# (onservation

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# Helping to Relieve The Coal Situation

How Consumers May Assist in Preventing Coal Shortage Next Winter

> to the war, coal production exceeded consumption. Cony, considerable reserves were at strategic shipping points local, current demands. But e or less acute fuel situation ast two winters has witnessed umption of these reserves. No aks of building them up again e war is over, when transportalustrial and labour conditions e returned to normal. All that authorities expect of the mines duce a year's supply in twelve

It, therefore, follows that s for even 70 per cent of each r's annual supply cannot be once, so early in the season. orders will naturally receive ice however, as well as tending t congestion in transportation. g the spring, the output of the n the United States was not This has been steadily however, and there is ble grounds for hoping that ply, for household purposes rate, may be sufficient for the Of course in war-time may happen over which even ents have no complete control. nay cause at least a partial fallin production, or difficulties in coal distributed.

s too, may be reasonably exto be higher than in former as in the case of practically all indispensable commodities.

these reasons, therefore, if for er, consumers should obtain utes, such as soft coal, wood. etc., to as great an extent as At the same time, efforts be made to cut down actual nents of fuel to a minimum. uite needless in many instances trict, Ontario. The ole houses to be heated throughwinter. By comparatively inive changes in plumbing during nmer, rooms that are little used sed during the winter months. have their heating appliances ed so as to be turned on or off Or, if this be not feasible, ors in sun rooms and unused could be carefully wrapped so conserve heat, while preventing ag of the radiators. By such te the heads of the Fuel Boards winter may largely vanish. -4. D

## Was Laughed at For Twenty Miles Around

ancially," said a city man who had of sand dunes. Only the eastern porappreciatively to the Farmer's Account Book recently issued by the Commis-Ontario within 100 miles of Toronto. The first question I asked every man who wanted to sell his farm was, 'How much do you make off your farm every year?' and I don't think there were a dozen who could tell. Probably that try and poverty is very rare. Owing was the reason many of them wanted to sell. I asked the man who owned the farm I bought, and he replied that he had made all the money he had in the bank. That wasn't much information; but I found out before buying

(Continued on page 30)

# What Co-operation Did in Denmark

Denmark is a little more than one-"Few farmers can tell at the end of half the size of New Brunswick. At bouring islands were considered fit for agriculture. In addition, the counprovince of Schleswig-Holstein by is the wealthiest country in Europe. result. It is essentially an agricultural coun to the excellent system of land tenure. 89 per cent of the families own their own farms and houses.

One of the chief reasons for Den-

(Continued on page 30)

# Machinery Used To Fight Forest Fires

Railways and Protective Associations Use Tank Cars and Portable Outfits

Mechanical equipment has demonfighting tank car, equipped with 4,000 Forest Branch, Ontario

ft. of 2½-in. hose, hose rack and Branch, Canadian Pacific Railway pump, maintained by the Canadian Forestry Branch, and by the St. Pacific railway for

lower illustration shows the equipment in actual use at a fire in cutover forest lands, where the debris on the ground constitutes a source of great fire danger.

Tank cars and pumping outfits are also in use, to a limited extent, on portions of the Grand Trunk, Transcontinental and Timiskaming and Norstrated its value in controlling forest thern Ontario railways, and have fires and its use is rapidly increasing, thoroughly demonstrated their effectnow that labour is scarce and it is iveness. Portable pumping outfits for often difficult to assemble men forest protection purposes, are used by promptly to prevent a fire spreading. the Dominion Parks Branch, Domin-The upper illustration shows a fire- ion Forestry Branch, British Columbia

# Points to Observe in Buying Fillets of Fish

City Man Going on Farm was Ridiculed for Keeping Books.
Scoffers Were Converted

Nine-Tenths of Farmers Own Distinguish Between Good and Bad Fillets

Bad fish may be a very dangerous a year exactly where they stand fin- one time much of it was a bleak waste food and has the faculty of producing a complete knockout, of sometimes several days' duration. In these days. when the cost of living is high, housewives are looking for meat that will hook recently issued by the Commission of Conservation. "I think I try was impoverished by the Napol- be inexpensive, and naturally think looked at fifty farms in all parts of eonic wars and by the robbery of the cheapness of this article. But what Germany in 1866. Yet, to-day, Den- may appear cheap and good may prove mark in proportion to its population, to be very expensive if sickness be the

Because of the absence of bone and skin, fillets are easy to prepare for the table. It is not very difficult to tell if a whole fish is fresh, but when cut into fillets it becomes much harder. Fillets are frequently cut from fish that mark's phenomenal prosperity is to have been dead from ten to fourteen be found in the system of education. days, that is, from fish left over when all shipping orders have been filled. These fillets are then soaked in annato for a long time to take away the bad smell, which gives that yellow colour which is supposed to be due to 'smoke"

> To tell the difference between a fresh and stale fillet of fish is very simple. Fillets from fresh fish may sometimes appear "sweaty," that is, moist on the surface. They are, however, always firm to the touch, are not easy to break, and will leave the fingers clean. Those taken from stale fish, on the contrary, are always soft, easy to break, and when handled will leave the fingers sticky. Take a small piece between the finger and thumb and if it leaves a sticky feeling, that fish is not good. Then, if there is the least sign of a green-coloured streak, it is a sure sign that the fish was either stale when cut into fillets or had since been kept too long. This variety of fish will keep for only a few days when put up under the best conditions, and, if exposed to air in a warm place, will quickly develop small white maggots.—Toronto Health Bulletin.

Conservation necessarily means more public ownership, more public business; this means a demand for better government; and this means giving men a real career in the public service.-Richard T. Ely.

Community canning clubs have been formed in Victoria, B.C., and Brantford, Ont.



# Railway Assists in Protecting Forests

Text of Order to Section Foremen in Quebec

A circular of instructions issued by the Roadmaster of the Canadian Northern railway at Quebec to section foremen between Quebec, La Tuque and Chicoutimi, illustrates well the modern co-operative attitude of railway companies in forest protection Experience has shown that it is to the advantage of the railways to co-operate closely with the forest protective associations, and with the provincial and Dominion forest services in this work and that excellent results are secured in this way in reducing the forest fire losses. The circular in question is as follows:

Quebec, May 17th, 1918

Circular No. 20 ALL SECTION FOREMEN:

In case of fire I want you to assist the fire rangers when called upon.

According to an arrangement between this company and the heads of the St. Maurice and Laurentian Forest Protective Associations in connection with the fire patrol and care of fires in every respect, you will arrange to co-operate with these people by all possible means, therefore, should the fire ranger happen to call upon you for assistance, do everything possible to give him what assistance you can and as quickly as you can, because, by acting promptly, fires are often controlled before any material damage is

It has also been arranged with fire rangers in certain districts to assist the section foremen in burning grass, old ties, etc., this with a view of showing sectionmen the proper methods of doing this work, and as you are aware many times when foremen undertake to burn the right-of-way, they do not always take all the necessary precau-tions to look after the fire and in many cases this involves a lot of extra work, due to carelessness in burning the right-of-way.

The object in co-operating with the men employed by the associations named above, is to learn the best methods and obtain the best results, as well as eliminating a lot of trouble. Therefore, I trust you will give all necessary assistance when called upon and be governed by their instructions with regard to fires in the future. As these people are desirous of assisting us in our work we should also be anxious to assist them in carrying out their part.

H. B. CASSIDY, Roadmaster.

Oxford county, Ontario, produced eight and a quarter million pounds of cheese in 1917 as compared with ten and a half million in 1910. county also has five milk factories of fairly recent establishment.

The Ontario Railway and Municipal Board has issued an order limiting the use of natural gas. No consumer may use more than 5,000,000 cu. ft. a year.

# Laughed at for 20 Miles

(Continued from page 29) his place that he had quite a snug sum

"When we took up farming, all the neighbours watched everything we did, and many of them thought we were crazy. Now those are the ones who come over to see how we are doing things. When some of the neighbours

would drop in at the week-end and see my wife and myself entering up our farm accounts, they went away and joked about it for 20 miles around. But at the end of last year when I could stand up and tell them what the farm had cost, what we got back, and our net profit, they became interested, and now some of them are keeping close tab on their incomes and

expenditures.

in the bank.

"On the other hand, there are farmers-and they are the most successful ones-who keep accounts as they should. If farming is run as a business, it should be run in a business-like way. But you've got to show farmers that it is to their advantage to keep accounts. They've got to be shown that they can't keep accounts in their heads. They may say that they haven't time to keep books; but if they would only start, they would find that it takes only about half an hour a week to itemize the memos made during the week.

'They also should keep track of their living expenses. For instance, if we take half a dozen eggs for a meal, they are charged against household expenses. If we dig up a peck of potatoes, they are charged up; if we cut ten cents' worth of lettuce, it is charged up. Farmers would think that was foolish, and perhaps it is for a farmer; but we do it in order to see how much cheaper it is to live in the country than in the city; for we live in Toronto during the winter.

"Another thing every farmer should do is to have a plan of his farm, showing every field-not necessarily an elaborate blue-print, but a rough sketch. He then can sit down and can plan his crops for four or five years ahead, marking each field on his diagram with the crop to be grown each year."

What Co-operation Did (Continued from page 29)

This includes the long-term elementary schools, circulating schools, travelling experts, school and state bul-letins, farmers' clubs, educational camp meetings and the University of Copenhagen. There are now 70 high schools and 29 agricultural colleges in Denmark and old as well as young people attend them-the former for periods of a week or two at a time for the purpose of studying social problems and kindred subjects as they appear in other countries all over the After completing the high world. school and agricultural college courses students enter the University of Copenhagen. There they come to understand the complexity of modern business and to regard agriculture not only as a science of production, but as a system of distribution.

The success of rural co-operation

Co-operation cannot well succeed in a country where tenancy predominates. In Denmark, legislation has been in operation for a number of years providing for the acquisition of land upon 50-year loans at four per cent. At this rate, a labourer who has one-tenth the purchase price of a parcel of land can borrow the other nine-tenths, either from a state bank, or from one of the 536 cooperative savings banks. There are approximately 240,000 farms in Denmark, averaging a little over 40 acres each, and varying in size from 11/2 acres to 150 acres, not including a few large estates. Thus it will be seen that land is not so evenly distributed as to destroy personal initiative, one of the dangers pointed out by the opponents of co-operation. On the contrary, co-operation in Denmark has encouraged personal initiative and, in doing so, has checked the evils of individualism, a most important and beneficent result.

Agricultural co-operation began in Denmark in 1882 when the first cooperative creamery was established. Practically all the milk produced is now handled by the hundreds of cooperative dairies. These, with the aid of cow-testing associations have made Denmark one of the leading dairy countries of the world. Danish butter has, for a generation at least, commanded a premium on the British Then, too, co-operative market. bacon-curing and egg-export societies have developed the pork and poultry

industries respectively in splendid fashion. Co-incident with the growth of co-

operative marketing there has developed co-operative wholesale purchasing of such commodities as seeds, fertilizers, machinery, and, in fact, every necessity for the operation and upkeep of the farm. In 1908, the central wholesale agency transacted a business valued at \$17,500,000 .-

from Circular No. 259, Abstract Illinois Department of Agriculture.

# WINNIPEG REDUCES FIRES

In its recently published report on Fire Waste in Canada, the Commission of Conservation states that over seventy per cent of the fires occurring in the Dominion might be avoided by greater carefulness on the part of property owners. This conclusion is strikingly substantiated by a recent experience in the city of Winnipeg. For two weeks the Fire Department was on strike and the Citizens Committee of One Hundred in every possible way urged the exercise of extra vigilance by the occupants of property. As a result, there were only 56 fire calls and 17 actual fires, as compared with 127 alarms received during the corresponding two weeks of 1917. The prohibition of fireworks on Victoria Day was largely responsible for the fact that no alarm for fire was received on that day. This experience should prove instructive to every city and town in Canada .- J. G. S.

In New Zealand, where particular attention is given to child conservation, the infant death rate has been The success of rural co-operation depends in a very large measure upon pat has approximated 50 per the terms and conditions of land thousand. Factors in Production

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# 9. Parcel Post Marketing

Marketing is an important, and to often neglected, factor in production Unless the producer can place he commodity in the hands of the co sumer to the satisfaction of both pa ties in the transaction, production sure to decline. Further, it is des able for the producer to seek out t market that will yield him the b returns, not only for individual sale but for a series of transactions co ing as long a period as possible.

In the marketing of farm produce these elemental phases of trade as frequently neglected. Many farme are willing to accept what the local store or market is willing to offer for their produce. In such transaction it is seldom that an adequate allow ance is made for quality and for the reason the practice tends to stultif any effects at improving the produc In the past, distance from good ma kets, bad roads and poor accommod tion generally, as well as lack of co operation; have made it difficult. not impossible, for farmers to d other than turn their products over to a line of middlemen. This re sulted in the producer receiving min imum prices while the consumer for quently paid unnecessarily high one Where it can be applied, co-operation marketing tends to overcome these de fects. Frequently, this is not possible and in such cases, if the individu producer has not already a fairly sati factory market, he will find it great to his advantage to seek out new one For this purpose the parcel post should prove of great assistance. At first it may only be possible for the farme to deal with friends or relatives in th nearer cities. But gradually, b means of satisfactory service an judicious advertising, markets may be readily extended. Farmers neglected advertising too long.

The parcel post regulations in Canada permit the shipment of almost every variety of farm produce. packed according to directions, which can be obtained from any post office Parcels are limited in weight to elever pounds, so that such bulky products as potatoes can hardly be marketed to advantage in that manner. But butter, eggs, honey, meats, chickens, many kinds of garden truck and fruit can b shipped by parcel post satisfactorily

Housewives appreciate farm pro duce which they know to be fresh and the parcel post offers a means of direct dealing between producer and consumer with profit to both. Of course, the produce sold directly by the producer to the consumer will probably always be a comparatively small percentage of the total food supply, but the parcel post system is rapidly growing in favour in the United States and is well worth a serious trial in Canada .- A. D.

Buy War Savings Certificates.

# CANADA

SIR CLIFFORD SIFTON, K.C.M.G. Chairman James White Assistant to Chairman and Deputy Head

Conservation is published the first of Its object is the dissemach month. Its object is the dissem-lation of information relative to the atural resources of Canada, their deelopment and proper conservation, and the publication of timely articles town-planning and public health. The newspaper edition is printed on ne side of the paper only, for con-mience in clipping for reproduction.

OTTAWA, AUGUST, 1918

#### CONSERVE THE KIDDIES

There is a close relationship beeen an increased cost of milk and fant mortality. This was proved by e investigations last year of the Amican Commission on Milk Standards. It was found that the use of milk d been entirely discontinued in any families among the poor and its ace was being taken by baby foods, vaporated or condensed milk, potas, macaroni, tea and coffee. In ther families, cheaper milk of a poor ality had been purchased for infant The increased mortality om diarrohoeal diseases is believed be due in a number of cities directly the decreased amount of high-grade ilk purchased by mothers for infant eding as well as by the substitution cheaper grades of milk.

The work of the pure milk depots, spitals and other agencies that prode modified or certified milk for inints of all classes at reasonable rices is one of national importance nd value. The country as a whole ust assist in conserving the kiddies, it would do its duty on behalf of

#### WHO RUNS YOUR FARMP

"The government runs my farm, nd I am quite willing to let them do Thus spoke a farmer whose nancial credit balance is represented y six figures. He has made a prace of reading and adopting the reults of the government's experience the experimental farms, both Donion and provincial, and has been warded handsomely.

This farmer was instrumental in rming a farmers' club in his neighourhood and securing lectures by the avelling representatives of governent agricultural departments. He ok advantage of these by adopting e good points from each. A governent report advocated the installation lightning rods on farm buildings. e put them on his buildings and dvised his neighbours to do likewise. me of them followed his lead; others s buildings the following season by ghtning. Neither was he too proud make arrangements with the town

Commission of Conservation his seed that he could demand \$1.50 per bushel for his oats as seed, while

> Farming means production, just as truly as does manufacturing. The farmer, however, has an advantage must pay for his experience. If the results of his experiments are satisfactory, they may produce financial returns fully warranting the outlay. If they are unsatisfactory, the expenditure upon the investigation is lost, and, in many cases, means ruin. How different is the farmer's position! Canada is making the experiments for the farmer, Canadians-the manufacturer, the mechanic, and every resident out malice or suspicion, work together of Canada-are paying the cost of securing the experience by which the agriculturist may, personally, be the

It is only too true, however, many of our farmers neglect to profit by the help thus provided. Innumerable bulletins are left unread, and the information they contain is not utilized.

### DEVELOP THE FISHERIES

"Practically all fish are edible and in general they are equally nutritious, the chief difference in that respect being in the fat content, which varies not only with the species but season-That is the dictum of Dr. H. F. Moore, Deputy Commissionar, U. S. Bureau of Fisheries.

Surely it is a great misfortune that only a small percentage of the several hundred species and sub-species of fish to be found in the waters of the northern hemisphere find any demand on our markets, especially during the is a condition that has resulted from the conservative attitude of fishermen and fish dealers in failing to educate the public concerning the food value of hitherto unused species; and also in the proper methods of handling and cooking fish that require special treatment to prepare them for the table. Happily, the action of food boards in Europe and America is rapidly changing the situation. Already, many so-called "new" varieties of fish are finding their way in the fish markets and many others will in due time meet with a similar success. The time is most auspicious for a great expansion of the fisheries industry and it is devoutly to be hoped that those engaged in it will avail themselves of the opportunity.-A. D.

#### RURAL LIFE PROBLEMS

"Get together" is a useful and worthy motto for the farmers of Canada. Many of the disadvantages that have handicapped rural progress in the past have been the result largely of a lack of co-operation among farmers themselves. Local suspicions and diculed the idea, one of whom lost jealousies made mutual trust, the keynote of all co-operative effort, impossible. Happily, there are now many agencies at work that are each ore and livery to supply them with accomplishing something in changing raw free that he might haul away these conditions. Among these, the manure from their stables, and Rural Community Life Institutes in us keep his land up to the highest Ontario give promise of being of great

per bushel for his oats as seed, while his neighbour was getting but 65 cents. College. A series of conferences is held at strategic points throughout the province each year at which experts in agricultural work and conditions discuss with rural ministers, teachers over the manufacturer in that the latter leading farmers and others the methods must make his own experiments; he that experience has shown to be most valuable in bettering rural conditions. The interest shown in these meetings indicates that these community leaders recognize the existence of rural social problems and are anxious to find the wisest solutions for them. It will be a great day for Canadian agriculture and for the country generally when farmers will get together for the study of their common problems and, withfor the common good .- A. D.

## SALVAGE; OF WASTE

Applied science is capable of producing the most diverse results. As a factor in war it has devised and developed all manner of engines of destruction to such an extent that war and applied science now seem almost synonomous. Co-incident with that phase of its activities, it has led the way in conserving vast quantities of products formerly looked upon as refuse. In all the warring countries, strong organizations have grown up, each with a view to saving and utilizing to the best advantage, practically everything that formerly found its way to the incinerator or rubbish heap. Science and four years of war have rendered obsolete the advice to "burn all refuse". Waste paper, wood waste, tin cans, kitchen grease of all kinds, meat and fish bones, ashpit refuse, present world shortage of meats. It clinkers, etc., are all being used at a profit over the cost of transmuting them into useful materials. The result has been the conserving of basic materials as well as marked savings in shipping tonnage. Experience is constantly perfecting processes for the more economical handling of all such waste materials, so that in time the incinerator and town dump will be viewed as relics of a pre-war prodigality.-A. D.

> a unique but effective means of curbing profiteering in house rents. A board has been formed consisting of public spirited citizens of standing, including lawyers, real estate men, manufacturers and others who meet daily in sub-committees of three to liquid whatever. Tomatoes are an exhear complaints of tenants regarding extortionate rents. If a tenant makes out a case the sub-committee requests the landlord to attend to give his side of the case. If he refuses, or if a plain to add anything but one level teacase of rent profiteering is made out against him, all the facts are published and public opinion is allowed to do its work. The plan has proved most effective.

Prof. Robert C. Wallace, head of the Department of Geology and Min-eralogy of the University of Manitoba, has been appointed commissioner of Northern Manitoba. In his new posder it too much trouble to so clean work of the Department of Rural sources of Northern Manitoba. ition, he will be especially concerned

# CANNING DONT'S

Don't start canning until you have the right appliances.

Don't use old screw--tops. Buy new

Don't use old rubbers. New ones are cheaper than allowing fruit to

Don't use two-quart jars. Use quart size. Pint size is best for a family of not over five members.

Don't neglect cleanliness-clean person, clean room, clean apparatus, clean work. Cleanliness counts fifty per cent.

Don't plan to can more than three to six jars of fruit or vegetables the first day. Speed up gradually.

Don't assume that the water surrounding the jars will keep boiling without attention to fuel. The right temperature must be maintained for

Don't mistake simmering water for boiling water. "It was boiling just a minute ago", doesn't meet the requirement of boiling water at the moment of using.

# HOW TO CAN TOMATOES

Select fresh, ripe, firm tomatoes. Grade for size, ripeness and quality. They will cook better if the same degree of ripeness and quality, and will look better. Wash, scald one-half to one and one-half minutes or until the skins loosen, but do not break. Scald means to immerse in boiling water. Cold dip, but do not allow them to remain in the cold water. Cut out the stem end, taking care not to cut into the seed cells or the seed and pulp will later be scattered through the liquid. Remove the skins.

Pack the tomatoes whole in the jars, doing one jar from the beginning to New London, Conn., has adopted placing in sterlizer, before starting on another. Shake down well, hitting the base of jar with palm of hand, and also press with a tablespoon, but avoid crushing.

Do not add water. pulp may be added, otherwise add no ception to the general rule of hot water for vegetables and hot water or hot syrup for fruits. A large part of the tomato is water. It is not necessary spoonful of salt to each quart, and if liked, one-half tablespoonful of sugar. The tomato pulp for home canning, made from large and broken tomatoes, cooked and strained, should have one teaspoonful of salt to each quart, and should be poured hot into the filled jars, allowing it to enter the spaces.

Put on rubber and top, adjust top bail or screw top on with thumb and little finger. Sterilize 22 minutes in hot water bath, or 16 minutes under

# Government Railways Fight Forest Fires

Co-operative Effort on the Part of Government and Forest Service in Quebec

The management of the Government Railways is taking a much more active interest than ever before in forest fire protection along their lines, long a source of dissatisfaction to timber owners. Under a new arrangement between the management and the province of Quebec, protection will be furnished the forests along the Transcontinental railway, in the Abitibi district, between Parent and the Ontario boundary, hitherto afforded but little protection from fire. At the direction of the Minister of Lands and Forests, and with the co-operation of the Government Railways management, the Quebec Forest Service has arranged for the placing of five power speeders, with two men for each speeder, on the railway between Parent and the Ontario boundary.

This is a valuable pulp wood section, and the hazard is increased by the presence of many settlers, busily engaged in extending their clearings and marketing pulp wood, as well as in cultivating crops on lands already cleared. The danger from these settlers' clearing operations is minimized by the presence of some eleven fire rangers between Nottaway and La Reine, who patrol for fires and enforce the provisions of the law which prohibits the setting out of fires without a permit from a forest officer. Three portable fire pumps are to be pur-chased, with 1,500 feet of linen hose for each. Provision will be made at Amos for storage and maintenance of all this equipment.

The Government Railways management has also given the Quebec Forest Ontario Department of Agriculture, Service the authority to inspect fire- Toronto. protective appliances on their engines operating in forest sections in that province. The Forest Service has a special inspector for this and he will now divide his time among the Government Railways in Quebec, the lines of railway subject to the jurisdiction Vegetables (Farmers Bulletin 853)holding provincial charters. This outside inspection has been found by experience in Quebec and elsewhere to ional be of very great value in preventing Washington, D.C. (Enclose 2c. [or the occurrence of fires due to railways.

The Government Railways management is also co-operating with the St. Maurice and Southern St. Lawrence following booklets which are carefully Forest Protective Associations in compiled and attractively gotten up: maintaining a special fire patrol through forest sections between Parent and Quebec, and between Quebec and the New Brunswick boundary, respectively.

For right-of-way clearing to reduce the fire hazard, the Government railways have employed an extra gang of by daylight saving. The city light 22 Indians to cut brush and dispose of inflammable debris between Parent less for May this year than last. and La Tuque. Labour is so scarce in that district that the hiring of the Indians was the only way to get the work done.

nection with those of a similar char- neglect or carelessness.

acter in New Brunswick and Ontario, show conclusively that the Government Railways management is taking a much more active interest in forest fire protection than was ever the case in previous years .- C. L.

# SAVING MILLIONS BY SPENDING THOUSANDS

As a result of thorough drilling and instruction in fire fighting methods, The Canadian farm is the focal point together with the use of modern extinguishing apparatus, employees of the Pennsylvania railway system in 1916 were enabled, by prompt action, to save more then \$14,000,000 worth of the company's property from destruction by the flames. Altogether, the employees extinguished 385 fires during the year before the arrival of the public fire companies. The total loss sustained in these fires was only \$16,437.42, while the value of property in danger was \$14,526,481.00. The average loss sustained was a little more than one-tenth of one per cent.

This illustrates what can be accomplished by proper organization in the prevention of fires. The expense of extinguishment was very small in proportion to the loss which was averted. It suggests furthermore that one of the most urgent needs on this continent is better organization for both private and public business as a departments in time to extinguish them means of lessening waste.

There is an abundance of literature even the most experienced housewives prove unavailing and the fruits of incan get some pointers from it. Here are some useful bulletins which can be flames. had for the asking:

Can, Dry and Store for Victory Canada Food Board, Ottawa. Home Canning (Bulletin 252)-

Home Canning of Fruits and Vegetables—Macdonald College, Que. Canning by the Cold Pack Method Manitoba Agricultural College, Winnipeg.

Canning of Fruits and of the Railway Commission, and lines Div. of Publications, U.S. Department of Agriculture, Washington

Canning and Drying Book-Nat-War Gardens Commission. American stamp] for postage.)

The Canada Food Board, Ottawa, will also supply, for 5 cents each, the Fruits and Vegetables-Canning,

Drying and Storing. Vegetable Recipes. Bread Recipes. Fish Recipes.

Winnipeg citizens are saving money department's receipts were \$12,484

The city of Cincinnati has passed an ordinance making citizens person-

# PROTECTION AGAINST FIRE ON THE FARM

In the past, fire-prevention work has been almost entirely confined to cities and the larger towns. The time has come when the campaign must be carried to rural communities and the farms. The demands of war have made the protection of food products from fire an essential undertaking. upon which the future of civilization largely depends.

Special fire protection for elevators, flour mills, packing houses and stock yards, desirable as it may be, cannot save the \$4,000,000 worth of grain, fruits and live stock which are annually destroyed by fire in rural districts in Canada. Up to the present, little attention has been given to fire protection in the village and practically none to fire protection on the farm. As a result nearly every rural fire is a total loss.

The common causes of fires in country districts are lightning, sponta leous combustion in barns, accumulations of rubbish, carelessness with matches, lanterns, kerosene and gasolene, sparks on shingle roofs and prairie and bush fires. In the cities, 95 per cent of fires is reached by fire while incipient and thus serious damage is averted. When the farmer discovers fire, all he can do is to carry BOOKLETS ON CANNING a few pails of water from a well or cistern and throw it on the flames. In on canning for free distribution and the majority of instances, such efforts dustry are carried away in smoke and Every farmer in Canada owes it both to his country and to himself to preserve his food products by preventing fire .- J. G. S.

## SLASH DISPOSAL LIKELY TO BE MADE COMPULSORY

"One state in the Union now requires slash disposal," says the Ken nebec Valley Forest Protective Association in its Sixth Annual Report, "it is practised in all the Federal reserves and in most state reserves, and will probably be required of all lumbermen in a few years. Private protective associations everywhere are discussing complete slash disposal and endeavouring to interest their members in this greatest of all protective measures. It has been shown that the great heaps and windrows of slash left after the close cutting of the present day methods tends to prevent reproduction of the more valuable species of softwoods on a great part of the area it covers. Also, such great quantities of decaying matter has a marked tendency to breed tree diseases and helps produce abnormal quantities of insect pests injurious to tree life. Lastly, if we could eliminate throughout the Kennebec district all the slash left from lumbering during the next ten years, what a an ordinance making citizens person-ally liable for damages done to noted in the fire hazard. More than These developments, taken in con-neighbours by fire caused by their three-fourths of our forest fires start can do much to further this in old cuttings."

# Good Roads Increase Value of Property

Add From \$5 to \$20 to the Value of Farm Land, as well as Improving Social Conditions

In the state of Indiana, the avera selling price of land has been creased about \$6.48 per acre by i proved roads. The Indiana farm estimate that improvement of roads would increase average le values \$9 per acre. They estimate also, the average annual loss due poor roads at 76 cents per acre, whi capitalized at 6 per cent, represe a depreciation of \$12.67 per a Another enquiry, carried on by t Office of Road Inquiry at Washi ton, shows that the increase in la values due to good roads ranges fi \$5 to \$20 per acre. Nothing show better than these figures ] valuable an asset good roads are.

One of the first things the prosper tive purchaser of a farm wants know about a district is the distar from the railway station and character of the road from the stat to the farm. Some branches of ag culture are much more dependent up good highways than others. The m who is engaged exclusively in raising of cattle which can be drive for long distances to a shipp station, is, in a measure, indepe of the condition of the roads. grower of corn and any other cr which can be stored for a time w out deterioration, can manage to along, even though the road to shipping point be impassable at tin He is greatly hampered, however, the necessity of doing his hauling good weather regardless of man conditions and of whether or not farm operations are seriously tarded by the absence of himself a his team. For the dairy farmer, fruit and vegetable grower, and the producer of perishable comm ities of all kinds, ability to get l products to market at all seasons the year and in all kinds of weat is undoubtedly indispensable to s cess. For all kinds of general fan ing, therefore, a good country highw

is essential to the most profita operation of the farm and to any o siderable development of agricult at a distance from a market town shipping station. Other advantage it conters are better school facili for the children, better rural free livery service, greater attractions pleasure seekers and touring cl better attendance at country church and an improved social life on farm and in the villages.

Primarily, the benefits of country highways go to the farm but less directly they go to the r chants and manufacturers by g them wider markets for their and by decreasing the cost of In road improvement bution. one of the greatest opportunities

general advancement, and Farm Associations, Good Roads Committ Automobile Associations and

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