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THUNDER BAY TIMBER OPERATORS ASSOCIATION

LOG BOOK

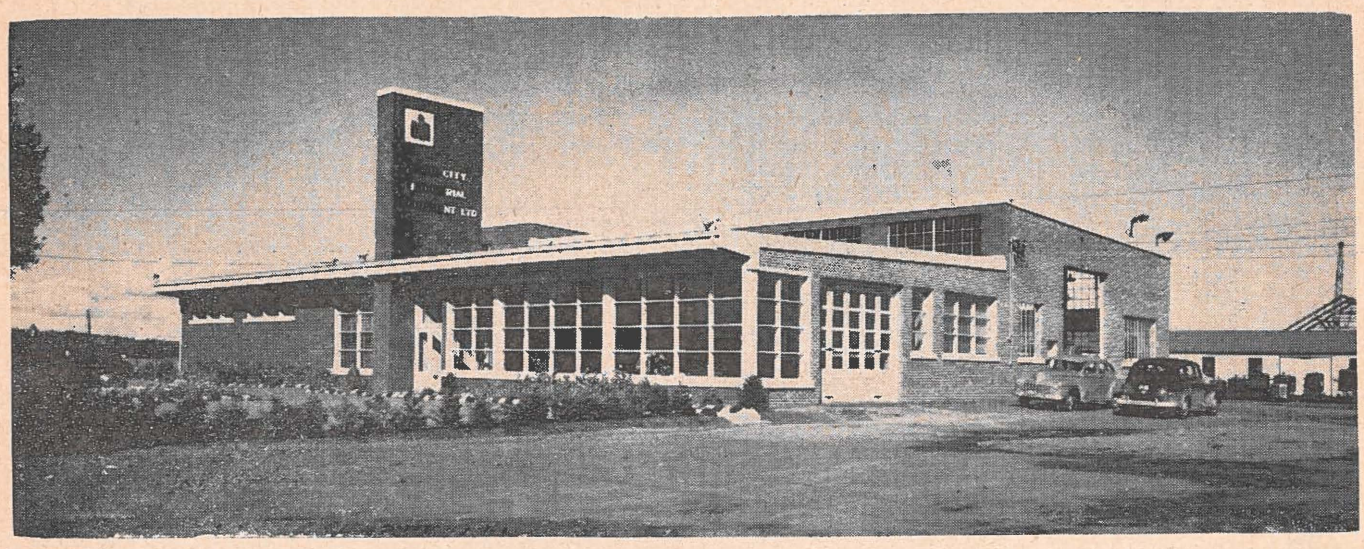
MAY
1949

VOL. 1 PORT ARTHUR, ONTARIO NO. 7

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THE THUNDER BAY TIMBER OPERATORS' ASSOCIATION

Edited by
T. S. JONES

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President's Message

Early in May, Port Arthur and District were fortunate in having the presence of Dean J. W. B. Sisam of the Faculty of Forestry, University of Toronto, who met with a number of Lakehead citizens to discuss the activities of the Canadian Forestry Association of Ontario.

The primary objective of the C.F.A. is to provide for public education on the value of conserving our natural resources and particularly with respect to the impressing on all peoples the importance of protection of forests from fire.

We, of the industry, are very proud of the efforts which the C.F.A. have already been making towards forest conservation generally and at this time we would like to wish them well with their new branch in the Province of Ontario and with the new organization which will be set up locally at the Lakehead. It is extremely important to have all of those who benefit directly or indirectly from our forest wealth working with us in our attempts to conserve and properly use our forest assets.

As members of the largest industry in Northwestern Ontario, we can renew our efforts to set the pace and the example for members of the C.F.A. There is no better time than at present to set out a reminder here that with the approaching fire season we should be acutely conscious of the various rules to follow in order to prevent fire. Let us then do our part this year and once again give our very best wishes to the C.F.A. in its efforts.

H. H. 'BERT' STYFFE.

CLEARING LAND ? ?

A Nicaraguain proverb says:

"One man in one day with one match can clear 100 acres."

This proverb is wrong! It should read:

"One man in one day with one match can DESTROY 100 acres."

CPPA Woodlands Section Meeting to be sponsored by Brompton.

A fire protection meeting of the CPPA will be held on the Brompton Beardmore Limits June 16 and 17, 1949.

COVER PICTURE

THE DRIVE IS ON!

Picture through the courtesy of the Great Lakes Paper Company, Limited magazine "LINK."

NORTHWESTERN ONTARIO COUNCILLORS WOODLANDS SECTION, C.P.P.A.

At the annual meeting of the Woodlands Section of the Canadian Pulp and Paper Association A. F. Buell, LongLac Pulp and Paper Company, Limited; A. H. Burk, K.V.P. Company; P. V. Lemay, Marathon Paper Mills of Canada Limited were re-elected as councillors and J. H. Merrill, of the Brompton Pulp and Paper Company Limited was elected as a councillor.

SUMMERS' STRIP-LOADER AT HERON BAY

The April issue of the Observation Post (magazine of the employees of the Ontario Paper Company Limited) reports that the strip-loader of Ted Summers, Woods Superintendent at Hemlo, took out 30 per cent of the wood at Heron Bay last winter.

Many operators in Northwestern Ontario have viewed this strip-loader or "sloop" and are following the experiments with interest.

IMPORTANT

Don't be scared by the two words:

Research and Efficiency

Research—is going out to look for a change instead of waiting for it to come.

Efficiency—is a better way of doing things.

WHAT MAKES A LEADER

The boss drives his men;
The leader coaches them.
The boss depends upon authority;
The leader on good will.
The boss inspires fear;
The leader inspires enthusiasm.
The boss says, "Get here on time".
The leader gets there ahead of time.
The boss fixes the blame for the breakdown;
The leader fixes the breakdown.
The boss knows how it is done;
The leader shows how.
The boss makes work a drudgery;
The leader makes it a game.
The boss says, "Go";
The leader says, "Let's go."

District Log Sawing Champion 5th at Montreal Contest

Ludovic Cyr, crowned Thunder Bay District Buck-Sawing Champion at the Fort William Winter Carnival placed fifth in the Dominion Championship held at the Montreal Sportsmen's Show, March 23rd-25th. Cyr represented the Ontario Paper Company, Limited and the Thunder Bay Timber Operators' Association and made a very creditable showing.

The contest was won by Leonard Poulin, a husky 23-year-old farm lad from St. Godefroi, P.Q., who sliced through 10-inch diameter green spruce logs at a rate of better than one inch per second.

FOREST REGENERATION

By J. H. GODDEN

(The second of a series of articles by members of the Northwestern Section—Canadian Society of Forest Engineers.)

The term forest regeneration refers to the young seedlings, of all species of forest coming up under the mature forest or on cut-over, burned-over or wind-blown areas. Forest reproduction, or natural reproduction, are other terms used which mean the same thing. Generally, in everyday conversation, the seedlings are referred to simply as regeneration or reproduction.

This natural reproduction of our forests is a tremendously important thing to future generations and to the future economy of the country. Fortunately the public, who are the real owners of most of the Canadian forests, are beginning to realize the importance of providing for another crop of timber. Also, in most of the forest industries today, top management is convinced of the soundness of a sustained yield programme which means the supplying of mills in perpetuity from the area of forest land assigned to them.

If a sustained yield policy is to be successful, our forests should be regarded as a crop, and as the mature timber is removed, provision must be made for the second crop. Thus, rgeneration, either by natural or artificial means, or both, becomes an absolute must and the problems associated with the attaining of satisfactory reproduction should be given top priority. Only when we can honestly say that we have left our cut-over lands sufficiently restocked to produce a crop at least as good as the one we have taken, can we feel that we have fulfilled our minimum obligations as responsible citizens and forest operators.

This is a job for everybody. Every man working in the woods can and should have a hand in protecting and conserving regeneration and advance growth found in the mature forest before cutting. The foreman especially can do much by encouraging his cutters not to needlessly slash the young growth in the course of their work. This may seem like a small thing but when multiplied by all the cutters at work in the bush the country over it becomes a very big thing and each man who so does can feel that he has made a definite contribution to the perpetuation of the industry in which he finds his livelihood.

Company management, government officials and foresters all have their part to play as well, in promoting and carrying out regeneration surveys, research work on the subject and putting into effect such policies as may be indicated as being necessary to achieve the desired result.

Although a good start has been made on the study of reproduction on cut-over and burned-over lands both by private industry and government we have a great deal to learn. Some of the outstanding problems as yet unsolved are:

1. How can we control the species which will spring up naturally on the cut-over area?
2. How can we attain natural reseeding of 100 per cent of the areas cut-over instead of only a portion as is now the case?
3. What is satisfactory regeneration or how many strong, healthy seedlings per acre are necessary to provide a crop equal to the one removed?

Let us consider each of these problems separately as they affect us in Northwestern Ontario:

Problem number one concerning the control of species of reproduction is undoubtedly of prime importance if one is convinced that Spruce, for instance, will be just as desirable, in relation to other species, 75 years from now as it is today. Th matter of desirability of a species 75 years from now is only mentioned as a passing thought. There is no answer to it and the general opinion in the pulp and paper industry, at least, is that we should do all in our power to obtain spruce regeneration.

Surveys made to date indicate that, generally speaking, natural spruce reproduction is satisfactory in the clear cut swamp types and will produce another crop at least equal to the one removed. On the highland and dry slope areas, the picture is much different. While these areas are generally fairly well restocked, Balsam Fir is the dominant species, by a wide margin. How can we turn the tables and get spruce as the dominent seedling? This is the essence of problem number one and only a great deal of practical experimenting and tundamental research will give the answer.

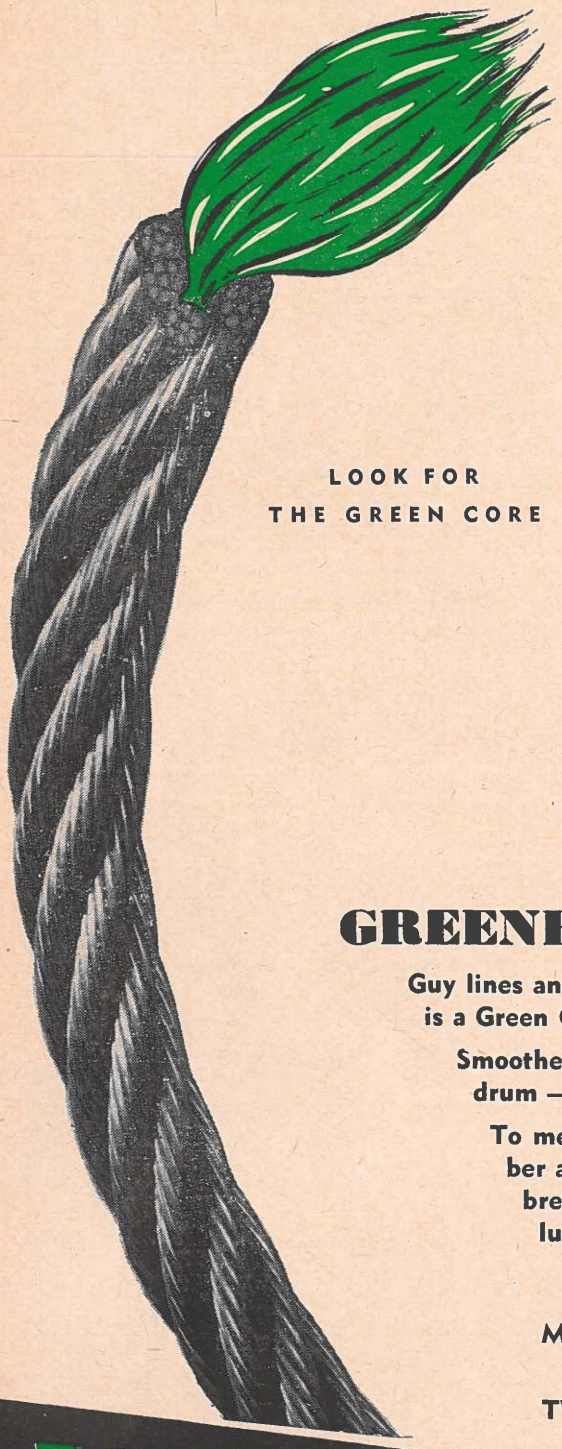
Problem number two concerning the attainment of natural regeneration on 100 per cent of the areas cut-over is one for pure research. The reasons why portions of a cut-over area remain barren or do not produce conifer seedlings are not generally evident and a complete and exhaustive study of all the factors involved is necessary. Regeneration surveys, five years after logging, on certain areas thought to be representative of conditions in the district, have shown that between 15 and 20 per cent of the areas cut-over are barren or have failed to reproduce a crop of conifer seedlings sufficient to reproduce the stand removed.

For the time being, it is generally agreed that the most logical answer is to resort to artifical regeneration (planting) on at least the better sites and the more easily accessible of these fail areas.

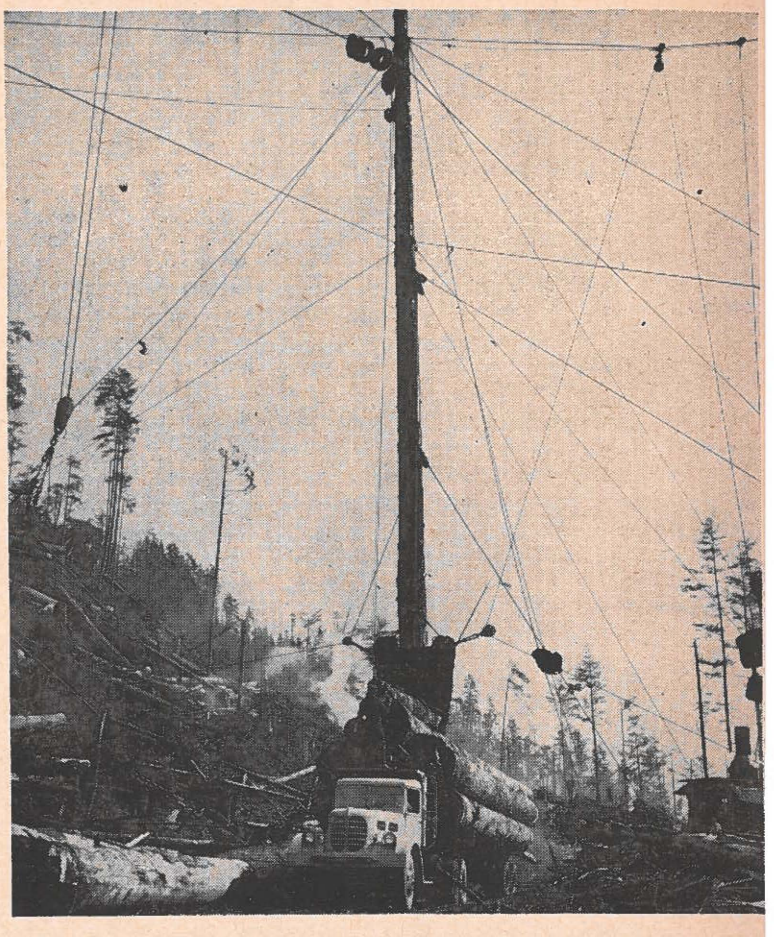
Problem number three, which has to do with the determination of the correct number of seedlings per acre necessary to produce a crop equal to the one removed, is of fundamental importance. It is the basis upon which we make our predictions as to whether or not the future crop is assured and as can easily be seen, if this basis is wrong so our picture of conditions, drawn from regeneration surveys, is distorted. When we assume 600 Spruce and Balsam seedlings per acre necessary to produce 300 mature Spruce and Balsam trees 75 years hence, thus allowing 50 per cent mortality, we are only guessing. Perhaps 400 seedlings would be sufficient, in which case, our survey based on a requirement of 600 would show a much poorer picture of regeneration than is really the case; or vice versa, if 800 seedlings are required, our records based on a requirement of 600 would show a much better picture than is really the case.

Thus, it can be seen that our basis, the foundation upon which we build, must be correct and sound if we are not to be deluded. This basis can only be established when many measurements and much study have been carried out on all types of forest stands from the seedling stage through to maturity.

(Continued on Page 9)



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Preloading Pulpwood Racks Result Saving

More truckloads per day and less lifting strain on men are obtained by preloading pulpwood in especially designed racks now being used in the South and tried elsewhere. These are loaded on the ground by the wood cutter and eliminates the use of a top loader on the truck.

Extra heavy three-inch pipe, bent in the shape of a U and reinforced at the bottom, is used for the racks. The reinforcing provides a raised bottom for the load so that the lower portion of the pipe serves as a runner. Each rack is built to a standard unit size that facilitates volume measurement. These are used with self-loading trucks that are equipped with a power-takeoff winch mounted between the frame members behind the cab. The truck body consists of steel channels to accommodate the racks. Two detachable channel skids are hooked on during loading operations.

When the truck is spotted the winch cable is pulled out and attached to a rack. Winding the cable pulls the rack onto the truck. After the last rack is on, the skids are unhooked and the load fastened with chains.

Normally less than ten minutes are required to unload two empty racks, load two filled ones, remove the ramps, and bind the load. When loading three racks on long wheel base trucks or four racks on semi-trailers the time is somewhat longer.

Three sets of racks are normally used with each truck so that there are two sets in the woods and one in transit. The complete unit is manufactured as a packaged kit, and can be installed by local shops in a few hours.

Although designed for pulpwood the unit is suitable for fence posts, tie cuts, and similar products. **—Lake States "Timber Digest."**

Motor Vehicle Accidents

Motor vehicle accidents in Ontario took 740 lives and caused non-fatal injury to almost 15,000 persons during 1948. In the vast majority of cases, these accidents might more properly have been termed "common occurrences"—the result of the improper use of our streets and highways.

Improper use of the highways includes not only the wild, reckless, drunken driving of the irresponsible few, but it includes also the negligent, indifferent, thoughtless and discourteous actions of the normally law-abiding majority. The latter group presents a problem more difficult to cope with than the out-and-out dangerous driving of a small share of our motorists. Inattention, poor judgement, discourtesy and faulty habits may be quite as dangerous under certain circumstances as the foolhardy behaviour of the most irresponsible individual. So-called minor lapses can and do have tremendous consequence.

NORTHWESTERN ONTARIO ACCIDENT TOTALS

Northwestern Ontario Districts	No. of Accidents 1947	1948
Manitoulin, Sudbury, Algoma	642	855
Cochrane	286	366
Thunder Bay	559	672
Kenora, Patricia, Rainy River	299	345
Ontario	22293	27406

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A Profit Without Honor

It would make a very interesting study for some research organization to decide in just what precise period of our recent history—and for what reason—it became necessary for anyone who made a profit to stammer out his apologies to an outraged public.

If people work, they get a wage or a salary. If they don't get the wage or salary, they, with extremely rare exceptions, quit working.

If money that someone has saved and not spent on yachts or horseracing is put to work, it MAY earn a profit. (About two-thirds of the time shareholders' money put in companies makes money, seldom averaging, in this country, more than four to six per cent. In normal times a third of all companies don't make money, according to government records.)

Profit, then, is the "wages" of saved up money, and a reward for its use in such a way as to give the public some service it requires.

Once there was a time when rising industrial profits were hailed by everyone because the money companies made, the more they had to spend; the more they could pay in wages; the more people they could hire; the more new machinery they could install with which to add to the general abundance of goods and raise the standard of living.

Well, those were the good old days when life was simple. Now, if a company makes a profit, some people can barely restrain themselves from yelling lustily for the police and many more mutter darkly about the public being exploited and big corporations grinding everyone into poverty.

By that line of reasoning, if a company loses money it should receive a plaque of public gratitude, for it must be performing its services at less than cost.

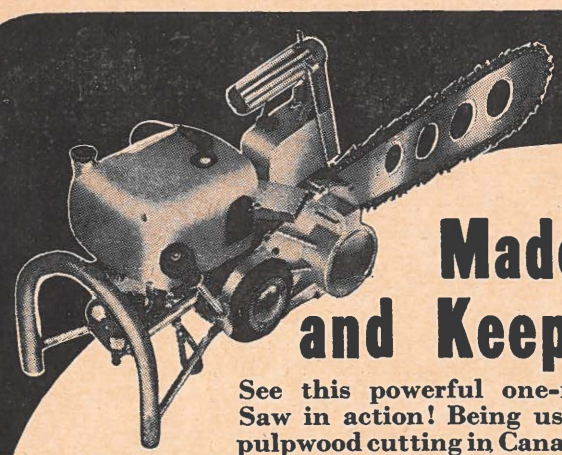
But just as people don't work if they don't get paid, companies must cease to function if they don't make "wages." In that case, the employees lose their jobs.

The day has long since passed when either people or companies buried their money in tomato tins in the back yard. Money, to be of any use, must work and it must work for people. Everyone in the country has a partnership in every profitable corporation in the country because practically every such company pays regularly several times as much money to governments in taxes of all kinds than to its shareholders in dividends. And most companies reinvest more money in their business than they pay out in profits to those who own the companies.—**Forest and Mill**

MEN OF THE WOODLANDS INCLUDED IN ONTARIO-MINNESOTA PULP & PAPER CO. LTD. 25-YEAR CLUB

Many men have served their companies faithfully throughout the past years and following is a list of persons who have served the O-M 25 years or more and belong to the O-M 25-Year Club:

A. Anderson, G. Anderson, C. D. Beaton, M. Bozok, W. Caron, P. Devlin, F. J. Elders, H. W. Forstrom, J. H. Gardner, W. Hartigan, E. Hurst, A. Huhselak, J. P. Johnson, F. Lenton, E. H. Low, J. H. MacDowell (Pensioned), N. Maler, J. Marien, J. A. Minor (Pensioned), J. S. Paterson, L. Pearson (Pensioned), J. A. Ryan, I. Salgren, H. E. Sigurdson, J. Sjostrom (Pensioned), K. Zulkowski (Pensioned).



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Port Arthur Library Has Something to Offer You

By ROBERT PORTER—Librarian, Port Arthur Library

Did you know that even though you may live outside Port Arthur, you can still borrow dozens of books from the public library at the cost of only one dollar a year?

This is a service worth considering. The public library is anxious and willing to serve people living in bush camps or in rural areas who have no ready access to books, for books today are no luxury, rather they are almost a necessity. Therefore, if you enjoy reading at all, why not consider joining the Port Arthur Public Library? To do this, write a note care of The Librarian, Port Arthur Public Library, Port Arthur, stating your wish for an application form. This form will be sent to you promptly (do not forget your address). Complete the application form and mail it to us with a dollar enclosed and listing some books you would like us to send you. You are free to borrow books, three fiction and three non-fiction at a time. Six books may be held for a month, or even longer, providing you inform us of your desire to hold them. Books can be exchanged for new ones at any time.

The borrower must pay postage or transportation costs on the books both ways, and books should be mailed to the library well wrapped in corrugated cardboard or good strong paper. Remember to write or print BOOKS on the wrapper, because printed material travels cheaply.

Of course, the borrower is responsible for the cost of a book, if he or she loses it, or damages it seriously.

The public library discards old books from time to time, and many of the discarded books may be welcomed in bush camps. We have not a large number and can only supply groups — not individuals. If you wish any, then write us—they will not cost anything, except costs of transporting them to a new home.

The library publishes book lists from time to time which may assist you in selecting reading matter. We will be happy to place you on our mailing list at any time, or try to advise you on any problem relating to books. The library is here to serve you, it has something to offer you. There are thousands of good books to select from—books which will while away a dull hour just as effectively as the movies.

Remember, if you want to learn more about our services (which are as inexpensive to you as we can make them) write, care of The Librarian, Port Arthur Library. Our motto is service—with a smile.

EDITOR'S NOTE: Libraries in other communities in Northwestern Ontario will no doubt offer the same co-operation that the Port Arthur Library does. Further enquiries should be directed to the nearest library.

Pulpwood Costs Must Be Lower to Hold Market

Lower pulpwood costs must be the aim of the Canadian pulp and paper industry to insure stable markets for its products, W. A. E. Pepler, manager, told the annual meeting of the woodlands section, Canadian Pulp & Paper Assoc., recently.

High labor costs and necessity of cropping distant woodlands have led the the industry to experiment more and more with mechanization of logging operations, he pointed out. However, it is only through adherence to mass production techniques that mechanization will be able to compete with conventional methods, he added. Woods operators at present are only slightly mechanized, but fortunately general conditions in the industry are well suited to application of such techniques, he said.

Here are some of the items of mechanical equipment on which reports were given:

Mechanical Saw — Performance 115-155 per cent over conventional bucksaw; user requires training and experience; less labor turnover if bush workers owned their mechanical saws.

Trucks — Hauling costs reduced by use of larger trucks, increasing yearly mileage; should study costs to determine economic limits for use of trucks.

Tractors—Flexible and efficient for hauling sleighs of pulpwood over ice roads and snow roads without a roadbed.

Woods experts point out that mechanization is still in the very early stages of development. Woods manager of one large company, however, stated 40 per cent of the company's pulpwood had been taken out mechanically last year, that this would be increased to 75 per cent in 1949. At least two other large operators reported greater use of mechanical equipment.

Other points touched on at the meetings included:

Silviculture — Steps have been taken by some companies to introduce hybrid species which would produce more pulp per acre. Further study of tree species which produce greatest yield of pulp under Canadian climatic and soil conditions was urged. Edward Bonner, chief forester of Spruce Falls Power & Paper Co. at Kapuskasing, Ont., reported that company's long term research program included surveys on effects of fire on growth, types of seedbeds for proper germination, effects of cutting methods, yield of pulpwood under various conditions.

Forest nursery has been established at Kapuskasing which will have an annual capacity of five million seedlings for use in reforestation, since company had found

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that artificial regeneration was needed in some cases despite improvements achieved through alteration of logging techniques.

Forest Management — Federal and provincial authorities are taking increased interest in this phase of forest operations. Ontario Government, for instance, is taking an inventory of its forest resources by aerial photographs and ground checking. Management foresters are being appointed to look after inventory control, planning and control of operations. Forest management programs of the province's pulp and paper companies is being fitted in as part of a larger government plan to divide the forest area into management units. D. R. Stevens of Brompton Pulp & Paper reported that, from company's experience, aerial photography of its cut-over areas is more advantageous than ground surveys.

Training — Spruce Falls Power & Paper is successfully using four months' course to provide more foremen for expanded forest operations, replacing prewar apprenticeship system. Trainees make actual reconnaissance of forests to plan cutting and road lay-outs, also study accounting procedures, fire fighting methods, logging use of mechanical equipment, etc. Course promotes exchange of ideas, broadens knowledge, develops appreciation of responsibility and importance of foremen's task, it is stated.

Labor Turnover — Rate of labor turnover is rising despite improved living conditions and steadier employment possibilities. Job must be made major occupation of greater number of workers instead of just temporary one, it is suggested. Companies should measure turnover rate, find causes, introduce corrective measures.—**Financial Post.**

FOREST REGENERATION

(Continued From Page 4)

In conclusion, we may sum up the whole situation by saying that our observations and records to date indicate that nature generally does a pretty good job of providing for a second crop. However, as man wishes to improve on and alter nature's work to satisfy his needs, he must spend much time and effort in study, practical experiments and research before he can successfully attain this end. The goal of leaving our cut-over areas fully stocked with what we consider a desirable species is one worthy of our best efforts and should be rated in the business of forest management as second only in importance to adequate protection of our mature forests and young growth from excessive fire and insect damage.

IN THE DAZE OF PAUL BUNYAN—'KING OF THE LUMBERJACKS'
TM Reg US Pat Off



YEARS AGO WHEN THE MISSISSIPPI WAS ON A RAMPAGE PAUL PERFORMED ONE OF HIS MANY HEROIC DEEDS. WITH THE AID OF HIS SHIRT USED AS A HAMMOCK STRETCHED ACROSS THE HORNS OF THE BLUE OX — PAUL AND MIGHTY BABE RESCUED THE FARMER MOSBACK AND HIS ENTIRE FAMILY.

The amount of money spent by private industry in Canada on increased material costs, new machinery and new plants last year was about $2,156,000,000—almost as much as the federal goverment's estimate for its entire budget for 1948-49.

WOODSWORKERS RULES

FOR THE PROTECTION OF THE LIVES OF FELLOW WORKERS AS WELL AS THE FORESTS FROM WHICH WE EARN OUR LIVING -- FOLLOW THESE RULES:

(1) No "Tailor Made" Cigarettes

(2) No Vogue, Egyptian Zig Zag or other heavy cigarette papers

(3) No Matches - Use Lighters

(4) No Smoking While Walking or Working

(If you wish to smoke, sit down. Be sure your butt is completely out before you move.)

(5) No Lunch Fires or Fires For Any Purpose

If You smoke
Use a Rock to



When Driving the Ash Tray is
there for you to



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(Tear this out and Post

...If You Discover a Fire Beyond Your Control

...Notify Your Foreman IMMEDIATELY!



WOODSMEN REMEMBER!

Your Responsibility Is Great

The Forest Fire Prevention Act states:

(Sec. 19) For the purpose of controlling and extinguishing any fire, an officer may employ or summon the assistance of any male person between the ages of eighteen and sixtv years, excepting only trainmen, boat crews, local telephone operators, telegraphers and despatchers on duty, doctors and persons physically unfit. R.S.O. 1937, C.325, S. 17 (4); 1946, C.32, S. 14, Amended

(2) Every person who refuses or neglects to render assistance when required under this section shall be guilty of an offense against this act. R.S.O. 1937, C.325, S. 17 (5), Amended.

KEEP OTHERS FROM SETTING FIRES AND YOU WON'T HAVE TO HELP PUT THEM OUT.

Woodsmen

ESTS — TIMBER -|- WAGES

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Current Outbreak of the Spruce Budworm In the Thunder Bay Region

By J. E. MacDONALD and A. A. HARNDEN

The spruce budworm, a native forest pest of North America, has occurred periodically in epidemic proportions for more than 100 years. Balsam fir, red and white spruce stands in the New England States, the Maritime Provinces, Quebec and Ontario have been depleted at intervals by budworm attack. Although recent observations indicate that white spruce may be a favoured host species of the insect during periods of endemic population, the recurrence of outbreaks has been associated with successive generations of balsam fir.

The current budworm outbreak in Ontario became widespread in the late thirties. By 1948 heavy infestations were present over large areas of northern Ontario from the Cochrane District westward to the Sioux Lookout District. The infestation around Lake Nipigon was first reported in heavy intensity in 1943 in the Chief Bay area. Observations made since that year indicate, however, that the infestation reached heavy intensity in 1939. Since 1944 little change has occurred in the western boundary of the infestation. East of Lake Nipigon the area of heavy infestation has increased steadily since 1944. In 1947 surveys carried out on the Sibley Peninsula and on the Black Bay Peninsula revealed light budworm infestation on balsam fir and medium infestation on white spruce. Both host species were heavily infested in 1948.

The high balsam fir content of stands in the Lake Nipigon area favoured the development and maintenance of a high budworm population. Sample plots established in several areas around Lake Nipigon in 1943 and 1944 showed an average balsam fir content of approximately 50 per cent by volume. Sixteen per cent mortality of balsam fir, some of which was probably due to overmaturity, was recorded in a sample plot in the Kaiashk Bay area in 1943. Since then, severe mortality of balsam fir and moderate mortality of white spruce has occurred in a large area west of Lake Nipigon. East of Lake Nipigon in the Northwind Lake and Barbara-Jean Lake areas moderate mortality of balsam fir has occurred. The death of balsam fir from year to year following the first record of mortality varied considerably in different areas. This is illustrated in data from four plots in the Lake Nipigon infestation contained in the following table.

Summary of Mortality of Balsam Fir In Four Sample Plots, 1943-1948

Plot Locations	% Mortality of Balsam Fir by Volume 1943	1944	1945	1946	1947	1948
Kaiashk Bay	16	22	34	76	93	100
Obonga Lake	—	—	3	8	50	96
Disraeli Lake	—	—	5	6	16	22
Barbara Lake	—	18	19	21	23	38

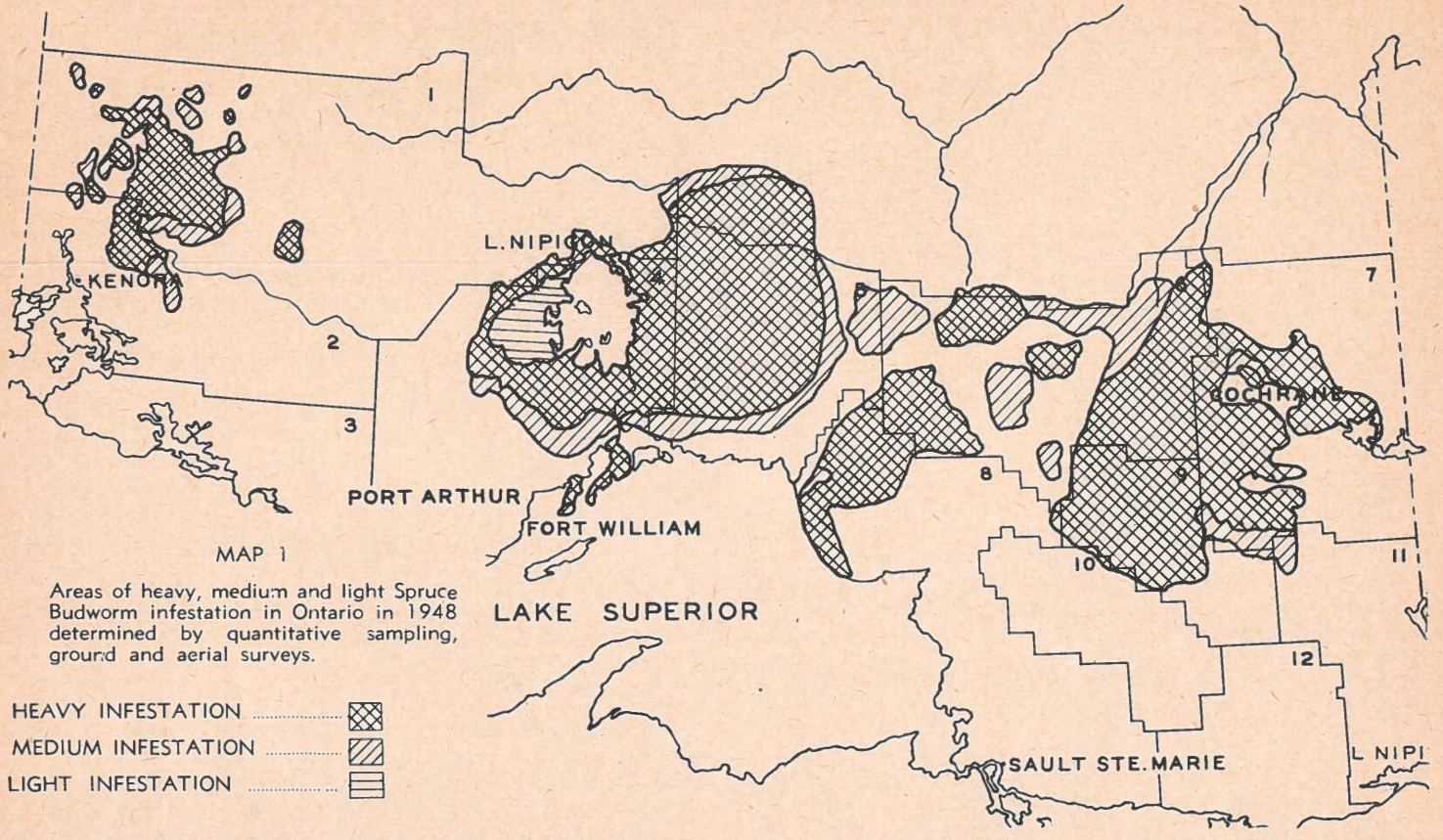
The spruce budworm population declined in the Hurkett area, south of Lake Nipigon, in 1948. This reduction occurred during the larval and pupal stages and may be attributed in part to attack by parasites and predators. Budworm collections taken in the Black Sturgeon Lake area and reared at the Black Sturgeon Lake Field Station showed an increase in the percentage of larvae killed by a parasite (Meteorus trachynotus) in 1948 as compared to 1947. Pupal parasites were also found to be more numerous in collections reared in 1948 than in former years.

One of the chief objectives of the Forest Insect Survey is to keep forest services, forest industries and other interested parties informed on the status of forest insects from year to year. To improve this service, insect rangers have been assigned to each of the forest districts of Northern Ontario. An important function of the rangers is to contact personnel in the districts regularly to discuss Forest Insect Survey work. Insect rangers may be contacted at any time through the officer-in-charge of the Forest Insect Laboratory, Sault Ste. Marie, or, in the summer months, through the district offices of the Department of Lands and Forests.

Information on the status of forest insects is further provided in several bulletins and publications. From May through September each year, the Forest Insect Laboratory distributes monthly bulletins containing up-to-date information on insect infestations in Northern Ontario. A detailed annual report is prepared by the ranger in each district containing information on the status of insects, data on mortality of host stands caused by insects, infestation maps, etc. These ranger reports are submitted to district and divisional offices of the Department of Lands and Forests and to supervisory and technical staff of the forest industries. The "Annual Report of the Forest Insect Survey," published in Ottawa, provides a yearly summary of the status of forest insects in Canada.

The writers, in this article, have attempted a concise outline of recent spruce budworm outbreaks in On-

(Continued on Page 16)

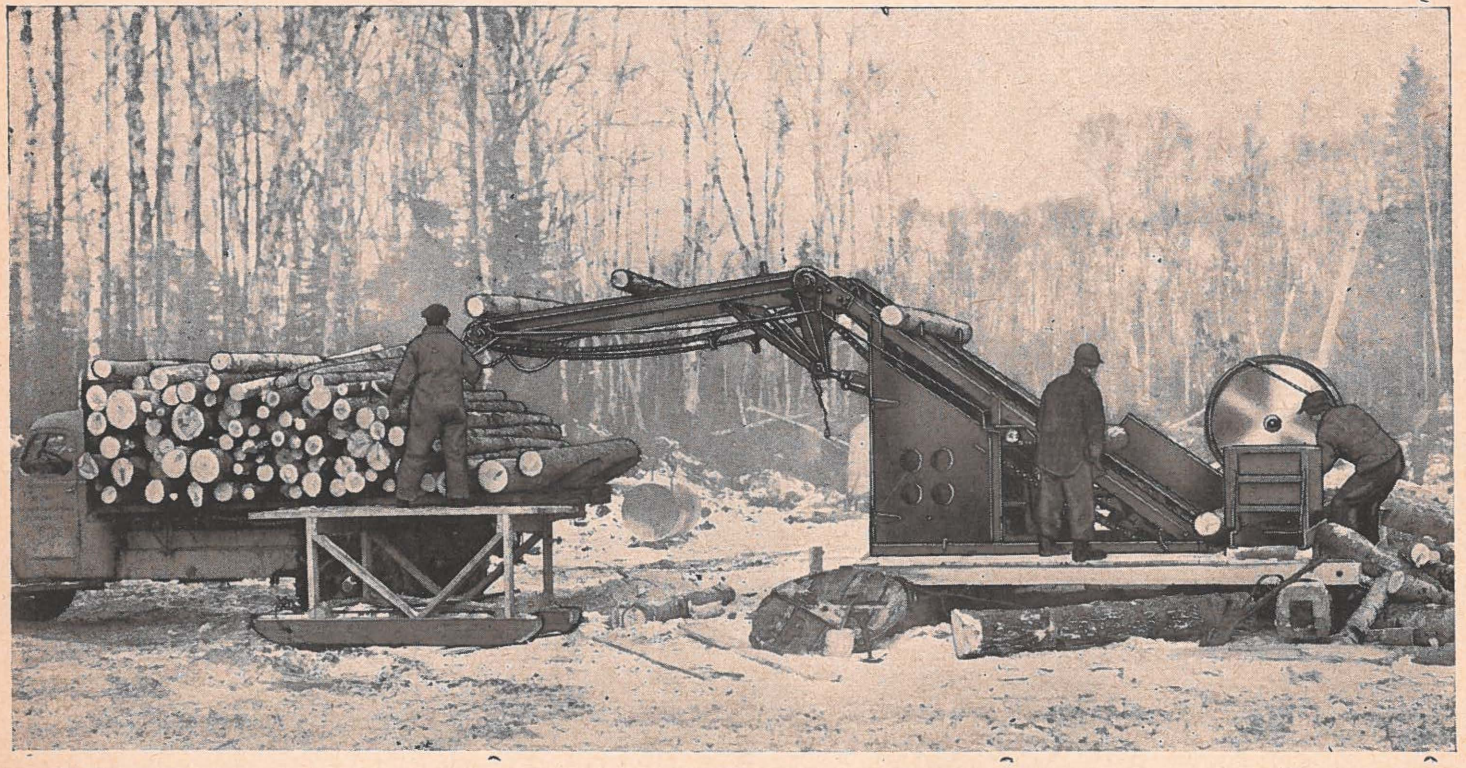


MAP 1

Areas of heavy, medium and light Spruce Budworm infestation in Ontario in 1948 determined by quantitative sampling, ground and aerial surveys.

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Life Saving Equipment

The following life saving equipment should be carried:

One approved lifebuoy (if the vessel is in excess of 20 feet in length).

One approved life jacket for each person on board.

If more than 12 passengers are carried, approved buoyant apparatus sufficient to accommodate 50 per cent of the number of persons on board.

Fire Extinguishing Equipment

Fire extinguishing equipment in accordance with the following should be carried:

DRY SAND—For a vessel of any size—a receptacle containing a suitable quantity of dry sand, sawdust impregnated with soda, or other approved dry material, with a scoop for distributing such material.

FIRE BUCKETS—For a vessel not exceeding 35 feet in length—One fire bucket. For a vessel exceeding 35 feet in length—Two fire buckets.

FIRE EXTINGUISHERS—(variation equivalents or allowable)—For a vessel not exceeding 20 feet in length:

One tetrachloride extinguisher of 1¼ quarts capacity, of the hand pump type.

One extinguisher constructed to discharge froth, of a capacity of at least 1 gallon.

(NOTE: A vessel not exceeding 20 feet in length, which is propelled by an outboard motor, is not required to carry an extinguisher constructed to discharge froth.)

For a vessel exceeding 20 feet in length but not exceeding 35 feet in length:

One tetrachloride extinguisher of 1¼ quarts capacity, of the hand pump type.

One extinguisher constructed to discharge froth, of a capacity of at least 2 gallons.

For a vessel exceeding 35 feet in length:

Two tetrachloride extinguishers of 1¼ quarts capacity, of the hand pump type.

One extinguisher constructed to discharge froth, of a capacity of at least 2 gallons.

Precautions Against Fire

As precautions against fire care should be taken to avoid leakage of gasoline, or the risk of fire due to unshielded woodwork or other inflammable material being in too close proximity to hot pipes.

PLAY SAFE — BE PREPARED

Pulpwood May Be Agricultural Crop

If a petition, now before the Interstate Commerce Commission, is favorably received, pulpwood may soon be officially regarded in the U.S. as an agricultural commodity.

Classification of pulpwood as a product of the farm and soil, the same as grain, forage, and livestock crops, is requested by the American Pulpwood Association and the American Paper and Pulp Assn.

No decision has been reached yet and further hearings are scheduled before the ICC.

Practices advocated by the Federal Department of Agriculture, loan requirements of several Federal Land Banks, and even the Webster dictionary definition, support the argument that pulpwood is by nature an agricultural crop, according to the main petition presented to the ICC by M. H. Collett of the West Virginia Pulp and Paper Co.

Other arguments presented in favor of the decision were:

Eighty per cent of the U.S. pulpwood supply comes from 261,000,000 acres of small woodland tracts, for the most part owned by farmers.

Trees, like other farm crops and livestock, have the faculty of reproducing themselves and if given treatment can, year after year, produce paying crops from the same area of land.

Other products or commodities such as ore, petroleum or gas do not have this renewable characteristic. Therefore a major distinction between agricultural products and other products of the earth is—their renewability.

A great effort is being made at present by the U.S. Department of Agriculture, state agricultural and conservation agencies and private concerns to promote the handling of pulpwood as an agricultural crop.—**Lake States "Timber Digest."**

EDITOR'S NOTE: The land ownership situation is different in Canada in that 9/10 of the total forest area is owned by the Crown, that is the people of Canada.

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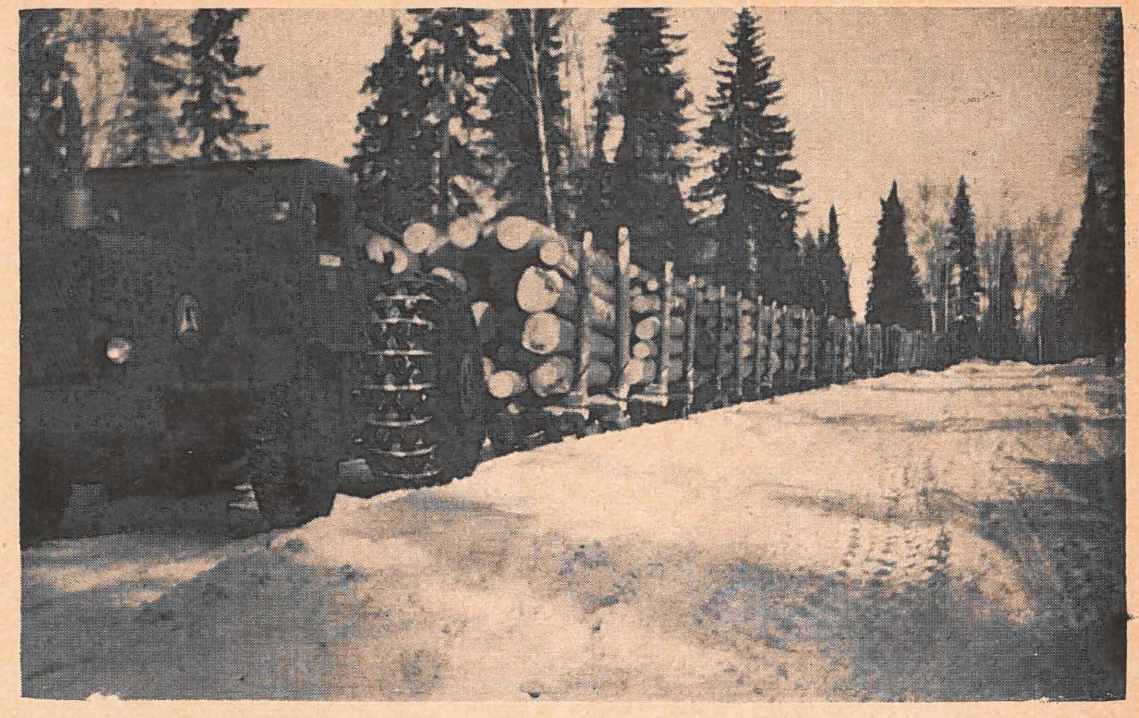
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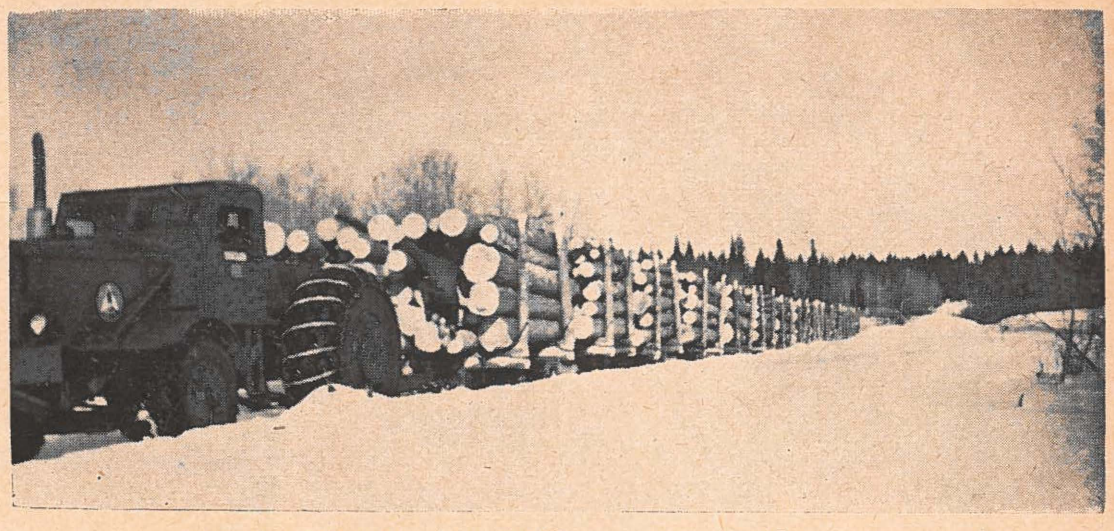


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Spruce Budworm

(Continued From Page 12)

tario, with special reference to the Thunder Bay region. Complementary to the system of surveys of forest insects, is a program of biological and ecological investigations, carried out at several locations, (e.g. Black Sturgeon Lake Field Station), and designed to provide a fundamental understanding of the interrelationships of the spruce budworm, its parasites and diseases, climate, and the forest. Such an understanding is indispensable to reduction, through remedial action, of the recurrent losses arising from forest insect outbreaks. Such investigations are necessarily of a long-term nature, but interim reports and interesting developments are frequently published in the "Bi-Monthly Progress Report" of the Forest Insect Investigations Unit, which is widely distributed and available without charge on request.

The mailing lists for the various bulletins, district reports, and printed publications referred to above, are revised periodically, and anyone desiring to be included on one or more of the lists should contact the Officer-in-Charge, Forest Insect Laboratory, Sault Ste. Marie.

EDITOR'S NOTE

To aid the valuable work done by the Forest Insect Rangers, men on timber operations can be of great help by sending samples of forest insects to the Forest Insect Laboratory.

Boxes for the forest insects may be secured from the Forest Insect Laboratory at Sault Ste. Marie, Ontario.

Collections are usually made by spreading a ground sheet or tarpaulin beneath the tree being sampled and then shaking the tree vigorously. Large trees may be jarred by striking the trunk with the back of an axe or the branches may be shaken by using a long pole.

It is necessary to place some of the foliage on which insects have been feeding in the boxes.

Spiders or ants should not be placed in the boxes as they will eat other insects.

Special Insect Rangers make trips through all districts and these men are always glad to give advice or instructions regarding collections.

"WHY WORRY?"

Most of us get grey before our years, but when the truth is known, there are actually only two things to worry about.

That is—whether you are rich or whether you are poor. If you are rich there is nothing to worry about. If you are poor there are only two things to worry about.

That is—whether you are in good health or whether you are in poor health. If you are in good health there is nothing to worry about. If you are in poor health there are only two things to worry about.

That is—whether you are going to live or whether you are going to die. If you are going to live you have nothing to worry about. If you are going to die you only have two things to worry about.

That is—whether you are going to Heaven or whether you are going to Hell. If you are going to Heaven you have nothing to worry about. If you are going to Hell you'll be so damn busy renewing old acquaintances you won't have time to worry.

So, why worry?—**Brompton "Broadcaster."**

"ONLY GOD CAN MAKE A TREE"

By JOYCE KILMER

Joyce Kilmer was right . . . BUT WE TOO CAN HELP . . . if we can keep control of forces which interfere with natural evolution in the woods. Then millions of acres of Ontario's timber land will be capable of growing to mature and merchantable size, and assure the forest industries of a steady flow of timber for generations to come. We are told this can be accomplished by the following . . .



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FOURTH it means efficient management, with improved methods of logging by the use of equipment specially designed to assist the logger in marketing the mature and merchantable timber at a profit.

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Ontario Paper Company Limited Wins Accident Prevention Contest

By D. B. CHANT

The Ontario Pulp and Paper Makers' Safety Association sponsors an annual Accident Prevention Contest in woods operations. The contest is based on the frequency of disabling injuries (expressed as the number of cases per 100,000 man-hours worked) and all member companies having woods operations involving more than 20,000 man-days worked in the year take part.

The amount of lost time caused by the injuries, the kind of injury, or the money cost for compensation and treatment do not enter into the contest picture at all. A crushed toe affects the contest standing exactly to the same extent as a fatal accident; each one is a disabling injury. That goes for strained backs, hernias, frostbites, horse-kicks and scalds with hot soup, or what-have-you. If it a disabling injury and the claim is accepted by the Workmen's Compensation Board, it counts against the score of the company concerned.

On that basis, the Heron Bay operations of the Ontario Paper Company ranked, for the full calendar year, 1948, ahead of all other member companies with exposure greater than 20,000 man-days; completing the year with a frequency figure of 43.0 disabling injuries per 100.00 man-days worked. The 1948 group average was 73.4 and the 1947 winning figure was 48.5. Heron Bay's accomplishment in 1948 was deserving of front ranking.

An appropriately-worded certificate suitably framed was presented to a representative of the winning company at the 34th Annual Meeting of members on April 4, 1949, at th King Edward Hotel, Toronto, with 218 members and guests present to applaud the presentation. Mr. Eugene E. Sparrow, Chairman of the Workmen's Compensation Board, made the actual presentation on behalf of this Association. J. E. Cantin, Safety Director of the Ontario Paper Company, accepted it for his firm. Sufficient copies of the certificate were supplied to cover the various camps, depots and headquarters of the operations where it is hoped they will serve to encourage continued effective accident control effort in the future as well as to commemorate the successful work already done.

Advertisers' News

Two new tools—the outgrowth of several years of experiment in land clearing—are now available for all users of "Caterpillar" Tractors.

The "Fleco" All-Purpose Root Rake, and "Fleco" Detachable Stumper, are designed for use with the Caterpillar Tractor equipped with standard dozer equipment.

These two tools are needed by, and are useful to the Timber Operator, the Road Contractor, and the one Tractor Operator. The contractor, with these two tools, in a matter of minutes can change from dirt moving to stump and tree removal, or to piling and grubbing.

There is no exceptional skill required to use the "Fleco" Root Rake or the "Fleco" Detachable Stumper. Any good operator in a matter of five to six hours can become as good as the best.

Further information may be obtained from the **Powell Equipment Company Limited.**

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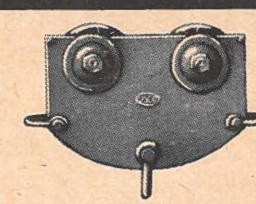




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SAFETY TIPS

(From the "Code for the Prevention of Accidents in Logging Operations" by the Quebec Pulp & Paper Safety Assn. Inc. Quebec-1947.)

BOATS AND CANOES

1. Boats and canoes which are damaged and therefore unsafe, shall not be left where men might use them. They must be repaired, destroyed, or taken away.
2. All gasoline boats with inboard engines shall be provided with at least one fire extinguisher, in good working order.
3. Boats with outboard motors must be provided with an old blanket, bucket of dry sand or a fire extinguisher.
4. Motor boats must always have sufficient life preservers to allow one for each member of the crew. When transporting men, there must be sufficient life preservers for all on board and, or, a seaworthy boat must be in tow, sufficiently large to take care of all passengers.
5. Boats must never be overloaded. The number of men to be allowed in any boat must conform with the Company regulations. Total capacity must be indicated clearly in paint on the boat.
6. Men must not smoke or use matches when filling a gasoline tank.
7. Boats shall be lined down dangerous rapids with one rope only.
8. All motor boats shall be equipped with a flashlight in good working order.
9. Paddles or oars shall be available in all motor boats for emergency use.

DRIVE

1. Walkways must be provided on the wings of all dams.
2. Foot bridges across small streams must be equipped with guard rails.
3. When breaking out rollways workmen shall work at the side, never in front or on top of the rollway.

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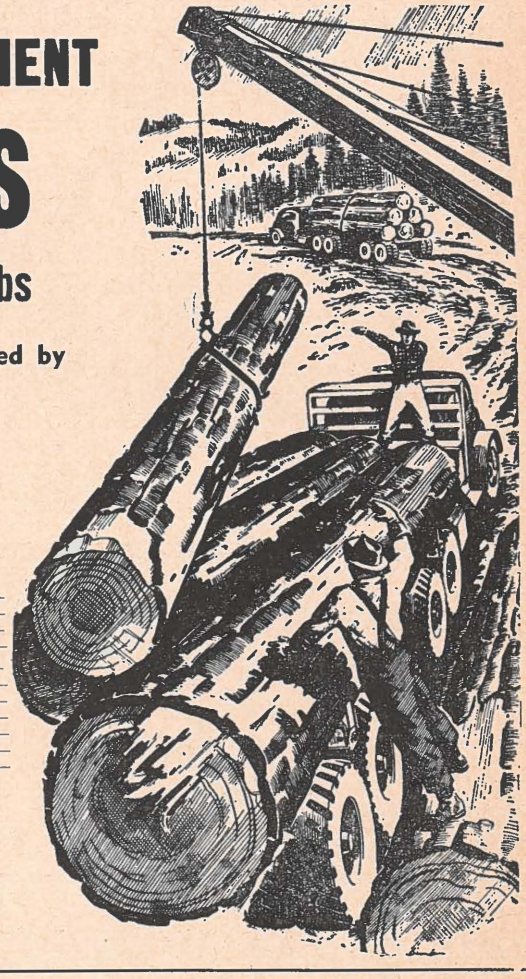
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Timber Cullers' News

Thunder Bay Branch

Another successful Annual Meeting of the Thunder Bay Branch of the Timber Cullers' Association was held in the New Legion Hall, Fort Willam, April 18th.

Officers were elected as follows:

Past President — W. H. Jarvis; President — K. Mason; Vice-President — Joe Hughes; Secretary — J. Denley; Executive — Sam Cowan, J. E. Peden, G. Lalonde, J. Horn, L. Mask, W. Reid.

The guest speaker was Mr. A. J. Auden, Woods Manager of the Port Arthur Division of the Abitibi Power & Paper Company, Limited and Vice-President of the Thunder Bay Timber Operators' Association. Mr. Auden made it clear that he was addressing the gathering as a private citizen and not in any official capacity and his address was so inspiring to the gathering that it was requested from the floor that copies be mimeographed and distributed to all members.

Western Region Branch

The Annual Meeting of the Western Region Branch of the Timber Cullers' Association was held in Kenora on April 23rd.

Officers elected at the meeting were:

President—John Anderson; Vice-President—Allan Shaw; Secretary—Art Clempson; Executive—P. Jarrow, P. Borup, D. G. Turner, J. McArthur, J. Wynd, A. K. McLay, A. McNevin, F. Nichol, F. M. Dodds, G. Vezina.

In keeping with the policy aimed at strengthening unity between the various branches of the Timber Cullers' Association, K. Mason, Sam Cowan, and J. R. Denley represented the Port Arthur Branch.

Northwestern Region Branch

The Annual Meeting of this branch was held in Sudbury on April 30th, but at the time of going to press no details were available of the officers elected.

Les Murphy, Fred Smith, and J. E. Peden represented the Thunder Bay Branch at this meeting.

Canadian Society of Forest Engineers News

Two successful meetings of the Northwestern Ontario Section, Canadian Society of Forest Engineers have been held in Port Arthur recently.

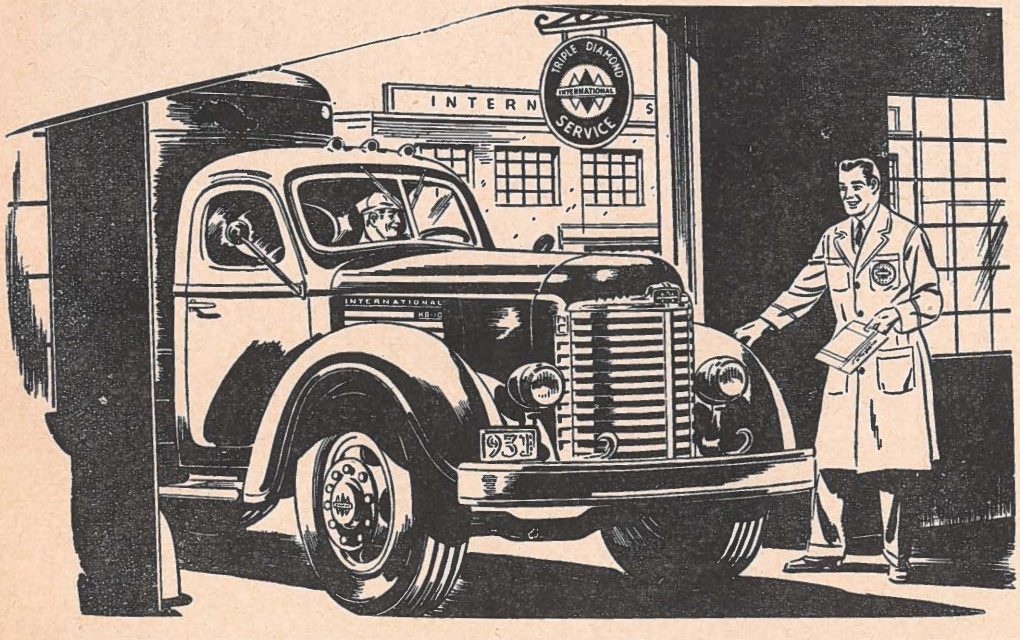
On April 8th, Mr. Keith Atcheson of Kenora, Regional Forester, Western Region and a member of the Section addressed the members on Forest Fire Protection.

A Canadian Forestry Association movie, "Then It Happened," was also shown.

Another successful meeting was held on May 4th and J. W. B. Sisam, Dean of the Faculty of Forestry, University of Toronto, Dr. M. L. Prebble of the Insect Laboratory at Sault Ste. Marie and Professor J. O. Wilhelm, Director of the Ontario Research Council addressed the members.

Mr. Paul Ward, Secretary of the Section reported that the membership is growing and all foresters in Northwestern Ontario are urged to join this Section.

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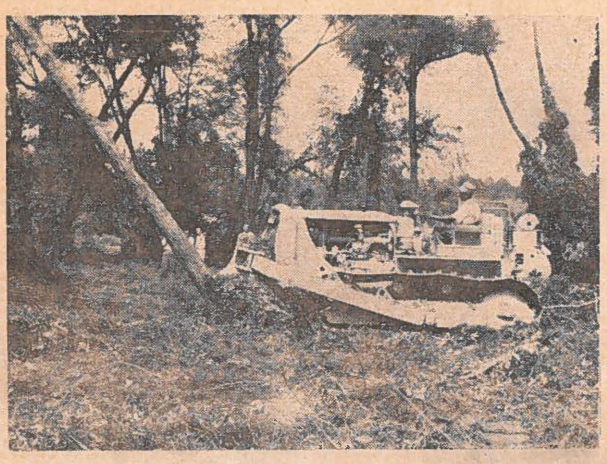
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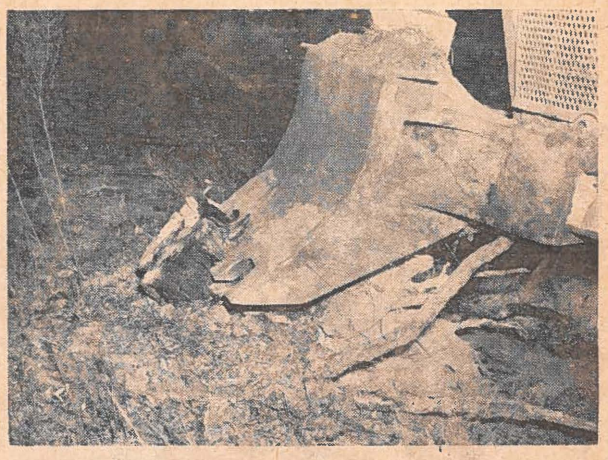
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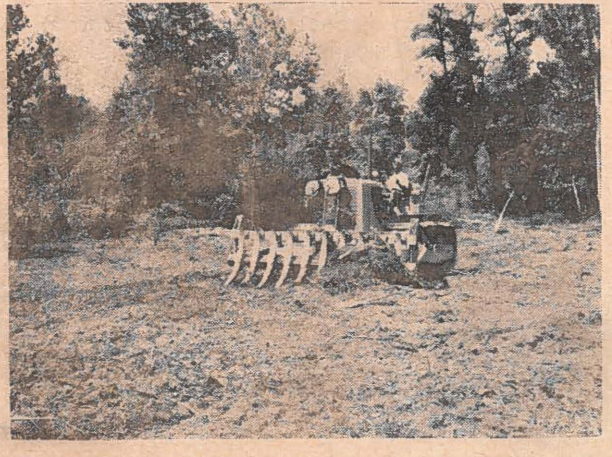
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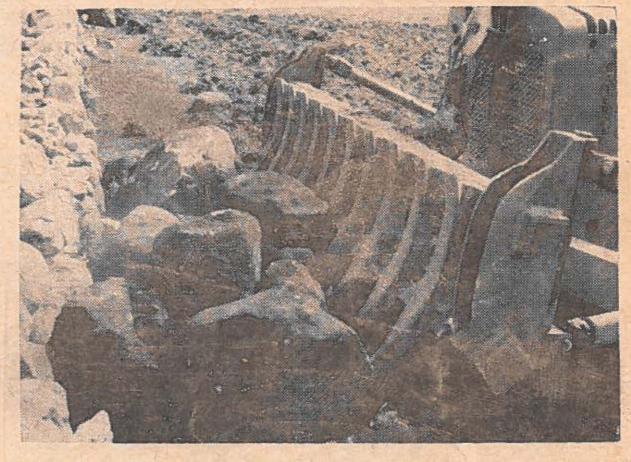
"Fleco Detachable Stumper" pushed this tree over and out of the cleared field in less than one minute. Averages a stump per minute in a stump-studded field.



Close-up of the "Fleco Stumper." The teeth bite into the stump lifting as well as pushing it out. The Stumper can be mounted or dismounted 15 minutes after the bull-dozer blade has been removed.



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