THUNDER BAY TIMBER OPERATORS ASSOCIATION

LOG BOOK

SEPTEMBER
OCTOBER
1951

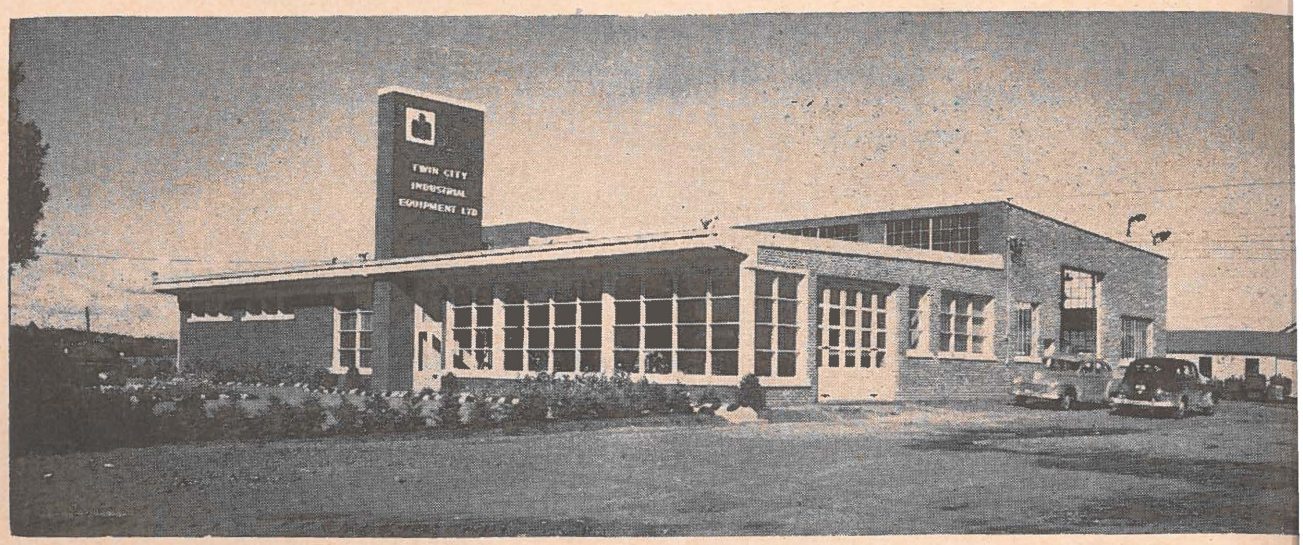
VOLUME 3 | PORT ARTHUR, ONTARIO | NO. 3

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THE THUNDER BAY TIMBER OPERATORS' ASSOCIATION

Edited by

T. S. JONES

...sident's Message

The demand for forest products of all kinds con- ...s to be strong and as operators, we are all anxious ...e this condition carry on into the future.

However, if we wish to maintain high production, ...o need to "keep on our toes" in the matter of ...s operating at reasonable cost. This past year ...een substantial increases in the cost of producing ...t products. There have been wage increases in ...ing with the general cost of living, there have ... further increases in the cost of machinery and ...pment, freight rates have gone up another notch, ...er dues have gone up, and many things have been ...ort supply. All of this combined has made it in- ...ingly difficult for the woods operator to keep his ... cost below the price the market is willing to pay.

Most of the increases in cost are those over which ...perator has no control. There remains then only ...ited field in which costs can be held or reduced. ...ary in this field is the development of new means ... methods of extracting timber.

During the past ten years a great deal of experi- ...ting has been done with mechanical logging. Much ...been accomplished but, in reality, the surface of ...hanical or improved operating has only been ...tched.

This note is especially directed to all of those men ...he field who are directly concerned in a practical ... with the cutting, hauling, loading, etc. of all for- ...products. If we keep this thought foremost in our ...ds as each phase of work is performed, and then ... some thought as to how that phase could be done ...er, cheaper and better, some rather startling re- ...s will ensue.

The final result could conceivably be a massive ...er combine which would travel through the forest ... the end product coming out of the production ... in its finished timber form. Or in the case of ...wood producers, the field of wood hogs or chip- ... consuming the whole tree might be part of the ...er. Perhaps the above sounds fantastic, but it is ... Pulpwood chippers in the woods are already in ... some parts of the U. S.

So we say to the men in the field, lets have your ...s — lets keep our thinking caps on and perhaps ... may play an important part in the future develop- ...t of newer and better ways of timber operating.

H. H. "Bert" STYFFE

FOREST PATHOLOGY IN ONTARIO

Dr. L. T. White, Officer-in-Charge of the Dominion Laboratory of Forest Pathology, 144 Front Street, Toronto, Ont., has kindly consented to contribute articles about Forest Pathology in Ontario to the **Log Book.**

The first of this series appears on **Page 6**. The co-operation of Dr. White in this instance is very much appreciated and the Editor suggests that readers of the **Log Book** pay special attention to these articles as they appear from time to time.

INCREASED WAGE RATES HIGH-LIGHT ANNUAL UNION NEGOTIATIONS

Nineteen companies in Ontario which have had union agreements with the Lumber & Sawmill Workers Unions, A. F. L. since 1946 negotiated with that organization in August according to the terms of the existing contract and the Ontario Labour Relations Act.

The new wage rates were effective September 1, and by this time readers of the **Log Book** will have had copies of the new schedules. The board and lodging rate remained the same at $1.75 per day. Leaving the board rates the same means that operators are absorbing the increased cost of providing board and lodging.

Other changes in the contract besides the wage rates were liberalization of the vacation plan, a union shop clause, increased allowances for walking and rid ing time and additional time off with pay for seven-day-a-week employees.

The Red Feather Flies Again



With the fall weather and the colouring in the forest turning red and gold comes the annual RED FEATHER campaigns of Community Chests and similar welfare organizations across the Dominion. Local needs are set forth in local programs and the logic of consolidating appeals for the support of community welfare activity is generally recognized.

In the Lakehead area the campaign starts October 1st and will run for three weeks. Mr. E. G. Pallister, Ass't Manager of the Provincial Paper Company is the general chairman of the Port Arthur campaign and T. S. Jones of the Thunder Bay Timber Operators' Association is again in charge of the woods canvass.

This year there are twelve agencies sponsored by the Community Chest. Of special interest to woodsworkers is the Salvation Army, the St Joseph's Manor, the John Howard Society. Other agencies are the Children's Aid Society, Victorian Order of Nurses, the Canadian National Institute of the Blind, St. John's Ambulance Council, the Boy Scouts and Girl Guides Associations, Navy League of Canada and the Thunder Bay Humane Society.

Last year, aided by volunteer work by camp foremen, clerks and union stewards, woodsworkers donated $3654.30 to the fund. Total receipts were $38,291.00. This year the objective is $39,000 and woods workers are asked again to contribute. Your donations will help men of the woods that need help from time to time.

BE GENEROUS ! Give and be glad you can do so !

MARKING OF STANDS FOR PARTIAL CUTTING ON THE OPERATIONS OF TH ONTARIO-MINNESOTA PULP AND PAPER COMPANY LIMITED

LAKE OF THE WOODS CONCESSION

By G. Cox, Concession Forester

Introduction

In order to obtain information on partial cutting, it was decided in 1948 to inaugurate experiments in marking certain stands of timber. Up to the present time, marking and partial cutting have been confined to certain specific situations (some of which will be described later). However, it is hoped that these experiments will supply us with the necessary knowledge, that when the need for more intensive forestry warrants this type of logging method, we will be prepared to conduct such logging on a sound basis.

In the following article I have tried to describe opportunities of application, systems and methods of marking, and marking tools. I have given also a brief outline of some marking we have done.

Opportunities For Marking

We have carried on marking and partial cutting in the following types of area:

1. Reserve Areas — There are large areas reserved from clear cutting by the Department of Lands and Forests. These include 500 and 300 foot strips around many lake shores and a 600 foot reserve strip on each side of the Trans-Canada and the Kenora-Fort Frances Highways. These areas contain many thousands of cords of valuable wood which can be used (to the advantage of both the Company and the public) if we mark and make partial cuttings.
2. Immature Areas — These areas are often very accessible and much valuable wood may be obtained by making thinnings.
3. Very Valuable Mature Areas — These mature areas may be maintained at their high value or may be increased in value by proper cutting practices - i. e., partial cutting so as to favour the more valuable species or products, and to encourage regeneration.

Marking System

The following are some if the rules we have endeavoured to follow:

1. As small a percentage of volume as is economically feasible is marked - usually from 25% - 30% in order to avoid windthrow. In exposed places little or none may be marked.
2. Valuable species are favoured although trees marked and removed must be those which can be used.
3. Trees to be reserved should have good crowns.
4. Proper spacing is attempted in the residual stand.
5. Diameter limit is rarely used.
6. Usable defective or degenerating trees are marked for removal.

Marking Method

Any size crew from 2 to 5 men may be used, but a 3-man crew has been found to be most practicable. The 3-man crew consists of one guide and talleyman and two markers. Depending upon the experience of the crew, the guide and talleyman may be in charge and give directions for marking, or the two markers may mark on their own.

The guide and talleyman is equipped with tally book, compass, and steel tape, so that trees may be tallied as marked; also that strips accurate as to direction, length and width, may be worked. This allows leyman to keep close record of the volume being marked.

The markers are equipped with marking t calipers. Trees to be removed are marked on t osite sides and at the base of the stump so tha supervision is possible during cutting. As t marked, they are calipered and called to the ta One marker works on each side of the talleym the steel tape as the dividing line.

Marking is done on adjacent strips, the the strip being varied according to the densit trees in the stand. However, width of strip is n accurately so that volume per acre may be det quickly.

Marking Tools

There are three types of tools which we ha These are described briefly below:

1. The marking axe. This is a very simple an tool although not economical in an extens king operation. It has the added disadvant if the blazed trees are not cut they are to infection. Our marking axes are light and equipped with a distinctive stamp back of the head.
2. Paint Sprayer. This is a modified hand oi gun. It is economical to use on an extens ject or in dense stands but has disadvan rising out of clogging, the amount of pai must be carried, and being somewhat dirty
3. The Powder Bat. This is a flat leather pou a screened hole on one side and a hand pouch is filled with a marking powder. ping the pouch sharply against the tree, a mark is left on it. This tool is less usefu mature branchy timber. It is fast and c use, but dirty. The powder mark is not as as paint, (except on the workman's cloth

Outline of Partial Cutting Done

Our first partial cutting was done by a c in 1948, in a 60-year old jackpine stand having derstory of spruce and balsam. Partial cutting w ned here because the stands were dense and it was hoped regeneration of spruce and balsa come in thereafter. Approximately 1000 cords pine were marked and removed using a she system. Two interesting points that came out job were:

1. The piecemakers resented very much the ed cutting and unless strictly supervised marked trees in intermittent fashion. their devices were to cut very wide roads fell marked trees into unmarked ones, legedly necessitating the felling of the u ones.
2. Great care must be taken in order to windfall in partially-cut stands. Due to that a higher percentage of trees were were marked, heavy windfall resulted, in the understory of spruce and balsam. derstory had grown up thickly with re poor root systems.

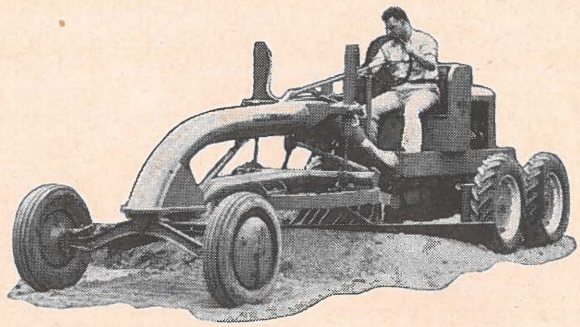
(Continued on Page 5)

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KING OF STANDS FOR PARTIAL CUTTING

(Continued from Page 4)

The following year it was decided to remove an nature stand of white pine in two cuttings — the d cut to take place after the openings from the ut had regenerated. About 800,000 F.B.M. were ed and at the time of writing, the first cut is near- ompletion. It is being done by a contractor and in table fashion.

In the Spring of 1950, a small quantity of fresh- oplar was needed by one of our mills. Due to the wet conditions of the bush roads, hauling was im- ble and it was decided to ask the Department of and Forests for approval to mark and cut a per- ge of the poplar in the 600-foot highway reserve. oval was obtained and the wood was landed on the way and hauled immediately. This operation wa ed out by a Company camp very satisfactorily. A of 1000 cords was cut. It should be noted that this a salvage operation and that the cutting did not act from the scenic value of the roadside value.

That same year, a 45-year old stand of black spruce e spruce, and jack-pine, very close to the Kenora- Frances Highway, was marked for thinning. Ap- imately 150 cords of spruce and 50 cords of jack- were marked for removal. The immediate reason marking was to provide a contractor (from immature ds) with additional wood that he could cut and haul he summer. The wood was not needed however, and a small amount was cut.

At the time of writing it is planned to mark a por- of a lakeshore reserve area for large white spruce m sticks. In this case, the trees are marked so that the Department of Lands and Forests has assurance that less than 1/3 of the volume will be removed per acre.

It is still too soon to have arrived at many definite conclusions regarding partial cutting and its results. However, this cutting practice has been brought before Company personnel and they have become somewhat acquainted with the problems involved.

(One of a series of articles by members of The Canadian Institute of Forestry, Northwestern Ontario Branch.)

FOREST INSECT COLLECTIONS INCREASE

The Forest Insect Laboratory at Sault Ste. Marie reports that "an exceptionally large number of collections was received at the Laboratory during July". In August more than 1700 collections were received bringing the total for the season up to August 31st to 6200 collections.

Woods employees are urged to take part in this important work. Send samples of insects found to the Forest Insect Laboratory, Sault Ste. Marie, Ontario.

MOOSE HUNTING ALLOWED FOR RESIDENTS OF ONTARIO ONLY

For the period November 15 to December 15, in that portion of Ontario north of the northernmost east-west line of the Canadian National Railway, from the Quebec boundary to the Manitoba boundary, an open season has been declared for moose. There is no open season for moose in the remainder of Ontario.

For the open season areas for deer consult the nearest Department of Lands and Forests office.

Forest Pathology In Ontario

By Dr. L. T. White

The forests of Ontario are confronted by three arch-enemies: fire, insects and disease. It is considered that adequate protection from these three agents of destruction is the first requirement in forest management. To this end, outstanding progress has been made in efforts to control forest fires and insect depredations. Tree diseases, however, are rarely sudden and spectacular; they work slowly and insidiously and ma be neglected until too late to prevent major losses. Yet losses from fire are less than losses from insects and disease. Indeed, it is estimated that the loss to the two major forest industries of Ontario, through disease alone, exceeds five millions of dollars annually.

Forest trees are subject to disease throughou their life span, but the relative importance of any dis ease or type of disease may vary with the age of the trees, Diseases that are of critical importance at one developmental stage may be of minor importance at another stage. For example, damping-off and root dis eases of seedlings cause mortality almost immediately after the seed germinates. If the seedling survives the first year or two, there is little possibility of these diseases causing further injury.

As the young tree continues to develop, and disease that attacks the leaves may bring about a complete defoliation. These foliage diseases, needle casts, leaf and needle rusts, etc., may be present throughout the life of the tree. In a young tree all leaves may be affected and in time the tree may be killed. The chance of mortality in an older tree where the is usually restricted to the lower branches and portion of foliage destroyed is insufficient to tree. Damage in the latter case amounts to a r in wood production because of reduced leaf s

Blister rust and stem cankers may cause girdling the tree and cutting off the channels which pass water and plant foods. These dise the most part, live in the tender green bar younger tree the girdling may encircle the ma and kill the tree; but in an older tree the ten is found only in the branches and tops. Canker are of greatest importance in young trees but to kill branches and tops of older trees.

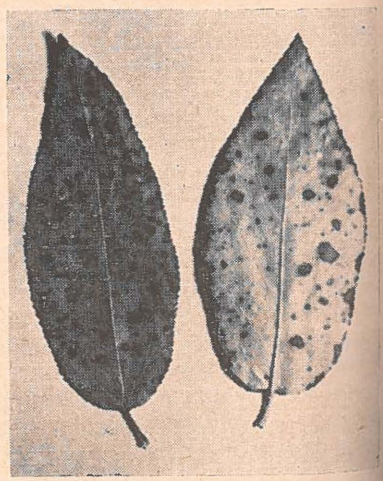
Trunk decays and butt rots develop slow are of minor importance in young trees but r iously limit the amount of sound and merc wood present in older trees.

Other diseases, such as the systemic dis wilts, may be of importance throughout the lif

(Continued on Page 7)



Needle rust of a hard pine. Spore-producing bodies of t appear on many needles. This rust occasionally becomes and causes severe defoliation.

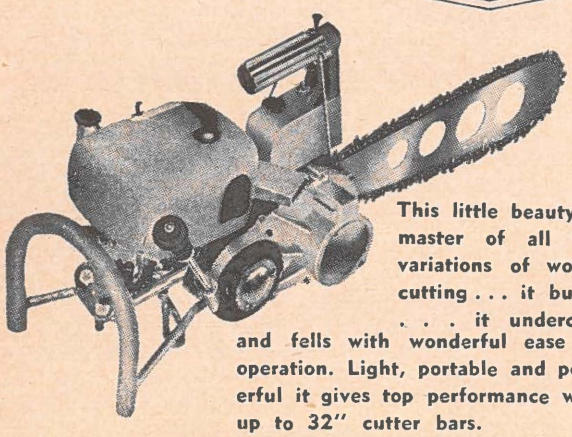


Leaves of poplar badly spotted through fungus attack. The fungus responsible for this spotting on native poplars may also cause cankers and dieback of certain imported and hybrid poplars.

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ST PATHOLOGY IN ONTARIO

(Continued from Page 6)

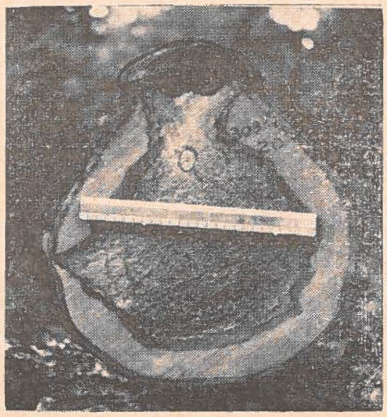
s they attack trees of all ages.

Direct control of disease in the forest is limited se of the large areas involved and the long rotat- ring which a forest crop is produced. In agricul- relatively small areas devoted to a single crop and rotations permit direct control of diseases by ng, dusting or altering the crop to more desirable



k canker on a young poplar tree. This canker is caused by a fungus usually girdles and kills the tree. This vigorous tree is making an pt to combat the disease and close the canker by the production callus layer.

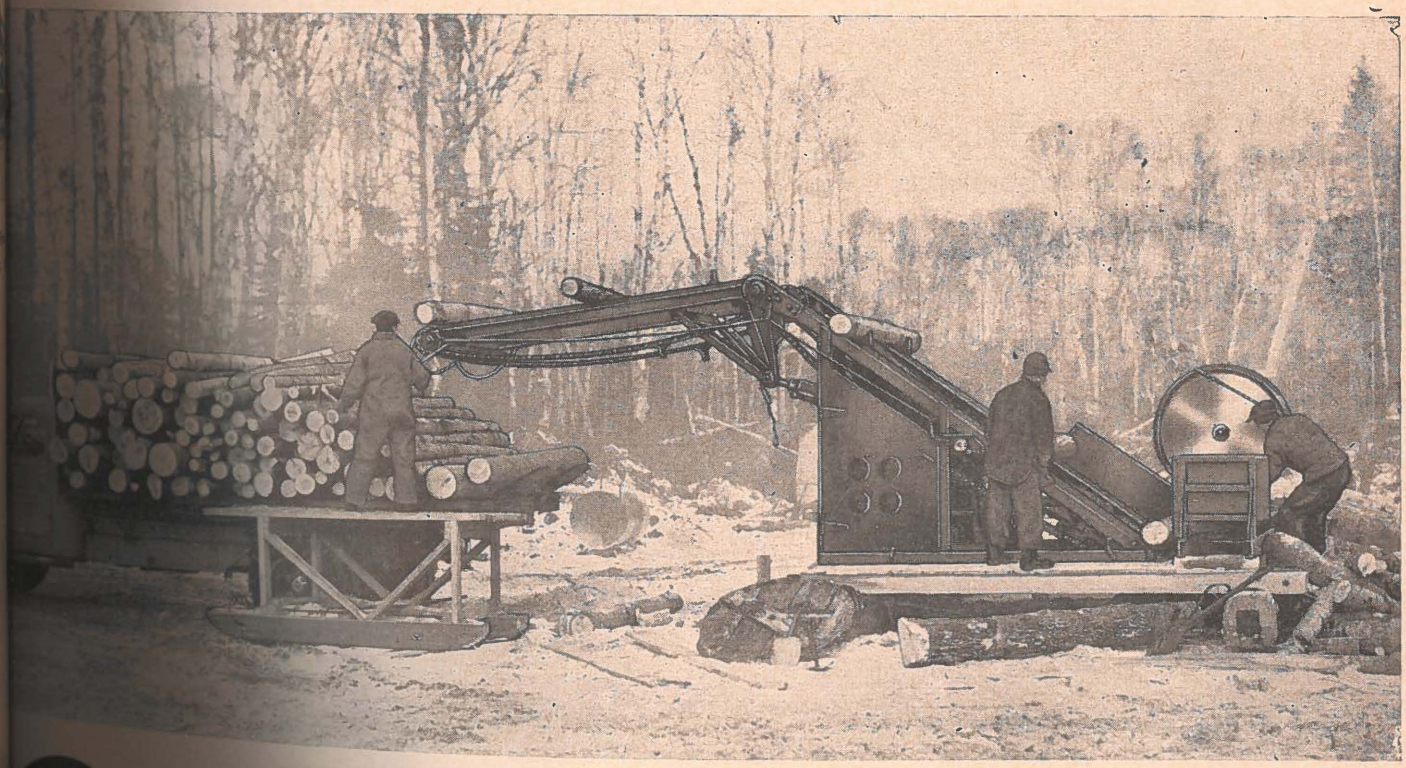
plants. In forestry, however, the individual tree in a large forested area cannot be considered as other than a commodity of low value, too low in most instances to warrant direct control measures. The forester, then, must look for other tools in his fight to avoid excessive losses. Pathological studies may point the way to manipulations of managed forests which will prevent losses or reduce them to a minimum.



Trunk rot of poplar caused by a wood rot, FOMES IGNIARIUS. This fungus is responsible for about 65 per cent of the trunk rot in poplar. The spore-producing conk appears on the upper side of the section.

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Much Improvement Work Undertaken This Sum

In addition to the normal work of producing pulpwood, (peeled and rough), logs, ties, poles, lumber, etc., the cruising, mapping jobs and general maintenance of all camps, dams, roads, etc., this past spring and summer, a tremendous program of improvement work h been carried on in Northwestern Ontario in preparation for continued woods operations this fall and in years to come.

The **Log Book** made a brief spot-check of wc carried out by a number of companies in Northwestern Ontario and reports improvements as follows:

Abitibi Power & Paper Co., Ltd., Port Arthur Division

Lake Nipigon District:

6 new panel type camps.
Central Butcher Shop, garage addition and Power House at Auden Depot.
12 miles of new road cut, graded and gravelled.
1 mile of old road gravelled.
Extensive repairs made on the 723 of dam and wing walls at 3rd rapids on Ombabika River including land clearing, side piers and glance booming.

Provincial District:

1 new panel type camp.
5 miles of camp access and trailer haul road cut, graded and gravelled.
9 miles of trailer haul road cut and graded.
Extensive repairs made to the west wing of the WOLF LAKE DAM which broke, leaving a 60 foot gap, during the early spring floods.

Western District:

4 new camps built — 2 panel type.
A central laundry constructed at Linko Siding.
A new landing camp constructed at Umfreville.
4 miles of road cut and graded.
11 miles of road gravelled.

Nipigon River:

2 new panel type drive camps constructed at Pin Dam and Virgin Falls.
General repairs were made on Nipigon River improvements and considerable improvement work was made necessary by the completion and flooding of the new Pine Portage Dam. Pier construction and booming was necessitated by the formation of numerous bays in the flooded area between Pine Portage and Virgin Falls.

Port Arthur — Current River Warehouse

Additional storage and warehousing space has been added and mechanical equipment installed to improve facilities.

Abitibi Power & Paper Co., Ltd., Sault Division, Regan Area:

7.5 miles all-weather road.
2.0 miles truck portage road.
8.0 miles rubber-tyred wagon road.
200 towing booms for White Lake.
2 100-man panel camps.

Brompton Pulp and Paper Company Limite

24 miles All weather truck roads.
7 New camps.
1 Dam.

Dryden Paper Company Limited

4 New camps.
1 New landing camp.
New buildings at Depot camp at Dinor
26 miles of secondary roads.
15 miles of all weather gravel truck ro

Great Lakes Paper Company Limited

Black Sturgeon Area:

5 miles of road bulldozed last year, gra
8-10 miles of gravel truck roads built.
River improvements, a new dam and a built.
4 new camps constructed.

Martin Area:

9 miles of all-weother truck road.

Valora Area:

9 miles of secondary gravel truck road

Hammermill Paper Company Limited — Yc

7 miles of all-weather road.

LongLac Pulp and Paper Company Limited:

All-weather roads ditched, gravelled —
Bridge over Kenogami River — 200 fe
New camps — 3 old camps moved and made. 1 new 50-men camp for LongLa
Sawmill — steam powered bandmill, c to be completed in 1952.
Phone line extension — 16 miles meta 24 miles grou circuit.
Drive improvements have consisted o ening holding grounds, replacing bo ation of a sorting gap to separate sa pulpwood.

(Continued on Page 9)



Remodelled and enlarged Office Building of the Co Company at Heron Bay, Ontario.

H IMPROVEMENT WORK UNDERTAKEN SUMMER

(Continued from Page 8)

aygo Timber Company Limited

nce and Jarvis Location:

This area, comprising some 12,000 acres, about 25 miles west of Port Arthur, reached by car on Highway 61 has been selected as a managed forest, and this year we are constructing 6½ miles of all-weather gravel road into the limit, constructing a pole line for Hydro power to the lakeshore landings and camp site and have planted 20,000 spruce seedlings.

artin and Mildred Township Operations:

6 miles of all-weather road.

Nucleus of new town site well under way. Will eventually be five or more houses, bunk houses, cookery, garage, work shops. Office and warehouses all served by central heat and water and sewage systems.

igon Lake Timber Company Limited:

6 miles of all-weather road at Kowkash operations.

New camp complete in every detail with electric lights, et., at Cavell area.

ar Styffe Limited:

1 new camp at Silver Islet.
1 new camp at Arrow River.
4 miles of new all-weather road.
Improvements on existing roads and river improvements on Pine, Cloud and Regan Rivers.

As stated above, this report is the result of a spot-check made. If the improvement work of all companies operating in Northwestern Ontario were reported, it would take too much space in this booklet, but readers can readily see that improvement work has been going on which will help the woods industry grow on a more permanent basis in the years to come.

THE FORESTER TO-DAY SHOULD BE A LOGGER AND A ROAD BUILDER

The editorial in the August issue of the Canadian Pulp and Paper Magazine featured a review of the carrear of Dr. C. A. Schenck, a distinguished German Forestes who recently made a farewell tour of the United States and Canada.

At a testimonial dinner Dr. Schenck declared "The Forester today should be a logger and road-builder".

It was the eminent teacher's way of saying that the forester should, in the first place, be practical and no occupant of an ivory tower; that he should concern himself with the details of the actual removal of the forest crop in order that he might better carry out his job of crop care and replenishment. And he should above all, advocate and practice the policy of fire prevention and control in order that his crops should not be destroyed.

Thus Dr. Schenck strongly urged that logging roads made for the removal of the virgin crop should be maintained as a means of giving protective access to the next forest, ainly as a fire-fighting facility.



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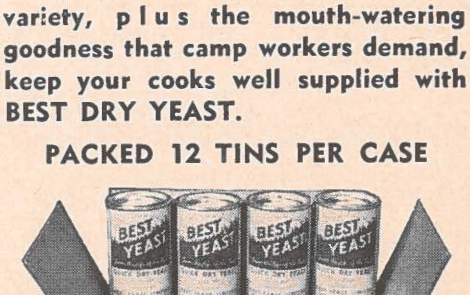
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SAFETY MEETING HELD AT LONG LAC

The Northwestern Ontario (Woods) Branch, Ontario Pulp and Paper Makers' Safety Association held a quarterly meeting with the LongLac Pulp and Paper Company Limited as the host company.

In the morning Company representatives attended a limbing demonstration in the woods near Camp 40. A LongLac cutter, Nick Bond, demonstrated his method of cutting and limbing and briefly explained to representatives his reasons. K. Eoll, Branch Secretary, took moving pictures of the demonstration and it is planned to develop a movie which will be of use to member Companies as a training and safety film.

Following lunch, the meeting convened in the Long Lac recreation room and included on the program were:

A talk by Nick Bond giving "A Cutter's Views on Safe Practices."

Mr. D. B. Chant presented "Report on Analysis of Axe Injuries in Pulpwood Logging". (Class II).

(The paper is reprinted in this SAFETY SECTION.)

Mr. L. M. Lein presented a paper entitled "A Logging Superintendent Looks at Safety".

Mr. T. S. Jones reported the 153 safety signs were purchased through the Thunder Bay Timber Members Association and are in camps throughout Northwestern Ontario. In addition some companies are having a similar type of safety sign made and it is estimated that over 200 camps will have this **CONSTANT DAILY REMINDER TO ALL EMPLOYEES TO WORK SAFELY.**

The meeting cloesd with a dinner tendered to representatives by the LongLac Pulp and Paper Company Limited with Mr. A. F. Buell, Woods Manager, acting as host.

—o—

REPORT ON ANALYSIS OF AXE INJURIES IN PULPWOOD LOGGING

By D. B. Chant, Secretary-Engineer, Ontario Pulp and Paper Makers Safety Association

In woods operations of member companies during the 10-year period, 1941 through 1950, axe wounds made up 22.7% of the total number of disabling injuries, or somewhat more than one case in five, while for the calendar year 1950 alone, they represent 25.7% of the total.

It would seem, therefore, that efforts to reduce the number of axe cuts, if successful, would have a profound beneficial effect on the overall frequency of disabling work injuries in pulpwood logging operations. No other type of injury is so frequently the cause of disability among woods employees and, while the average severity of axe wounds is probably somewhat lower than that of other kinds of injuries in the woods, many of them are quite serious and in the aggregate they amount to an imposing sum of human misery, lost earnings and interference with production.

As a possible basis for intelligent planning of measures aimed at preventing axe wounds, the following data has been tabulated from this Association's records covering the pulpwood logging seasons of 1949/50 and 1950/51 in cluding only those cases of injury due to the use (or misuse) of axes which resulted in disability for which the injured workman compensation.

The work of compilation has been careful but it should be observed here that its accuracy erned by that of the details given in the emplo ports covering the individual cases (W.C.B. F since the basic information was secured fr source.

(See Table 1, Opposite Page.)

As should be expected from the nature of and the tool, it is apparent that about 3 out o wounds affect the lower limb below the knee, w than one-half of the total injuries being suff the ankles, feet and toes, and a further one- volving the knees or shins of workmen.

Fingers and thumbs were injured by axe less often than were toes but, possibly due to comparable protection, amputations of the form ly outnumbered the lost toes.

So much for the injuries themselves. An has been made to learn something of the way these were incurred by examining the sort of ing done at the time of the injury, again relyin original reports for the necessary information. sult of that research is summarized below:

Table 2. Work Being Done

Limbing, Topping or Knotting	6
Under-cutting, Felling	1
Clearing brush or small trees	
Chopping stumps, roots, windfalls	
Loosening frozen logs or piles for loading	
Splitting fuel wood or kindling	
Pointing stakes, pickets, etc. in piling	
Shaping skids, booms, stringers, etc.	
Carrying axe	
Falling on axe lying on ground	
Using axe to drag wood	
Sharpening or hanging axes	
Blazing roads or trails	
Miscellaneous	

From the above it seems clear that axe occur with greater or less frequency in practic type of work in which the tool is used. Lacki spective amounts of man-hours expended in ous kinds of work, it is impracticable to a establish the relative degrees of hazard as be sort of axe-work and another. The important p ever, would appear to be that the common a be recognized as a dangerous implement, un led with skill and good judgement. It is des intended for cutting and is incapable of with respect to what it cuts. The one sure wa axe-cuts is to see to it that the cutting edge come in contact with any part of the user's that of a fellow-workman. The record fails

ETEWS

e instance of an axe making an unprovoked at- n a man of its own volition. In every case, the of events leading up to the injury was set in mot- the injured man or another person working near-

ven after making due allowance for poor and un- footing, unfavorable weather, wet mitts, icy logs, mproperly sharpened or fitted, and various other ent factors, it still seems clear that fully 90 per f the axe injuries came about because of faulty ng of the tool, the use of unnecessary force, im- placing of the feet or some similar hazardous ure on the part of the user. The vast majority reports contain some such expression as "axe ed ", "missed stroke", "handle turned in hands", rebounded", "axe passed completely through limb excessive force", "axe deflected by twig", and in describing the events leading to the injury.

A few odd cases may bear mention. For example, of the unfortunate chap who, while carrying his nder his arm on the way back from work, at- ed to put on his jacket and nearly severed his r vein. Another tossed his axe aside after making nder-cut and, while bent over in the act of saw- ost his balance and sat down heavily on the up- d blade with disastrous consequences to his pants his person. A falling tree landed on the handle of worker's axe sending the weapon flying through ir like a well-aimed tomahawk to score a direct n the unsuspecting victim's head. Pushing with xe to make a tree fall in the desired direction, cutter put so much "oomph" into the operation he slipped and fell flat on his face, the axe drop- several feet onto his outstretched hand, clipping finger and part of another. It would probably be o assume that none of these fellows saw anything y in the occurrence which put him out of action time, however humorous they may appear to oth-

If some type of protective covering could be dev- ed for the ankles and feet and all users of axes d be induced to wear it, approximately one-half of toll of axe injuries might be avoided. Likewise, worthwhile savings would result if every one us- an axe would remember, and take the trouble, t his strokes in such a manner as to carry the head he axe **AWAY** from his feet rather than toward . Even if only half of the cutters did this half of time, there would be many fewer axe wounds. But thing is done along one line or the other, axe in- s will continue to occupy the top spot as produc- of disabled woodsmen and compensation claims in pulpwood logging operations of this Province.

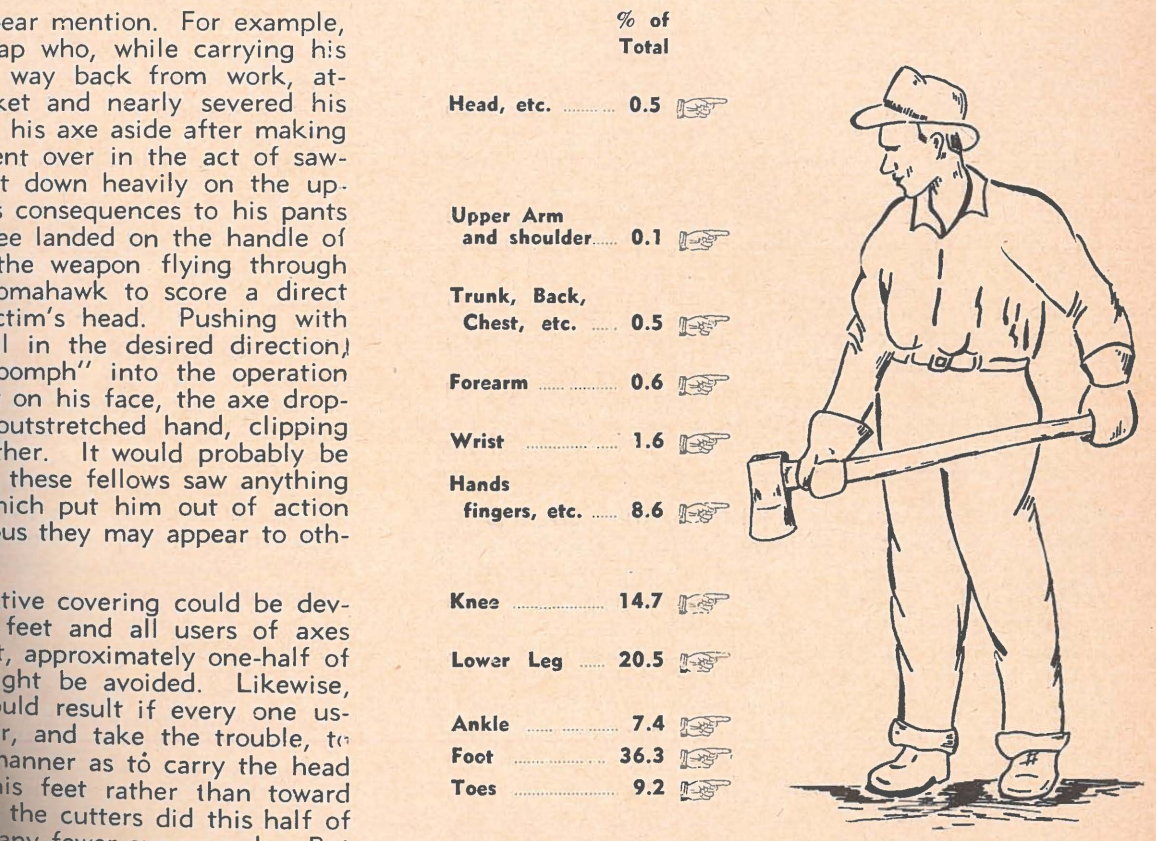
HOW TO AVOID SOME TAXES

Don't smoke.
Don't drink alcohol.
Don't drink soft drinks.
Don't use gasoline.
Don't buy a cook stove.
Don't buy a refrigerator.
Don't live.
Don't die.

Table 1. Part of Body Injured

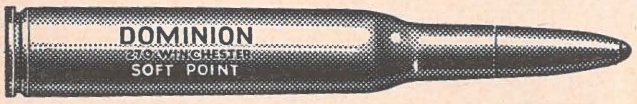
	Cases	%
Toes (including 2 amputations)	103	9.2
Foot (below ankle joint)	406	36.3
Ankle	83	7.4
Lower Leg (between knee and ankle)	230	20.5
Knee	165	14.7
	987	88.1
Hand, fingers or thumb (including 13 digital amputations)	96	8.6
Wrist	17	1.6
Forearm, including elbow	7	0.6
Upper arm or shoulder	2	0.1
Head or face	6	0.5
Other (neck, back, chest)	5	0.5
	1120	100

THE DANGER POINTS



Make sure that the Camp Safety Boards are kept up-to-date. Clerks are requested to send in camp's best record, (number of days without lost-time accident) so that readers will know the score.

FOR A COMPLETE LINE OF GUNS AND AMMUNITION . . .



MARSHALL-WELLS



IT'S OPEN SEASON ON QUALITY HUNTING NEEDS !
The great outdoors is beckoning you — and MARSHALL - WELLS Sports Department is at your service, with equipment that ensures a successful hunting trip !
SHOP MARSHALL - WELLS FIRST and SAVE !

A High School Forestry Program in Northwestern Ontario

By W. S. Moore

During the past school year a Forestry course was initiated in the Dryden High School. This course, the first of its kind in Ontario, was the result of a co-operative effort between the local school board and staff and the Department of Lands and Forests of Ontario to put across in the schools an understanding of the value and proper management of our vast forest heritage, which plays so important an economic role in this part of the Province. In this undertaking they were assisted in various ways by the Dryden Paper Company Limited.

The idea for such a course in the High School originated with the chairman of the local school board who foresaw the desireability of Forestry education for the younger people of the District. His idea was sold to the Department of Lands and Forests, their help enlisted , and permission to go ahead obtained from the Department of Education.

The course of study was set up by the Kenora District Forester to teach the basic fundamentals of Forestry over a two year period. Sound management, especially in the woodlots, protection, conservation and the job industry and the government are doing are stressed to impart a general understanding of sound forest practises. The lectures cover a wide range of subjects, from the meaning of the terms "Forestry" and "Sustained Yield", through a description of the forest itself — tree associations, soils, value of the forest in preventing erosion, its effect on climate, growth, etc., to the more advanced lessons on restocking, artificial reforestation, and the parts played by fire, insects and disease.

The second year course, which will begin in September deals with the more practical and advanced aspects, such as estimating timber, the various wood products, how much to cut, cutting methods, kinds of forests, tending a forest and finally logging methods.

Throughout the course maximum use is made of visual aids to training, such as films on methods and use of equipment, as well as field trips to actually see the "Woods in Action". In addition, several of the texts which have been specially prepared for such a job and such an audience are used. They are: Practical Woodlot Management, Forest Trees of Ontario, The Farm Woodlot, Forest Tree Planting, etc. A steering and advisory committee including members f school board, faculty, and Foresters from the Paper Co. Ltd. was set up to help the De representative in any way possible. Several of this committee were held to iron out deta ministration, to reach agreement on proced to plan out future field trips.

An integral part of the course is actua the field on the High School woodlot. This comprises an 80 acre tract donated by Dryd Co. Limited, where the various lessons learn the course of study can be applied and obser

Prior to turning this woodlot over to School all the forest data was gathered on a management program could be worked out. step in this program, which was carried out year was to plant up one of the cleared areas. ents under supervision of the personnel above set in approximately five thousand red pine trees. It is planned that thinning opera be carried out and permanent sample plots e to actually show the value of proper manageme plans will be realized in time, with succeedi of students able to actually see and measure ress made.

It is rather difficult to assess the resu since the program is just in it infancy. H good deal of interet has been aroused throu Department of Lands and Forests as well a partment of Education. Over fifty students the first year course and they established a which in itself is a worthwhile achievement that the job of education in protection, co and industrial relations has been put across will do the most good, with the young. It be seen whether the enthusiasm engendered will carry on in the future and make the cou cess for all the years to come.

(Editor's Note: There are other communities in N Ontario where a program as described above would ial. Co-operation between the Department of Educa Department of Lands and Forests and local wood companies will be of benefit to students.)

—o—

More than one-third of Canada is covered —Quick Can

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NADIAN FORESTRY ASSOCIATION LMS HELP FIRE FIGHTING TRAINING

Fire fims dealing with Forest Fire Prevention and servation were loaned by the **Canadian Forestry As-iation of Ontario** to the **Thunder Bay Timber Oper-rs' Association.** The films shown in many camps dur-the summer months were:

"Common Errors in Fire Fighting"
"Trees For Tomorrow"
"Look To The Forests"
"To-morrow's Timber"
"Then It Happened"

Among the companies that showed the films in ir camps was the Northern Paper Mills Limited. Here's a letter from the Logging Superintendent:

NORTHERN PAPER MILLS LIMITED
HANSEN, ONTARIO

September 7th, 1951

Mr. T. S. Jones,
Thunder Bay Timber Operators' Association,
Room 3, Woolworth Block,
Port Arthur, Ontario.

Dear Tommy:

A short time ago we had a slash fire, which while serious enough, could have been infinitely worse.

With the slash and wind conditions present, our crew did a terrific job in stopping the fire at 125 acres.

We attribute a good deal of their effectiveness to the visual training received from the educational films distributed by your office this summer.

Yours very truly,
Signed: NORTHERN PAPER MILLS LIMITED
D. G. Lambrecht.
Logging Superintendent

Thanks **Canadian Forestry Association of Ontario** your co-operation in loaning us the films.

ATIONAL FIRE PREVENTION WEEK CTOBER 7 — 13

In communities across Canada, fire departments ll be making city-wide inspections to make sure that ery possible fire hazard is corrected. Intensive cam-igns in the schools to encourage young Canadians to lp prevent fire at home and at school will be under-y.

HOW ABOUT YOUR CAMP?

Use this National Fire Prevention Week to make thorough check of the hazards, fire equipment, fire ders, etc., in each camp. A complete inspection at this time followed up by routine check and care on the part of all employees will pay off with NO FIRES.

DON'T SLIP UP ON THIS — DO IT!

(May we suggest that you consider the adoption of the NYLUND SPARK ARRESTER for all camp chimneys. If you haven't a blue print of this, ask the EDITOR of this booklet for a copy.)

IN THE DAZE OF PAUL BUNYAN — KING OF THE LUMBERJACKS
(TM Reg. Pat. Office)



PAUL BUNYAN'S CAMP CREW FACED THE SAME ORDEAL EVERY NIGHT. "CANTHOOK" McINTOSH KEPT THEM AWAKE TRYING TO DECIDE WHETHER HE HAD WHITE BRITCHES WITH BLACK CHECKS, OR BLACK BRITCHES WITH WHITE CHECKS.

T. B. T. C. A.

PREV-FIRE GRAM

COMMUNICATIONS TO ALL NORTHWESTERN ONTARIO TIMBERLAND AREAS

CLA
OF
SERVI
URGE

TO ALL WOODS PERSONNEL

LESS THAN ONE MONTH TO GO STOP AN ALL TIME LOW FIRE RECORD FOR NORTH ERN ONTARIO MAY YET BE ESTABLISHED STOP RAIN AND WEATHER GREATLY RESPONSIBLE BU HELP OF HONOURARY FIRE WARDENS WOODS SUPERVISORY PERSONNEL AND TRAINING WOOD LOYEES IN PREVENTING AND GETTING TO FIRES RAPIDLY ALSO RESPONSIBLE STOP

IN THIS LAST PERIOD BEFORE THE SNOW COMES LETS KEEP UP OUR F I R E PREVE EFFORTS STOP NEW EMPLOYEES ARE ENTERING WOODS EMPLOYMENT STOP BE SURE THEY UNDER AND OBEY THE WOODS WORKERS RULES FOR FIRE PREVENTION STOP

YOURS FOR
NO FIRES STARTED BY WOODS EMPLOYEES
THUNDER BAY TIMBER OPERATORS ASSOC

Recap of Fires up to September 1

	Sioux Lookout	Kenora	Fort Frances	Port Arthur	Geraldton	Kapuskasing	Chapleau
SETTLERS	6	8	—	5	—	2	—
CAMPERS	12	34	11	6	4	2	1
LOGGING OPERATIONS	5	1	1	1	1	4	2
ROAD CONSTRUCTION	1	3	1	—	1	1	—
MINING	2	—	—	—	—	—	—
SMOKERS	1	13	6	6	3	4	1
RAILWAYS	2	18	1	15	4	5	2
LIGHTNING	28	18	2	15	9	5	9
PROSPECTORS	—	—	—	—	—	—	—
INCENDIARY	1	2	—	—	—	—	—
MISC.	4	6	1	—	3	—	1
UNKNOWN	1	1	—	—	—	—	—
TOTAL	63	104	23	48	25	23	16
APPROXIMATE ACRES	757	771	58	754	90	626	73

BOMBARDIER SNOWMOBILE . . . .

The Answer to Your Winter Transportation Problems

Powered by Chrysler Engines — These sturdy vehicles are "Worth Their Weight in Gold" to Woods Operators, Mining Companies etc.

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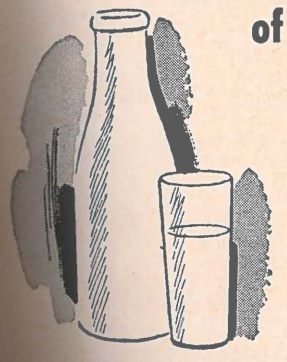
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Why Borden's Trumilk is the Ideal Milk for your Camp

1. All the food value of fresh whole milk!



TRUMILK is a powdered whole milk which includes *all* the cream, all the protein and other nutritional value of finest fresh, whole fluid milk!

2. Costs as low as 55¢ a gallon!



Yes, here's delicious whole milk, ready to use *anytime* for as low as 55c a gallon . . . a real saving on your milk bill, especially where large quantities are used. Further saving: there's *no waste* . . . you make up *only* as much as you need *when* you need it!

3. Double-vacuum-sealed for camp use!



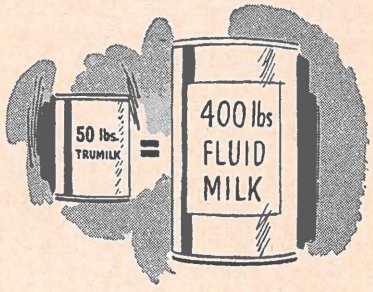
Heavily protected with an outer plywood drum, the inner vacuum-sealed metal container protects freshness of Trumilk *indefinitely!* Also has inner friction-top cover to protect contents after seal is broken.

4. For drinking, cooking and every other milk use!



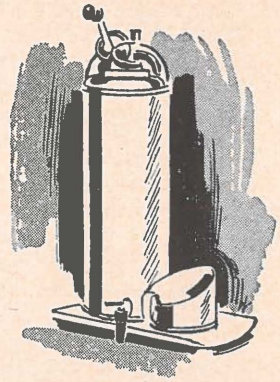
Just add TRUMILK to cold water, mix, and in a jiffy, you have milk ready for drinking. TRUMILK is excellent, too, in soups, puddings, and all baked goods. Can be mixed dry with dry ingredients for cooking convenience.

5. Easy handling—less weight—no freezing!



TRUMILK (whole milk powder) is only ⅛ the weight of fluid milk. This cuts transportation costs to the minimum ...makes handling easier. Under seal, TRUMILK keeps perfectly in summer heat or below zero weather . . . indefinitely.

6. Fluid whole milk in a jiffy!



Now you can mix TRUMILK in any quantity with Borden's new effort-saving hand-mixer. It's a 3-in-1 mixer: (1) mixes (2) stores (3) dispenses. Mixers available *at cost* in 5 gal. and 2½ gal. capacity. Order from your nearest distributor.

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FORT WILLIAM, ONTARIO

CHISEL TOOTH CIRCULAR SAWS STANDARD SOLID TOOTH CIRCULAR S

BAND SAWS PLANER KNIVES,

Barking of Wood

by T. N. McLenaghen

In order to make pulp of good quality it is necessary to remove the bark from all the wood entering any newsprint or pulp manufacturing plant. This bark has little or no fibre value and consumes chemicals and steam in cooking as well as taking up valuable space, with no return. Specks of bark make dirty pulp and paper and it is easier to remove dirt from the wood than remove it from the pulp. Two principal types of equipment are used; barking drums and knife barkers. Due to the big wood loss encountered with knife barkers they are used only where absolute cleanliness of the wood is essential. The barking drums are by far the predominant method in use today., and almost 100% in use in Northwestern Ontario.

The continuous system is best adapted to present day conditions and is the most used. In this system, the wood is fed automatically into one end of the barking drum where is is tumbled about and automatically discharged at the other end. Barking drums may vary in size and construction detail but generally speaking they all work on the same principle. A 12' diameter, 45' length is a size very often encountered these days. The logs are conveyed to the upper end of the drum and are slid down an intake chute into the drum in which they are tumbled about. This tumbling rubs off the bark, which passes out through narrow slots between the structural sections of which the drum is built; the logs being retained in the drum until they work their way out at the discharge end.

The disadvantages of this system are that the ends of the logs become more or less broomed and particles of dirt are often driven into the ends of the logs. These particles later appear in the paper and are a source of annoyance. Also, logs may remain in the drum for a considerable time and may finally be discharged badly slivered, causing a loss of wood.

When logs of wood not completely barked are discharged from the drum, they are returned to the intake end of the drum by means of a special return conveyor The principal advantage of this system is that the bark is quickly and cheaply removed from the logs without any great waste of wood, as is the case with the various types of knife barkers.

The usual method to aid in removal of the bark from the logs and in the cleaning of the woods is to run the drum open and use sprays at both ends of the drum.

Variations in the capacity of barking drums are due to the following conditions:

(a) The length of time the wood has be water.

(b) The season in which the wood is taken water.

(c) Whether the logs were driven in strea rapids or quiet water.

(d) Whether the wood is allowed to stan after being hauled from the water o directly through the slasher to the d

The treatment the wood gets in the wat factor; the more barking it gets in shooting ra the less work for the barkers.

To obtain the best results from any typ ing drum, namely, the greatest amount of c with the least number of broomed ends, should be run half full of wood. Wood barked having smooth interiors will have less broomi ends of logs than when there is a projectio kind on the inside, regardless of whether th ions be angles or corrugated sections.

A fairly new development in barkers, hydraulic barking, has been developed on Coast. In this method the logs are barked s the aid of a very high pressure stream of wa tears the bark off the logs. This high pres stream is directed against the logs by an op has proven very successful on the coast whe a very large size exist. Its limitation is that to be barked singly and that is the big disad allowing its adoption in this part of the cou

In selecting barking equipment it is to consider, in addition to the cost of insta kind of wood to be cleaned, loss of wood s capacity, operating cost and maintenance.

The inevitable result of these conside this part of the country has led to the almos acceptance of the continuous barking drums ling barrels.

One of a series of articles by Members of the M Branch, Technical Section, C.P.P.A.

FOREST INSECT COLLECTIONS INCREASE

The Forest Insect Laboratory at Sault reports that "an extraordinary large numb ections was received at the Sault Ste. Marie during July. The total number of collectio ceived exceeds 4,500."

Woods employees are urged to take important work. Send samples of insects t Insect Laboratory, Sault Ste. Marie, Ontario



COCHRANES - Headquarters for Hunters' Supplies

DOMINION SHOT SHELLS — DOMINION CENTRE FIRE and RIM FIRE CARTRIDGES

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COCHRANE HARDWARE (PORT ARTHUR) LTD.)

hain Saws on Review

Hearst Area and the Heron Bay Area Experience

n the July issue of the **Log Book,** an article was d on the B. C. experience with chain saws.

n order to get some idea of the use of chain saws rthwestern Ontario, the editor wrote to the P. M. cts (1947) Limited at Hearst, Ontario, and also I. E. L. representative on the Ontario Paper Com- operations at Heron Bay and Hemlo, Ontario. It eved that these two areas have a higher percent- f chain saws in use than other areas of Ontario elow are excerpts from the reports from those reas.

t is reported that in the Hearst area the majority n own P. M. Redheads and Woodbosses, while in eron Bay - Hemlo area, the I.E.L. Pioneer saw and -Pioneer 51's are predominant.

Report from Hearst:

"Power saws in this area are being put to use than ever and new operations north of Cochrane, io have widened the field considerably. The cut- are rapidly converting to the power saw, and all wners are quite pleased with them. We have in st a well equipped repair shop with an abundance re parts so that as little time as possible is wasted e event of a breakdown. This is the important with the cutter, for if his saw his not running he t produce wood upon which his living depends. The cutters usually work in pairs, buying a saw en them as this way they can produce more wood they could separately."

Report from the Heron Bay Area:

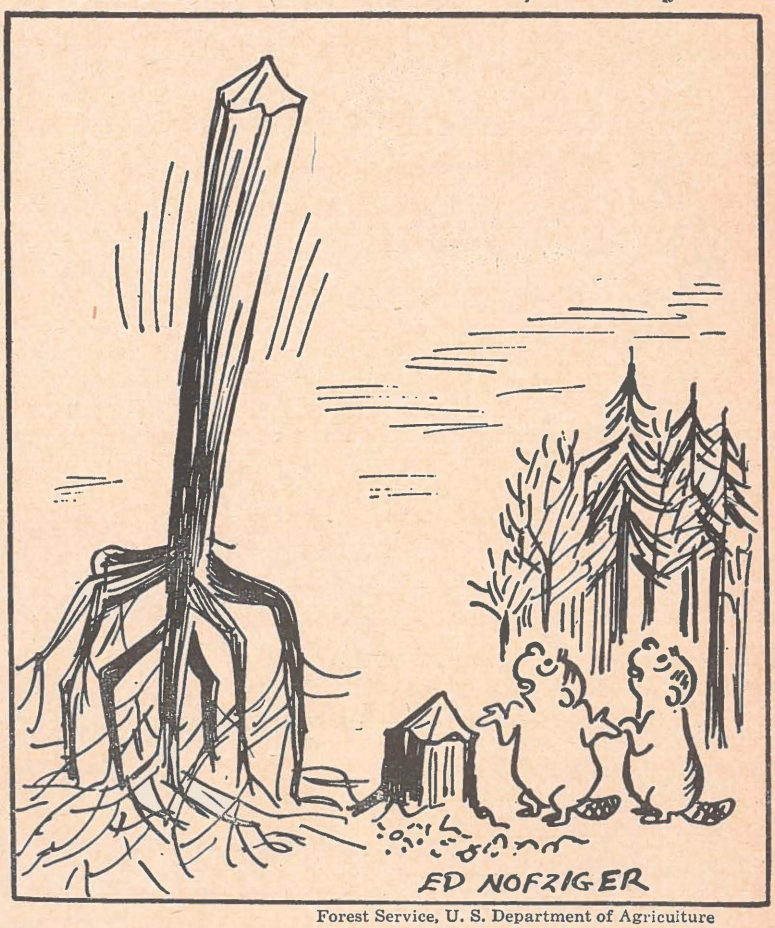
The I. E. L. representative at Heron Bay, Mr. Lud- Charron, reports that there are 120 Pioneer one- power saws on the limits. These saws are purchased e cutters on a cash basis, on the assumption that man owns a tool he will look after it,

Daily service is available to all cutters in the var- camps and, in an emergency, special trips are A good stock of parts is kept at the Depot by E. L. representative and training is given to all rs who purchase saws. When a green pulp cutter a saw, it is set up for him, serviced for him, and uple of hours spent showing him how to use it, to service it, how to clean it, how to cut with d how to mix his fuel for it. The purchaser is also red to experienced saw operators in the camp in which he is working so that he can gain from their experiences.

The use of the one-man power saw in Northwestern Ontario seems to be growing slowly but surely. All operators seem to agree that the only way to handle these machines is for the individual or a pair of cutters to actually own a machine. In places where good service is given to the cutter, it appears that the machines are going over and this appears to be the keynote of the success Good service means everything and it would appear that power saw companies, once they have established a service centre will sell machines.

NOTE — Mr. Lepine who represented the P.M. Products (1947) Limited at Hearst has been transferred to the Montreal Branch and has been replaced by Mr. Stan Nichols.

"JOE BEAVER" **By Ed Nofziger**



Forest Service, U. S. Department of Agriculture

"I hollered 'timber'—then it took a funny bounce!"

HONOURARY FIRE WARDENS

The following were missed from the Honourary Fire Wardens reported in the July Log Book.

K. V. P. COMPANY

Blair Keown	Wm. Blight	Earle Hearty
Batiste St. Martin	O. Labelle	Robert Sexsmith
Delphis Pappin	F. Yusko	Sylas Fairburn
Jack Weston	R. Mackey	Ray Archambeau
Lige Maville	D. Buchan	Jerry Dubois
George Williamson	C. Martin	Geo. Julian
George Buck	Jas. Mitchell	Alymer Chirko
Gordon Evans	L. Blanchette	John Delahney
St. J. McGuire	O. Bourque	Patrick Gellette
L. R. Wright	J. Poitras	Alex MacKinnon
K. B. Ripley	W. Goodchild	Patrick Plante
C. H. Smith	A. Dumas	H. A. Supple
T. Edwards	F. Dunne	D. A. Colquhoun
A. H. Burk	W. Chapman	W. Wismer
B. F. Avery	L. Lounder	Thos. Theriault
D. W. Gray	R. Primeau	D. Hutson
G. M. Stewart	W. Taylor	Jas. Caverley
L. L. Handford	Wm. Hearty	J. Merritt
Cecil McGee	Geo. A. Rose	T. E. Piilonen
V. Smith	Phillip Bouffard	Euclide Shank

This booklet is printed on "Thrift-Coat Enamel" manufactured at Provincial Paper Limited, Port Arthur Mill, Ontario, out of wood produced in Northwestern Ontario and printed by the Consolidated Press, 137 South May Street, Fort William, Ontario.

TIMBER DUES RAISED

Ontario Lands and Forests Minister, Hon. Scott, recently announced increases in Timber retroactive to April 1, 1931.

Dues are increased as follows:

Pulpwood:

Balsam from $ .95 to $1.40 per cord.
Jackpine from $ .70 to $1.40 per cord
Spruce from $1.70 to $2.80 per cord.
Poplar and other hardwoods from $ .50 $1.00 per cord.

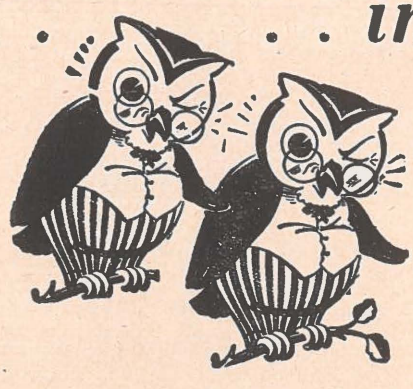
Sawlogs:

Ash, basswood, cherry elm, maple, c yellow birch from $2.70 to $5.00 per 1 F.B.M.
Birch, poplar, white birch and other har from $2.70 to $3.00 per 1000 F.B.M.
Balsam, jackpine and spruce from $2 $4.00 per 1000 F.B.M.
Cedar, hemlock and tamarack from $1. $3.00 per 1000 F.B.M.
Red pine and white pine from $2.85 to per 1000 F.B.M.
Dues on ties, boom timber and fuelwo also been raised.

Justice behind the iron curtain reminds u old army colonel at a court-martial who asked aren't guilty, why were you arrested?"

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PORT ARTHUR **GIBSON MOTORS** FORT WILLIAM

Authorized Ford Dealer—Thunder Bay District

NION AND PROVINCIAL ORGANIZATION N HOLD MEETINGS IN HWESTERN ONTARIO

he Board of Directors of the **Ontario Forest Ind- Association** held a meeting in Port Arthur on nber 18th.

he Woodlands Section, Canadian Pulp and Paper iation held field meetings at LongLac and Cara- Ontario Septemebr 19, 20 and 21.

Woods operators in Northwestern Ontario are pro- ve and have improvements and new technique- ging operations to show to operators from other of the country — just as they have to show us.

Such meetings are well worth while!

AUTHOR OF ADVENTURE BOOK WORKING AT LONGLAC.

Among the interesting people on its staff, the LongLac Pulp and Paper Company now can list an author. A book of adventure in the far north entitled "Sixty Below" is the work of a cook employed at Camp 9.

TONY ONREAT is the man, and he writes of his adventures as a trapper in the Northwest Territories.

Much of the manuscript was prepared while he was serving with Canada's armed forces in World War II. He writes vividly and delightfully of his huskies and the animals of the region, in addition to his experiences in prospecting and trapping. Tony is busily engaged in providing meals at Camp 9 and, incidentally, collecting material for his next book.

THE WORLD'S MOST PORTABLE SAWMILL

"Proven in the Woods"

§ SETS UP FOR SAWING IN 30 MINUTES

§ READY TO MOVE 15 MINUTES AFTER SAW STOPS

§ CAN BE TOWED BY TRUCK AT 45 M. P. H.



JACKSON LUMBER HARVESTER

A real aid to good Forestry practise, the Jackson Lumber Harvester makes selective cutting practical. A precision-built one-piece machine that requires no costly dismantling or reassembling. Only one skilled man is required. The sawyer rides the carriage and can see and control the entire operation and cut to higher yield per log, fewer mis-cuts. The Jackson Lumber Harvester manufactures accurate lumber at 5 man-hours per 1000 board feet. No slab or sawdust disposal expense. Costly loghauling virtually eliminated. Feature by feature, it actually excels mills costing 3 times as much — gives you bigger profits — the first new sawmill in 50 years!

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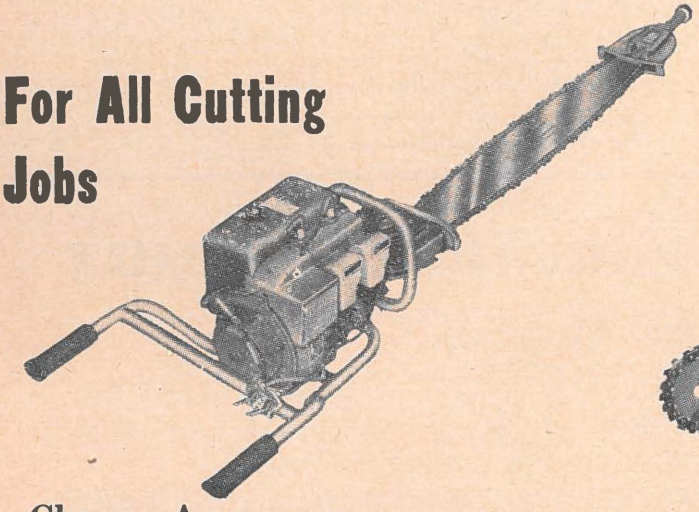
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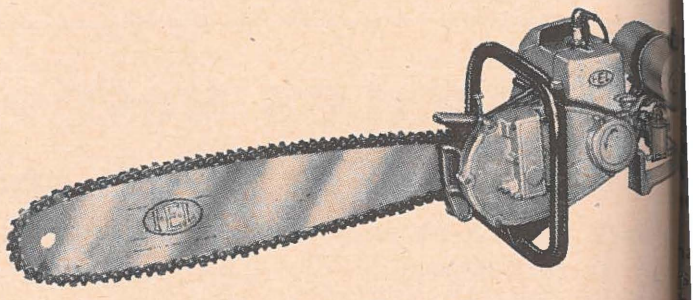


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- Concentric Float Carburetor
- New Transmission
- Improved Oiler
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For One-Man Operation



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You'll be convinced there isn't a saw to compare with the power-packed performance of the PIONEER and the SUPER TWIN — both made by Industrial Engineering Limited. The famous trade mark on every saw is your assurance of complete dependability, fast cutting action and all-round efficiency.

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915 MEMORIAL AVENUE — — — PORT ARTHUR, ONTARIO

HEAD TECHNICAL INSTITUTE TRY COURSES START

he Lakehead Technical Institute opened on Wed- September 12, with over 100 enrollments.

he first requirement for the seven second year cal Forestry students was to proceed to Beard- Ontario to take a Scalers' course and examina- eing held in a Brompton camp under the direct- Mr. J. D. Pennock, Supervisor of Scaling, De- nt of Lands and Forests.

en new students have enrolled in the First Year ical Forestry Course and two in the First Year sity Course.

Master-in-Forestry is Mr. John C. Campbell. His nt this year is Mr. J. W. Haggerty, formerly of hon Paper Mills of Canada Limited at Caramat, o.

NOTICE

The District Pensions Advocate, Shaughnessy spital, Vancouver, B. C., is anxious to locate . Marshall Godfrey, who formerly worked for e Brompton Pulp and Paper Company Limited. Anyone knowing the whereabouts of Mr. Mar- ll Godfrey is asked to have him contact the trict Pensions Advocate, Shaughnessy Hospital, ncouver, B. C.



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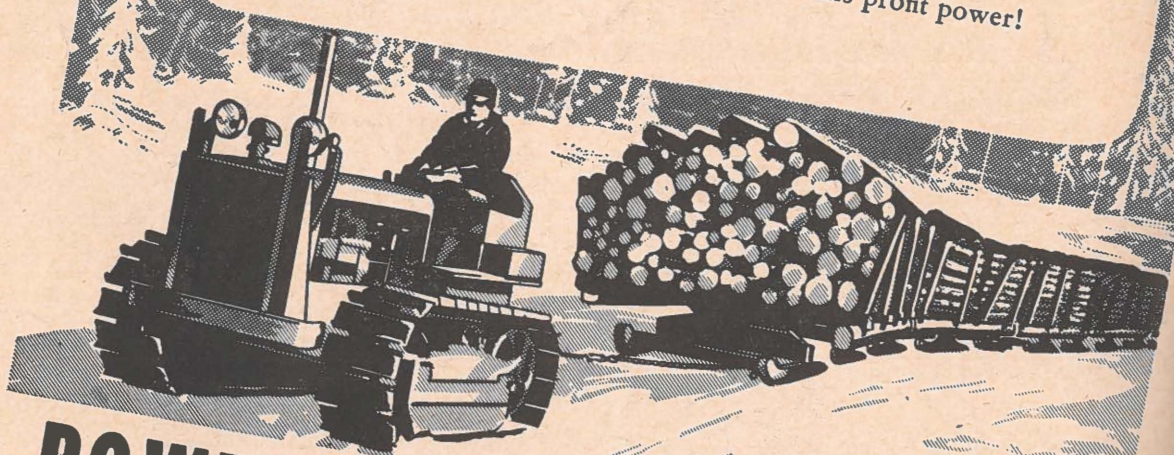
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Large loads cut hauling costs . . . large loads are "duck-soup" for "Caterpillar" Diesel Tractors.

In every tough working condition—mud, sand, snow—you can depend on "Caterpillar" Diesel Tractors. Long, wide tracks, geared to the ground, provide endless rails on which the tractor rolls over all types of terrain with a light, sure-footed tread. Deep grousers and long ground contact converts maximum engine power into drawbar pull. Easy steering and independent control of each track makes it easy to maneuver in close quarters. The whole tractor is built to last . . . to withstand cold weather as well as hot . . . to work with less downtime . . . to turn work into profits!

Take on bigger loads, a more profitable load, with "Caterpillar" Diesel Tractors. See us for more details on this profit power!



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