Reliable Statistics of the Fur Trade

First Essential to Conservation of Wild Life-Large Increases in Quantities Taken by Matches-How One Inspector or met the Situation

The problem of securing accurate statistics regarding various phases of the fur industry was one of the important questions discussed at Convention held recently in Montreal under the auspices of the Commission of Conservation and the Advisory Board on Wild Life Protection. If effective steps are to be taken to guard against the depletion of fur-bearing species. it is essential to secure reliable figures as to the numbers of furbearing animals that are being taken from year to year. The Province of Quebec has adopted a system of controlling the fur trade that has given, among other results, invaluable statistical information

In addressing the Convention, Mr. J. A. Bellisle, Inspector Gen-eral of Fisheries and Game for Quebec, gave the following data:

"The comparative table which follows shows the quantities of each kind of furs stamped and on which royalty was paid for each of the two fiscal years 1917-18 and 1918-19 respectively, which were the first and second years of the operation of the law:

Species of furs		Quantity for 1918-19	Increase per cent
Otter	2.602	3,151	21
Beaver	38,576	51,624	34
Bear	1,283	1.679	30
Lynx	3,621	4,010	10
Wolf	94	114	
Marten	9,846	13.641	38)
Fisher	2,083	2,539	21
Wolverine	27	19	
Skunk	7,453	13,625	745
Mink	5,964	10,098	70
Black Fox	7	7	
Silver Fox	138	546	300
Blue Fox	30	91	300
Red Fox	8,297	12,909	56
Bastard Fox.	33	153	
White Fox	1,287	12,228	850
Cross Fox	875	2,110	141
Raccoon	1,182	1.989	
Muskrat	192,241	208,952	9
Weasel	33,396	50,392	51
Caribou	11	. 5	
Moose	164	218	32
Deer	7,350	5,746	28 decrease

"There was then a total for the first year 1917-18 of 317,050 skins which represented a value of \$1,548,348.25, on which we collected royalty to the extent of \$48,676.92. For the year 1918-19. the total number of skins stamped was 395,736, representing a total value of \$3,828,383.75, on which we collected \$81,830.26 of royalty.

WATER-POWERS-Continued from p. 14

The 7,398,160 h.p. available for new development in the populated area is derived from an estimated total possible of 9,781,400 h.p., of which 2,383,240 h.p. has already been developed.

Under the rate of growth as sumed, all the available water-powers within the populated portion would be developed in twenty years. It is self-evident, however, that, as new development becomes dependent on less accessible sites, it will proceed much more slowly. L. G. Denis.

Swallowed a Match to Avoid Explosion

Matches are the immediate cause of many of our largest fire losses and probably the majority of smaller fires could be traced to this same source.

More than one factory in Canada has gone down to ruins; many employees have been thrown out of employment, and their families have suffered want; many employers have seen the result of their lifework crumble-all the result of carelessness with matches. number of fires in business places shortly after closing time is remarkable. Investigation has shown that these are nearly always due to employees dropping unextinguished matches after lighting pipes or cigarettes. Especially is this the case during the cold weather, when employees, regard-less of "no smoking" rules, will "light up" before buttoning up their overcoats.

Many cases may be cited of fires caused by matches.

For instance, the coat and vest of an employee were hanging in a draught, and the swaying of the clothes against the wall lighted the matches in the vest pocket.

During the war, an inspector, inadvertently, carried a match into an explosives plant, but, knowing the danger, he chewed the match up and swallowed it.

If but a fraction of this recognition of the danger of matches could be impressed upon workers, much of our fire waste would be avoided, and the work necessary to replace this loss could be devoted to more productive efforts.

Preventive for

Inoculation Undoubtedly Saved Lives of Many Canadian Soldiers Expos-ed to Typhoid Conditions

One striking example of the efficacy of modern medicine is the marked result obtained in the prevention of typhoid fever in the European armies. In former wars, this disease wrought havoc both in field and camp. Two instances will serve to illustrate: In the South African war, the deaths totalled over 8,000 in 57,000 cases of the disease; in the Spanish-American war, of an army of over 100,000 men, practically one-fifth (20,734) was attacked. During the recent war, there were only scattered cases of the fever and occasional small groups of cases in different units. The deaths among the troops, while under the most severe of active service conditions, were slightly below that of the civil population of similar ages and for the same period, in England and as the forestry profession and Wales, where the typhoid death demonstrates its worth.

understand the method. anti-typhoid vaccine is a liquid con- this line would greatly lengthen taining large numbers of dead the period of operation in virgin typhoid bacilli and the toxins supplies of many concerns. Aside formed in bacillian cultures, and from more complete utilization of is administered by being inserted merchantable material in the under the skin by means of a hypodermic needle. The effect is hypodermic needle. either to counteract or prevent typhoid fever, thus acting as a preventive or prophylactic.

Inoculation against typhoid was early adopted in the Canadian forces, 23,000 of the first contingent voluntarily receiving treatment at Valcartier. Its success has been amply demonstrated. Reports received clearly show that the non-inoculated soldier is much more liable to contract typhoid fever than is the inoculated; also, should the disease be contracted, the non-inoculated case is between three and four times more liable to terminate fatally. It has been found that the severity of the attack is generally much lessened, and that inoculation protects against relapses and complications, while convalescence is more rapid. When inoculation is performed early after infection, it reduces the virulence of the attack.

The experience of the French army is similar to that of the British. It is authoritatively stated that the number of cases of typhoid in the German army at once declined when inoculation was carried out, and so marked was the result that, by 1915, all the armies of the central powers had been inoculated against typhoid fever.—C. A. Hodgetts, M.D.

Value of Forestry is Appreciated

Private Companies Undertaking Measures to Ensure Continu-ance of Industry

There is a steadily increasing movement toward the employment Typhoid Fever of trained foresters by private concerns, principally pulp and paper companies. Fourteen such companies in eastern Canada now employ foresters for exploration, mapping, cruising, surveying, inspection of woods operations, forest research, forest nursery work, tree planting, or some com bination of these activities. While this is a splendid development and one most promising for the future, it must still be recorded that only to a very limited extent have foresters in private employ yet been used in the actual supervision of woods operations, and that their influence has not yet been felt to any great extent in modifying the methods of conducting such operations with a view to increasing the productiveness of cut-over lands. Developments along these lines must be gradual; it will increase with increasing shortage of timber supplies and consequently higher stumpage values,

public, although, possibly, few only a beginning has yet been sary articles of luxury, will help.

The made. Adequate action along trees-by cutting lower stumps and higher up into the tops-it is well known that great amounts of cut timber have been carelessly left to rot in the woods or left stranded in the smaller streams. More careful supervision would correct a great deal of this abuse, though considerable loss by sinkage and stranding in stream-driving seems unavoidable.

Another field of large possibilities lies in the better control of jobbers' operations, with a view to ensuring the removal of all merchantable material on areas being cut over. There is evidence that, in some cases, lack of supervision results in jobbers being given a larger area than they require for the cutting of the number of logs contracted for. The result is that the jobber is likely to pick and choose, taking the best and most accessible trees, and leaving behind much merchantable material which should have been taken, but is too small in amount to justify a later operation. This is likely to be lost through windfall, insects, decay or fire before the undersized timber makes sufficient growth to justify another operation.

Among the pulp and paper companies which have undertaken programmes of reforestation, the pioneers are the Laurentide Company, Ltd., and the Riordon Pulp and Paper Company, both in Quebec. Both these concerns are working toward an annual planting 2,000,000 trees.

During the past year the Abitibi Company has organized a forestry department in connection with its limits in Northern Ontario. In addition to other lines of forestry work, this company has established a forest nursery, with a view to undertaking planting operations. That the field for private forestry

is increasing rapidly is clearly indicated by the increasing number of foresters who are going into the work on a consulting basis. Forest surveys, mapping, cruising and exploration are, at present, the principal lines open to such men.

ADVERSE EXCHANGE AND PRO-DUCTION

The fluctuating rate of exchange, inconvenient as it may be, is on the whole an accurate barometer of the international trade situation. A dollar bill is only a promise to pay and is valueless unless redeemable. Gold, however, is not the only commodity with which it can be honoured. It can be redeemed with wheat, pulp, paper, lumber, fish, coal, anything at all of which the country issuing the note produces a surplus for export. The way to right adverse exchange is to speed up production, so that rate is always low.

The marked change brought about by inoculation has made the word, at least, familiar to the word, at least, familiar to the public, although, possibly few and though possibly few and the properties of the pr

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