grey	0	2		2
Haldimand	0	1		1
Halton	0	1		1
Hastings	26	4		30
Huron	0	1		
Kent	0	3		1
Lambton	0	1		3
	-	7		7.
Lanark	9	0		9
Leeds	0	1	1	1
Lennox & Addington	12	2		14
Lincoln	0	1		1
Ontario	7	14		21
Norfolk	0	9		9
Northumberland	1	0		1
Peel	0	1		1
Peterborough	18	0		18
Prince Edward	0	5		5
Renfrew	53	5		58
Simcoe	14	9	6	29
Victoria	9	26		35
Welland	0	2		2
York	0	14		14
Total Counties	180	143	13	336
DISTRICTS				
Algoma	99	64	8	171
Cochrane	31	1		32
Haliburton	18			18
Kenora	263	112	1	375
Manitoulin	34	126	9	169
Muskoka	42	8	1	50
Nipissing	121	27	1	148
Parry Sound	69	9		78
Patricia	81	20		101
Rainy River	131	92	7	230
Sudbury	126	78	9	213
Temiskaming	17	1		18
Thunder Bay	120	67		187
Total Districts	1,152	605	33	1,790
Grand Total	1,332	748	46	2,126

Following the practice which was instituted on November 1st, 1942, such wolf pelts as were submitted to the Department in support of applications for the

payment of bounty were, following approval of the respective applications delivered to the Seamen's Fur Vest War Project for manufacture into garments for the use of members of the Naval Service and Merchant Marine, a branch of voluntary war service which was highly appreciated by those to whom such garments were made available.

From Departmental records it has been ascertained that farmers were responsible for applications in respect to 704 of these wolves; Indians and trappers in respect to 916; hunters, guides and rangers in respect to 225; and the remainder are assigned to others in miscellaneous occupations.

Forty-five per cent were taken in snares, twenty-five per cent in traps, twenty-four per cent were shot, three per cent poisoned. The remainder were killed as a result of accidents.

#### BEAR BOUNTY

The regulation which was originally provided in 1942 and which established conditions to govern the payment of a bounty on bears killed in certain sections was re-affirmed.

The conditions provided for the payment of a bounty of \$10.00 on any bear killed between April 15th and November 30th in Townships devoted to agriculture in certain Counties and Districts.

Some 313 applications for the payment of this bounty, involving 377 bears, were received for consideration. The bounty was paid on 363 bears, and 11 applications in respect to 14 bears were not approved.

It has been ascertained from records on file in the Department that 286 of these bear were shot, 28 were trapped and 6 snared.

The following table indicates the total number of bears killed in each of the Counties and Districts, and in respect of which applications for the payment of bounty were submitted:

County or District	Total
Algoma	. 18
Cochrane	. 68
Kenora	. 5
Manitoulin	. 5
Muskoka	. 5
Nipissing	. 27
Parry Sound	. 25
Rainy River	. 33
Sudbury	. 39
Thunder Bay	. 27
Temiskaming	. 50
Haliburton	. 10
Bruce	. 7
Frontenac	. 2
Hastings	. 20
Lennox & Addington	. 4
Peterborough	. 5
Renfrew	. 27
Motel	277

#### TOURIST OUTFITTERS

A continuation of war-time problems caused some further recession in the tourist industry but there was evidence of increased post-war planning. Thirty-eight (38) applications for permits to establish additional camps were received in the Department, of which fourteen (14) were granted, thirteen (13) were definitely refused, five (5) were tentatively refused for reconsideration after the war and six (6) are still in abeyance pending final decision.

With respect to the 615 licensed camps which were operated in 1942 only 519 licenses were renewed for operations in 1943. However 20 new or re-established tourist outfitters' camps were licensed to operate during the year which reduced the consequent decrease. A total of 539 such camps were licensed to operate in 1943, and these camps are located in Districts set forth in the following schedule:—

Algoma	76
Cochrane	7
Kenora	127
Manitoulin	42
Nipissing	75
Parry Sound	91
Patricia	1
Rainy River	30
Renfrew	12
Sudbury	51
Temiskaming	6
Thunder Bay	21
Total	539

#### GAME AND FISHERIES ACT

There were no amendments provided with respect to the Game and Fisheries Act which became effective during the year ending March 31st, 1944.

The only regulations which were provided and which are additional to the ones to which other references are contained in this report were.—

- (a) Providing an open season for the taking of black and grey squirrels, south of the French and Mattawa Rivers and Lake Nipissing, November 4th, 5th and 6th, 1943, with a bag limit of five (5) per day; and
- (b) Prohibiting the taking of minnows in excess of a total weight of forty (40) pounds from the waters of Lakes Simcoe and Couchiching during the period between October 1st, 1943 and March 31st, 1944.

#### **ENFORCEMENT**

Provisions of the Game and Fisheries Act and the Regulations which are established thereunder, as well as the Migratory Birds Convention Act and the Special Fishery Regulations for the Province of Ontario are administered within the jurisdiction of this Department, and for the enforcement of this Legislation and the various Regulations the Department maintains a regular staff of field service officers designated as Game and Fisheries Overseers. The services of these regular overseers are augmented by the appointment of additional seasonal overseers whose services are retained periodically for short periods, more patricularly during the spring fish spawning periods and in areas in which these extra men are required. Members of the Ontario Provincial Police Force also coperate with our officers to the end that better observance of these provisions may be secured.

In this connection it would be difficult to estimate the actual value to the Province as a whole of the voluntary efforts provided by the many hundreds of Deputy Game Wardens who are appointed annually, with authority to see that those with whom they might come in contact observe and obey these various provisions, and the services along educational and conservational lines which are available through the hundreds of local Game and Fish Protective Associations which have been organized and flourish throughout the Province. This co-operation in past years by sportsmen and organizations interested in promulgating in all concerned the desirability of maintaining undiminished as far as possible our wild life natural resources is an asset which cannot be computed in terms of monetary references and one which has been deeply appreciated by those to whom the administration of the Department of Game and Fisheries has been assigned. This co-operation in the work of enforcement and conservation has undoubtedly influenced a spirit of better law observance by those who hunt, fish and trap in this Province than could have been secured under conditions where such co-operation had not been available.

Enforcement officers in the performance of their duties did interrupt offenders on various occasions and in such cases the seizure of equipment being used in violation of provisions of the Act and regulations subsequently followed. During the year under review there were 1,201 cases in which such seizures were provided. Such seizures were the result of action provided by Game and Fisheries Overseers in 1080 cases, by Deputy Game Wardens in 24 cases, by Provincial Police Constables in 25 cases. In 66 cases the seizures were the result of co-operative action by Overseers, Deputy Game Wardens and Provincial Police, and in 6 cases by members of Municipal police forces, and in two of which they were assisted by Game and Fisheries Overseers.

The following is a summary of the articles which were seized in these actions:—

Live animals and birdsin	10	cases
Birds, game animals and meatin	147	cases
Fire-arms and ammunitionin	398	cases
Fishin	173	cases
Nets and fishing equipmentin	130	cases
Angling equipmentin	109	cases
Pelts and hidesin	247	cases
Traps and trapping equipmentin	188	cases
Canoes, rowboats and motor-boatsin	19	cases
Outboard motorsin	3	cases
Motor vehiclesin	8	cases
Poisonin	4	cases
Flashlights and Lanternsin	43	cases
Spearsin	48	cases
$Miscellaneous \ articles \in$	51	cases

A combination of articles seized in individual cases,—such as fire-arms and game, pelts and traps, fishing tackle and fish, etc., is responsible for the difference in the total of the above summary and the number of the actual cases in which seizure of articles was reported.

From the records is derived the following information with reference to the number and types of fire-arms which were seized, viz:—Shot-guns, single barrel and double barrel, 124; repeating shotguns, 24; automatic shotguns, 1; 410 gauge shotguns, 7; rifles, .22 calibre, 144; high-powered rifles, including .30, .300, .300, .30/.30, .32, .32/.20, .32/.40, .351, .38, .38/.55, .40, .44, .44/.40, 6.5MM,

7MM, and 57 calibres, 82; rifles of .25, .25/.20, and .25/.30 calibre, 4; revolvers 5; and air-guns, 18.

Details of confiscated pelts of fur-bearing animals are as follows:—

Beaver	304
Fisher	7
Fox	61
Marten	12
Mink	49
Muskrat	389
Otter	8
Raccoon	107
Skunk	2
Squirrel	124
Weasel	54
Wolf	5
Deer and moose hides	30

Included among the miscellaneous articles which were seized were 14 axes and hatchets, 2 hammers, 13 pack sacks and dunnage bags, 4 haversacks, 8 shovels, 8 duck decoys, 5 car batteries (used for the operation of artificial lights), 3 tents, 3 camp stoves, 3 fish containers and 7 ice chisels.

Charges were laid and prosecutions followed in 1012 cases in which violations of the Game and Fisheries Act and the various Regulations were involved. As a result of these charges 963 convictions were registered and varying penalties imposed. In 43 cases the charges were dismissed and in 6 cases the charges were withdrawn.

In connection with the convictions the charges were laid by Game and Fisheries Overseers in 922 cases, by Provincial Police in 32 cases, by joint action on the part of Overseers and Police in 8 cases, and by Municipal Police Officers in 1 case.

The charges were laid by Game and Fisheries Overseers in 42 cases and by Provincial Police Constables in 1 case in those instances in which such charges were dismissed at the hearing by Magistrates.

In the actions in which the charges were withdrawn the informations had been laid by Overseers in 5 cases and by joint action between Overseers and Provincial Constables in 1 case.

#### FISH CULTURE BRANCH

During the year, twenty-seven hatcheries and rearing stations were operated. successfully. No new plants were established, in keeping with the restrictions imposed by wartime conditions.

For the culture of game-fish the development of rearing stations or a combination of hatchery and rearing station instead of a hatchery only, is in keeping with progressive developments in this field. A hatchery may be defined as a building in which is housed all the necessary equipment for hatching and rearing of fish to the fry or advanced fingerling stages. A rearing station is an extension of this arrangement; large tanks, raceways or ponds being provided for accommodating fish from the underyearling to yearling or older stages.

Of the twenty-seven stations, eleven are provided with hatcheries only, four with ponds only, one with raceways only, three with a combination of hatchery and ponds, eight with a combination of hatchery, raceways and ponds.

Speckled trout are cultured at fourteen stations, rainbow trout at two, brown trout at six, Kamloops trout at two, lake trout at nine, small-mouthed black bass at seven, large-mouthed black bass at one, maskinonge at one, perch at one, blue pickerel at one, yellow pickerel at ten, white-fish at ten, herring at three and minnows at four.

There are facilities at three stations for retaining a selected stock of adult speckled trout for breeding purposes. A breeding stock of brown, rainbow and Kamloops trout are provided for at one station.

Practically all the speckled trout, brown trout and Kamloops trout distriputed to suitable and publicly fished waters are either yearlings or older fish.

Black bass, maskinonge, rainbow trout and lake trout, are, generally speaking, distributed in the fry or fingerling stages. Culture of lake trout to the yearling stage has been developed, successfuly, at certain stations, and when additional pond space is available, expansion of the culture of lake trout in this direction may be undertaken.

White fish, herring, perch, blue pickerel and yellow pickerel are distributed in the fry stage.

#### THE CULTURE AND DISTRIBUTION OF FISH

#### Speckled Trout:

Approximately 3,084,000 speckled trout yearlings and 10,300 adults were planted in suitable waters during the year. The distribution of yearlings was approximately 6 per cent greater than that of the preceding year.

#### **Brown Trout:**

The Department has been careful to avoid planting brown trout in streams which still continue to support native speckled trout satisfactorily. Distribution of browns is confined to those portions of streams of southern Ontario where there is little if any likelihood of re-establishing native trout on a practical basis and where speckled trout fishing is unimportant with the possible exception that in some cases small feeder creeks may still continue to support a limited number of speckled trout.

Some good results have followed the introduction of browns, but it is necessary to obtain more information on the success of many individual plantings before definite conclusions may be drawn.

A total of 314,000 browns were planted, of which yearlings numbered approximately 96 per cent.

#### Rainbow Trout:

#### (a) Steelhead Trout:

The distribution of rainbow trout fingerlings was  $34\,\%$  lower and yearlings  $20\,\%$  greater than that of the preceding year.

#### (b) Kamloops Trout:

The culture of this variety of rainbow trout was disappointing. The egg collection from the breeding fish in the Normandale ponds has decreased. Whether conditions of the environment, or methods of spawning are responsible for evident sterility is problematical. A small supply of eggs was obtained from Kamloops B.C., and the product of these is being cultured at Chatsworth Trout Rearing Station to determine whether water supply and other conditions are controlling factors in successful culture.

The Kamloops trout is a magnificent game fish and the habitat conditions

required by speckled trout are reported to be somewhat similar for Kamloops trout. Some good reports of successful planting have been received, and when the necessary personnel is available a closer check on the distribution already made will be advantageous.

#### Lake Trout:

The collection of lake trout spawn in the fall of 1942 was 50% lower than that of the preceding year, resulting in a decrease in the distribution of fingerlings in approximately the same proportion. Prevailing stormy weather prevented our spawning crews from carrying out effective operations.

When the take of fish is reduced the spawn collection is reduced in about the same proportion. Thus, the distribution of fry and fingerlings is adversely affected.

Fair weather, prevailed during the lake trout spawning season of 1943, but the take of fish with certain exceptions, showed evident signs of decline; the effects of this reduced take were reflected in the total collection of spawn, and thus in the total distribution of fry and fingerlings. If the take of lake trout in the Great Lakes continues to decrease, a protective closed season may be necessary.

The progress made in the culture and distribution of yearling lake trout was promising:

1942 — 10,700 yearlings 1943 — 60,900 yearlings

#### Whitefish:

The decrease in the collection of whitefish eggs in 1942 was approximately 28,000,000. This decrease was not serious or confined to one spawning area; some areas showed slight or substantial increases. The weather during the spawning period was not good for operations of this nature.

Access to whitefish spawning grounds in the eastern end of lake Erie has been greatly curtailed for reasons beyond control during wartime.

The total number of whitefish planted in 1943 was  $6\,\%$  less than that of the preceding year.

#### Herring:

The collections of herring spawn were carried out on the Bay of Quinte, Lake Ontario, and the west end of Lake Erie. Only a very limited amount was taken at the latter point. As a result of these collections the distribution of herring fry showed a favourable increase of approximately 33 per cent in excess of that of the preceding year.

#### Yellow Pickerel:

There was a 12.6 per cent decrease in the distribution of yellow pickerel as compared with that of 1942.

The chief spawntaking areas where decreases occurred were, Hay Bay, (Lennox-Addington), Echo Lake (Algoma) and Whitefish Falls, (Bay of Islands, North Channel). At the other spawntaking areas increases or a very slight change in yield was evident.

In the Hay Bay area the ice was slow in going out; the fish swam under the ice into the Bay, and spawned before the nets were set. This happens during a prevailing west wind; with an east wind the condition is reversed, and there is no difficulty in getting the equipment in place before the spawning run. In Echo Lake many pickerel moved up under the ice before the nets could be set; this caused a reduced collection of spawn. In 1941 and 1942 pickerel spawn was collected suc-

cessfully, in Callander Bay, Lake Nipissing for the Little Current Hatchery, but in 1943, operations were discontinued there, and centred at Whitefish Falls, Bay of Islands, North Channel, where the take of spawning pickerel was limited. This accounted to some extent at least for the reduced plant of pickerel in 1943.

#### Small-mouthed Black Bass:

The number of bass fry planted was substantially the same as in the preceding year, but the number of fingerlings was considerably reduced.

#### Large-mouthed Black Bass:

The number of large-mouthed black bass propagated and distributed was greatly in excess of that of the preceding year. The percentage increase in the distribution of fry was 174 per cent and of fingerings 102 per cent.

#### Perch:

The take of perch spawn in Lake Erie off Kingsville, is subject to wide variation. Only 19,000,000 fry were distributed in 1943, whereas in 1939 three to four times that number were distributed.

#### Maskinonge:

The distribution of maskinonge fingerlings was 205 per cent higher than that of the preceding year, whereas the distribution of fry was 26 per cent lower.

#### CLOSED WATERS

The closure of selected natural water areas to all fishing during alternate years, for an extended period of time, or permanently, is one of the practical methods for conserving the breeding stock. The fish thrive in suitable areas under suitable conditions without interference and spread to other parts of the same lake. There is thus set up in each body of water a permanent breeding stock, and there is being taken from it, only the natural increase each year.

Ten out of fourteen of the following waters were closed on the basis of biological survey, and the remainder were reported upon favourably by the Department's field officers.

When personnel is available, more intensive follow-up studies will be made concerning the effectiveness of closure in maintaining the fisheries on a proper basis.

In addition to the waters already closed for the natural protection and propagation of fish, the following were closed during the year, April 1, 1943 to March 31, 1944:

#### BLACK DUCK LAKE (Deer Bay)

Township of Harvey, County of Peterborough.

#### CHEMONG LAKE (Portion located as follows):

Lots 1, 2 and 3, Concession IV, Township of Smith, County of Peterborough. Lot 23, Concession IV, Township of Emily, County of Victoria.

Lots 22 and 23, Concession V, Township of Emily, County of Victoria.

#### CLEAR LAKE (Gravel Lake)

Township of O'Brien, District of Cochrane.

#### DEEP BAY (Sparrow Lake)

Township of Matchedash, County of Simcoe.

#### DRYDEN CREEK

Townships of Dryden and Cleland, District of Sudbury.

#### GEORGIAN BAY (Portion located as follows):

- (a) An area approximately 1 mile square lying west of Electric Island;
- (b) An area approximately 1 mile square lying west of Lot 51, Concession VIII, township of Harrison, District of Parry Sound;
- (c) An area lying east of and extending approximately 2 miles along the shore line opposite concessions XIII and XIV, Township of Harrison, District of Parry Sound.

#### GOOSE LAKE

Townships of Fenelon and Somerville, County of Victoria.

#### GOOSE LAKE (Scugog River)

Township of Fenelon, County of Victoria.

#### LITTLE MUD LAKE (Chemong Lake)

Township of Smith, County of Peterborough.

#### MOOSE LAKE

Unorganized territory west of the Township of Smellie, District of Kenora.

#### OPINICON LAKE (part)

Lot 16, Concession 6, and lots 15 and 16, Concession 7, Township of Crosby S, County of Leeds.

#### SEARIGHT'S BAY (North River)

Township of Belmont, County of Peterborough.

#### TAYLOR'S BAY and MUNN'S BAY (Belmont Lake)

Township of Belmont, County of Peterborough.

#### WHITE PINE LAKE

Township of Gamble, District of Timiskaming.

#### BIOLOGICAL SURVEYS

Biological studies during the year were confined almost entirely to fish culture in the various hatcheries and rearing stations throughout the province.

The Ontario Fisheries Research Laboratory of the Department of Biology, University of Toronto, continued the studies of the fish resources of Algonquin Park restricting the work of the most essential features in compliance with the requirements imposed by wartime conditions.

The Laboratory has continued to receive financial assistance from the Ontario Department of Game and Fisheries, the National Committee on Fish Culture and the University of Toronto.

The Ontario Department of Game and Fisheries have co-operated in the stocking programme, by making available whatever stocks of speckled trout and lake trout were required from time to time.

"In the first years of the study of Park lakes it was learned that some of the lakes gave much better returns than others to the anglers and a definite programme for maintaining and improving the fishing was undertaken. These measures of conservation consisted in stocking certain lakes and streams with speckled trout fry and fingerlings, transferring lake trout from in-Park lakes to those more heavily fished, closing certain lakes in alternate years, and introducing food fish such as perch and lake herring for bass and trout into those lakes where it was found that the food supply was sparse.

#### CREEL CENSUS

It is necessary to obtain some measure of the fish production from the various lakes from year to year in order to evaluate the various conservation being applied. The best. method of obtaining this of the fishing for a large number of lakes and streams from year to year is through the creel census carried out by active cooperation of the anglers. The great importance of the Algonquin Park Creel Census lies in its value as being a measure of both the fish available to the anglers and the improvement or decline of fishing in the various lakes and rivers from year to year. For this puropse the Park has been divided into three areas: Algonquin Park South, Algonquin Park North, Opeongo and adjacent lakes. The creel census of Algonquin Park North was carried out in 1943 for the first time.

#### STOCKING

The creel census has already shown us that stockings of some lakes and rivers with fish has improved the fishing while in other lakes the planting has given little or no return so it is now possible to emphasize the stocking of those waters which promise the most satisfactory returns. In 1943, 11.880 speckled trout were planted in twenty-six lakes in Algonquin Park North and 49,000 speckled trout were planted in thirty-six lakes in Algonquin Park South. The stocking with fish in 1944 will be carried out with emphasis upon those lakes which give the best promise of returns and upon some additional lakes which were studied during 1943, as well as some of the rivers which are being studied for the purpose of carrying out stream improvements to increase the production of trout.

#### LAKE CLOSURE

It has also been found that alternate annual closure of lakes is having a good effect on increasing both the size and numbers of fish available to anglers in many lakes and this practice is being extended to protect and improve the game fish in the smaller Park Lakes where the creel census indicated a dangerous decrease in the game fish available.

#### LAKE TROUT STUDIES

The work on the food and growth of lake trout has been continued and it has been found by Dr. Fry that lake trout reach a catchable size at an older age than speckled trout and as a result of this it takes a longer period for them to respond to conservation measures. He found also, that the lake trout in different lakes grow at very different rates but from this information it is possible to prepare a table giving the approximate average relations of age and size of lake trout.

#### Approximate Age-Length-Weight Relations of Lake Trout.

Age	Length	Weight
Yrs.	Inches	Pounds
1	4	•••••
2	7	• • • • • • • • • • • • • • • • • • • •
3	9	1.0
4	12	1.2
5	14	1.3
6	16	1.5
7	18	2.4
8	20	3.0
9	22	3:5
	23	
11	24	5.0
	26	8.0
	28	10.0

Work was continued on the study of insect population of streams as fish food and the studies of the temperature and oxygen conditions in lakes as related to the movements of fish. Experiments were continued on the rate of digestion of food by fish to determine the amount of food used by fishes during a year as the basis for measuring the productive capacity of game fish in the various Park lakes."

The work of the laboratory has been reported, annually, in several publications.

#### **ACKNOWLEDGEMENTS**

In conclusion I desire to express general satisfaction with the services of respective members of the Departmental staff, both at headquarters and in the field. They were conscientious in the performance of their duties and courteous in their contacts with the general public.

The co-operation of the Ontario Federation of Anglers and Hunters, as well as the local Fish and Game Protective Associations and the Northern Ontario Tourist Trade Association has been provided at all times and has resulted in a better degree of law observance in the interests of protecting the fish and game resources of Ontario and has resulted in easing the burdens of administration.

Assistance has been forthcoming from many other organizations and individuals too numerous to specify in detail, and particularly from Municipal Councils and Controlling Organizations in the Townships incorporated in the scheme of Regulated Game Preserve Areas and which in large measure has been responsible for the success which this scheme has presently attained.

All of which is respectfully submitted.

I am, Sir,

Your obedient servant,

D. J. TAYLOR.

Deputy Minister of Game and Fisheries

# APPENDIX No. 1

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1, 1943, to March 31, 1944.

LARGE-MOUTHED BLACI	T DACC	Russell	400
	A DASS	Simcoe	27.000
FRY	25 000	Sudbury	74,000
Bruce	35,000 $40,000$	Thunder Bay	13,400
Huron	30,000	Timiskaming	3,200
Muskoka Norfolk	2,500	Victoria	14,500
Oxford	20,000	Welland	2,000
Parry Sound	370,000	Wellington	3,000
•		York	1,500
Perth	10,000	WEADI INGG AND AD	
FINGERLINGS		YEARLINGS AND AD	
Lincoln	2,000	Brant	162
Muskoka	12,500	Hastings	85
Simcoe	9,000	Manitoulin	380
Victoria	12,000	Norfolk Parry Sound	130 377
Welland	2,000	Peterborough	135
Wellington	1,000	Prince Edward	100
1		Time Edward	100
YEARLINGS AND ADU		MASKINONGE	
Brant	195	$\mathbf{F}\mathbf{R}\mathbf{Y}$	
Norfolk	95	Hastings	75,000
SMALL-MOUTED BLACK	RASS	Lennox-Addington	15,000
FRY	DASS	Muskoka	25,000
	45 000	Northumberland	60,000
Bruce Elgin	45,000	Peterborough	645,000
Grey	$75,000 \\ 5,000$	Simcoe	50,000
Hastings	6,000	Victoria	295,000
Huron	20,000	FINGERLINGS	
Manitoulin	195,000		0.00
Muskoka	145,000	Hastings	800
Nipissing	120,000	Nipissing Peterborough	300
Norfolk	25,000	Prince Edward	300 450
Parry Sound	510,000	Victoria	300
Peterborough	50,000	V 101011a	300
Prince Edward	6,000	PERCH	
Sudbury	165,000	Great Lakes	19,000,000
Waterloo	100,000	DICKEDEL	
Great Lakes	45,000	PICKEREL	
FINGERLINGS		EYED EGGS	
	40.050	Bruce	650,000
Algoma Brant	62,250	Cochrane	3,150,000
Bruce	1,000	Grey	350,000
Carleton	$\begin{array}{c} 950 \\ 400 \end{array}$	Muskoka	1,500,000
Cochrane	1,600	Nipissing	8,550,000
Dundas	1,000	Parry Sound	4,150,000
Elgin	2,000	Simcoe Sudbury	2,900,000 $1,500,000$
Frontenac	28,500	Timiskaming	3,500,000
Haldimand	2,000	Victoria	700,000
Haliburton	12,000	V ACCOTAGE	.00,000
Halton	1,000	$\mathbf{FRY}$	
Hastings	2,100	Algoma	7,850,000
Lanark	13,700	Carleton	2,000,000
Leeds	15,500	Cochrane	1,950,000
Lennox & Addington	9,000	Dundas	500,000
Manitoulin	36,500	Frontenac	7,450,000
Middlesex	2,000	Grenville	2,000,000
Muskoka	13,000	Haliburton	1,600,000
Nipissing	22,200	Hastings	4,700,000
Parry Sound Peterborough	11,500	Kenora	74,475,000
Renfrew	10,000	Kent	1,000,000 $7,000,000$
TOUTIEW	5,500	Lanark	1,000,000

# SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1, 1943, to March 31, 1944.

PICKEREL—Contin	ued	FINGERLINGS	
Leeds	1,600,000	Algoma	163,000
Lennox-Addington	2,450,000	Cochrane	
	3,450,000		21,000
Manitoulin		Frontenac	95,000
Muskoka	3,000,000	Haliburton	200,000
Nipissing	1,000,000	Hastings	59,500
Northumberland	2,550,000	Kenora	93,300
Parry Sound	<b>6,90</b> 0,000	Lanark	5,000
Peterborough	13,150,000	Leeds	20,000
Prince Edward	1,000,000	Lennox-Addington	30,000
Rainy River	31,500,000	Manitoulin	20,000
Renfrew	7,200,000	Muskoka	370,000
Russell	500,000	Nipissing	88,000
S'udbury	5,750,000	Parry Sound	215.000
Thunder Bay	500,000	Peterborough	39,000
Victoria	2,600,000	Rainy River	87,000
Great Lakes	43,250,000	Renfrew	
Great Lakes	43,230,000		77,000
BLUE PICKEREI		Sudbury	83,000
		Timiskaming	61,000
Lake Erie	150,000	Thunder Bay	90,000
BROWN TROUT		York	30,000
		Great Lakes	6,202,000
EYED EGGS			
Exchange	10,000	YEARLINGS	0.400
FINGERLINGS		Bruce	2,400
		Grey	2,600
Sale (Progagation		Nipissing	44,000
purposes)	1,000	Timiskaming	10,000
YEARLINGS		York	1,860
Brant	13,600		
Bruce	12,800	RAINBOW TROUT	
Durham	13,450	FINGERLINGS	
Elgin		Algoma	63.242
	29,300	Manitoulin	5,000
Grey	35,700		5,000
Haldimand	1,000	Sudbury	5,00 <del>0</del>
Halton	19,800	YEARLINGS	
Hastings	7,000	Dufferin	6,000
Huron	6,600	Elgin	500
Lambton	1,000	Haliburton	3,600
Lennox-Addington	1,400		1,800
Middlesex	6,600	Simcoe	
Norfolk	29,500	Waterloo	1,000
Northumberland	8,400	Miscellaneous Sale,	
Ontario	4,200	(Propagation purposes)	2,550
Oxford	16,800	TO A MET O O DO TO TO O TOTAL	
Parry Sound	1,200	KAMLOOPS TROUT	
Peel	13,200	YEARLINGS	
Perth	3,600	Grey	500
Peterborough	12,285	Muskoka	3,500
Renfrew		Parry Sound	1,000
Simcoe	4,200		
	16,200	SPECKLED TROUT	
Waterloo	10,800		
		$\mathbf{F}\mathbf{R}\mathbf{Y}$	
Welland	7,400		5.000
Wellington	$\begin{matrix} 7,400 \\ 17,100 \end{matrix}$	Timiskaming	5,000
Wellington Wentworth	7,400 17,100 5,400		5,000
Wellington Wentworth York	$\begin{matrix} 7,400 \\ 17,100 \end{matrix}$	TimiskamingFINGERLINGS	·
Wellington	7,400 17,100 5,400	TimiskamingFINGERLINGS Muskoka	8,000
Wellington Wentworth York	7,400 17,100 5,400	TimiskamingFINGERLINGS Muskoka Thunder Bay	·
Wellington	7,400 17,100 5,400 3,300	Timiskaming	8,000
Wellington	7,400 17,100 5,400 3,300	TimiskamingFINGERLINGS Muskoka Thunder Bay	8,000
Wellington Wentworth York Miscellaneous, Sale (Propagation purposes)  LAKE TROUT EYED EGGS	7,400 17,100 5,400 3,300	Timiskaming	8,000
Wellington Wentworth York Miscellaneous, Sale (Propagation purposes)  LAKE TROUT EYED EGGS	7,400 17,100 5,400 3,300 1,500	Timiskaming	8,000 400 1,000
Wellington Wentworth York Miscellaneous, Sale (Propagation purposes)  LAKE TROUT EYED EGGS Exchange	7,400 17,100 5,400 3,300	Timiskaming	8,000 400 1,000 449,000
Wellington Wentworth York Miscellaneous, Sale (Propagation purposes)  LAKE TROUT EYED EGGS Exchange FRY	7,400 17,100 5,400 3,300 1,500	Timiskaming  FINGERLINGS  Muskoka  Thunder Bay  Miscellaneous (Sale, Proagation urposes  YEARLINGS  Algoma  Bruce	8,000 400 1,000 449,000 43,800
Wellington Wentworth York Miscellaneous, Sale (Propagation purposes)  LAKE TROUT EYED EGGS Exchange	7,400 17,100 5,400 3,300 1,500	Timiskaming	8,000 400 1,000 449,000

SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1, 1943, to March 31, 1944.

SPECKLED TROUT—Cor	ntinued	Victoria 3,100					
Durham	21,750	Waterloo	11,200				
Elgin	8,400	Wellington	20,400				
Frontenac	47,200	York	2,750				
Grey	91,763	Miscellaneous (Sale, Pro-					
Haliburton	31,100	pagation purposes)	13,650				
Halton	1,200						
Hastings	116,950	ADULTS					
Huron	11,300	Algoma	8,000				
Kenora	4,000	Thunder Bay	1,392				
Lanark	17,800	Timiskaming	900				
Lennox-Addington	36,200						
Lincoln	1,800	WHITEFISH					
Manitoulin	128,100	EYED EGGS					
Middlesex	600	Exchange	400,000				
Muskoka	168,600	Kenora	500,000				
Nipissing	239,440	Thunder Bay	1,000,000				
Norfolk	24,800		,				
Northumberland	42,200	FRY					
Ontario	2,600	Kenora					
Oxford	1,500	Manitoulin					
Parry Sound	158,000	Rainy River					
Peel	14,300	Thunder Bay					
Perth	600	Great Lakes2	85,782,500				
Peterborough	56,580	HERRING					
Renfrew	99,300	HERRING					
Simcoe	27,500	FRY					
Sudbury	458,700	Great Lakes					
Thunder Bay	352,700	Lake Erie					
Timiskaming	147,800	Lake Ontario	21,500,000				

APPENDIX No. 2
DISTRIBUTION OF FISH ACCORDING TO SPECIES—1939 TO 1943, INCLUSIVE

	1939	1940	1941	1942	1943
Large-mouthed Black Bass					
Fry Fingerlings Yearlings & Adults	1,890 497	230,000 5,500 152	110,000 17,700 109	185,000 19,100 290	507,500 38,500 290
Small-mouthed Black Bass					
Fry Fingerlings Yearlings & Adults	1,386,000 226,325 7,739	2,512,500 449,154 1,671	1,911,500 691,925 2,254	1,535,500 718,259 2,355	1,512,000 392,700 1,369
Maskinonge					
Eyed Eggs Fry Fingerlings	120,000 2,675,000 1,300	2,345,000 2,333	2,100,000 1,494	1,575,000 705	1,165,000 2,150
Perch—Fry	72,360.000	13,000,000	31,600,000	24,175,000	19,000,000
Pickerel (Yellow)					
Eyed Eggs	7,000,000 327,500,000	2,000,000 393,887,000 100	4,500,000 223,490,000	17,250,000 284,510,000	26,950,000 236,925,000
Pickerel (Blue)					
Fry	***************************************	••••••		•••••	150,000
Brown Trout Eyed Eggs					10,000
Fingerlings Yearlings	29,954 375,070	182,725 252,000	60,000 346,188	23,000 <b>359,27</b> 5	1,000 303,335
Lake Trout		555 000			
Eyed Eggs Fry Fingerlings Yearlings	1,845,850 7,236,900 9,964,400	575,000 7,564,000 <b>7,312.10</b> 0	800,000 913,000 18,066,400	400,000 367,000 15,429,600 10,680	200,000 125,000 8,048,800 60,860
Atlantic Salmon					
Fry Fingerlings Yearlings		46,385	***************************************	••••••	
Rainbow Trout					
Fingerlings	109,635 23,145 1,009	298,420 19,724	164,000 11,750	111,000 12,900	73,242 15,450
Kamloops Trout					
Fingerlings Yearlings	105,000	26,500	88,150 25,000	<b>24</b> ,800	5,000
Speckled Trout Eyed Eggs				500F	5,000F
Fingerlings Yearlings Adults	337,000 2,976,559 6,315	611,375 3,278,114 7,150	394,000 3,060,174 16,732	631,775 2,918,513 7,527	9,400 3,083,983 10,292
Whitefish					
Eyed Eggs	326,657,000	403,339,000	375,960,500	250,000 394,802,000	1,900,000 369,777,500
Herring					
Eyed Eggs Fry	38,550,000	49,050,000	8,630,000	18,430,000	24,560,000
Minnows				500	
Miscellaneous	41	***************************************			
TOTALS	799,496,629	886,995,903	672,960,876	763,750,279	694,833,371
F—fry					

# APPENDIX

## GAME AND FISHERIES

Statistics of the Fishing Industry in the Public Waters

**EQUIP** 

District		Tugs				asoline unches	Sail Row	and Boats	Gill Nets		
		No.	Tons	Value \$	No.	Value \$	No.	Value \$	Yards	Value \$	
Northern Inland Waters Lake Superior North Channel Georgian Bay Lake Huron Lake St. Clair Lake Erie Lake Ontario Southern Inland Waters	722  325 102 406  276  112 885  573  209	5  11  3  14  11  46	35  334 41 331  239 	15,700  64,800 20,800 99,421  87,000 	123 91 51 179 210	90, 195 57,485 20,600 123,580 77,250 15,570 231,750 121,180 6,256	300 76 37 109 24 70 123 145 120	9,060 6,102	908,680 277,120 1,385,730 1,288,558 2,482,151 1,290,350	120,019 31,042 170,662 171,797 340,681	
Totals	3610	92	1,758	\$582,021	1010	\$743,866	1004	\$55,014	8,235,419	1,060,864	

# APPENDIX

# QUANTITIES OF

District	Herring	Whitefish	Trout	Pike	Pickerel (Blue)	Pickerel (Dore)
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
Northern Inland Waters Lake Superior North Channel Georgian Bay Lake Huron Lake St. Clair Lake Erie Lake Ontario Southern Inland Waters	8,949 1,290,358 45,929 167,515 328,558 55,684 857,240	1,481,372	1,323,022   25,508   1,066,463   517,399	888,882 22,402 82,159 33,905 674 13,838 31,807 64,383 1,812	9,614,034 38,228	1,503,187 187,709 40,970 68,547 167,134 48,348 453,425 41,435 1,278
Totals	2,754,233	4,186,031	3,237,130	1,139,862	9,660,949	2,512,033
Values	258,673.49	1,136,854.02	853,091.97	84,548.62	1,256,932.60	423,112.45

No. 3

# DEPARTMENT, ONTARIO

of Ontario, for the year ending December 31st, 1943

## MENT

Seine Nets		ets	Poun	d Nets	Hoop Nets		Dip Roll		Night	Lines	Sı	ears		eezers and Ice ouses		rs and harves	Total Value
No.	Yards	Value \$	No.	Value \$	No.	Value \$	No.	Value \$	No. Hooks	Value \$	No.	Value \$	No.	Value \$	No.	Value \$	\$
4 4 19 38 8 36	3,800 10,350 975 4,965		43 35 60 87 137	16,700 16,550 65,300 59,600 18,900 273,700	23	17,495		2 43 852	2,650 12,800 3,300 4,200 2,100 450 4,500	385 76			130  56  24  61  54  16  112  31  13	31,760 26,865 6,425 18,260 21,700 5,100 175,750 8,425 3,440	52 19 57 20 12 92 22	13,135 12,832 6,275 31,876 5,885 2,875 40,760 6,400 1,000	272,586 303,401 103,613 518,183 424,992 50,000 1,375,984 305,283 33,432
109	21,080	19,397	919	470,110	983	31,989	29	938	30,000	4,112			497	297,725	  387	121,038	3,387,074

# No. 4

## FISH TAKEN

	Sturgeon	Eels	Perch	Tullibee	Catfish	Carp	Mixed Coarse	Caviare	Total	Value
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	\$ cts.
	95,944 2,415 2,766 487 3,067 9,203 12,433 623 7,998	34,655 2,275	8,912 1,314 22,974 2,631 354,868 35,195 711,276 195,908 13,058	48,171 24,837 68,823 246,912	27,035 101 3,009 19,252 77,501 63,225 145,434 89,572	264 47 3,030 23,891 7,084 76,879 315,654 201,182 128,035	131,626	880 27 132 173 477 49 34	4,961,002 3,347,286 572,021 2,010,041 1,836,404 486,573 14,483,233 2,281,078 617,699	511,116.89 59,562.32 485,283.43 361,575.32 57,081.92 2,131,838.99 358,009.75
1	134,936	36,930	1,346,136	609,386	425,129	756,066	3,794,744	1,772	30,595,337	
	73,482.22	1,892.00	179,632.68	109,086.92	59,511.99	47,532.24	216,424.98	2,878.64		4,703,654.82

 ${\bf APPENDIX\ No.\ 5}$  Comparative statement of the yield of the fisheries of ontario

Kind	1942 Pounds	1943 Pounds	Increase Pounds	Decrease Pounds
Herring	2,975,406	2,754,233		221,173
Whitefish	5,434,364	4,186,031		1,248,333
Trout	3,845,311	3,237,130		608,181
Pike	1,158,771	1,139,862		18,909
Pickerel (Blue)	4,438,098	9,660,949	5,222,851	
Pickerel (Dore)	2,269,952	2,512,033	242,081	
Sturgeon	88,483	134,936	46,453	
Eels	18,578	36,930	18,352	
Perch	1,565,444	1,346,136		219,308
Tullibee	435,859	609,386	173,527	
Catfish	315,646	425,129	109,483	
Carp	841,594	756,066		85,528
Mixed and Coarse	2,990,624	3,794,744	804,120	
Cavaire	2,637	1,772		865
	26,380,767	30,595,337	6,616,867	2,402,297
Net Increase			4,214,570	

# Thirty-Eighth Annual Report

OF THE

# Game and Fisheries Department

1944 - 1945

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL No. 9, 1946



TORONTO

Printed and published by T.E. Bowman, Printer to the King's Most Excellent Majesty 1946

# TO THE HONOURABLE ALBERT MATTHEWS, Lieutenant-Governor of the Province of Ontario.

#### MAY IT PLEASE YOUR YOUR HONOUR:

I have the honour to submit herewith for the information of Your Honour and the Legislative Assembly, the Thirty-Eighth Annual Report of the Game and Fisheries Department of this Province, for the year ending March 31st, 1945.

I have the honour to be,

Your Honour's most obedient servant,

G. H. DUNBAR,
Minister in Charge,
Department of Game and Fisheries.

TORONTO 2, March 26th, 1946.

#### THIRTY-EIGHTH ANNUAL REPORT

OF THE

# Department of Game and Fisheries of Ontario

TO: THE HONOURABLE G. H. DUNBAR,

Minister in Charge,

Department of Game and Fisheries.

SIR:

I have the honour to submit to you herewith the Thirty-Eighth Annual Report of the Department of Game and Fisheries, in which is contained information with reference to the various Departmental services, as well as condensed statistics and comparative tables for the fiscal year ended March 31st, 1945, and other information which will probably be of interest.

#### INTRODUCTORY

For several years, in compiling the Annual Report, it has been found necessary to refer to the fact that war and wartime economy are still the most important factors in our national life, and the period under review is no exception; but as the year closes it is quite apparent that the backbone of enemy resistance has been broken, and hopes are high that the end is not far distant, and perhaps in sight.

In reviewing the wild-life situation and administrative activities of the Department during the year, it is desirable and necessary to point out that while there has been but little change in the former, the latter has been carried on under the handicap of prevailing economic conditions. Despite this fact, however, the conservation policies of the Department have been maintained to a very satisfactory degree, and the general situation has not been allowed to deteriorate.

The work of conserving the wild-life natural resources of the Province is complex and perhaps difficult, involving as it does many factors actually not within the scope of Departmental authority, and which have a direct bearing on conditions relative to food, habitat and environment, all of which play a very important part in the continuation and development of the wild-life resources. It is pertinent to add that these governing factors, such as soil, reforestation, water control, and similar problems are receiving a great deal of consideration and attention by various interested public spirited organizations, as well as by the responsible Departments of Government. Every progressive step which is taken to improve deficiencies with a view to restoring the previous natural conditions which existed will be reflected in increased production as well as in the development of wild-life.

The economic and recreational value of wild-life has been emphasized on more than one occasion and in previous reports, but it may be repeated that these values have assumed new and increasing importance during the recent years of conflict. Fishing and hunting have continued to provide clean, wholesome and healthful recreation for an ever growing number of people, included among whom are thousands of war-workers, who because of the strenuous nature of their employment and services require relaxation of the type to be found in the outdoor environment of field and stream, and while the direct contribution made by wild-life to the war effort may not be immediately obvious, it is nevertheless of great signific-

ance. It is not to be assumed that food is the primary objective of those who enjoy fishing and hunting, yet it is a fact that the fish and game taken by the angler and hunter have made a substantial addition to the food supply of the nation as a whole. Huge quantities of game fish were taken by resident and non-resident anglers during the year, while hunters bagged a correspondingly large total of all kinds of game. Every pound of this personally secured fish and meat served to release an equal amount of food for shipment overseas where the demand for such was, and still is, extremely urgent. Commenting on this fact the Director of the U.S. Fish and Wild-life Service, in his annual report to the U.S. Secretary of the Interior states: "Game (in the United States) is estimated to replace annually enough meat to feed an army of 5,000,000 for 77 days." The amount of game and fish taken annually in Ontario would be proportionately large, therefore it provides a considerable saving in the use of our domestic food supply.

Throughout the year the Department has been conscious of the fact that, even during the stress of war, recreation in the outdoors such as wild-life provides is an essential to health and morale, and because of this reason has continued its various activities designed to improve conditions, maintain and develop the resources, and protect them from unnecessary waste or extravagant use. In line with this work, the value and importance of conservation have been continually emphasized, and it is pleasing to report that public co-operation has been very evident. These various activities are set forth in detail herein.

## FINANCIAL

The following summary of the revenue collected by the Department of Game and Fisheries during the fiscal year covered by this report indicates in detail the various sources from which such revenue was derived, as well as the amounts collected in each case.

#### REVENUE FOR THE FISCAL YEAR ENDING MARCH 31st, 1945.

#### GAME-

Licenses—	
Trapping	\$ 53,132.90
Non-resident Hunting	115,590.00
Deer	117,004.70
Moose	4,812.50
Gun	79,389.64
Dog	7,823.65
Fur Dealers	30,652.00
Fur Farmers	6,266.00
Tanners	160.00
Cold Storage	185.00
	 3415,016.39
Royalty	194,429.40

\$609,445.79

#### FISHERIES-

			_

Fishing (Commercial) ...... \$ 87,253.00

Angling	412,073.30	
	\$499,326.30	
Royalty	12,565.61	
		\$511,891.91
GENERAL—		
Licenses—		di.
Tourist Camps	\$ 6,510.00	g .
Guides	7,432.00	
	\$13,942.00	
Fines	24,828.82	
Costs collected (Enforcement of Act)	786.89	
Sales — Confiscated articles, etc	26,372.27	
Rent	3,335.00	
Commission retained by Prov. on sale of licenses	2,132.72	
Miscellaneous	298.32	
	***************************************	\$71,696.02
Net Ordinary Revenue		\$1,193,033.72

The total revenue derived from our operations, viz. \$1,193,033.72 is the largest collected in any fiscal year to date, and exceeded by approximately \$10,000.00 the largest previous total, i.e. the sum of \$1,183,269.29 received three years ago, in 1941-42. It was more by \$217,961.12 than the revenue collected in the previous year, 1943-44.

Increased collections were recorded in practically every instance and the only noticeable decrease was in the revenue received from the sale of commercial fishing licenses, which was approximately \$4,000.00 less than the revenue derived from the same source in the previous fiscal year. The most important and greatest increase in revenue, as compared with that of the previous year, was in the fees from the sale of non-resident angling and hunting licenses. The amount received in 1943-44 from the sale of these licenses was \$378,135.00, while the sum of \$527,663.30 was collected in 1944-45, or an increase of \$149,528.30, or approximately seventy per cent. of the total increase.

The revenue as compared with that of the previous fiscal year also shows the following collections and increases, viz.—  $\,$  .

The total of \$262,163.39 received from the sale of trapping licenses and the various kinds of resident hunting licenses represents an increase of \$10,419.09.

Fees from the sale of fur dealers' licenses and from fur royalties amounted to \$225,081.40, or an increase of \$49,355.95.

Fines and costs imposed on those convicted of violations of provisions of the Game and Fisheries Act and the regulations amounting to \$25,615.71, represents an increase of \$10,612.61.

The following comparisons in connection with the sale of licenses may prove to be of interest:—

NON-RESIDENT ANGLING LIC	CENSES	
19	943-44	1944-45
Individual (Seasonal)	27,314	36,907
Individual (Three-Day)	27,622	32,242
Family	12,593	18,859
Manitoba Residents		817
Boys' Camp	13	18
NON-RESIDENT HUNTING LI	CENSES	
19	943-44	1944-45
Small Game	1,605	1,949
Deer	1,782	2,385
General	504	653
Bear (Spring Season)	157	181
RESIDENT HUNTING LICEN	NSES	
	1943-44	1944-45
Deer	31,067	31,470
Deer (Camp)		398
Deer (Farmers')	6,858	6,786
Moose	854	875
Gun	87,504	92,847

During the year expenditures to a total of \$638,765.27 were made by the Department, and it should be noted that these were all ordinary expenditures. There was no expenditure on capital account. The following statement is a resume of the details of this expenditure:—

#### EXPENDITURE FOR THE FISCAL YEAR ENDING MARCH 31st, 1945

#### ORDINARY —

Main Office	FF 010 00
Main Office\$	55,819.80
General	45,828.00
Enforcement	238,596.35
Game Animals and Birds	12,095.04
Macdiarmid	3,482.96
Biological and Fish Culture	222,759.54
Grants	5,400.00
Wolf Bounty	45,993.58
Bear Bounty	8,790.00
Manufacture Control of	

As compared with the previous year this total represents an increase in ordinary expenditure of approximately \$68,000.00, the increase being spread over the various activities indicated in the foregoing table, and \$51,000.00 of this increase was absorbed by the expenditures made in connection with two branches of the Service, viz: Enforcement and Biological and Fish Culture.

Total .....\$638,765.27

The allocation of grants followed the distribution which has been in effect for the past few years, details of which are as follows: \$2,500.00 to the Ontario Fur Breeders' Association, Inc., to encourage the efforts of this Association to improve the practice followed by those engaged in the fur farming industry in the Province; \$500.00 to Professor W. J. K. Harkness in connection with his research

work with a view to providing information which will assist in improving fish culture practice in the Department and throughout Ontario; \$500.00 to the Ontario Federation of Anglers and Hunters for their efforts to secure the co-operation of sportsmen interested in hunting and angling in Departmental activities; and the remaining \$1,900.00 in varying amounts, to the late Mr. Jack Miner, Mr. Thomas N. Jones and Miss Edith L. Marsh in appreciation of their services in providing sanctuary for migratory and native birds on their properties located respectively in the counties of Essex, Elgin and Grey.

The favorable balance of revenue over expenditure for the year under review was \$554,268.45. This balance to the credit of consolidated revenue has been exceeded only once in the history of the Department, viz. in 1941-42, as will be shown in the following table which depicts annual departmental revenues and expenditures during the past ten years:—

	REVENUE	EXPENITURE	SURPLUS
		(Ordinary and	•
		Capital)	
1935-36	\$ 683,938.72	\$451,041.91	\$232,896.81
1936-37	782,217.63	474,128.95	318,088.68
1937-38	866,558.19	563,938.33	302,619.86
1938-39	914,475.24	575,437.79	339,037.45
1939-40	1,015,350.82	568,198.55	447,152.27
1940-41	984,800.69	512,834.70	471,965.99
1941-42	1,183,269.29	576,762.26	606,507.03
1942-43	962,350.89	574,732.49	387,618.40
1943-44	975,072.60	574,525.05	400,547.55
1944-45	1,193,033.72	638,765.27	554,268.45

#### GAME

Herewith is a summary of conditions as they apply to the various species of game animals and birds which are to be found in Ontario, compiled principally from reports which have been supplied to the Department by our field officers throughout the Province:—

**DEER:**—While it should be stated that this species of excellent game animal is not too plentiful in many of the southwestern and southeastern counties in which entire protection throughout the year has been provided over an extended period of time, it is noted that in most of these counties increasing numbers have been observed, and in some cases to such an extent has this improvement continued that a short period of open season was provided in six different townships, details of which are set forth herewith:—

- (a) From November 20th to 23rd, 1944, in the Townships of Aldborough and Dunwich in the County of Elgin, and in the Township of Wilmot in the County of Waterloo;
- (b) From November 22nd to 25th, 1944, in the Township of East Gwillimbury in the County of York; and
- (c) From November 20th to 25th, 1944 in the Townships of Mountain and Williamsburg in the County of Dundas.

Special hunting licenses were provided for this open season, and these licenses were issued to those interested by the respective Township Clerks.

In connection with this season the following regulations were provided to govern,—  $\,$ 

That the use of dogs for such hunting would not be permitted;

That hunters would be required to use shot-guns with either buck-shot or S.S.G shells for ammunition;

That the use of rifles would be prohibited; and

That hunters would be permitted to take only one deer, either buck or doe, over the age of one year.

In addition to this a special open season for deer was provided, on the recommendation of the County Council, in that portion of the county of Carleton lying west of the Rideau River, from November 6th to 21st, 1944, and during which open season the general provisions which apply to the hunting of deer were in effect:

By an amendment to the Game and Fisheries Act provided by the Legislative Assembly during the Session of 1944, and as a means of further protection, the following additional counties and portions of counties were included in that part of the Province in which an entire close season for deer prevails, viz:— the Counties of Durham, Northumberland and Prince Edward, that portion of the County of Ontario lying south of the north boundary of Scott and Brock Townships, the Township of Howe Island in the County of Frontenac and the Township of Cambridge in the County of Russell.

In those portions of Ontario in which an open season for the taking of deer is established by the general provisions of the Game and Fisheries Act it may be stated that favorable conditions prevailed for the successful hunting of these animals, and as has been indicated by reference made earlier in this report this is substantiated by the fact that again thousands of resident and non-resident hunters secured licenses to authorize them to partake of the privileges thus available and enjoy the recreational pleasures which such hunting provides during the period of the regular open season in the fall of the year.

MOOSE:—The prevalence of these animals in numbers to warrant successful hunting of the same is confined to scattered areas principally in the districts situated in that part of Ontario lying north and west of the French and Mattawa Rivers and Lake Nipissing, and while such conditions do prevail the reports which have been submitted do not indicate much improvement with a few local exceptions.

Open seasons were provided for the hunting of moose:—

- (a) From November 13th to 21st, 1944, in the Townships of Alice, Buchanan, Burns, Clara, Fraser, Head, Maria, McKay, Petawawa, Richards, Rolph and Wylie in the County of Renfrew; and
- (b) From October 16th to 31st in the area east of the C.P.R. and C.N.R., from Bigwood to Westree and south of the road from Westree to the Ontario-Quebec interprovincial boundary in the vicinity of New Liskeard.

These special seasons were in addition to the regular periods of open season provided by the Game and Fisheries Act.

As has been previously stated in this report there was a total of 1,528 licenses, resident and non-resident, issued for the hunting of moose and while

this represents an increase of twelve per cent. over the figures of the previous year, the increase is principally made up by the improved sale of such licenses to non-resident hunters.

CARIBOU:—There are but few parts of Ontario in which this species is reported to exist, and their numbers apparently are extremely scarce. A survey of the reports received reveals the fact that they have been observed in scattered and extremely small herds only in the districts of Sudbury, Algoma, Thunder Bay and Kenora. It would appear that there is little or no reason to anticipate any noticeable improvement in a general way even though local increases have occurred, and the protection afforded by the complete close season which has prevailed in the past will be necessary to maintain this species even at its present limited level.

**ELK:**—Such specimens of elk as are found in Ontario at this time are attributable to the efforts of the Department in the past to re-establish this species in this Province. As stated in previous annual reports the original stock was secured from Western Canada with the co-operation of the National Parks Branch of the Federal Government. Their numbers are still quite few, and they are, of course, to be found only in the areas in which they have been liberated, that is in certain portions of the Counties of Bruce, Simcoe and Peterborough in the southern portion of the Province, and in the Districts of Algoma, Nipissing, Sudbury and Thunder Bay in Northern Ontario. This species is naturally provided the protection of an entire close season.

**BUFFALO:**—A small herd of buffalo was received in Ontario from Alberta some five years ago. These animals were placed on the Burwash Crown Game Preserve located in the District of Sudbury. Little or no improvement has been reported.

**BEAR:**—In those parts of Ontario in which suitable habitat prevails these animals continue to be sufficiently plentiful to be somewhat of a nuisance to those engaged in agricultural pursuits, and the damage to domestic flocks and herds has been sufficiently extensive to warrant the provision of a regulation for the payment of bounty to encourage the destruction of bear under certain circumstances. This regulation provides for the payment of this bounty on bears which have been killed in settled agricultural areas in specified portions of the Province and details of the operations under this regulation are provided elsewhere in this report.

In addition to constituting the nuisance related in the previous paragraph this species is sufficiently plentiful in many sections to afford a measure of successful hunting for the sportsmen who are interested in such pursuit, and in this connection it is very interesting to note that we have quite a number of United States residents who visit Ontario to participate in the hunting of bear during the season which is provided each year between April 1st and June 15th.

**RABBITS:**— In Ontario three species of rabbits are known to exist, viz:— cottontail, the European Hare (or jack-rabbit), and the snowshoe rabbit (or varying hare). The cotton-tail rabbit is native to practically all of the southern counties, the jack-rabbit is restricted pretty well to the southwestern counties, though reports indicate some extension to the eastern counties and some northern districts in the southern portion of the Province, while the snowshoe rabbit is prevalent in the various northern Ontario districts as well as in some of the northern districts and eastern counties in southern Ontario.

These animals were sufficiently plentiful in most sections to warrant the conclusion that they continue to provide very enjoyable and successful hunting particularly during the late fall and early winter months. Notwithstanding this favour-

able conclusion there are naturally some sections in which reports state that there has been a diminution of the numbers of rabbits, but in no case would this be applicable to more than one of the species which were prevalent therein.

It is undoubtedly true that the favourable hunting which rabbits provide is a source of considerable satisfaction to the hunters who are interested, and their numbers are legion, and provides a condition which is greatly appreciated.

**PARTRIDGE:**— The general conditions which applied to the various species of partridge native to this Province, judging from the reports submitted, was none too favourable in many portions of Ontario, nevertheless there were other sections in which it was indicated that their numbers were sufficiently plentiful to justify the provision of a restricted period of open season.

The regulation which established this open season provided that it would prevail in that portion of Ontario lying south of the French and Mattawa Rivers and Lake Nipissing, except in those counties lying south and west of, but not including the counties of Huron, Bruce, Grey, Dufferin, Simcoe and Ontario, and in the districts of Nipissing, Temiskaming, Cochrane, Sudbury, Manitoulin, and Algoma. It will be noted that in addition to the southwestern counties previously referred to this open season was not in effect in the northern districts of Thunder Bay, Rainy River and Kenora. Two periods were included in this open season, i.e., from October 7th to 14th, 1944, and from November 6th to 11th, 1944. It was further provided "that no person shall take or kill such birds in excess of five (5) per day in all, or twenty-five (25) in all during the aforesaid two periods, or have in possession at any time such birds in excess of the numbers herein prescribed."

No provision was made to permit the hunting of partridge in the townships established as Regulated Game Preserve Areas, on the days on which the hunting of pheasants was permitted, as had been the case in previous years.

HUNGARIAN PARTRIDGE:— In connection with this species it would be apparent that while there are quite a few of the southern Ontario counties in which scattered small flocks are to be found there are very few extensive areas in which they have been observed. Perhaps the best areas are located in the extreme southwestern counties of Essex and Kent and adjoining counties and in the eastern counties of Dundas and Stormont, but their numbers are not too plentiful even in these counties. These birds are not native to the Province and those which are now found here are the result of re-stocking undertaken in previous years by the Department.

During the year 1944 the hunting of these birds was provided by regulation effective on three days only, October 26th, 27th and 28th, in the counties of Essex and Kent. The regulation which governed established a bag limit of two (2) birds per day.

PHEASANTS:— The Department continued its policy of purchasing and liberating pheasants for the restocking of the various Township Regulated Areas, and in other areas in which suitable conditions for the development of these birds exist. This policy was inaugurated some years ago and has been continued with the object of establishing this species in suitable areas and in which it may be practicable to declare a period of open season. According to statistics which have been compiled in the Department, a total of 11,896 pheasants were secured from three bird farms operating in Norfolk, Northumberland and Victoria Counties. Of this number, 9,972 were distributed in varying quantities throughout the Regulated Townships, 1,907

for general re-stocking in other areas, and the remaining 17 were allotted to private individuals to assist them in their efforts to improve their own private flocks.

Details of this distribution are contained in the following table:

Burford 150 South Dumfries 105 Onondaga 75  Elgin	County Brant	Township	Poults	Adults	Total 330
South Dumfries   105   Onondaga   75		Burford	150		000
Elgin  Aldborough 105 Bayham 90 Dorchester 90 Dunwich 90 Malahide 90  Haldimand  Canboro 90 Cayuga North 90 Cayuga South 75 Dunn 75 Moulton 105 Seneca 90 Sherbrooke 60 Walpole 105 Oneida 60 Rainham 45  Halton  Esquesing 135 Nassagawega 105 Nelson 210 Trafalgar 255 Lambton  Plympton 120  Middlesex  Metcalfe 90 Westminster (X) 305 Molton 105 Gainsboro 100 Caistor 90 Clinton 105 Gainsboro 120 Grimbsy North 60 Grimbsy South 75 Grantham (X) 105 Garinshoro 105 Carintam (X) 105 Carint					
Elgin	*				
Bayham   90   Dorchester   90   Dunwich   90   Malahide   90     795	Elgin				465
Bayham   90   Dorchester   90   Dunwich   90   Malahide   90     795		Aldborough	105		
Dorchester   90   Dunwich   90   Malahide   90   90   90   90   90   90   90   9			90		
Malahide   90   795			90		
Haldimand		Dunwich	90		
Canboro 90 Cayuga North 90 Cayuga South 75 Dunn 75 Dunn 75 Moulton 105 Seneca 90 Sherbrooke 60 Walpole 105 Oneida 60 Rainham 45  Halton Esquesing 135 Nassagawega 105 Nelson 210 Trafalgar 255  Lambton Plympton 120 Middlesex 405 Metcalfe 90 Westminster (X) 305 10 Lincoln Caistor 90 Clinton 105 Gainsboro 120 Grimsby North 60 Grimsby South 75 Grantham (X) 105 Louth 105 Naigara (X) 135 Nagara (X) 135 South 75 Grantham (X) 105 Louth 105 Niagara (X) 135 Norfolk 480 Middleton 90 Windham 150 Windham 150 Walsingham 90 Ontario Pickering 210 105		Malahide	90		
Cayuga North	Haldimand				795
Cayuga South   75   Dunn   75   Moulton   105   Seneca   90   Sherbrooke   60   Walpole   105   Oneida   60   Rainham   45   Massagawega   105   Nassagawega   105   Nelson   210   Trafalgar   255   Lambton   Plympton   120   Middlesex   Metcalfe   90   Westminster (X)   305   10   Lincoln   Caistor   90   Clinton   120   Grimsby North   60   Grimsby South   75   Grantham (X)   105   Niagara (X)   135   20   Norfolk   Middleton   90   90   Middleton   90   90   90   90   90   90   90   9		Canboro	90		
Dunn   75   Moulton   105   Seneca   90   Sherbrooke   60   Walpole   105   Oneida   60   Rainham   45   Massagawega   105   Nelson   210   Trafalgar   255   Lambton   Plympton   120   Middlesex   Metcalfe   90   Westminster (X)   305   10   Lincoln   Caistor   90   Clinton   105   Gainsboro   120   Grimbsy North   60   Grimsby South   75   Grantham (X)   105   10   Louth   105   Niagara (X)   135   20   Norfolk   Middleton   90   Townsend   150   Walsingham   90   Ontario   Fickering   210   105   105   Tomato   Townsend   150   Walsingham   90   Ontario   Pickering   210   105   Tos   Townsend   150   Walsingham   90   Ontario   Fickering   210   105   Tos   T		Cayuga North	90	ť	
Moulton   105   Seneca   90   Sherbrooke   60   Walpole   105   Oneida   60   Rainham   45   Massagawega   105   Nelson   210   Trafalgar   255   Lambton   Plympton   120   Middlesex   Metcalfe   90   Westminster (X)   305   10   Lincoln   Gainsboro   120   Grimbsy North   60   Grimbsy North   60   Grimbsy South   75   Grantham (X)   105   10   Louth   105   Niagara (X)   135   20   Norfolk   Middleton   90   Townsend   150   Walsingham   90   Ontario   Pickering   210   105   105   105   Mither   150   Walsingham   90   Ontario   Pickering   210   105   105   105   105   106   Mither   150   Mither   150   Mindleton   90   Townsend   150   Mindleton   90   Townsend   150   Walsingham   90   Ontario   Pickering   210   105   1		Cayuga South	75		
Seneca   90   Sherbrooke   60   Walpole   105   Oneida   60   Rainham   45		Dunn	75		
Sherbrooke   60   Walpole   105   Oneida   60   Rainham   45     705		Moulton	105	1	
Walpole		Seneca	90		
Oneida		Sherbrooke	60		
Halton		Walpole	105		
Halton			60		
Esquesing 135 Nassagawega 105 Nelson 210 Trafalgar 255  Lambton Plympton 120  Middlesex 405  Metcalfe 90 Westminster (X) 305 10  Lincoln Caistor 90 Clinton 105 Gainsboro 120 Grimbsy North 60 Grimsby South 75 Grantham (X) 105 I Louth 105 Niagara (X) 135 20  Norfolk Middleton 90 Townsend 150 Walsingham 90  Ontario Pickering 210 105 Whitby East 120		Rainham	45	•	
Nassagawega   105   Nelson   210   Trafalgar   255	Halton				705
Nelson   210				*	
Lambton       Trafalgar       255         Middlesex       Metcalfe       90         Mestminster (X)       305       10         Lincoln       Caistor       90         Clinton       105       25         Cainsboro       120       20         Grimbsy North       60       60         Grimsby South       75       75         Grantham (X)       105       10         Louth       105       10         Louth       105       10         Niagara (X)       135       20         Norfolk       Middleton       90         Townsend       150       480         Windham       150       480         Ontario       Pickering       210       105         Whitby East       120       105					
Lambton   Plympton   120					
Plympton   120		Trafalgar	255		
Middlesex       405         Metcalfe       90         Westminster (X)       305       10         Lincoln       825         Caistor       90         Clinton       105         Gainsboro       120         Grimbsy North       60         Grimsby South       75         Grantham (X)       105         Louth       105         Niagara (X)       135         20       Norfolk         Middleton       90         Townsend       150         Windham       150         Walsingham       90         Ontario       555         Pickering       210       105         Whitby East       120	Lambton	•			120
Metcalfe 90 Westminster (X) 305 10  Lincoln		Plympton	120		
Lincoln  Caistor 90 Clinton 105 Gainsboro 120 Grimbsy North 60 Grimsby South 75 Grantham (X) 105 Louth 105 Niagara (X) 135 Norfolk  Middleton 90 Townsend 150 Windham 150 Walsingham 90  Ontario  Westminster (X) 305 10  825  A825  A825  A826  A827  A827  A828  A830  A840	Middlesex				405
Caistor 90   Clinton 105   Gainsboro 120   Grimbsy North 60   Grimsby South 75   Grantham (X) 105   10   Louth 105   Niagara (X) 135   20   Norfolk   Middleton 90   Townsend 150   Windham 150   Walsingham 90   Ontario   Pickering 210 105   Whitby East 120   Sainsboro 150   Contact of the					
Caistor 90 Clinton 105 Gainsboro 120 Grimbsy North 60 Grimsby South 75 Grantham (X) 105 10 Louth 105 Niagara (X) 135 20  Norfolk Middleton 90 Townsend 150 Windham 150 Walsingham 90  Ontario Pickering 210 105 Whitby East 120		Westminster (X)	305	10	205
Clinton   105   Gainsboro   120   Grimbsy North   60   Grimbsy South   75   Grantham (X)   105   10   Louth   105   Niagara (X)   135   20   Norfolk   Middleton   90   Townsend   150   Windham   150   Walsingham   90   Ontario   Fickering   210   105   Whitby East   120     105     1	Lincoln	-			825
Gainsboro   120   Grimbsy North   60   Grimbsy South   75   Grantham (X)   105   10   Louth   105   Niagara (X)   135   20   Norfolk   Middleton   90   Townsend   150   Windham   150   Walsingham   90   Ontario   Fickering   210   105   Whitby East   120   South   1					
Grimbsy North   60   Grimsby South   75   Grantham (X)   105   10   Louth   105   Niagara (X)   135   20   Norfolk   Middleton   90   Townsend   150   Windham   150   Walsingham   90   Ontario   Pickering   210   105   Whitby East   120   South   120					
Grimsby South   75   10   105   10   100					
Grantham (X)					
Louth   105   Niagara (X)   135   20     20     20     20     20     20     20     20     20     20     20     20     20   20     20     20     20     20   20     20   2				4.0	
Norfolk				10	
Norfolk         Middleton         90           Townsend         150           Windham         150           Walsingham         90           Ontario         555           Pickering         210         105           Whitby East         120				00	
Middleton 90 Townsend 150 Windham 150 Walsingham 90 Ontario Pickering 210 105 Whitby East 120	NT 6 11	Niagara (X)	135	20	400
Townsend   150	Norfolk	361333-4	00		480
Windham       150         Walsingham       90         Ontario       555         Pickering       210       105         Whitby East       120					
Ontario Walsingham 90 5555 Pickering 210 105 Whitby East 120					
Ontario 555  Pickering 210 105  Whitby East 120					
Pickering 210 105 Whitby East 120	Ontonio	waisingnam	90		555
Whitby East 120	Ontario	Dielroning	910	105	200
· ·				100	
WILLDY WCSL 120					
		wintby west	120		

10	DEPARTMENT U	r GAME ANL	) FISHERIES	No. 9	(1946)
County Oxford	Towr	nship	Poults	Adults	Total 300
	Dere	ham	120		
	Oxfo	rd East	180		
Peel					923
	Albio	n	105		
	Caled	don	105		
	Chin	guacousy	270	52	
	Toro	-	240	42	
	Toro	nto Gore	90	19	
Prince Edward					90
	Mary	sburgh South	90		
Welland	·	Ü			1245
	Berti	e	120		
	Crow		120		
		berstone	120		
	Pelha	am	135		
	Stam	ford	255		
	Thor		120		
	Wain		120		
	Willo	oughby	255		
Wellington					150
	Pusli	nch	150		
Wentworth					795
	Anca	ster	135		
	Barto		105		
	Beve		105		
	Binb		75		
	Flam	boro East	90		
		boro West	90		
	Glan		79		
	Saltf		120		
York					1,789
	Gwil	limbury East	165		
		limbury North	165		
	King	•	240		
	Mark		274	105	
		borough (X)	245	10	
	Vaug		180	105	
	_	church	300		

<sup>(</sup>X) — Includes a total in all of 315 birds supplied to the Ontario Bird Dog Association, and released during dog trials, as follows: Grantham 10, Niagara 155, Scarborough 45 and Westminster 105.

## GENERAL RE-STOCKING

COUNTY or DISTRICT	POULTS	ADULTS	TOTAL
Bruce	12		12
Essex Mainland	610	193	
Pelee Island	238		1,041
Kent	600	155	755
Manitoulin	12		12
Northumberland	45		45
Peterborough	30		30
Sudbury	12		12
Totals	1559	348	1,907

Arrangements were made to provide open seasons for pheasants as follows:

(a) In the following townships established as Regulated Game Preserve Areas, viz:—

South Marysburgh in Prince Edward County;

Pickering, Whitby, and East Whitby in Ontario County;

East Gwillimbury, North Gwillimbury, King, Markham, Scarborough,

Vaughan and Whitchurch in York County;

Albion, Caledon, Chinguacousy, Toronto (part) and

Toronto Gore in Peel County;

Esquesing, Nassagawega, Nelson and Trafalgar in Halton County;

Puslinch in Wellington County;

Ancaster, Barton, Beverly, Binbrook, East Flamboro, West Flamboro Glanford and Saltfleet in Wentworth County:

Bertie, Crowland, Humberstone, Pelham, Stamford, Thorold,

Wainfleet and Willoughby in Lincoln County;

Canboro, North Cayuga, South Cayuga, Dunn, Moulton, Oneida, Rainham,

Seneca, Sherbrooke, and Walpole in Haldimand County;

Burford, South Dumfries and Onondaga in Brant County;

Middleton, Townsend, North Walsingham and Windham in

Norfolk County;

Dereham and East Oxford in Oxford County;

Aldborough, Bayham, South Dorchester, Dunwich and

Malahide in Elgin County;

on October 20th and 21st, 1944.

(b) In the following townships established as Regulated Game Preserve Areas, viz:—  $\,$ 

Caistor, Clinton, Gainsboro, Grantham, North Grimsby, South Grimsby, Louth and Niagara in Lincoln County; on October 20th, 21st and 25th, 1944.

(c) In the following townships established as Regulated Game Preserve Areas  ${\bf viz}:$ —

Metcalfe and Westminster (part) in Middlesex County; and Plympton in Lambton County; on October 26th and 27th, 1944.

In connection with the various seasons in the aforementioned township

Regulated Game Preserve Areas the regulation which governed stipulated a bag limit of three cock birds per day. It was further provided that the special township hunting license was required by hunters in addition to the regular hunting license demanded by the provisions of the Game and Fisheries Act.

- (d) On Pelee Island on October 26th and 27th, 1944. The regulation in this instance provided that "no person shall take, kill or have in possession such birds (pheasants) in excess of five per day, two of which shall be hen birds"; and, as in the case of the open seasons in the Regulated Township Areas, a special township hunting license was required by hunters who participated in this open season on Pelee Island. All hunting on Pelee Island was prohibited during the period from October 19th to 25th, 1944, that is, during the week previous to the pheasant shoot.
- (e) In the counties of Essex and Kent on October 26th, 27th and 28th, 1944, with a provision for a bag limit of three cock birds per day.

**QUAIL:**— Conditions as they apply to this species are not favourable, nor does information regarding their prevalence indicate much improvement over previous years. There are but few sections in which there is any evidence of their existence, and they are generally speaking confined to the most southerly counties. The only section in which an open season was provided was in the counties of Essex and Kent, and in which counties the open season coincided with that which prevailed with respect to pheasants, viz:— October 26th, 27th and 28th. The regulation in effect provided a bag limit of four birds per day in the case of quail.

DUCKS:— The various species of wild ducks which are available in Ontario during the open season which occurs during the southerly migration of these birds in the fall of the year were reported to be quite plentiful in many sections of the Province, though there are some areas, particularly in Northern Ontario in which such favourable conditions do not prevail. The hunting provided by this species of waterfowl represents a substantial measure of enjoyment to the sportsman who is interested in this division of our wild-life. The regulations which govern are provided by the Federal Government under the provisions of the Migratory Birds Convention Act. The complete protection of a close season throughout the year was continued in the case of wood duck, while the hunting of eider duck was permitted, as in past years, only north of the Quebec-Cochrane-Winnipeg line of the Canadian National Railway from September 15th to November 15th. The only change in the regulations which apply was in respect to the period of the open season which was extended five days throughout the Province, and in the northern division the season closed on December 5th instead of November 30th as had been previously provided, while in the southern division the season closed on December 15th instead of December 10th.

**GEESE:**— Favourable shooting conditions with respect to this species do not prevail to any great extent in Ontario. Generally speaking such conditions exist only in the extreme northerly portion of the Province, along the western shore of James Bay, the southerly extension of Hudson's Bay, and in two or three counties in the southwestern peninsula. They are observed in scattered areas during the periods of migration, but in such cases they offer little or no attraction to hunters.

The period of open season which is provided is similar to that which is in effect in the case of ducks as is related in these comments on the last mentioned species with the exception that in the counties of Essex, Kent and Elgin the open season was from November 1st to January 10th, an extension of eight days over the season which previously existed and which ended on January 2nd.

The species Brant are provided the protection of a complete closed season throughout the year.

**WOODCOCK:**— General conditions as they apply to this species of game bird are not too satisfactory. They are reported to exist in various portions of Ontario, but except in some scattered sections they are not sufficiently plentiful to encourage hunters to participate in such hunting as is provided under the Migratory Bird Regulations.

In 1944 the open season on woodcock extended from October 1st to 31st, and the regulations which governed specified a bag limit of eight per day and a seasonal bag limit of one hundred birds.

**SNIPE:**— Conditions somewhat similar to those which prevail in connection with woodcock are evident with respect to snipe. There are some sections in which they provide desirable sport, but generally speaking they are not too plentiful.

The open season extended from September 15th to November 15th in the northern division and from October 1st to November 30th in the southern division. The bag limits were reduced considerably in 1944, the daily limit being decreased from twenty to eight, and the seasonal limit decreased from two hundred to fifty.

**PLOVER:**— Reports from field offices indicate that while these birds may be found in most parts of the Province, they are not at all plentiful except in a few widely separated counties, and the protection of an entire close season as is provided under the Migratory Birds Convention Act is justified by these conditions. There are some areas in which improvement has been observed, though such increase is in no way general nor too noticeable.

## FUR-BEARING ANIMALS

Following is a summary of the conditions which apply throughout the Province to the various species of fur-bearing animals which are known to exist here, and which remarks are based on the reports submitted by members of the Field Service staff of the Department:—

**BEAVER:**— These animals continue to provide a good proportion of the financial returns accruing to trappers from their trapping operations. Conditions as they apply to this species continue to be quite favourable in many sections and more particularly in the remoter areas in which circumstances suitable to their propagation and increase prevail. Such suitable circumstances are undoubtedly augmented by the intensive efforts put forth by members of the enforcement service commensurate with their other duties, to secure as strict observance as they possibly can of the provisions of the Game and Fisheries Act established for the protection and development of this very desirable fur-bearer. There are, of course, many portions of the Province in which such favourable conditions with regard to numbers do not exist, and in these sections they are rigidly protected and an entire close season prevails.

The following open seasons were provided during the year 1944:

(a) Throughout Northern Ontario (except the District of Rainy River and that portion of the District of Kenora lying south of the main transcontinental line of the Canadian National Railway), and in the districts of Parry Sound, Muskoka, and Nipissing (South), the counties of Haliburton, Lanark and Renfrew, and those portions of Hastings, Lennox, and Addington and Frontenac lying north of num-

ber 7 Highway.

Trappers were allowed to take not more than ten beaver during this open season, and while the territory in which this open season prevailed was not as extensive as that in which such open season was provided in the previous year the catch of beaver in 1944 exceeded by approximately 6,000 the catch of the previous year.

(b) In the county of Grey and in the townships of Orillia and Matchedash in the county of Simcoe, under the following conditions, viz: that trapping operations for beaver would be restricted to licensed trappers and farmers residing in the respective areas; that each trapper or farmer should take not more than ten beaver during such open season, and that such pelts as were taken were to be forwarded to the Department for disposal by us on behalf of the respective trappers concerned.

The period of open season in each instance extended from December 1st to 21st.

It has been revealed by Departmental records that there were some 38,070 pelts taken during these periods of open season, an increase of practically fifteen per cent over the catch recorded during the season in the previous year.

It is computed that these pelts had a value to the trappers of some \$1,366,713.00, which is in excess of twenty-five per cent of the total value of the entire fur catch taken during the fiscal year 1944-45.

**FISHER:**— Very few of these animals are trapped during the season which extends from November 1st to February 28th, and while there was an increase in the number taken during the 1944-45 season as compared with the number taken in the previous season, reports from officers show that any improvement in the case of this species is very restricted and confined to scattered localities.

**FOX:**— This species continues to be quite plentiful in practically every section of the Province and they are not only causing considerable damage to domestic poultry flocks but they are also responsible for some of the decrease reported among certain species of game birds. Several township councils have provided by-laws under the authority of which such municipalities pay bounties under certain conditions on foxes killed within the boundaries of the respective townships. This extreme prevalence of foxes resulted in the Department continuing the arrangement which relaxed the legislation which provided the protection of a close season on these animals in the counties of Brant, Durham, Elgin, Essex, Haldimand, Halton, Huron, Kent, Lambton, Lincoln, Middlesex, Norfolk, Northumberland, Oxford, Peel, Perth, Prince Edward, Waterloo, Welland, Wellington, Wentworth and York. In these counties it was also provided that dogs could be used for the hunting of foxes without permit, as is required by existing provisions of the Game and Fisheries Act. As is indicated further on in this report there were 43,185 red foxes taken during 1944-45 which was a decrease of more than 10,000 as compared with the number which was taken in the previous year.

**LYNX:**— These animals continue to be extremely scarce throughout the Province, and they are practically non-existent in southern Ontario. There are no reports to indicate they are increasing anywhere in the Province, although there was an increase in the number taken during the year under review.

MARTEN:— The conditions applicable to marten are somewhat similar to those

reported in connection with fisher and lynx. This species is extremely scarce throughout the entire area, and they are practically extinct in the southern portion of the Province. As in the case of fisher, the season in this case extends from November 1st to February 28th. Trappers take but a limited number of marten during the season, though there was a slight increase in 1944-45.

MINK:— This species continues to be fairly plentiful and is available in many sections of Ontario. The open season which prevails extends from November 1st to February 28th. It is one of the more desirable species of fur-bearing animal available to trappers. Returns compiled in the Department show that between fifteen and twenty per cent of the total amount received by trappers from their entire fur catch of 1944-45 was derived from the sale of mink. The catch of mink for the year under review decreased seventeen per cent in comparison with that of the previous year.

MUSKRAT:—General conditions with reference to muskrat continue to be quite favourable in practically every section of the Province and the revenue earned by trappers from the sale of these pelts constitutes their principal source of income. It has been estimated that 38 per cent of the total value of the entire fur catch in 1944-45 was attributable to the sale of muskrats. The 1944-45 catch exceeded by approximately 100,000 pelts the number which was taken in 1943-44.

The open season which is in effect is provided annually by regulation to coincide as far as possible with suitable weather conditions in the various sections. In the past the periods of this open season have been omitted from this report for the reason that in many instances the season commences in one fiscal period and terminates in the succeeding fiscal period. However, it may be desirable for purposes of record to incorporate in this report details of such open season, and to inaugurate this decision this open season which prevailed in 1944 will be recorded.

#### Period of Open Season

Cou	nty or District	From	To
	Brant	March 10th	April 22nd
	Bruce	April 1st	May 1st
	Carleton	April 1st	May 5th
	Dufferin	March 10th	April 26th
	Dundas	March 10th	May 1st
	Durham	March 10th	May 1st
	Elgin	March 1st	April 5th
	Essex	March 1st	April 5th
(X)	Frontenac (S)	March 10th	May 1st
	Frontenac (N)	April 1st	May 5th
/	Glengarry	March 10th	May 1st
	Grenville	March 10th	May 1st
	Grey	April 1st	May 1st
	Haldimand	March 1st	April 5th
	Haliburton	April 1st	May 10th
	Halton	March 10th	April 26th
(X)	Hastings (S)	March 10th	May 1st
	Hastings (N)	April 1st	May 5th
	Huron	March 10th	April 26th
	Kent	March 1st	April 5th
	Lambton	March 10th	April 22nd
	Lanark	April 1st	May 5th
	Leeds	March 10th	May 1st
(X)	Lennox and Addingto	onMarch 10th	May 1st
(X)		on April 1st	May 5th

		Period of Open Seas	on
Cour	nty or District	From	To
	Lincoln	March 10th	April 22nd
	Middlesex	March 10th	April 22nd
	Muskoka	April 1st	May 10th
(X)	Nipissing (S)	April 1st	May 10th
	Norfolk	March 1st	April 5th
	Northumberland	March 10th	May 1st
	Ontario (S)	March 10th	May 1st
$(\mathbf{X})$	Ontario (N)	April 1st	May 5th
	Oxford	March 10th	April 22nd
	Parry Sound	April 1st	May 10th
	Peel	March 10th	April 26th
	Perth	March 10th	April 26th
	Peterborough (S)	March 10th	May 1st
(X)	Peterborough (N)	April 1st	May 5th
	Prescott	April 1st	May 5th
	Prince Edward	March 10th	May 1st
,	Renfrew	April 1st	May 10th
	Russell	April 1st	May 5th
	Simcoe (S)	March 10th	April 26th
(X)		April 1st	May 1st
	Stormont	March 10th	May 1st
	Victoria (S)	March 10th	May 1st
(X)	Victoria (N)	April 1st	May 1st
	Waterloo	March 10th	April 26th
	Welland	March 1st	April 5th
	Wellington	March 10th	April 26th
	Wentworth	March 10th	April 22nd
	York	March 10th	April 26th
	Algoma	April 21st	May 21st
	Cochrane	April 21st	May 21st
	Kenora	April 21st	May 21st
	Manitoulin	April 21st	May 21st
(X)	Nipissing (N)	April 21st	May 21st
	Patricia	April 21st	May 21st
	Rainy River	April 21st	May 21st
	Sudbury	April 21st	May 21st
	Temiskaming	April 21st	May 21st
	Thunder Bay	April 21st	May 21st

(X)—The dividing lines between the northern and southern areas in these counties and districts are as follows:

Highway No. 7 in the counties of Frontenac, Hastings, Lennox and Addington, Peterborough and Victoria.

The Mattawa River in the district of Nipissing.

The north boundary of the townships of Brock and Scott in the county of Ontario.

The north boundary of the townships of Tossorontio, Essa and Innisfil in the county of Simcoe.

**OTTER:**—These animals are extinct in many of the southern Ontario counties, and conditions in the areas in which they do exist are not very favourable. The number trapped during the year shows an increase, but they do not provide any important portion of the revenue received by trappers in general. The period of open season extends from November 1st to February 28th.

RACCOON:—It is only in that part of Ontario south of the French and Mattawa Rivers that these animals are found. The pelts of this species are not in great demand. Conditions which apply to the prevalence of raccoon remained about the same and while the total catch showed a decline during the year it was better

than the average catch over the previous five years. The open season for the taking of raccoon extends from November 1st to December 31st.

**SKUNK:**—As in the case of raccoon, these pelts are not in great demand, and the prices paid for them do not encourage trappers in their attempts to take these animals. They are quite plentiful in practically every section of the province, though there was a considerable decline in the catch during 1944-45 in comparison with that of the previous year.

**WEASEL:**—Conditions with reference to weasel are variable, and though they are plentiful in many counties and districts the value of their pelts is not sufficient to encourage intensive operations for the trapping of this species. The catch during 1944-45 was about normal though somewhat decreased.

The following is a comparative table showing the numbers of pelts of the several varieties of fur-bearing animals taken in Ontario, and which were either exported or dressed, during the fiscal year 1944-45, as well as figures for the three preceding years.

	1941—42	1942—43	1943—44	1944—45
Bear	384	288	269	306
Beaver	25,197	24,194	32,266	38,070
Fisher	884	691	1,035	1,219
Fox (Cross)	1,780	2,649	4,350	3,691
Fox (Red)	32,215	31,297	53,205	43,185
Fox (Silver or Black)	206	265	499	449
Fox (White)	114	185	33	22
Lynx	537	552	646	938
Marten	1,652	1,417	1,610	1,701
Mink	63,996	60,331	52,289	43,098
Muskrat	722,387	642,810	683,450	782,220
Otter	3,880	3,557	3,964	4,650
Raccoon	13,499	13,420	20,664	17,381
Skunk	94,656	48,337	79,298	45,117
Weasel	80,776	62,553	67,461	62,859

Again trappers experienced a highly successful season, both from the standpoint of the numbers of pelts which were taken by them and their financial returns received from the sale of these pelts. The average price of fur declined somewhat during this period, but notwithstanding this decline it has been estimated that the value of the fur trapped in Ontario and disposed of in the fiscal year under review amounted in all to a total of \$5,138,126.68. As has been mentioned previously the principal pelts contributing to this sum were muskrat—\$1,955,550.00, beaver—\$1,366,713.00, mink—\$933,933.66 and red fox—\$302,295.00.

In addition Departmental records show that during this fiscal year licensed fur farmers as a result of their activities marketed the pelts of 22,085 silver and black foxes, 1,312 blue foxes and 76 cross foxes, and in addition the pelts of 58,539 mink, all of which had an estimated value of \$1,852,084.49, which was approximately the same amount as that received during the previous year .

It will therefore be observed that the fur produced and sold by trappers and licensed fur farmers in the fiscal year under review was marketed for a total sum of \$6,990,211.17

## FUR FARMING

While wartime problems continued to beset the fur breeder, and the future market for raw furs was somewhat uncertain, there was sufficient demand to maintain prices at a level commensurate with the rising cost of operation. The industry continued on practically the same scale as in the previous year. 1220 fur farmers' licenses were issued during the year 1944 — 1091 renewals and 129 new licenses.

# THE FOLLOWING IS A SUMMARY OF THE BREEDING STOCK ON LICENSED FUR FARMS AS AT JANUARY 1st

•	1040	1042	1044	1045
	1942	1943	1944	1945
Beaver	18	21	23	44
Fisher	16	15	12	14
Cross Fox	112	68	58	64
Red Fox	73	96	123	106
Silver Black Fox	15,630	12,901	12,114	11,238
Blue Fox	644	595	838	955
Platinum Fox	X	125	729	1,514
White Marked Fox	X	1,379	2,030	2,629
Lynx	2	2	0	2
Marten	19	15	20	17
Mink	38,650	29,345	33,971	36,912
Muskrat	119	52	0	26
Raccoon	124	121	155	128
Skunk	5	2	0	1

# FUR FARMS IN ONTARIO

For the Year 1944 by County or District

County or District.	1944	County or District.	1944	County or District. 1944
Algoma	. 16	Kenora	22	Prescott 7
Brant		Kent	20	Prince Edward 6
Bruce	. 48	Lambton	13	Rainy River 22
Carleton	. 24	Lanark	81	Renfrew 55
Cochrane	. 7	Leeds	15	Russell 6
Dufferin	. 4	Lincoln	7	Simcoe 74
Dundas	. 4	Manitoulin	15	Stormont 5
Durham	. 5	Muskoka	8	Sudbury 8
Elgin	. 8	Middlesex	44	Timiskaming 11
Essex	. 14	Nipissing	4	Thunder Bay 73
Frontenac	. 21	Northumberland	3	Victoria 17
Glengarry	. 4	Ontario	28	Waterloo 43
Grenville	. 8	Oxford	20	Welland 6
Grey	. 78	Norfolk	10	Wellington 24
Haldimand	. 19	Parry Sound	14	Wentworth 29
Halton	. 24	Peel	16	York 112
Hastings	. 8	Perth	41	
Huron	. 56	Peterboro	5	1,220

## WOLF BOUNTIES

The following is a comparative statement showing annual wolf bounty statistics for a period of five years ending with the fiscal year 1944-1945.

Period	Timber	Brush	Pups	Total	Bounty & Expenses
For year ending Mar. 31, 1941	738	400	8	1,146	\$16,477.43
For year ending Mar. 31, 1942	1,199	577	37	1,813	40,593.77
For year ending Mar. 31, 1943	935	497	32	1,464	33,606.62
For year ending Mar. 31, 1944	1,302	731	32	2,065	46,545.75
For year ending Mar. 31, 1945	1,321	665	12	1,998	45,993.58

## WOLF BOUNTY

Pursuant to the provisions of the Wolf Bounty Act, the continued destruction of wolves was encouraged at prevailing rates of bounty, \$25.00 on an adult timber or brush wolf, and \$5.00 on a pup under 3 months of age.

It is noted from Department records that more wolves were taken during each of the last two fiscal years than in any year since 1937. This is indicative of the increase in the wolf population and that favourable weather conditions during the winter months are an important factor in the hunting and destruction of predators.

## WOLVES KILLED

## WOLF BOUNTY CLAIMS

Fiscal Year Ending March 31st, 1945

The following table indicates the total number of wolves killed in each of the Counties and District and in respect of which applications for payment of bounty were submitted.

Number of  Number of  Number of   Tota							
County	Timber	Brush	Pups	Wolves			
Brant	0	1	0	1			
Bruce	8	21	0	29			
Carleton	0	8	0	8			
Durham	0	2	0	2			
Essex		1	0	1			
Frontenac	11	19	0	30			
Grenville		1	0	1			
Grey		2	0	2			
Hastings	26	4	0	30			
Huron	4	0	0	4			
Kent	0	1	0	1			
Lambton	0	9	4	13			
Lanark	8	4	0	12			
Leeds	2	0	0	2			
Lennox & Add	10	8	0	18			
Norfolk	0	4	0	4			
Northumberland	0	1	0	1			
Peterborough	6	0.	0	6			
Renfrew	26	12	0 1	38			
	•		•				

	•			
Simcoe	15	5	0	20
Victoria	0	22	0	22
Wellington	0	1	0	1
York	0	10		10
TOTAL COUNTIES	116	136	4	256
DISTRICTS				
Algoma	64	71	6	141
Cochrane	28	0	0	28
Haliburton	20	1	0	21
Kenora	311	113	0	424
Manitoulin	33	91	0	124
Muskoka	26	2	0	28
Nipissing	83	24	0	107
Parry Sound	55	4	0	59
Patricia	128	17	0	145
Rainy River	140	83	2	225
Sudbury	108	69	0	177
Temiskaming	20	0	0	20
Thunder Bay	191	56	0	247
TOTAL DISTRICTS	1,207	531	8	1,746
Grand Total	1,323	667	12	2,002

The Department continued the practice instituted on November 1st 1942, of giving to the Seaman's Fur Vest War Project, the wolf pelts submitted in support of applications for payment of bounty. These pelts were manufactured into fur vests by volunteer workers and were made available to personnel of the Naval Service and Merchant Marine.

## BEAR BOUNTY

The payment of bounty to control the population of bears was continued. The regulations provided for a bounty of \$10.00 on bears killed between April 15th and November 30th by a bona fide resident of a township, located in certain counties and districts, and of which 25% of the total area was devoted to agriculture.

The Department received 774 applications for bounty on 910 bears killed during the period covered by this report. Payment of 26 of these claims involving 31 bears, was disallowed however, due principally to the fact that 25% of the total area of the township in which the bears were killed, was not devoted to agriculture. The total bounty paid therefore, was \$8,790.00 for 879 bears.

Coun	4	~	Died	
Colin	T.V	$\mathbf{or}$	DIST	rict

estility of Electrical	
Algoma	37
Cochrane	166
Kenora	27
Manitoulin	7
Muskoka	18
Nipissing	92
Parry Sound	81

Rainy River	84
Sudbury	66
Thunder Bay	10
Temiskaming	177
Haliburton	15
Bruce	5
Frontenac	7
Hastings	46
Lennox & Addington	10
Peterborough	6
Renfrew	54
Victoria	2
Total	910

#### TOURIST OUTFITTERS

While travel restrictions and similar unfavorable conditions curtailed the volume of tourist traffic and many camps could not operate at full capacity during the season, most of the camp operators renewed their licenses in 1944. Five hundred and sixty Tourist Outfitters' Camp Licenses were issued during the period covered by this report, an increase of twenty-one, as compared with such licenses issued during the previous year.

There was considerable interest in post war expansion. Ninety-three applications for permits to establish camps were considered, of which fifty-five were granted. Twenty-one were refused and seventeen were in abeyance at March 31st., 1945. Ten new camps were completed and licensed during the year.

Details regarding location of the camps licensed to operate during the year, are as follows: —  $\,$ 

Algoma	77
Cochrane	7
Kenora	137
Manitoulin	48
Nipissing	76
Parry Sound	104
Patricia	1
Rainy River	28
Renfrew	12
Sudbury	48
Timiskaming	5
Thunder Bay	17
_	
Total	560

## CROWN GAME PRESERVES

This phase of the Department's conservation work is an important factor in the development and perpetuation of the wild-life of the Province. In the northern part of Ontario much of the sanctuary reserved for game is contained within Crown Lands. These are mostly bush lands,—sometimes wild and frequently inaccessible,—providing a natural environment and offering food and cover under the

best possible conditions. While these areas are quite extensive every effort is made to protect them against poachers, field officers making frequent patrols into and around the various preserves. Wild-life development within these areas has been very satisfactory while adjacent territory has benefited from the overflow.

In the southern part of the Province, where the lands are mostly privately owned and largely of an agricultural nature, there is a considerable number of small sanctuaries, serving a useful purpose in the protection and development of upland game birds and animals. These areas have been set aside with the cooperation of the landowners who are for the most part vigilant in protecting any game which may be found on their lands.

No additions to these Crown Game Preserves have been made during the period under review.

## LEGISLATION AND REGULATIONS

Amendments to the Game and Fisheries Act were provided during 1944 as follows:—

(a) Provision to establish fur royalties by regulation;

(b) Extending the southerly boundary of division (b) for the purposes of hunting deer and moose therein. Additional townships formerly located in division (c) were included in division (b) by this amendment;

(c) Adding the counties of Durham, Northumberland, Prince Edward, the township of Howe Island, the township of Cambridge, the townships of Scott and Brock and all townships south thereof in the county of Ontario to the areas in which the hunting of deer is prohibited at all times;

(d) Establishing portions of the district of Parry Sound and the district of Nipissing south of the Ottawa and Mattawa Rivers as a separate division for the hunting of deer, and providing for the open season for such purpose therein;

(e) A later open season for deer in that portion of southern Ontario defined as division (ddd):

(f) Including farmers' sons in the exemption provided in subsection 4 of Section 10 (gun licenses) when hunting on such farmers' lands;

(g) Clarification of the provisions of subsection 3 of Section 15 relating to tourist outfitters:

(h) Extending the provision which requires possession of licenses to sell nets, to include in addition to gill nets, hoop nets, pound nets and seine nets.

(i) Extension of the spring open season for bear, to extend from April 1st to June 15th.

(j) Prohibiting the owners of greyhounds to pursue game or run at large on Sundays; and prohibiting the owners of dogs from permitting such dogs to molest game birds or disturb their nests during the months of April, May, June or July, except during approved field trials;

(k) Prohibiting the possession of artificial lights at night by persons in possession of fire-arms capable of killing deer or moose;

(1) Adding the counties of Halton, Northumberland and Ontario to those counties in which the use of snares is prohibited at all times;

(m) Adding the counties of Lincoln, Wentworth and York to those counties in which there is a bag limit of six cotton-tail rabbits per day; and prohibiting the sale of such rabbits in these counties;

(n) Prohibiting the discharge of any fire-arm from or across the King's Highway; and

(o) Authorizing the export by non-resident hunters of "additional

small game animals and birds not in excess of the numbers authorized to be killed or taken by this Act (Game and Fisheries Act) or the regulations in respect of which special open seasons may be provided."

Amendments to the Special Fishery Regulations for the Province of Ontario in 1944 were as follows:

- (a) The open season for black bass and maskinonge in all the waters of Lake Erie was changed to extend from June 25th to December 15th; and
- (b) The open season for black bass and maskinonge in the waters of the River St. Lawrence was changed to extend from June 16th to October 15th.

Amendments to the Migratory Bird Regulations were in accordance with the details as outlined in the reference to ducks, geese and snipe previously recorded in this report.

#### ENFORCEMENT

This Department is responsible for the administration throughout Ontario of The Game and Fisheries Act and the regulations which may be provided thereunder, as well as The Special Fishery Regulations for the Province of Ontario provided by the Federal Government under The Fisheries Act (Canada), The Migratory Birds Convention Act, insofar as the regulations apply in Ontario, and The Wolf Bounty Act.

For the enforcement of this legislation the Department maintains a staff of Game and Fisheries Overseers whose services are augmented at different periods of the year, but principally during the period of the Spring Fish spawning season, by additional seasonal overseers. In addition members of the Ontario Provincial Police force co-operate with our regular officers to secure better observance of the various provisions of these legislative enactments and regulations.

The work of enforcement is also assisted by the efforts and co-operation of the hundreds of Deputy Game and Fishery Wardens who annually apply for such appointments. This co-operation with the regular Overseers by these Deputy Game Wardens is provided without expense to the public and serves a very useful purpose. It is more than probable that the services rendered by these honorary officers are generally speaking not to the extent of making seizures and prosecuting those who have been apprehended violating the provisions of the legislation with the enforcement of which we are charged, but rather for the purpose of advising and drawing to the attention of those who might be contemplating such violations the importunities which might result, and thus they act principally in a preventive rather than an enforcement capacity. They undoubtedly render good service on behalf of the general public, and it would be difficult to estimate the value of the assistance which is thus voluntarily provided.

In the performance of their duties enforcement officers did apprehend offenders on many occasions, and in such cases this action was followed by the seizure of equipment which was being employed in connection with the violations so witnessed. During the period of the fiscal year under review there were 1,247 cases in which seizures were made from such offenders. These seizures were the result of action provided by Game and Fisheries Overseers in 1146 cases, by Deputy Game and Fishery Wardens in 9 cases, by members of the Ontario Provincial Police Force in 25 cases, and by members of municipal police forces in 3 cases. In the remaining 64 cases the seizures resulted from action in which Overseers, Deputy Game Wardens and Provincial Police constables co-operated with each other.

The following is a summary of the articles which were placed under seizure in these actions,  $-\!-\!$ 

Live Animals and Birdsin	2	cases.
Birds, game animals and meatin	142	cases.
Fire-arms and Ammunitionin	389	cases.
Fishin	209	cases.
Nets and Fishing Equipmentin	140	cases.
Angling Equipmentin	152	cases.
Pelts and Hidesin		
Traps and Trapping Equipmentin	154	cases.
Canoes, row-boats and motor-boatsin	14	cases.
Outboard Motorsin	9	cases.
Motor Vehiclesin	4	cases.
Flashlights and lanternsin	25	cases.
Spearsin		
Miscellaneous Articles in	46	cases.

While the combined total of these various articles exceeds 1,247, the actual number of seizures made during the year, the discrepancy is accounted for by the fact that there are many seizures made in which articles in more than one of these classifications are included, such as fire-arms and game, traps and pelts, fishing tackle and fish, and in all the cases in which water-craft, outboard motors and motor vehicles are involved articles in other classifications would be included.

Departmental records disclose the fact that the fire-arms which were seized in these cases consisted of 177 small calibre fire-arms such as .22's and .25's, 95 larger calibre rifles, 1 revolver, 7 air guns, 58 single-barrel shot-guns, 69 double-barrel shot-guns, 18 repeater shot guns, and 1 automatic shot gun.

Details of confiscated pelts of fur-bearing animals are as follows:

Beaver	468
Fox	94
Lynx	1
Marten	2
Mink	71
Muskrat	
Otter	
Raccoon	
Skunk	
Squirrel	46
Weasel	31
Deer and Moose Hides	64

Charges were laid and subsequent prosecutions were undertaken in 1,085 cases in which violations of the Game and Fisheries Act and the various Regulations were involved. Following these charges and prosecutions convictions were registered and penalties imposed by the presiding magistrates in 1,034 of these cases. The charges were dismissed, principally for lack of supporting evidence, in 44 cases. In 6 cases the charges were withdrawn previous to the trial and in one case the defendant received a warning.

In connection with the 1,034 convictions which were registered, the charges were laid by Game and Fisheries Overseers in 1,005 cases, by Provincial Constables in 21 cases, and in the remaining 8 cases the charges followed information laid

jointly by Overseers and Provincial Constables.

In connection with the 44 cases in which the charges were dismissed the information was laid in 42 of these cases by Game and Fisheries Overseers, in one case by Provincial Constable and in the one remaining case jointly by Game and Fisheries Overseers and Provincial Constables.

Game and Fisheries Overseers were responsible for the 6 actions in which the charges were withdrawn, and were also responsible for the one action in which the defendant was warned.

## REPORT OF THE FISH CULTURE BRANCH

Fish culture may be defined as any procedure for increasing the stock of fish. One of the procedures used extensively in Ontario, is the planting of hatchery raised fish. In the majority of cases this procedure is a supplement and not a substitute for nature's means of replenishment.

A study of the complex series of events which occur from the time the fish egg is fertilized until the end product, the fish, reaches sexual maturity discloses useful facts for developing advantageous procedures in fish culture. For example, fundamental fish culture research may result in the establishment of important principles governing successful planting.

During the year twenty-seven hatcheries and rearing stations were operated. In keeping with prevailing wartime restrictions, no new plants were established. The introduction to the report of the Fish Culture Branch for the year 1943-1944, contains information on the classification of the hatcheries and rearing stations, and the kinds and sizes of the fish cultured. Since this classification is substantially the same for this year it is unnecessary to report the details of it here.

## THE CULTURE AND DISTRIBUTION OF FISH

#### Speckled Trout:

The distribution of speckled trout during the year was approximately as follows:

2,877,000 yearlings 493,840 fingerlings 4,360 adults

It is not the policy of the Department to plant fingerlings (under-yearlings) unless the accommodation at our rearing stations is taxed beyond their proper capacities. On account of crowded conditions at Chatsworth, Sault Ste. Marie, Dorion and Hill Lake, distribution was required until crowded conditions were alleviated.

#### **Brown Trout:**

The department is careful to avoid planting brown trout in streams that continue to support native speckled trout satisfactorily, or in streams that may be susceptible to improvement for the latter. The distribution of brown trout is confined to streams where there is scant possibility of their rehabilitation for speckled trout on a practical basis; the lower reaches of a number of streams cut off by dams from the upper reaches, where speckled trout still thrive, have been stocked with browns advantageously.

Planting of browns in suitable streams continues to yield fruitful results. During the year, the Department received many reports of excellent catches from waters which were previously barren of speckled trout, due largely to temperatures unsuitable for them.

Approximately 331,000 yearlings were planted this year, an increase of 90 per cent over the previous year's distribution.

#### Rainbow Trout:

#### (a) Steelhead:

It has long been recognized that steelhead rainbow have a tendency to migrate from streams in which they have been planted to larger waters such as the Great Lakes during their second year or when they are about a foot in length. On reaching sexual maturity, they ascend streams in spring and leave again after the completion of spawning. Hence they are available to anglers for only a short time, and consequently comparatively few are found in the fisherman's creel.

It is only in the larger rivers and lakes that rainbow trout are normally found, except during their immature stages. The St. Mary's, the Pine and certain of the larger parts of the Nottawasaga are examples of rivers in which rainbows remain throughout the year. They have survived chiefly in larger lakes, Superior, Georgian Bay and Lake Simcoe, which they inhabit for the most part, as adults.

Distribution was confined with few exceptions to the larger tumultuous rivers flowing into Georgian Bay and Lake Superior, and larger rivers and lakes of Southern Ontario where successful planting has been indicated.

Approximately 32,200 fingerlings and 4,000 yearlings were planted during the year.

#### (b) Kamloops Trout:

The monthly bulletin of the Department, February, 1946, vol. 1, No. 4, contains a detailed account of the life history, culture, and planting of Kamloops trout in provincial waters. As mentioned in the Annual Report 1943-44, many of our domesticated adult stock of Kamloops trout have not spawned satisfactorily within recent years. Consequently, until eggs can be secured from the stock that is being reared at Chatsworth Trout Rearing Station, the distribution of this species will be limited. Notwithstanding this difficulty, a distribution of 7,200 yearlings was carried out this year; this is a 44 per cent increase over plantings of the preceding year.

#### Lake Trout:

The collection of lake trout eggs in the fall of 1943 was 20 per cent lower than that of the fall of 1942. This was reflected in the distribution in 1944 which was 21 per cent lower than that of 1943. In addition to this distribution, 44,000 yearling lake trout were planted.

Steps are being taken by the Department to ascertain the factors responsible for the decline, with a view to providing a remedy.

#### Atlantic Salmon:

"Nearly 30,000 salmon of Miramichi stock obtained from the Dominion Department of Fisheries, hatched at Glenora, and fed at the Waring Creek Rearing Station for about 34 days, were planted on June 20, 21 and 22, 1944, in Duffin Creek above Pickering by the Ontario Department of Game and Fisheries with the co-

operation of members of the staff of the Ontario Fisheries Research Laboratory. The plan followed was based upon the experience of the Fisheries Research Board on the Petitcodiac River, N B., and involved distributing the fish along the streams of the system in numbers related to estimated holding capacity for yearlings. A total of 54,890 yards were planted. Neither the large, lowest waters nor for the most part the small uppermost waters were included, but the distribution covered a large part of the two main branches of the system and their tributary streams.

Hand-seinings (one man) made by myself in July, August and September, and by Dr. Huntsman in October, by which time the fish were from 5.7 cm. (2.2 in.) long in the coldest water to 11 cm. (4.3 in.) in the better waters, showed that some salmon survived in all the tributaries and in the upper parts of the two main streams, but in only two places were they found elsewhere. Most were in cool clear waters with constant, moderate flow, which were apt to be noted for trout. Some correlation is seen between disappearance of salmon (from the main stream) and heavy floods with very much sediment, which alter the stream bed, forcing the fish to shift their locations, and reducing the available food supply. Also salmon survival seems correlated with few minnows and rainbow darters. The salmon were found as a rule in from 6 to 12 inches of water, at somewhat intermediate temperatures, over clean, coarse gravel, or in relation to such cover as stones, boulders, etc. and in partial shade rather than dense woods or open to full sky. By mid-October, from none to nearly a third of the number planted were found in various parts of the streams examined, but the proportion of those present that would be caught in the seining was unknown." (D. M. Britton).

#### Whitefish:

The distribution of whitefish was 30 per cent less than that of the preceding year.

The collection of whitefish eggs in the fall of 1943 was 23 per cent less than the collection in 1942. This decrease was noticeable on all the spawning areas where collections were made. Likewise the distribution of whitefish in 1944 was 30 per cent less than that of 1943.

#### Herring:

The total collection of herring spawn and the percentage fertility of the eggs taken varies considerably from year to year. It is probable, although there is no documented evidence that can be cited as proof, that in both cases weather conditions may be largely responsible.

The collection made in the fall of 1943 was somewhat smaller than that of 1942, and the loss due to infertility was very much higher. Consequently, the distribution in 1944 was considerably less than that of 1943.

#### Yellow Pickerel:

The number of yellow pickerel eyed eggs and fry planted this year was substantially the same as last year, namely, a 2.8 per cent increase in 1944 over that of 1943.

#### Small-mouth Black Bass:

The number of small-mouth black bass fry planted was greatly in excess of that of the preceding year, namely a 300 per cent increase. The production of

fingerlings was increased by 69 per cent. There was also a substantial increase in the number of yearling and adult bass planted.

# Large-mouth Black Bass:

As formerly, one pond was operated for the propagation of large-mouth black bass; the production being 130,000 fry and 14,600 fingerlings.

#### Perch:

The production of perch fry was approximately the same as that of the preceding year.

## Maskinonge:

The distribution of maskinonge fry and fingerlings was 130 per cent and 37 per cent higher, respectively, than in 1943.

## CLOSED WATERS

In addition to the waters already closed for the natural protection and propagation of fish the following were closed during the period April 1, 1944 and March 31, 1945.

#### ADAM LAKE

Located in unorganized territory north of Clay Lake, and between Fluke Lake and Segise Lake, District of Kenora.

#### BENORIS LAKE

Located on Lot 25, Concessions 8, 9 and 10, Township of Harcourt, District of Haliburton.

#### FISHTAIL LAKE

Located on Lots 10 and 15, Concessions 8 and 9, Township of Harcourt, District of Haliburton.

## HARVEY or NOGIES CREEK (Part)

Located on Lot 10, Concession 2, Township of Galway and Lot 28, Concession 17, Township of Harvey, County of Peterborough.

#### KINGSCOTE LAKE

Located in the Township of Harcourt, District of Haliburton.

MASKINONGE CREEK flowing from Maskinonge Lake; Little Vermillion Lake, (Part) and Maskinonge Lake (Part)

Located on Lot 12, Concession 5, and Lot 8, Concession 6, respectively, Township of Pickerel, District of Kenora.

## McMILLAN CREEK

Located on Lot 33, Concession 6; Lot 34, Concession 6; Lot 25, Concession 6, Township of McKillop, Lot 1, Concession 6; Lot 2, Concession 6; Lots 2, 3, 4, 5, 6, 7, Concession 5, and Lot 7, Concession 4, Township of Hullett, County of Huron.

## NASH'S CREEK or HOASIE'S CREEK

Located on Lots 26 and 27, Concession 1, Township of Williamsburg,

County of Dundas.

#### SILVER CREEK

Located on Lot 22, Concession 2; Lot 21, Concession 2; W.H. Lot 21, Concession 1, Lot 22, Concession 1, Lot 23, Concession 1, Township of McKillop, and Lot 9, Concession 1, Township of Tuckersmith, County of Huron.

Part of Little Thessalon or Bridgland River located between what is known as RESERVE DAM and McCREIGHT'S DAM, both in Township of Kirkwood, Algoma District.

## BIOLOGICAL SURVEYS

Biological surveys were conducted on — Twelve Mile Creek, Lincoln County; Welland River and Canal, Welland County; Walker's Pond, Middlesex County, and Belwood Lake, Wellington County.

The Grand River was examined near Dunnville regarding the need for fishways in order that pickerel might have access to the reaches of the river above the dams at Dunnville.

Streams in the vicinity of Caledon were studied as to their possibilities as hatchery sites.

The following waters were examined for evidence of pollution and for other causes of fish mortality.

- River between Sturgeon Lake and Pigeon Lake at Bobcaygeon.
   Pollution by domestic sewage evident, but it had no noticeable effect on fish life.
- 2. Beardmore Creek at Acton Tannery wastes.
- 3. Duffin's Creek near Pickering Treated domestic sewage.
- 4. Sandy Lake, Peterborough County Some fish mortality but the cause was not determined.
- 5. Grand River near Kitchener Domestic and trade wastes.
- 6. Nith River near New Hamburg Domestic Sewage.
- Lake Ontario off Peel and Halton Counties Persistent oil slick on the water in this area.

The Ontario Fisheries Research Laboratory of the Department of Zoology, University of Toronto continued the studies of fisheries in the Provincial parks and other waters of the Province. Financial assistance and cooperation making this work possible was received from the Ontario Department of Game and Fisheries, the National Committee on Fish Culture, the University of Toronto, and for work within the parks, the Ontario Department of Lands and Forests.

#### STOCKING, LAKE CLOSURE and CREEL CENSUS

The experimental stocking of selected lakes in Algonquin Park and the practice of alternate annual closure of Lakes were continued as in previous years as experiments in fish culture directed toward building up a good stock of both lake trout and speckled trout. The creel census was carried out in order to determine the efficacy of these two procedures.

Bioligical studies have been initiated in Lake Superior Provincial Park, Sibley Provincial Park and Quetico Provincial Park, in all of which the creel census has been used as a means of determining the present availability of stock of game fishes. More intensive biological studies have been carried out on the lakes and streams of both Quetico and Sibley Parks as a basis for a management policy to improve the game fishery.

Meetings of the Ontario and New York State fisheries biologists were held on two occasions during the year at Kingston, Ontario, for the purpose of planning studies on lake Ontario. Arising out of these conferences investigations of the plankton production, small-mouth black bass and whitefish were undertaken. The bass of the upper St. Lawrence river and adjacent Ontario waters were tagged in order to determine their movements throughout the year.

A special study of the whitefish was carried out to compare the effectiveness of natural reproduction with that of hatchery produced fry. In order to accomplish this, the hatchery raised fry are to be planted in alternate years and an analysis of the year class composition of fish in the commercial catch is to be carried out continuously so that the year class of whitefish arising from natural spawning only, and natural spawning supplemented by hatcheries may be measured.

In conjunction with this investigation the Ontario Department of Game and Fisheries have greatly improved the method of collecting statistics of catch from the commercial fishermen which constitutes an essential adjunct to the successful implementation of this research.

In view of the fact that the Atlantic salmon were formerly abundant in Lake Ontario and tributary streams where they are now completely lacking, an investigation has been undertaken in cooperation with the Ontario and Federal Departments of Fisheries to determine whether or not it may be possible to introduce this valuable species. This investigation includes, also, an analysis of the distribution of planted salmon fry and fingerlings along the course of Duffin Creek where the experiment is being carried out to determine conditions within the stream favourable or unfavourable for the planted fry.

The techniques and results of this study may be of the greatest importance as having a direct bearing upon the general practice of planting fry and fingerlings of any species in the waters of the Province.

Closely integrated with this investigation, studies are being made on the effect which sedimentation in the stream has upon invertebrate life constituting the food of the fishes living there.

#### ACKNOWLEDGEMENTS

In conclusion I desire to express general satisfaction with the services rendered by the various members of the Departmental staff, both in the Main Office and in the Field. They performed their duties in a conscientious manner, and were generally courteous in their contacts with the public with whom they had any dealing.

Local Fish and Game Protective Associations and the Northern Ontario Tourist Trade Association, as well as their various officers, have cooperated with the Department in our efforts to secure strict observance of the legislation provided for the protection of fish and game in the Province and in our work to further extend and develop conditions favourable to the possible improvement of the wild-life division of our natural resources, and it would be extremely difficult to estimate the value of the results of this co-operation. It is superfluous to add that this assistance has somewhat relieved the burdens of administration and it is very deeply appreciated.

Many other organizations and individuals have assisted with desirable advice and suggestions, and the efforts put forth by Municipal Councils and Controlling Organizations in the Townships included in the scheme of Regulated Game Preserve Areas have been of considerable advantage and benefit in bringing to this scheme the success it at present enjoys.

All of which is respectfully submitted.

I am, Sir,

Your obedient servant,

D. J. Taylor Deputy Minister of Game and Fisheries

# APPENDIX NO. 1

# SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1, 1944, to March 31, 1945.

LARGE-MOUTHED BLACK	K BASS	Dundas	10,000
FRY		Frontenac	41,000
<b>.</b>	20,000	Grenville	7,000
Bruce	•	Grey	16,000
Muskoka	10,000	Haliburton	15,000
Nipissing	20,000	Hastings	65,000
Parry Sound	15,000	Huron	2,000
Victoria	50,000	Kent	10,000
Waterloo	10,000	Lambton	10,000
Wellington	5,000	Lanark	10,000
FINGERLINGS		Leeds	63,000
Brant	1,500	Lennox	19,000
Lincoln	5,000	Lincoln	5,000
Middlesex	1,000	Manitoulin	85,300
Oxford	500	Muskoka	3,300
Perth	1,600	Nipissing	10,100
Welland	5,000	Northumberland	11,500
	·	Oxford	5,1000
YEARLINGS AND ADU		Parry Sound	17,100
Oxford	51	Peel	2,000
		Peterborough	13,600
SMALL-MOUTHED BLACK	K BASS	Prince Edward	15,000
FRY		Renfrew	7,000
Algoma	35,000	Russell	1,000
Bruce	110,000	Simcoe	13,000
Elgin	30,000	Stormont	10,000
Frontenac	6,000	Sudbury	32,400
Grey	10,000	Temiskaming	3,000
Halton	40,000	Thunder Bay	52,000
Hastings	15,000	Victoria	8,500
Huron	10,000	Welland	5,000
Lanark	14,000	Wellington	8,000
Manitoulin	185,000	York	20,000
Muskoka	175,000	1011	_0,000
Nipissing	180,000	YEARLINGS AND AD	
Ontario	10,000	Brant	172
Parry Sound	450,000	Haliburton	250
Peterborough	65,000	Hastings	460
Simcoe	10,000	Manitoulin	476
Sudbury	505,000	Norfolk	100
Victoria	90,000	Northumberland	20
Waterloo	60,000	Parry Sound	384
	30,000	Perth	100
Wellington	30,000	Peterborough	872
FINGERLINGS			
Algoma	59,500	MASKINONGE	
Brant	5,400	FRY	
Carleton	2,500	Dundas	15,000
Cochrane	1,200	Grenville	20,000
	•		

# SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1, 1944, to March 31, 1945

FRY (Continued)		Nipissing	6,400,000
Hastings	320,000	Northumberland	3,800,000
Leeds	10,000	Ontario	200,000
Lennox-Addington	20,000	Parry Sound	17,750,000
Nipissing	45,000	Peterborough	9,400,000
Muskoka	20,000	Prince Edward	800,000
Northumberland	160,000	Simcoe	2,000,000
Ontario	10,000	Stormont	700,000
Parry Sound	20,000	Sudbury	5,200,000
Peterborough	1,260,000	Temiskaming	3,150,000
Prince Edward	80,000	Thunder Bay	1,000,000
Renfrew	10,000	Victoria'	3,800,000
Simcoe	25,000	Welland	300,000
Stormont	20,000	York	750,000
Sudbury	40,000	Great Lakes	23,000,000
Victoria	630,000	FRY	_0,000,000
	,	Algoma	1,950,000
FINGERLINGS		Bruce	350,000
TITTOETTOE		Cochrane	3,075,000
Hastings	400	Kenora	70,350,000
Nipissing	300	Lanark	300,000
Peterborough	1,640	Lennox & Addington	7,000,000
Victoria	612	Manitoulin	4,250,000
		Muskoka	1,275,000
341313401140		Nipissing	1,050,000
MINNOWS		Parry Sound	4,250,000
Muskoka	25,000	Prince Edward	5,140,000
	,	Rainy River	21,500,000
PERCH		Renfrew	9,150,000
FERCH		Simcoe	200,000
Lake Erie	17,980,000	Sudbury	8,650,000
Lake St. Clair		Temiskaming	2,175,000
(Mitchell's Bay)	500,000	Thunder Bay	4,750,000
		Great Lakes	11,900,000
PICKEREL			
		ATLANTIC SALMO	N
EGGS			
Algoma	16,275,000	$\mathbf{FRY}$	
Bruce	1,400,000	Ontario	30,000
Dundas	450,000		
Frontenac	2,650,000	BROWN TROUT	
Grenville	500,000	**************************************	
Hastings	1,350,000	YEARLINGS	
Kent	500,000	Brant	18,200
Lambton	1,050,000	Bruce	25,800
Lanark	1,850,000	Cochrane	700
Leeds	1,850,000	Durham	11,000
Lennox-Addington	850,000	Elgin	9,600
Lincoln	150,000	Grey	70,400
Middlesex	250,000	Haldimand	2,000
Muskoka	6,575,000	Halton	19,700 -
			,

# SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1, 1944, to March 31, 1945

YEARLINGS (Continu	ed)	Nipissing	71,400
Hastings	9,800	Parry Sound	50,000
Huron	13,400	Peterborough	49,500
Middlesex	3,000	Rainy River	77,800
Muskoka	1,200	Renfrew	34,000
Norfolk	29,200	Sudbury	84,500
Northumberland	6,050	Thunder Bay	105,000
	11,400	Temiskaming	20,500
Oxford	4,000	York	5,000
Parry Sound	18,600	Great Lakes	2,225,000
Peel	4,800		
Perth	11,100	VE A DI INCO	
Peterborough		YEARLINGS	
Renfrew	4,200	Algoma	22,478
Simcoe	16,300	Bruce	6,000
Waterloo	10,800	Nipissing	11,540
Wellington	12,500	Simcoe	3,000
Welland	5,400	Temiskaming	1,000
Wentworth	5,400	<b>g</b>	_,
York	3,700		
Miscellaneous, Sale	0.500	RAINBOW TROUT	
(propagation purposes)	2,500	FINGERLINGS	
			10.100
LAKE TROUT		Algoma	18,186
EYED EGGS		Manitoulin	4,000
		Sudbury	10,000
Exchange	200,000	Dufferin	2,400
		Elgin	500
FRY		Parry Sound	1,000
	20,000	KAMLOOPS TROUT	,
Haliburton	30,000	RAMLOUPS TROUT	
Muskoka	123,000	YEARLINGS	
Nipissing	23,500	Manalandan	4.000
Parry Sound	240,000	Muskoka	4,800
Great Lakes	2,560,000	Parry Sound	2,400
FINGERLINGS		SPECKLED TROUT	
Algoma	180,895	FINGERLINGS	
Bruce	5,000	FINGERLINGS	
Cochrane	17,000	Algoma	1,500
Frontenac	66,000	Bruce	6,000
Haliburton	127,500	Cochrane	31,000
Hastings	33,000	Dufferin	6,000
Kenora	122,900	Grey	27,500
Lanark	5,000	Huron	8,000
Leeds	17,000	Nipissing	30,000
Lennox - Addington	13,000	Thunder Bay	130,840
	1.0.(7.7.)		100,010
Manifollin			
Manitoulin Muskoka	30,000 136,000	TemiskamingWellington	249,000 4,000

# SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1, 1944, to March 31, 1945

YEARLINGS		York 600
Algoma	434,700	Miscellaneous (Sale,
Bruce	28,300	Progation Purposes) 9,400
Cochrane	122,700	
Dufferin	27,300	ADULTS
Durham	24,900	Algoma 3,100
Elgin	7,500	Grey
Frontenac	37,700	Thunder Bay
Grey	107,400	Temiskaming 500
Haliburton	30,150	Temiskanning 500
Halton	3,600	*************
Hastings	121,350	WHITEFISH
Huron	13,950	EYED EGGS
Kenora	13,600	
Lanark	14,400	Exchange 400,000
Lennox - Addington	46,500	Kenora
Lincoln	1,800	Thunder Bay 2,000,000
Manitoulin	119,200	
Middlesex	1,835	WHITEFISH
Muskoka	148,600	***************************************
Nipissing	211,200	FRY
Norfolk	24,800	Kenora 19,385,000
Northumberland	47,850	Manitoulin
Oxford	2,600	Rainy River
Parry Sound	135,500	Simcoe
Peel	13,713	Sudbury 500,000
Perth	600	Great Lakes
Peterborough	47,340	Great Lakes 221,000,000
Renfrew	137,600	
Simcoe	10,300	HERRING
Sudbury	439,550	777.
Thunder Bay	257,860	FRY
Temiskaming	195,265	Great Lakes
Victoria	2,100	Lake Ontario 5,000,000
Waterloo	13,500	Lake Erie
Wellington	21,700	Lake Huron 460,000

# APPENDIX NO. 2

DISTRIBUTION OF FISH ACCORDING TO SPECIES - 1940 to 1944, INCLUSIVE

	1940	1941	1942	1943	1944
Large-mouthed Black Bass	1				
Fry					
Fingerlings Yearlings & Adults	5,500 152				
rearnings & Adults	152	103	250	250	51
Small-Mouth Black Bass		ĺ	ľ	(	ĺ
Fry					
Fingerlings	449,154 1,671				
Yearlings & Adults	1,611	2,234	2,333	1,309	2,004
Maskinonge					j
Fry					
Fingerlings Perch - Fry	2,333	1,494 31,600,000			
Perch - Fry	13,000,000	1 31,000,000	24,173,000	19,000,000	10,480,000
Pickerel (Yellow)			1		
Eyed Eggs	2,000,000	4,500,000	17,250,000	26,950,000	113,950,000
Fry					
Adults	100				] [
Pickerel (Blue)					
Fry	[		[	150,000	į
Brown Trout					]
Eyed Eggs				10,000	 
Fingerlings	182,725	60,000	23,000	1,000	
Yearlings	252,000	346,188	359,275	303,335	330,750
Lake Trout					
Eyed Eggs	575,000	800.000	400,000	200,000	200,000
Fry	7,564,000	913,000	367,000		
Fingerlings			15,429,600		
Yearlings			10,680	60,860	44,018
Atlantic Salmon			1		
Fry					
Fingerlings	46,385	ļ		1	
Rainbow Trout				1	
Fingerlings	298,420	164,000	111,000	73,242	32,186
Yearlings	19,724		12,900	15,450	3,900
Vamilaana Muant					
Kamloops Trout Fingerlings		88.150			
Yearlings		25,000	24,800	5,000	7,200
a					
Speckled Trout Fry	1		500	5.000	 
Fingerlings		394,000		9,400	493,840
Yearlings	i				
Adults	7,150	16,732	7,527	10,292	4,360
Whitefish					
Eyed Eggs		] 	250,000	1.900.000	3.400,000
Fry			394,802,000	369,777,500	
Howing					
Fry	49 050 000	8 630 000	18,430,000	   24.560.000	5,662,000
ELJ	10,000,000	0,000,000	10,400,000	23,500,000	0,002,000
Minnows					
Totals	886,995,903	672,960,876	763,750,279	694,833,371	570,892,549



# **APPENDIX**

# GAME AND FISHERIES

Statistics of the Fishing Industry in the Public Waters

**EQUIP** 

DISTRICT	No. Of Men		TUC	#S		OLINE		AND BOATS	GILL	NETS
		No.	Tons	Value	No.	Value	No.	Value	Yards	Value
				\$		\$	1	\$		\$
Northern Inland Waters	872	5	32	19.500	245	102,240	303	19,158	688,322	89.294
Lake Superior	359	12	346	91,500	122	79,730	95	5,750	1,115.305	146,915
North Channel	80	2	20	5,500	35	19 550	34	1.865	182,288	15,455
Georgian Bay	426	12	279	92,950	139	135,610	124	6.707	1,322,586	162,600
Lake Huron	255	8	253	67,000	89	83,525	23	1,360	1,031,924	135.805
Lake St. Chair	79		1		35	16,050	52	3,645		
Lake Erie	925	49	725	343,700	171	281,550	127	10.235	2,605 012	397,470
Lake Ontario	622	1	1		219	130,790	189	8,171	1,220.600	137,630
Southern Inland Waters	191				16	3 650	110	5.085	3,600	1,250
Totals	3809	88	1655	620,150	1071	852.695	1057	61,976	8,169,637	1 086,419

# **APPENDIX**

# QUANTITIES OF

	HERRING	WHITE- FISH	TROUT	PIKE	PICKEREL (BLUE)	PICKEREL (DORE)
DISTRICT	lbs.	lbs.	libs.	libs.	lbs.	l/bs.
Northern Inland Waters	14,609	1.543,977	183.104	830,830	278	1,654.779
Lake Superior	1.480,605	402,701	1,552 693	6,503		95,973
North Channel	12,418	30,788	9,177	78,037	į	61.999
Georgian Bay	55,086	364,368	815,153	29,579	475	55,946
Lake Huron	129,462	142,455	315,828	800	80	154,480
Lake St. Clair		80		11,679		52,533
Lake Erie	335,596	1.258.912	110	42,734	9.389,808	775.589
Lake Ontario	1,018,107	460,882	74,365	73 226	22,628	48,147
Southern Inland Waters	1					
TOTALS	3,045,883	4,204,163	2,950,430	1,073,388	9,413,269	2,899,446
VALUES	\$308,824.46	1.202,152.67	745,294.57	87.970.43	848,151.26	491.571.29

Tic.

NO. 3

# DEPARTMENT, ONTARIO

of Ontario, for the year ending December 31st, 1944

# MENT

SEI	NE NE	rs	Por	ınd Nets	ноо	P NETS		P AND	NIGHT L	INES	SP	EARS		ezers & Houses		rs and harves	TOTAL
No	. Yards	Value	No.	Value	No.	Value	No.	Value	No.	Vall'e	No	Value	No.	Value	No.	Value	VALUE
	1	\$		\$	i 1	\$		\$	Hooks	\$	]	\$	Ϊ.	\$	Ϊ.	\$	\$
			34	14,960	72	2,580	2	4	4,800	390			141	35,720	121	15,595	299,441
			46	19,570							1		67	33,295	60	15,525	392,285
			30	12,500	1	(	- 1						20	7,350	18	7,100	69,320
3	500	500	66	66,800	48	850	1	1	14,400	2.385			63	19,550	53	34.286	522,239
1	100	75	89	61.200					3,600	700			55	29,050	17	5,795	384,510
11	3,500	2,675	98	13,080			1	2	3,900	345	'	· '	15	5,175	10	1,875	42,847
41	9,690	7,360	541	283,200	22	460	6	30	1.650	105	ĺ		106	194,150	90	38,810	1,557,070
10	955	1.225	ſ	1	710	23,407	12	2,352	3,550	143			40	11,395	.39	9,270	324,383
40	3,705	6,825	1		285	9,715	19	100	1,500	55			14	1,980	1	50	28,710
106	18,450	18.660	904	471.310	1137	37,012	41	2,489	33,400	4,123			521	337,665	409	128,306	3.620,805

NO. 4

# FISH TAKEN

STURGEON	EELS	PERCH	TUL- IBEE	CATFISH	CARP	MIXED	CAVIARE	TOTAL	VALUE
lbs.	lbs.	l'bs.	l/bs.	libs.	lbs.	lbs.	libs.	lbs.	\$ c
118,982	1	10,398	169,834	52,551		383,709	1,070	4,964,121	744,286.12
913	ì	1,501	53.296		)	166,864		3.761,049	530,165.43
6,066		23,136	7.314	326	2,378	255,236	31	486,906	56,063.68
988	- 1	2,793	110.347	3,420	19,226	87,552	9	1,544,942	380,384.29
4,512		316,699	257,803	13,494	18,168	106,357	72	1,460,210	272,371.39
4,177	1	39,008	,	63,511	93,153	184.791	179	449,111	48,262.19
14.895		1,372,905		82,577	191,223	1,791,081	231	15,255.661	1.891.243.02
10,584	39,762	167,257		179,231	215,786	326,474	68	2,636 517	425,206.02
	2,033	8,511		111,667	134.074	225,757	ĺ	482.042	41,291.20
161,117	41,795	1,942,208	598,594	506.777	674,008	3,527,821	1660	31,040,559	
87.272.04	3,700.56	197.362.82	95,189.16	74,900.04	45,790.85	198,287.23	2.805.96		4.389.273.34

# 

	1943	1944	Increase	Decrease
KIND	POUNDS	POUNDS	POUNDS	POUNDS
Herring	2,754,233	3,045,883	291,650	
Whitefish	4,186,031	4,204,163	18,132	
Trout	3,237,130	2,950,430		286,700
Pike	1,139,862	1,073,388		66,474
Pickerel (Blue)	9,660,949	9,413,269		247,680
Pickerel (Dore)	2,512,033	2,899,446	387,413	
Sturgeon	134,936	161,117	26,181	
Eels	36,930	41,795	4,865	
Perch	1,346,136	1,942,208	596,072	
Tullibee	609,386	598,594		10,792
Catfish	425,129	506,777	81,648	
Carp	756,066	674,008		82,058
Mixed and Coarse	3,794,744	3,527,821		266,923
Cavaire	1,772	1,660		112
	30,595,337	31,040,559	1,405,961	960,739
Net Increase			445,222	

# Thirty-Ninth Annual Report

OF THE

# Department of Game and Fisheries

1945 - 1946

PRINTED BY ORDER OF THE LEGISLATIVE ASSEMBLY OF ONTARIO SESSIONAL NO. 41, 1948



#### TORONTO

Printed and published by Baptist Johnston, Printer to the King's Most Excellent Majesty

# TO HIS HONOUR,

The Lieutenant-Governor of the Province of Ontario.

## MAY IT PLEASE YOUR HONOUR:

The undersigned begs respectfully to present to Your Honour, the Thirty-Ninth Annual Report of the Department of Game and Fisheries for the year ending March 31, 1946.

H. R. SCOTT, Minister.

#### THIRTY-NINTH ANNUAL REPORT

OF THE

# Department of Game and Fisheries

Following is the Thirty-ninth Annual Report of the Department of Game and Fisheries, in which is included data and information concerning administration of the services assigned to this Department, together with various statistics for the fiscal year ended March 31st, 1946, comparative tables and other information relative to our operations which may prove interesting and of value to those concerned.

#### PREAMBLE

During the twelve months under review, we witnessed the cessation of those hostilities the prosecution of which to a successful termination had been the first and foremost consideration of all of us over a period of practically six years. The resources of the nation were fully utilized and proved their effectiveness in war. They have a peacetime value which, if properly appraised and used efficiently, will secure for the nation an economic future rich in material values, and worthy of the sacrifices which have been made.

In this scheme of reconstruction and re-appraisal, the Fish and Wildlife component of our natural resources will assume a new value, as they constitute an important item in our total economy. As a recreational medium they have a value which in a great measure surpasses their material worth. Fishing and hunting are sports of the masses as well as the classes, and as an asset to national health they occupy a ranking position.

Characteristic of our way of life is our love of the out-of-doors. The recreational possibilities of forest and field and lake and stream are an inspiration and invitation to a freer and fuller life, while the character building influence of the outdoor environment is an important factor in the development of good citizenship.

The men who fought to protect this heritage and make it secure for posterity have, by their courage and valour, firmly established the great outdoors as a memorial to themselves. It is symbolic of peace and the finer things of life. Let us resolve to maintain it as such, remembering always that our freedom to enjoy it has been re-established at a heavy cost.

#### FINANCIAL

The financial operations of the Department during the fiscal year under review are detailed in the presentation which follows.

The various sources of revenue and the receipts derived therefrom, as well as the expenditures involved in the provision of services, are outlined in the following statement.

Careful scrutiny of these tables and the subsequent reference thereto will indicate a very noticeable expansion of the interest which is now being displayed by sportsmen in the beneficial recreation which emanates from participation in the twin sports of angling and hunting which are available in the Province of Ontario.

CIABLETS

# REVENUE FOR THE FISCAL YEAR ENDING MARCH 31st, 1946

GAME—		
Licences—		
Trapping	\$ 54,584.15	
Non-resident Hunting	218,855.00	
Deer	166,635.20	
Moose	7,051.00	
Gun	110,252.51	
Dog	9,512.70	
Fur Dealers	36,914.00	
Fur Farmers	7,189.00	
Tanners	160.00	
Cold Storage	246.00	
	\$611,399.56	
Royalty on Furs	223,183 95	
FISHERIES—		\$834,583.51
Licences—		
Fishing (Commercial)	\$ 90,541.00	
Angling	605,320.60	
	\$695,861.60	
Royalty on Commercial Fish	12,563.97	
2007 011 00111110101111 2 1011	12,000.51	
GENUDAY.		\$708,425.57
GENERAL—		
Licences—		
Tourist Camps	\$ 8,435.00	
Guides	9,062.00	
Fines (Enforcement of Act)	34,398.54	
Costs Collected (Enforcement of Act)	810.12	
Sales, Confiscated Articles	49,186.62	
Rent	3,103.50	
Commission retained by Province on sale of licences	2,773.76	
Miscellaneous	387.04	
		\$108,156.58
		\$1,651,165.66

The amount of total revenue derived during the year, viz:—\$1,651,165.66, was far in excess of the total receipts collected in any previous year. This total represents an increase of \$458,131.94 over the amount accruing from our operation during the previous fiscal year, ending March 31st, 1945, or an increase of practically forty per cent. The largest contribution to this important increase is attributable to the greater revenue derived from the sale of non-resident licences, both hunting and angling, which in the year under review amounted to \$824,175.60 or practically fifty per cent of our total revenue for this fiscal year, and which exceeded, by the sum of \$296,512.30 the revenue which was secured from the sale of these non-resident licences in the preceding year.

The following are additional comments and comparisons with reference to other sources of revenue to which important portions of this increase can be assigned, viz:—

From the sale of various types of resident hunting licences we received during 1945-46 a total of \$293,451.41, an increase of \$84,420.92 as compared with the revenue derived from this source in 1944-45.

In 1945-46 we collected a total of \$314,682.10 from the sale of trappers' licences and fur dealers' licences and including royalties payable on the pelts of fur-bearing animals taken in the Province, an increase over the revenue collected from similar sources in 1944-45 of \$36,467.80.

The operations of the Enforcement Service were responsible for the collection in 1945-46 of the sum of \$84,395.28 from penalties imposed and the sale of confiscated articles which resulted from the apprehension, prosecution and conviction of offenders, which amount was \$32,407.30 in excess of the revenue derived from these sources in the preceding year.

The following comparative table which outlines details of the various types of hunting and angling licences which were sold in the two years 1944-45 and 1945-46 may be of interest:

#### NON-RESIDENT HUNTING LICENCES

·	1944-45	1945-46
Small Game	1,949	3,281
Deer	2,385	4,430
General	653	1,426
Bear (Spring Season)	181	314
RESIDENT HUNTING LICEN	CES	
Deer	31,470	45,259
Deer (Camp)	398	481
Deer (Farmers')	6,786	8,190
Moose	875	1,282
Resident Hunting (Gun)	92,847	131,468
NON-RESIDENT ANGLING LICE	ENCES	
Individual (Seasonal)	. 36,907	57,877
Individual (Three-Day)		33,261
Family	. 18,859	33,415
Manitoba Resident	817	1,031
Boys' Camp	. 18	33

The total number of these licences issued in 1945-46 was 321,748 of which number 135,068 were secured by non-resident hunters and anglers who visited Ontario to participate in the pastime and recreation thus available.

Expenditures during the year, including both ordinary and capital, amounted to a grand total of \$748,661.36, which exceeded by \$109,896.09 the amount expended in the previous year. The major proportion of this additional expenditure, \$83,736.45, was accounted for by increased appropriations provided for the Biological and Fish Culture Service and for the Enforcement Service.

Details of the various services on which these expenditures were made are specified in the following table:

## EXPENDITURE FOR THE FISCAL YEAR ENDING MARCH 31st, 1946

ORDINARY—
Main Office\$ 59,908.70
General
Enforcement
Game Animals and Birds 21,002.27
Macdiarmid
Biological and Fish Culture
Grants
Wolf Bounty
Bear Bounty
Total Ordinary\$740,427.06
CAPITAL 8,234,30
Grand Total

The amount provided for grants, \$5,400.00, was distributed as follows:

- (a) \$2,500.00 to the Ontario Fur Breeders' Association, Inc., to assist their efforts towards the improvement of Fur Farming practice throughout the Province;
- (b) \$500.00 for expenditure in connection with the work of Fisheries Research under the supervision of Professor W. J. K. Harkness;
- (c) \$500.00 to the Ontario Federation of Anglers and Hunters for expenditure in connection with the educational programme of the Federation regarding the importance of compliance by sportsmen with the provisions of the legislative enactments or Regulations which are administered by the Department; and,
- (d) \$1,500.00 to the estate of the late Jack Miner; \$300.00 to Mr. Thomas N. Jones; and \$100.00 to Miss Edith L. Marsh, in appreciation of their services in providing sanctuary for migratory and native birds on their properties located respectively in the Counties of Essex, Elgin and Grey.

The table next following shows revenue, expenditures and the surplus accruing from our operations annually over a period of the past ten years:

	REVENUE	EXPENDITURE (Ordinary and Capital)	SURPLUS
1936-37	\$ 782,217.63	\$474,128.95	\$318,088.68
1937-38	866,558.19	563,938.33	302,619.86
1938-39	914,475.24	575,437.79	339,037.45
1939-40	1,015,350.82	568,198.55	447,152.27
1940-41	984,800.69	512,834.70	471,965.99
1941-42	1,183,269.29	576,762.26	606,507.03
1942-43	962,350.89	574,732.49	387,618.40
1943-44	975,072.60	574,525.05	400,547.55
1944-45	1,193,033.72	638,765.27	554,268.45
1945-46	1,651,165.66	748,661.36	902,504.30

It will be observed that the surplus of revenue over expenditures in 1945-46, viz:—\$902,504.30, was far greater than that in any year during this particular period, and it was never exceeded in any year previous thereto.

#### GAME

The comments included in the following summary of conditions applicable to game birds and animals insofar as they relate to white-tailed deer, moose, caribou, black bear and partridge are generalizations on the status of these respective species based on the results of a questionnaire distributed by the Royal Ontario Museum of Zoology:

WHITE-TAILED DEER:—There are now no areas in Ontario south of Patricia district where deer are not found. Our principal deer country is still a broad belt from Sault Ste. Marie to Arnprior with an important extension west of Lake Superior. Northward deer are scarce. The hunting pressure on deer is constantly increasing.

MOOSE:—Moose are scarce or decreasing in several important portions of their Ontario range, but there still remain areas of abundance. The trend, downward, especially west of Lake Superior, is causing some concern. Algonquin Park remains the centre of moose abundance south of the French and Mattawa Rivers. Northward, moose are scattered throughout the country. The Lake Superior, Lake Nipigon and Albany River regions are centres of abundance.

CARIBOU:—The caribou is scarce in those parts of the Province where it still remains, but has not lost ground recently.

ELK:—Animals of this species which exist in Ontario at this time are the results of experiments to re-establish elk in Ontario undertaken by the Department in the years immediately preceding the period covered by this report. They are to be found only in the areas which have been re-stocked and there only in limited numbers. These restocked areas include portions of the Counties of Bruce, Simcoe and Peterborough, as well as the districts of Algoma, Nipissing, Sudbury and Thunder Bay. Improvement in conditions applicable thereto is not very noticeable. The hunting of elk is prohibited under the provisions of the Game and Fisheries Act throughout the entire year.

BLACK BEAR:—Black bear have increased to a remarkable extent and are usually abundant throughout the Province except in the densely settled portion.

RABBITS:—The prevalence of rabbits provides sportsmen throughout Ontario with a large percentage of the recreation they secure from hunting during the latter part of the fall season, and with practically all of the hunting which is available throughout the winter season. Three species of rabbits are to be found in this Province, viz:—

- (a) The cotton-tail rabbit, which is the source of enjoyable hunting throughout the southern counties;
- (b) European hare (or jack-rabbit). This species has a general distribution throughout the southwestern part of the Province and in some of the eastern counties.
- (c) Snow-shoe rabbit. Reports received in the Department would warrant the assumption that this species is fairly plentiful in the northern portion of the Province and in addition in some of the northern and eastern sections of southern Ontario.

While there are some areas from which decreased numbers are reported, generally speaking, conditions with reference to the species throughout continued to be quite favourable.

PARTRIDGE:—Three species of native partridge are well distributed in settled portions of Ontario, viz:—spruce grouse, ruffed grouse and sharp-tailed grouse. Conditions of abundance of these game birds are briefly as follows:

SPRUCE GROUSE:—Spruce grouse are present but scarce throughout the coniferous forest of northern Ontario.

RUFFED GROUSE:—Except in a few localities where recovery has already commenced, the Ontario grouse population is at the lowest point of its natural periodic cycle. The population is repeating exactly the pattern of ten years ago, and there is no reason to doubt that recovery will follow in due course.

SHARP-TAILED GROUSE:—Sharp-tailed grouse, found in northern and western Ontario, are at a low ebb in their cycle of numbers. A small number of this species has become established in the area east of Sault Ste. Marie.

HUNGARIAN PARTRIDGE:—This species is not native to Ontario. Their existence in the Province has resulted from the planting in certain sections of birds imported into the Province. They are to be found principally in the southwestern counties of Essex and Kent, and in the Counties of Dundas, Russell and Stormont in southeastern Ontario.

PHEASANTS:—During the past ten years efforts to re-stock this species in suitable portions of the Province have varied from the practice which was prevalent earlier. Previously it had been the policy to supply settings of eggs from the Bird Farm operated by the Department to those who were sufficiently interested in the work to hatch the eggs, raise the product thereof, and release the birds in localities in which environment suitable to the welfare of the birds prevailed. Today and for the past few years the Bird Farms have been operated under private control, and the poults produced have been obtained by the Department from the operators. The birds thus provided have been liberated under the supervision of Departmental officers principally in the townships established as Regulated Game Preserve Areas and in the Counties of Essex and Kent. Details of this distribution as carried out during the year now under review are in accordance with the following statistical table:

COUNTY	TOWNSHIP	POULTS	AD	ULTS	TOTAL
	*		HENS	COCKS	
Essex	General	1245			1245
Kent	General	1320			1320
Lambton	Plympton	210			210
Elgin	S. Dorchester	135			
	Bayham	165			
	Malahide	195			
	Dunwich	180			
	Aldborough	180			
	Total				855
Middlesex	General	30			
	Westminster	255			
	Metcalfe	90			
	Total				375
Norfolk	Middleton	165			
	N. Walsingham	135			
	Townsend	120	80	16	
	Windham	210			
	Total				726
Oxford	East Oxford	165	80	16	
	Dereham	210			
	Total-				471

COUNTY	TOWNSHIP	POULTS	AI HENS	OULTS COCKS	TOTAL
Brant	Dumfries	165	80	16	4
	Burford	180	80	. 16	
	Onondaga	165			
	Total				702
Wellington	Puslinch	120	85	17	
	Total				222
Haldimand	Dunn	135			
	Cayuga S.	105			
	Canboro	105			
	Walpole	225			
	Oneida	135			
	Rainham .	105			
	Seneca	135			
	Cayuga N.	105			
	Moulton	150			
,	Sherbrooke	90			
	Total				129
Welland	Wainfleet	210			
• ş	Humberstone	210			
	Crowland	210			
	Pelham	240			
	Thorold	270			
	Stamford	315			
	Bertie	170			
Ť	Willoughby Total	255		•	188
Lincoln	Grimsby North	180			
	Grimsby South	180			
	Clinton	270			
	Caistor	150			
<b>\$</b>	Gainsboro	255			
	Louth	345			
	Grantham	300			
	Niagara	300			
	Total				198
Halton	Trafalgar	405			
	Nelson	375			
	Esquesing	180			
	Nassagawaya Total				1098
Wentworth	General	45			
	Ancaster	315			
	Barton	255			
	Saltfleet	270			
	Flamboro W.	150			
	Flamboro E.	105			
	Beverley	135			
	Binbrook	105			
	Glanford	105			
	Total				148

Peel -	Toronto	450			
	Chinguacousy	450			
	Albion	135			
	Caledon	135			
	Toronto Gore	120			
	Total				1290
York	Scarboro	255	95	19	
	Markham	330	95	3 <b>5</b>	
	Whitchurch	240	95	19	
	Vaughan	555			
	King	255			
	N. Gwillimbury	240			
	Total		-		2233
Ontario	Pickering	330	105	21	
Ontario	East Whitby	135	100	21	
	West Whitby	135			
	Total				726
Prince Edward	South Marysburg	90			
	Total				90
Durham	General	50			
	Total				50
Bird Dog Trials	Miscellaneous	********	50	50	
	York County	50			
	Middlesex County	100			
	Essex County	50			
	Welland County	50			
	Lincoln County Total				400
MISCELLANEOUS					
(22 not released)		42			42
	SUMMARY: Adult		1,070		
	Poult	s released	17,595		
	Total	released	18,665		

The Regulations which established the open season for pheasants in 1945 provided the following conditions, viz:—

Shooting was permitted between the hours of 8.00 a.m. and 5.00 p.m., on October 24th, 26th and 27th, in the following regulated townships:

Caistor, Clinton, Gainsboro, Grantham, Grimsby North, Grimsby South, Louth and Niagara in Lincoln County; and

Bertie, Crowland, Humberstone, Pelham, Stamford, Thorold, Wainfleet and Willoughby in Welland County.

Shooting was permitted between the hours of 8.00 a.m. and 5.00 p.m., on October 26th and 27th, in the following regulated townships:

Marysburgh South in Prince Edward County;

Pickering, Whitby and Whitby East in Ontario County;

Gwillimbury North, King, Markham, Scarborough, Vaughan and Whitchurch in York County:

Albion, Caledon, Chinguacousy, Toronto (part) and Toronto Gore in Peel County:

Esquesing, Nassagawaya, Nelson and Trafalgar in Halton County;

Puslinch in Wellington County;

Ancaster, Barton, Beverley, Binbrook, Flamboro East, Flamboro West, Glan-

ford and Saltfleet in Wentworth County;

Canboro, Cayuga North, Cayuga South, Dunn, Moulton, Oneida, Rainham, Seneca, Sherbrooke and Walpole in Haldimand County;

Burford, Dumfries South and Onondaga in Brant County:

Middleton, Walsingham North and Windham in Norfolk County;

Dereham and Oxford East in Oxford County;

Bayham, Dorchester South and Dunwich in Elgin County;

Metcalfe and Westminster (part) in Middlesex County; and

Plympton in Lambton County.

Shooting was permitted between the hours of 8.00 a.m. and 5.00 p.m. on October 27th, in the Township of Townsend in Norfolk County.

Hunters participating in the pheasant shoot provided in the townships enumerated above were required to provide themselves with the special licence issued by the respective township authorities in addition to the regular hunting licence demanded by the provisions of the Game and Fisheries Act; and the bag limit provided by the Regulations was three cock birds per day.

Shooting was permitted between the hours of 8.00 a.m. and 5.00 p.m. on November 1st, 2nd and 3rd in the Counties of Essex and Kent and the bag limit in this case was also three cock birds per day.

Shooting was permitted between the hours of 8.00 a.m. and 5.00 p.m. on November 1st and 2nd, on Pelee Island. Those hunting pheasants during this open season on Pelee Island were required to secure the special hunting licence issued by the Municipal authorities in addition to the hunting licence issued by the Department. The bag limit was five birds per day, not less than four of which were to be cocks. It was further provided for the protection of these birds that hunting and the discharge of fire arms would be prohibited on Pelee Island during the period from 5.00 p.m., October 24th, to 8.00 a.m., November 1st, or during the week previous to this open season for the taking of pheasants.

QUAIL:—Birds of this species are quite scarce, nor do reports indicate any improvement in conditions as they have existed in more recent years. They are limited, with some minor exceptions, to the Counties of Essex, Kent and Lambton. No provision was made for any open season in the fall of 1945.

DUCKS:—General conditions applicable to wild ducks were not altogether satisfactory and as a result there was some evident diminution of their numbers and decreased prevalence in certain areas throughout the Province in which, based on the experience of previous seasons, it may have been anticipated that more satisfactory hunting conditions might have prevailed. There were, of course, various sections in the southern portion of the Province in which quite favourable conditions for the successful hunting of wild ducks did prevail. Notwithstanding this apparent deterioration, the sport provided by the hunting of this variety of our migratory waterfowl population continued

to attract the attention of hunters who derived from their participation therein a substantial proportion of the pleasure and healthful recreation which accrues from the pursuit of game. The legislation which provides protection for waterfowl is a Federal Act, and the regulations which apply to govern this division of hunting are provided under the authority of this legislation, viz:—The Migratory Birds Convention Act, or "An Act Respecting a Certain Convention Between His Majesty and the United States of America for the Protection of Migratory Birds in Canada and the United States."

The Regulations which were then in effect provided an open season for the hunting of ducks in the fall of 1945 extending from September 15th to December 5th in the northern zone, and from September 25th to December 15th in the southern zone. The taking of eider ducks was allowed only in the territory lying north of the Quebec-Cochrane-Winnipeg line of the Canadian National Railway, during the period from September 15th to November 15th. The bag limits for ducks were 15 per day (increased from 12 per day in 1944) and 150 per season, with a new proviso to the effect that not more than one wood duck could be included in the daily bag limit.

GEESE:—There are but few sections in Ontario in which goose shooting is available, the principal of which are located along the shores of James Bay in the far north, and in the extreme southwestern portion of the Province, including the Counties of Essex, Kent and Elgin. As is the case concerning ducks they are protected under the provisions of the Migratory Birds Convention Act and the Regulations which are thereunder provided. The variety—Brant—is provided the protection of an entire close season, and specimens of this variety are observed very infrequently in Ontario.

The periods of open season were similar to those provided in the case of ducks, except in the Counties of Essex, Kent and Elgin in which section the open season extended from November 1st to January 10th. Bag limits were five per day and 50 per season.

WOODCOCK:—As a general rule this species is not plentiful, and it would appear from reports which have been received that their occurrence in numbers sufficient for hunting purposes is restricted to a few scattered areas.

In 1945 the open season provided by the Migratory Bird Regulations extended from October 1st to October 31st, with a bag limit of eight per day and 100 per season.

SNIPE:—This species is not plentiful. Areas in which satisfactory hunting conditions exist are scattered and restricted in extent.

The dividing line between the northern and southern zones is similar to that provided for ducks and geese. In the northern zone, the open season in 1945 extended from September 15th to November 15th, and in the south, from October 1st to November 30th.

Bag limits were eight per day and 50 for the season.

PLOVER:—Conditions are not favourable, and improvement is limited. Hunting of this species was not permitted at any time during the period under review. This complete protection, in accordance with the Migratory Birds Convention Act and Regulations, would appear to be essential if improvement is to be effected.

ADDITIONAL INFORMATION:—Regulations were promulgated to provide special open seasons in accordance with the following details:—

#### DEER:-

- (i) In those portions of Ontario lying south of the French and Mattawa Rivers and Lake Nipissing, as defined in clauses (dd) and (ddd) of Section 7 of The Game and Fisheries Act, the open season for deer in 1945 extended from November 5th to November 27th.
- (ii) In that portion of the County of Carleton lying west of the Rideau River there was an open season for deer in 1945 extending from November 5th to November 27th.

- (iii) In the Counties of Grey, Bruce and Huron there was an open season for deer in 1945 extending from November 19th to November 24th. The use of dogs for hunting deer during this open season in these counties was prohibited.
- (iv) At the request of the various Municipal Councils concerned, the hunting of deer was permitted in 1945 in certain townships in counties in which these animals are protected throughout the year in accordance with the provisions of clause (d) of Section 7 of the Game and Fisheries Act, as follows:

On November 27th, 28th, 29th and 30th, in the Townships of Ellice, Logan and North Easthope in Perth County; the Townships of Blandford and Blenheim in Oxford County; the Township of Wilmot in Waterloo County; and the Township of Moulton in Haldimand County.

On November 21st, 22nd, 23rd and 24th in the Townships of Esquesing, Nassagaweya and Nelson in Halton County; and the Township of Erin in Wellington County; and

On November 19th, 20th, 21st, 22nd, 23rd and 24th in the Townships of Matilda, Mountain and Williamsburg in Dundas County.

In connection with the hunting of deer in these several townships, it was stipulated that only shotguns, either buck-shot or S.S.G. shells as ammunition could be used; that the use of dogs was not permitted; that hunters could each take one deer, either buck or doe, over the age of one year; that special licences to be secured from the respective township clerks, were necessary; and that it was unlawful for hunters who had previously hunted deer in other parts of Ontario in 1945 to hunt deer in these townships.

MOOSE:—For the taking of moose in 1945 during the period from October 15th to October 31st in that portion of Ontario described in sub-clause (1) of clause (b) of Section 7 of The Game and Fisheries Act and in the following portion of the area defined in sub-clause (ii) of clause (b) of Section 7 of The Game and Fisheries Act, viz:

Bounded on the north by the main trans-continental line of the Canadian National Railway, commencing at McIntosh, thence easterly to Superior Junction; thence southeasterly from Superior Junction along the line of the Superior Junction-Fort William branch of the Canadian National Railway to Fort William; thence southwesterly from Fort William along the north shore of Lake Superior to the international boundary at the mouth of the Pigeon River, thence westerly along the international boundary from the mouth of the Pigeon River to the westerly boundary of the District of Thunder Bay, thence northerly along the westerly boundary of the District of Thunder Bay to the southerly boundary of the District of Kenora; thence westerly along the southerly boundary of the District of Kenora to the Base Line east of Britton Lake; thence northerly along the aforesaid Base Line to the First Base Line, thence westerly along the First Base Line to the easterly shore of Dryberry Lake, thence northerly along the easterly shore of Dryberry Lake and the easterly boundary of the Lake of the Woods Crown Game Preserve to Edison on the line of the C.P.R., thence northerly along the easterly shore of Cobble Lake to McIntosh, the point of commencement.

For the taking of moose in 1945 during the period from November 19th to November 27th in the Townships of Alice, Buchanan, Burns, Clara, Fraser, Head, Maria, McKay, Petawawa, Richards, Rolph and Wylie in Renfrew County.

PARTRIDGE:—For the taking of partridge in 1945 during the period from October 6th to 13th, with a bag limit of five birds per day and twenty birds for the season in that portion of Ontario lying north and east of and including the Counties of Huron, Wellington (excepting Puslinch Township), Dufferin, Simcoe and Ontario (excepting the Townships of Pickering, Whitby and Whitby East), and south of the French and Mattawa Rivers and Lake Nipissing (excepting the Counties of Renfrew, Carleton, Russell, and Prescott), and in that portion of Ontario lying north and west of the French and Mattawa Rivers and Lake Nipissing and east of the westerly boundary of the Districts of Algoma and Cochrane.

SQUIRRELS:—For the taking of black and grey squirrels in 1945, on November 16th and 17th, with a bag limit of five per day, in that portion of Ontario lying south of the French and Mattawa Rivers and Lake Nipissing.

#### **FUR-BEARING ANIMALS**

From information which was received in the Department from various sources the following summary has been prepared with reference to conditions respecting such species of fur bearers which are known to exist in the Province.

BEAVER:—Continued to be quite plentiful throughout a large percentage of the area within the borders of Ontario, though they are undoubtedly extremely scarce in many of the southern counties, due to an entire lack of suitable environment for the development of this species. Due to the satisfactory conditions which prevailed it was considered necessary and desirable to provide an open season for the trapping of beaver during 1945, from December 1st to December 21st, in that portion of Ontario described as follows, viz:—

Lying north and west of the French and Mattawa Rivers and Lake Nipissing,—
EXCEPT the District of Rainy River and that portion of the District of
Kenora lying south of the main line of the Canadian National Railway
running east from the Manitoba boundary to Superior Junction, and west of
the line of the Canadian National Railway running southeasterly from
Superior Junction to a point where it crosses the easterly boundary of the
District of Kenora in the vicinity of Reba and the easterly boundary of the
District of Kenora south from Reba to the boundary between the Districts
of Kenora and Rainy River,

and in the Districts of Manitoulin and Parry Sound and that portion of the District of Nipissing lying south of the Mattawa River, and the Counties of Frontenac, Lanark and Renfrew and those portions of the Counties of Hastings and Lennox and Addington lying north of Highway No. 7.

Trappers were each allowed to take not more than ten beaver during this open season, and from returns submitted by trappers and fur-dealers, information has been compiled from which it is observed that the total catch exceeded by practically 4,500 pelts the total of such pelts which accrued from trapping operations during the previous open season, in 1944.

In addition to this general open season, a special open season for the taking of beaver in 1945 was provided effective in the Townships of Sullivan and Bentinck in Grey County, during the period from November 18th to December 1st. In this particular instance trapping was restricted to trappers and farmers resident in the area. Each individual so trapping was restricted to a catch of not more than ten beaver, and the pelts so taken were required to be delivered to the Department for ultimate disposal on behalf of the persons submitting the same.

On reference to a subsequent table, it will be noted that some 42,553 beaver were taken in Ontario during these periods of open season, and it has been estimated that these pelts were worth \$2,160,841.34 to the trappers concerned, which is thirty per cent of the total value of the entire fur catch during the year covered by this report.

FISHER:—While the total number of such pelts taken during the open season shows an increase of practically thirty per cent as compared with the catch of the previous season, it would be difficult to justify the assumption that such increase was attributable to any extensive improvement in conditions as they apply to this species. Their numbers are still extremely scarce and there are few sections in which they have been observed.

FOX:—These animals are sufficiently plentiful to be considered as a nuisance in many sections, particularly in southern Ontario. Their abundance is detrimental to the successful raising of domestic poultry, and is also a menace to the efforts of the Department for the establishment in suitable areas and the protection of the more

desirable species of game birds, to which we have been devoting a considerable portion of our time and energy.

While the value of fox pelts taken during the season showed a large decrease as compared with the price which was secured for fox pelts taken during the previous season, reference to the comparative table which appears later on in this report will show that the number of foxes taken in 1945-46 varies but slightly from the number taken in 1944-45.

LYNX:—This species continues to be extremely scarce. There has been no increase in the number taken and no improvement has been reported from any section. These animals are not protected by any closed season and they may be taken at any time during the trapping season.

MARTEN:—Here again, as in the case of fisher and lynx, we find a species which is quite scarce, and while the catch in 1945-46 exceeded that of 1944-45 by more than sixty per cent, it may be remarked that the total reported as having been taken, viz., 2,727, is quite meagre, and this increase should not be construed as an improvement to that extent.

MINK:—This species continues to be fairly plentiful and is available in many sections of the Province. The financial compensation derived by trappers from the sale of these pelts constitutes a considerable portion of their revenue. It has been computed from information which has been supplied to the Department that the value of mink pelts taken by trappers represented twenty-two per cent of the value of the entire fur catch resulting from trapping operations during the season which prevailed in the period reviewed in this report.

MUSKRAT:—Conditions applicable to muskrats continued to be favourable throughout most of the Province. There are, of course, areas in which environment suitable to the propagation and development of this species does not exist with the result that in these sections their numbers are very limited and trapping is, therefore, restricted. It has been estimated that at least thirty per cent of the total value of the entire fur catch of 1945-46 was attributable to the sale of muskrats.

The open season for the taking of muskrats is provided by Regulation, and while this open season, due to varying climatic conditions which require varying periods in different sections, generally speaking commences during the latter part of one fiscal year and finishes during the early part of the succeeding fiscal year, it may be desirable in accordance with the practice which was instituted in the previous Annual Report to record the open season which prevailed for muskrat, and details of the areas and periods of open season applicable thereto as provided in 1945 are appended hereto:

County or District	From	То
Brant	March 6th	March 30th
Bruce	March 17th	April 2nd
Carleton	March 17th	April 10th
Dufferin	March 6th	March 30th
Dundas	March 12th	April 5th
Durham	March 12th	April 5th
Elgin	March 6th	March 25th
Essex	March 5th	March 25th
(x) Frontenac (S)	March 12th	April 5th

(x) Frontenac (N)

Glengarry

Grenville

March 17th

March 12th

March 12th

April

April

April

10th

5th

5th

Period of Open Season

	County or District	From	То
	Grey	March 17th	April 2nd
	Haldimand	March 6th	March 25th
	Haliburton	March 21st	April 10th
	Halton	March 6th	March 30th
(x)	Hastings (S)	March 12th	April 5th
	Hastings (N)	March 17th	April 10th
` ′	Huron	March 6th	March 30th
	Kent	March 5th	March 25th
(x)	Lambton (S)	March 5th	March 30th
	Lambton (N)	March 6th	March 30th
()	Lanark	March 17th	April 10th
	Leeds	March 12th	April 5th
(x)	Lennox and Addington (S)	March 12th	April 5th
(x)	Lennox and Addington (N)	March 17th	April 10th
()	Lincoln	March 6th	March 25th
	Middlesex	March 6th	March 30th
	Muskoka	March 21st	April 10th
(v)	Nipissing (S)	March 21st	April 10th
(1)	Norfolk	March 6th	March 25th
	Northumberland	March 12th	April 5th
(v)	Ontario (S)	March 12th March 12th	-
	Ontario (N)		April 5th
(X)	` '	March 17th	April 10th
	Oxford	March 6th	March 30th
	Parry Sound	March 21st	April 10th
	Peel	March 6th	March 30th
(\	Perth	March 6th	March 30th
	Peterborough (S)	March 12th	April 5th
(X)	Peterborough (N)	March 17th	April 10th
	Prescott	March 17th	April 10th
	Prince Edward	March 12th	April 5th
	Renfrew	March 21st	April 10th
, ,	Russell	March 17th	April 10th
	Simcoe (S)	March 6th	March 30th
(X)	Simcoe (N)	March 17th	April 2nd
, ,	Stormont	March 12th	April 5th
	Victoria (S)	March 12th	April 5th
(x)	Victoria (N)	March 17th	April 10th
	Waterloo	March 6th	March 30th
	Welland	March 6th	March 25th
	Wellington	March 6th	March 30th
	Wentworth	March 6th	March 30th
	York	March 6th	March 30th
	Algoma	March 30th	May 1st
	Cochrane	March 30th	May 1st
	Kenora	March 30th	May 21st
	Manitoulin	March 30th	May 1st
(x)	Nipissing (N)	March 30th	May 1st
	Patricia	March 30th	May 21st
	Rainy River	March 30th	May 21st
	Sudbury	March 30th	May 1st
	Timiskaming	March 30th	May 1st
	Thunder Bay	March 30th	May 21st

(x) The dividing lines between the north and south sections of these counties and districts for the purpose of this open season are respectively as follows, viz:—

Highway No. 7 in the counties of Frontenac, Hastings, Lambton, Lennox and Addington, Peterborough and Victoria;

The Mattawa River in the District of Nipissing;

The north boundary of the townships of Brock and Scott in the County of Ontario; and

The north boundary of the townships of Tossorontio, Essa and Innisfil in the county of Simcoe.

OTTER:—This species is practically extinct in all of the southern counties and in the remainder of the Province conditions are none too favourable. It is possibly correct to state that there are but few signs which justify any anticipation of general improvement in the immediate future. There was an increased number taken during the open season which was provided.

RACCOON:—These animals exist only in the southern portion of Ontario. Unfavourable climatic conditions which prevail during the winter months are not conducive to the existence and development of raccoon in Northern Ontario. The catch during the 1945 season was about the same as that of the 1944 season. The demand for these pelts for commercial purposes is limited with the result that trappers derive little financial benefit from this product.

SKUNK:—It is difficult to conceive that any reliable trapper would willingly assume to undertake the discomfort and inconvenience which must arise from the skinning of a skunk carcass and the preparation of the pelt for the market for the meagre pittance which he receives from the sale of such pelt. From the standpoint of public ease and comfort these animals still continue to be too plentiful in many sections of this Province.

WEASEL:—Conditions applicable to this species vary in different sections. There was a noticeable increase in the catch during the period under review. As compared with the catch of the previous year this increase was in excess of forty per cent. Pelt values and market conditions are not sufficiently favourable to encourage intensive trapping operations in respect to weasel.

GENERAL:—In addition to the open seasons which were provided by special recommendation, as have been previously related, with reference to beaver and muskrat, open seasons are established with respect to other fur-baring animals in accordance with legislation included in the Game and Fisheries Act, as follows, viz:—

For fisher, fox, marten, mink and otter—from November 1st to February 28th; and

For raccoon-from November 1st to December 31st.

No protection in the way of a closed season is provided for lynx, skunk and weasel.

The following is a comparative table indicating the number of pelts of various species of fur-bearing animals taken in Ontario, and which were exported or dressed during the fiscal year 1945-46 and the three preceding years:—

	1942–43	1943-44	1944-45	1945-46
Bear	288	269	306	391
Beaver	24,194	32,266	38,070	42,553
Fisher	691	1,035	1,219	1,572
Fox (Cross)	2,649	4,350	3,691	3,834
Fox (Red)	31,297	53,205	43,185	43,685
Fox (Silver or Black)	265	499	449	658
Fox (White)	185	33	22	48
Lynx	552	646	938	880
Marten	1,417	1,610	1,701	2,727
Mink	60,331	52,289	43,098	42,866
Muskrat	642,810	683,450	782,220	730,586
Otter	3,557	3,964	4,650	5,047
Raccoon	13,420	20,664	17,381	17,106
Skunk	48,337	79,298	45,117	55,453
Weasel	<b>62,55</b> 3	67,461	62,859	88,768

Trappers again experienced a rather profitable season. Generally speaking the fur catch of all species was average or better, and according to information compiled in the Department there was a marked increase in the market value of many species, including beaver, marten, mink, muskrat, otter and weasel. This combination of favourable conditions naturally resulted in a large increase in the revenue derived by trappers from the marketing of the fur catch. It has been estimated that during the year this revenue to trappers amounted to a total of \$6,966,611.24. As compared with the returns secured from a similar source in the previous year this represents an increase of \$1,828,484.56 or in excess of thirty-five per cent. The pelts which contributed principally to this total were:

Beaver	\$2,160,841.34
Muskrat	2,148,122.84
Mink	1.518.313.72

From the remaining species previously mentioned in this paragraph and on the pelts of which there was a reported increase in market value, i.e., marten, otter and weasel, the returns accruing to trappers from the sale of such pelts amounted in all to a total of \$522.900.40.

In addition to the foregoing, it has been calculated from the records filed with the Department that during this fiscal year now reviewed, licensed fur farmers marketed the pelts of 62,635 mink, 26,998 silver or black fox, 941 blue fox and 138 cross fox, all of which had an estimated value to the vendors of \$3,013,401.26, an increase in value of \$1,161,316.77, or more than sixty per cent, as compared with the returns derived from a similar source in the previous year.

From the statistics previously analyzed it may be observed that the value of the fur marketed as a result of trapping and fur-farming operations amounted to the sum of \$9,980,012.50 or \$2,989,801.33 in excess of this figure for the previous year, or an increase in excess of forty per cent.

#### FUR FARMING

Despite the rising costs and scarcity of labour, feed and materials resulting from war-time conditions, the Fur Farmers of the Province realized the highest prices for their production known to the industry.

During the calendar year 1945, 1,304 Fur Farmer's Licences were issued, 1,093 of these being renewals and 211 were for newly established farms.

# SUMMARY OF BREEDING STOCK LICENSED FUR FARMS

## January 1st

	1943	1944	1945	1946
Beaver	21	23	44	30
Fisher	15	12	14	35
Cross Fox	68	58	64	47
Red Fox	96	123	106	110
Silver Black Fox	12,901	12,114	11,238	10,772
Blue Fox	595	838	955	1,283
Platinum Fox	125	729	1,514	2,382
White Marked Fox	1,379	2,030	2,629	3,115
Lynx	2	, <del></del>	2	1
Marten	15	20	17	16
Mink	29,345	33,971	36,912	50,677
Muskrat	52	· —	26	2
Raccoon	121	155	128	130
Skunk	2		1	3

## FUR FARMS IN ONTARIO

For the year 1945 by County or District

County or District	No.	County or District	No.	County or District	No.
Algoma	20	Kenora	20	Prince Edward	4
Brant	8	Kent	22	Rainy River	19
Bruce	<b>5</b> 3	Lambton	18	Renfrew	47
Carleton	25	Lanark	77	Russell	4
Cochrane	11	Leeds	12	Simcoe	
Dufferin	4	Lincoln	9	Stormont	4
Dundas	2	Manitoulin	18	Sudbury	8
Durham	10	Muskoka	11	Timiskaming	14
Elgin	15	Middlesex	50	Thunder Bay	89
Essex	12	Nipissing	6	Victoria	
Frontenac	21	Northumberland	4	Waterloo	39
Glengarry	3	Ontario	28	Welland	4
Grenville	8	Oxford	23	Wellington	32
Grey	82	Norfolk	11	Wentworth	41
Haldimand	17	Parry Sound	16	York	126
Haliburton	1	Peel	21	_	
Halton	22	Perth	50	Total	1,304
Hastings	8	Peterboro	6		
Huron	52	Prescott	4		

#### WOLF BOUNTY

The following is a comparative statement showing annual wolf bounty statistics for a period of five years ending with the fiscal year 1945-46.

	Timber	Brush	Pups	Total	Bounty & Expenses
For year ending Mar. 31, 1942	1,199	577	37	1,813	\$40,593.77
For year ending Mar. 31, 1943	935	497	32	1,464	30,606.62
For year ending Mar. 31, 1944	1,302	731	32	2,065	46,545.75
For year ending Mar. 31, 1945	1,321	665	12	1,998	45,993.58
For year ending Mar. 31, 1946	1,266	777 ·	30	2,073	44,999.87

The usual bounty of \$25.00 on a timber or brush wolf over three months of age and \$5.00 on a timber or brush wolf pup was paid by the Department for the destruction of these predators.

Although more wolves were taken during the last fiscal year than in any year since 1944, less money was expended on bounty. This is attributable to the fact that there were more wolves killed in the counties, and on which animals the Department pays only forty per cent of the bounty, the remaining sixty per cent being paid by the respective counties.

There was a total of 1,535 claims for bounty on 2,073 wolves, 20 of these claims involving 29 wolves were refused for various reasons. In addition, 12 claims for bounty on 21 wolves were pending at the end of the fiscal year and were carried forward to the next fiscal year for payment.

The following tabulation indicates the total number of wolves killed in each county and district and for which applications for payment of bounty were received:—

County	Timber	Brush	Pups	Total
Brant				
Bruce	17	22		39
Carleton		2		2
Durham		3		3
Essex		4	8	12
Frontenac	12	19	5	36
Grenville		8		8
Grey		4		4
Hastings	45	7		52
Huron	1	2		3
Kent		2	9	11
Lambton		7	5	12
Lanark	4	17		21
Leeds		2		2
Lennox & Addington	10	21		31
Norfolk		12		12
Northumberland		7		7
Peterborough	33	16		49
Renfrew	48	2		50
Simcoe	16	17		33
Victoria	3	41		44
Wellington				
York		5		5

Ontario	10	4		14
Welland	1	8		9
Halton		1		1
Dundas		1		1
Elgin		4		4
Peel		1		1
Total Counties	200	239	27	466
Districts				
Algoma	97	73		170
Cochrane	12	3		15
Haliburton	23	2		25
Kenora	235	110	1	346
Manitoulin	31	119	5	155
Muskoka	13	16		29
Nipissing	79	18		97
Parry Sound	65	6		71
Patricia	67	8		75
Rainy River	155	66		221
Sudbury	127	55		182
Timiskaming	15			15
Thunder Bay	166	85	5	256
Total Districts	1,085	561	11	1,657
GRAND TOTAL	1,285	800	38	2,123

On November 1st, 1942, the regulation which provided for the return to the applicant of wolf pelts which had been submitted to the Department to support claims for bounty was repealed. Since then the Department has made such pelts available to the Seamen's Fur Vests War Project for the manufacture into jackets for the use of personnel of the Naval Service and Merchant Marine.

From November 1st, 1942, until June 21st, 1945, or shortly after the cessation of hostilities in the European theatre, 4,628 wolf pelts were made available by the Department to this project.

Mr. Alexander D. Schatz, Chairman of the Ontario Division of the Seamen's Fur Vests War Project, passed for the Department's perusal his file of letters of appreciation and gratitude, received from Naval personnel for the gifts of fur vests. From reading this file, it was evident that the fur jackets produced by this organization were deeply appreciated by our fighting men and added greatly to their comfort and morale.

#### BEAR BOUNTY

In accordance with on Order-in-Council dated June 15th, 1943, the Department continued the payment of \$10.00 bounty to control the population of bears.

A total of 940 claims were filed with the Department for bounty on the 1,167 bears killed. However, 25 of these claims on 34 bears, were disallowed for failing to comply with the regulations.

A breakdown showing the number of bears killed in counties and districts follows:—

County or District	Number
Algoma	192
Bruce	
Cochrane	145
Frontenac	
Haliburton	32
Hastings	39
Kenora	31
Lennox and Addington	9
Manitoulin	
Muskoka	9
Nipissing	53
Parry Sound	90
Peterborough	
Rainy River	
Renfrew	<b>4</b> 3
Sudbury	148
Thunder Bay	53
Timiskaming	
Victoria	1
Total	1,167

#### TOURIST OUTFITTERS

In anticipation of a revival and substantial increase in the volume of the tourist trade following cessation of hostilities, there was much activity in the tourist industry. Established Outfitters were anxious to rehabilitate and enlarge their camps; camps closed during the war period were re-opened; non-residents seemed interested to invest capital in the industry and many members of the Canadian Armed Forces being demobilized, some of them former guides or woodsmen, contemplated the establishment of a commercial resort in their favourite locality as a means of re-establishing themselves in civilian life.

The continuing policy of according a priority to ex-servicemen for authorities to establish a new camp was a stimulating factor in the sale of licensed camps. During the year 34 camps changed ownership and property value increased materially.

Two hundred and fifty-four applications to establish camps were received, of which 65 were refused in the interest of conservation of fishing and hunting resources and the welfare of the tourist industry; at the end of the year, March 31st, 1946, 40 were deferred in favour of the soldier's preference or pending further consideration; and 149 permits were granted; but shortages in materials and supplies hampered erection of buildings or delayed completion.

Six hundred and thirty-four Tourist Outfitters' Camp Licences were issued, 42 authorizing the operation of new camps and 592 renewals. Five hundred and sixty-eight licences were issued at the resident fee of \$10.00 and 66 at the non-resident fee of \$25.00.

The following is a summary, by Districts, of Tourist Outfitters' Camp Licences which were issued during the year:—

District	Non-Resident	Resident	Total Licences
Algoma	16	71	87
Cochrane		6	6
Kenora	22	124	146
Manitoulin	3	55	58
Nipissing	7	87	94
Parry Sound	7	112	119
Patricia		4	4
Rainy River	3	29	32
Renfrew		13	13
Sudbury	5	46	51
Timiskaming		5	5
Thunder Bay	3	16	19
Total Licences Issued	66	568	634

#### **ENFORCEMENT**

The legislation and regulations assigned to this Department for administration, viz:—The Game and Fisheries Act and the Regulations provided thereunder, the Special Fishery Regulations for the Province of Ontario and the Migratory Birds Convention Act and Regulations, are necessary for the effective perpetuation of our fish and wild-life resources. They have been designed with a view to providing the greatest possible individual liberty consistent with the wise use of these resources. These laws and regulations are generally respected by a large majority of the residents of the Province and their observance has become more and more a passport to good sportsmanship. However, despite their simplicity, we still are confronted on occasion by the law-breaker and the poacher, the one who still continues to ignore legal restrictions and who thereby takes an unfair advantage of those who while hunting, fishing or trapping, make a sincere endeavour to comply with the restrictive provisions which govern.

Enforcement officers are keenly alert to this improper situation and are doing everything they possibly can to convince the violator of the error of his ways. While it is almost too much to anticipate that we can entirely eliminate this contingency, there is good reason to believe that through organized and united effort, we can do much to convince the careless and the thoughtless that compliance with the legislation and regulations which have been provided for the protection of our fish and wildlife natural resources is just as important as is a proper respect for other laws. Public opinion has a restraining influence over those who are tempted to break any law, while proper support will almost always ensure ultimate success.

A perusal of the laws and regulations will convince even the most skeptical that they form an important section of the programme which is being developed and which is necessary for the conservation of our fish and game, and that when appeals are made to the public to observe the laws and regulations, they are made from a desire to secure co-operation in the management of a valuable asset. Non-observance of these laws and regulations, however unimportant the details may seem, is unfair to that ever-increasing number of sportsmen and nature lovers who conscientiously obey the provisions and pursue their recreational pleasures from the highest standards of sportsmanship.

The Department maintains a staff of permanent field officers whose duty it is to enforce and secure observance of the provisions of this legislation and the regulations periodically adopted and for the proper enforcement of which this Department is responsible.

The services of this field staff are augmented by the assistance and co-operation of members of the Ontario Provincial Police Force and numerous seasonal overseers whose services are retained for the provision of more adequate patrol service along important waters during the spring and fall spawning periods as well as during the various fall hunting seasons.

That interested sportsmen are concerned in this branch of our activity is attested to by the fact that several hundred offer their services and are provided with appointments as Deputy Game and Fishery Wardens, who, as such, are authorized to assist our efforts to provide proper enforcement service.

While there will probably always be a number of necessary seizures and prosecutions, it is felt that this procedure, in minor cases, is perhaps not a desirable method of securing the desired observance of the Act and Regulations. It is probably true that many infractions result from a lapse to thoughtlessness as well as from a lack of knowledge concerning the real value of our wildlife heritage. With this in mind efforts have been made to acquaint the public with the economic and recreational value of these resources with the hope that the spread of knowledge which may result will encourage a better observance of the provisions.

Without the supervision of enforcement officers conditions would quite probably get out of control and as a result the interest of sportsmen would wane. The Game Warden is authorized under his appointment to act as an enforcement officer but it is essential that he should receive the co-operation of all in order to make a success of his work. If our game and fish are to be protected, all concerned should assume their share of the responsibility therefore.

During the fiscal year which is reviewed in this report, there were 1,856 cases in which seizures were made subsequent to infractions. These seizures were the result of action provided by,—

Overseersin	1685	cases,
Provincial Policein	11	cases,
Municipal Policein	10	cases,
Deputy Game Wardensin	42	cases,
Overseers and Deputy Game Wardensin	47	cases,
Overseers and Provincial Policein	48	cases,
Overseers and Municipal Policein	12	cases,
Provincial Police and Deputy Game Wardensin	1	case.

The following is a summary of the articles which were seized in these cases, viz:—

Live Animals and Birdsin	5	00000
Birls, game animals and meatin		
biris, game animais and meat	199	cases
Fire-arms and ammunitionin		
Fishin	183	cases
Nets and fishing gearin	141	cases
Angling equipmentin	116	cases
Pelts and hidesin	311	cases
Traps and trapping equipmentin	191	cases
Water-craftin		
Outboard motorsin	7	cases
Motor vehiclesin		
Flashlights and lanternsin	39	cases
Spearsin	63	cases
Spearsin Miscellaneous articlesin	103	cases

The combined total of the articles enumerated in the preceding tabulation exceeds the number of cases in which seizure of articles were made, but this apparent discrepancy may be explained by the fact that there are many seizure reports submitted to the Department in which articles in more than one of these classifications are included, e.g., fire-arms and game, traps and pelts, fish and fishing gear, as well as other combinations.

An examination of our records reveals that the fire-arms confiscated during the year consisted of 499 small calibre rifles, such as .22's and .25's; 184 heavy calibre rifles, such as .250-.3000, .25-.35, .270, .30, .300, .303, .30-30, .30-40, .32, .32-40, .348, .35, .351, .38, .38-40, .38-.55, .405, .40-82, .44, .44-.40, .57, 6.5 m.m. and 8 m.m.; one revolver; 27 air guns; 110 single-barrel shot-guns; 80 double-barrel shot-guns; 43 repeating shot-guns; 9 automatic shot-guns; and 4 .22-410 combination rifle and shot-guns.

Details of confiscated pelts of fur-bearing animals are as follows:-

Beaver	908
Fisher	10
Fox	112
Lynx	2
Mink	59
Muskrat	816
Otter	20
Raccoon	69
Skunk	6
Squirrel	37
Weasel	28
Deer and Moose Hides	39

Subsequent to the actual seizures, informations were laid and presecution of the various charges were undertaken in 1,486 cases. Convictions were registered and penalties imposed by the presiding Magistrates in 1,420 of these cases. The charges were dismissed, principally due to the lack of evidence, in 58 cases, and in the remaining 8 cases the charges were withdrawn.

An analysis of the 1,420 cases in which convictions were registered shows that in 1,391 of these actions the charges were laid by Game and Fisheries Officers, in 25 actions by Provincial Police Constables, and in the remaining 4 actions by Overseers and Constables in co-operation with each other.

In those cases in which the charges were dismissed, 58, and in which the charges were withdrawn, 8, Game and Fisheries Officers were responsible for the charges which had been laid.

#### . REPORT OF THE FISH CULTURE BRANCH

One of Ontario's chief assets is its fisheries, and the maintenance and development of game and commercial fishing interests, in a practical manner, is the primary function of the Department.

Fisheries management is a complex undertaking, involving different species, spawning seasons and habitat preferences. It is obvious therefore that physical, chemical and biological facts of lake and streams must be known for intelligent action. In other words, an inventory of the aquatic resources of our lakes and streams is basic to any well-planned fish cultural programme.

Canada has the distinction of having been the pioneer in North America in rearing fish as a government enterprise. The first fry hatched from artificially fertilized eggs were produced in 1858, and fish culture was established as a Dominion Government service in 1867. For many years this service was conducted, purely, under Dominion auspices. In 1909, an experiment was conducted at Brantford, Ontario, on bass rearing;

it was so successful that bass ponds were permanently established at Mount Pleasant, near Brantford, in 1911. Progressively, from year to year, additional rearing facilities for other species were provided. On July 1, 1926, the Province took over the Dominion Hatcheries at Kenora, Port Arthur, Collingwood, Wiarton, Southampton, Sarnia, Kingsville and Belleville, and from that date fish rearing in Ontario was wholly a provincial undertaking.

At the present time, 27 hatcheries and rearing stations are operated. The following table gives a brief account of the number of stations handling different species of fish and their stage, age and length at distribution.

No. of Stations	Species	Stage	Age in months	Inches Length in
12	Speckled trout	Yearlings	14-19	4-8
5	Brown trout	Yearlings	14-19	4-8
2-1)	Rainbow trout	Yearlings	14-19	4-8
1)	Rainbow trout fingerlings	· ·		
9	Lake trout (Yearlings at 3, fingerlings at the remainder)			
10	Whitefish	Fry		
9	Yellow Pickerel	Fry		
1	Blue pickerel and perch	Fry		
4	Herring	Fry		
1	Maskinonge	Fry and finge	erlings	
6-5)	Small mouthed black bass	•	"	
1)	Large mouthed black bass	•	"	

A fish that is 12 months old, from the time of hatching, is a yearling. A fish one inch long or over is a fingerling or underyearling. Fry are those fish that have just recently hatched.

#### THE CULTURE AND DISTRIBUTION OF FISH

#### Speckled Trout:

Approximately 3,006,000 speckled trout yearlings and 4,500 speckled trout adults were planted in suitable waters during the year. The distribution of yearlings was 4% higher than that of the preceding year. The distribution of adults was fractionally higher, and the fingerlings distributed showed a decrease of 76% as it is not the policy of the Department to plant trout younger than yearlings.

#### **Brown Trout:**

One-quarter million yearlings were planted; a decrease of 32%, as compared with 1944.

#### Rainbow Trout:

- (a) Steelhead trout:
  - Only a few thousand eggs were collected and these were planted in the fry stage.
- (b) Kamloops trout:

There was an increase of 25% in the yearling distribution as compared with the preceding year.

#### Atlantic Salmon:

Again, through the courtesy of the Department of Fisheries at Ottawa, our Depart-

ment obtained a consignment of Atlantic Salmon Eggs from Miramichi Hatchery, South Esk, N.B. The distribution of the fingerlings showed an increase over the preceding year of 38%.

#### Lake Trout:

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Total distribution was as follows:

765,000 fry 7,248,040 fingerlings 88,700 yearlings

The hatcheries were able to hold the fry to the advanced fingerling stage, and while there was a decrease of 74% in the fry distribution, the fingerling distribution showed an increase of 110%, and the yearling distribution an increase of 100% over the preceding year.

#### Whitefish:

The collection of whitefish eggs in 1945 was down slightly from the preceding year at all spawning grounds. This made a slight decrease of 7% in the distribution.

#### Herring:

This year's distribution showed an increase of 13% over last year.

#### Yellow Pickerel, or Pike-Perch:

This spring there was unfavourable spawn taking weather at three of the spawn-taking grounds, operating from Fort Frances, Kenora and Little Current Hatcheries. As a result there was a decrease of 35% in the distribution this year as compared with 1944.

#### Small-Mouthed Black Bass:

There was a considerable decrease in the number reared this year, on account of the difficulty in obtaining a suitable number of breeders for the breeding ponds. However, the distribution of breeders and the transplantation of yearlings was 88% higher than the previous year.

#### Large-Mouthed Black Bass:

Five thousand fingerlings were successfully reared and distributed from one pond at Mount Pleasant hatchery.

#### Yellow Perch:

Yellow perch spawn is collected from Lake Erie in the vicinity of Kingsville. The catch in this area is subjected to wide fluctuations, as indicated by reference to preceding annual reports. There was a 34% decrease this year, as compared with that of 1944.

#### Maskinonge:

The distribution of maskinonge fry was 25% less than that of the preceding year, owing to unsatisfactory weather conditions, which affected the normal growth and food supply.

#### **CLOSED WATERS**

In addition to the waters already closed for the natural protection and propagation of fish, the following were closed during the year April 1st, 1945 to March 31st, 1946.

#### Adam Lake

Located in unorganized territory north of Clay Lake and between Fluke Lake and Segise Lake, District of Kenora.

#### All Public Lakes

Township of Humphrey, District of Parry Sound.

#### Belmont Lake

Portions known as Taylor's Bay and Munn's Bay, Township of Belmont, County of Peterborough.

#### Big Thessalon River

From Poplar Dale Bridge to Nolens Flats, Township of Morin, District of Algoma.

#### Chemong Lake

That portion located as follows:

Lots	Concessions	Township	County
1-2-3	IV	Smith	Peterborough
23	IV	Emily	Victoria
22-23	V	Emily	Victoria

#### Dead Creek

Township of North Crosby, County of Leeds.

#### Deer Bay

Portion known as Black Duck Lake, Township of Harvey, County of Peterborough.

#### Devil Lake

Portion located south-east of Jones' Bridge, Township of Bedford, County of Frontenac.

#### Eagle Lake

Townships of Hinchinbrooke, Bedford and Olden, County of Frontenac.

#### Harvey or Nogies Creek

From dam at Bass Lake to dam near Pigeon Lake, Townships of Galway and Harvey, County of Peterborough.

#### Little Mud Lake

Portion located on lots 27 and 28, concession 14, Township of Smith, County of Peterborough.

#### Long Lake

Township of Lansdowne, County of Leeds.

#### Newboro Lake

That portion known as "The Bog" excluding "Lucky Bay," Township of South Crosby, County of Leeds.

#### North River

From the closed portion of Taylor's Bay to the first bridge upstream, Township of Belmont, County of Peterborough.

#### North River

Portion known as Searight's Bay, Township of Belmont, County of Peterborough.

#### **Opinicon Lake**

That portion known as Darling's Bay, Township of Storrington, County of Frontenac.

#### Scugog River

Portion known as Goose Lake, Township of Fenelon, County of Victoria.

#### Sulphur Creek

That portion from Byng Bridge west, Haldimand County.

#### Whitefish Lake

That portion in vicinity of Jones' Falls north of bridge and fifty feet south of bridge, Township of South Crosby, County of Leeds.

#### White Pine Lake

Township of Gamble, District of Timiskaming.

#### **BIOLOGICAL SURVEYS**

# ATLANTIC SALMON EXPERIMENT, DUFFIN CREEK SYSTEM, ONTARIO COUNTY

"This experiment, initiated in 1944, is being carried out for a twofold purpose. Primarily, it is an attempt to reintroduce Atlantic salmon (Salmo salar) into Lake Ontario and tributary streams and, secondly, to determine the efficiency of restocking streams with hatchery raised fish. This is an excellent opportunity to do the latter because here a species is being introduced which is not already present in the stream system which eliminates any confusion between the introduced fish and those which are the result of natural propagation.

During June of 1944, 1945 and 1946, approximately 40,000 salmon fry were planted each year. These salmon were distributed evenly over the stream system which includes many types of streams. By seining, and other methods, the number of salmon present in each section of the stream was estimated and from this the number which survive out of a definite number planted may be calculated.

Work to date has largely been confined to determining the salmon distribution and survival in the various types of streams. This gives a good indication of the types of streams preferred by salmon as it was found that some streams had few or no survivors whereas others had a large number of survivors. Work is now being carried out to determine what attributes a stream must have to qualify as a good salmon stream. The more important factors affecting salmon distribution are light, temperature, food, rate of flow, type of bottom, overhead cover, sedimentation, and the number of other species present.

An estimation of the number of salmon present in the whole stream system, including the areas where none was found to survive, as of October, 1946, showed that approximately 16% of the salmon planted in 1946 and 8% of those planted in 1945 were still present in the stream system.

Although the experiment is still in its early stages, results thus far indicate that if salmon are planted in favourable streams a large percentage will survive for at least two years of stream life, at which time they are expected to descend the streams. Traps are to be constructed in the stream during the spring of 1947 to determine the number of descending smolts.

It has been found that the rate of growth of these salmon parr is comparable with that of the salmon of the Maritime Provinces."

Biological surveys were carried out on:

Pond at Hagersville.

Pond at Simcoe.

Lake on Golf Course at Renfrew.

The south end of Lake Simcoe was examined with regard to a sudden mortality of fish in that area. The fish affected were largely bullheads but some pike, black bass and rock bass also died. Cause of the mortality was not determined but it is believed that it was due to a disease of a bacterial or virus nature.

A dam on Balphorine Creek, near Havelock in Peterboro County, was examined with regard to the necessity of a fishway. This was not deemed necessary in this case.

#### **Hatchery Sites**

During the year hatchery sites at the following locations were examined to determine their suitability as possible future sites for hatcheries and rearing stations:

#### Frontenac County:

Devil's Lake at Bedford Mills.

Rock Lake, five miles west of Chaffey's Locks.

#### Leeds County:

O'Neill's Creek, nine miles from Gananoque.

Cullen Brook, Township of Bastard, Lot 21, Con. 7.

Basin Lake, Township of Lansdowne.

Spring stream and outlet of Mud Lake, vicinity of Portland.

Outlets of Wolfe Lake and Sand Lake (vicinity of Westport).

#### Lanark County:

Pike Lake, Burgess Township.

Black Lake, Burgess Township.

Silver Lake, Sherbrooke Township.

Outlets of Dalhousie, Christie and Bennett's lakes.

#### Grey County:

Streams in the vicinities of Flesherton and Markdale.

Silver Creek, ten miles from Collingwood.

Spring creek rising at Rob Roy, Lot 32, Con. 13.

#### Simcoe County:

Small creek due west of town of Penetang.

Deep-seated springs in the vicinity of Midland waterworks.

Copeland's Creek, at headwaters of Coldwater River.

Joe Jimo's Creek and an unnamed stream also in the vicinity of the Coldwater River.

#### Wellington County:

Several streams in the Guelph area including Robinson Creek, a pond at Hillsburg and Hindley Creek, Sixth Line of Eramosa.

#### Nipissing District:

Springs in vicinity of Redbridge approximately 10.5 miles from the North Bay Trout Rearing Station.

#### ACKNOWLEDGEMENTS

The wild life of the Province constitutes a resource of tremendous importance and value. It is a heritage of the Crown, and the policies which govern the administration of this trust are based on the premise that every citizen has an equity in these resources.

There is a duty imposed on every sportsman in this era of proper control and wise use which implies a proper respect for the rules which govern. This is the test of true sportsmanship and the best possible contribution the individual can make to the conservation of our wild life resources.

The co-operation of the various Sportsmen's Associations and similar organizations throughout the Province as well as the individual co-operation of all those who from the standpoint of recreation or conservation have interested themselves in the protection of these resources is deeply appreciated.

The effect of organized effort along educational lines has been to create a new appreciation of the value of our fish and game resources and the problems involved in their perpetuation. With a constructive programme as a base and an enlightened public opinion to support our efforts, we may look to the future with confidence.

In conclusion, the services rendered by members of the Departmental staff, both at headquarters and in the field have, generally speaking, been satisfactory. They have performed their duties in a conscientious manner, and were particularly courteous in their contacts with the public with whom they had any dealings.

# APPENDIX NO. 1

# SPECIES AND QUANTITIES OF FISH PLANTED IN PROVINCIAL WATERS April 1st, 1945, to March 31st, 1946

LARGE-MOUTHED BLACK	BASS	Waterloo	2,000
Financina		Welland	500
Fingerlings	4.000	Wellington	500
Victoria York	4,000 1,000	Yearlings and Adults	
	2,000	Brant	42
SMALL-MOUTHED BLACK	RASS	Haliburton	150
SMADD-MOUTHED BEACK	DASS	Hastings	300
Fry		Kenora	947
Hastings	15,000	Manitoulin	496
Muskoka	200,000	Norfolk	40
Nipissing	20,000	Northumberland	520
Parry Sound	155,000	Parry Sound	385
Peterborough	48,000	Peel	10
Simcoe	10,000	Peterborough	2,432
		reterborough	2,402
Fingerlings			
Algoma	45,500	SPECKLED TROUT	
Bruce	9,000	Eyed Eggs	
Elgin	1,500	Kenora	5,000
Frontenac	34,000	11C1101 a	0,000
Granville	1,000	Fingerlings	
Grey	3,000	Algoma	8,000
Haldimand	500	Kenora	3,000
Haliburton	4,000	Northumberland	11,500
Halton	2,100	Thunder Bay	94,800
Hastings	2,418		
Huron	500	Yearlings	
Kent	500	Algoma	504,500
Lambton	1,000	Brant	6,600
Lanark	17,000	Bruce	25,500
Leeds	11,000	Cochrane	131,700
Lennox	10,000	Dufferin	19,750
Lincoln	500	Durham	38,350
Manitoulin	26,000	Elgin	20,400
Middlesex	500	Frontenac	63,040
Muskoka	8,100	Grey	120,300
Nipissing	7,000	Haliburton	37,900
Northumberland	1,500	Halton	3,800
Ontario	500	Hastings	121,000
Oxford	1,000 ·	Huron	17,700
Parry Sound	40,200	Kenora	5,500
Peel	400	Lanark	4,800
Perth	500	Leeds	4,800
Peterborough	7,800	Lennox	38,600
Renfrew	10,250	Lincoln	2,400
Russell	1,000	Manitoulin	115,500
Simcoe	4,500	Muskoka	138,600
Sudbury	84,600	Nipissing	181,800
Timiskaming	1,000	Norfolk	31,800
	1,000	1401101K	01,000
Victoria	7,000	Northumberland	56,618

Ontario         2,800 Oxford         ATLANTIC SALMON Oxford         9,000 Parry Sound         164,300 Peel         25,500 Ontario         Fry         41,350           Peterborough         63,200 Rainy River         151,300 Sincoe         KAMLOOPS TROUT         Sincoe         5,400 Yearlings         Muskoka         5,400 Parry Sound         2,500         Yearlings         41,9350 Parry Sound         2,500         Yearlings         2,500         Yearlings         41,9350 Parry Sound         2,500         Yearlings         2,500         Yearlings         41,9350 Parry Sound         2,500         Yearlings         41,000         Algoma         5,400 Parry Sound         2,500         Yearlings         42,500         Yearlings         41,000,000         Lake St. Clair         1,000,000         Lake Erie         11,000,000         Lake Erie         11,000,000         Lake Erie         405,000         Lake Erie         405,000         Eyed Eggs         Exchange         50,000         Fry         Yearlings         Exchange         50,000         Parry Sound         1,000         Durham         5,600         Elgin         12,700         Parry Sound         1,000		0.000	AMY ANIMAG GATARON	
Parry Sound	Ontario	2,800	ATLANTIC SALMO	N
Party   Sound   25,500   Peterborough   63,200   Simcoe   35,700   Sudbury   419,350   Muskoka   227,150   Thunder Bay   227,150   Thinsisaming   139,865   Victoria   8,000   Waterloo   27,300   Wellington   34,250   Wellington   34,250   Wellington   34,250   Wellington   200   Lake Erie   11,000,000   Lake Ontario   3,000,000   Lake Ontario   3,000,000   Lake Ontario   3,000,000   Late Simple   10,000   Mastings   200,000   Manitoulin   200,000   Manitoulin   200,000   Northumberland   220,000   Ontario   300,000   Peterborough   930,000   Peterborough   930,000   Simcoe   60,000   Vork   60,000   Vork   60,000   Tork   60,000   T			Fry	
Peterborough	•	,	1	41,350
Rainy River				11,000
Simce	9		KAMI OODS TROUT	r
Sudbury		,	KAMLOUFS INOU	L
Thunder Bay   227,150   Thimiskaming   139,865   Timiskaming   139,865   Weltington   2,500   Waterloo   27,300   Wellington   34,250   Wellington   34,250   YELLOW PERCH		•	Yearlings	
Thunder Bay	Sudbury		Muskoka	5.400
Timiskaming		•		,
Victoria	_			
Wellington   34,250   Wentworth   3,600   York   3,800   Adults	,		_,	
Wentworth		•	VELLOW PERCH	
York		•	TELLOW TERCH	
Adults	Wentworth	•	Fry	
Adults	York	3,300	Lake St. Clair	1,000,000
Algoma	Adults			
Northumberland   200   Peel		3 760		• •
Peel		,	BROWN TROUT	
HERRING			DROWN INSET	
Lake Erie	L UCI	000	Eyed Eggs	
Lake Erie	HERRING		Exchange	50,000
Lake Erie         405,000         Brant         6,000           Lake Huron         3,000,000         Durham         5,600           Lake Ontario         3,000,000         Elgin         12,700           MASKINONGE           Fry         Haldimand         3,600           Dundas         10,000         Halton         14,250           Hastings         6,800         Huron         9,600           Hastings         6,800         Huron         9,600           Manitoulin         20,000         Middlesex         1,800           Muskoka         10,000         Norfolk         24,450           Morthumberland         220,000         Norfhumberland         2,749           Ontario         30,000         Parry Sound         3,600           Parry Sound         10,000         Peel         24,400           Peterborough         930,000         Peterborough         2,100           Peterborough         930,000         Waterloo         13,400           Sudbury         20,000         Welland         4,400           Victoria         390,000         Wellington         13,400           Waterloo         10,000	Fry		Vaarlings	
Lake Huron	Lake Erie	405,000	_	6 000
Lake Ontario	Lake Huron		1	,
MASKINONGE   Fry   33,900   Haldimand   3,600   Halton   14,250   Hastings   6,800   Harton   9,600   Hastings   200,000   Huron   9,600   Middlesex   1,800   Leeds   20,000   Middlesex   1,800   Norfolk   24,450   Manitoulin   20,000   Norfolk   24,450   Manitoulin   22,000   Northumberland   2,749   Miskoka   10,000   Northumberland   220,000   Northumberland   220,000   Parry Sound   3,600   Parry Sound   3,600   Peel   24,400   A,000   Peterborough   930,000   Peterborough   930,000   Peterborough   2,100   Peterborough   2,100   Peterborough   2,100   Prince Edward   80,000   Simcoe   14,400   Waterloo   13,400   Waterloo   13,400   Welland   4,400   Welland   4,400   Wellington   13,400   Wetworth   3,600   York   6,000   Fry   MINNOWS   Adults   Kent				
Haldimand		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Dundas	MASKINONGE			
Dundas	Frv			
Serior   S		10,000		•
Hastings		•		•
Leeds				
Manitoulin         20,000         Northumberland         2,749           Muskoka         10,000         Oxford         14,400           Nipissing         10,000         Parry Sound         3,600           Northumberland         220,000         Peel         24,400           Ontario         30,000         Perth         3,600           Parry Sound         10,000         Petrborough         2,100           Peterborough         930,000         Simcoe         14,400           Prince Edward         80,000         Waterloo         13,400           Simcoe         60,000         Welland         4,400           Sudbury         20,000         Wellington         13,400           Victoria         390,000         Wentworth         3,600           Waterloo         10,000         Wentworth         3,600           York         6,000           Fingerlings           Northumberland         120         WHITEFISH           Peterborough         80         Fry           MINNOWS         Kenora         32,370,000           Rainy River         17,980,000           Rainy River         1,522,275           North Channel		•		,
Muskoka         10,000         Oxford         14,400           Nipissing         10,000         Parry Sound         3,600           Northumberland         220,000         Peel         24,400           Ontario         30,000         Perth         3,600           Parry Sound         10,000         Petrh         3,600           Parry Sound         10,000         Petrh         3,600           Peterborough         2,100         Simcoe         14,400           Prince Edward         80,000         Waterloo         13,400           Simcoe         60,000         Welland         4,400           Sudbury         20,000         Wellington         13,400           Victoria         390,000         Wentworth         3,600           Waterloo         10,000         York         6,000           Fingerlings           Northumberland         120         WHITEFISH           Peterborough         80         Fry           MINNOWS         Kenora         32,370,000           Rainy River         17,980,000           Rainy River         17,980,000           Lake Superior         1,522,275           North Channel<		•		
Nipissing		•		,
Northumberland         220,000         Peel         24,400           Ontario         30,000         Perth         3,600           Parry Sound         10,000         Peterborough         2,100           Peterborough         930,000         Simcoe         14,400           Prince Edward         80,000         Waterloo         13,400           Simcoe         60,000         Welland         4,400           Sudbury         20,000         Wellington         13,400           Waterloo         10,000         Wentworth         3,600           Waterloo         10,000         Wentworth         3,600           York         6,000           Fry           MINNOWS         Kenora         32,370,000           Rainy River         17,980,000           Kent         4,000         Lake Superior         1,522,275           North Channel         7,000,000         Georgian Bay         40,614,500           Lake Huron         24,400,000		•		•
Ontario         30,000         Perth         3,600           Parry Sound         10,000         Peterborough         2,100           Peterborough         930,000         Simcoe         14,400           Prince Edward         80,000         Waterloo         13,400           Simcoe         60,000         Welland         4,400           Sudbury         20,000         Wellington         13,400           Victoria         390,000         Wentworth         3,600           Waterloo         10,000         York         6,000           Fingerlings           Northumberland         120         WHITEFISH           Peterborough         80         Fry           MINNOWS         Kenora         32,370,000           Rainy River         17,980,000           Lake Superior         1,522,275           North Channel         7,000,000           Georgian Bay         40,614,500           Lake Huron         24,400,000	Northumberland	•		•
Parry Sound         10,000         Peterborough         2,100           Peterborough         930,000         Simcoe         14,400           Prince Edward         80,000         Waterloo         13,400           Simcoe         60,000         Welland         4,400           Sudbury         20,000         Wellington         13,400           Victoria         390,000         Wentworth         3,600           Waterloo         10,000         York         6,000           Fingerlings           Northumberland         120         WHITEFISH           Peterborough         80         Fry           MINNOWS         Kenora         32,370,000           Rainy River         17,980,000           Lake Superior         1,522,275           North Channel         7,000,000           Georgian Bay         40,614,500           Lake Huron         24,400,000		•		,
Peterborough         930,000         Simcoe         14,400           Prince Edward         80,000         Waterloo         13,400           Simcoe         60,000         Welland         4,400           Sudbury         20,000         Wellington         13,400           Victoria         390,000         Wentworth         3,600           Waterloo         10,000         York         6,000           Fingerlings           Northumberland         120         WHITEFISH           Peterborough         80         Fry           MINNOWS         Kenora         32,370,000           Rainy River         17,980,000           Lake Superior         1,522,275           North Channel         7,000,000           Georgian Bay         40,614,500           Lake Huron         24,400,000				,
Prince Edward         80,000         Waterloo         13,400           Simcoe         60,000         Welland         4,400           Sudbury         20,000         Wellington         13,400           Victoria         390,000         Wentworth         3,600           Waterloo         10,000         York         6,000           Fingerlings           Northumberland         120         WHITEFISH           Peterborough         80         Fry           MINNOWS         Kenora         32,370,000           Rainy River         17,980,000           Lake Superior         1,522,275           North Channel         7,000,000           Georgian Bay         40,614,500           Lake Huron         24,400,000		•	_	•
Simcoe		,		,
Sudbury         20,000         Wellington         13,400           Victoria         390,000         Wentworth         3,600           Waterloo         10,000         York         6,000           Fingerlings           Northumberland         120         WHITEFISH           Peterborough         80         Fry           MINNOWS         Kenora         32,370,000           Rainy River         17,980,000           Lake Superior         1,522,275           North Channel         7,000,000           Georgian Bay         40,614,500           Lake Huron         24,400,000		•	i and the second	
Victoria         390,000         Wentworth         3,600           Waterloo         10,000         York         6,000           Fingerlings           Northumberland         120         WHITEFISH           Peterborough         80         Fry           MINNOWS         Kenora         32,370,000           Rainy River         17,980,000           Lake Superior         1,522,275           North Channel         7,000,000           Georgian Bay         40,614,500           Lake Huron         24,400,000				
Waterloo         10,000         York         5,000           Fingerlings         120         WHITEFISH           Northumberland         120         WHITEFISH           Peterborough         80         Fry           MINNOWS         Kenora         32,370,000           Rainy River         17,980,000           Lake Superior         1,522,275           North Channel         7,000,000           Georgian Bay         40,614,500           Lake Huron         24,400,000	-	,		
Fingerlings   120   WHITEFISH				
Northumberland         120         WHITEFISH           Peterborough         80         Fry           MINNOWS         Kenora         32,370,000           Adults         Rainy River         17,980,000           Kent         4,000         Lake Superior         1,522,275           North Channel         7,000,000           Georgian Bay         40,614,500           Fry         Lake Huron         24,400,000		10,000	YORK	6,000
MINNOWS         Kenora         32,370,000           Adults         Rainy River         17,980,000           Kent         4,000         Lake Superior         1,522,275           North Channel         7,000,000           Georgian Bay         40,614,500           Fry         Lake Huron         24,400,000				
MINNOWS   Kenora   32,370,000	-	120	WHITEFISH	
MINNOWS         Kenora         32,370,000           Adults         Rainy River         17,980,000           Kent         4,000         Lake Superior         1,522,275           North Channel         7,000,000           Georgian Bay         40,614,500           Fry         Lake Huron         24,400,000	Peterborough	80	E	
Adults       Rainy River       17,980,000         Kent       4,000       Lake Superior       1,522,275         North Channel       7,000,000         Georgian Bay       40,614,500         Fry       Lake Huron       24,400,000	BETSING			
Kent       4,000       Lake Superior       1,522,275         North Channel       7,000,000         Georgian Bay       40,614,500         Lake Huron       24,400,000				
RAINBOW TROUT  Fry  North Channel				
RAINBOW TROUT  Fry  Georgian Bay	Kent	4,000		
Fry Lake Huron	PAINDOW TROUT			
Algoma				
	Algoma	5,563	Lake Erie	84,300,000

Lake Ontario		YELLOW PICKEREL (Pik	e-Perch)
Thunder Bay		Fry	
Manitoulin	500,000	Algoma	14.275.000
		Bruce	
LAKE TROUT		Cochrane	
		Dundas	, ,
$\mathbf{Fry}$		Frontenac	
North Channel	590,000	Grenville	1,000,000
Lake Superior	175,000	Grey	750,000
		Haliburton	
Fingerlings		Hastings	. 5,650,000
Lake Superior	2,629,540	Kenora	. 16,000,000
North Channel	300,000	Kent	. 500,000
Georgian Bay	1,840,000	Lambton	. 750,000
Lake Huron	545,100	Lanark	. 5,250,000
Lake Ontario	15,500	Leeds	. 2,000,000
Algoma	308,000	Lennox	. 8,620,000
Frontenac	18,000	Lincoln	
Haliburton	130,500	Manitoulin	. 4,900,000
Hastings	31,000	Middlesex	. 300,000
Kenora	75,000	Muskoka	. 1,225,000
Lanark	4,000	Nipissing	8,250,000
Leeds	3,500	Northumberland	
Lennox	6,000	Ontario	
Manitoulin	75,000	Oxford	. 1,200,000
Muskoka	305,000	Parry Sound	
Nipissing	88,000	Peterborough	4,200,000
Parry Sound	374,000	Prince Edward	
Peterborough	45,000	Rainy River	
Rainy River	21,900	Renfrew	
Renfrew		Russell	
Simcoe	45,000	Simcoe	
Sudbury		Stormont	
Thunder Bay	144,000	Sudbury	8,850,000
		Timiskaming	8,850,000
Yearlings		Thunder Bay	
Bruce	4,300	Victoria	
Cochrane	2,000	Welland	
Muskoka		Lake of the Woods	
Nipissing	30,600	Lake Superior	
Parry Sound		North Channel	
Simcoe		Lake Huron	
Timiskaming	10,800	Lake Erie	1,200,000

 ${\bf APPENDIX\ NO.\ 2}$  distribution of fish according to species, 1941 to 1945 inclusive

	1941	1942	1943	1944	1945
Large-mouthed Black Bas	s				
Fry	110,000	185,000	507,500	130,000	
Fingerlings	17,700	19,100	38,500	14,600	5,000
Adults & Yearlings	109	290	290	51	
Small-mouthed Black Bas	s				
Fry	1,911,500	1,535,500	1,512,000	2,030,000	448,000
Fingerlings	691,925	718,259	392,700	664,400	348,368
Yearlings & Adults	2,254	2,355	1,369	2,834	5,322
Maskinonge					
Fry	2,100,000	1,575,000	1,165,000	2,705,000	2,030,000
Fingerlings	1,494	705	2,150	2,952	200
Minnows				•	
Adults		500	Page 1	25,000	4,000
Perch					
Fry	31.600.000	24,175,000	19,000,000	18,480,000	12,000,000
Pickerel (Yellow)	01,000,000		,,	,,	, ,
Fry	227 090 000	301,760,000	263,875,000	271,265,000	177,595,000
	221,330,000	301,100,000	200,010,000	2.1,200,000	111,000,000
Pickerel (Blue)			150,000		
Fry			130,000		
Brown Trout			10.000		50,000
Eyed Eggs	20.000	20.000	10,000		50,000
Fingerlings	60,000	23,000	1,000	220.750	224,749
Yearlings	346,188	359,275	303,335	330,750	224,140
Lake Trout	000 000	400 000	200 000	200 000	
Eyed Eggs	800,000	400,000	200,000	200,000	7.CE 0.00
Fry	913,000	367,000	125,000	2,976,500	765,000 7,248,040
Fingerlings	18,066,400	15,429,600	8,048,800	3,475,995 44,018	88,700
Yearlings		10,680	60,860	44,010	88,100
Atlantic Salmon				00.000	41.050
Fry				30,000	41,350
Rainbow Trout					
Fry				02.102	5,563
Fingerlings	164,000	111,000	73,242	32,186	
Yearlings	11,750	12,900	15,450	3,900	
Kamloops Trout					
Fingerlings	88,150				
Yearlings	25,000	24,800	5,000	7,200	9,900
Speckled Trout					
Fry		500	5,000		5,000
Fingerlings	394,000	631,775	9,400	493,840	117,300
Yearlings	3,060,174	2,918,513	3,083,983	2,876,963	3,005,573
Adults	16,732	7,527	10,292	4,360	4,460
Whitefish					
Fry	375,960,500	395,052,000	371,677,500	259,435,000	240,786,775
Herring					
Fry	8,630,000	18,430,000	24,560,000	5,662,000	6,405,000
TOTALS	672 960 876	763,750,279	694,833,371	570,892,549	451,193,300
TOTALS	012,300,010	100,100,210	004,000,011	010,002,040	401,100,000

## APPENDIX

# GAME AND FISHERIES

Statistics of the Fishing Industry in the Public Waters

**EQUIP** 

DISTRICT	No. of TUGS				SOLINE INCHES	SAIL AND ROW BOATS		GILL NETS		
		No.	Tons	Value	No.	Value	No.	Value	Yards	Value
Northern Inland Waters Lake Superior Lake Huron North Channel Georgian Bay	409 209 70 403	13 8 3	33 458 251 26 258	\$25,200 89,500 66,000 10,500 89,000	116 79 33 131	82,950 22,900 125,025	102 15 30 114	880 1,975 6,150	1,165,075 995,600 111,800 1,299 845	159,370 145,760 16,210
Lake St. Clair Lake Erie Lake Ontario Southern Inland Waters	1,087	55 1 2	1,058 5 28	493,500 7,000 1,000	31 193 227 14	17,790 357,821 130,700 3,600	130 203	5,300 12,545 10,823 6,188	2,709,670 1,238,122	146,875
Totals	3.982	99	2.117	\$781 700	1.010	\$955 491	1 114	\$78.089	8 191 638	\$1 144 296

# **APPENDIX**

QUANTITIES OF

	HERRING	WHITE- FISH	TROUT	PIKE	PICKEREL (BLUE)	PICKEREL (DORE)
DISTRICT	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
Northern Inland Waters	100,372 4,477	1,490,357 358,617 66,139 21,791 279,285 150 1,689,353 359,397	142,420 1,479,120 117,410 7,165 737,591 129 105,145	829,622 7,662 2,540 93,736 24,944 15,823 29,647 91,115 9,287	4,151 917 6,558,766 18,632	1,556,260 97,799 138,189 33,318 38,017 54,795 1,068,208 33,923 664
TOTALS	9,124,060	4,265,089	2,588,980	1,104,376	6,582,466	3,021,173
VALUES	\$1,183,053.32	\$1,352,137.98	\$ 832,660.52	\$ 110,797.40	\$ 1.316.120.56	\$ 665.356.65

# NO. 3

# DEPARTMENT, ONTARIO

of Ontario, for the year ending December 31st, 1945

# MENT

SEINE NETS   Pound Nets		ноо	HOOP NETS   DIP AND Roll Nets			NIGHT LINES		Freezers & Ice Houses		Piers and Wharves		TOTAL			
No	Yds.	Value	No.	Value	No.	Value	No	Value	No. Hooks	Value	No.	Value	No.	Value	Value
		\$	35 36 89 36	\$14,860 15,450 64,600 12,600		\$3,100		.8	4,900 2 3,630 2	\$990 5 1,220 5	144 75 52 22	\$40,120 56,445 30,600 7,700	60 17 15	\$18,543 29,280 5,635 5,350	464,805 397,645 77,240
16 37	600 3,700 10,000	2,520	61 134 677	55,450 21,400 377,170	6-	915 3,265			14,412 4,200 2,250	3,160 338 119	63 16 124	25,675 7,600 305,300	56 11 95	35,015 2,140 60,675	57,088
9	890 3,900	990 5,625	011		759 305	25,315 11,120	9	$\frac{1,177}{126}$	2,418 1,425	190 115	38 16	8,870 1,570	38	9,140	
110	19,090	17,774	1068	561,530	1210	43,715	29	1,303	33,239	6,142	550	483,880	406	165,778	4,239,698

#### NO. 4

# FISH TAKEN

STURGEON	EELS	PERCH	TUL- IBEE	CATFISH	CARP	MIXED COARSE	CAVAIRE	TOTAL	VALUE
lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	
106,258 1,000 4,172 6,436 720 1,808 10,725 8,105	320 43,535 2,864		239,503 57,259 291,766 7,208 103,901	44,750 8,652 63 5,608 61,824 71,639 223,087 135,918	46 20,115 2,867 38,080 89,839 139,430 178,747 168,944	615,975 101,965 78,560 244,581 188,652 246,087 1,729,524 321,819 285,192	243 75 184	5,039,544 3,812,064 1,070,900 433,990 1,524,489 502,991 18,949,577 2,338,186 606,002	\$897,931.48 695,638.55 229,911.02 54,507.16 383,817.94 61,793.07 3,698,891.33 385,428.87 70,755.83
139,224	46,719	1,695,084	699,637	557,546	638,068	3,812,355	2,966	34,277,743	
97,900.00	3,724.72	321,571.70	119,955.24	97,859.16	48,388,39	326,966.11	7,183.50		6,433,675.28

APPENDIX NO. 5

COMPARATIVE STATEMENT OF THE YIELD OF THE FISHERIES OF ONTARIO

	1944	1945	Increase	Decrease
Kind	Pounds	Pounds	Pounds	Pounds
Herring	3,045,883	9,124,060	6,078,177	
Whitefish	4,204,163	4,265,089	60,926	
Trout	2,950,430	2,588,980		361,450
Pike	1,073,388	1,104,376	30,988	
Pickerel (Blue)	9,413,269	6,582,466		2,830,803
Pickerel (Dore)	2,899,446	3,021,173	121,727	
Sturgeon	161,117	139,224		21,893
Eels	41,795	46,719	4,924	
Perch	1,942,208	1,695,084		247,124
Tullibee	598,594	699,637	101,043	
Catfish	506,777	557,546	50,769	
Carp	674,008	638,068		35,940
Mixed and Coarse	3,527,821	3,812,355	284,534	
Caviare	1,660	2,966	1,306	
Totals	31,040,559	34,277,743	6,734,394	3,497,210
Net Increase			3,237,184	
Net Increase			3,237,184	

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