(onservation

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

OL. VI.

NOVEMBER, 1917

No. 11

ur Airplane Spruce May Win the War

vernment Has Prohibited Further Export Except to Great Britain and Possessions

The survey of the forest resources British Columbia, upon which Commission of Conservation been engaged for the past four rs, has proved of striking immee value in the prosecution of war. The Imperial Munitions rd, which has definitely taken hand the organization of aire manufacture, found itself in adiate need of large quantities irplane spruce, and the Comsion was able, as a result of its rey, to furnish the Board with effic information as to the ation and ownership of all the abodies of spruce in British Should Happen No More Shown There Are Thousands of umbia suitable for that pur-The fact that this informahad previously been collected

bled the Munitions Board to e up without delay the matter this vitally important material. teps are being taken to increase production of airplane spruce and all limits previously

ught possible.

his is but another example of vital importance of Canada's ural resources in winning the prospect for definitely and emacy of the allies is in con-ing on land unsuitable for farming. investigation by the industrial ion with the war in the air. In travelling over Canada, one department of the Federated The company which h s involves the manufacture of thousands of airplanes, which the most intense rts of the allies are being direct-The most suitable species of od for this purpose is Sitka or er spruce, of which great quans are to be found on the Pacific

st of North America. Canada's re of this timber is very large is considered so important in prosecution of the war that its ort, except under license, has vernment to all destinations toad other than the United ngdom, British possessions and tectorates.—C. L.

ETING OF COMMISSION

he Ninth Annual Meeting of Commission of Conservation be held in Ottawa on Novem-27 and 28.

CANADA'S VICTORY LOAN

You will possibly never again have such an investment opportunity as is offered you in the Canadian Victory Loan. The security, interest return and the certainty of appreciation when peace comes, makes it an ideal investment. You owe it to your patriotism and your pocket-book to buy as much as you can, be it a hundred dollar bond or a million. Your bank will gladly supply you with full particulars and a subscription blank. The bonds will be on sale on November 12.

Duty of Government | Wealth Hidden in

The Ontario Department of Agriculture is making a survey of the waste lands of old and new by waste. Democracy must fight Ontario for the purpose of obtainbe the means of obtaining valuable

ceding settlement, to prevent set- amount of waste in any given com-

(Concluded on page 42.)

is to Classify Land Canada's City Dumps

Dollars in Municipal Waste

This survey should both directions. There have been interesting facts and isolated projects for waste con-United States; the task of as-

whelmingly maintaining the tlers making the mistake of locat-munity, but it was found upon remacy of the allies is in con- ing on land unsuitable for farming investigation by the industrial

(Concluded on page 43.)



A TRAGEDY OF UNDIRECTED SETTLEMENT An abandoned town in 'The Burnouts.' Only the station agent remains. The surrounding land proved unfit for farming and settlers and townsmen alike moved elsewhere, losing the fruit of years of toil.

Cut 163

Keep St. Lawrence Power for People

Minister of Public Works Assures Commission of Conservation Everyone will be Given Hearing

The Commission of Conservation has made representations to the Minister of Public Works pointing out the inadvisability of granting to the Power Development Company, Limited, the right to develop power from the St. Lawrence river at the Coteau rapids, and the Hon. F. B. Carvell has assured the Commission that has assured the Commission that this matter is of such public importance that nothing will be done by his Department till every person in Canada has had an opportunity of being heard and pressing their views.

The water-power situation in Quebec and Ontario should be fully considered before any action led the Munitions Board to the purpose of obtain- waste to make war. Waste as were much up without delay the matter of or the purpose of obtain- waste to make war. Waste as were much up without delay the mecessary supplies ing information regarding their as war will bleed a nation, but Amecharacter to those being sought by this company. Such consideration with the power situation is a supply should both directions. There have been would show that the power situations will be the matter of the purpose of obtain- waste to make war. Waste as were much to the purpose of obtain- waste to make war. Waste as were much to the purpose of obtain- waste to make war. Waste as were much to the purpose of obtain- waste to make war. Waste as were much to the purpose of obtain- waste to make war. Waste as were much to the purpose of obtain- waste to make war. Waste as were much to the purpose of obtain- waste to make war. Waste as were much to the purpose of obtain- waste to make war. Waste as were much to the purpose of obtain- waste to make war. Waste as were much to the purpose of obtain- waste to make war. Waste as were much to the purpose of obtain- waste to make war. Waste as were much to the purpose of obtain- waste to make war. Waste as were much to the purpose of obtain- waste to make war. Waste as were much to the purpose of obtain- waste to make war. Waste as were much to the purpose of obtain- waste to make war. Waste as were much to the purpose of obtain- waste to make war. Waste as were much to the purpose of obtain- waste to make war. Waste as were much to the purpose of obtain- waste to make war. Waste as were much to the purpose of obtain- waste to make war. Waste to make wa tion has developed very rapidly servation both in Canada and the within the last few years, and so th possible.

A survey of this nature should be rital importance of Canada's conducted in every province in all resources in winning the Canada. In fact, all of our land Many experts hold that the should be carefully classified provinces of the states of the conducted in every province in all resources in winning the Canada. In fact, all of our land Many experts hold that the should be carefully classified provinces of the states of these and developing a power capable of being developed except when the states of these and developing a power capable of being developed western world. It is difficult to estimate the certain that within the next twenty, years, all the power that can be also should be carefully classified provinces of the states of these and developing a power capable of being developed western world. It is difficult to estimate the certain that within the next twenty, years, all the power that can be developed at points where it can be conveniently used will be re-

> The company which has heretofore been granted the right to (Concluded on page 42.)

LOSS OF LIFE BY FIRE

In the four years, 1912-15, seven hundred and eighty-nine people were burned to death in Canada, and 78 per cent of those were women and children. Over 350 lives were lost in burning buildings, and it is significant that most of these deaths occurred in dwellings. As might be expected, the majority of the fires was caused by criminal carelessness. This is especially carciessness. This is especially true in regard to the kindling of fires with kerosene and gasolene, and permitting children to play with matches. Such disregard of the safety of human life constitutes a forcible indictment of the entire Canadian attitude towards the

Fisheries Protection

Important Points in Evidence of J. P. Babcock Before Royal Commission

Mr. J. P. Babcock, Assistant Commissioner of Fisheries for British Columbia, and a member of the Commission of Conservation, gave the principal evidence before the commission appointed to investigate the fisheries problems of British Columbia. Of special importance was his reference to the need of protection for the fish on the spawning grounds. Mr. Babcock said:

"When, as in 1916, it is demonstrated that the beds of the Skeena, Rivers and Smith Inlet or other watersheds were inadequately seeded, the Department should take steps to afford the fish hatched in those years a greater measure of protection upon their return four or five years hence than was afforded their parents, because the Skeena and Rivers Inlet fish mature in the fourth and some in the fifth year. A greater measure of protection therefore should be given to the runs of 1920 and 1921, than was afforded the run of 1916.

"This should be done for every year's run when the spawning beds are shown not to have been abundantly seeded. Regulations to be effective must be made to fit the known requirements of each particular year's run. Blanket regulations for a series of years, that treat all years alike, are no longer tection. adequate for waters that show evidence of depletion.

"The need and efficiency of just such measures as are here suggested are made manifest from the facts in the life history of the sockeye, which the Province has scientifically ascertained. It is a forcible illustration of the necessity for knowledge as to the life history of the species which it is desirable to conserve.

With this object in view the British Columbia Fisheries Department retained the services of Dr. C. H. Gilbert, of Stanford University, for a study of the salmon, and William F. Thompson, of and William F. Thompson, of Stanford University, for a study of the halibut. Without the work of Dr. Gilbert and Mr. Thompson we could not intelligently legislate to conserve the supply of either sal-mon or halibut. We can now act on known, scientifically ascertained facts, and with some promise of accomplishing results.

Mr. Thompson contributed a very able paper to the annual report of the Commission of Conservation for 1916, on "The Problem of the

Halibut.

The use of motor boats for fishing purposes has been an exceedingly live topic on the Pacific there is reasonable assurance that a coast. Mr. Babcock gives it as his decent living can be made.—F.C.N. opinion that:

"If it be provided that canners or fishing concerns engaged in and for the Allies by buying a canning or freezing salmon shall Victory War Bond.

not furnish motor boats to fisher- DANGER OF GASOLENE Part the Church Can men engaged in fishing for salmon. in British Columbia I personally can see no objection to their use by independent white fishermen.

"Motor boats used by Japanese would, I am convinced, have a catching capacity in excess of the boats now used. The Japanese are persistent fishermen. If they had motor boats they would keep their nets in the water longer than at present is possible.

"A Japanese using a motor boat and having his net in the water would hesitate to take it up and replace it in other nearby waters where he saw evidence of moving fish. This is frequently done by

Japanese on the Fraser.

"In considering the motor boat question, I submit that consideration should be given to the use that Japanese would make of them. The Japanese fishermen of the Fraser own their own boats and many own their own nets. The 'off' years on the Fraser are no longer profitable. In con-sequence, if they were permitted to use motor boats in District No. 2. canners who desired to use them, in connection with their plants, would have no difficulty in getting them to take them into District No. 2. Once this is done other canners must follow.

View this question as one may it must, I think, be conceded that motor boat will enable the energetic fishermen to catch more fish. If, therefore, their use is to be permitted, the fish must be given a compensating measure of pro-

To Classify Land (Concluded from page 41.)

cannot but be impressed by the need of this. In Ontario, in the Trent watershed, there are to be found to-day pitiful cases of dis-appointment, the settlers having expended their energy for years on land that will never be anything more than patches of gravel and sand. In places in New Brunswick. settlers are merely existing on land which is not suitable for agriculture and should have been kept in forest. In one part of southern Saskatchewan, there is an area known locally as 'the burnouts' where settlers have been forced out because they could not make a living. Other have similar difficulties. Other provinces

Various excuses may be made as to why these errors have happened in the past, but none can be offered Whether for their continuance. the Crown land in a province be under provincial or Dominion control, it is the duty of the government having jurisdiction to see that it is properly classified, and, that settlers are allowed only on land suitable for agriculture and where

Make your money work for you

IN PRIVATE GARAGES

The increasing use of the automobile has caused many out-buildings to be converted into private garages. This conversion, in many cases, carries with it the storage of more or less gasolene. In almost all municipal regulations this storage is held to be objectionable. It is highly dangerous, and constitutes a risk, not only to the garage itself, but to adjoining property

Gasolene will give off 130 times its bulk in vapour, and, when vaporized, will convert 1,560 times its volume of air into an explosive mixture, which will ingite from a blaze or spark. Five gallons of gasolene will generate 8,000 cubic feet of gas, or enough to fill a room 20 by 40 feet and 10 feet high. When ignited, it immediately expands to 4,000 times that space. In a built-up area, this would cause a most destructive explosion. with probable loss of life. temptation to keep a rather large supply of gasolene on hand is great, and garages should, therefore, be inspected by local fire departments for dangerous conditions.

St. Lawrence Power

(Concluded from page 41.)

make use of the Cedar rapids has developed a very large amount of power estimated to be about 100 .-000 h.p. Of this amount so developed purely from Canadian waters the company has sold and delivered to the Aluminum Company of America an amount varying from 50,000 to 74,000 h.p. Indeed, it has been authorized by a permit issued on April 1, 1916, to export up to 100,000 h.p. This enormous quantity of energy is being sent out of Canada and is of no benefit whatever to Canada except in so far as the profits thereon represent dividends to a few shareholders. Whatever the power situation is in Montreal, there can be no shortage which is legitimately due to lack of power development.

In Ontario, the question of fuel has become an increasingly serious one, and the time will come very soon when electric power will be largely used for the purpose of operating the railways in that province and for other purposes for which coal is at present employed.

It is, therefore, unwise and improvident to allow large Canadian water-powers to be developed with the object of exporting the power to the United States. The time will undoubtedly come when the power will be required upon the Canadian side of the line and the creation of vested interests in the United States will give rise to serious embarrassment and international complications when it is withdrawn for use here. A situation similar to this has already arisen at Niagara Falls.

Play in Country Life

Massachussets Man Thinks It Sho Lead in Social Welfare Work

What a wonderful opportuni organized agriculture presents train and direct the push as energy of youth! If agriculta will keep at home some of the jo which can be done in the coubut which as now organized located in the city, these back the-farm, rural-life, crowdedand depleted-race questions will solved. In accomplishing this not forget that a social departme is a vital thing to a country busine Man is a so organization. being craving the society of m and he prefers those of his on experience and ideals; he was entertainment, but unknowing will chose that best fitting into life, and his amusement will turally be from topics which h training and experience enable h the most easily to comprehend.

This branch of the organization should include schools, both trs and business, preparing him for h work instead of the university This is the proper department sanitation, nursing and clinics deal ing especially with children's deases. There should be physically training with gymnasiums, show baths, bowling and other game as well as military drill.

The proper agency to succe fully undertake this part of t organization is the church, we now because its time is spent prayer and praise, without critic ing which it may be suggested the faith without works is void, a the demand now is for communi service and public welfare. Yo should every one support th church, preferably from the higher religious motives, but, if necessar because of business necessity. history, standing, motives an foundation principles, universal acknowledged, make it the or agency to successfully accomplisthese social benefits.—M. L. Uras in Report of Mass. Board of Agre culture.

SCHOOL BOYS AND BIRDS

The little .22 rifle in the hands the boy is a serious menace to bir life. Give a young lad one of the miniature rifles, and he is at one ambitious to test it out on killing something. If school boys we taught their dependence upon th work the birds do to protect man food supply from destructive it sects, they would place a mue greater value upon their feathers friends.

IS THIS THE CAUSE?

The United States military dra shows that the number of the physically defective is from 7 to 20 per cent higher in rural district than in cities. The officials blam princip Buy your Victory War Bond early. spection in country schools.

tion and and Ti OT

mitt Lab the which C shou meth been savir Thos obta the

mitte

Labo

mon

of th

in th is a h inclu prese this r dump ment. plant the w the o On adopt

has 1 abou mater by h avera mater The b ern w by sc have l demar furthe and le

tilize the sc citateo makes and s tution

proble

mour

Commission of Conservation CANADA

Can

ry Life

s It Sho

portun

resents

push a

gricultu

e countr

nized a

e back-t

wded-ci

ons will l

ng this

epartme

y busine

a soci

y of mer

he want

knowingh

g into

t will n

which h

nable his

rehend.

ganizatio

ooth trad

im for h

iniversit

tment f

inics deal

ren's di

physical s, show

er game

rt of t

rch, we

spent

it critici

ested th

void, a

mmun

re. Yo

port the

necessar

ssity. I

ives an

niversall

the or

BIRDS

ce to bit

oys we

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 dissemination of information relative to the natural tion of information relative to the natural resources of Canada, their development and proper conservation, and the publica-tion 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, NOVEMBER, 1917

AN IMPORTANT CONTRIBUTION

Conservation is indebted this month to Mr. H. L. Baldensperger of the United States National Committee on Prisons and Prison Labour for the valuable article on the utilization of municipal waste, which appears on the first page.

Canadian municipal authorities should investigate more fully the methods by which Chicago has been able to make such great savings from its garbage dumps. Those who wish to do so, can obtain detailed information from the War Bureau, National Committee on Prisons and Prison Labour, Union Trust Building, Washington, D.C. succes

Wealth in City Dumps

(Concluded from page 41.)

is a household waste of \$12.50, not light bulbs are sold by commercial including table waste. Under our present system of handling waste, this material is either carted to the dump by the street-cleaning department or destroyed at the reduction plant. The logical place to retrieve the waste of the community is at the dump.

ceomplis One reason for the failure to L. Uran adopt methods of conservation has been the increasing cost of average industry to buy new material than to resort the old. hands e of the The business methods of the wests at one ern world of cutting labour costs on killing by scrapping waste commodities have been a persistent drain on the resources of the country. The upon th ect man further increase the cost of labour etive is and lead to a greater increase in the a mud a mud amount of material scrapped. Some

Our correctional institutions are VEGETABLES SHOULD the product of a society that maintains city dumps. We dump our waste man into the institution where he lies undeveloped. Most of our municipal and county work-houses are such in name only. Idleness reigns supreme or, if the inmate is employed, he is usually exploited for the benefit of the few.

The Chicago House of Correction is an exception to this rule. This institution has found the value of the waste man and the waste The superintendent Mr. John L. Whitman, by employ ing the outcasts of society on the conservation of the city waste, has revealed new sources of revenue. In one year's operation he made a return equal to 50 per cent of the maintenance cost of the institution. The amount received by the city was 900 per cent more than what it derived from the sale of the city waste under the old system.

The year before the establishment of the salvage work at the House of Correction the city received \$13,000 from the sale of unclassified waste. The following year the amount received amounted to \$136,000, which was utilized as follows: \$86,000 was credited to the city departments, \$10,000 was turned into the city treasury and over \$40,000 was set aside for the relief of the prisoner's families.

Reduction methods employed by commercial dealers destroy many valuable by-products. These materials are conserved at the institution by hand labour. The inmates cut the lead and rubber covering from pieces of conduit wire and, in a year's time, added \$11,000 worth Jewish Charities of New York that of this material to the national

dealers for the brass socket and the flint glass. One inmate of the Chicago House of Correction cut out the platinum used in the lamps, and conserved over \$9,000 worth ation. of this material in one year. Over \$5,000 worth of waste paper was sorted out and sold in one year.

The Canadian campaign for conservation of such wastes has been limited largely to paper-stock. labour. Sorting and preparing of Canada destroys approximately 250 material are practically all done tons of paper weekly. In order to re-by hand. It is cheaper for the place this paper, at least 2,000 trees ments can be used more effectively must be cut. Every ton of paper and economically. A logical syswasted means that eight trees of tem which will prove successful mature growth must be cut. By both in times of peace as well as inaugurating a system similar to war would avoid these weaknesses the Chicago salvage system, the Canadian municipalities should integral part of government. This conserve sufficient paper to offset would solve the problem of storage

conservation. The waste came the public institutions, this here-paign which has been carried on tofore unemployable element of new method of decreasing labour during the last year has rendered a society can be afforded an oppornew method of decreasing labour of six must be found in order to utilize the ever-increasing waste of the costs must be found in order to utilize the ever-increasing waste of the graph of the graph pile. It is the incapation of the graph in the scrap pile. It is the incapation of the graph in the scrap pile. It is the incapation of the graph in the scrap pile. It is the incapation of the graph in the scrap pile. It is the incapation of the graph in the scrap pile. It is the incapation of the graph in the scrap pile. It is the incapation of the graph in the scrap pile. It is the incapation of the graph in the scrap pile. It is the incapation of the graph in the scrap pile. It is the incapation of the graph in the scrap pile. It is the incapation of the graph in t

BE PROPERLY STORED

This year, in response to appeals Commission of Conservation's Survey for increased food supplies, Canadians have produced a record crop of vegetables.

That the greatest use may be made of these products it is essential that care be exercised in their storage and preservation. A cool, dry cellar is the best place to individually in paper and kept in a dark place to ripen, and, while not taking on altogether the colour of those exposed to the sun, they are otherwise as satisfactory. matoes thus ripened may be used till Christmas.

be secured this autumn. The farmers have grown large quantities, and in many cases losses will be heavy if they find it necessary to store them. In addition, during several of our winter months, it is not safe to market potatoes, which leaves the consumer dependent upon the middleman for supplies, usually at an enhanced price. By early distribution, the storage problem can be largely solved and much of the waste due to freezing avoided.

If the same patriotic effort is given to the preservation of the 1917 crop as was exhibited in its production, very little waste will oceur.

present movement proves that waste conservation must be continued after the war, but its faults ought not to be incorporated in a well-rounded system of conserv-

It is unwise to permit the women of a country to take work which, thereby, diverts skilled workers to a line of work that is purely mechanical and requires little skill. It is unwise to use the trucks of commercial houses when demand for men in the army will this drain on the national resources. and collection. By employing the Canada has dabbled in waste mentally and physically unfit in

British Columbia Fire Losses Heavy

Shows Need for Looking After Burnt-Over Areas

Few people realize the enormous damage which has been caused by forest fires in years past. This damage has taken place in every province of the Dominion. An store vegetables. Carrots, pars-illuminating example is afforded by nips, beets, etc., if covered with sand, will not dry and shrivel up. of British Columbia, upon which Cabbage are best taken up and the Commission of Conservation hung by the roots individually. has been engaged during the past Green tomatoes, when too late to four years. This investigation ripen outside, should be wrapped shows that on 95,000 square miles the timber has been useless ly destroyed by fire, mostly many years ago. The amount of timber so destroyed is estimated to be not less than 650,000 million feet, or about twenty-two times as much as Potato supplies, for those who have not grown their own, should Putting the loss in another way, the total that has ever been cut by this timber is equivalent to almost twice the amount of saw timber now standing in the province, and to nearly as much saw timber as is now standing in the forests of all

Much of the area burned over contains young forest growth which, if protected from further destruction, will, in time, furnish the basis for enormous industrial development on our Pacific coast. If we assume that the 97,000 square miles of cut-over and burned-over lands should be made to produce an average of only 100 board feet per acre per annum, the total increment would amount to 6,200 million feet per year, or about 5 times the present annual cut. That this estimate is by no means beyond the bounds of reason is shown by measurements of growth which have actually been made.—C.L.

HOME FROM OVERSEAS

Bombardier Allan Donnell, of the staff of the Commission of Conservation, who has been invalided home, was given a welcome back in the form of a reception on October 17 by his fellow employees. Bombardier Donnell was wounded in the foot by a gas shell last

FIGHTING FORESTERS

Sixty-five men from the Faculty of Forestry of the University of Toronto are fighting overseas. Every graduate of the past three years who is physically fit is serving the Empire in some capacity.

100,000 tons is expected this year.

One Cause of Power Shortage in Ontario

Chicago Diverting Nearly Twice Authorized Amount of Water from the St. Lawrence System

Closely allied with the power shortage at Niagara, as well as at all water-powers of the St. Lawrence, is the question of water diversion through the Chicago Sanitary canal. One feature, which has perhaps not been sufficiently emphasized in connection with this scheme, has been forcibly brought out in recently published figures respecting the power plant, which evidently is a very important feature of the project. The figures show that the disposal of sewage is only a secondary consideration when compared with the financial aspect of the hydro-electric power development. This is further accentuated by the fact that the estimated profits from the extensions now under construction would be about 100 per cent. Figures showing the growth of the power plant give the development as 15,278 h.p., with earnings of h.p., with earnings \$130,936 for the year 1908, while, in 1915, these figures had reached 55,640 h.p. and \$932,566, respectively. Although the authorized diversion is but 4,167 cubic feet per second, it is notorious that about 8,000 cubic feet per second is actually flowing through the Chicago river .- Eighth Annual Report, Commission of Conservation.

Rural School Fairs in Dundas County

Boys and Girls Strongly Influence the Older Folks to Farm Better

The school fairs held this year in Dundas county, Ont., where the Commission of Conservation is conducting an agricultural survey, were a decided success. The whole county is now organized for this work and a fair was held in each of the four townships. Splendid weather prevailed and large crowds were in attendance. The exhibits in pleasure and profit of vegetables, grains and fruits were, in each case, far ahead of that seen at many regular township fairs. It is a noticeable feature that the exhibits are improving from year to year in quality and in the manner in which they are displayed, which demonstrates that the children are profiting by their experience in past fairs. Selected seed of standard varieties is supplied to the pupils to awaken an interest on the home farm in seed selection, and, as this seed multiplies, the whole farm is sown with the improved varieties.

The fair affords a pleasant out- placards. ing for parents as well as for the children, and many old acquaint-ances are renewed. The children Conservation have formed a coare benefited in many ways. They operative society through which learn to give and take among their they will purchase household supfellows. A spirit of loyalty to their plies and foodstuffs.

school is aroused. They taste the Potash Now Being joy of success and learn to accept defeat gracefully. The mere winning of a prize is only an incident the fact that the child has tried hard to win is well worth the effort. It means better work has been done and the child's capabilities have been increased thereby.

How One Farmer Kept His Boy On The Farm

A drainage inspector in a Canain possession of a good house, with modern sanitary equipment, but he and his family were enjoying many indentations, the kelp beds the occupation of the best rooms are of large area. in the house. On being asked why he did not live in the kitchen like his neighbours, and why he looked so much after the comforts of his Moresby island, one of the Queen home, he replied that he wanted to charlotte group. It will have a keep his boy on the farm, and that capacity of 1,000 tons of wet kelp he could not expect to do so if he did not provide him with home comforts equal to those enjoyed reaped by knives suspended below by people of equal means and scows, which cut the standing rank of life in the city. There is growth as they pass over the beds. more sound philosophy in the The kelp then rises to the surface, method of that farmer than is where it is gathered up. found between the covers of many text books on rural depopulation. poses to extract oils from non--From Rural Planning and De- edible fish and to make fertilizer relopment.

Made from Sea-weed

Plant for This Purpose Has Been Erected in British Columbia

When the war broke out, the fertilizer supply, especially that of potash, was badly disrupted. Until then, Germany had been the principal source of supply. Attention was immediately directed to several possible materials from which potash might be obtained. Among these was kelp, a waterdian province once visited a certain plant growing in great profusion farmer and found him not only along the sea-coast. Especially is this the case on the British Columbia coast, where, owing to the

After careful investigation plant for making potash from kelp has been installed at Pacific, on daily, and will get its supply from Cumshewa inlet. The

The company, in addition, profrom the fish refuse.-W.J.D.



SCHOOL FAIR AT SOUTH MOUNTAIN Happy faces of children who are being trained to get the most out of rural life

FIGHTING VENERAL DISEASES

The Health Department of Baltimore, Md., is posting placards in hotels, bath houses, railway stations and other public places warning the public against quacks, advertising doctors and patent medicines in the treatment of medicines in the treatment of P.Q. The provincial forester, veneral diseases, and pointing out that expert medical advice can be nearly 200,000 were white pine, that expert medical advice can be liearly 200,000 were wine pine, had free at several dispensaries 180,000 Norway spruce, 82,000 throughout the city. Many facto- Scotch pine, 20,000 Douglas fir, ries, stores, barber shops and 8,000 red pine, 7,000 white spruce, theatres are also displaying these

The staff of the Commission of

OUEBEC WILL EXTEND ITS FOREST NURSERY

During the past year, more than 500,000 forest tree seedlings have been shipped from the Quebec forest nursery at Berthierville, and 6,000 tamarack, the balance being made up of relatively small numbers of other species, mostly hardwoods, to supply the demands of farmers. The great bulk of the demand was, however, for the reforestation of burned-over nonagricultural lands. The Laurentide Buy your Victory War Bond early

BUY WAR SAVINGS CERTIFI-CATES

¶ For every \$21.50 you lend to the Government now, you will get a certificate entitling you to \$25.00 at the end of three years.

This certificate will be registered at Ottawa. in your own name, and, if lost or stolen, is valueless to anyone else. Further, if you should need your money, you may get it back at any time.

¶ Certificates are issued in denominations of \$10, \$25, \$50, and \$100, selling at \$8.60, \$21.50, \$43 and \$86. respectively. Individual purchases limited to \$1,500.

Absolute security Excellent interest return

ON SALE AT ANY BANK OR MONEY-ORDER POST OFFICE

Company, and the Riordan Pult and Paper Company were heavy purchasers of plant material from the provincial nursery, in addition to supplies secured from the own nurseries. The Perthui seigniory also has purchased large number of small trees from Berthierville annually during th past seven years.

To date, the provincial nurser has shipped a total of more tha 1,500,000 trees since its inception of these, more than half have bee supplied during the past two year The demand for planting stock ha become so insistent that the provincial forester announces proposed extension of the capacit the Berthierville nursery 3,000,000 seedlings annually. these, the majority will be Norv spruce, which is believed to be the most suitable species for pulpwoo production.-C.L.

RURAL DEVELOPMENT

The report on Rural Plannie and Development just published bethe Commission of Conservation an epoch-marking work and shoul be in the hands of all public spirited citizens interested in th important problem of nation policy.