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JULY
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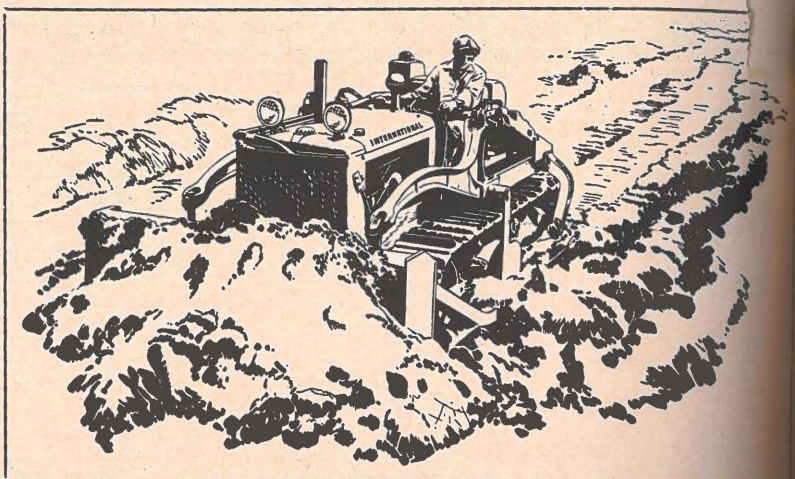
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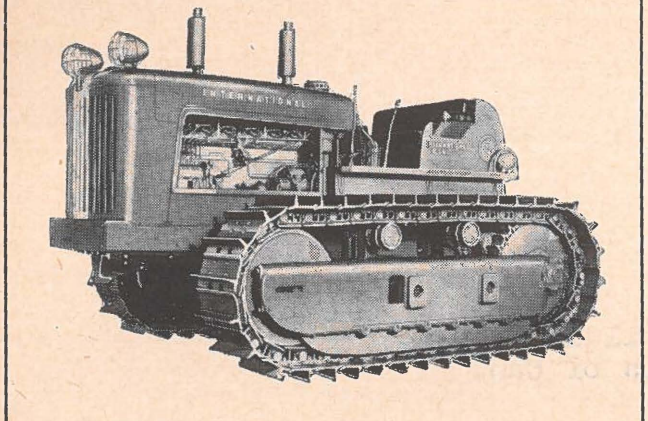


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President's Message

THE DEAN

Recently it has been announced that Mr. Malcolm Cochran, manager of Hammermill Paper Company for many years, has retired from that position. We hasten to add, however, that Mr. Cochran is by no means retiring from an active life. He will still be carrying on as an officer and manager of the Thunder Bay Forest Products Company Limited and as president of the Ontario Forest Industries Association. In addition to that, Mr. Cochran carries many other offices connected directly and indirectly with business and civic life., and all of these jobs he will be carrying on for some time to come.

It is felt that it should be fitting that some comment should be made in this corner in connection with Mr. Cochran's retirement from Hammermill.

One of the original architects of the Thunder Bay Timber Operators' Association was the same Mr. Malcolm Cochran. He had long felt the necessity of an association of the operators in this district to combine their problems and to co-operate in their every-day work in such a fashion that a minimum of friction and misunderstanding would occur. In addition to that he has also for many years been president of the Pulpwood Salvage Association. This Association has to do with the recovery of lost wood along the shores of Lake Superior and the ultimate return of such wood to the rightful owners.

This industry has seen many bright and also many difficult days. Through all of the different types of problems we had, in the back-ground was the steadying hand of Mr. Cochran. During the depression times were truly grim in this area insofar as woods' operations were concerned.

As the head of the Hammermill Paper Company, he was instrumental in bringing a great deal of work to this territory which helped in a very large measure in bringing back this part of the country to financial stability.

No company could have had as an asset a finer manager than the man of whom we write. The Hammermill Paper Company has built up a reputation second to none for leadership and stability and while the Hammermill Paper Company at Erie has benefited a great deal from the wood products they have procured in Northern Ontario, similarly this district is the gainer for the great amount of business which has been done locally by this same company.

In the field of civic affairs Mr. Cochran again has played a leading part. He has long been one of the governors of the Port Arthur General Hospital and at present is President and Chairman of the General Hospital Board.

(Continued on Page 8)

MASS CHEST X-RAY SURVE Y CARRIED OUT THIS SUMMER

Under the direction of the Division of Tuberculosis Prevention Department of Health, an extensive tour of Northwestern Ontario communities, including some depot woods camps has been carried out by mobile bus unit and by rail car.

This summer survey is supplemented in the Fall & Winter by the mobile T.B. X-Ray machine from the Fort William Sanatorium conducting surveys in the woods camps.

STRONG WINDS AND HIGH WATER MAKE RAFTING DIFFICULT CHORE

Battling the elements is a continual task in the production of forest products especially when there is a drive and a rafting operation to be carried out to get the wood safely to the mill.

This year has seen extraordinary conditions prevail with very low water at the beginning of the Spring drive to be followed by heavy rainfalls which caused rivers to rise rapidly along with high strong winds.

Several storage breaks were reported. The Ontario Paper Company Limited at Heron Bay had a storage at the mouth of the Little Pic River break and approximately 4,000 cords of pulpwood were swept into Lake Superior. The majority of this was expertly rounded up in an operation directed by Mr. H. H. Styffe.

The Abitibi Power & Paper Company Limited had a storage break at the mouth of the Wolf River and the Great Lakes Paper Company Limited had a break at the mouth of the Black Sturgeon River.

At Tee Harbour, near Silver Islet on Thunder Cape, the Newaygo Timber Company had a storage break and at the Fort William Mill of the Great Lakes Paper Company high water damaged their jackladder and caused some wood to get away from their storage pond.

FOREST FIRE FILM "FIGHTING FOREST FIRES IN NORTHWESTERN ONTARIO" SHOWN TO LAKEHEAD EXECUTIVE CLUB

At a meeting of the Lakehead Executive Association the film "Fighting Forest Fires in Northwestern Ontario" was shown to members and the film thoroughly enjoyed.

During the meeting, each person present was presented with cigarette paper and the "makings" and a contest conducted as to who could make the best hand rolled cigarette. This contest was won by Mr. T. C. Sills of the Manufacturers Life. This contest went over very well and stressed the importance of "rolling your own" while in the woods.

COVER PICTURE

The "Heron Bay" being loaded by Oscar Styffe Limited loader at Port Arthur.

QUICK CANADIAN QUIZ

1. Which province has the greatest density of population? Which has the least?
2. Which province has the greatest area suitable for farming?
3. The value of one hour's production of the pulp and paper industry is $47,000, $91,000, or $143,000?
4. Which is the smallest of the Great Lakes?
5. Alberta's river systems ultimately reach salt water where?
6. Which province has the largest pulp and paper production?
7. Which is the largest all-Canadian lake?

(Answers on Page 22)

DEPARTMENT OF LANDS AND FORESTS ISSUES FOREST RESOURCES INVENTORIES

The Division of Timber Management, Ontario Department of Lands and Forests have recently issued reports of some of the Districts made as a result of the forest resources inventory.

Each of these reports is started by "Survey Highlights" and the Survey Highlights of reports issued to date are re-printed below for your information.

The Preface to the reports reads as follows:

"One of the important undertakings of the Ontario Department of Lands and Forests, in recent years is a province-wide survey of forest resources. The survey was authorized and work started by the Division of Timber Management early in 1946. Commencing April 1, 1951, the Federal Department of Resources and Development has reimbursed to Ontario, one-half of the expenditures incurred in forest resources inventory, under the terms of an agreement with the Province pursuant to the provisions of the Canada Forestry Act.

The past half century, little more than one-half a rotation period in forest growth has witnessed the origin and rise of the pulp and paper industry to the position of "Canada's Leading Industry." Advances through research and development in processes of manufacture are going forward at an accelerated rate. The possibilities of manufacturing present wood waste, unused species and qualities economically into marketable products offers a challenge to research; their quantities give it direction. Modern forest inventory has therefore shifted from its former position of concentration on giving presently utilizable volumes, to one of presenting the forest resource picture as a whole. The volume of the primary growing stock in cubic feet gives the total wood resources. From these total figures, not only can the volumes of wood utilizable under present economic and industrial conditions be calculated, but these estimates may be adjusted also, to the progressive change in utilization standards in a rapidly developing economy.

For purposes of administration of the renewable natural resources of the province, the Department of Lands and Forests has set up twenty-two districts, each administered by a District Forester and staff, from an office located centrally in the district. The forest resources inventory covers sixteen complete and parts of two of these administrative districts, totalling 172,000 square miles, and comprising the accessible forest area of Ontario.

While the report deals primarily with the physical resources, the underlying purpose has been to measure the capacity of the forest to contribute to employment and community welfare, and to the industrial and commercial welfare of the province as a whole. This objective may be attained most effectively through the use of inventory data in the planning of sustained yield forest management for the province as a whole and in the preparation of long term management plans for local areas."

Copies of these reports are available and it is suggested that anyone interested write to the
Department of Lands and Forests,
Toronto, Ontario.

FOREST RESOURCES INVENTORY REPORT NO. 1 OF THE NORTH BAY DISTRICT

"Survey Highlights"

1. The total area of the North Bay district is 3,482,164 acres, 5,441 square miles. Productive forest lands occupy 2,740,029 acres, 79 per cent of the area, water covers 11 per cent of the total area and per cent is made up of non-productive forest lands lands withdrawn from forest use.

2. Privately owned lands cover an area of 480 acres, 14 per cent of the total area. Only 11 per of the productive forest is privately owned. Developed agricultural lands occupy 117,580 acres or 24 per of the total area under private ownership.

3. The total timber resources of the North district are just under four billion cubic feet. More than one-half of this volume is made up of hardwoods principally poplar and white birch. White and red pine the most important saw timber species, makes up one-third of the softwood volume. Spruce and balsam the premier pulpwood species, comprise somewhat less than one-third of the softwoods. The balance of softwood is made up of jack pine, hemlock and ce

4. The annual allowable cut, or net depletion lowable under sustained yield management, is 87 m cubic feet. Of this total allowable cut, 90 per cent Crown lands and 10 per cent on patented land.

5. The valuable conifer or softwood species m up only 39 per cent of the allowable cut and the h woods, mainly poplar and white birch, comprise major portion, 61 per cent of the total allowable cu

6. A comparison of annual allowable cut with actual utilization of timber for Crown lands in the N Bay district indicates that the two pines, red and w were cut at a rate more than double that permitted u sustained yield regulations. If red and white pine tinue to be utilized at these rates, the present ma timber stands will be exhausted within the next tw years. At the end of that period white and red would come, for the most part, from presently imma stands, and the allowable cut may then drop from present 31 million feet to about 8 million feet b measure. Only 9 per cent of the allowable cut of h wood species, poplar, white birch and others, is rently utilized in the North Bay district.

FOREST RESOURCES INVENTORY REPORT NO. 2 OF THE TIMISKAMING DISTRICT

"Survey Highlights"

1. The total area of the Timiskaming distric 3,449,202 acres or 5,389 square miles. The cover distribution of the 2,709,903 acres of productive fo land is 51 per cent mixedwoods, 25 per cent conife and 15 per cent hardwood, and by age classes is 32 cent reproducing forest and regeneration areas, 47 cent immature forests and 21 per cent mature areas.

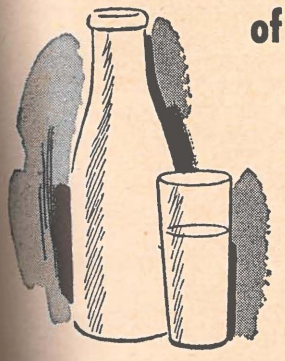
2. Privately owned lands cover an area of 757 acres or 22 per cent of the total district area whi reduced to 17 per cent in relation to the produc forest area. Developed agricultural lands occupy 172 acres or 5 per cent of the total district area.

3. The gross total volume of talliable stand timber in the Timiskaming district is 3,342,852 cubic feet. This is growing on 1,829,827 acres averages 1,827 cubic feet per acre. Of this volume billion cubic feet is growing on Crown lands, about 500 million is on patented land. Poplar and birch are the leading species in the district represe approximately half of the entire growing stock jack pine, black and white spruce coming next species are in relatively minor quantities.

(Continued on Page 6)

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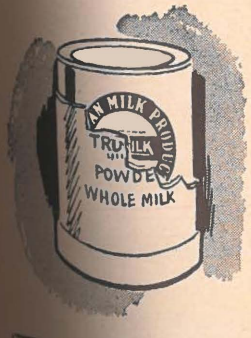
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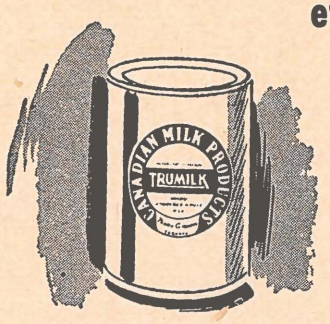
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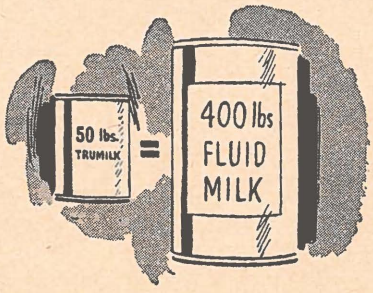
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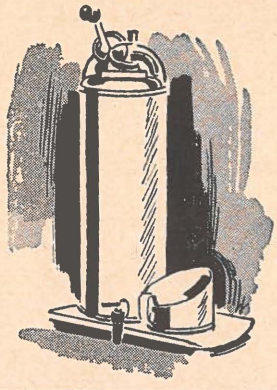
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SURVEY HIGHLIGHTS

(Continued from Page 4)

4. The annual allowable cut, or gross depletion allowable under sustained yield management, is slightly over 95 million cubic feet, with 36 million being coniferous species and 59 million being hardwoods. Of this total figure 73 million cubic feet is on Crown land, while 22 million is on patented land.

5. The coniferous species make up about 38 per cent of the total allowable cut and hardwood species compose the balance or 62 per cent. Poplar and white birch form the bulk of the hardwood allowable cut while jack pine forms about half the allowable cut of conifers.

6. A comparison of the allowable cut with actual utilization indicates that no species is being overcut in the district. However, 67 per cent of the allowable cut for white and red pine is utilized, 84 per cent of the jack pine and 76 per cent of the allowable cut of the white and black spruce is being currently utilized in the district. Since these three species groups contain 88 per cent of the total allowable cut of conifers, a very narrow balance remains to provide for losses from fire, insects and other agencies. Only a very small proportion of the allowable cut of hardwoods is presently being utilized.

FOREST RESOURCES INVENTORY REPORT NO. 3 OF THE COCHRANE DISTRICT

"Survey Highlights"

1. The total area of the Cochrane district is 7,355,150 acres. Classified into broad land classes, 75 per cent is productive forest land, 17 per cent non-productive lands, one per cent is non-forested land and 7 per cent is water.

2. Ninety per cent of the total area is owned by the Crown and 10 per cent is patented land. There are a total of 60,652 acres of developed agricultural land. Only about 7 per cent of the patented land area is in farm crops.

3. The volume of wood in the Cochrane district including all species is 8.25 billion cubic feet. Four-fifths of the total volume is in mature stands which average 2,176 cubic feet per acre.

4. The most important species is black spruce which makes up 45 per cent of the total volume. Among the conifers or softwood species, balsam fir with 13 per cent of the total volume comes second, followed by white spruce with 7 per cent and jack pine with 6 per cent of the total volume. Two hardwood or broadleaved species have important volumes, poplar making up 20 per cent and white birch 7 per cent of the total cubic volume.

5. In the mature age class on Crown lands o 26 cent of the volume of conifers is in the sawlog s class, 10 inches and over in diameter. White spruce a jack pine furnish most of the sawlog size material; o 14 per cent of the volume of black spruce is 10 inc d.b.h. and over. Of the total volume of hardwoods in mature forest on Crown lands, 73 per cent is in the inch d.b.h. and over size class.

6. The annual allowable cut for conifers Crown lands is 96 million cubic feet gross total volu made up of 65 per cent black and white spruce, 21 cent balsam fir, 12 per cent jack pine and 2 per c other conifers. No species is at the present time be cut at a rate over the allowable cut. The utilization coniferous or softwood species is currently 49 per c of the allowable cut. Only about 2 per cent of the all able cut of hardwoods is being utilized at the pres time.

7. The allowable cut of all species on paten lands is 26 million cubic feet, which is equally distr uted between softwood and hardwood species.

FOREST RESOURCES INVENTORY REPORT NO. 4 OF THE KAPUSKASING DISTRICT

1. The Kapuskasing district lies in the Clay B region of Ontario, an area of deep clay, highly produ ive soils on which the finest pulpwood forests in province grow. Industrial development of the distr based almost wholly on the pulpwood resources is o a little over 25 years old. The forests of the district predominantly mature virgin stands of black spru modified locally and to a limited extent by agricultu settlement. White spruce grows to large sizes on well-drained soils along river and stream valleys and the mixed upland forests. From these stands a sm but thriving sawmilling industry derives supplies timber.

2. The total area of the Kapuskasing district 10,394,309 acres or 16,241 square miles. Product forest lands accupy 8,061,696 acres, 77 per cent of t total area. Water covers 4 per cent of the total a and 19 per cent is made up almost wholly of n productive forest lands.

3. Patented lands cover 10 per cent of the t area leaving the major portion in Crown ownership.

4. The total timber resources of the district over 13 billion cubic feet, 67 per cent is of the value coniferous species and 33 per cent hardwoods. Bl spruce is the most important species making up abo two-thirds of the conifer volume on Crown lands.

(Continued on Page 8)

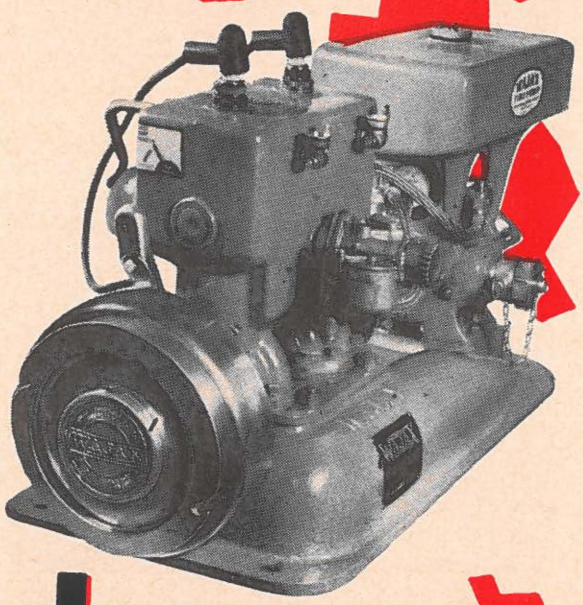
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SURVEY HIGHLIGHTS

(Continued from Page 6)

5. The annual allowable cut on Crown lands is 91 million cubic feet for conifers and 86 million cubic feet for hardwoods before any deductions are made for losses in growing stock from sources other than industrial utilization.

6. Of all wood utilized from Crown lands in the Kapuskasing district, 86 per cent is spruce. Spruce, however, makes up only 37 per cent of the total allowable cut.

7. A comparison of the annual allowable cut with the actual utilization of timber for Crown lands shows that no species is being overcut at the present time. Spruce with an allowable cut of 66 million cubic feet, and an actual cut of 53 million cubic feet has a narrow balance to provide for losses due to fire and other causes. All other species are being utilized well within their allowable cut with a very large surplus of poplar and white birch unused at the present time.

FOREST RESOURCES INVENTORY REPORT NO. 6 OF THE PORT ARTHUR DISTRICT

"Survey Highlights"

1. The total area of the Port Arthur District is 10,811,831 acres or 16,893 square miles. Productive forest lands cover 73 per cent of the total area, non-forested lands occupy 2 per cent, non-productive forest lands 7 per cent and water surface 18 per cent.

2. Of the total area of the Port Arthur district 89 per cent is Crown land, 3 per cent is patented land, comprising Grand Trunk Pacific blocks 1 - 6, and 8 per cent is patented land in small holdings. For the purposes of this report G.T.P. blocks 1 - 6 are treated as Crown lands.

3. The age class distribution for the productive forest lands of the district shows 40 per cent of the area mature, 35 per cent immature, 15 per cent young growth and 10 per cent reproducing forest.

4. The volume of the primary growing stock in the Port Arthur District is just over 12 billion cubic feet. This is an average of 1,557 cubic feet per acre for the productive forest area of the district.

5. Of the total volume, 63 per cent is made up of conifers or softwood species and 37 per cent is hardwood or broadleaved species.

6. In the mature age class on productive forest lands, 62 per cent of volume of conifers is in the pulpwood or cordwood size class and 38 per cent is of sawlog size. For hardwoods, 44 per cent of the volume is of pulpwood and cordwood size and 56 per cent is in the sawlog size class. Jack pine has 54 per cent of its volume in the mature forest in sawlog sizes, white spruce 72 per cent, black spruce 23 per cent, and balsam fir 29 per cent.

7. The annual allowable cut or total depletion allowable under sustained yield management for the Port Arthur District is 233 million cubic feet, 90 per cent of which is on Crown lands and 10 per cent on patented lands.

8. Of the allowable cut on Crown lands of 210 million cubic feet, 53 per cent is conifers and 47 per cent hardwood species. The allowable cut of conifers is made up of 47 per cent spruce, 32 per cent jack pine, 18 per cent balsam and 3 per cent other conifers. The hardwood allowable cut is made up of two species, 71 per cent poplar and 29 per cent white birch.

9. A comparison of the allowable cut on Cr lands with the current actual utilization shows spruce is being utilized at approximately the allow cut under sustained yield management. All other spe have a margin for expansion in utilization. Only 4 cent of the allowable cut for hardwoods is being utili

PRESIDENT'S MESSAGE

(Continued from Page 3)

In his earlier days, before coming to the Lakeh country, he had been an athlete of note and also great football player. Later he became a chamion golfer at the Lakehead and is also reputedly a very shot whether it be at trap shooting or natural hunting.

For many years he was very active in hockey cles and in his spare time did much of the ground necessary to build up Port Arthur's Allan Cup winn teams. During one of the successful years, he wa charge of the Allan Cup team which competed in Olympic competitions in Europe.

Many of his accomplishments will be written papers elsewhere. We simply mention the above give you a small idea of the activities of the gentle whom we now call affectionately "The Dean". He truly the dean of the Operators' Association in nor ern and north-western Ontario and we are happy know that we will for some time to come, have assistance, guidance and advice in the problems wh we are sure to face as time goes along.

On behalf of all the operators we wish Mr. Co ran many happy days in the years to come; that will not be like the man who once said he had beco so busy since he retired that he was sure he wo have to retire from retirement.

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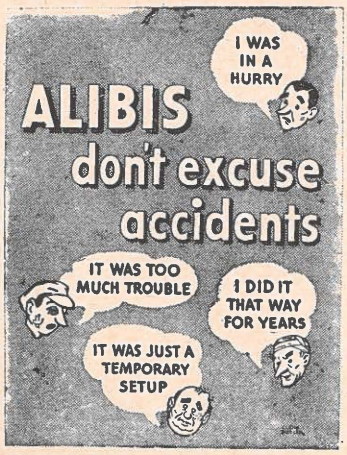
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NORTHWESTERN ONTARIO (WOODS) BRANCH, ONTARIO PULP AND PAPER MAKERS' SAFETY ASSOCIATION HOLD SPRING MEETING

Mr. G. K. Eoll, Chairman, presided at a recent meeting of the Northwestern Ontario Woods Branch, O.P. & P.M.S.A. held in Port Arthur.

The items of interest discussed at the meeting were:

"Dri-Bak" Clothing,
Accident Cost Analysis.
Foot Accident Survey,
New Items of Safe Clothing,
Plans for the use of Safety Equipment this year by member companies,
Lumbermen's Safety Association plans for the coming season.

This talk was given by Mr. G. R. Potts, Northwestern Ontario District Inspector for the Lumbermen's Safety Association.

A very interesting address "A Woods Manager Looks At Safety" was given by Mr. J. H. Godden, Woods Manager of the Great Lakes Paper Company and is reported elsewhere in this booklet.

How a Camp Safety Committee operated in Abitibi Camp 146 last winter was described by Mr. M. Chew, Clerk at that Camp.

Mr. F. B. Denison, Northwestern Ontario representative of the Workmen's Compensation Board of Ontario, outlined changes in the Workmen's Compensation Act which came into effect this year.

A WOODS MANAGER LOOKS AT SAFETY

By J. H. Godden

Rather than speak on safety work in general terms I have decided to discuss in this paper one particular phase of accident prevention and safety work which I consider of prime importance. This phase of the work may be termed "Getting the co-operation of supervisory personnel and workers."

No doubt you all realize that this is a very fundamental and basic approach to any program but I think it is particularly applicable to safety work. Co-operation of all concerned is essential to the success of the undertaking and particularly so in accident prevention where results are not always immediately discernable and some personnel may look on the work as being unproductive and unnecessary. I believe that a great deal of spade work should be done in a company organization, through private discussions with key personnel, through meetings of supervisory staff and wherever the opportu presents itself, **before** a safety man is put in the f If this is done and properly done the work of the sa man should be considerably easier and much m effective.

Now let us get down to some actual suggest as to how the above-mentioned co-operation may achieved —

First of all we should start with the top man in Woods Department generally known as the Wo Manager. I am not going to attempt to tell you how get his interest and co-operation for your methods vary with individual cases and I hope in most cases he will already be sold on it as a responsibility of g management. In any event his interest and active s port either from the human angle or the economic an or better still, both is absolutely essential to succ and co-operation all down the line.

The Woods Manager should make known to supervisory personnel, and to workers also, where p sible, his interest in and support of a safety program as a Company policy. Everyone in the organization s omatically knows of the Woods Manager's interest lower costs, delivery of wood on time, etc., but unl he makes a special effort to show his support of a see ingly unproductive work such as safety, people do the line are apt to show little interest and lack co-op ation. It definitely makes a difference when everyo knows that "the boss" fully supports the endeavo of the safety man.

So much for "the boss" and now that we are sured of his interest and co-operation what comes ne in importance? To my mind the next important step the choice of your field safety man. He, more than a other, probably, is the man who can make or break y safety programme, and as such he warrants very care choosing. This man should first of all be one who co mands the respect of his fellow workers. He should quiet and unassuming but with a postive, likeable pe sonality. He **must be** willing to listen to others a invite suggestions from supervisors and workers as safe practices. He should be familiar with the vario phases of woods operations and should have worked at least a small variety of jobs in the woods. To-d believe he should be a man who is mechanically incli and interested in mechanical operations.

Certainly it is difficult to find a man who has a combination of basic qualifications. However, I b sure that one such safety man on a given area proper basic qualifications as outlined above, may pro of more value than a dozen poorly chosen safety me

In my opinion the choosing of the proper type field safety man on woods operations is of prime impo ance and cannot be stressed too strongly if a safe programme is to be of value to all concerned. T right man, with the full support of his superiors, do much to bring about that very necessary and imp ant factor — co-operation.

Now that we have chosen a first-class field safe man of the right type and put him out on the job, w can we do further to ensure co-operation.

This time we are going after the supervisory p sonnel such as District Superintendents, Foremen, S Bosses, Clerks, Scalers, etc. They must be made realize that safety work is an integral part of Compa operations and that the safety man has a job to perfo the same as anyone else; also that his job is a difficu and a discouraging one because so often definite re are hard to assess. I think that too often district o

(Continued on Next Page)

nel are inclined to think that the field safety man s a snap of a job of no great importance. Co-oper- on and interest of district personnel can be brought ut by:

(1) Sincere and consistent interest in safety by the Woods Manager.

(2) Making known to everyone that accident prevention is a definite and continuing policy of the Company.

(3) The sincerety and persistence in the efforts of the field safety man and by his tact and ability to enlist the co-operation of everyone.

Now that we have won over the Woods Manager our cause, chosen the right type of field man, and ained the co-operation of district supervisory personnel, e are all set to go after the worker himself. How can e get his all important co-operation? This is the crucial art of the battle but we are well prepared for it by the ade work which we have already done as explained efore.

Now it is up to the field safety man, the foreman nd the strip boss or straw boss to make the worker want to work safely and prevent accidents. Much dep- nds on their methods of approach, their tact and their atience. Once again co-operation is something which uilds up as it goes along, for when the workers see that he safety man is backed up and approved by the fore- an and strip boss, they will be much more likely to o-operate with the safety man and at least try to work in a safe manner.

Co-operation and interest of the workers can also be encouraged by educational means as follows:

(1) By posters — preferably humourous drawings. Not too many on one wall. The same poster should not remain too long in the same spot.

(2) Talks on accident prevention. Invite discussion as to how certain accidents can be prevented.

(3) Moving pictures.

(4) Publications of frequency records.

(5) Inter-camp safety contests.

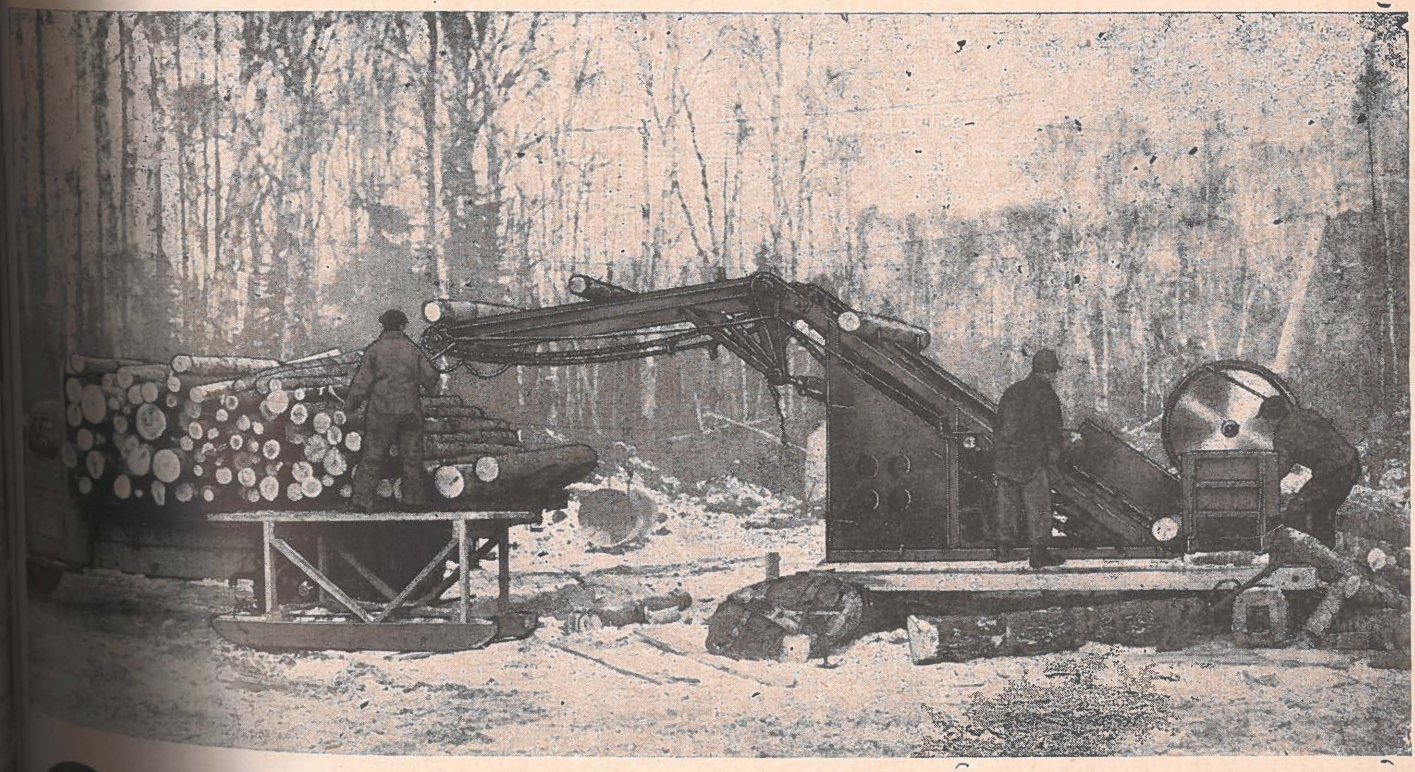
(6) Safety committees.

These are some of the more obvious methods of arousing and maintaining the interest of the workers. No doubt you gentlemen have thought of many more ideas in this connection.

Now we have pretty well covered the field of co-operation and everyone is working together towards a common goal, and everyone has reached the stage where pride is taken in a good accident prevention record and results should gradually become apparent. Of course, as we all know, the most impressive results are only apparent at the end of the year when the statistics show a decrease in accidents with the resulting benefits both in time and money to labour and management and reduced human suffering

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(Continued on Page 22)



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PORT ARTHUR, ONTARIO

LAKEHEAD SOILS COURSE

The Soils Course arranged by the Northwestern Ontario Committee on Co-ordinated Research was held at Port Arthur from June 17 until June 26, 1953.

Those attending were:

P. J. Ward, Great Lakes Paper Co. Ltd., Fort William
K. B. Turner, Lands and Forests, Toronto (Lakehead Temporary)
R. B. Dickson, Lands and Forests, Port Arthur
K. W. Hearnden, Abitibi Power and Paper Co. (Woods Division) Port Arthur
J. G. Caulkins, Great Lakes Paper Co. Fort William
F. Shreeve, Great Lakes Paper Co., Fort William
E. M. Cressman, Thunder Bay Nursery, Fort William
R. A. Lockhart, Lands and Forests, Geraldton
G. A. Ashenden, Lands and Forests, Port Arthur
R. A. Balkwill, Lands and Forests, Sioux Lookout
A. W. Ghent, Forest Insect Laboratory, (Sault Ste. Marie) Black Sturgeon
E. R. Humphreys, LongLac Pulp and Paper Company, LongLac
J. E. Dickenson, Lands and Forests, Port Arthur
D. Hagar, Hammermill Paper Co., Port Arthur
D. Wilson, Marathon Paper Mills, Port Arthur (field work in Pic and Nagagami Areas)
E. A. Smith, St. Lawrence Corporation, Nipigon
H. Haswell. Forest Insect Laboratory, Sault Ste. Marie
N. F. Lyon, Lands and Forests, Port Arthur

The course was conducted by Mr. Angus Hill, Soil Specialist, Department of Lands and Forests and was divided into lecture work, held at the Lakehead Technical Institute, and field work. Field trips were made daily to the organized townships close to the Lakehead, the Oscar Styffe limit at Arrow River; the Dog River concession of the Great Lakes Paper Co.; Block Three of Abitibi Power and Paper Co.; and the Black Sturgeon concession of the Great Lakes Paper Company.

Another course was held in the Kenora-Fort Frances area.

TWO MILLION CORDS PULPWOOD CUT ANNUALLY IN LAKE STATES

During the past 10 years an average of nearly 2,000,000 cords of pulpwood was cut annually in the Lake States.

Production showed an upward trend during that period. The Lake States Forest Erperiment Station reports that the addition of several new mills and the enlarged daily capacity of existing mills in the region has increased demands for wood.

Minnesota produces 42 percent of the average total output; Michigan, 34 percent; and Wisconsin, 24 percent.

Aspen, which ranked fourth as a pulpwood species in the region at the beginning of the period, is now the number one species. Hemlock, once the principal pulpwood species, is now fifth in importance. Pine, spruce and balsam now rank second, third and fourth.

Lake States Timber Digest

FOREST INSECT COLLECTION

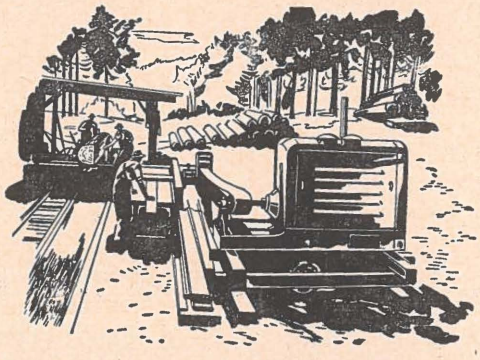
During the months of April and May, 713 collections were received by the Forest Insect Survey at the Sault Ste. Marie Laboratory (165 from conifers, 539 from non-conifers, 2 from miscellaneous shrubs and 7 from host unspecified). Fourteen of the collections contained no insects and the remaining 699 collections contained a total of 831 insect samples.

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LONGLAC FIRE PROTECTION SCHOOL

Longlac Pulp and Paper Company's Fifth annual fire school was held on May 7 - 8. The morning sessions were held in the Recreation Hall and the afternoons were devoted to field sessions, the first at Picnic Point and the second was spent touring the Department of Lands and Forests Air Base at Geraldton.

During the two day session interesting talks were given by Lands and Forests and Company personnel. Lively discussions were enjoyed on all phases of fire protection and fire suppression. A wet and noisy competition in pump operation and hose laying was enjoyed at Picnic Point. Contestants were from the Kenogami and East Highway district with the Kenogami boys emerging as disputed winners. A good turnout from both the camps and the townsite boosted the spirit of the competition.

As in former years the Department of Lands and Forests lent their whole-hearted co-operation to the school. In addition to a most interesting tour of the Air Base they were able to give a Helicopter demonstration and a water bombing demonstration. Mr. George McAdam, Department of Lands & Forests Forest Protection Supervisor, gave several interesting and instructive talks. George, as in former years, was able to emphasize his talks with the hard punch of practical experience.

It was felt by all participants to have been two days well spent.

PROGRAM

9.00 AM	Introduction of guests — W. R. Cooke.
9.10	"Why get Excited" — A. F. Buell.
9.30	The purpose of this meeting — W. R. Cooke.
9.45	Presentation of Honorary Fire Warden Badges — U. W. Fiskar.
10.15	Film — "Fighting Fire with Hand Tools."
10.45	Comment on film and remarks on the use of Hand Tools — Geo. McAdam.
11.15	How to wreck a fire pump — Ernie Bredin.
11.45	Description of afternoon demonstration — W. R. Cooke, Geo. McAdam.
12.00	Noon Break.
12.15	Lunch —at HQ Commissary.
1.30 PM	Pump demonstration at Picnic Point.
2.30	Hose laying demonstration — Dept. of L & F.
3.00	Hose laying competition.
4.00	Re-assemble in the Recreation Hall for question and answer discussion — including Power Saw Hazards — J. E. C. Pringle.
5.00	Meeting adjourned until Friday 8.30 AM
5.30	Supper at HQ Commissary.
8.30 AM	Responsibility of Supts & Foremen with gard to fire prevention — A. L. K. Switz
9.00	Routine Fire Control in Camp and Bush Camp, inside and out; Bush; Equipme Education of Cutters; Training of Fire Cre Proposals re Fire Wardens — W. R. Coo
9.30	Film "Fighting Forest Fires in North Ontario."
9.45	Comments on Film — and short talk initial attack — Geo. McAdam.
10.15	Operations VS Fire Control — G. L. Putto
10.30	Panel Discussion on District Fire Control H. Renaud, K. McCron, A. Ste Croix.
11.30	Description of afternoon's exercise — W. R. Cooke.
12.00	Noon Break.
12.15	Lunch — HQ Commissary.
1.15	Leave for field exercise to be announced.
5.00	Get-to-gether in Mens' staff house.
6.30	Turkey Banquet at Birchs' Hall.

TRAINING FILMS AVAILABLE

26 copies of the film "Fighting Forest Fires Northwestern Ontario" have been sold as follows:

Ontario Department of Lands and Forests ... ...
Ontario Paper Company Limited, Heron Bay South, Ont.
Longlac Pulp & Paper Company Ltd., Longlac ... ...
K V P Company Limited, Espanola, Ont. ... ...
Newaygo Timber Company Limited, Port Arthur ...
Department of Resources and Development ... ...
St. Lawrence Corporation Limited, Nipigon ... ...
Marathon Paper Mills of Canada Limited, Port Arthur
Canadian Forestry Association of Ontario, Toronto
Anglo-Canadian Pulp & Paper Mills Ltd., Quebec, P.Q.
Spruce Falls Power & Paper Co., Ltd., Kapuskasing, Ont.
Quebec North Shore Paper Company, Baie Comeau, P.Q.
Ontario-Minnesota Pulp & Paper Co. Ltd., Fort Frances, Ont.
Great Lakes Paper Company Limited, Fort William, Ont.
Fraser Companies Limited, Edmundston, N.B. ...
Dryden Paper Company Limited, Dryden, Ont. ...
Abitibi Power & Paper Co. Ltd., Port Arthur ...

A copy of this film is available on loan to sma companies and others.

"Fighting Forest Fires With Hand Tools"

(Continued on Page 23)

NOW Is The Time To Think of Next Winter's HEATING!



Yes—Now is the time to get full information about the New 1953 Coleman Oil Space Heaters. They're really NEW with Fuel Saving features! Ask about Canada's new forced air heating — Coleman Blend-Air Furnaces — Information without obligation at . . .

Marshall-Wells — Distributors for Coleman

CYCLONES DAMAGE MINNESOTA FOREST CROP

Cyclones that never reach the headlines damage Minnesota's valuable forest crop to the tune of $500,000 year.

Dipping to earth in remote areas, cyclones rip through some of the state's most productive forests leaving a mass of twisted and shattered trees. What was once a stand of valuable pine becomes a mass of splintered stumps and piles of fallen trunks.

Government foresters and private landowners estimate high winds yearly cause stumpage damage of more than a half million dollars in Minnesota. If you convert these "blowdown" trees to useful products such as paper, insulation board, lumber, telegraph poles and hundreds of other items, you can see the economic loss such storms cause in terms of jobs and other values.

Forest management practices have resulted in the salvage of much of this blowdown timber. This is because operations have a well developed system of permanent all-weather logging roads permitting access to the damaged timber.

There is no doubt that the high winds this Spring have caused considerable "blowdown" in Northwestern Ontario. No estimates are available and any of this blowdown that occurs in areas not serviced by all-weather logging roads must remain there until such time as road system extends to the area of the blowdown. The lack of roads in Ontario's forests is one problem that must be overcome before effective forest management can take place.

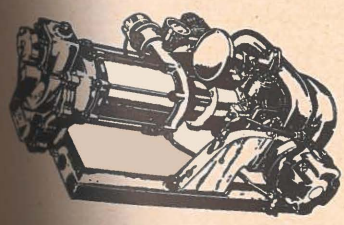
During the past 12 years, more than 1600 miles of all-weather roads have been built in Ontario's forests by logging companies at a cost of over $6,000,000.00. This problem of developing limit areas is being tackled by companies and roads are being built as quickly as conditions and operations allow. The problem is a vital one and it is believed that it is receiving the attention of the Provincial Government to see how this badly needed road system can be developed.

FOREST INSECT SURVEY REPORTS

Forest tent caterpillar

Preliminary reports on the condition of the forest tent caterpillar infestations in Ontario have been received and an interesting development has been reported from the Northwestern, North-central and Northern regions of the Province. In these regions, heavy snowfalls accompanied by severe frosts (in some localities continuous for three days) followed the leafing-out of trembling aspen trees and hatch of forest tent caterpillar eggs. These severe weather conditions prevailed throughout extensive areas destroying virtually all trembling aspen foliage and causing considerable mortality of first stage larvae. Until further surveys are conducted, it is impossible to assess precisely the effect that these frosts have had on the level of forest tent caterpillar populations. Aspen trees will re-foliate, however, in the interim, especially in areas of heavy infestation, considerable larval mortality will probably occur through starvation.

As forecast from surveys made in the fall of 1952, and as supported by field observations in May, 1953, population intensities declined to light infestation, at least in the southern part of the Sault Ste. Marie, Sudbury, and North Bay districts and in most of the central and southern part of the Parry Sound District. It is anticipated that further surveys throughout Ontario will reveal similar declines in the areas infested for three or more years. On the other hand, heavy infestations will persist this year throughout extensive areas of the Province.



BE PREPARED during the FOREST FIRE SEASON

Have a Supply of PARAMOUNT CUB or CHIEF FORESTRY PUMPS on hand with Fire Hose.

Both the Pumps and Hose are available at

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PROTECTIVE HATS

Head protection is a subject dating back many centuries. At least as early as the 6th century military helmets were in us, to protect soldiers against missiles and thrusts of the enemy. Each major conflict since then has seen improveemnts in these helmets to continue to reduce casualties from head injury.

Prior to the twenties structural iron workers were still stuffing their derby hats with wads of paper for protection, since available steel helmets were too heavy and awkward. Manufacturers, realizing the need for head protective equipment, began developing protective hats made of plastic and materials other than steel. They were light in weight, strong, and made from materials which were resistant to water, acid, and fire.

By the mid thirties the iron and steel, petroleum, public utilities, construction, meat packing, and chemical industries started to equip certain departments where overhead hazards were general. One by one, it was deemed advisable to equip additional departments, so that at the present time practically everyone who is exposed to the danger of a head injury is provided with head protection.

Principle of Protection:

The principle of head protection is based on distributing the force of a blow over the largest possible area of the head. This is accomplished in practically all types of hats and caps by suspending a shock-absorbing cradle assembly with a snug-fitting sweatband into a hard shell. When the shell is struck, the blow is transmitted to the cradle and distributed over the entire area of the head.

A high piercing strength is equally important because when a sharp pointed object strikes, the force is concentrated in a small area. Therefore, most crowns are heavily reinforced by some means to stop this concentrated blow from piercing the shell.

Glancing protection also cannot be minimized. The least force trapped on the top of a hat, the less apt the wearer is to injury. The smooth, sharply round crown is an important feature in all hats.

There are many different styles of cap type protectors. The most popular general type has a crown identical to the most common hat type. Protective hats are designed to allow air to circulate between the sweatband and shell making them comfortable even in extremely hot weather. For winter use, warm snug-fitting winter linings are used. Where there is danger of a hat falling or being blown from the head, a chinstrap should be worn.

Importance of Use:

There are hundreds of cases on record where protective hats have saved lives. In fact, this type of accideent prevention is so common today that many are never reported. However, the accidents which might have been prevented by the use of head protection receive much notoriety and usually precipitate a compiete hat program.

It is said that accident prevention starts 9 inches above the shoulders.

The increasing cost of workmen's compensation insurance is caused by high accident frequency. In the pulpwood logging industry, analysisi of woods accidents show 19% of all accidents (12% of which are head injuries) are caused by falling or suspended objects.

Results of head injuries can be death, skull fracture, permanent head injuries, misery, and loss of time.

Preventive Measures:

All woods supervisory personnel, key men, and labor — WEAR HARD HATS.

— H. H. Jefferson, Training Officer, American Pulpwood Association.

———o———

EXPERIMENTAL FOREST ESTABLISHED BY O - M

Highlighting the company's participation in National Forest Conservation Week, May 16 - 23, J. MacKellar, vice president and general manager of The Ontario-Minnesota Pulp and Paper Company Limited, announced the establishment of an experimental forest on the highway between Fort Frances and Kenora, Ontario.

Representing an area of 3,000 acres, the forest will be a source of new insight into better ways to harvest and perpetuate the forest areas of Ontario. So far 212 sample plots have been established, MacKellar said.

The main reason for establishing the forest, he added, is to experiment with different cutting methods and costs and to determine the relative success in obtaining natural regeneration following the harvest.

The study of woods problems in experimental forests is a regular part of Mando' long-range forest management program aimed at putting lands under its jurisdiction on a sustained yield basis.

Another part of the company's management program, MacKellar said, is the planting of trees, the broadcast of seeds, the discing of cutover areas and the planting of seeds by hand.

Last year, on an experimental basis, the company planted 35,000 seedlings and so far this year 17,000 trees have been planted in the company's operating area, MacKellar said.

A 30-acre plot that was burned last year was also seeded using the broadcast method. This area will be revisited many times by company foresters so that an accurate record may be kept of the success of the project.

In cooperation with the Ontario Department of Land and Forests, a hand seeder is being used on an experimental basis by Mando. Plots have been established. They will be checked periodically and the government will be edvised of the results.

Because adequate fire protection is the first step in forest management, the company has a fire fighting and fire prevention program for its forest areas. The company works closely with the Department of Lands and Forests that has the primary responsibility for the protection of Ontario's forests.

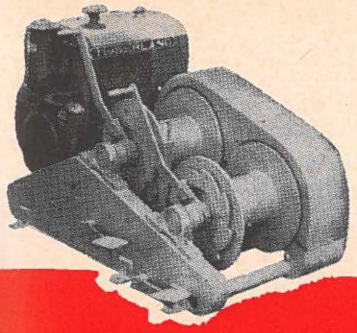
Mando will cooperate this summer with the Dominion Forestry Branch in a study of white and Norway pine in the Lake of the Woods area, Mr. MacKellar said. These studies are designed to obtain information that will lead to increasing the number of white and Norway pine stands throughout the Dominion.

Areas that don't naturally lend themselves to natural reproduction are being studied by the company with the hope of finding out just how these areas can be put back into production.

The spruce budworm has attacked company timber in the Patricia and Lake of the Woods concessions. The company has provided accommodations for government entomologists as they sought ways to combat this destruction of timber resources, and has cooperated in many ways.

A COMPLETE LINE OF WINCHES

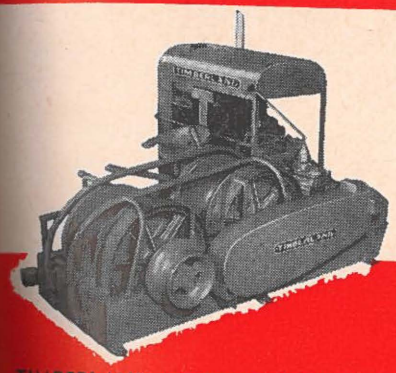
DESIGNED FOR THE LOGGING TRADE



TIMBERLAND JAMMER WINCHES

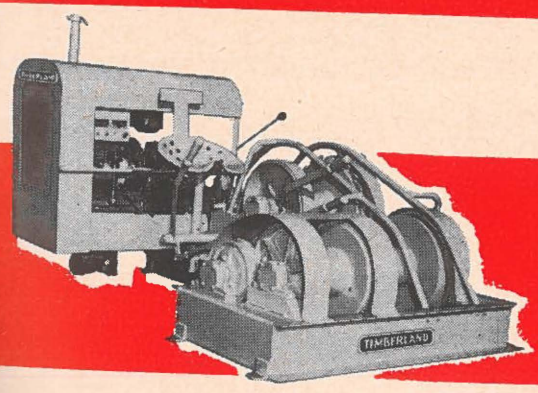
A complete range of light jammer winches from 5 to 31 horsepower, available as a single or double drum unit. Second drum can be easily removed or installed.

Whether your job is loading, transferring, decking or skidding logs, you will find a Timberland Winch well suited to your requirements. These high quality machines incorporate many features of advanced design including all steel gears and drums, anti-friction bearings and alloy steel shafts.



TIMBERLAND DECKING WINCH

The answer to decking your logs quickly and economically in a small area. Also used for heavy jammers, for skidding or for pile driving. Note line guards, operator's seat and grouped controls.

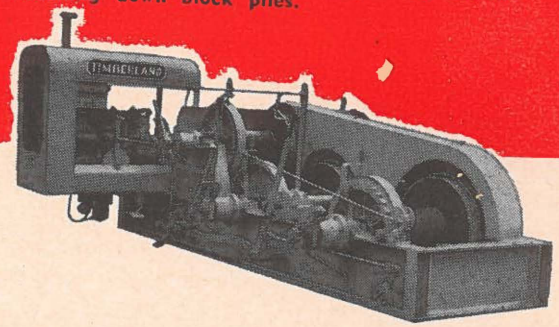


TIMBERLAND DERRICK WINCH

Similar to the decking winch shown above but equipped with a reversible outboard drum for swinging a derrick turntable. Available in several sizes to provide capacity for a wide range of applications.

TIMBERLAND SKYLINE WINCH

An ideal unit for skyline work in unloading wood at landings, bench yarding from strips or breaking down block piles.



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TREE PLANTING ON THE INCREASE

Estimated 12 million of the more than 22 million young trees to be planted this year under the reforestation program of the Ontario Department of Lands and Forests now go into private land owners and the Department has issued advice on their care in handling.

More than 6,000 such applications have been received this year, a decided increase over 1952. The trees are supplied at a nominal charge for planting as shelter belts or to replenish woodlots.

The majority of these applications for planting trees on private lands are from landowners in the Southern Ontario area. Farmers, settlers, etc., in Northwestern Ontario have not as yet demanded trees in any substantial amounts from the Northwestern Ontario Nursery situated in Thunder Bay District. Every encouragement should be given to farmers to use this source of supply and the fact that a Fort William physician, Dr. W. P. Hogarth, won the 1953 National Conservation Award of the Canadian Forestry Association, should lend some encouragement to increase planting in this area.

In the forest management unit near Thessalon, Ontario, some 397,000 trees were planted in the Kirkwood District on the edge of the Mississaugi country. Jack and Red Pine were planted in sunny, sandy locations and White Spruce were planted under poplar stands. As long as the poplar provides shade for the saplings, they will be allowed to stand and later will be logged.

An experiment is being carried out in planting 20,000 Red Oak trees in Kirkwood. More than 18 species of White Pine from across Canada will also be tried out.

In the Thunder Bay Area, the Department of Lands and Forests planted about 250,000 young trees in the Kab Lake area. Of this 250,000 seedlings, 115,000 were Red Pine, 60,000 White Pine and 75,000 White Pine. Trees were also planted in the Fort Frances District by the Department of Lands and Forests.

Industry Planting

Woods operators in Northwestern Ontario, Northern Ontario, report planting programs as follows:

The Ontario-Minnesota Pulp & Paper Company Limited

In the Kenora Division, 17,000 trees were planted by hand using a T-slit method. By species, the number planted breaks down into

Red Pine	—	11,500
Jack Pine	—	1,000
White Spruce	—	4,500

Most of the seedlings were put in on Lake of the Woods Concession although a few were planted on the Patricia Concession.

Of the latter, 500 were planted by the school children from the Camp Robinson Logging Headquarters. It may be of interest that the children attack the project with great gusto and do a surprisingly good job.

Oscar Styffe Limited

Planted 15,000 White Spruce transplants on the limit at Arrow River.

Longlac Pulp & Paper Company Limited

SPRING —

Black Spruce	2-2	105,000
White Spruce	2-2	67,000
Norway Spruce	2-2	4,000
Red Pine	2-2	22,000
Black Spruce	2-0	286,350
White Birch		1,200
		485,550

All of the above, with the exception of the Pine and the White Birch, were planted in cutover a The Red Pine and Birch were planted as windb around the transplant beds in the new nursery.

FALL — proposed planting

Black, White and Norway Spruce	2-2	350,000

BRUSH SCATTERING

It is proposed to treat 2,500 acres of cutover this method. This treatment is confined to areas which Jackpine formed the major component of cut, and in which hardwood is scarce or is absent consists of scattering fresh, cone bearing Jack branches on mineral soil that has been exposed thro logging or by hand scarification methods.

TRANSPLANT NURSERY

A transplant nursery covering 45 acres is b prepared for the production of 1,000,000 (2-2) trees year — the stock to be received from the Kapuska Nursery of the Spruce Falls Power & Paper Co. Ltd whole nursery area will be under cultivation this with the first 10 acres (2 fields) ready for planting 2-0 Spruce in the spring of 1954.

Abitibi Power & Paper Company Limited, Port Arthur Division

(1) In May, 8,000 White Spruce, 2-2 plan stock, supplied by the Thunder Bay Nursery, were tablished on a portion of abandoned farm land near Wolf River which is now owned by the Company.

(2) In Autumn 1953, the Abitibi propose underplant 10,000 White Spruce 2-2 planting st again supplied by the Thunder Bay Nursery, in cer stands on Abitibi's Experimental Forest, Block 3.

Marathon Paper Mills of Canada Limited

This spring a total of 12,000 trees were planted the Big Pic Concession of the Marathon Paper Mill Canada. Of this total, 10,000 were planted by the Sc of Marathon in their Scout Forest which now to 45,000 trees. Species planted this year were

White Spruce	—	5,000
Jack Pine	—	5,000

The remaining 2,000 trees were planted by school children of Caramat and Stevens (1,000 e and included Jack Pine (800 trees), Scotch Pine trees), and White Spruce (800 trees).

Newaygo Timber Company Limited

Prince & Jarvis Locations — 85,000 white sp seedlings 2-2 stock planted during the month of in cutover areas, with a further additional 20,000 lings to be planted in September.

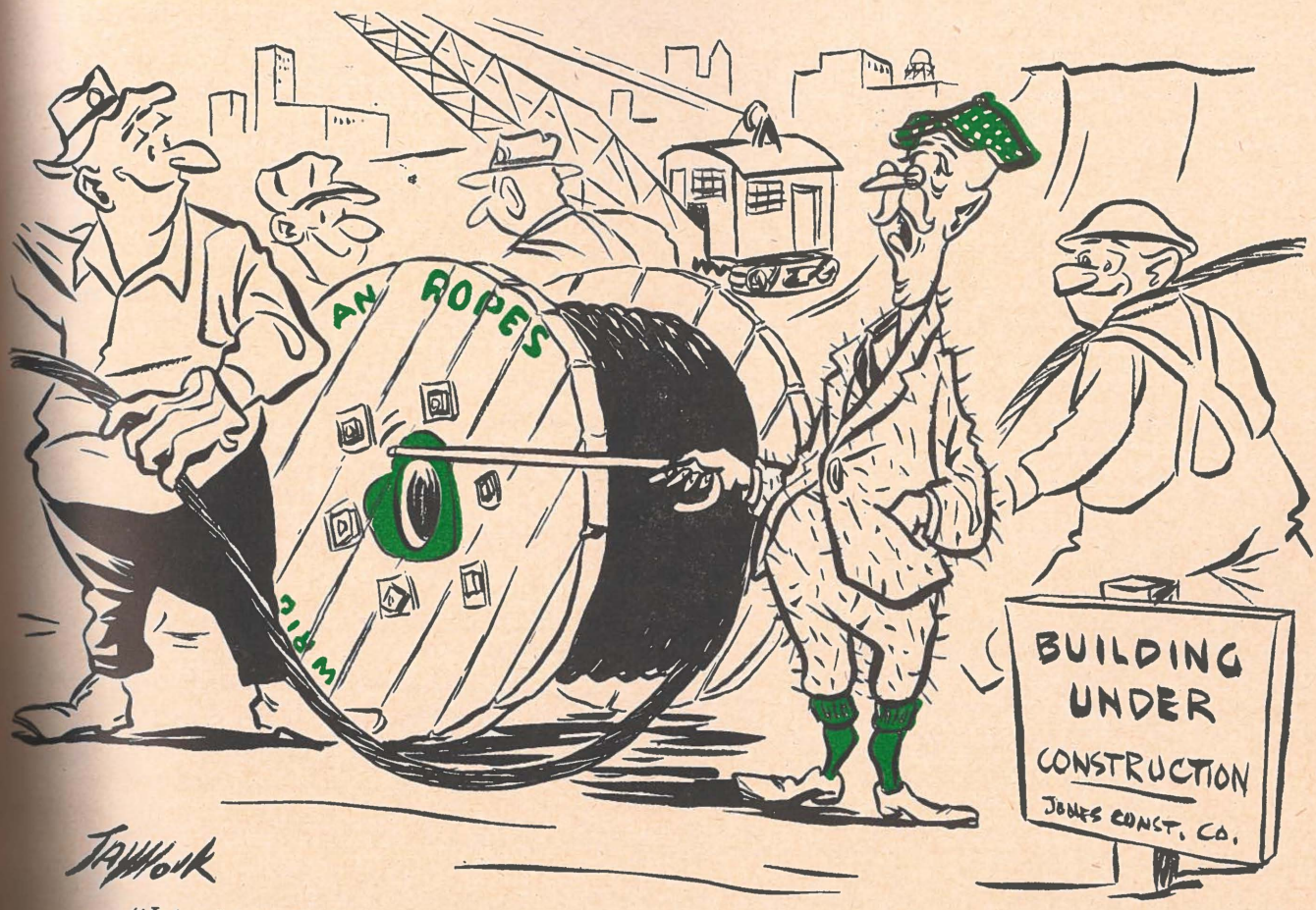
Martin & Mildred Townships, Algoma District 30,000 white spruce seedlings to be planted on s areas this fall. It is proposed that a root rake on a Caterpilar tractor will clear the underbrush and sc the soil in 12½' wide strips where the seedlings be planted.

Hanlan Township, Cochrane District — 20 white spruce seedlings have been planted on a c farm area owned by the Company adjacent to the Canada Highway, west of Hearst, Ontario.

Spruce Falls Power & Paper Company Limited

During the spring of 1953, the Spruce Falls P & Paper Company Limited planted 277,000 tree which 196,000 were black spruce, 65,000 white sp 11,000 Norway spruce and the balance pine and species. The largest part of the planting is usually

(Continued on Page 23)



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LAKE SUPERIOR TIMBER COMPANY — Hawk Junction
T. Nirkkola

Answers

1. P.E.I. has 45.07 persons per square mile, Nfld. has 2.4[illegible] national average is 3.88 persons per square mile.
2. Alberta.
3. $143,000 every hour, or $1,250 millino a year.
4. Lake St. Clair.
5. In the Gulf of Mexico, Hudson Bay, the Arctic Ocean
6. Quebec.
7. Great Bear in the N.W.T.

EE PLANTING ON THE INCREASE

(Continued from Page 20)

the fall when a longer planting season is available. bout 650,000 trees will be planted then.

Planting operations are confined almost entirely to gh ground cutover, with usually one crew reforesting d burns and the remainder working at operating camps cutover of the last one or two years.

TRAINING FILMS AVAILABLE

(Continued from Page 16)

National Film Board coloured 16 mm. talkie, is also available to anyone wishing it. Request these films from the Editor.

Companies are urged to show these movies to their employees. In addition, local service clubs, church organizations and any civilian organization should be shown these films.

Make it a point to ensure that people in your own community are forest fire conscious and one way to make them forest fire conscious is to show them how the fires must be fought once they are started.

IROQUOIS FALLS WOODS DEPARTMENT HOLDS COURSES

The Abitib Magazine reports that three courses were conducted during the Spring break up period as follows:

Cooks

The fifth annual school for first and second cooks was carried out.

Mechanics

A series of talks on the development of mechanical bush operation and the importance of furthering education and thinking in order to keep up with the ever expanding development were given.

Foremen

Changes in bush operations in the last few years created problems that the old-timbers were ill-equipped to handle, necessitating a great change in the thinking and planning of the foremen.

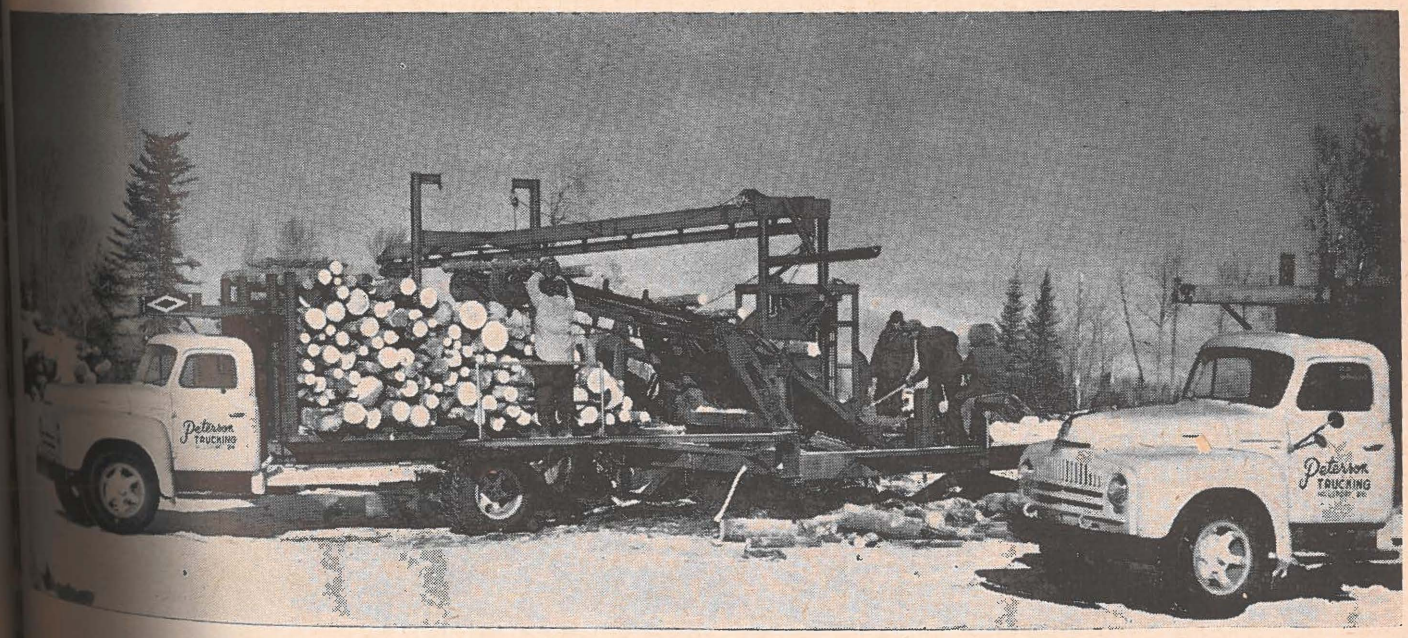
It is the general feeling that these schools are the means for all woods workers, foremen, mechanics, and cooks to keep abreast of the fast moving developments that surround us.

Foremen and instructors joined with the cooks and mechanic for the closing banquet.

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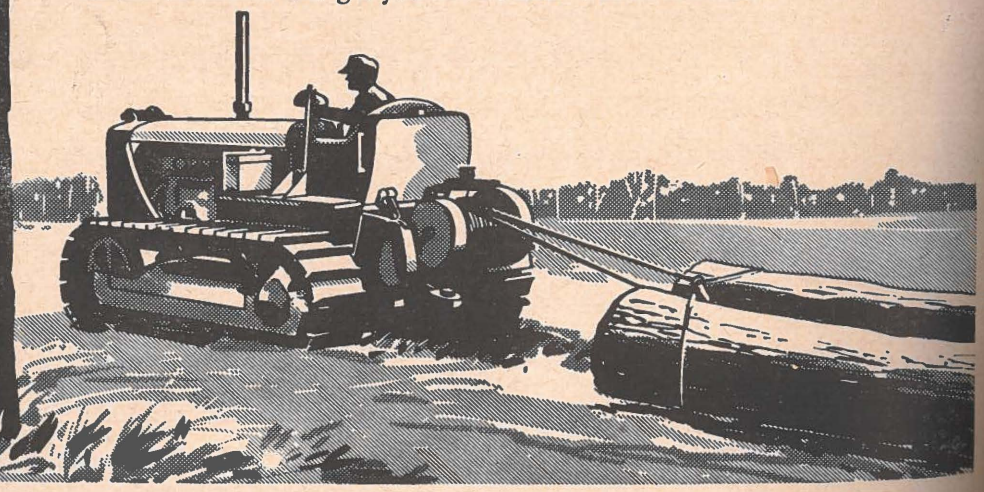
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