

# FOREST OWNER

the voice of 255,000 forest owners in New York  
- representing an ownership of 11 million acres

"Good stewardship should be a moral principle of all landowners. The public has every right to expect the farmer, the doctor, the lawyer, the teacher, and the conservationist, to develop an acceptable code of ethics with respect to the land to which he holds title. You might say that he owns a debt of good stewardship for the rights, privileges, and benefits society bestows on him through land ownership.

"At the same time, society has an obligation to help make the task of farming and resources management a rewarding life for the landowner and his associates who strive with him at these tasks. Life in the countryside, abounding as it is in natural beauty, should not and need not be a life of drudgery, poverty, and ugliness."

John Wilder, National Association Soil and Water Conservation Districts National Vice-President, speaking at the 23rd Annual Meeting of the Soil Conservation Society of America.

Vol. 6 Oct. 1968 No. 10

## PERFECT FALL WEATHER MARKS 6TH FALL MEETING NYFOA

Early morning fog hung like a thick blanket over Tupper Lake September 28. But by mid morning it had rolled up to make way for a near perfect autumn day as a hundred members of NYFOA, many staying overnight in Tupper, headed for the Huntington Forest assembly point at the edge of an outstanding 52 year old white pine plantation just off Route 28N, 12 miles east of Long Lake and within 2 miles of the village limits of Newcomb.

Here Mrs. Luella B. Palmer, Treasurer and Membership Secretary, greeted members at the registration desk under cover of one end of the sawmill, as cars continued to crowd the roadway leading into the plantation.

On hand was a three man motion picture team from the College of Forestry under the direction of Dr. David A. Hanselman who took advantage of



The assembly point at the sawmill in the Huntington Forest just off Route 28N. Registration table has been moved out in the open to facilitate momentarily a motion picture sequence to be shown in a 28-1/2 minute film on New York State's Forest Practice Act.

the occasion to shoot film showing a gathering of forest owners as part of a New York State Forest Practice Act film now developing with the cooperation of the Conservation Department, New York State Forest Practice Board, and the College of Forestry.

One of the scenes filmed took place a short walk from the registration table, in the splendid white pine plantation growing on a fertile old field planted in 1916. The pines thinned by the CCC during 1938-40 had been pruned to 17 feet, followed by a second thinning in 1950-51 by students of the College of Forestry and at 4 to 6 year intervals since.

This white pine plantation on the Huntington Forest is growing in excess of a thousand board feet a year! Under current marketing conditions it is earning about \$15 per acre per year. This earning capacity is directly related to fast growth, which in 4 to 5 years, shows height growth of more than 6 feet and diameter growth during this time of more than an inch.

The opening Friday afternoon program got off promptly at 1:15 as John Stock President of NYFOA, welcomed Association members to NYFOA's 6th Fall Meeting and introduced Dr. Donald Behrend, Director of the Huntington Forest. With the aid of a large map Don showed the layout of the 15,000 acre tract and outlined what was to be seen on the three stops during the 12 mile tour of the forest.

The long car caravan, abbreviated somewhat by doubling up, drove first to the Spring Hill area. Here was a contrast of natural woods on one side of the road and the other the effect of

using chemicals. The herbicides had reduced the understory of beech as an undesirable component in contrast to the preferred sugar maple.

The four page Huntington staff handout available at the registration desk urging the desirability of communication between research workers and forest owners, stated:

"The mature hardwood forest, as characterized at this stop, consists of a two-storied forest with an abundance of beech in the understory component. All previous silvicultural practices, practiced in the mature hardwood forest, have tended to increase the abundance and vigor of this species. To preclude this we have been treating the beech understory with herbicides to control beech.

"We are attempting to eliminate the beech understory prior to any logging. Logging then will provide the increased light to promote growth of regeneration. Ideally, we would prefer to wait for some 3-5 years following beech control before cutting the overstory. When this is not possible our cutting has been such as to leave 7-10 dominant sugar maple per acre to provide seed. Eventually, we plan to remove all merchantable trees and manage the new stand as an even-aged forest.

Mist blowing herbicide equipment was on hand to see, - the cost of using the mist blower being lower than other methods of chemical beech kill.

At Catlin Lake the staff paper read: "This beautiful lake is 540-acres in surface area and lies partly in Essex and partly in Hamilton counties.

(continued on next page)





NYFOA members listen intently as Bill Tierson, Forest Manager of the Huntington Forest explains method of reducing beech reproduction by herbicide mist blowing of lower forest story to enable preferred sugar maple to grow more vigorously. In the background, untouched natural hardwood forest.

Across the lake the Huntington Forest Natural Area of 15,000 acres, was established by action of the Board of Trustees of the College of Forestry.

Catlin Lake, elevation 1598 feet, is the highest lake in the Hudson River drainage that would be affected by the proposed dams on the Hudson River. One of these proposed dams, if constructed, would raise the level of Catlin Lake some 5-10 feet."

On this glorious autumn afternoon Catlin Lake was indeed a treasured spot to observe. It cast a sort of spell over the group. The smooth limpid water prompted three of the ladies present to kick off shoes and wade right in.

The stop at Catlin Lake was an invitation to relax, to talk, to enjoy an expanse of natural beauty and abundant color coming rapidly into the northern hardwoods forest. It was a bright spot for the photographer and a most welcome one on the tour!



Come on in! The water is just great! Three feminine NYFOA members couldn't resist the appeal of Catlin Lake on a warm sunny afternoon.

Final stop took place along a road with an inverted "U" shaped trail leading to, along and from a deer enclosure, meticulously brushed out by local Girl Scouts. At this point Don Behrend took up the microphone to describe what had happened and what had been learned by the use of enclosure, a fence enclosing a 2-acre area that kept deer out.

Regarding this stop, the staff notes explained:

"This 2-acre deer enclosure was



Enjoying the autumn afternoon stop at Catlin Lake (from left) Dr. David L. Hanselman, Coordinator Educational Communications and head of the motion picture team at College of Forestry; Robert E. Jones, Regional Manager American Forest Institute, Washington, D. C.; Bernard Holtman, Director-Producer of the College of Forestry's motion picture team; Robert D. Greenleaf, Forester Finch Pruyn Co., Glens Falls, and Chairman NYFOA's 6th Annual Fall Meeting.



(from left) Floyd Carlson, former NYFOA Executive Vice President and Editor, Forest Owner; Mike Demeree, Chairman, New York State Forest Practice Board, and John Stock, President NYFOA, in a relaxed mood at Catlin Lake in the 15,000 acre Huntington Forest.

erected in 1939 in a mature hardwood forest. After 11 growing seasons there was little difference in the vegetation inside and outside the fence. In 1955, a 30-acre area including the enclosure, was logged with 50 percent of the basal area being removed. This was followed in 1961 by a poisoning of the understory in order to insure continued light for growth of reproduction which was abundant both inside and outside the fence.

"Differences in vegetation inside and outside the enclosure were apparent the year following logging. In 1956, the average height of striped maple inside and outside were 12.7 and 3.2 feet respectively. By 1957, alternate-leaved dogwood was abundant inside, but entirely absent outside.

"Differences in timber species became quickly apparent. In 1963, tallies of reproduction over 3 feet showed no yellow birch outside and 20 inside; 3 white ash outside compared to 25 inside; and 2 sugar maple outside with 82 inside. Beech, by contrast, was about twice as abundant outside as inside.

"This knowledge of the effects of deer browsing led us to studies of techniques for reducing browsing pressure. An experimental electric fence reduced deer browsing in a 255-acre area; but the benefits were not sufficient to justify the cost.

"In 1966, we began a study of deer control through public hunting. By intensive hunting we have attempted to reduce the deer density from a deer per 20-acres to a deer per 40-acres. The hunting has proven successful, and the reduction in browsing has allowed a great increase in the growth of hardwoods here.

"Desirable timber species, i.e., sugar maple, yellow birch, and white ash, have increased from 5 outside in 1963 to 377 in 1968. This increase has provided an improvement in deer habitat as well as in timber regeneration.

"Ultimately, we hope to determine the maximum number of deer the forest can support while maintaining both timber and wildlife habitat values. In fact, management of timber and deer are inseparable, and truly comprehensive management requires that all knowledge of silviculture and deer management be integrated in one system."

Leaving the beauty of the Huntington Forest with some reluctance the cars with NYFOA members headed westward 12 miles through Long Lake

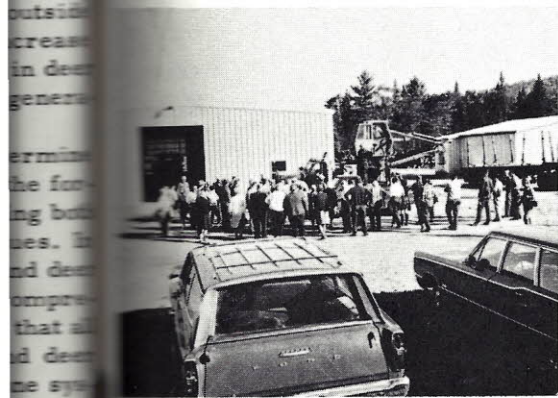


village and another 12 miles past the Rock Island Mill of Elliot Hardwood Company where the Saturday morning program centered and 4 miles beyond to the Riverside Restaurant situated east across from a spacious Conservation Department boat launching site.

After a Dutch treat social hour and an excellent steak dinner, President John Stock introduced guests at the head table and in the audience, recognizing the services of Membership Secretary Mrs. Luella B. Palmer, Registration; Emiel Palmer on Arrangements; and Robert D. Greenleaf as Chairman of the Program Committee. Others attending included Robert E. Jones, Regional Manager American Forest Institute, Washington, D.C.; Mr. and Mrs. Francis Demaree, Chairman, New York State Forest Practice Board, who spoke briefly regarding the Practice Board activities.

Dr. David L. Hanselman, Coordinator of Educational Communications at the College of Forestry, heading the motion picture team, explained that motion pictures taken that afternoon were intended for inclusion in the Forest Practice Act film now being developed with the cooperation of the New York State Conservation Department, the New York State Forest Practice Board and the College of Forestry. Director-Producer of the film, Bernard T. Holtman, was introduced as one of the recent members of the Office of Public Service and Continuing Education at the College of Forestry.

Highlight of the Friday evening dinner program were illustrated slide talks on the Huntington Forest skillfully prepared by the Director, Dr. Donald F. Behrend, showing wildlife and especially deer, through the sea-



Saturday morning September 21, NYFOA members assemble for tour of facilities on site of Rock Island Mill of Elliot Hardwood Company 6 miles east of Tupper Lake on Route 30.

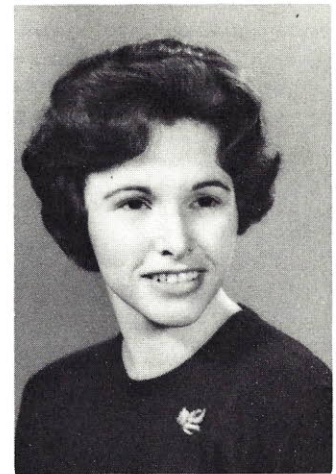
INTRODUCING NEW ASSOCIATE EDITOR NANCY CLARKE GRIDLEY (Editor's Note: It is with great pleasure that we present our new and talented Associate Editor.)

Forest Owner:

Professor Carlson asked me to introduce myself to you here. I have been added to your Newsletter staff as an associate editor.

Without giving a data-sheet kind of rundown, let's just say I was born in New York, raised mostly in Ohio, earned a B.S. at Houghton (New York) College and an M.A. from Syracuse University School of Journalism, and work in Syracuse. I am associate editor of News For You, a weekly newspaper for adults with low reading skills. It is published by Laubach Literacy, Inc., with which many of you might be acquainted.

My credentials for writing to forest owners and interested parties are very few--nothing much more than courses in geology and ecology in my



college General Science major. So articles, letters, suggestions, and--please!--criticisms from more knowledgeable readers are very welcome.

Fortunately Professor Carlson is still the editor and guiding light of Forest Owner. I'm looking forward to learning from him, and to meeting many more readers in person.

ncg

sons, - and by William C. Tierson, Forest Manager, on activities related to the forestry program. These two excellent talks were received with enthusiasm.

Earlier in the evening from the windows of the Riverside Restaurant the golden glow of sunset settling over Tupper Lake forecast another favorable day on the morrow.

Next morning with 65 members having breakfast at the Riverside Restaurant, the 6th Fall meeting participants headed for the Rock Island Mill of the Elliot Hardwood Co. on Litchfield Park Corporation forest land, 4 miles down the road from the restaurant. Here John Stock speaking from the back of a truck, welcomed Association members to Litchfield Park Corporation where he serves as Superintendent of forest lands on a 28,000 acre multiple use forest.

John explained that the mill now in the process of construction is a new type designed to handle tree length logs, with a bank of slasher saws breaking them into various components, best grade logs going for veneer, other log sections into high grade lumber, others for pulpwood, etc. The new operation results in a considerable increase in the amount of useful material harvested from the forest, and better operating efficiency.

It is hoped and generally agreed that the approximately one million dollars in investment in new equip-

ment and procedures in log handling will provide a new thrust to more effective forest harvesting, utilization and forest management. It seems likely that logs from some 200,000 acres of timberland in the area may well find their way to this center for improved log handling and use.

Forest Owners then moved up a nearby slope and noted with astonishment the thousands of logs already accumulated in various piles, each pile containing logs graded according to anticipated use.



John Stock, President of NYFOA and host at the Rock Island Mill, outlines operation of the million dollar installation for the harvesting, handling and utilization of Adirondack hardwoods at this location. John did a superb job in handling his assignments Friday evening and Saturday morning.



Once on top there was an astonishing medley of moving machinery - trucks with tree length logs moving to the slasher, log handling equipment removing logs from the several slasher compartments, and cranes raising logs onto the slasher - an impressive operation indeed!

At 10:30 a coffee break, courtesy of the Litchfield Park Corporation, provided opportunity to see the Rokan Trail-Breaker, a low geared, heavy tired two wheel motorcycle with ability to negotiate up brushy slopes, move across low lying swampy areas and when properly equipped, as approved by the Forest Service of the U. S. Department of Agriculture, capable of being used to convey forest fire fighting equipment to remote forest sections.

By near noon, on Saturday morning September 21 log hauling and log handling equipment had been watched,



New mill at Rock Island site of Elliot Hardwood Co. to house Soderhamn H-P Canter, a high speed head-rig for converting low grade hardwood logs into lumber. This mill, to be completed in the near future, is the only one of its kind in the Northeast.



On slope near the new mill under construction, big piles of logs classified for future use, dwarf visiting NYFOA members.

wondered at and admired. It was an impressive demonstration "in materials handling equipment," to use a phrase from John Stock.

Throughout the two day and evening meeting there was a most cordial atmosphere, many opportunities to greet old friends in NYFOA, and to discover with pleasure new friends with similar forest interests.

Special thanks are due to Don Behrend, Bill Tierson and their staff at the Huntington Forest; Bob Greenleaf and Woody Olmsted co-chairing the Program Committee and securing the services of Finch Pruyn to print the handsome program; and to the meticulous work of Luella B. Palmer who handled registration so ably and effectively, assisted by Second Vice



Crane swings tree length logs onto deck of slasher saw operated from push button point in shelter house where operator manipulates saws and movement of logs.

#### CARLSON RELINQUISHES POST AS EXECUTIVE VICE PRESIDENT NYFOA

When NYFOA's first President, Ted Buckley, presently Sheriff of Washington County, sought the aid of the then Dean Hardy L. Shirley of the College of Forestry to secure a secretary for the newly organized NYFOA, Dean Shirley asked Floyd Carlson if he would serve as secretary "for a year or so." The year stretched into 4 years and during the 5th year Floyd was made Executive Vice President.

On August 3, 1968 just five years to a day since he had first been appointed by the Board of Directors in 1963, Floyd asked to be relieved of his responsibility as Executive Vice President. The Board of Directors has concurred.

Commenting upon his request Carlson said "I will be retiring from the State University College of Forestry on August 31, 1969 less than a year from now.

President Emiel Palmer.

The Tupper Lake and Long Lake areas were beginning to be spectacular in their autumn forest robes. The two days were so outstanding weather-wise, it was causing excited comment among the Adirondack residents. Our thanks are due all of you who found it possible to venture forth on this occasion. May we have many an NYFOA Fall Meeting like this one!

Abetted by such glowing autumn weather the 6th Fall Meeting of the NYFOA was a resounding success!



NYFOA members watch with fascination as the operator in the control room facing a battery of saws, cuts tree length logs into best possible length for maximum use. A Cary Lift, in the foreground, clamps down on a log bundle and heads for a log pile where all the logs in that pile will be used for the same purpose.

"It is the wish of the recently appointed Director of the Office of Public Service and Continuing Education of the College of Forestry that during this last year my time and services be largely available to this Office, - a request in which I fully concur. While my successor has not yet been secured I will remain available to him during my many months prior to retirement."

Floyd went on to say, "Eventually all successful associations depend on a full time executive.

"Today State forestry associations around the nation count on the continuity of a paid executive, one who is in a position to devote full time to the needs of the association's members and objectives of the association.

"Among the forest owners of New York State are some of the finest people in the country. I know this because many of these forest owners are now members of NYFOA. As I

(continued on next page)



JENS HANSEN,  
SARATOGA COUNTY, TO HAVE  
WOODS WALK OCTOBER 26

"Dear Floyd:

"We cordially invite any interested NYFOA members to come here for a Woods Walk on Saturday morning October 26. This time we are already assured of a minimum number needed for a Woods Walk.

"Our property is an abandoned farm with a solid old saltbox house which is now our home. When we first saw it in the fall of 1953, run down as it was, we still thought it had good possibilities for the future and the children loved the place.

"About half of the 110 acres had been farmed and was growing fast into brush and saplings, the rest was cut over woods. We planted some 8,000 seedlings mostly for Christmas trees which I trimmed several years and they grew into a fine stand but we never did get them marketed properly.

"Under the guidance of the District Forester I have carried out an FPA program on several areas and in 1965

(continued from page 4)

see it, all forest owners of New York State in general will benefit by the results of a strong forestry association.

"The whole program of forestry and its direction in the future, to no small degree, depends on a strong, vocal, well directed association. For it is my conviction that there is a deep seated conservation interest in New York State, as great as anywhere in the nation.

"Furthermore I am equally convinced that forestry and production of wood crops on land suited to forest growth has a future scarcely realized. In my opinion we are only in the beginning stage of managing our forests, especially the hardwoods, - for the kind of wood harvests and other benefits they will ultimately provide.

"After seeing the New York Forest Owners Association progress through 5-1/2 years of organization I believe the Association faces both a challenge and exciting period of growth and accomplishment. Already the NYFOA has been making its mark on the forestry future of New York State, and must continue to do so in a greater degree in the future."

After retirement from the faculty of the College of Forestry, where he will be serving in his 40th year, Floyd's plans include travel, writing and lectures. Until then, he continues to serve as a member of the Board of Directors of NYFOA.

became a Tree Farmer.

"Last year with the help of the District Forester we made a light thinning on some 30 acres and sold 136,000 board feet of hardwood and softwood logs mixed and about a hundred cords of pulpwood.

"To reach our farm, follow County Route No. 4, along the north shore of Sagandaga Reservoir between Hadley and Edinburg. At Day Center by Jurgens Grill turn up Yates Hill Road. Our place is right on top of the hill, about 1/2 miles from Route No. 4.

"Hope to see you here Saturday morning October 26, at 10 a.m.!

Sincerely,  
(signed) Jens"

Editor's Note: Please send your reservation for the Jens Hansen Woods Walk to Hendrik W. vanLoon, Chairman, Committee on Woods Walks, 120 Campus Rd., Clinton, N. Y. 13323, by October 19 at the latest.

Feel free to bring a neighbor. He may want to join NYFOA! Be sure and bring your lunch. Be prepared for Woods Walk - snow, rain or shine!

#### LAND USE SEMINAR, NATIONAL FOREST PRODUCTS ASSOCIATION

An overflow crowd of representatives of land-based industries participated in NFPA's land use seminar, "Land and the American People," here yesterday. Nearly 50 land-using industries were represented, plus educators, land authorities, government officials, individual companies, and a large delegation of forest industry principals.

Russell H. Ells, Board Chairman of NFPA, presided at the meeting. He reminded those attending that an increasing proportion of the population tends to view the land as a source of rest and recreation rather than as an essential element in our national economic prosperity.

The seminar was highlighted by a proposal to establish a National Land Use Institute as a move toward establishing better public understanding of the U.S. land base and its relationship to the public interest. Milton A. Pearl, Director of the Public Land Law Review Commission, and Mortimer B. Doyle, Executive Vice President of NFPA, both expressed the view that joint participation by government, land-using industries and communications media in such an organization would improve public understanding of land use matters and influence evolution of a sound national land use policy.

(Source: Forest Products Newsletter September 6, 1968)

Here's a chance for more of that fine fellowship of NYFOA'ers and what they are doing to build the woods wealth of New York State!



THE WOODS WALK IS ADVENTURE! Every Woods Walk sponsored by NYFOA has proved to be an adventure! Come see for yourself! On this Harold Tyler trail a spotted fawn was sighted by the Walkers. Note tall timber beside trail.

"THREE THINGS, AND THREE THINGS ONLY, sustain life on this planet. They are--a thin layer of soil, a covering of atmosphere, and a little rainfall. This is all that the good Lord has given us except one thing: He has given us a choice of what to do with it. We can waste it, we can pollute it, we can neglect it, or we can conserve it, and we can pass it along to our children, more promising, more abundant than we found it when we discovered America."

--President Lyndon B. Johnson at dedication of Eufaula Dam, Okla.

#### THE TEXAS FOREST ECONOMY

There are approximately 150,000 woodland owners in Texas who, together, own more than 11.5 million acres of commercial timberland.

Eighty per cent of these owners hold less than 100 acres each.

Any tax policy applicable to one owner also is applicable to his neighbor, regardless of the size of the ownership.

Texas timber-based activities provide employment for 161,850 Texans.

Annual value of shipments from Texas' primary timber manufacturing plants totals about \$211.7 million.

Annual shipments from secondary manufacturers total about \$114.8 million. Each dollar from standing trees adds \$25 to Texas' economy through harvesting, manufacturing, construction, transportation and marketing.



## NEWS OF YOU

It was a pleasure to see the familiar faces at the Fall Meeting and also to make the acquaintance of new members who were there. You are all most friendly and I enjoy working with you, and for you.

The following letter has just been received from a charter member of our Association:

"Dear Mrs. Palmer,

"It is with reluctance that I am resigning from the New York Forest Owners Association, but at the age of 90 years and no longer in control of the woodlands, as I was in former years to a considerable extent, I feel it the part of wisdom to resign.

"I am glad to see how well the Association has grown and trust that it will go on to greater usefulness - which our heirs may be able to avail themselves of.

Sincerely yours,  
(signed) Hilda Loines"  
The Quarterdeck  
Bolton Landing  
New York 12814

Some of our new members are:

DeWitt Fish & Game Club, Inc.  
(Onondaga) - DeWitt  
Jerry Tomenga (Chenango) Civil  
Engineer from Port Byron  
Limestone Creek Hunt (Onondaga)  
Manlius  
Mr. & Mrs. Willis B. Waite  
(Chautauqua) - Delhi  
Harold H. Clum (Albany) -  
Chappaqua  
Adirondack Museum Library -  
Blue Mountain Lake  
Mr. & Mrs. George B. Stock  
(Onondaga) - Camillus  
Grace Leach Hudowalski - Albany  
Mrs. Luella B. Palmer

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Treasurer-Membership Secretary  
Mrs. Luella B. Palmer  
157 Ballantyne Rd.  
Syracuse, N. Y. 13205

## AN IMPORTANT NOTICE!

With the following November issue Nancy Clarke Gridley becomes full Editor of the Forest Owner.

Each of you are asked to write the new Editor, to send in clippings of interest to Forest Owners and to otherwise share your views and experience in woods and forest ownership with other members of NYFOA.

So! Please give our new Editor a great big lift!

Nothing you could do would make Nancy feel more welcome in her new assignment than to hear from you!

Don't worry about your writing - Nancy will see that whatever gets sent in will get proper and tender editorial treatment!

Mail your copy to Miss Nancy Clarke Gridley, 1021 Westcott St., Syracuse, N. Y. 13210, so that Nancy can receive it by the 10th of the month.

Please start moving your copy for the Forest Owner right away!

## NEWS NOTE

On Sunday, September 8th, twenty-two members of the Albany Chapter of the Adirondack Mountain Club had a conducted tour of Cooxrox Forest, got "the work" about Larch.

Confucius says that "one picture is worth a thousand words;" wonder what a look at the real thing could be worth, on a magnificent fall day!

David B. Cook

WEYERHAEUSER CORPORATION has hired a full-time manager to oversee the expansion of public outdoor recreation facilities on its 3.7 million acres of domestic timberland. Roadside parks, picnic areas and campgrounds with paved streets are among the facilities planned.



## PLANTATION-GROWN RED PINE FOR POLES

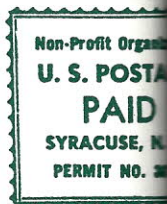
Plantation-grown red pine is increasing in commercial importance as several plantations develop maturing stands of timber. Some of these stands have been in existence for upwards of half a century which means that the trees have reached saw timber or pole size.

A recent study undertaken at the Ottawa Forest Products Laboratory, has indicated no difference in strength between plantation-grown and natural-grown red pine poles for power and communication use.

At the same time, red pine continues to grow in natural stands over a large area of Canada. The Forest Products Laboratory has long ago developed strength data on the natural product, and codes and specifications for red pine poles and timber reflect these data.

The same data are not available on plantation-grown red pine and this leaves some doubt in the mind of the potential user as to whether or not he should accept the plantation product on the same basis as the product which grew naturally.

The poles used in the study came from four Ontario plantations and were provided by the Ontario Department of Lands and Forests. The age of the plantations ranged from 34 to 50 years and the circumference of the poles ranged from 36 to 43 inches at the butt, after machine shaving. (Source: Research News, Dept. of Forestry and Rural Development - Canada May-June, 1968)



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LIBRARY

MAY 29 1968

SUNY COLLEGE OF  
ENVIRONMENTAL SCIENCE  
AND FORESTRY