(onservation

a monthly bulletin published by the Commission of Conservation Ottawa, Canada.

VOL. VII

APRIL. 1918

No 4

Electricity and Gas as Domestic Fuels

Figures Showing Comparative Cost which are of Interest to Every Householder

Electricity has not proved generally feasible for domestic heating, but, as a consequence of gradual improvements, it has become a keen competitor with other fuels for cooking. Its convenience and efficiency for this purpose are well known, but not many people are aware of its low cost as compared with other fuels.

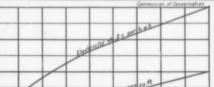
The above chart shows the monthly cost of electricity and of gas for cooking for a family of from 2 to 10 persons, the cost for electricity being figured on rates of 1e and 2e per kilowatt hour, and that for gas at \$1 per 1,000 cubic feet.

For instance, for a family of five, the monthly cost for cooking only would be \$1.80, using electricity at one cent per k.w.h., as compared with \$2.05 for gas at one dollar. but, on the other hand, if the cost of electricity is two cents per k.w.h., the monthly bill would be \$3.60.

The chart was compiled from figures given by the Hydro-Electric Power Commission of Ontario. The Commission operates a number of gas plants in addition to its extensive system of electric distribution and is thus in a position to collect authoritative information enabling a comparison of the cost of the two fuels for cooking purposes.-L.G.D.

Nearly \$300,000 Fire Loss in B. C. Forests

The fire season of 1917 was an unusually severe one in British Reports made to the provincial Forest Branch show that exclusive of the railway belt, a total of 986 fires occurred. In fighting these fires, the Forest Branch expended \$88,246. total area burned over was 236,186 acres, of which only 2,825 acres merchantable timber land; 16,226 acres contained valuable rection, and 159,386 acres were classified as cut-over, old burn not restocking, or unmerchantable mature timber. The total damage is estimated at \$291.726. The staff of the Forest Branch has suffered severely through enlistment for overseas service.—C.L.



Number of persons in family

COMPARATIVE COST OF GAS AND ELECTRICITY FOR COOKING Cut No. 169

Electric Traction May Supersede Steam

Low Efficiency of Steam Locomotives and Goal Shortage may be Determining Factors

The electrification of steam railways would undoubtedly effect a great saving in coal. At present, the steam railways require about six pounds of coal to produce one horse-power hour. This is about three times the quantity which would be required to produce the same amount of power in a modern central steam power station. As the efficiency for the conversion of energy in the coal to mechanical power for steam locomotives is less SurveyWater-powers than five per cent, therefore, if every pound of coal now utilized for steam traction were converted into power, even on a basis of 50 per cent efficiency, it would be used ten times more economically than when burned under present conditions on steam railways.

In a recent address before the American Institute of Electrical Engineers, President E. W. Rice showed that with electrified railways the coal shortage and the 'heatless days' of the past winter would probably not have occurred at all. The situation was not so much due to lack of production, as to the failure of the agencies of distribution, which would have been largely prevented if the railways of the country had been operated by electricity instead of steam.

It has been estimated that the substitution of electricity increases the available capacity of existing Seeds are scarce this year and tracks fully 50 per cent. Again, 16 will be scarcer next. Growyour own.

per cent of the capacity of our steam railways is taken up by the coal required for their own consumption, and in extremely cold weather, when coal is most needed. steam locomotives are at their lowest efficiency.

Electrical traction is an accomplished fact. No other sphere affords an opportunity for such a saving of fuel as the replacing of steam locomotives by electric. At the present time, the railways of Canada use, annually, approximately 9,000,000 tons of coal, or about 4,000,000 tons more than the total required for domestic heating.

of New Brunswick

Commission of Conservation Will Soon Begin, Coal Shortage Shows Need of Development

The Commission of Conservation will shortly undertake an investigation into the water-powers of New Brunswick that are capable sportsmen, as opposed to the marof developing any considerable ket hunters and game hogs,' and amounts of power. The recent coal of the public generally, steady proshortage has awakened the province gress has been made. to the fact that its water-powers are not being adequately utilized and several Boards of Trade in the province are urging that the larger undeveloped powers be developed and that, as a basis for such action, a thorough investigation of waterpower conditions be made. interned alien labour be used in the work of development.

Relaxation of Game Laws Inadvisable

Work of Years Would be Undone and Food Supply Would Not Be Materially Increased

The searcity of food has resulted in various government organizations, directly concerned, being flooded with suggestions for the relaxation of game laws, and the Commission of Conservation has taken some pains to ascertain just what effect such a course would The conclusion reached is that it would have no appreciable effect in relieving the shortage of meat and would result in the very serious depletion, and in some cases the total extinction, of valuable game species. Many well-intentioned persons in making such suggestions overlook the fact that wild game, once it is depleted to a certain point, will, even under natural conditions, continue to decrease until extinct and can never, as in the case of domestic animals, be restored

Dr. C. Gordon Hewitt, Dominion Entomologist, in referring to such proposals, said in part: these suggestions are undoubtedly made with the best of intentions, they would, if put into practice, undoubtedly result in consequences of a most serious nature which are not realized by those unacquainted with the present status of our wild life and with the progress of game legislation and its enforcement. The chief cause of depletion has been either the absence of game laws or laxity in their enforcement. The struggle to prevent extermination has been very uphill work, but, owing to the attitude of the real

"To relax these efforts at the present time would more than undo the results of the hard work and effort of years and would be catering to those individuals who have been the greatest enemies to game conservation, men who are entirely selfish in their point of view and suggestion has also been made that who have very little interest in the welfare of the country as a whole. In the West, this class is largely made up of foreigners. To all these Seeds are scarce this year and persons who violate the game laws

(Congluded on page 14)

Saving the Forests of Ontario from Fire

Effective Measures Now in Force to Save the Remnant of the Wood-lands of the Banner Province

Great strides towards effective forest fire protection were made in Ontario last year, under the Provincial Forestry Branch, notwithstanding that the transfer of authority over this work was not made until a relatively late date. About 1,100 men were engaged in this important work, including fire rangers, inspectors and head office supervision. The organization is to he further extended during the coming season, and the supervision will be stricter. Increasingly efficient results may be expected from year to year, as the men become better trained and incompetents are weeded out.

A total of 1,110 fires were reported, of which 68 per cent occurred before July 1. Of the fires attributable to railways, 60 per cent occurred along the National Transcontinental. Settlers clearing land were charged with 91 fires, and negleeted camp fires with 154.

The total area burned over was 384,164 acres, of which 19 per cent was timber land, 39 per cent cutover land, 20 per cent young forest growth, and 21 per cent barren. The total amount of timber damaged was estimated at about 15 million feet, in addition to 91,246 cords, mostly pulpwood, and 781,-685 ties

Material progress has been made in the construction of permanent improvements, such as lookout towers, trails, telephones and portages. A beginning has also been made in securing the disposal of logging slash where this constitutes a danger to life and personal property, as is frequently the case in the clay belt. Some 3,500 permits were issued for the burning of settlers' clearing slashes. This means a very great reduction in the danger of fire escaping and causing damage, to say nothing of loss of life.

Ontario has now definitely taken its place alongside the other governmental agencies throughout Canada that are adopting up-to-date methods of organization and policy for the reduction of the enormous forest fire losses which have proved so costly in the past.-C.L.

PROPAGATING WHITEFISH

Michigan each spawning season catches a large number of whitefish to supply their several hatcheries with spawn. It has been found that this is a better way of propagating the fish than to let them spawn naturally, for the reatil the young fish are large enough

U.S. Food Board Upholds Game Laws

Saya Letting Down the Bars Would Destroy Valuable National Asset

The United States Food Administration has carefully considered increasing the food supply by relaxing the game laws and has de- high in price this year. On this cided against such a course. In a statement recently issued it refers pare the soil well to receive the to the strenuous efforts made by the various States to husband and increase the game supply, to the Small seeds, such as clover and action of Congress in concluding a Migratory Birds Treaty with Canada to further the same purpose, and states that "it has reached the eonelusion that the maximum supply can best be obtained by constantly increasing the breeding reserve of game under present and even more progressive laws directed toward that end. . . . Any effort to weaken the present laws or in any way relax them in one locality would immediately lead to a demand for such relaxation of laws ground nothing can be done that in all other localities insuring a rapid breakdown of the whole legal structure of present game protection erected after efforts extending over numerous years.

"Once the perfected laws were relaxed to the point where game could be killed more freely, notwithstanding the fact that numerous gunners have gone to war, the game would be quickly destroyed by largely increased numbers of local gunners using modern methods of transportation and highpowered fire-arms. The present game supply of the country should be considered in exactly the same way as that of domestic stock and fowls, the breeding reserve of which should be increased to insure increased supplies for food.

. Since an attempted relaxation of laws would tend toward a rapid destruction of game, no emergency has as yet arisen sufficiently acute to warrant the Food Administration advocating the destruction or impairment of game which forms a valuable national asset.

Relaxation of Game Laws (Continued from page 13)

on all occasions, food conservation has no meaning and any relaxation of the game laws would simply The State fish department of legalize their destructive tendencies to the detriment of the rights of game and the rights of those who are accustomed to observe the law.

would be obtained would be comparatively small, but the destruction involved in obtaining it would benefit from this important by-proson that carp and other 'cannibal affect, in the most serious manner son that carp and other cannot possible, the future of our game rish' eat the spawn in the natural possible, the future of our game vator. The results will be looked haunts, while, in the hatcheries, the lanimals. In cases of absolute want spawn is, of course, protected un- or necessity it is always possible for the provincial game officers to referred to, may be obtained from

Factors in Production

5. Tillage to Save Seed

Corn, clover seed and some of the cereal grains are very scarce and account it would seem wise to preseed. If soil conditions are made favourable, less seed is required. grass seeds, will give a higher percentage of germination if sown in carefully prepared soil which will permit of the soil grains packing in closely around the small seed, so as to convey the moisture necessary for germination. Any of the farm seeds, in fact, will germinate better in finely pulverized soil than in rough, coarse clods. Use the proper implements at the right time to most effectively fine the land. After the seed is in the will wholly make up for a lack of cultivation before sowing the crop. While early seeding has given uniformly better results for a long period of years in experiments conducted at the Ontario Agricultural College and is thoroughly desirable, it is not wise to sow expensive seed on land not properly prepared. Good preparation of the soil must be combined with good seed and early seeding if maximum results are to be secured. Maximum yields are needed this year more than ever before in order that we may feed the Allies 'over there' and Canadians in Canada.-F.C.N

VALUE OF GRAIN SCREENINGS

of the Department of Agriculture, at Ottawa, published a bulletin on the feed value of grain screenings, which included the results of feeding tests undertaken by the Experimental Farms Branch. Owing to the growing scarcity of feeds, the elevator operators have paid more and more attention to these screenings with a view to preventing the waste of any small or broken grains or weed seeds that might be used for feed. As a result, the lower grades of screenings are now composed almost entirely of very small weed seeds, which are very difficult to grind properly and are not relished by stock unless mixed with other feeds. At the present time, the Feeds Division of the Live "The amount of wild meat that Stock Branch is making a further careful study of the question with a view to obtaining the maximum duet of the farm and the grain eletitled "Grain Screenings," already to protect themselves.—The Fishing Gazette.

make special arrangements under the Publications Branch, Department of Agriculture, Ottawa. ment of Agriculture, Ottawa.

Another Industry May Start in Canada

Manufacture of Safety Lamp Glas-Possible—Bureau of Standards Necessary

Previous to the war, the miner's safety lamp glasses used in Canada were imported from Germany and Austria. They are made from a special kind of glass having a high resistance against breakage from blow, or sudden change of tempera ture. The material used in safety lamps must necessarily be of a high quality as a defective lamp may the means of causing a mine er plosion. The United States wa also dependent on enemy countries for supplies of safety lamps and lamp parts, but, through the co operation of the Bureau of Standards and the Bureau of Mines these are now being manufactured in that country.

b;

p

d

fı

n

al

w

111

n

n

al

fa

st

sh

th

hi

th

ri

fo M

The price of safety lamp glasse has increased from \$6.50 per 100, before the war, to nearly \$10 f.o.b. New York. The demand for them in Canada is increasing year by year, and the present requirement are in the neighbourhood of 50,000 glasses per annum. There are number of glass manufacturers is Canada and the production of these glasses would not only prove to be an additional source of profit to the manufacturer, but would also make Canada independent of foreign sources of supply.

Safety lamp glasses and many other imported products now used in Canada may, or may not, have been standardized in Germany, the United States and elsewhere. is intended to manufacture these products in Canada, it will be necessary, however, to provide some means for guaranteeing their stan-Three years ago the Seed Branch dard of purity. The importance of this subject, and the increasing purchases made by the different departments of the government, de monstrate the value of a Canadian National Bureau of Standards. similar to that in the United States -WJD

A Handbook for Farmers is a very useful booklet that has just been issued by the Commission of Conservation. It treats of tillage use of manures, seed selection clover growing, the farm garden weeds and insect pests, and other farm topies, in an informative as well as popular manner. The quantity is limited and the booklet wil be supplied on request only to bone fide farmers.

FOR FARMERS ONLY

Arrangements are being made by the Western representative of the Food Controller which are expected to insure a plentiful supply of fish for Saskatoon and Regina. Efforts will be made to make it possible for householders to purchase fish at 121/2 cents a pound.

Commission of Conservation HEAVY WASTE IN CANADA

SIR CLIFFORD SIFTON, K.C.M.G. Chairman JAMES WHITE Assistant to Chairman and Deputy Head

CONSERVATION is published the first of each month. Its object is the disseminaresources of Canada, their development and proper conservation, and the publication of timely articles on town-planning and public health.

The newspaper edition is printed on one side of the paper only, for con-venience in clipping for reproduction.

OTTAWA, APRIL, 1918

FARM TO FAMILY

the price paid for a bag of potatoes by a Kingston lady, according to a recent press report. One of the potatoes had a card attached signed by the farmer who grew them, which said: "I sold at \$1.00; what did you pay?" Here again we are faced with the ubiquitous middleman, concerning whose elimination much ink has been shed. Now there are middlemen and middlemen, which is to say that some middlemen are necessary and some are not, and the best way to find out whether a given middleman is necessary or not is to try to get along without him.

The farmer and the city householder are generally supposed to be the worst victims of the middlemen and, if the victimizing can be lessened in this case, there should be some hope in others. Here is a suggestion looking toward the accomplishment of that end. Let the newspapers in the larger centres of population feature a "Farm to Family" section in their condensed want ad. page. This would carry advertisements of farmers who had produce to sell to the city consumer and also advertisements of the consumer who wanted to buy from the farmer. To get the movement started, a half-price rate might be offered and the new departure should be well advertised in the news columns of the paper.

The advertising manager having the courage to make this venture would gain considerable fame for his paper and would also prove conclusively whether the farmer and the consumer really do want to get rid of the middleman .- M.J.P.

Canada burns 30,000,000 tons of coal every year, of which 60 per cent comes from the United States. The consumption may be accounted for approximately as follows:-Manufacture of coke, 2,000,000 tons; railway locomotives, 9,000,000 ons; collieries, 1,000,000 tons; bunering ships, 1,000,000 tons; domeshe heating, 5,000,000 tons; industrial heating, 6,000,000 tons; and industrial power, 6,000,000 tons.

LOBSTER CANNING

The lobster industry as now conducted utilizes only 20 per cent of the chief objects of ploughing are the raw material it handles, a Nova to destroy wild plants so that cul-Scotia authority on lobster canning tivated ones may take their place; estimates. An average season's and to bury trash, manure, stubble pack of 160,000 cases requires 25,-500,000 lbs. of lobsters, of which only 6,500,000 lbs. go into the cans. faulty. All refuse should be com-The remainder is wasted, although it could be converted into a valuable by-product.

Co-operative Fire Prevention in Quebec

What the Associations Are Accomplishing

Co-operative forest fire protec-Two dollars and forty cents was tion has proved remarkably successful in Quebec. Four associations are now in existence, patrolling an area of more than 44,000,000 acres of licensed and unlicensed Crown lands and Crown granted lands. About 80 per cent of the licensed Crown land is represented in the membership of these associations. A considerable additional area is included within the boundaries of the respective associations, the owners of which have not yet seen fit to acquire membership.

The season of 1917 saw relatively little damage by fire to the forests of Quebec, due, in part, to favourable weather conditions, but largely to the efficiency of the patrol system. Only 453 fires are reported, burning over 16,488 acres, of which only a small percentage was merchantable timber, mostly on privately-owned land. The total expenditures by the four associations for patrol, supervision, firefighting, and permanent improve-

ments, was \$137,093.

The regulation of settlers' clearing fires under the permit system has again proved highly successful. More than 5,000 burning permits were issued by the association rangers. Practically no damage was done by clearing fires set un-der permit. In a few cases, however, fires were set without permit, grants for the purpose of research eausing some damage. In a number of such cases, convictions were better methods of heating and secured in the local courts. The improvement in the ventilation of settlers, as a rule, are co-operating dwelling rooms, and of atmospheric heartily in reducing the fire loss, pollution, the causes for producing and the number of violations of the permit law is decreasing steadily from year to year .- C.L.

WHAT THE PLOUGH IS SUPPOSED TO DO

Aside from crumbling the soil, and potato vines. A plough that does not accomplish these things is pletely covered so that it will not be brought to the surface by the To bury weeds, clover or other tall green manure crops, a the blunder. From the nature of chain should be used, one end attached to the plough beam, the other to the double tree, thus allowing the loop to pull the tall plants At the same time, the mines of down into the furrow to be covered. The jointer or skim-coulter is little used in many districts. Many farmers do not even know what it When manure, stubble or grass is to be turned under, it is a very useful attachment. It skims a shallow furrow slice and deposits it in the bottom of the furrow. where it is covered by the main furrow slice and will rot more readily. When stubble or grass is ploughed without a jointer, there is likely to be a line of it between the furrows, which interferes with the harrow or begins to grow and eause trouble. This is a common sight, but could, and should, be overcome by the use of the jointer. The implement dealers of the country could perform a distinct service to agriculture by encouraging the general use of jointers on ploughs. There should be one on every farm.

It is well to have various types of ploughs for the various kinds of land to be ploughed. This costs more, but greater efficiency results. A sod plough will not do good work in soft stubble lands, nor will a stubble plough perform well in stiff sod.—From "Handbook for Farmers," published by the Commission

of Conservation.

The Advisory Council for Scientiinto the questions of the use of it, its results on public health, buildings, etc., and the value of various means of counteracting it.

FOREST PROTECTION ASSOCIATIONS IN QUEBEC, SEASON OF 1917

Name of Association	Area patrolled	Amount expended	Number of fires	Acreage burned	Settlers' permits issued
Ottawa River— Eastern division Western division St. Maurice Laurentian So. St. Lawrence—	8,446,400 12,521,120 0,049,645 7,586,344	\$22,604 42,753 32,564 20,541	108 28 217 52	8,871 607 4,341 2,340	1,181 1,406
Western division Eastern division	2,672,989 4,089,511	6,883 11,748	5 43	9 320	700 1,952
Totals	44,366,009	\$137,093	453	16,488	5,239

Old Railway Ties For Next Winter

Investigation Shows Most Railways Willing to Make Them Available

It is none too soon to take hought as to the means for keeping warm next winter. Lack of foresight in the matter of securing fuel caused much loss, suffering and inconvenience during the winter just passed, and it would be bordering on the criminal to repeat the situation, there can be no assurance of an adequate supply of coal coming from the United States. Nova Scotia are facing a probable falling off in production for this year, coupled with a marked increase in consumption in the Maritime Provinces. Ontario and a portion of Quebec should, therefore, seek out every available substitute.

One possible substitute that is capable of more general utilization is worn-out railway ties. In many instances in the past, these old ties have been piled in heaps along the right-of-ways and burned. In the average year, the New York Central railroad destroys 1,750,000 old ties, an amount estimated to be the equivalent of 30,000 tons of coal. The N. Y. C. company has given instructions that all old ties be made available for fuel and it is obvious that the release of such an amount of wood will be a very important addition to the fuel supplies of the area traversed by their

With a view to ascertaining what is being done with such materials in Canada, the Commission of Conservation recently communicated with the officials of a number of the leading Canadian railways. Replies from the Toronto, Hamilton and Buffalo, Quebec, Montreal and Southern, Quebec Central, Michigan Central, Grand Trunk Pacific, Grand Trunk, Dominion Atlantic, Canadian Pacific, Canadian Government and the Canadian Northern railways demonstrate that the former practice of burning ties on the right-of-ways has been stopped and that the employees of the companies and others living near the lines are allowed to remove old ties for fuel, under certain necessary restrictions.

Certain factors, such as the question of expense in collecting the ties and the scarcity of labour, must be taken into consideration in any attempt to extend the use of old ties for fuel. But a solution can be found for these and other kindred difficulties and the railways have indicated their willingness to co-operate to the fullest extent .- A.D.

Human reconstruction is one of the major tasks imposed by participation in the war.

City Boyson the Farm

Conditions Under Which The Work Should Be Watched

The draining of the country of labour available for farm work has attracted attention to the potential value of the boy in his 'teens' as a means of overcoming the labour shortage. For the past two seasons, many of these boys have undertaken farm work during vacation, and many have, by special arrangeregarding examinations. ment gone on the farm early in May or June. They have thus accumulated considerable experience of farm work, and should be of great assistance this year.

Better organization methods are required, however, than has been the case in the past. The boys do not come under the class of farm labourers; they belong to good homes, and volunteer for farm work only to help in the important campaign for greater production. In too many instances they have brought back with them from their summer work recollections which do not act as an incentive to undergoing further experience of the

same kind.

Some form of registration and inspection of conditions under which these boys are placed should Comfortable quarters be made. and good meals should be available. These are necessary to growing boys. The hours of work should be limited, rate of remuneration should be a definite and clear-cut arrangement and they should be encouraged to learn farm work. In other words, the boys should be permitted to see the bright side of life on the farm as well as that which may not be so attractive.

to cultivate her broad lands, and could be bought at weaning time, satisfactory experience on the farm and fed during the summer, mainduring school life may induce many ly on kitchen and garden refuse. boys to follow the vocation of In the autumn, the meal ration

farming in later days.

MORE VARIETIES OF FISH SHOULD BE EATEN

Board of Canada in publishing a settlements, at cross-roads and elseseries of pamphlets in a popular where, who could and should help style, dealing with food fishes, is in this matter. Do not allow kit-to be commended. The first of chen refuse or garden weeds and these pamphlets, entitled "The Canadian Plaice, was issued recently from the University of perly kept in a pen, away from Toronto Press, and others in the series are to be published in the freedom of the house after he has near future. Canada possesses a very varied fishery, but only a comparatively few species have been exploited and, in some instances, these have already been over-exploited.

DIED ON ACTIVE SERVICE

Private James Carroll, for some years a member of the staff of the Commission of Conservation, has been officially listed as "presumed to have died." Private Carroll enlisted with the Duchess of Con-naught Irish Canadian Rangers and has been missing since August 15th, 1917.



Now, BRING ON YOUR GARBAGE

Cut No. 176

Backyard Bacon

Have You a Little Pig in Your Backyard? If Not, Why Not?

An increase of 25 to 30 per cent in the number of hogs in 1918 as little piece of ground around their compared with 1917 may be con-homes will be surprised at the fidently expected, the Dominion amount of food which can be secur-Live Stock Commissioner reports. ed from a few square feet of land. This is a splendid response to the general appeal made to farmers to the conferences held during 1917 to further increase bacon production.

The farmers of Canada took this first step towards increased bacon production in the face of an acute feed situation. Many of them knew that they would not have enough feed to properly fatten all of their extra young pigs. These pigs must be fed and cared for, and many householders in Canada could help Canada is badly in need of men by keeping one or two pigs, which could be increased for the purpose of properly fattening the pigs for killing.

There are thousands of people The action of the Biological around small towns, villages and in this matter. Do not allow kitwaste to go unused. It is much less unsanitary to have a pig, prothe house, than to allow a dog the been 'investigating' your neigh-bours' garbage. Here is an opportunity of service without sacrifice. It is past the time for doing our 'bit'-it is now time to do our 'best.' Get a place ready to keep a pig.—F.C.N.

GARDENS

Out of the garden and on to the table, without having to lie wilting in farmers' wagons from the day before or exposed for sale in shop windows! How much better our vegetables would taste, how much Make each cow pay. -C.F.W.

more wholesome, and how many more would be eaten, if we had them growing in our backyard.

To cultivate a small patch is not a task-it is a pleasure, and the development of the crop is a study that is in itself interesting. Many who this year will cultivate that

Canada needs your help in increasing the food supply. keep and breed extra sows, and to needs men, she needs money, but what are men and money without food, and if, by the cultivation of only a small area, you can reduce the demand upon the general supply, it will by just that much be a benefit to Canada.

Canadians eat too much meat. greater use of vegetables would tend to better health for many. By growing vegetables, that they may be available during the summer months, many families will reduce their living expenses and be the healthier for the effort.

IS IT NOT CURIOUS?

grade cow, eight years old, near Woodstock, Ont., that freshened last November, has given in eight months 13,092 pounds of milk, testing over 3.2 on the average, and having a spot cash value of \$288.57. She is still giving 34 pounds of milk a day, and is due in November again. Such a cow is a source of perennial pride to her owner, who weighs the milk from each cow he has, because he finds it pays.

But is it not curious that many dairymen never bother to weigh it, and so remain quite hazy as to each cow's performance? It is curious, too, that so many are content to bother with a herd not one of which has even a remote chance of giving one-half of what this fine cow gave in eight months.

Milk record forms will be gladly supplied free of charge by the Dairy Division, Ottawa, to any one enterprising enough to want to find out what each cow actually produces in return for all she eats.

Sport with Knife and Fork Or a New Way to Beat Germany

'Certain hotel proprietors from the Atlantic states, market hunters from Louisiana. and other votees of sport with knife and fork are advocating, as a food conse vation measure, letting down the bars on the sale of game. Hoover, it is said, is being bon barded with patriotic telegram from these gentry, telling him ho to win the war by restoring Bol white-on-toast and broiled mallar with-wild rice to the bill of fare the poor starved gourmands w frequent their respective hostelries

A broiled mallard at \$3.00 pa portion is truly a deadly weapo It takes five shells at 5c each to ki him in the first place, together wit the labour of the market hunte who ought to be sniping Germa or raising beans. Then it takes te pounds of ice and a snug corner in freight car, a chef on a princely salary, and half a dozen flunkies to deliver his carcass f.o.b. the starving jaws of said gourmand for con sumption. Finally, a pint of wine i necessary to make the poor fellow realize he is eating, a dollar exit fe to enable him to get away with hi spoils, and not infrequently a doe tor to tinker him into shape to starve along until the next meal There is no denying the fact that said \$3.00 mallard might save s mess of terrapin or sweetbreads, or a lobster, or a fillet of beef for the French, and at the same time give highly profitable employment many otherwise useful persons.

"It seems to us, however, that these double chinned gentleme who wish to avert starvation marketing our slender stock game have overlooked several other bets quite as good

"Perhaps they have heard cornmeal, or even partaken there Well, if we are to eat our seedstor of game birds, how about the se corn our farmers are so unpatrioti ally hoarding against the spring And, for that matter, why not te the lead roofs off of our pub buildings and melt them bullets? It might be possible f conservationists who have sp years of labour in saving for futu Americans a little of our wild to persuade these destructive triots that their proposition wrong, but it might be hard to vince them that it is also funny -The Pine (

CONSERVATION IN 1917

Conservation in 1917, the dress delivered by Sir Clifford ton before the Ninth Annual Me ing of the Commission of Consett vation, has been printed in pany let form and will be supplied request. It is a comprehensive view of the progress made in conservation of natural resour in 1917.

It is not so much money Canada wants to prosecute the as savings.