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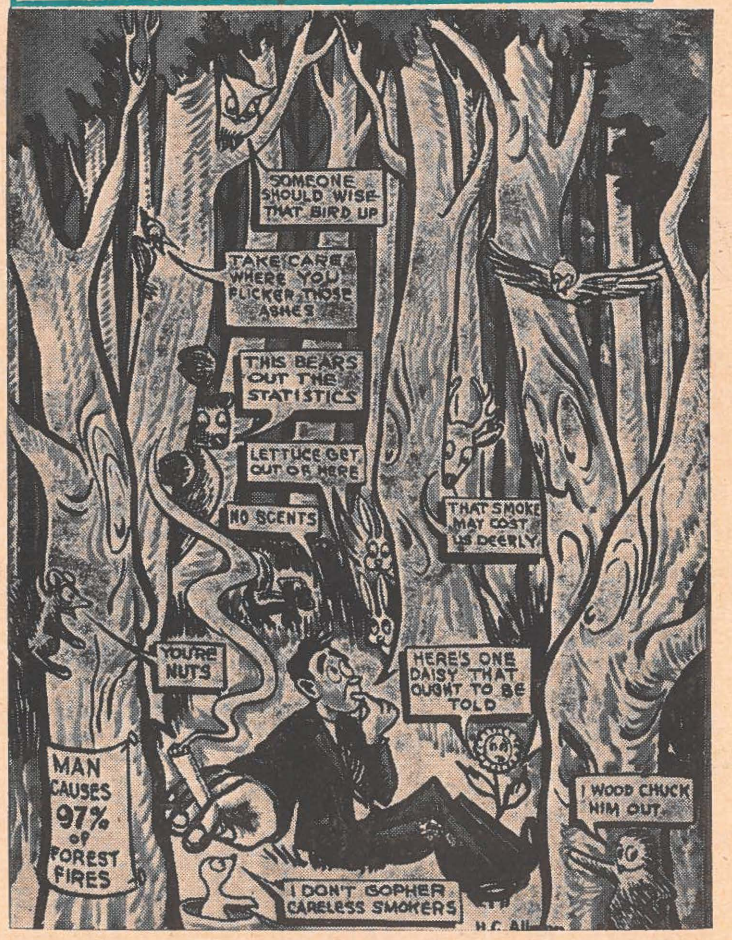
THUNDER BAY TIMBER OPERATORS ASSOCIATION

LOG BOOK

MAY
JUNE
1951

VOLUME 3 PORT ARTHUR, ONTARIO NO. 1

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Port Arthur, Ontario



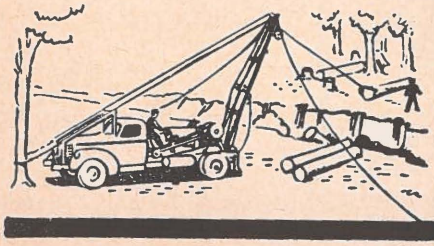


Mr. George Sonley,
Marathon Paper Mills,
Public Utilities Bldg.,
PORT ARTHUR, Ontario.

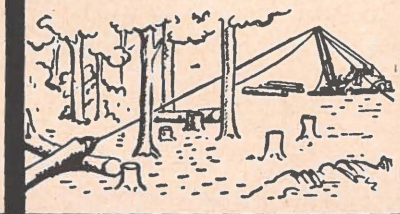
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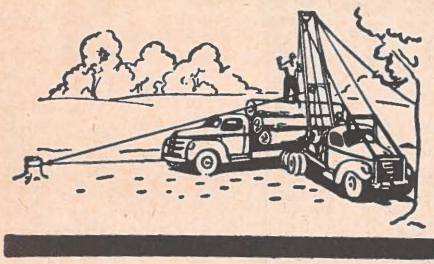


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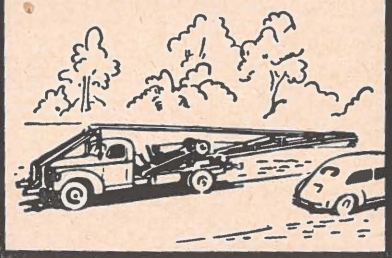


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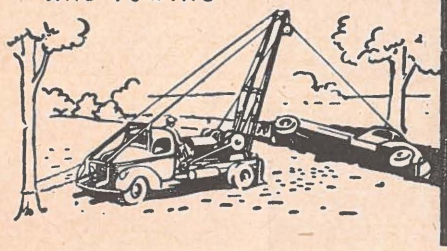
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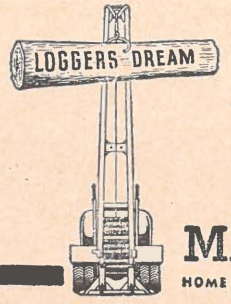
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Published by
THE THUNDER BAY TIMBER OPERATORS' ASSOCIATION

Edited by
T. S. JONES

resident's Message

This issue of the "Log Book" will usher in the ew Production and Delivery Programmes for 1951-52. he coming season has all the ear-marks of being one the busiest seasons on record for all woods Personnel.

In March operators with union agreements vol- ntarily agreed to meet the Lumber and Sawmill Work- 's Union to discuss an interim wage increase effective pril 1st. It is pointed out that the existing agreement oes not expire until August 31st of 1951; however, it as recognized by the Operators that since last August ere had been increases in the cost-of-living. Accord- gly, and by mutual arrangements with the Union uthorities, the Union's request for an interim increase as considered. As a result of the negotiations in March, 7% increase across the board became effective April t, until the expiry date of August 31st, 1951.

With the anticipated production programmes of l companies, there should be both lucrative and steady nployment for everyone in this industry throughout e year.

Operators in general, came through one of the most fficult operating years in history and we trust we ll be blessed with weather this year more approaching rmal. Good Luck to one and all.

H. H. "Bert" Styffe.

OREST FIRE MEETINGS HELD

Department of Lands and Forests Regional and strict Foresters have held a series of fire protection eetings with representatives of operators to discuss rest fire prevention, detection and suppression and to ordinate mutual plans for the coming season.

The meetings were all well attended and serve a efu purpose in bringing everyone face to face with the rest fire problems to be encountered from now on.

HAT A WINTER!

Department of Transport Weather Office at the kehead Airport reported amount of snowfall as fol- rs:

1950	November	— 33.6	inches
	December	— 14.6	"
1951	January	— 14.3	"
	February	— 27.7	"
	March	— 23.4	" plus ½" rain

Certain "snow" areas of Northwestern Ontario (e.g. rdmore area) would exceed the Lakehead snowfall many inches.

What a winter!

HERE'S AN OVERALL REVIEW OF ORGANIZATIONS, INSTITUTIONS, ETC. INTERESTED IN ONTARIO'S FORESTS

There are many organizations, institutions, etc., starting with the Ontario Department of Lands and Forests that have a direct interest in the forests of Ontario, the management thereof; research projects; the production of qualified technical and professional men; the safety of employees, etc., etc.

A review has been made of the larger organizations interested in Ontario's forests and an outline of these is to be found in this booklet. Some organizations may have been missed from this list. If so, we apologize and will be glad to put information of same in the next issue. Ontario organizations have been reported in a little more detail than national organizations, but, as this review is about Ontario's forests, this is excusable.

It is a very impressive list presenting the interest and time of thousands of people in perpetuating our forests. Look it over on pages 13, 14, 15, 16, 18 and 19.

ALL "SEAMAN" MUST HOLD SECURITY CARDS ON "GREAT LAKES"

"SEAMAN" — means a person employed in any capacity on board a ship and includes the the master of a ship.

"SHIP" — means any ship registered or owned in Canada and includes any ship operated under charter or lease by any person who resides in Canada.

Seamen's Cards

No person shall employ a seaman on board a Canadian ship in the Great Lakes

(a) from June 1 to July 31, 1951, inclusive, unless the Seaman is the holder of an interim or regular Seaman's Card or

(b) on and after August 1, 1951, unless the seaman is the holder of a regular Seaman's Card.

No person shall accept employment or act as a seaman on board a Canadian ship in the Great Lakes

(a) from June 1 to July 31, 1951, inclusive, unless he is the holder of an interim or regular Seaman's Card, or

(b) on and after August 1, 1951, unless he is the owner of a regular Seaman's Card.

Application for:

Seaman's Cards should be made at your nearest National Employment Service Office. The application must be accompanied by three photographs of the applicant of a standard passport size (two and one-quarter inches by one and one-half inches), taken not more than one year before the application, and the officer of the National Employment Service to whom the application is delivered shall cause the applicant to furnish him at that time, to accompany the application, prints of the fingers and thumbs of both of the applicant's hands taken in the presence of the officer in the manner prescribed by the Minister.

For full details of the "Great Lakes Seamen's Security Regulations" apply to the nearest N.E.S. office.

COVER CARTOON

Cover picture through the courtesy of the State of Wisconsin Conservation Department, Forest Protection Headquarters, Tomahawk, Wisconsin, U.S.A.

METHOD OF INVENTORY SURVEY ON TIMBER LIMITS OF DRYDEN PAPER COMPANY LIMITED

By W. S. Moore

An accurate inventory of the timber resources of any forest operating company is the basic tool in woodlands planning, development, and management. With this in mind a survey of the Dryden Limits was undertaken in the Fall of 1948 and completed in 1950, under the direction of Mr. F. T. Jenkins, Consulting Forester.

The actual organization of the work, which was preceeded by aerial photographic coverage and planimetric base map preparation, was accomplished in four phases:

1. Preliminary sampling.
2. Typing, transferring and laying out of field work.
3. Ground checking and sampling.
4. Compilation of estimates.

The complete limit area was photographed at a scale of 1 inch equals 20 chains and the base maps prepared at this scale to conform with those used by the Forest Resources Inventory of the Department of Lands and Forests of Ontario.

The following outline will show the sequence of the work and the major considerations behind each phase.

1. Preliminary Sampling

This was undertaken to acquaint the cruisers concerned with forest conditions over the area and to supply preliminary data for reference purposes during forest typing. General age and cover type classes were marked out on the photographs and sample strips run to give a fair sample in all types over the complete area. On the completion of this phase the personnel engaged in cruising began the actual typing.

2. Typing, Transferring and Laying Out of Field Work

Five cover types, five age classes and four density groups were recognized on the photographs:

Cover Types: 1. Coniferous Type
- Mixed Coniferous Sub Type
- Jack Pine Sub Type
- Black Spruce Sub Type

2. Mixed Wood Type
3. Hardwood Type

Age Classes: Overmature
Mature
Immature — over 2/3 rotation age
Young Growth — 1/3 - 2/3 rotation
Reproduction — under 1/3 rotation

Density Groups:
1. 90 - 100% Fully stocked
2. 60 - 90% Stocking normal
3. 30 - 60% Medium stocking
4. 0 - 30% Open, scattered

Height was used as a complementary fac determining cover type, age class, density groupin it was found from examination of the summary c records that height class was uniform within grou

The forest types were transferred to the base by means of a Sketchmaster and the types to be sa indicated in preparation for summer field work majority of the samples were taken in the classes the heaviest volume while the non commercial were more lightly sampled. This system of cont ground inventory by stratification of field plots into account several stand variables; largest pe volume and greatest commercial value; the know iability within the individual classes was account by leaving the actual selection of the plot loc within the types to the discretion of the party ch this way a truy average sample was gathered.

3. Ground Checking and Sampling

Fifth acre plots were used, one half chain and four chains long, with, at least, one, and u two, borings and heights being taken in each plo other relevant forest data within the plot was ga at the same time. During this work the max amount of field checking was accomplished by obs and noting the conditions in all types travelled th The value of the preliminary sampling was very ent in the few type changes necessary.

4. Compilation of Estimates

The compilation was carried out in a manne similar to that used by the Forest Resources Inve so that final data would be in the form required the Manual of Timber Management. Volume were prepared for all species from the data co during field work, from which height curves and factors were determined and applied to Dominion Class tables. Field data was summarized and vo arrived at which were transferred to Inventory Su

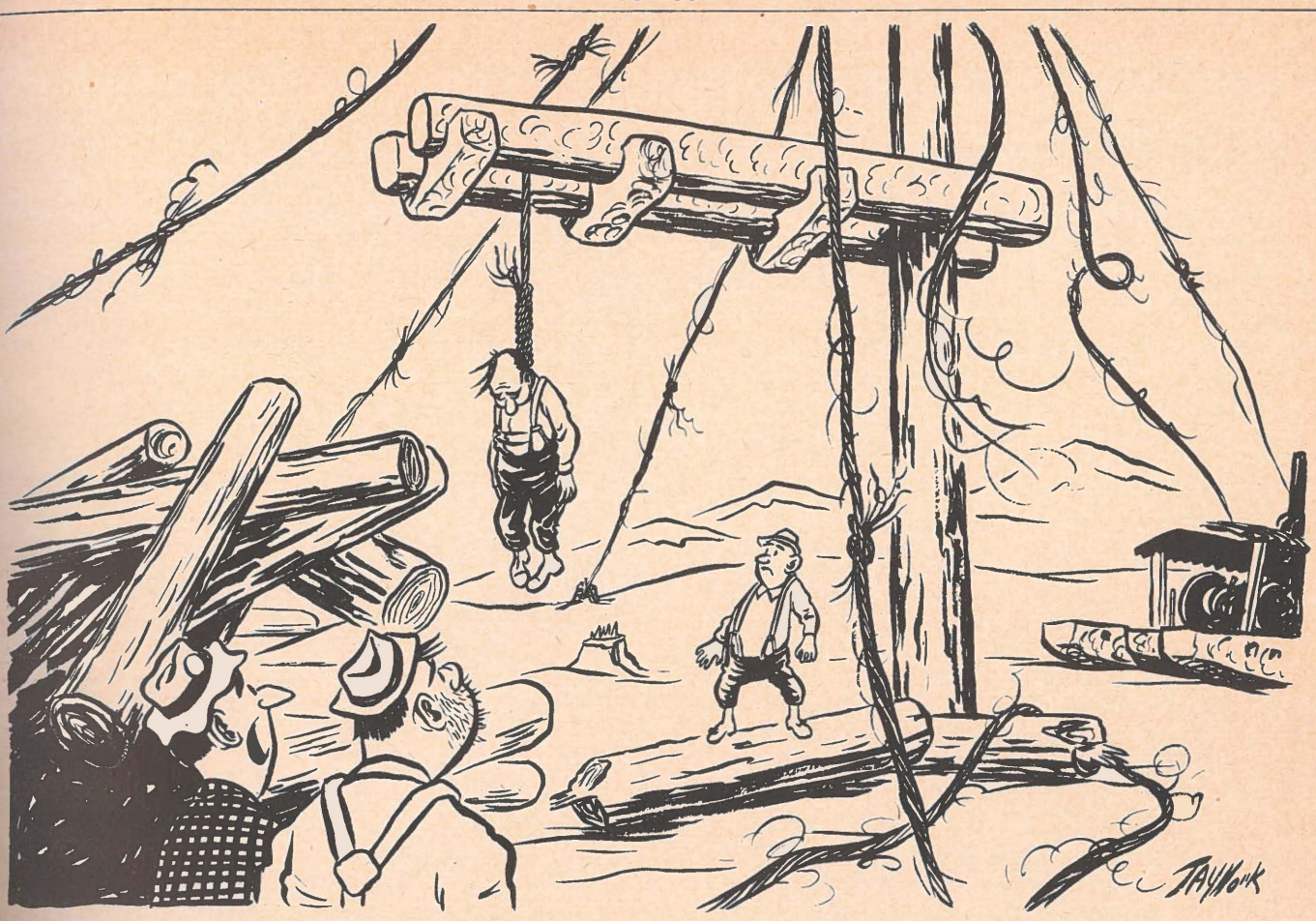
(Continued on Page 7)



TB. X-Ray Survey to Continue.

2971 woods employe X-rayed this past win

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Lakehead Technical Forestry Courses Get Co-operation

Dr. Bartley, the Staff of the Forest Department and the Technical Foresters of Lakehead Technical Institute are indebted to the men who contributed the following lectures throughout 1950-51:

Mr. P. V. LeMay, Operating Manager, Marathon Paper Mills of Canada: Mechanical Logging, 2 lectures.

Mr. F. L. Stevens, Assistant Divisional Woodlands' Manager, Abitibi Power and Paper Co.: Eight-foot Pulpwood Cutting and Hauling Operations, 2 lectures.

Mr. D. E. Graham, Chief Construction Engineeer, Great Lakes Paper Company: Camp, Road, Bridge and Dam Construction, 2 lectures.

Mr. M. Cochran, General Manager, Hammermill Paper Co.: The American Pulp and Paper Industry, one lecture.

Mr. J. Barron, Management Forester, Dept. of Lands and Forests: Working Plans, one lecture.

Mr. T. S. Jones, Manager, Thunder Bay Timber Operators' Association: Industrial Relations; Review of the Principal Forestry Organizations of Canada, including a description of the activities of the Pulpwood Salvage Association, 2 lectures.

Mr. A. F. Buell, Woodlands Manager, LongLac Pulp and Paper Company Ltd.: Values of All-Season Logging, one lecture.

Mr. P. Addison, Regional Forester, Dept. of Lands and Forests: Nursery Practice, one lecture.

Mr. A. Kastrick, Forester, Great Lakes Lumber a Shipping Ltd.: Cruising for Sawlogs; Silvicultural Me ods of Cutting Pine, 2 lectures.

Mr. F. Lyons, Research Forester, Dept. of La and Forests: Regeneration Surveys, one lecture.

Mr. W. A. Robinson, Chief of Compilation, M athon Paper Mills of Canada Ltd.: Compilation of Cru Data, one lecture.

Mr. F. Robinson, Forester, Abitibi Power and Pa Co.: Typing Aerial Photographs, one lecture.

Mr. K. Hearden, District Forester, Abitibi Po and Paper Co.: Importance of Site and Silvicultu Characteristics of Trees, one lecture.

Mr. G. Sonely, Chief Forester, Marathon Pa Mills of Canada Ltd.: Use of Aerial Photographs Forest Management, one lecture.

Mr. D. Pickard, Chief of Surveys, Brompton P and Paper Co. Ltd.: Photographing cut-over areas, lecture.

Mr. M. Sauerbrei, Protection Specialist, Dep ment of Lands and Forests organized and presente comprehensive eight-hour lecture course in Fo Protection. We are very fortunate to have a man has had twenty years experience in Forest Protec work give this course.

It is apparent from the list of contributors that Technical Forestry course of Lakehead Technical In ute has enjoyed the fullest cooperation from the timber industries and the Department of Lands Forests. This in itself assures a good and worthy t ing for any young man wishing to further himsel the field of Forestry.



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OC" FOWLER REPORTS

E. J. "Doc" Fowler of Port Arthur is employed as arpenter at the Great Lakes Lumber & Shipping Lim- d but, by arrangement, he is available at all times to the many and varied diving jobs that arise in the rse of operations.

Among the most important diving jobs done last r were:

Advisor to the Claydon Construction Company and er in connection with the construction of a coffer n for the Abitibi Thunder Bay Mill in connection h their pump house.

Diving for the Port Arthur Shipbuilding Company connection with removing the launching timbers from the new oil tanker, "Imperial Redwater." A couple of hundred pieces of the launching timbers had to be freed after the launching.

Several trips to the Steep Rock Iron Mines to repair the big ore dredge and on one trip also raised a tractor which had dropped through the ice.

This past winter Doc ran into one of his toughest decisions in 37 years of diving. The Hammermill Paper Company had lost a tractor through the ice at Ycliff and, after a survey by Doc, it was found that the tractor was in 65 feet of water, buried under four feet of quick sand. Due to these dangerous conditions and the limitations of the diving equipment used, it was decided not to undertake this job.

"Doc" is known far and wide not only for his valuable assistance in diving jobs but for his genial personality.

Good Luck, "Doc."

—o—

METHOD OF NVENTORY SURVEY ON TIMBER LIMITS OF DRYDEN PAPER COMPANY LIMITED

(Continued from Page 4)

Sheets. Area summary sheets were compiled for each map sheet from dot grid measurements of all forest types, and these areas in turn applied against volumes on the summary forms to arrive at the estimated total volumes of all species.

The system of compilation set up the data in a very accessible form for further modification, stand table and stock table preparation, etc.

The above outline, which necessarily is short, covers in a general manner only the major points of organization in the detailed job of survey. However, an understanding of the logical sequence of the work will enable efficient planning to carry through the job.

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



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THE NORTHERN ENGINEERING & SUPPLY COMPANY LIMITED

FORT WILLIAM ONTARIO CANADA

SAFETY NEWS

SLOPPY, OLD CLOTHING IS AN ACCIDENT HAZARD

Poor footwear is the worst offender. Well made caulked boots with a 10" top combined with a mining safety shoe can now be obtained in some vans. The use of these would cut down on accidents caused by slipping and falling, cut toes, etc.

Watch the way men wear their pants. Wearers of belts and rolled up cuffs should be warned. Belts cause the pants to hang lower than they were intended and create a hobble when a man is trying to step over a high windfall or climb to the high back of a truck. The wearing of braces and cutting off of a cuff to the right length should be encouraged.

Experimentation in the use of hard hats in the woods industry is being continued but in the meantime men should be encouraged to wear hats with a full crown and brim. The full crown would give protection against falling limbs and the brim against falling rain.

Wear gloves and mitts snug around the wrist.

UNAUTHORIZED USE OF MACHINERY IN MANY CASES RESULTS IN AN ACCIDENT AND CAN BE VERY PAINFUL AND COSTLY.
DO NOT OPERATE MACHINES WITHOUT AUTHORITY!

THE DRIVE WILL SOON BE ON!

DRIVE SAFETY PRECAUTIONS SHOULD BE R VIEWED AND INSTRUCTIONS ISSUED TO REFRE THE MEMORIES OF ALL CONCERNED.

Check the following points:

Boats and canoes in good working order.

All gasoline boats with inboard motors to have least one fire extinguisher.

Sufficient life preservers on board each motor b for each member of the crew.

No smoking or using matches when filling a g oline tank.

Paddles or oars available on all motor boats emergencies.

Do not forget that all river drivers should w caulked boots in good repair.

STORAGE BATTERIES CAN BE DANGEROUS

The March 1951 issue of the Pulp & Paper M azine of Canada carried an article by Mr. C. S. Mo Mechanical Superintendent, Canadian Internati Paper Company, outlining the hazards that entaile the use and charging of storage batteries.

If you are handling storage batteries and are aware of all the dangers and have not read this art then get a copy of the March issue.

If you cannot find a copy of this magazine, pl write to this office and we will send you a reprin the article.

ALLIS-CHALMERS

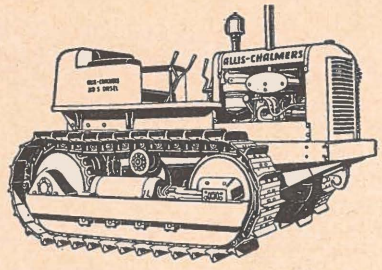
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SAFETY NEWS

TARIO PULP & PAPER MAKERS' FETY ASSOCIATION HOLD ANNUAL MEETING

M. (Fort Frances) Wins Safety Award

The 36th Annual Meeting of members of the tario Pulp & Paper Makers' Safety Association was d at the King Edward Hotel, Toronto, April 4th.

President A. E. H. Fair reviewed the accident quency record of the year and looking at the four rs beginning with 1947, it appears that the accident trol efforts of member companies have resulted in iding about 3,500 disabling injuries and in saving lives in mills and woods operations together. Mr. praised the work of the various recently formed nches of the Association and attributed a good share the success in 1950 to their activity and enthusiasm.

A Board of Directors of 19 members were elected Mr. L. T. Bradley was elected President, Mr. R. J. in, Vice-President and D. B. Chant continues as retary Engineer.

Following adjournment of the business meeting at 30 two simultaneous discussion conferences were d for mill personnel and woods operations personnel these were presided over by Messrs. A. T. Gardner vincial Paper, Mille Roches) and John Currie (Great es Paper, Fort William) respectively. Various ques- s relating directly to accident prevention were dealt and many practical methods and ideas were des- ed. Discussion at both conferences was lively and eral.

The trophy to the winner in the accident prevention petition in the woods operations in 1950 of member panies was presented by Mr. E. E. Sparrow, Chair of the Workmen's Compensation Board, to Mr. rge A. Potts, Woods Manager of the Fort Frances sion of the Ontario-Minnesota Pulp & Paper Com- y Limited.

EAT LAKES PAPER COMPANY NDUCT FIRST-AID COURSE

"The Link" reports that a group of 27 men from r Woodlands employees in the Black Sturgeon area a First Aid Course under the direction of Mr. rette E. Sliter, First Aid Instructor, and 21 took the l examination under Dr. H. R. Murphy. Six persons took the course were unable to take the examina- due to various circumstances. All 21 taking the minations passed, which speaks well for the training instruction given the group by Mr. Sliter

J. W. McNUTT SUCCEEDS MALCOLM COCHRAN AS PRESIDENT OF LUMBERMEN'S SAFETY ASSOCIATION

The Annual Meeting of the Lumbermen's Safety Association was held in North Bay, April 17th. The meeting was well attended and besides the routine business, those present heard retiring President, Malcolm Cochran of Port Arthur, Mr. E. E. Sparrow, Chairman of the Workmen's Compensation Board, Toronto, and Mr. T. N. Dean, ex-statistician, Workmen's Compensation Board.

Mr. J. W. McNutt was elected President for the current year.

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



"Old Paul had a purpose in cross-breeding an owl with a parrot. In addition to furnishing Paul with his wise-cracks, his famous "Par-hoot" became his consultant and advisor."

33rd Annual Meeting Woodlands Section, C.P.P.A., Successful

Aprroximately 700 delegates from all over Canada and the United States attended the 33rd Annual Meeting of the Woodlands Section, Canadian Pulp & Paper Association, held at the Mount Royal Hotel, Montreal, March 28th - 30th.

Mr. Gordon Godwin, assistant general woods manager of the Ontario Paper Company Limited was Chairman of the 3-day meeting.

Papers were presented on Woods, Labour Training, Conservation, Forest Management and Woods Operations. General sessions and group panel discussions on various subjects were held and, in addition, motion pictures pertainjng to the industry completed a very interesting and varied programme.

Highlights of the meeting were an address at the Annual Luncheon by Mr. James Muir, president of the Royal Bank of Canada, speaking on "Forests and the Nation."

In addition, a Thursday night stag affair proved to be highly successful with an entertainment programme being staged in addition to the Canadian (World's) Championship Buck-Saw Contest being run off, and a representative from **Northwestern Ontario, Ludovic Cyr, of the Ontario Paper Company Limited, Heron Bay, Ontario, won the Championship.**

Northwestern Ontario representatives certainly did their part to make the proceedings a success. Over 40 representatives of woods operating companies in Northwestern Ontario attended as well as representatives from equipment producers.

Mr. Ted Summers, Ontario Paper Company Limited, won the Elwood Wilson Award donated by the K V P Ccmpany Limited and, as mentioned above, Ludovic Cyr won the World's Championship Buck-Saw Contest. In additioo, **Mr. Wilf Carlson, LongLac Pulp & Paper Company Limited,** presented a very interesting paper entitled, "The Mechanical Handling and Movement of Pulpwood on the Limits of the LongLac Pulp & Paper Company Limited." In addition to this paper, several Northwestern Ontario representatives were asked to comment on other papers and, in particular, **Mr. P. V.**



Mr. Ted. Summers, well known and genial Woods Superintendent of the Ontario Paper Co. Ltd., Heron Bay, Ontario, receiving the Elwood Wilson Award donated by the K. V.P. Company, Ltd. from Mr. D. Gray. Mr. Summers won this award for his work in developing the Summer's Mechanical Sloop.



Ludovic Cyr in action at the Buck-Saw Championships in Mon

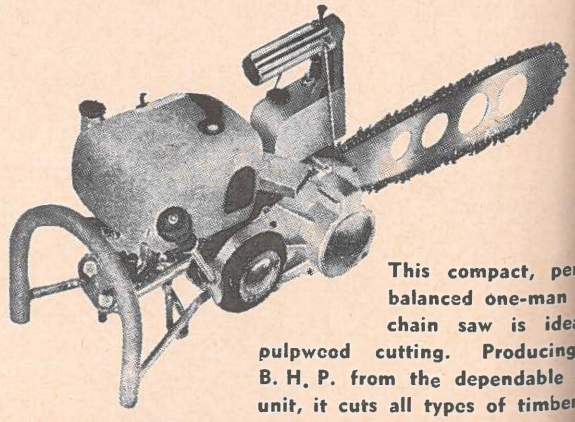
LeMay, Marathon Paper Mills of Canada Limited, an interesting review of the Marathon improvement their mechanical operations during the last year.

Mr. Gordon Godwin was re-elected Chairman Mr. J. B. Matthews, chief forester, Abitibi Pow Paper Company Limited, Toronto, was elected Chairman.

Councillors were elected and representing Northwestern Ontario Section is **Mr. W. B. Sou Woodlands Manager, Great Lakes Paper Company ited.**

CUT MORE LOGS and . . . SAVE!

PM WOODBOS Redhead



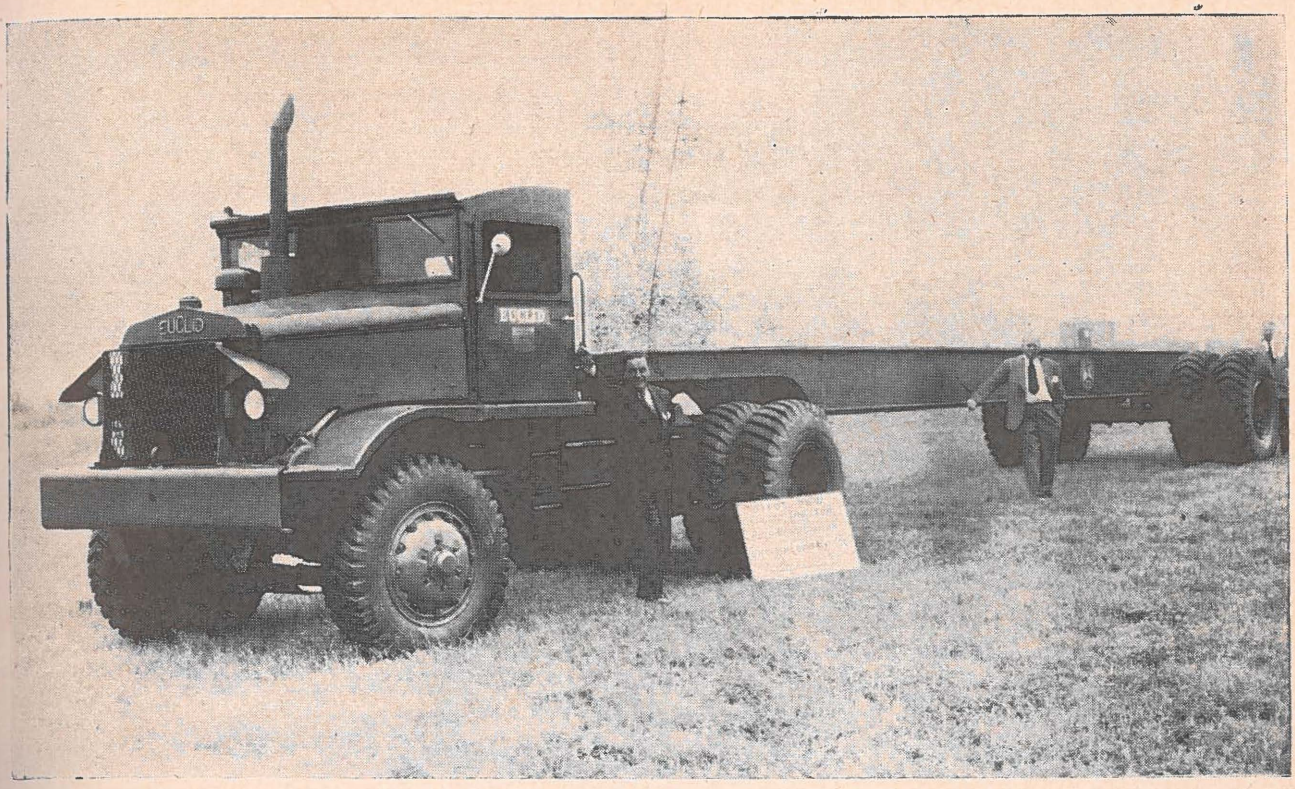
This compact, perfe balanced one-man po chain saw is ideal pulpwood cutting. Producing B. H. P. from the dependable m unit, it cuts all types of timber under all weather conditions . . . and with a minimum effort. Parts and service readily available.

P. M. PRODUCTS (1947) LTD.

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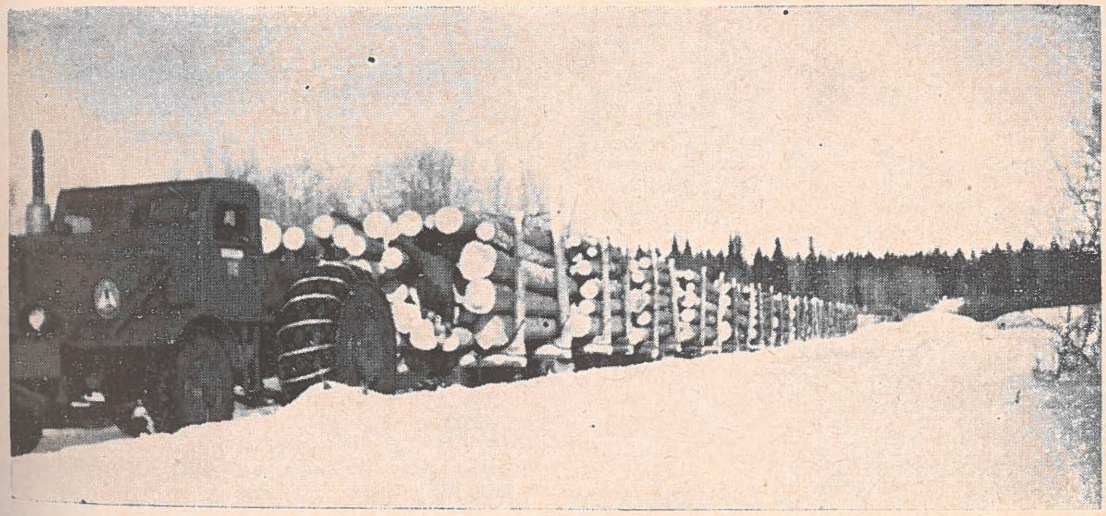
This unit owned and operated by Canadian International Paper Company (Opawica Division)

Modern Logging Has Created a Heavy Demand for EUCLIDS

Tractor and trailer shown used to haul 20 cord loads of 12' pulpwood 15 miles at AVERAGE loaded speed of 20 M.P.H.

What ever off-the-highway hauling there is to be done, there's a specially designed EUCLID to do it. Enquire today about the EUCLIDS line.

TRACTOR — 190 H.P. Deisel Engine, speeds — 2 M.P.H. to 27 M.P.H., Weight - 19,600 lbs.
TRAILER — Length - 41', Capacity Pulpwood 20 cords, Weight - no load - 16,000 lbs.



Pictures taken on The Pas Lumber Co. operation at Reserve, Saskatchewan, where this Euclid Tractor again proved its ability to go out and produce against terrific odds and elements.

G. H. GODSALL EQUIPMENT CO. LTD.

TORONTO
213 BAY STREET

PORT ARTHUR
TEL. 5-6753

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PORT ARTHUR, ONTARIO

A JOHNSON SEA HORSE Is A Workhorse For You.

★ **Special**

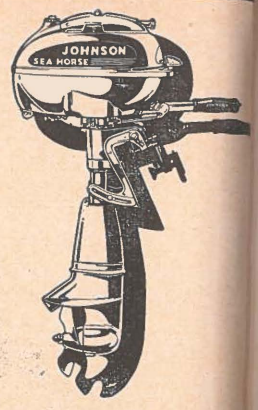
10 oz. WHITE TENT
16 x 24 x 4
3 ONLY

Reg. $104.75 Spec. $89.00

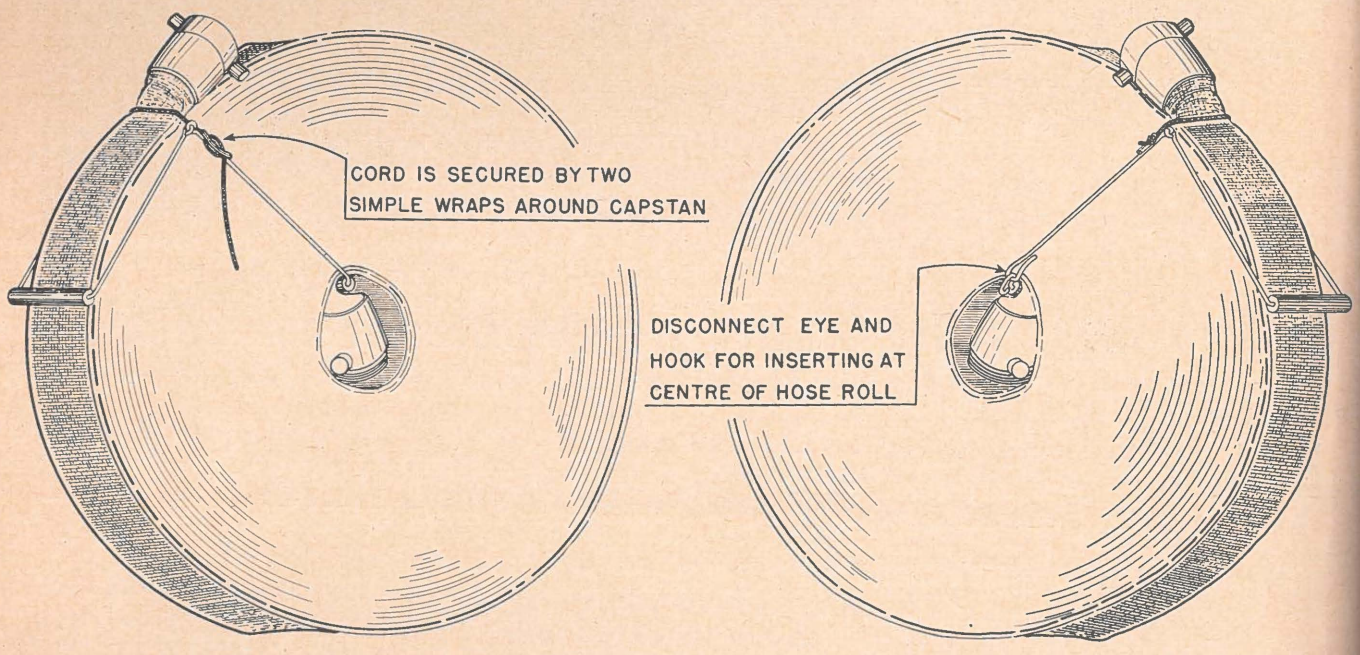
MARSHALL WELLS has the Johnson Motor for every outboard need. The 1951 Johnsons are a complete line of easy handling, smooth running, economical motors. Four brilliant alternate firing twins. Ranging from the Worlds lightest to the World's most powerful.

PHONE, WRITE or WIRE
now for full particulars and prices.

MARSHALL-WELLS



Marathon Employee Invents Fire Hose Tie and Carrier



COMBINED HOSE TIE, HOSE CARRIER, AND WHEN CORD IS RELEASED WILL SERVE AS HOSE LAYING TONGS

A simple gadget for holding and carrying a roll of linen hose, permitting it to be unrolled as the fire ranger moves through the woods, has been invented by Bill Eden, well-known on Marathon's operations, both Mill and Woods.. The device has won approval from everyone concerned directly in forest fire fighting, and Bill has a number of testimonials to this effect. The following is an excerpt from a recent News Release issued by the Department of Lands and Forests:

"TORONTO.—For years Ontario's forest fire fighters have been looking for a gadget from which hose may be easily unwound — and now they believe the search has ended. An employee of a northern pulpwood company has come up with a jointed wire gadget which is quite simply hooked into the centre of the hose roll. It not only provides a convenient handle by which the roll is carried, but also permits the hose to unwind just as fast as the person carrying it can move through the woods. Previously, experiments had been made with various types of hose "tongs," but department officials fee new device — 'simple as a crimp in hairpins, — w generally adopted throughout the north."

Bill is to be congratulated on his ingenuity in ving so simply a problem which has long given co to forest protection experts. Everyone hopes tha invention wil pay off doubly — to Bill and to those use it.

This gadget is patented and it is hoped will the market shortly.

DRIVERS TAKE NOTE —

A FLASHING BLUE LIGHT on Ontario's hig means the approach of an over-sized vehicle — ably a snow-plough or sander of the Ontario Depar of Highways.

Drivers are asked to give extra room to ploughs, etc., which must straddle the center road in order to do an efficient job.

CHECK THIS BRIEF OUTLINE OF ORGANIZATIONS VITALLY INTERESTED IN ONTARIO'S FORESTS.

Government, Educational, Safety, Research, Operating, Administrational

DEPARTMENT OF LANDS AND FORESTS
PROVINCE OF ONTARIO

Toronto, Ontario

Minister — Hon. H. R. Scott
Deputy Minister — F. A. MacDougall

Administrative Divisions

Accounts — J. G. McMillen, Chief
Air Service — G. E. Ponsford, Chief
Fish and Wildlife — Dr. W. J. K. Harkness, Chief
Forest Protection — T. E. Mackey, Chief
Land and Recreational Areas — W. D. Cram, Chief
Operation and Personnel — P. O. Rhynas, Chief
Reforestation — E. J. Zavitz, Chief
Research — R. N. Johntson, Chief
Surveys and Engineering — F. W. Beatty, Chief
Timber Management — J. F. Sharpe, Chief

Field Divisions

ESTERN REGION —
Fort Frances District — Sioux Lookout District
Kenora "
ID-WESTERN REGION
Port Arthur District — Geraldton District
ENTRAL REGION —
Gogama District — Chapleau District
Sault Ste. Marie " — North Bay "
Sudbury " — White River "
ORTHERN REGION
Kapuskasing District — Timiskaming District
Cochrane "
OUTH-WESTERN REGION
Lake Huron District — Lake Simcoe District
Lake Erie "
OUTH-CENTRAL REGION
Algonquin District — Parry Sound District
OUTH-EASTERN REGION
Rideau District — Trent District
Quinte " — Ontario Forest Ranger School

The Department of Lands and Forests employs approximately 400 permanent employees and with temporary and casual employees as many as 6,000 in the summer months. The number varies according to fire hazard conditions.

The Department administers an area of 220,895 square miles. There were 1,283 sawmills (40 over 30,000 feet daily capacity) and 4 paper mills licensed under the Mills Licensing Act in 1948-49. 129,980.75 square miles were under pulpwood and timber agreements as at March 31st, 1949.

(A full report of the Activities of the Department of Lands and Forests is contained in the Report of the Minister of Lands and Forests for the Province of Ontario for the fiscal year ending March 31st, 1949. Copies of this report may be obtained from the King's Printer, Toronto.)

DEPARTMENT OF RESOURCES AND DEVELOPMENT
FORESTRY BRANCH

Ottawa, Ontario

Director — Dr. D. A. Macdonald

Forest Products Division

Chief — Col. J. H. Jenkins
Two Laboratories — Ottawa and Vancouver.

Each Laboratory is divided into the following main sections:
Administrative Section — Wood Utilization Section
Timber Mechanics Section — Wood Chemistry Section
Wood Preservation and Pathology Section

The Ottawa Laboratory has in addition a Wood Technology Section.

Note: Functions of Vancouver Laboratory are concerned mainly with research problems of the Western Canada timber regions.

Forest Research Division

Chief — G. Tunstell
Associate Chief — J. D. B. Harrison

Head Office Sections

Silviculture Section — Fire Protection Section
Forest Management Section — Inventories Section

Field Offices

Lake Timmins — Newfoundland
Quebec — Manitoba - Saskatchewan
Petawawa (Ontario) — Alberta

Forestry Operations Division

Chief — H. W. Beall

Education Section — Indian Affairs Section
Parks, Northwest Territory and Yukon Section — Provincial Agreements Section

The Forestry Branch administers the Canada Forestry Act, which provides for scientific research in problems affecting Canada's forests and their development, conservation and more effective utilization. The major fields of forest research are Silviculture, Fire Protection, Forest Air Surveys, Forest Products and Forest Economics. The provisions of the Act also include the establishment of National Forests and Forest Experimental Areas, the maintenace of Forest Products Laboratories, and assistance to any province or forest owner in the protection and developmen of forest lands.

It is organized in several divisions and sections in order to provide efficient conduct of the different functions governed by the Act.

The functions of the different divisions are available in detail. Anyone wishing the details may write the Editor, The Log Book for further information.

Petawawa Forest Experiment Station

This is the oldest and largest Dominion experimental area, embracing approximately 100 square miles. Studies were initiated on this area over thirty-two years ago. The reliable records on growth and yield which have been maintained for this length of time are of great value and the value of these records increases at an accelerated rate year after year. Most of the studies on this area are in the field of silviculture and forest management. The area has also been used as a proving ground in the development of techniques for the interpretation of aerial photographs. It was also on the Petawawa area that the initial work was done in the development of forest fire danger tables based on meteorological data. Tables of this nature are now in use by most of the provinces, most of the forest protective associations, and the national parks.

FOREST INSECT LABORATORY AND LABORATORY OF INSECT PATHOLOGY

Sault Ste. Marie, Ontario

M. L. Prebble — Officer-in-Charge
J. M. Cameron — Second-in-Charge, and in Charge Laboratory of Insect Pathology
B. M. McGugan — In Charge, Forest Insect Survey
J. E. MacDonald — Chief Forest Insect Ranger

Seasonal Field Stations:

Chalk River, Ontario (Ottawa Valley), D. A. Fraser, in charge.
Laniel, P.Q. (Temiskaming District), J. B. Thomas, in charge.
Black Sturgeon Lake (Port Arthur District), R. M. Belyea, in charge.
Cedar Lake (Sioux Lookout District), J. R. Blais, in charge.

Seasonal Insect Ranger Stations are maintained in each forest district of Ontario. During the field season, the Insect Rangers can be contacted through the district foresters' office.

Responsibilities:

1. In co-operation with the Department of Lands and Forests and the forest industries, to maintain a year-by-year survey of forest insect conditions in all forest districts of Ontario. This includes appraisal of the status of infestations, general assessment of injury and especially timber mortality of forest stands, caused by insects.

2. To carry out fundamental laboratory and field investigations relating to forest insects, including factors influencing population rise and fall, factors leading to susceptibility of forest stands to insect outbreaks, the role of parasites and disease as natural control factors and the possibility of preventing insect damage through direct, biological or silvicultural control methods.

3. Certain members of the staff, particularly those specializing in physical ecology, genetics and insect pathology, have responsibilities relating to insect infestations throughout Canada as a whole although most of their work is carried out in Ontario.

Information on the Forest Insect Survey is distributed to all interested parties as monthly or annual mimeographed statements, and once annually is incorporated with similar data for other provinces in the printed Annual Report of the Forest Insect Survey for Canada.

Information obtained in the technical investigations is made available periodically to co-operating organizations in mimeographed or interim reports, and is published from time to time in scientific, technical and trade journals.

PULP AND PAPER RESEARCH INSTITUTE OF CANADA

3420 University Street
Montreal 2, Canada

A Corporation under Federal charter. Under the joint support of:
Canadian Pulp and Paper Association
Department of Resouces and Development of Canada
McGill University.

Board of Directors consists of eleven members — three named by McGill University, two by the Dominion Government and six by the pulp and paper industry.

Chairman of the Board — R. L. Weldon
President — Dr. Lincoln R. Thiesmeyer
Director of Woodlands Research — A. Koroleff
Woodlands Research Associates — L. Holt, R. D. Collier

Woodlands Research Activities

Major work for about twenty years has centered around (a) graduate training of students for McGill doctorates in physical chemistry and cellulose chemistry, and (b) broad programs of both fundamental and applied research in pulp and paper manufacturing. Scope of the activities was broadened a few years ago by creation of a small Woodlands Research Division. It has worked on problems both in silviculture and in logging and in many other aspects of forest management.

Present projects include preparation of a book on WOODLANDS MANAGEMENT, experiments in PULPWOOD SKIDDING BY WIRE, studies of PULPWOOD SINKAGE and of CUTTING PRACTICES IN EASTERN CANADA. A cooperative project with the National Research Council and the companies on HOLDING GROUNDS has recently been accepted, and a study of CAMP HEATING is under review. A project for collaborative studies in APPLIED SILVICULTURE IN THE THUNDER BAY REGION is under consideration by the Institute, the Ontario Research Council and several companies having limits in that area.

Cooperative Contract Research Projects are now a major activity. Contracts are written with companies, groups of companies, associations or individuals in the industry and in allied industry to do specified work of either a research or service nature, the cost to be borne entirely by the requester. Such projects are done either on a confidential basis or completely open basis. The results and any patentable developments can be the property of the financial underwriter. This method is the most economical way to get the work done under some circumstances and it gives the company etc., that does not have and, perhaps cannot afford a research staff of its own, a way of enlisting the aid of experts.

The P.P.R.I.C., Woodlands Research Division, works in close cooperation with the Woodlands Section, C.P.P.A., with the Forest Products Laboratories of the Dominion Government and with many other agencies in the pulp and paper and allied fields.

RESEARCH COUNCIL OF ONTARIO

39 Queen's Park Crescent
Toronto 5, Ontario

President: Dr. R. C. Wallace, Principle, Queen's University, Kingston, Ontario.
Council of 11 members.
Director: J. O. Wilhelm.

Briefly stated the function of the Research Council of Ontario is to advise the Provincial Government on research, particularly in the natural and physical sciences and toward the end that our natural resources will be used most efficiently.

In co-ordinating research in the Province, the Research Council has taken thought for the special nature of research and works through and depends on advisory committees. These committees include representatives from Dominion and Provincial government departments, the National Research Council, the universities, the Ontario Research Foundation, and industry.

Advisory Committees are:

Aerial Survey Research
Agricultural Research
Fisheries and Wildlife Research
Forestry Research (Chairman Prof. J. W. B. Sisam. 32 Committee Members.)
Forestry Research Sub-Committees — Fire Control; Wood Chemistry; Forest Biology; Sawmilling Practice; Waste Slabwood Utilization.
Highways Research
Industrial Research
Industrial Waste
Mines, Minerals & Metallurgy
Soils

Research is being done by many agencies — Government departments, universities, the Research Foundation and industries. To fully utilize the potential in these agencies is the aim of the Council. This involves co-operation between Provincial and Dominion Government departments, industry, the universities, the Ontario Research Foundation and so on.

One of the main activities of the Research Council is the provision of scholarships for the purpose of encouraging promising graduates in the natural and physical sciences to continue research studies, with a view to developing in Ontario a corps of scientifically trained men and women who would provide the staff to carry on an expanding research program. $50,000 per year is distributed annually in scholarships to approximately 60 students to carry on their graduate work.

In industrial research as in other fields of endeavour, the Government is charged with the provision of general services for the community. The Research Council, in addition to supporting general programs in the basic fields of research which are directly and indirectly of benefit to industry within the Province, has considered the immediate requirements of industry, in particular the small industry, in co-operation with the Canadian Manufacturers' Association, the Ontario Research Foundation, the Trade and Industry Branch of the Department of Planning and Development and others. The Industrial Research Services Division of the Ontario Research Foundation was initiated as a result of representations made to the Research Council. Last year 3,627 questions were answered for industry. 867 of these questions resulted in laboratory work.

A group research plan has been developed by which research is done in co-operation with two or more industries from within a special field of industrial activity on a 50 - 50 basis. Several projects under this plan have been carried out with marked success.

UNIVERSITY OF TORONTO — FACULTY OF FORESTRY

Toronto, Ontario

Dean — J. W. B. Sisam, B.Sc.F., M.F.

Members of the Faculty of Forestry:

J. W. B. Sisam, B.Sc.F., M.F. — Professor of Forestry
J. H. White, M.A., B.Sc.F., Ph.D. — Professor Emeritus of Forestry
T. W. Dwight, B.Sc.F., M.F. — Professor of Forestry
R. C. Hosie, B.Sc.F., M.A. — Professor of Forestry
D. V. Love, B.Sc.F., M.F. — Assistant Professor of Forestry
A. S. Michell, B.Ss.F. — Assistant Professor of Forestry
A. D. Hall, B.Sc.F. — Lecturer
F. G. Jackson, B.Sc.F. — Senior Tachnician
J. A. C. Grant, B.Sc.F. — Instructor

The Forestry course is designed to give basic training to who wish technical employment in the various governmental services or in the primary and secondary wood-using industries allied fields. The scope of the course is broad in order that graduate may readily adapt himself to the varied problems of profession.

The training in Forestry is divided into lecture, laboratory, field work which has to do with the establishment, protection care of forests; the measurement of trees and timber stands; veying and mapping of timber lands; and the cutting, measure and use of the final wood products.

In addition, however, in order that the graduate may be fitted to enter broad fields of employment, selected courses given by the Faculties of Arts and Applied Science and Engine

The maximum number of undergraduates registered in Faculty in any one year prior to 1939 was 70. As a result large number of veterans coming into the Faculty after the this total rapidly increased to a maximum of 303 in 1948-4 the veteran requirements have very largely been taken care o number has now dropped off, and for the present session the number of undergraduates is 194. However there are indica that this total will remain considerably larger than that previo 1939, as there are now many more students entering the Fa direct from High School than ever before. It may be of inter note that for the five-years ending 1951 there will have grad from this Faculty a total of 296 compared with a total of 31 the 40 years previous — that is since the Faculty was establish 1907. Despite the large numbers of undergraduates and gra in this and other Canadian forestry schools the employment o esters has been very well maintained.

Up to the present time the four-year-course given in **Faculty** leading to the degree of B.Sc.F. has been the same f students — a general course giving a common background o estry training. It is now felt that a certain amount of specializa in the Fourth Year is desirable, and plans are now going fo to provide a limited number of optional subjects in the main of forestry interest. This is in keeping with the increaed tre ward specialization in forestry to-day.

Also, until quite recently Canadian forest schools have concerned only with undergraduate training, and any of the uates who wished to take special courses had to go to the States or Europe. Steps are now being taken in this Faculty to p opportunities for postgraduate work and research. At the p time emphasis in his regard is being given mainly to work in culture, management and forest economics. There are six stu registered for the degree of M.Sc.F. during the present session

LAKEHEAD TECHNICAL INSTITUTE

Port Arthur, Ont.

Established January, 1948, by the Department of Education, vince of Ontario.

Administered by Advisory Committee responsible to the De- tment of Education.

Officers of Administration

Hon. Dana Porter, Minister of Education, Province of Ontario.

The Board

L. S. Beattie, Chairman, Director of Vocational Education, Province of Ontario.
R. N. Johnston, Chief of Research, Department of Lands and Forests, Province of Ontario.
H. H. Kerr, Director of Technical Institutes, Province of Ontario.
M. W. Bartley, Secretary, Principal, Lakehead Technical Institute.

The Advisory Committee

A. V. Chapman, Chairman.
M. W. Bartley, Secretary.

Arts and Applied Science

Six members.

Forestry

D. A. Clark, Port Arthur — H. L. Moffatt, Port Arthur
P. V. LeMay, Port Arthur — F. L. Stevens, Port Arthur
A. L. K. Switzer, LongLac

Mining

Four members.

Commerce and Accounting

Two members.

Courses

1st year Arts and Commerce (Toronto, Western, Queens, Manitoba)
1st year Applied Science (Toronto, Queens, Manitoba)
1st year Forestry (Toronto)
1st year Forest Engineering (British Columbia)
2nd year Technical Forestry Course
2nd year Mining Course
Special Evening Courses

Forestry Faculty Members

C. John Campbell, B.Sc.F.
Philip C. Pollock, B.Sc.F.

The Forestry course at Lakehead Technical Institute offers ng men who have an Ontario Grade 12 education or equivalent who while engaged in a forest industry display a desirable apt e to forestry work, an opportunity to attain further technical wledge. The training syllabus which has been drawn up with dance from the Advisory Committee is designed to provide grad- s with a basic knowledge of Forestry which will better fit them the career of their choice.

Steps are now underway to provide a permanent forest area to erect suitable buildings thereon so that the present field schedules can be extended.

During the 1950-51 session the Forestry students received 56 field training; visited five local forest enterprises; received nty-seven lectures from specialists with the Department of Lands Forests and local woods operating companies.

Forestry staff at the Institute are assisted by Industry Special- and Department of Lands and Forests officers lecturing on log- methods, etc.

School forest on limits of the Brompton Pulp and Paper Co.

Note: It is expected that the name will be changed to the ehead College of Arts and Science.

ONTARIO FOREST RANGER SCHOOL

Near Dorset, Ontario
Advisory Council

Peter McEwen — Chairman

. McMillen
illies
. K. Harkness
. Hosie
R. N. Johnston
T. E. Mackey
J. B. Matthews
P. O. Rhynas
J. Ruxton
J. F. Sharpe
E. L. Ward

Director of the School — Peter McEwen, B.Sc.F.

The Ontario Forest Ranger School is under the joint adminis- on of the Department of Lands and Forests, Province of Ontario, the Faculty of Forestry, University of Toronto, and is located the centre of the University Forest, about eight miles south of village of Dorset on Highway No. 35, in the county of Haliburton, Ontario.

The University Forest comprises about eighteen thousand acres and offers a variety of forest conditions suited to training in forestry work.

Purpose of the School

The primary purpose of the school is to train personnel for the Ontario Department of Lands and Forests, and the Forest Industries of the Province, and, to co-operate with the University of Toronto in providing field experience for students of the Faculty of Forestry. In addition, the School has placed at the convenience of other kindred or allied organizations, which had the approval of the Advisory Council, its facilities for their use at times that did not conflict with the regular work of the School.

Scheduled Courses

Forest Rangers (First Term)
Guides
Faculty of Forestry, Undergraduates
Forest Rangers (Second Term)
Teachers' Conservation
S. P. S. Engineers
S. P. S. Architects
Forest Rangers (Third Term)

THE CANADIAN INSTITUTE OF FORESTRY

Formerly The Canadian Society of Forest Engineers)

President..... — R. E. Balch
Secretary Treasurer — D. V. Love, 10 Manor Road West, Toronto, Ont.

Executive of 11, one from each

Maritimes — Southern Ontario — Northwestern Ontario
Quebec — Central Ontario — Prairie Provinces
Ottawa Valley — Northern Ontario — Rocky Mountains
Vancouver — Vancouver Island

Publishes the Forestry-Chronicle — a Technical Journal, Published Quarterly.

Editor and Chairman of the Editorial Board — K. G. Fensom.

The C. I. F. is an organization of graduate Foresters and men engaged in forestry work who through their services display a knowledge and quality of of character in keeping with the ethics of the Institute. The membership of the society consists of three classes: Honourary members, Members, and Affiliate members.

Further information on this subject may be obtained from Mr. D. V. Love or Mr. F. Lyon.

The purpose of this organization is to further Forestry in Canada.

Standing Committees of the Institute are:

Forest Entomology and Forest Pathology
Forest Fire
Reforestation
Silviculture
Surveys
Wildlife
Woodlot Management
Wood Utilization

Northwestern Ontario Section

Chairman — C. J. Campbell
Vice-Chairman — P. J. Ward
Secretary — F. Lyon, c/o Dept. of Lands and Forests, Port Arthur, Ont.
Committee Members — F. L. Stevens, R. Boultbee, Ken Hearnden

FOREST PRODUCTS INSTITUTE OF CANADA

27 Goulbourn Ave.
Ottawa, Ontario

President — J. W. B. Sisam
First Vice-President — T. A. McElhanney
Second Vice-President — A. D. Macpherson
Directors — Loren Brown, A. R. Colman, W. J. LeClair, Dr. J. Risi, K. O. Roos, H. E. Videto
Secretary — W. Forbes LeClair, 27 Goulbourn Ave., Ottawa, Ont.

The Forest Products Institute of Canada, which held its first general meeting in Ottawa in October, 1950, has been organized to help in promoting the proper utilization of the forest wealth in Canada. Its main objectives as set out in the Constitution are:

(1) In general to encourage and promote the efficient utilization of wood and other forest products.

(2) To facilitate the interchange of information between individuals and organizations interested in forest products utilization, research, development, administration and teaching by (a) sponsoring meetings for the presentation and discussion of reports, papers and the interchange of ideas; (b) the distribution of information through publications and the press; (c) increasing co-operation between interested persons and organizations.

THE CANADIAN PULP & PAPER ASSOCIATION

2280 Sun Life Building
Montreal 2, Canada

Chairman of the Executive Board:
D. W. Ambridge, President, Abitibi Power & Paper Co. Ltd.
Two Vice-Chairmen, two honourary Vice-Chairmen and twenty-three members of the Executive Board.
President —- R. M. Fowler.

Matters of local interest to British Columbia members are dealt with by a Western Board of the Association which operates under a Chairman and Executive Committee appointed by these members.

PRINCIPLE SECTIONS:
Technical
Woodlands
Industrial Relations
Traffic

TRADE SECTIONS:
Chemical Pulp
Mechanical Pulp
Board
Books and Writing
Speciality Papers
Wrapping Papers

Woodlands Section

Chairman — G. Godwin
Executive Council of 12 members
(Member from Northwestern-Ontario — W. B. Southon)
15 Technical Committees
Manager — W. A. E. Pepler
Ass't Manager — W. D. Bennett
Mechanical Engineer — B. J. McColl
Membership — Senior 483 members
Junior 89 "
Associate 179 "
Affiliate 82 "
Student 30 "

This Section serves Woodlands personnel in manner similar to the service rendered mill personnel by the Technical Section. Through the efforts of its committees and manager, the Section keeps Woodlands operators informed on logging, silviculture and forestry techniques. There is a series of publications prepared by the Section dealing with problems of wood growth, protection and production. Meetings are held each year at which there are papers presented and discussions. The summer meetings usually take the form of practical logging, forestry and machinery demonstrations.

Text books covering the various phases of forestry practice and of opeations such as the design and layout of camps, the feeding of men, cutting, skidding, hauling and reference material, including the use of moving pictures as a visaul aid to training, is continually being added to with information derived from current researches and studies.

A special division of this Section is that of Woodlands Mechanization. Its function is to stimulate the use of mechanized methods in Woodlands operations by studying and reporting on the application of methods of mechanization to wood productin and delivery. New methds involving the use of machinery by member companies are reported on. Suggestions for improvement in design and application based on test or actual experience are made to machinery manufacturers and to Woodlands operators. New machines are studied and, when desirable, provision can be made for developing new ideas in design. This activity is financed by a special assessment paid by all member companies who consume wood.

Another function of this Section is to keep in touch with and assist in planning the programme of work in the Woodlands Research Department of the Pulp and Paper Research Institute of Canada. Contact is also maintained with government and other bodies conducting research in forestry (including those in the field of Entomology and Pathology).

CANADIAN LUMBERMEN'S ASSOCIATION

"Timber House," 27 Goulbourn Avenue
Ottawa, Ontario

Executive Officers, 1951

President — Roland Bock, Montreal, Que.
1st Vice-President — K. O. Roos, Tee Lake, Que.
2nd Vice-President — Roy Halliday, Toronto, Ont.
Secretary-Manager — W. J. LeClair, Ottawa, Ont.

The Canadian Lumbermen's Association was incorporated and granted a Dominion Charter in 1907. Its role is "to promote the interests and to safeguard the rights of all those who are engaged in forest exploitation or in the manufacturing, sale and distribution of commercial woods."

The "C. L. A." as it is familiarly known, is made up of six autonomous bodies each having its own chairman and representatives on the C. L. A. Board of Directors. These representatives are three in number and are supplemented by the Chief Executive Officers of the Association and regional representatives from New Brunsw Nova Scotia and Manitoba. Rounding out the Board are repres atives of exporters to the United Kingdom and United States wh salers.

The six groups comprising the Association are:

The White Pine Bureau
The Canadian Hardwood Bureau
The Canadian Spruce Bureau
The Wholesale and Export Bu
The Retail Lumber Bureau
The Woodworkers Bureau

Many members of the Exectuive Committee as well as Manager sit on most of the important committees of both Fe and Provincial Governments. The Association's field of acti extends as far as the United States and England. It has offi grading rules for White Pine, Spruce and Hardwood flooring an accredited inspectors are available to all lumbermen.

The C. L. A. publishes a monthly magazine, TIMBER Canada, as a spearhead of its public relations and trade progra In addition, it maintains a national advertising campaign in le home building publications.

THE CANADIAN FORESTRY ASSOCIATION

4795 St. Catherines St. W.
Montreal, P.Q.

President — D. A. Gillies, Braeside, Ont.
Seven Officers and thirty-five Directors.
General Manager and Secretary — J. L. Van Camp.
Branches in all Provinces.

THE CANADIAN FORESTRY ASSOCIATION OF ONTARI

229 College St.
Toronto, Ont.

President — J. W. B. Sisam, Dean of Forestry, University of Toronto.
Executive — 26 directors representing regionally, each section of Ontario.
Secretary-Manager — W. S MacDonnell

Canadian Forestry Association of Ontario is a non-profit political organization whose primary purpose is to demonstra necessity of conserving our natural resources. For this purpo Association operates two full-time lecture tours, each conduc a graduate Forester. These Conservation Lecturers tour the pr giving talks and showing 16 m.m. films suitable to the r interest in conservation. A 16 m.m. motion picture lending l of over 50 conservation films, is available to those desiring this library.

Working through news releases to newspapers, magazin radio stations; the C. F. A. magazine "Forest and Outdoors through contacts with the Provincial Government, schools, groups, community and business organizations, the Canadi estry Association of Ontario is endeavouring to create a attitude of determination that our heritage of woods, water life and soil, while being profitably utilized today must b and permanently sustained for the generations to come.

THE LUMBERMEN'S SAFETY ASSOCIATION — ONTA

Head Office: 30, 31 and 32 Fraser Building, Ottawa, O
Northwestern Ontario Office: 10-6A Court St., Port Arthur,

Executive consists of 13 Directors.

Officers

President — J. W. McNutt
Vice-President — G. H. Potts
Secretary-Manager — W. S. Barnhart, M.D.
Chief Inspector — C. S. Smith
Inspectors — J. J. Chilcott
D. C. George
R. E. Hazlewood
G. I. LaRochelle
A. R. White (Northwestern Ont

Authorization

Authorized by Ontario Charter and by the Workmen' pensation Board of Ontario.

Objectives

To promote and carry on the work of Accident Preve the Lumbering, Pulpwood and related industries in the Pro Ontario, who are assessed in Class 1 by the Workmen's Co tion Board.

Activities

Preparation and distribution of Educational Articles, Booklets, Posters, etc., dealing with the Prevention of Accid First Aid to the Injured.

Tabulating and distributing data received from the W

(Continued on Page 18)

"Imagine- delicious milk ready anytime- as low as 55¢ a gallon!"

The ideal milk for camps

Have good-tasting milk on hand all the time for better camp meals by using . . .

TRUMILK, whole milk in handy powder form. Just add TRUMILK to water, mix, to have full-nourishment milk for drinking and cooking . . . at as low as 55c a gallon!

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Hand mixer at cost-$25.00!

Now camp cooks can mix TRUMILK in quantity with Borden's effort-saving hand mixer.

The mixer stores and dispenses as much as 5 gallons of reliquefied TRUMILK. It has cut-bronze gears for long wear, heavily tin-plated steel container, and a sanitary outlet.

To help camp operators use TRUMILK more economically, Borden's supply this mixer at cost—$25.00 plus freight. Measuring scoop and mixing charts supplied free.

Order TRUMILK, and Borden's new powdered milk mixer from your nearest distributor. 2½ gal. mixer specially priced at $19.00, plus freight.





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Winnipeg, Manitoba.

A. H. BRADBURY
13 North Wharf
Saint John, N.B.

(Continued from Page 16)

Compensation Board relative to Accidents which have happened and cost summaries thereof.

Preparing and photographing a series of coloured motion pictures dealing with Accident Prevention and the knowledge of First Aid to the injured.

Travelling a yearly average of 120,000 miles in all parts of the Province for the purpose of making an annual average of:

1200 Sawmill Inspections, suggesting recommendations for additional safeguards and safe working methods.

300 visits to Logging and Pulpwood camps to observe working methods and equipment and make recommendations for additional safety of workmen therein.

2500 Calls at Employers' head offices to stimulate interest in accident prevention and Firts Aid, to formulate methods of accident prevention, to discuss accidents which have happened and to assist in the formation of plant safety committees.

400 visits to operations to investigate causes of specific serious and fatal accidents and to formulate measures to prevent recurrence.

75 Safety meetings with attendance of 12,000 persons, held at Lumbering centres and camps throughout the Province at which safety talks are delivered, accident prevention is discussed and Coloured Motion Pictures with commentary are exhibited.

Assisting generally in the formation of classes in First Aid instruction singly or collectively under the auspices of members of the medical profession.

Assisting where necessary in job placement of workmen who have suffered disability in the industry.

THE ONTARIO PULP & PAPER MAKERS' SAFETY ASSOCIATION

330 University Avenue
Toronto, Ontario

President — L. T. Bradley
Secretary-Engineer — D. B. Chant

Authorized by Ontario Charter and the Workmen's Compensation Board.

Promotes accident prevention in the pulp and paper mills and the woodlands departments of these in the Province of Ontario who are assessed in Class II by the Workmen's Compensation Board.

Northwestern Ontario (Woods) Branch
Ontario Pulp & Paper Makers' Safety Association

Honorary Chairman — H. P. Klinestiver
Chairman — J. Currie
Secretary — G. K. Eoll

Meets quarterly in different localities in Northwestern Ontario.

ONTARIO FOREST INDUSTRIES ASSOCIATION

159 Bay Street, Toronto 1, Ontario
Branch Office: 3 Woolworth Block, Port Arthur. Ont.
President — K. O. Roos
Vice-Presidents — M. Cochran, C. B. Davis
DIRECTORS

Representing the Pulp and Paper Producers or Operators

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K. O. Roos	Booth Lumber Limited.
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R. J. Prettie	Northern Wood Preservers Limited.

Representing the Pulpwood Exporters or Independent Operators

R. V. Perry	Arrow Timber Company Limited.
W. H. Nasi	Driftwood Lands and Timber Limited.
M. Cochran	Hammermill Paper Company.
H. S. Mosher	Newaygo Timber Company Limited.
H. H. Styffe	Oscar Styffe Limited.
E. V. Woollings	E. V. Woollings

Secretary-Manager — C. R. Mills
Branch Manager — T. S. Jones

Letters Patent were issued by the Provincial Secretary under date of May 19th, 1943, and the first meeting of the Board of Directors was held May 3

The purposes and objects of the Association w is a non-profit organization are:

(a) To exchange ideas and consult as to the methods of operating forest lands and the prod thereof and as to the best methods of conserving protecting the forests and industries connected th with in the Province of Ontario and any part there

(b) To formulate and insure co-operative a between the various forest owners and operators, Provincial Government and the general public;

(c) To represent all corporations, partnerships persons owning or leasing timberlands who shall become members in the Association in matters of eral interest pertaining to forest industries;

(d) To act as a clearing house of ideas and ances for all owners and lessees of forest lands;

(e) To promote legislative and educational ures to conserve forest resources.

(f) To take and otherwise acquire and hold in any other corporation having objects altogethe ilar to those of the Association; and

(g) To deal with all matters of general in concerning the protection of the forest against fi against insects or blights of any kind or conc forest legislation and regulations, or concernin operation of forest lands, dams, river rights, c tenures, taxation, classification of lands or coloniz or concerning manufacturing of forest products, powers, lumber sales, freight rates, shipping, ta of manufacturers, or of the products thereof, o cerning labour in the forest and in the mills, com tion to injured workmen, census and statistics c with any phase of the forest industries or of the ucts thereof, or concerning legislation in general ing the forest industries directly or indirectly.

Membership is limited to persons, firms, p ships or corporations owning or holding in fee or licence or possessing cutting-rights upon forest in the Province of Ontario.

Since its formation the Association has bee active in connection with labour supply, legislat fecting woods labour and that affecting the a tration of the forests of the Province in general.

Particular attention has been paid to such as log-scaling, forest insect damage, forest fire tion, wage rates, unemployment insurance, ho work and vacations-with-pay for woods worke Ontario Royal Commission on Forestry, immigrat lump-sum licenses.

Considerable interest has also been taken education of young men for forest work and a s ship in Forest Entomology has been establisred University of Toronto.

The 59 members of the Association hold rights on 70 per cent of the area of forest lan is under lease or concession agreement in Onta

—o—

THE PULPWOOD SALVAGE ASSOCIATION

(Lake Superior and Tributaries)
3 Woolworth Block, Port Arthur, Ontario

President — M. Cochran
Vice-President — H. S. Mosher
Secretary-Manager — T. S. Jones

This Association was first formed in 1938 "for th of policing and distributing ownership of pulpwood s the Thunder Bay District." This area was later extend clude all of Lake Superior and Tributaries, and any comp tows, rafts, stores or loads wood in these waters is e membership.

Contracts are let covering areas of shoreline and chantable wood — pulpwood and logs — is salvaged.

UNDER BAY TIMBER OPERATORS' ASSOCIATION

3 Woolworth Block
Port Arthur, Ont.

President — H. H. Styffe
Vice-President — A. J. Auden
Executive Members — M. Cochran
A. M. Jones
H. P. Klinestiver
H. S. Mosher
W. B. Southon
Secretary-Manager — T. S. Jones

The organization of operators in Northwestern ario that eventually developed into the forming of Association started in April 1941 when the Industrial dards Act Advisory Committee was formed. In 2 this committee was superseded by the Thunder Bay Advisory Committee to the Regional War Labour Board of Ontario. In April 1944, The Thunder Bay Timber Operators' Association was formed and in 1947 the Association employed a manager and staff.

The name — Thunder Bay — is somewhat of a misnomer as the territory covered by member companies is the area commonly known as Northwestern Ontario — the area from the Algoma Central Railway on the East to the Manitoba boundary on the West.

The Objectives of the Association are:

To deal collectively with any and all matters of general interest and welfare to the Timber Industry of Northwestern Ontario and to co-operate with the Ontario Forest Industries Association and or any party or organization interested in the betterment of the industry and its problems.

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.



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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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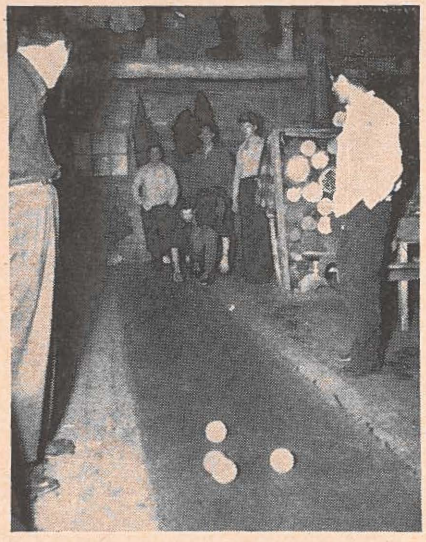
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From the Bush Padre, Rev. J. E. Paterson



A Carpet Bowling Game under way

Again it has been my privilege to spend the past fall and winter working and visiting in the cutting camps of the Black Sturgeon area. May I take this opportunity to express my appreciation to you and to all camp personnel who were interested in and contributed to this endeavour.

One of the outstanding achievements of the winter was to get many old and young bushworkers actively competing in carpet bowling. This game is best described as indoor curling on a carpet with balls. instead of rocks. Since it could be rolled down the center of a bunkhouse if no recreation hall was in camp it could be played in every camp and thus provided many interesting evenings. There is a noticeable lack of opportunity for off-hour activity in most camps. Of course there are many reasons for this and the general attitude seems to have gravitated to indifference. Nevertheless it has been my experience that where some forms of recreation were tried and given a fair chance, the response on the part of the men sufficiently justified the effort. There are no insurmountable reasons why camp recreation committees could not function in most bush camps.

The arrival of immigrants in many camps created new situations and new problems. The Community Programmes Branch of the Department of Education is very much concerned about providing opportunities for these New Canadians to learn the English language. I found many men willing to act as instructors, and these men rendered a valuable service in helping the Canadians to get a start on their task of re-loc themselves as Canadian citizens. The ideal of the b erhood of man, best expressed in the teachings of J can have real practical meaning when men of racial and religious origins are brought together common task.

I made it a practice to hold a service of wo whenever and wherever it seemed like a good thi do. The response varied from camp to camp and time to time . . . . but there very definitely was sponse. It is the 'responses', although small at t to what little recreational, educational, and reli opportunities that were provided that makes me a great deal more could be undertaken in the camps in our country. The interest is there, and a seed it needs to be cultivated. And although attempts in this direction may be discouraging, or like wasted time, effort and money, nevertheless, still the men who make the industry possible, and are people with social and spiritual needs.

It was "we, the people" to whom Jesus re when he said to Simon Peter, "Loveth thou me? my sheep."

SHANTYMAN'S MISSIONARY SAYS "THANK

To my many friends in the camps, thank yo your help in my getting to and from the camps past winter months.

The camps are places where men work and hard, and to make these men different owing to environment, from what they are, would be out question, with their careless disregard for dange carefree manner working in life, and with death at hand, they work and labor out their existence little fear. The average bushman would never be a lounge lizard.

"Herein is love, not that we loved God, bu He loved us, and sent His Son to be the propi for our sins." 1 John

"There is a fountain filled with blood,
Drawn from Emmanuel's veins.
And sinners plunged beneath that flood
Lose all their guilty stains."

"I do believe, I will believe,
That Jesus died for me;
That on the Cross He shed His blo
From sin to set me free."
Sincerely in His service,

J. H. Allen,
Shantyman Missiona

GS INSECTS BUGS INSECTS

Read about the larch (tamarack) saw-fly attack on forests on page 24. An article about the spruce worm will be in the next issue.

A description of the responsibilities of the Forest ect Laboratory and the Laboratory of Insect Pathgy, Sault Ste. Marie, is included in this issue (Page

Forest Insect Rangers are stationed throughout tario each Summer and are helped considerably by h the Department of Lands and Forests and woods rators in their work. In addition to permanent sample ts being established in districts, the Laboratories and rangers are assisted in their work by samples subted by both Department and woods operators' pernel. Last year insect collections from all sources by ions were:

Northern Region	1,207	collections
Central Region	2,522	"
Mid-Western Region	547	"
Western Region	1,206	"

Co-operators frequently question the value of the all number of insect collections they make individly. Obviously one co-operator's collections would conute a small sample of the insects which occur in the usands of square miles of forests in Ontario. How-r, when 460 co-operators representing every forest trict in Northern Ontario submit 1,524 insect coltions, as was done in 1950, the total sample does ome worthwhile.

Establishment of permanent sample plots for examtion by forestry personnel has stepped up interest co-operation in many districts. Six hundred and en collections were made in 97 permanent sample nts in 1950. Progress in this phase of co-operation been good and should help to stabilize insect samp- at a high level in Ontario in the future.

Discs from trunks of poplar trees were submitted the Insect Laboratory from several points in the gion in 1950 for a study of the annual growth to ermine the effect of forest tent caterpillar defolia- on the annual increment and to determine the time location of past outbreaks. These are being studied.

Mass collections of important insects were submitfor the study of insect parasites and disease microanisms, and establishment of population density.

U TOO CAN HELP

Collecting boxes or mailing tubes are supplied by Forest Insect Laboratory or your District Forest In- Ranger. When you see trees showing signs of destive insects, make a collection. Spread a tarpaulin blanket beneath the tree to be examined and hit the nk hard several times with the back of an axe. Insects in the tree will fall on the canvas and spiders, ants, wasps and known insects can be disposed of, and any known or suspected harmful insects put into the mailing tubes along with some foliage from the tree to provide some food for the journey and the tubes mailed to Sault Ste. Marie. Later the sender will receive a report from the laboratory giving him, as far as is known, the identity and other data on the insects found.

If you are stationed in the bush, help out!

There are more cattle, sheep and lambs but fewer horses on Canadian farms last December 1st than a a year previously. The number of horses has declined steadily since 1942.

—Quick Canadian Facts.

"JOE BEAVER" **By Ed Nofziger**



Forest Service, U. S. Department of Agriculture

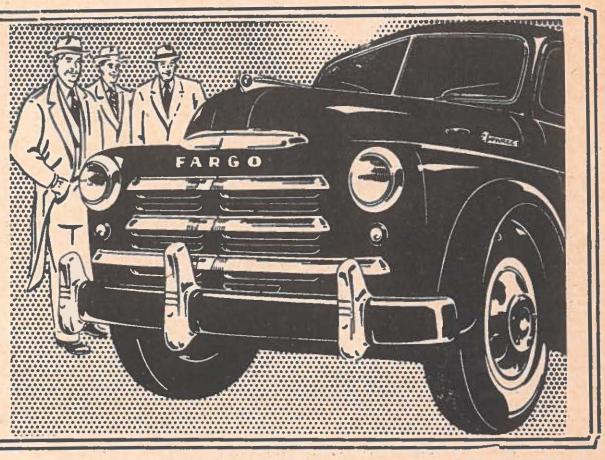
"You mean to say that little bittie bugs like that can cause as much timber damage as fire?"

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BOMBARDIER SNOWMOBILES — CHRYSLER MARINE ENGINES
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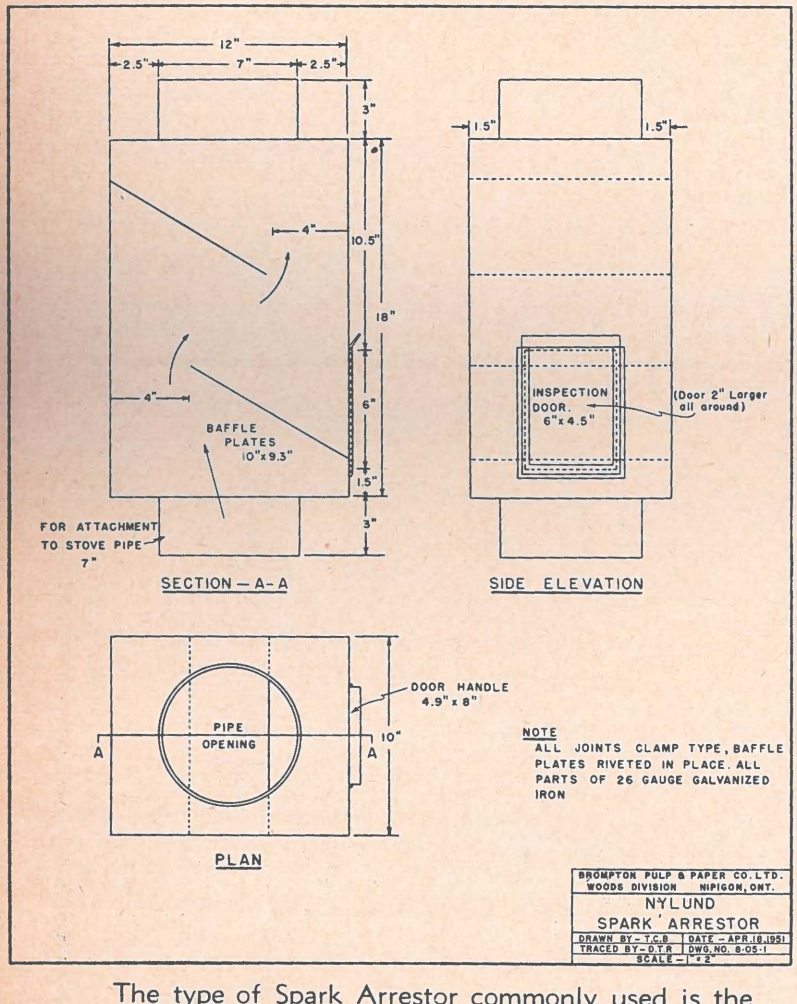
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THE NYLUND SPARK ARRESTOR

By N. Nylund
Brompton Pulp & Paper Co. Ltd.



The type of Spark Arrestor commonly used is the screen type, which has not been too satisfactory. The screen plugs up with soot, and must be continually cleaned out to function properly. The tendency is to remove the Arrestor rather than clean it, but if cleaned the screen is easily broken and replacements are frequent.

The "Nylund" Spark Arrestor uses the principle of two parallel inclined baffle plates, alternately spaced in a section of pipe (see drawing). The smoke in travelling up through the Arrestor strikes the first baffle, curls around the end of it, strikes the second baffle curls around the end of this one and proceeds up and out the pipe. All the smoke thus strikes one baffle or the other, or both, as it is impossible for any of the smoke to travel straight up the pipe. When the smoke rises against the baffle, the sparks, being heavier, drop down into the stove or on the baffle below. A slide door opposite the baffles facilitates cleaning off the soot at the end of a season, or oftener if desired.

This Arrestor was tried out extensively last summer and this past winter. Severe tests were carried out including the burning of newspapers, dry spruce and jack-pine brush, as well as bone-dry kindling. Some of the tests were made at night, so that any escape of sparks could be more readily observed. In none of the tests, or at any time during its use, was any spark seen to escape.

This Arrestor can be installed directly on the stove, between any joint of the stove pipe, or on top of the roof jack or patented chimney. The Arrestor also acts as a heat saver if placed inside the building. Th in most cases, it will be advisable to place the A about one length above the stove, and it can be winter as well, solely for its heat saving benefi kitchen stoves, in summer, it could be installed on the roof jack to avoid overheating the kitche

It was observed last winter that by leavi clean-out door open slightly, there was practic creosote formed on the inside of the pipe, as happens, even when green wood was burned. This be considered another use for the Arrestor.

The design shown is for a 7" pipe, but of co Arrestor could be made for any size pipe. The quisite is that the area of the space between the and the side of the Arrestor equals, or prefer slightly more, than the cross-sectional area of th pipe being used. The Arrestor could also be made if desired, as long os this passage for the smoke ficient.

The only possible disadvantage noticed so that it should be wired to the roof when insta the roof jack. But as it does not have to be re during the fire season for cleaning, this is not a objection. Also the round type Arrestor would less wind resistance.

The "Nylund Arrestor" can be made by a smith. The original cost will be a little more th screen type Arrestor, but its life should be many longer, and its effectiveness much greater.

LOG BOOK so that credit may be given Mr. Nylund).
(NOTE: If you use this Spark Arrestor write the Editor

THIS IS CENSUS YEAR

A Census will be made of all persons resid Canada starting June 1st.

In the case of bush camps, enumerators w all camps and interview everyone resident in the On arrival at the camp, the enumerator will cont Camp Clerk and obtain a list of all residents camp. The enumerator will proceed with the int trying to not interfere with the work of any per

Here are a few facts about the census as in the Royal Bank of Canada Monthly Lette March 1951.

"The census is not a stunt, but a necessity. country's equivalent of the merchant's stockta of the private person's inventory to learn what i he should carry on his house and chattels. Th to be counted in the census are our people and ious attributes that make them different from p other countries.

It is nothing new to require that people s periodically to be counted. The census goes ba years in Babylonia and China, and three or four t years in Egypt and among the Children of Israe one in Canada needs to feel miffed because a m asking questions.

Credit of taking the first census of moder belongs to Canada. The year was 1666; the ce that of the Colony of New France. It was a r every person by name, on a fixed date, showing sex, place of residence, occupation and conjug tion. There were 3,215 persons listed.

Census facts are not public property.

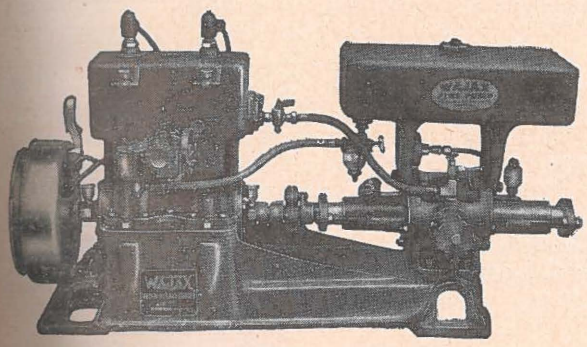
In Canada, the answers given by indivi census questions are absolutely confidential. Ev loyee of the census is bound by a special

(Continued on Page 27)

All Across Canada

It's "WAJAX"

By Popular Acclaim for FIGHTING FOREST FIRES



. . . from Newfoundland to British Columbia the WAJAX PORTABLE SELF-PRIMING High Pressure PUMP is on the job fighting destructive forest fires. They are used by various Government Departments, Pulp and Paper Companies, Forest Protection Associations, etc. . . the most widely used forestry pump in Canada. The WAJAX is light in weight . . . simple in design . . . dependable . . . economical . . . and has abundance of power . . . instantaneous self-priming up to 22 feet. Economical in fuel consumption. Under heavy load conditions, the unit consumes only .75 or ¾ gallon per hour, resulting in a considerable saving both in fuel cost and in the transportation of the necessary quantity of fuel into the bush.

Normal operating speed of the WAJAX pump is 1,200 to 2,800 r.p.m., thereby reducing operating and maintenance costs to a minimum.

Maximum Pressure: over 200 lbs. per square inch.

Maximum Discharge: over 65 Imperial gals. p. m.

Weight: complete with gas tank, 75 lbs.

Also . . .

WAJAX Double-Weft Long-Line Linen HOSE stands pressures up to 1000 lbs. per square inch.
Sizes — 1" - 1½" - 2" - 2½" - 3"

HAJAX — Semi-portable centrifugal pump.

JACKO — general purpose 2" and 3" pump.

JACKMITE — light-weight portable pump.

FLAMEBUSTER — high velocity nozzle.

DRENCH — wetting agent.

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"One match can destroy a million trees!"

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The Larch (Tamarack) Sawfly Outbreak in Northwestern Ontario

J. E. MacDONALD and H. R. FOSTER

The European larch sawfly, **Pristiphora erichsonnii,** is probably the most injurious pest of larch trees in North America. Separated in North America from its native parasites, the insect has occurred in at least three major outbreaks in the past 70 years on this continent. The first outbreak apparently originated in the New England states about 1880. From there it spread rapidly north and west across United States and Canada. By 1910 most of the mature larch stands in the eastern part of the continent were killed. The destruction of larch stands was so thorough in Ontario that only occasional mature isolated trees survived.

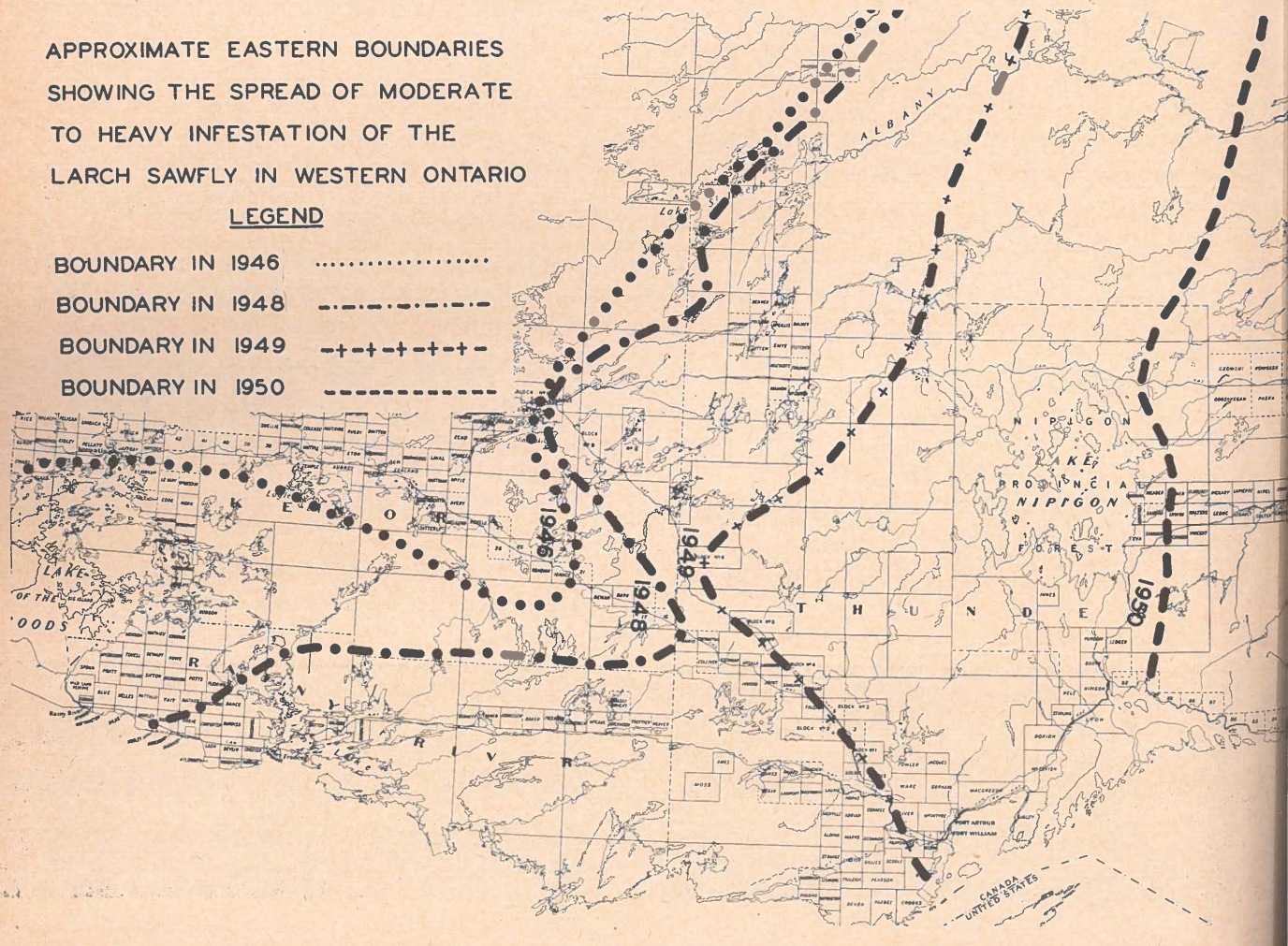
In recent years heavy infestations have again built up in stands of 50- to 60-year-old larch in Northwestern Ontario. An increase in populations of the insect was observed between Kenora and Dryden in 1944 and heavy infestations occurred in scattered larch stands in this area in 1945.

Simultaneously, farther north a heavy infestation developed in the Goldpines-Uchi-Red Lake area; and, to the south, the nucleus of a heavy infestation formed in several townships northwest of Fort Frances. In 1946, 100 per cent defoliation of most of the larch stands occurred in the first two of these areas. Between 1944 and 1948 the majority of larch stands in the Siuox Lookout, Kenora and Fort Frances districts were infested. By 1950 heavy infestations were observed eastward to Lake Nipigon. Field observations indi the outbreak will continue to spread to the eas Nipigon.

Infestations abated somewhat in that wes of the Sioux Lookout and Kenora districts Many larch stands which had been almost 100 defoliated for four or five consecutive years proximately 70 per cent defoliated in 1950. companying map shows the approximate b within which medium to heavy infestation oc 1946, 1948, 1949 and 1950. Since larch st widely distributed in pockets, accurate delin boundaries is not possible.

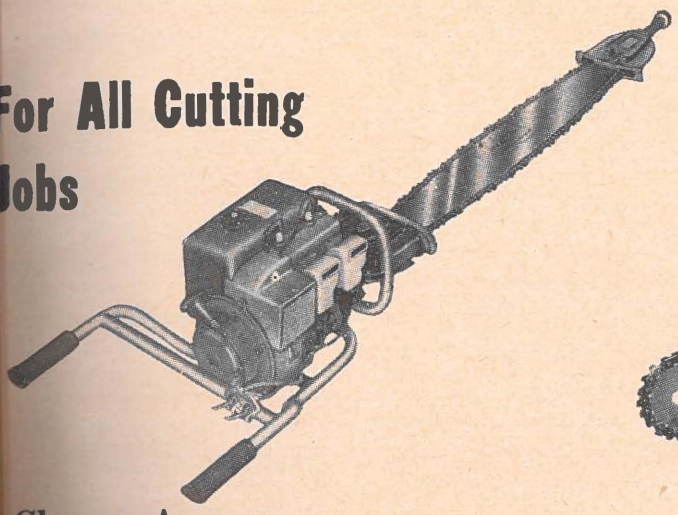
Thus far, larch stands in Northwestern Ont survived the outbreak. Very little informa would be helpful in predicting the future resi the trees can be gleaned from the history of breaks since reports of mortality are fragmenta which was killed in a short period of years af in Ontario was mostly mature in contrast with ceeeding, young, vigorous stands which have fested in recent years. No mortality which can buted solely to larch sawfly attack has been ob Northwestern Ontario where heavy infestati occurred since 1945. Mortality of occasional la

(Continued on Page 26)



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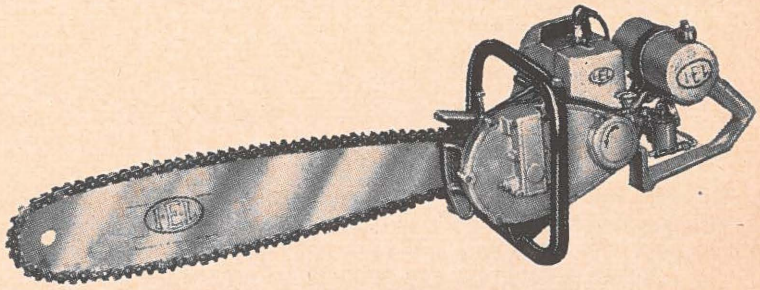


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THE LARCH (TAMARACK) SAWFLY OUTBREAK IN NORTHWESTERN ONTARIO

(Continued from Page 24)

in sample plots was not appreciably greater than normally occurs through natural thinning.

The principal outward effect of the infestations upon the trees has been a reduction in shoot growth and needle production. The lessening of shoot and needle growth causes a decline in population of the larch sawfly, since the sparse foliage can support only a limited number of larvae. Furthermore, the reduction in the number and length of terminal shoots in which the sawflies lay their eggs limits oviposition. There has been a sharp reduction in radial growth. Owing to near elimination of terminal shoot growth, trees heavily defoliated for more than two years usually have a thin crown.

Four factors, irrespective of site quality, have helped larch trees to survive repeated severe defoliation by the larch sawfly. These are:

(1) Larch produces a full complement of leaves annually.
(2) Since defoliation does not occur until July, growth is undisturbed in May and June.
(3) There is some regrowth of foliage in late summer.
(4) The stands throughout Northwestern Ontario are young and vigorous.

No natural control agents have become severe enough to curb the present outbreak in Ontario. Parasites, particularly an ichneumon **Mesoleius aulicus,** is widely distributed in Canada. Judging from reports of parasitism in previous larch sawfly outbreaks, this parasite was released in infestations and became an important control agent. In contrast, results of recent intensive studies carried out by staff of the Forest Insect Laboratory in Winnipeg have shown that the parasite has been a minor factor in control in the Prairie Provinces during the present outbreak. This is due largely to the resistance which the sawfly has built up in the larval stage against the development of the parasite. Parasite eggs laid in larch sawfly larvae are prevented from hatching by capsules which are formed around the eggs. It was found that although 60 to 70 per cent of the larch sawfly larvae in collections from some areas were parasitized, an average of only 10 per cent of the parasite eggs produced larvae which were capable of killing their hosts.

Five species of parasites including **M. aulicus,** reared at the Dominion Parasite Laboratory in Belleville, have been released in western Ontario in the past four years. None of these has become numerous enough to be important in control of the larch sawfly. Mass collections of cocoons from western Ontario have been reared since 1947 in the laboratory at Sault Ste. to determine the degree of parasitism. Parisitism considerably in the areas sampled. The highest oc in 1949 in samples submitted from Kenora Di approximately 21 per cent of the larvae in cocoon tained parasites. The following table summarize overall parasitism in collections from four distri western Ontario.

SUMMARY OF PARASITISM 1947 — 1949

Forest district	Year	No. of samples	Total no. of cocoons	P pa
Kenora	1947	4	835	
	1948	4	540	
	1949	8	407	
Sioux Lookout	1947	9	1020	
	1948	9	1379	
	1949	16	1182	
Fort Frances	1947	1	900	
	1948	3	955	
	1949	5	899	
Port Arthur	1949	2	383	

Studies of diseases affecting various spec sawflies in Canada have revealed that polyhedr capsule virus diseases are most virulent. No virus has been found in the larch sawfly to date. Fu several genera have been recovered from dead and pupae but field experiments with these org for control of the larch sawfly did not produc results.

Complete control of outbreaks of the larch by aerial spraying with chemicals is complicated fact that larch stands are widely distributed in p It is questionable whether aerial spraying wo economically feasible on a large scale since ev smallest pockets of infestation would have to be to prevent early recurrence of infestations in a larger stands.

Although the control of widespread outbr the larch sawfly would appear unfeasible, contro ures should be practical in accessible larch stand are valued scenically or for the merchantable which they contain. The possibility of thorough ition of poisons sprayed from aircraft is enhanc by characteristics of larch stands and the feeding of larch sawfly larvae. Larch occurs in Ontario exclusively in fairly pure, even-aged stands in with few topographical obstructions, thus pr excellent conditions for low-flying aicraft. The of larch trees is evenly distributed over the crown fore the spray should penetrate the entire crown

(Continued on Page 27)

LARCH (TAMARACK) SAWFLY OUTBREAK ORTHWESTERN ONTARIO

(Continued from Page 26)

urable weather conditions. Unlike numerous other ts which live a considerable part of the larval stage nelters fromed in or between the leaves of host larch sawfly larvae feed in the open on the foliage e they are susceptible to either stomach or contac n spray.

Since it is by no means inevitable that larch stan infested will be killed before natural control agent k the infestations, it would seem most logical t resent to closely follow the effects of sawfly defol- until unmistakable signs of deterioration occur. becomes evident that the larger stands are in danger rious depletion, the cost of spraying at two- to four- intervals with chemicals could then be balanced st the value of the timber which is threatened.

Long-term cutting plans have been suggested in rairie provinces to reduce future loss of timber larch sawfly infestations. Since mature stands are vulnerable, long-term cutting plans to effect a distribution of age classes were recommended. I policy were adopted stands of merchantable larch be logged as they became accessible. Clear- g was advised to release the understory and pro- rapid regeneration. An accurate inventory of larch s in the area selected for management would be requisite to this or any similar management plan.

THIS IS A CENSUS YEAR

Continued from Page 22)

penalty against divulging any fact whatsover that may have been learned through the census. The Bureau of Statistics is forbidden to issue any statement that would directly or indirectly reveal information about a particular person or concern.

But that is not all. Census information obtained from or about you may not be used for taxation or military purposes. It is expressly forbidden by law to use census data to tax a person or to call him for military service."

With the co-operation of all our people, we shall have at this year's end a full-length portrait of ourselves. The first rough total should be published by November and by December the count should be available for municipalities. The first detailed results should be ready by March 1952, telling such things as age distribution, sex, and so on. The complete report is expected by March 1953."

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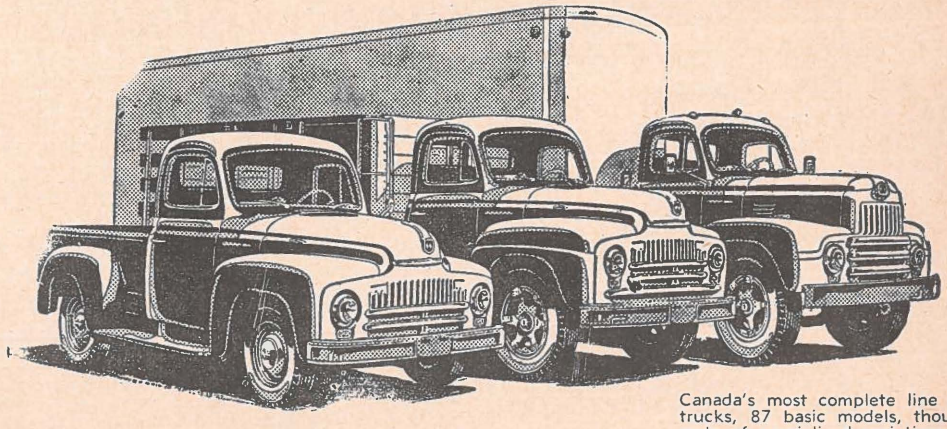
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