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Texas ☆ FOREST FESTIVAL

LUFKIN • SEPT. 27 — OCT. 2, 1948

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- GREW UP WITH THE LUMBER INDUSTRY.
- BEGAN BUSINESS WHEN LUMBERING WAS THE PRINCIPAL BUSINESS IN DEEP EAST TEXAS.
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1948

Texas Forest Festival Catalog

An Official Publication of the Angelina County Chamber of Commerce

ED HOLDEN
Editor

W. R. BEAUMIER
Chairman
Publicity Committee

DORIS CARTER
Ass't. Editor

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OUR COVER

The Texas Forest Festival is indebted to the Monsanto Chemical Company for permission to use its color picture on the cover of this catalogue.

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Foreword

THE TEXAS FOREST FESTIVAL was organized to help the development of a more prosperous East Texas economy through the improvement of the forest resources of this section of the State.

Six times since 1938—with interruption due to World War II—have the forest resources and the prominent role played in the industry by Lufkin and Angelina County been stressed in Texas Forest Festivals, and in this seventh Forest Festival that theme and idea behind the event have been greatly expanded.

In 1947 the Angelina County Chamber of Commerce took over control and operation of the Forest Festival, through the purchase of the common stock of the Angelina County Fair Association This assumption of control by the Chamber of Commerce was for the purpose of expanding and strengthening the Texas Forest Festival.

Any profits resulting from the operation of the Festival can be spent only for improvement of the Festival grounds and for the operation of subsequent Forest Festivals.

The 1948 Forest Festival will offer its 100,000 visitors not only a complete forestry and livestock show, but rapidly expanding sawmill and lumber equipment exhibits. Leading manufacturers show the latest developments of equipment for the lumber industry.

In planning and holding this annual event it was but proper that Lufkin should have been selected as the site for this show window of forestry activities. Lufkin and Angelina County have long been recognized as both the geographical and industrial center of Texas' great forestry resources.

In Lufkin is located the field offices of the Texas Forest Service, from which are directed the protection of the state's forest resources, the encouragement of good forestry practices, and the propagation of our pine forests through planting of millions of seedlings annually.

Only recently the importance of the community in the state's forestry picture has been stressed by the removal from Houston to Lufkin of the offices of the United States Forest Service, supervising activities in the various Texas national forests.

In Angelina County the largest lumber mills of the south turn out millions of board feet of pine timber for use in building a nation. After other areas declined to give the support, or could not raise the necessary backing, it was Angelina County citizens who took hold of the Herty process for making newsprint out of southern yellow pine, and who carried the laboratory process through to the construction of a giant paper mill — still the only one of its kind in the world.

A small sawmill machine shop has grown into one of the south's greatest foundries, and manufacturer of oil field equipment, engines, trailers, and other equipment that is exported to all portions of the world. Another foundry that came to Lufkin only a few years ago has risen to the top among its type of manufacturing concerns.

Finished hardwood timbers are shipped from Lufkin to the largest trailer and truck manufacturers in the nation, and abroad; fence is manufactured here for the largest mail order company in the world; grain doors, chairs, creosoted products—all these are products of Angelina County's industries, and are all based on the full utilization of the area's products.

Backing up these industries are a people second to none in the state or nation; workers whose production records have not been equaled anywhere — a progressive citizenship that has kept pace with industrial and business expansion.

It is the sincere desire of the Chamber of Commerce that the Texas Forest Festival focus the attention of all the citizens of Texas and the Southwest on the importance of this gigantic timber industry, and to impress upon them the necessity for conserving soil and water, for pasture improvement and livestock development, and for cooperation on the part of all citizens in the conservation and protection of our forest resources.

The Forest Festival Committee, of the Chamber of Commerce, is composed of outstanding lumbermen, businessmen, and professional men of Angelina County and the surrounding area. These men realize the importance of the development of improved forestry practices in East Texas, and it is their work that is responsible for the ever increasing importance of the annual Texas Forest Festival.

The committee has been given valuable assistance by the Texas Forestry Association, the Texas Lumber Manufacturers Association, by the state and federal forest services, the county agents and vocational agricultural teachers and by other volunteer workers.

Truly, this 1948 Texas Forest Festival is the result of a cooperative community effort, and the same splendid unselfish cooperation in future years should bring even greater Festivals and Equipment Shows with horizons unlimited!

ANGELINA COUNTY
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K. W. Denman, Jr., President
Jean Shotwell, Chairman,
Festival Committee
Ed Holden, Manager.

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WELCOME
TEXAS FOREST FESTIVAL
VISITORS

Edens-Birch Lumber Co.

Manufacturers of
PINE AND HARDWOOD LUMBER
Corrigan, Texas

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The Texas Forest Festival Grounds are located on Highway No. U. S. 69, within the city limits of Lufkin.

PRICE OF ADMISSION

The price of admission to the Texas Forest Festival will be as follows:

For children under eight years FREE
For each adult, single admission 35c
For children under sixteen years of age and over eight years of age 9c

SEASON TICKETS

Season Tickets good for general admission to the Forest Festival grounds may be purchased for $1.50

IMPORTANT

It will be considered a special favor if visitors will report to the Manager any mistreatment or extortion practiced by any employee of the Festival or concessionaire. Do not wait until the Festival is over, but report immediately at the Manager's office on the Festival grounds; then redress can be made.

GENERAL RULES AND REGULATIONS

The Texas Forest Festival will be held September 27 - October 2, 1948, at Lufkin, on the Festival grounds unless postponed or changed by the Board of Directors—a right which they claim and reserve, should they deem it necessary or advisable.

The Board of Directors reserves a final and absolute right to interpret and amend or add to the rules should they deem advisable; also to settle all questions that may arise relative thereto.

Exhibits must be in place Monday, September 27 by 11:00 o'clock, except where special rules in departments provide other times, or unless unavoidably delayed in transit. Proof of delay must be submitted to superintendent in charge of department.

All goods must be unpacked immediately upon arrival and all cases, boxes, etc., removed by exhibitor.

No claim for injury to any person or property shall ever be asserted nor suit instituted or maintained against the Texas Forest Festival or its officers or agents by or on behalf of any person, firm or corporation, or their agents, representatives, servants or employees having license or privilege of exhibit on the Festival grounds or occupying any space thereon.

If any damage, loss or injury to person or property shall be approximately caused by reason of any neglect or willful acts of any employees having license or privileged to exhibit on said Festival grounds or occupy any space thereon, the Texas Forest Festival shall in no manner be responsible therefor, and in case it is subjected to any expense or liability all persons causing same or liable therefor shall indemnify the said Texas Forest Festival at its domicile, viz., Lufkin, Texas.

All owners of property, or others having same in charge shall care for, guard, protect and preserve the same, as the Texas Forest Festival does not undertake to do so, and it shall not be held responsible for any loss or damage to said property.

ELECTRIC CURRENT

The following schedule of rates for light for six days' services from September 27 to and including October 2, 1948. For additional service, special rates will be made on application:

10—Watt	$ .10
15—Watt	.15
25—Watt	.25
40—Watt	.40
60—Watt	.60
75—Watt	.75
100—Watt	1.00
150—Watt	1.50
200—Watt	2.00
300—Watt	3.00

The Festival will furnish general illumination for grounds and buildings, but all special and individual light or service will be charged for at the above rates, the user to provide drops and install whatever necessary wiring that may be required at own expense. Socket connections are provided at convenient location for attachment. Concessionaires must pay for current upon demand or forfeit concession rights.

COMMERCIAL EXHIBITS

Exhibit space for manufacturers, jobbers and retailers may be had in the Exposition Building. Address the Manager, Texas Forest Festival, Lufkin, Texas.

There will be no special lights provided. The Exposition buildings are well lighted without cost to the exhibitor.

The Texas Forest Festival will not be responsible for any exhibit, but will have competent watchmen in the buildings day and night, and every effort will be made to guard every exhibit.

Those desiring display space should make arrangements for same at an early date, as booths usually are sold out long before the opening of the Festival.

Booths in the Exposition buildings are for display purposes only.

The Texas Forest Festival reserves the right to re-assign all booths not occupied by 9:00 A. M. Monday, September 27.

This building will be closed promptly at 11:00 o'clock each night and opened at 9:00 o'clock each morning.

LUMBER EQUIPMENT EXHIBITS

The outdoor space in the center of the Forest Festival grounds has been laid out for equipment exhibits. This space has been divided into exhibit lots 20' x 25'. These lots rent for $35.00 each. Flood lights will be provided for this area. Exhibitors desiring electric current run into exhibit, should make special arrangements ahead of time. Exhibitors from all over the United States have reserved exhibit space in this area. All types of lumber and saw mill equipment will be shown here.

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hall of fame







We would like to create a special hall of fame for good telephone users. These are the folks who use the telephone party line sharingly. They respect their neighbors by not talking too long nor too often. They always replace the telephone on the hook after talking. Our hall of fame would include courteous children — considerate teen-agers — neighborly adults. This would be a gallery of really good neighbors — don't you agree?

LUFKIN TELEPHONE EXCHANGE

"WE TRY TO PLEASE"

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and country lanes have you ever stopped to think about the service life of all those fence posts you've seen? Yes, some are of durable woods like the *heartwood* of cedar, mulberry, bois d'arc, black locuse, walnut, white oak; some are of non-durable woods, like the sapwood of pine and gum; and, once in a great while, you notice some treated posts.

The naturally durable woods mentioned above are today a scarce commodity in Texas and other surrounding states. On the other hand, we have a plentiful supply of non-durable woods in East Texas — as pine and sweet gum — that are available from thinnings an other improvement cuttings in our forests. An untreated pine or gum post in East Texas lasts only 3 or 4 years — but if treated it may last from 20 to 60 years or more. The annual cost per post is much cheaper for the treated post than the untreated post when all costs are considered. If a simple, effective, and inexpensive method could be found for treating pine, gum, and certain of the oaks— then it is believed the farmer will begin to use treated posts more and more.

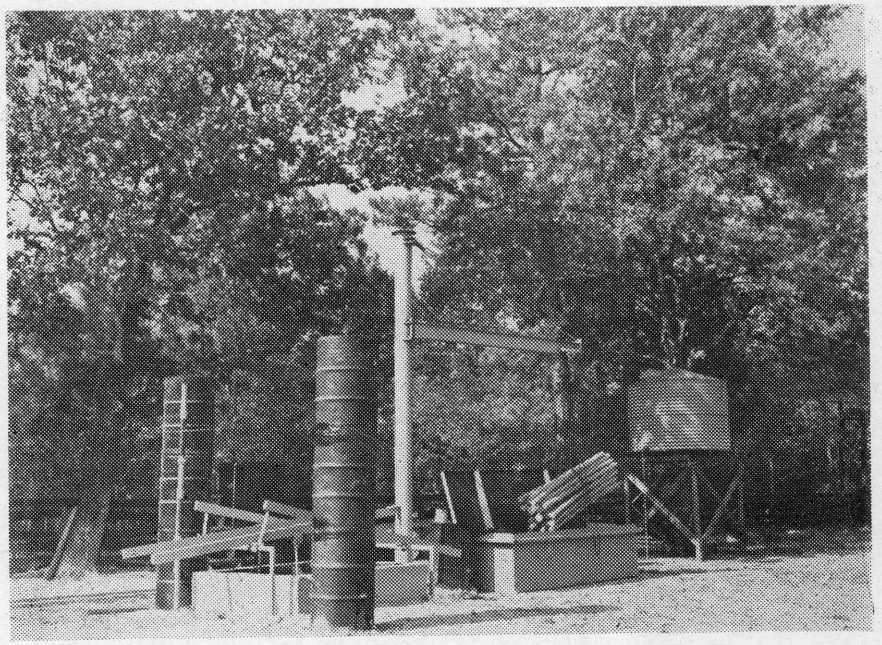
This is exactly what the Forest Products Laboratory at Lufkin, Texas, is attempting to find. As a matter of fact, the Lufkin laboratory was selected as the coordinator of a four-state fence post project last November. Some ten public agencies — including forestry departments in state universities and colleges, the U. S. Forest Service, and others — are cooperating in this project.

We are determining the absorption and penetration of a 5 percent solution of pentachlorophenol mixed with No. 2 fuel oil (diesel oil) in different species of posts. The effect of moisture content and size of post on absorption and penetration are receiving special study. The species being studied are shortleaf pine, loblolly pine, slash pine, longleaf pine, oak, blackjack oak, post oak, and sweet gum.

An average retention of 6 pounds of preservative (about 3-4 of a gallon) per cubic foot of wood for a given batch of posts will be made. Three 55-gallon oil drums welded together are being used for treating tanks. We are attempting to keep all costs down to a minimum — since most farmers must watch the pennies! The posts are merely placed butt end down and allowed to cold soak until the 6 lbs./cu. ft. is absorbed.

Pentachloropehnol concentrate (1 to 10) is being used. When one gallon of this concentrate (at $2.00/gallon) is mixed with ten gallons of No. 2 fuel oil (at $0.12/gallon) — the average cost of the resulting 5% pentachlorophenol solution is around 29 cents per gallon. A pine post with a 4-inch top and 6½ feet long will contain approximately 0.6 cubic foot of wood — and at 6 lbs./cu. ft., would require around 15 cents for the preservative.

The Lufkin laboratory is currently experimenting with shortleaf and loblolly pine. Plans are being made to test other species and to use other soaking process and the [illegible] bath process. Visitors are invited to stop in at the Texas Forest Products Laboratory and look over our experimental fence post treating plant.



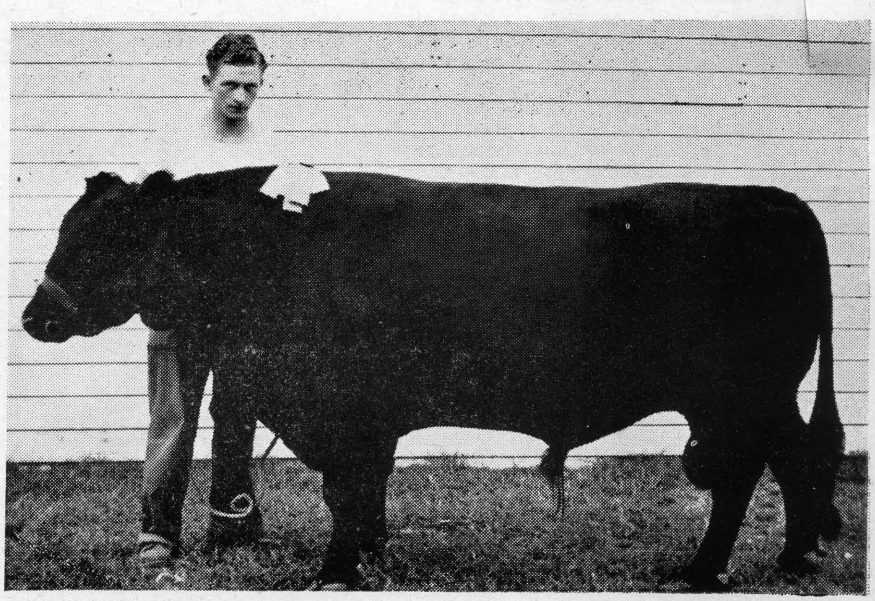
Fence Post Treating Plant, Forest Products Laboratory, Lufkin. Posts are treated vertically in four tanks using the hold-down device shown. For horizontal treatment the tank under the posts is used. Between the two vertical tanks is the mixing vat and to the extreme right is the oil storage tank. A jib crane with moveable hoist is used to lower and raise bundles of posts to be treated.

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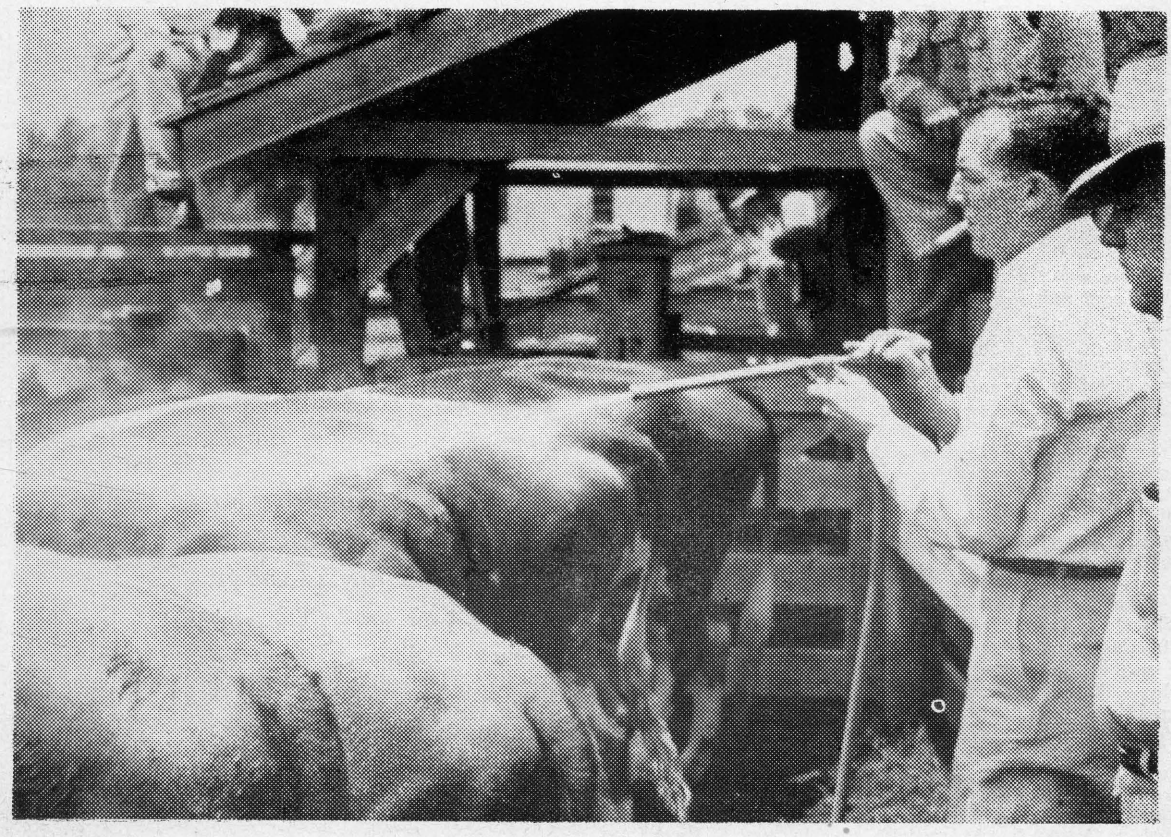
veloping as one of the most important sources of income in East Texas. Although this industry has traditionally depended on the open range, there are definite limitations to its development under these conditions. Experts assure us that improved pastures, second to none, can be developed from most East Texas soils. The long growing season and ample, well distributed, rainfall, make it possible to carry livestock on these improved pastures throughout most of the year.

Because East Texas has a large urban population of its own, and because it is close to such cities as Shreveport, the Beaumont-Port Arthur area, Houston, Dallas, and Fort Worth, the dairying industry is becoming more important. With adequate markets assured there remains only to develop the best possible improved pastures, to build herds of first class dairy cattle and to develop the technical skill necessary to produce Grade A milk.

Continued on Page 11



Alfred Lee Courtney, with his Grand Champion Angus Bull, at the 1947 Texas Forest Festival.



GUS BOESCH,

Vice Chairman Chamber of Commerce Agriculture Committee demonstrates power spray at pasture tour and barbecue held at the Experiment Station May 28, 1948.

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East Texas Livestock Industry

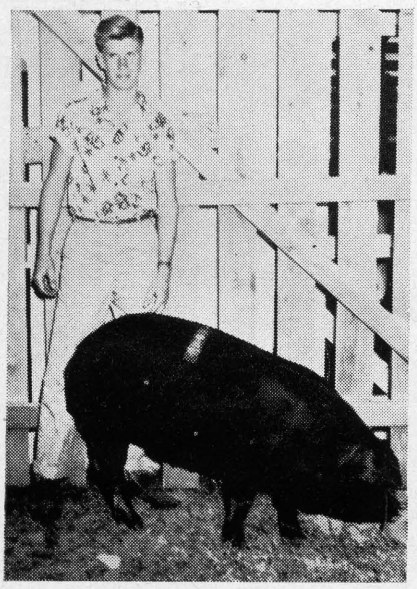
Continued from Page 10

The 4-H Clubs, the FFA, and the Veterans Agriculture Classes have done much to encourage the development of a better and more profitable livestock industry in this area.

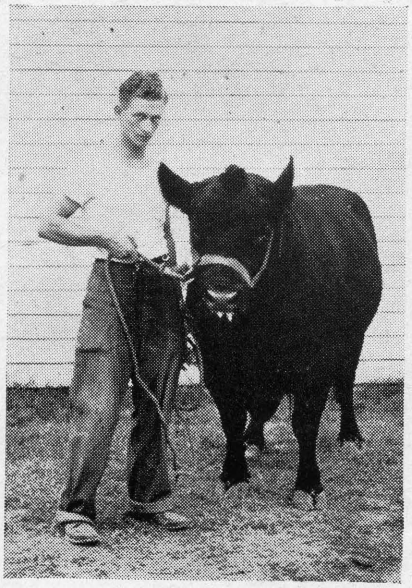
The introduction of Brahman cross breeds has resulted in improved beef type cattle. These cross breed combine the hardiness and size of the Brahman cattle with the beef qualities of other breeds. If properly cared for, cross breed calves will weigh about 500 pounds at the age of eight months when run on improved pastures.

The Texas Agricultural Experiment Station, located southeast of Lufkin on Highway 94 shows the remarkable results which can be obtained through scientific management in developing improved pastures in East Texas. At the invitation of Bill Knapp, Director of the Experiment Station, the Agriculture Committee of the Chamber of Commerce sponsored a Field Day on May 28, 1948. This Field Day was of great value both to businessmen and to farmers who took advantage of this opportunity to see the fine pastures and herds of livestock which had been built up at the Experiment Station.

The Angelina County Chamber of Commerce, like many other East Texas organizations, is sponsoring a program of introducing registered Jerseys into the County. In 1946, 1947 and 1948, individual Chamber of Commerce members purchased 50 registered Jersey heifers and distributed them among 4-H Club and FFA boys. These boys agree to return to the sponsor the first heifer calf which will be presented to another boy. In this way many farm boys of Angelina County will be able to start in the dairy business. These calves will be on exhibit at the Texas Forest Festival.



"Chick" McINTOSH, Lufkin FFA Boy showing his Gilt (Poland China) at 1947 Texas Forest Festival.



ALFRED LEE COURTNEY, Lufkin FFA Boy showing Henry, Texas Forest Festival 1947.

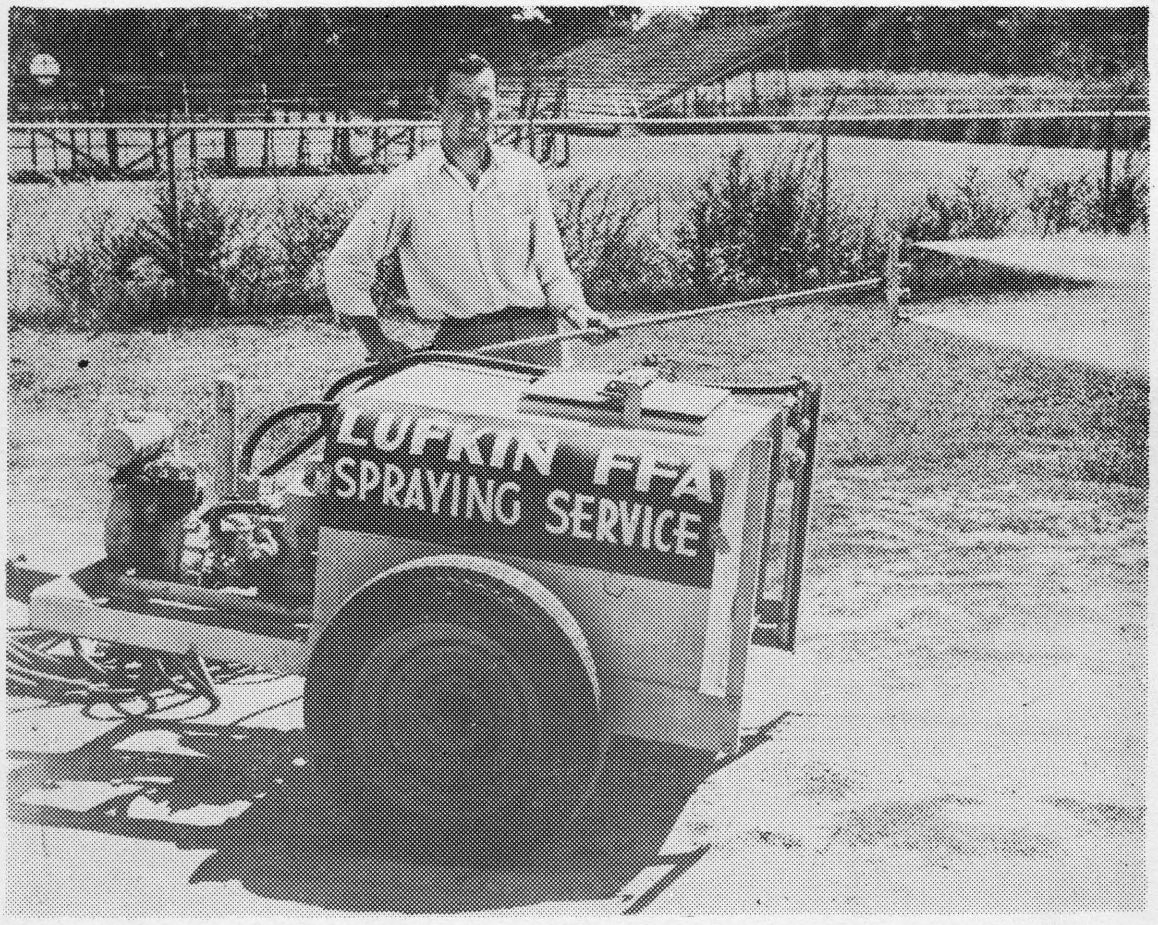


DENTON McCOY, Lufkin FFA Boy showing his Duroc Sow, 1947 Texas Forest Festival.



Pure bred Brahman Bull shown at the Pasture Improvement Field Day at the Experiment Station, May 28, 1948.

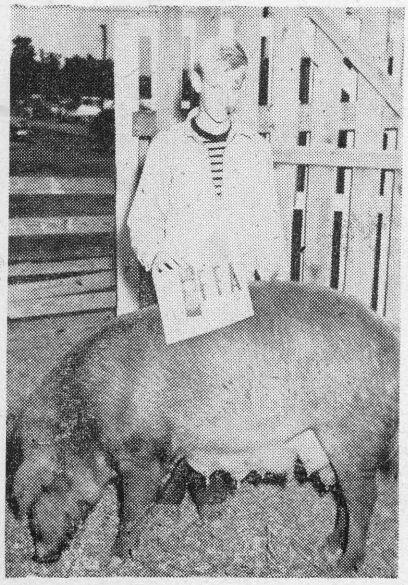
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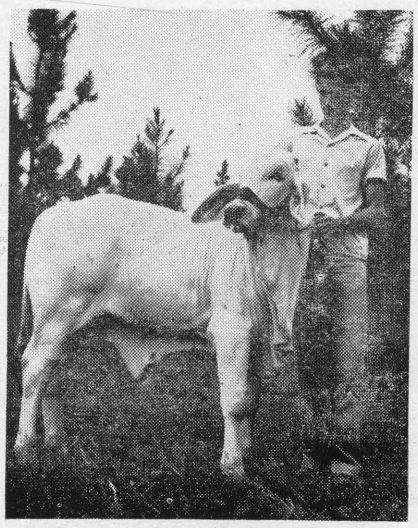
HERMAN BATE.

Lufkin Vocational Agriculture Teacher, demonstrating Power Spraying Equipment.

J. W. PEOPLES, showing his prize Duroc Sow at the 1947 Texas Forest Festival.



DRUENELL HAVARD, with his prize Brahman Calf.



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F

The Need For Forest Products Research In Texas

Conservation may be defined as preservation through wise use. It not only includes protection of our forests from fire and insects and the planting of trees — it embraces research into ways of utilizing the millions of tons of mill waste (sawdust, slabs, bark, etc.), logging waste (tops and stumps), and the low-value hardwoods that are not being used in Texas.

Texas has the largest volume of hardwoods of any state in the Union. At the same time we have some of the most challenging problems in utilization research. The 50,000,000 acres of mesquite (a leguminous hardwood), the 10,000,000 acres of scrub oak in the Post Oak and Cross-Timber Belts and the tremendous volume of low-value hardwoods in the 11,000,000 acres of the Piney Woods Belt in East Texas — all add up to an enormous volume of wood fiber awaiting research for use and development.

But this is only part of the job laid out for the Forest Products Laboratory at Lufkin! Think of the millions of tons of sawdust, slabs, edgings, trim, bark, planer and veneer chips that are wasted and burned each year in our State. It is true that some of the larger mills use their waste for boiler fuel— but as such it may not have over $2 to $3 value per ton. More profitable utilization of this waste from the big mills awaits research. Most of the lumber— believe it or not—is cut from the small and medium-sized mills. They usually burn their waste in refuse pits and it is an actual disposal problem in removing this wood fiber.

There is a third big need for forest products research: to improve on present processing techniques in manufacture. For example, new types of saws that are thinner and more efficient and other improvements in milling would actually *reduce the amount of waste.* The production of lath and handles from slabs reduce the amount of waste in some mills today. That is, it is sound business, first of all, to find ways of reducing the amount of waste by increasing the amount of products at the mill. Then, of the waste which remains, attempt to find ways of utilizing it.

The Lufkin laboratory also provides technical advice to many individuals and firms both through correspondence and personal contact. Enterprises that are unsound must be tactfully discouraged to prevent business failures. Of those wanting to start new industries, only a small percentage turn out to be worthy of further effort. Through keeping abreast of the latest research findings as well as through research itself, the Lufkin laboratory must be in a position to provide wise counsel with respect to amount, kind and location of waste or low-value wood available for development and economic and technical aspects of production of new wood products.

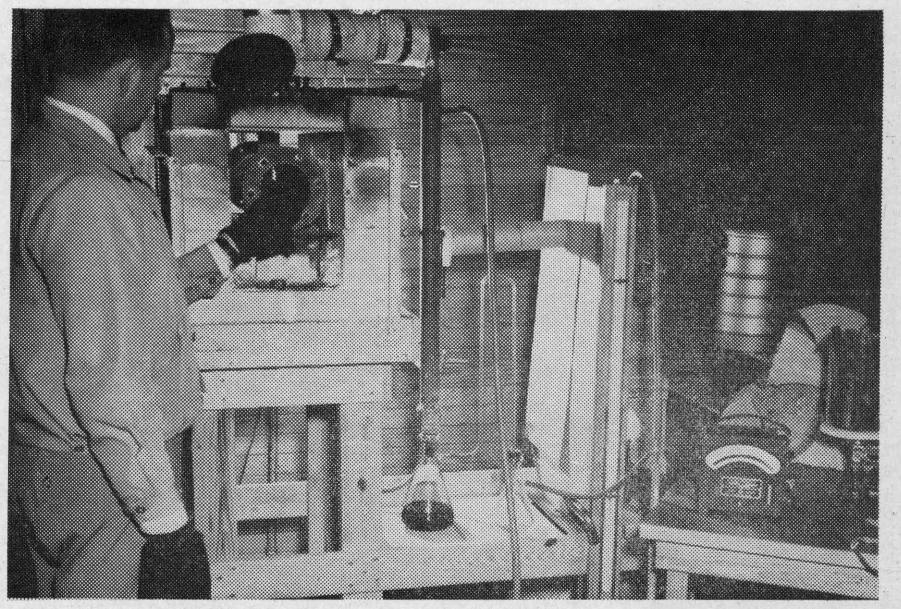
The need for forest products research in Texas by no means stops with research on new products and manufacturing techniques using waste and unused hardwoods. Improvement and increased usefulness of present wood products is a big field in itself. Two of these will be discussed: (1) wood preservation and (2) wood seasoning.

Estimates made in a national report (Copeland Report) indicate that the overcut of timber necessary to replace decay losses in all classes of forest products amounts to more than 10 per cent of the total cut. For decay replacements derived from saw timber alone, approximately 9% overcut of the saw timber is required — or 5 billion bd. ft. annually for the United States as a whole. This is equal to about half of the estimated current growth for this class of material.

Wood preservation research is needed to determine the amount and kind of preservative needed for wood in use and to find inexpensive and effective methods of treating the wood with preservatives. One everyday example is the lowly fence post. An untreated pine post lasts only 3 or 4 years in East Texas. With new treatments and new preservatives being developed it appears that for a very low cost and by a very simple process the farmer may treat these same pine posts and expect a service life of from 25 to 50 years, or more. Windows and doors of our homes, livestock sheds, joints in buildings exposed to dampness, etc., are beginning to be treated economically as a result of research in wood preservation. Wood preservation research is also finding economical methods of reducing the fire hazard of wood and ways of protecting wood from wear, water, acids and other destructive physical elements.

The seasoning, or drying of wood, is another large field demanding constant research in an attempt to reduce waste from seasoning degrade (checking, warping, etc.) and to reduce the cost of kiln operation and maintenance. The design of new types of kilns (as the gas-fired kiln), faster schedules for drying hardwoods, improved methods of air-drying — these are but a few of the problems demanding attention of the Lufkin laboratory. For the United States as a whole, it is claimed on good authority that losses due to improper seasoning amounts to more, in dollars and cents, than all forest fire damage.

From the brief resume given above, the need for a strong and well-supported program of forest products research in Texas becomes apparent. No, it doesn't have the glamour that some other conservation ills present — but in dollars and cents it is very important. With the growth and development of the Lufkin laboratory — the only state-operated forest products laboratory in Texas — should come not only new industries and additional labor opportunities, but also better wood products at a relatively lower cost to the people of Texas.



Destructive distillation in which percentage of charcoal, crude distilate and non-condensible gases are measured.

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Forestry Exhibit

PARTICIPATION BY: FFA BOYS & 4-H BOYS

Object of Forestry Exhibit

1. To encourage the youth of the timbered section of Texas to understand and participate in the practices that make thrifty forests
2. To allow the timberland owners and general public to view the exhibits so as to understand the needs for proper forestry practices.
3. To provide a show window for proper forestry practices.

The recognition of timber as a cash crop is essential to a well-planned land usage program. An estimated total of 3,950 FFA and 4-H boys will lend their talents, suggestions and thoughts to the forestry exhibit subjects. To encourage these practices, these exhibits are sponsored by the following:

Texas Forest Festival
Texas Forest Service
Texas Forestry Association
Texas Lumber Manufacturers Association & Affiliated Industries

FORESTRY EXHIBIT THEME

The general theme of the exhibits will be "A Better Texas Through Better Forestry."

RULES OF FORESTRY EXHIBITS

Who Will Exhibit:

The forestry exhibits will be prepared by the 4-H Clubs of the Texas Extension Service and the Future Farmers of America Chapters of the Vocational Agricultural Education. Free passes to the Festival grounds will be available to the exhibit participants and the judges.

Exhibit Spaces:

A total of 21 booths are assigned within the 4-H Club districts and the FFA Chapter areas. To the 4-H Club Districts are allotted seven booth spaces.

To the FFA Chapter areas are allotted fourteen booth spaces. Each exhibit booth will be 7' 8" wide and 7' deep, inside measurements, and have a backboard 5' high. Each booth will be bare of decorations and the exhibit and dressings will be left to the initiative of the exhibitor.

Exhibit Subjects:

Any subject dealing wtih any proper forestry practice may be selected by the exhibitor. Any phase of forest fire protection, forest management, forest tree planting, forest wood utilization or other forestry practice may be exhibited. The assignment of the exhibit subject will be handled by the District Agents in cooperation with the County Agents for the 4-H Club group and by the Vocational Agriculture Supervisor in cooperation with the Vocational Agriculture Teachers for the FFA Chapters. It is probable that each Service will develop exhibits on the basis of their respective operational basis.

JUDGING FOR EXHIBITS

Exhibits must be completed and in place not later than midnight on September 26, and shall remain in place until the end of the Texas Forest Festival October 2, 1948.

Judging will be conducted at 9:00 A. M., Monday morning, September 27, and the first, second and third place winning booths will be designated by appropriate ribbons.

Judges will be selected by the Texas Forest Festival. The decision of the judges, in which every fairness and consideration will be shown, shall be final.

Basis of Score:

The exhibits will be judged on the basis of the following points in scoring. Awards will be made on the basis of the total points scored:

1. Presentation (350 Points)
   a. Is the problem affecting forest practices clearly presented? ..... 250 POINTS
   b. Is the value of the recommended forest practice clearly shown? ..... 100 POINTS
2. Solution (350 Points)
   a. Is the solution of the forest practice problem clearly demonstrated? ..... 250 POINTS
   b. Will the exhibit stimulate action for solution of improper forest practices? ..... 100 POINTS
3. Attractiveness of Exhibit (300 Points)
   a. Are the decorations in harmony and the exhibits in proportion? ..... 100 POINTS
   b. Are the signs and placards neat, brief and attractive ..... 100 POINTS
   c. Is the exhibit and booth as a whole well arranged, neat, and attractive? ..... 100 POINTS

Total Points Possible ..... 1,000 POINTS

AWARDS FOR EXHIBITS

All awards will be made by the Texas Forest Festival, in cooperation with the sponsors. The schedule of awards offered for the exhibits are as follows:

First Prize — $85.00; Second Prize — $75.00; Third Prize — $60.00; and $50.00 cash to each of the other forestry exhibits. Exery 4-H Club or FFA Chapter preparing a forestry exhibit will receive a minimum of $50.00 regardless of rank in scoring.

Money for the cash prizes will be contributed by the following organizations:

1. The Texas Lumber Manufacturers Association and Affiliated Industries will contribute $450.00 for the cash awards given for forestry exhibits.
2. The Texas Forestry Association will contribute $100.00 towards these cash prizes.
3. The Texas Forest Festival will contribute the balance of the cash prizes.

The Simonds Saw & Steel Company, through its representative, Mr. Fred Ziegler, of Dallas, will give a Simonds Cross-Cut Saw as an additional prize for each exhibit.

The Texas Forest Service will cooperate in consultation with the participants and other exhibitors in coordinating the exhibits.

Agriculture Exhibits

1. No agricultural exhibit will be eligible to compete for community awards unless it is set up by 12:00 o'clock noon, of the opening day of the Festival.

2. No premium shall be awarded if the exhibit is unworthy.

3. Only products listed in agriculture may be displayed and exhibited in community exhibits.

4. Agricultural booths will be scored as follows:

   1. Educational feature ..... 250 points
   2. Decoration and arrangement ..... 250 points
   3. Agricultural products ..... 500 points

A. In judging decoration and arrangement, the judges will consider the following:

(1) Appearance and attractiveness of backgrounds and table.
(2) Symmetry and attractiveness of colors used in display.
(3) Freedom from excess bulkiness.

B. In judging the educational features, the judges will consider

(1) Its agricultural importance.
(2) Minimum of printed matter.
(3) Simplicity. (Ease of understanding)
(4) General attractiveness.

C. In judging agricultural products, to consist of five separate displays composed of five separate farm enterprises with each display consisting of four exhibits.

(1) A display may consist of four exhibits of a single variety or, it may be four different varieties of the same crop. The form of exhibits of a display may be all the same or they may differ at the discretion of the exhibitor.
(2) Example of a display:
   a. 4-ton ear samples of yellow dent corn
   b. 4-ton ear samples of different varieties of corn

Continued on Page 15

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Forestry, Agriculture and Livestock Exhibits

Continued from Page 14

(3) Products display may be selected from the following:
- a. Corn — 10 ears
- b. Cotton — 12 boles
- c. Hay-bales — 4 small bales
- d. Peanuts — 1 gal.
- e. Garden Crops — butter beans, 1 gal; English peas, 1 qt.; sweet potatoes, 10; Irish potatoes, 1 gal.
- f. Sugar Cane — 5 stalks
- g. Cow peas — 1 gal.
- h. Hegari — 10 heads
- i. Eggs — 1 doz., must be raised.

AWARDS: The schedule of awards offered for the exhibits are as follows:

The Angelina County Chamber of Commerce will award these prizes. First Place — $50.00; Second Place — $40.00; Third Place — $30.00; All others — $25.00.

County Home Demonstration Exhibits

County Home Demonstration Clubs will enter exhibits which are representative of the work done by their organizations. These exhibits will emphasize home canning, needlework, home beautification, and the many other activities carried on by county home demonstration units.

Educational exhibits will be set up by the 14 home demonstration clubs of Angelina County. Mrs. Wade Gilliken, council exhibit chairman will have charge of the exhibits, assisted by the club exhibit chairmen from each club.

In addition to the exhibits, the finance committee of council, under the direction of Mrs. J. B. Hall, committee chairman, will sponsor a "County Store". Articles for sale will include canned food, pickles, jams, jellies, preserves, cup towels, pot holders, aprons, children's clothing, etc.

Girls 4-H and FHA Exhibits

Girls 4-H and FHA Chapters will enter exhibits showing projects of their clubs. They will not compete for prizes, but an award of $25.00 will be made to each club entering an exhibit.

4-H CLUB EXHIBIT

An educational exhibit will be set up by the 4-H Club Girls under the supervision of the Assistant County Home Demonstration Agent.

Livestock Exhibits

GENERAL RULES

All entries and awards in this department shall be subject to the General Rules and Regulations published in this premium list.

Prizes will be awarded only to Angelina County Livestock. Livestock from other counties may be exhibited and classed for educational purposes.

All applications for entry must be made on an official entry blank, and filed in the Chamber of Commerce office not later than Sept. 15, 1948.

All entries must be in place not later than 11:00 A. M., Sept. 27, 1948. (Exception: The only exception to the above rule is that cattle which are being milked may be entered for judging not later than 10:00 A. M., Wednesday, Sept. 29, and may be removed from the Festival Grounds after the judging is completed.)

Each entry must be made on a separate entry blank.

In case of a limited number of animals in any class, prizes will be awarded on the merits of the individual animal.

The management will have the right to reject any entry which is not deemed suitable for exhibition.

In breeding classes, all female animals 42 months of age or more must have produced a calf to maturity within the past eighteen (18) months to be eligible to show. Any bull over thirty-six (36) months old that has not dropped to his service a living calf during the twelve (12) months preceding the opening day of the Festival, shall be deemed barren and as such shall be excluded from competition.

Each exhibitor will be held responsible for feed and the feeding of his livstock during the week of the Festival.

Rules of the Livestock Sanitary Commission of Texas governing livestock for exhibit purposes shall apply to all livestock exhibits at this show.

Judging will start Tuesday, September 28, at 10:00 A. M., and continue until finished. No exhibitor may interfere with the judges, nor dispute the judges decisions. If he does he will be barred from competing for prizes, and be required to remove his exhibit from the grounds at once.

Every animal entered for competition or occupying space or stalls on the grounds shall be under the control of the director in charge.

DAIRY CATTLE SHOW

Classes:

FEMALES
1. 6 mo. — 1 yr. of age
2. 1 yr. — 2 yr. of age
3. 2 yr. — 3 yr. of age
4. 3 yr. and over

MALES
5. 6 mo. — 1 yr. of age
6. 1 yr. — 2 yr. of age
7. 2 yr. — 3 yr of age
8. 3 yr. — and over

Awards:

1. Cash prizes will be awarded on the basis of the point system:

Purple Ribbon	5 Points	$15.00
Blue Ribbon	4 Points	12.00
Red Ribbon	3 Points	9.00
White Ribbon	2 Points	6.00
Yellow Ribbon	1 Point	3.00

BEEF CATTLE SHOW

Classes:

FEMALES
1. 6 mo. — 1 yr. of age
2. 1 yr. — 2 yr. of age
3. 2 yr. — 3 yr. of age
4. 3 yr. and over

MALES
5. 6 mo. — 1 yr. of age
6. 1 yr. — 2 yr. of age
7. 2 yr. — 3 yr. of age
8. 3 yr. and over

Awards:

Premiums for all classifications of Beef Breeds will be:

First	$15.00
Second	10.00
Third	7.50
Fourth	5.00

SWINE SHOW

Classes:

BOARS
1. Boar under 9 mo.
2. Boar 9 mo. to 18 mo.
3. Boar 18 mo. and over

GILTS
4. Gilt under 6 mo.
5. Gilt 6 mo. to 12 mo.
6. Sows 12 mo. and over
7. Registered Sow and litter (all breeds)

Awards:

First	$10.00
Second	7.00
Third	4.00
Fourth	2.00

Negro Exhibits

LIVESTOCK

This exhibit will be in charge of E. C. Johnson. The same rules and premiums as in the White livestock exhibits will apply.

AGRICULTURE

Negro 4-H Clubs and the Home Demonstration Agent will prepare exhibits for the Agriculture section of the Forest Festival.

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FOREST FIRE CONTROL

By CHARLES L. RICH

Visual Aid Specialist

Texas Forest Service, College Station

A year ago when the gates opened for the 1947 Texas Forest Festival, the men of the Texas Forest Service Protection Division weren't in much of a mood to celebrate. They were worn and haggard from their 10-day efforts in the Conroe area to put out the biggest series of forest fires in their entire history. Their job had been made much tougher by a woeful lack of mechanized fire fighting equipment.

As Festival time rolls around this year, the picture is brighter. Not exactly rosy yet — but brighter. Let's see what has been going on at the picturesque Protection Headquarters just south of Lufkin's city limits.

First, let's flash back and look at the picture as it was a year ago. When the Conroe fires began to break out, the Texas Forest Service had charted its course of increased mechanization.

Chief J. O. Burnside's protection force had determined after two years of experimenting and research that the best piece of equipment to fight fires in East Texas was its own adaptation of the war-time jeep. A specially designed middle buster type plow, hydraulic winch, protective plates and steel top had proven necessary in tests.

Equally as much research had been conducted in the use of aircraft to patrol and spot fires. Radio communication had also proven to be the answer for quick dispatching of fire fighting crews.

The Conroe area, however, had not yet received the benefit of this type equipment. When the fires began to break out, all that was available in the area were eight fire fighters equipped with hand tools and relying solely on telephone communication.

Burnside rushed the only two Texas Forest Service planes to the scene, sent the lone fire fighting jeep into action and had radio communications set up at the Montgomery county airport headquarters. The rest of the equipment had to be borrowed.

Meanwhile more fires were breaking out than the crews could handle. To make a long story short, some 55,000 acres of timberland heavily burned and the damage soared to more than a million dollars, a sum far greater than it would have, had the proper equipment been available.

Finally, the smoke died down, but the men of the Texas Forest Service and the timberland owners were still burning under the collar. They determined to do something about this situation so the same thing wouldn't be likely to happen again. Let's see what they did.

Flip the pages of the calendar. During the winter some 20 jeeps had been delivered and duly equipped according to specifications. Another all metal plane and considerably more radio units had been put into operation. Thus when fires again broke out in large numbers — this time in northeast Texas — the Texas Forest Service had a stockpile of mechanized equipment to concentrate in the trouble area. The fires were plentiful, but they didn't get far out of hand. Things were looking up.

Take another look during the month of July. By then there were 22 fully equipped jeeps, 58 two-way radio units and three planes.

Now let's look ahead a couple of months. The Texas Forest Service announced early in August that it was placing orders for yet another 28 four-wheel drive fire fighting units (25 jeeps and three power wagons), 36 more mobile radio sets and two new planes. The planes have already been delivered, but it will take longer to get the jeeps and equip them for action.

Additional support to the tune of $119,000 from private timberland owners, both large and small, coupled with state and federal funds, made this possible. It will put the Texas Forest Service at its peak strength of any time in its 33-year history.

Yes, the picture is brighter. But there's a long way to go yet. Even with the addition of new equipment will still leave the Texas Forest Service with an average of only one mechanized unit for every 600,000 acres of timber areas. Studies in Texas indicate a completely equipped mechanized fire fighting unit manned by specially trained men is required for each 62,500 to 93,000 acres of forest area, according to Acting Director D. A. Anderson.

It is with this in mind that the Texas Forest Service has submitted its carefully thought out "Operations Forestry" plan for legislative consideration next January. It proposes additional funds to provide yet another 109 mechanized fire fighting units, 125 more radio units and three more planes — incorporating the over-all total into new district setups to get the most effective use out of them.

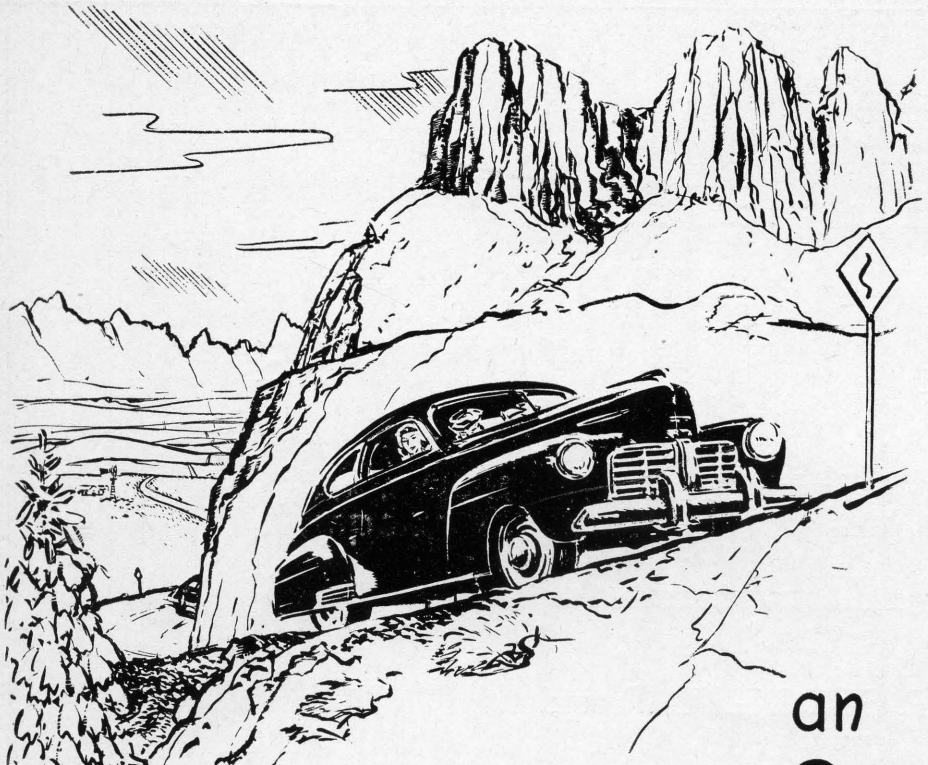
In the same plan, additional funds are also proposed for forest nursery operations, forest products research, state forests, silvicultural research and forest management.

Yes, this has been a busy year for the Texas Forest Service. The years ahead promise to be busy, too, but if the people of Texas can get the maximum value out of its timber resources and leave a rich forest legacy for the generations to come, all will not have been in vain.



Texas Forest Service Fire Fighting Jeep, equipped with hydraulically controlled middle-buster plow, two-way radio, and auxiliary fire fighting equipment.

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TEXAS FOREST FESTIVAL

Program . . Sept. 27 — Oct. 2, 1948

Monday, September 27

OPENING DAY

9:00 A. M.—Judging of Forestry Exhibits.
1:00 P. M.—Gate Opens.
3:00 P. M.—Parade of the Foresters (downtown).
6:00 P. M.—Barbecue for Visiting Bands.
7:30 P. M.—Pageant and Coronation of Queen Sylva VII.
1:00 P. M. to Midnight—Schafer Shows on Midway.
12:00 Midnight—Gate Closes.

Tuesday, September 28

SCHOOL DAY—School Children Admitted Free Until 6:00 P. M.

9:00 A. M.—Gate Opens.
10:00 A. M.—Judging of Swine Show.
11:00 A. M.—Inspection of Exhibits.
2:00 P. M.—Judging of Beef Cattle Show.
3:00 P. M.—Rodeo Parade (downtown).
7:30 P. M.—Rodeo.
9:00 A. M. to Midnight—Schafer Shows on Midway.
12:00 Midnight—Gate Closes.

Wednesday, September 29

FORESTRY DAY—Dedicated to Texas Forest Service, U. S. Forest Service, and All Texans Working To Perpetuate Our Forests.

9:00 A. M.—Gate Opens.
11:00 A. M.—Judging of Dairy Cattle Show.
3:00 P. M.—Inspection of Exhibits.
7:30 P. M.—Rodeo.
9:00 A. M. to Midnight—Schafer Shows on Midway.
12:00 Midnight—Gate Closes.

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TEXAS FOREST FESTIVAL

Program . . Sept. 27—Oct. 2, 1948

Thursday, September 30

GOOD NEIGHBORS DAY—Honoring All East Texas.

9:00 A. M.—Gate Opens.
10:00 A. M.—4-H Club District Swine Show.
11:00 A. M.—Inspection of Exhibits.
3:00 P. M.—Inspection of Exhibits.
7:30 P. M.—Rodeo.
9:00 A. M. to Midnight—Schafer Shows on Midway.
12:00 Midnight—Gate Closes.

Friday, October 1

NEGRO DAY—Negro School Children Will Be Admitted Free Until 6:00 P. M.

9:00 A. M.—Gate Opens.
11:00 A. M.—Inspection of Exhibits.
2:00 P. M.—Downtown Parade.
3:00 P. M.—Inspection of Exhibits.
7:30 P. M.—Queen's Coronation & Pageant.
9:30 P. M.—Coronation Ball.
9:00 A. M. to Midnight—Schafer Shows on Midway.
12:00 Midnight—Gate Closes.

Saturday, October 2

LUMBERMAN'S DAY—Dedicated to the Texas Forestry Association, Texas Lumber Manufacturers Association and the Lumber Industry of Texas.

9:00 A. M.—Gate Opens.
11:00 A. M.—Inspection of Exhibits.
2:30 P. M.—Program dedicated to the Timber Industry.
3:00 P. M.—Inspection of Exhibits.
4:30 P. M.—Forestry Day Program.
7:30 P. M.—Rodeo.
9:00 A. M. to Midnight—Schafer Shows on Midway.
MIDNIGHT—Gate Closes.

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TEXAS FOREST SERVICE LABORATORY EXPANDS

By NORT BASER
Information Specialist
Texas Forest Service, College Station

The "new look" is very much in evidence at the Lufkin Forest Products Research Laboratory these days. It's no fad either. It's all a part of the A. & M. College Texas Forest Service scheme to put its research program on a more sound and efficient basis.

The face lifting job being engineered by E. D. Marshall, laboratory chief, includes remodeling and streamlining the building itself, as well as the addition of new research equipment. Individual laboratories are being equipped and partitioned off to allow for more privacy and concentration, and modern lighting and air conditioning is being installed. Revisions in office space are also being made.

The equipment — some new and some merely necessary additions to that already on hand -- includes such items as a trailer with scales for use in determining mill waste, a digester for use in pilot plant production of wood pulp, lumber seasoning apparatus, fence post treating plant, and a varied assortment of test tubes and so forth for use in wood chemistry experiments.

It all adds up to an imposing array when viewed by the layman, but Marshall is quick to point out that the laboratory is still lacking in funds to tackle more than a few of the basic research projects which the forest industries are eager to solve.

Nevertheless, the laboratory has the nucleus around which to expand. And Marshall plans to make the most of his two new technical assistants, Songe S. Sakornbut, wood chemist, and Robert McKay, wood technologist. The laboratory has plenty of work to keep several more such technicians busy, but increased appropriations will have to be forthcoming before such men can be employed.

Let's take a quick look at some of the equipment on hand and learn for what purpose it is intended. For instance, the scales which have been mounted on a trailer will enable the laboratory technicians to conduct their waste survey right at the various mills under study. The log will be weighed before it is sawed, then the lumber and waste will be weighed in turn after the saw has finished its job.

Various types of mills — such as sawmills, planer mills, veneer mills, pulp mills — will be visited, and the average of waste will be determined for each type. The information will be especially useful for those wishing to utilize such waste in making other wood products and in the planning of research projects.

The use of a wood digester for converting our southern timber wastes into wood molasses has already attracted considerable attention in view of the product's possibility as a feed for cattle. This project awaits only financial backing to get under way.

The survey on seasoning of lumber in gas-fired dry kilns has attracted enthusiastic response from members of the Texas Dry Kiln Club. As a result of meetings held every other month at the Forest Products Laboratory, there is a movement now afoot for industry to employ a kiln tune-up man. While such a man would have no official connection with the Texas Forest Service, he would use the laboratory as headquarters and relay his findings to the lab technicians.

Lumber manufacturers sent their kiln operators to the first two-weeks dry kiln school conducted at the Lufkin lab last October. Top-notch instructors from the United States Forest Products Laboratory had charge of the training program. For practical experience the class seasoned 7000 bd. ft. of mixed oak in the Lufkin laboratory's cross circulation kiln.

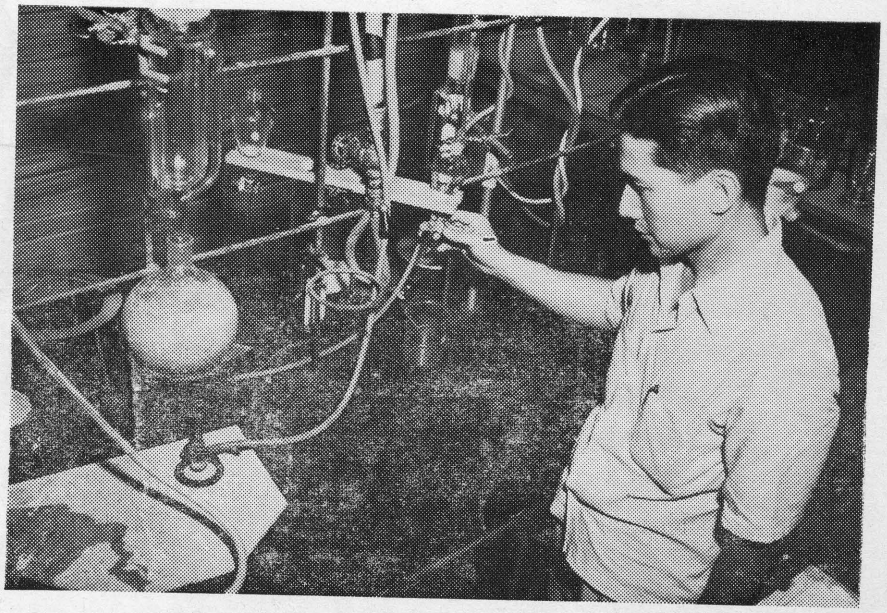
The laboratory has also expanded its equipment for use in conducting fence post treating experiments. The Lufkin laboratory is currently serving as coordinator in a cooperative project with other educational institutions in Louisiana, Arkansas, Texas and Oklahoma in an effort to find a simple, inexpensive and effective method of treating posts which farmers will use.

As a part of this project, lab studies hope to determine the effect of moisture content of posts and time of treatment on absorption and penetration of the wood preservative. Treated posts will be set in specified zones in the four-state area to determine serviceable life on different sites.

In the field of wood chemistry, Dr. Sakornbut is working on a project of solvent extraction of wood chips. This is a cooperative project with Dr. Harris, Chemical Engineer, on the A. & M. Campus. Wood chemistry offers great potentialities for waste utilization, and it is hoped that a separate wood chemistry building will be built in the near future. The pulp and paper and plastic industries are two of the more notable, but by no means the least, examples of wood chemistry success.

One long-time project is the collection of wood species. It is planned to collect authentic samples of all the woods growing in Texas. By "authentic" is meant that the foliage, flowers and/or fruit of the trees from which the wood samples are taken will be identified by an expert botanist. Woods from other states and foreign countries are also obtained through cooperative efforts. Last fall logs from twelve different species of Texas trees were collected and as a result of cooperation with the New York State College of Forestry, the lab has several hundred authentic wood samples from various parts of the United States. In addition, various wood samples from the Rio Grande Valley were of great interest. Two of these woods rank among the heaviest woods grown in the United States.

Marshall points out that the laboratory projects are now on firm footing and that an attempt is being made to keep abreast of the times in the research program. Through continued support of the people of Texas, the Lufkin laboratory is expected to grow and develop to the point where it will equal the forest products laboratories now being planned for certain other states.



Songe S. Sakornbut, Texas Forest Service Wood Chemist, conducts an experiment at the Lufkin Forest Products Laboratory.

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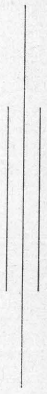
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NATIONAL FORESTS

By H. B. BOSWORTH

Forest Supervisor, Texas National Forests

The four Texas National Forests were proclaimed October 15, 1936, in accordance with prior approval of the Texas Legislature, by names reflecting the history and geography of Texas. The gross area within the proclaimed boundaries totals 1,714,364 acres. The net area publicly owned and administered by the U. S. Forest Service is 658,000 acres.

The four units of the Texas National Forest, with headquarters in Lufkin, are located in eleven counties, and comprise 11% of the total area of these counties: The Angelina unit with headquarters in Lufkin, consists of Angelina, Jasper, San Augustine and Nacogdoches Counties; The Sabine unit with headquarters in San Augustine, consists of San Augustine, Shelby and Sabine Counties; The Sam Houston unit with headquarters in Huntsville, consists of Walker, Montgomery and San Jacinto; and the Davy Crockett unit, with headquarters in Crockett and Groveton, consists of Houston and Trinity Counties.

WHY THE NATIONAL FORESTS?

These National Forests were established for the purpose of demonstrating on an adequately broad scale that cut-over lands, protected from fire and properly harvested, will reproduce and return a profit to the owner in money, and to the local communities in economic benefits. It is our further purpose to protect, grow and harvest on a sustained yield basis maximum timber crops; to protect the watersheds so as to prevent erosion; to develop and maintain public recreation areas; to put every forest acre and resource to the best use of the most people in the long run.

Protection and preservation only gives a resource aesthetic value. Real value is obtained through utilization and perpetuation. It is through utilization that man lives Forests support communities — people and their schools, churches, roads, businesses and recreation. It is the development and maintenance of the human resource that makes conservation and wise use of natural resources important.

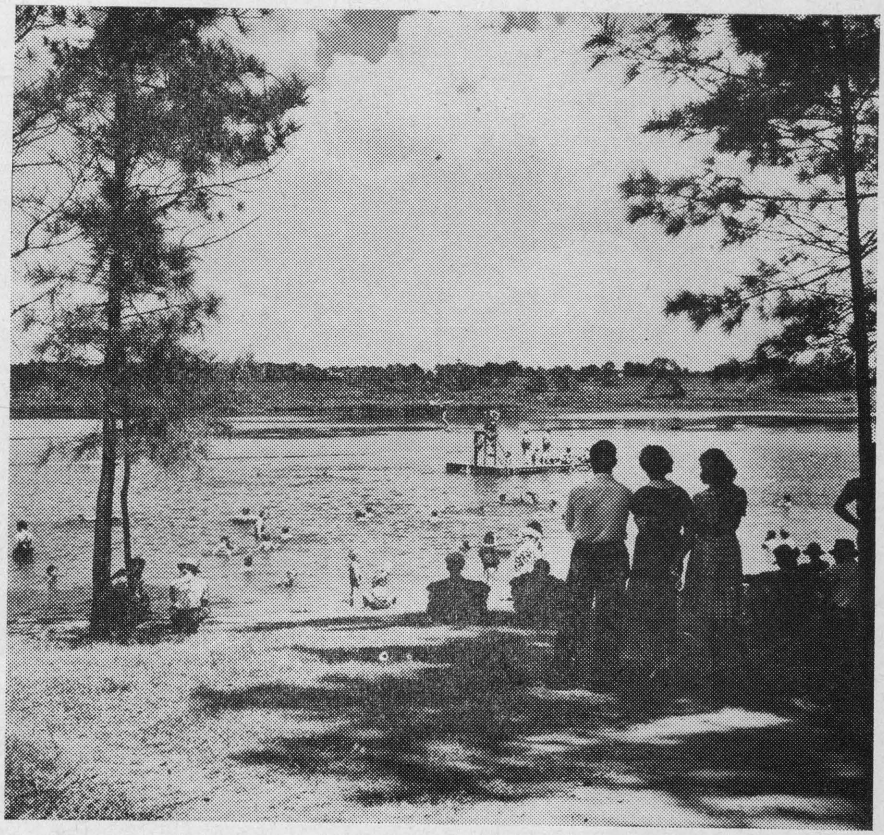
ADMINISTRATION

The administration of these National Forest areas involves a wide variety of activities. Management of the timber resource, watershed protection, protection from fire, disease and insects, the development and maintenance of recreation areas, special agricultural uses, grazing, wildlife, and the construction and maintenance of roads, buildings and other improvements such as fences, telephone system and lookout towers.

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Entrance to Ratcliff Lake Recreation Area, Davey Crockett National Forest.



Texas National Forests, Neches Ranger District Ratcliff Lake Recreation Area — Swimming.

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NATIONAL FORESTS

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The planning, organizing, supervising, coordinating, directing, budgeting and record keeping is the responsibility of the District Forest Ranger on each forest or district. The over-all coordination, policy, planning and supervision of the four forests is the responsibility of the Forest Supervisor.

TIMBER MANAGEMENT

Timber production is one of the primary activities. Approximately 115 million board feet of timber could be sold each year from the growth on the one billion eight hundred fifty million board feet of growing stock on these 658,000 acres. During the fiscal year 1948, 65,000,000 board feet sold at an average price of $18.00 per thousand feet.

Each of the four National Forests constitutes a Timber Management Unit or working circle. These are further divided into compartments containing about 3,000 acres each. Sales covering some of these compartments are made every year. The period between sales on the same area is called the cutting cycle, and varies between five and ten years, depending on the stand of timber per acre.

The trees to be cut are marked with paint, their volume obtained by tree measurement, the value appraised, and the total estimated volume is advertised for sale to the highest bidder. The average sale contains 2,000 MBM. Such sales are made by the Forest Supervisor and administered by the Ranger.

The District Ranger has authority to make small sales and to give to Forest residents free timer for their use.

The volume of timber that may be cut will increase as the younger stands reach maturity. At the present time we only cut an amount equal to approximately 30% of the stand per acre in order to build up our growing stock—our capital. Well stocked stands on moderately good sites are growing at the rate of better than 300 bd. ft. per acre per year. At present rates the growth is worth about $7.00 per acre per year. When all the stands have been built up to about 10,000 BM per acre, we can begin cutting the full amount of the growth. The present marking practices are designed to increase and improve the quality of the stands as rapidly as possible.

PLANTING

Thirty-six thousand acres of denuded lands were planted to pine between 1928 and 1942. The best of these will be thinned and will produce pulpwood this year.

RECEIPTS

25% of the gross receipts for these forests is returned to the counties for road and school maintenance. In addition, 10% of the gross receipts is returned for the U. S. Forest Service use in maintenance of our roads in these same counties. Thus, the more timber sold and cut, the greater the receipts and the greater the returns to the counties, not only in money but in work for the local people and business to local industries.

FIRE PROTECTION

In addition to the intensive protection given the National Forest lands, the U. S. Forest Service cooperates with the Texas Forest Service in the protection of more than one-half million acres of private lands inside the National Forest boundaries.

The Texas National Forest protective force under supervision of the Rangers consists of four full-time dispatchers, 16 regular lookouts, ten alternate lookouts and from one hundred to two hundred part-time fire fighters in organized crews. The number of organized crews is dependent upon the fire danger. Sufficient equipment such as rakes, council tools, flaps, shovels, back-pack water pumps, saws, axes and other hand tools are maintained in standard fire tool caches at strategic points to equip one thousand men. For heavy duty equipment there are 5 Pal Plows and Cletracs, and 2 Huski Plows for building fire lanes. One-half ton pick-ups and 1½-ton trucks are used for transportation of crews and equipment.

On the Angelina and Sabine districts the towers and mobile equipment are equipped with short-wave radio to facilitate communication. Radio will be installed on the Sam Houston and Davy Crockett as soon as possible.

The average number of fires per day over the past ten years on the Texas National Forests is 220, which have burned an average of 2,200 acres.

99% of all these fires, or 218, are man-caused. The destruction of timber, and particularly reproduction, the time spent on fires rather than on their regular jobs by the timber marking and road crews, and the cost to the taxpayers could be practically eliminated if all of the people would be careful with fire. It isn't any more logical to burn a timber crop than it would be to burn any other crop.

GRAZING AND RANGE MANAGEMENT

Grazing and range management is becoming increasingly important in East Texas. 5,000,000 out of the 8,000,000 cattle in Texas are now being grazed in East Texas. It is estimated that 20,000 cattle and 15,000 hogs graze free of charge on the open range on National Forest lands. Over 1,000 head of cattle graze on fenced allotments or pastures under permit by the Forest Service. A fee of 10c per head per month is charged on the fenced areas. Grazing permits are generally granted to local settlers living in or near the Forest.

The carrying capacity of the forage (blue-stem, broom-sedge and wire grass) is 20 acres per cow per year. The low palatability of these species, especially during the winter, precludes the possibility of satisfactory year-long grazing. Supplemental feeding or improved pastures are essential to successful stock raising.

Hogs, sheep and goats are not permitted on National Forest lands, particularly on fenced areas, because they destroy young growth and seedlings.

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Logging in the National Forests provides jobs.

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NATIONAL FORESTS

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HUNTING AND FISHING

All hunting and fishing on the Texas National Forests is under the jurisdiction of the State Game, Fish and Oyster Commission, and in accordance with the State Game Laws.

There are no Federal or State Game Refuges on National Forest lands at this time because of a conflict in control requirements in the present state laws and federal land laws. New legislation is now being considered which will eliminate this conflict and open the way for cooperative game management of National Forest lands.

Fishing is generally very good, particularly in the Neches, Trinity, Sabine and Angelina Rivers, and in the numerous small overflow lakes. There are 445 miles of fishing streams and 752 acres of lakes.

Deer, squirrel, fox, raccoon, muskrat, armadillo, rabbit, turkey (very few) alligator, mink, muskrat, o'possum, skunk, weasel and bobcat are on the National Forests. White-tailed deer are the only big game animals.

RECREATION

An estimated 98,000 people visited the Texas National Forests last year. The recreational facilities have been developed for the enjoyment of the public. When you use these picnic areas, camp grounds, bath houses or lakes, leave them as you would like to find them. Your example will be followed by others.

The following areas and facilities are available:

DOUBLE LAKE RECREATION AREA

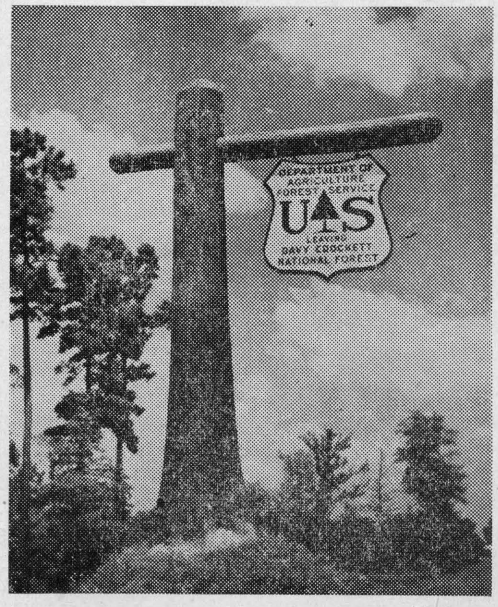
Sam Houston NF about 3 miles south of Cold Springs, Texas, on TT 216. Three hundred and ten acre area, 30-acre lake, 16 tables, 15 fireplaces, picnic shelter with tables and fireplaces, bath house, toilets, water developed and piped to fountains for drinking and other uses. This area is suitable for swimming, boating, fishing, picnicking and camping. (Across this lake from the public area is an organization camp area that may be rented for $5.00 per day. The camp consists of a combination kitchen and mess hall, bath house and toilet facilities and sleeping cabins. Area will accomodate groups up to 50).

STUBBLEFIELD LAKE

Sam Houston National Forest about 15 miles NW of New Waverly on TT 204A. Small 5 acre lake, 5 fireplaces, 2 picnic tables, latrine ,artesian well. This area is a place to more or less "rough it", and is suitable for picnicking, camping and fishing.

RATCLIFF LAKE RECREATION AREA

Davy Crockett NF 25 miles west of Lufkin on State Highway No. 105. Four hundred forty acre area, 80 acre lake, 16 tables and fireplaces, picnic shelter, large fireplace and table, bath house and toilet facilities, water developed and piped to fountains for drinking and other uses, 1 ½ miles of fishing trail, camping area. This area is suitable for picnicking, camping, swimming, fishing, boating, hiking. A Forest Service lookout tower is within a mile of this area. Some of the most beautiful stands of shortleaf and loblolly pine in Texas are to be seen within a 10-mile radius of this area.



PINE SPRINGS PICNIC AREA

Davy Crockett NF about 10 miles NE of Crockett on Texas Highway No. 21. Five acre area, flowing springs, 4 picnic tables, 3 fireplaces and 2 latrines. Area suitable for picnicking.

BOYKIN SPRINGS RECREATION AREA

Angelina NF about 15 miles SE of Zavalla on TT 313B. One hundred thirty seven acre area, 12 acre lake, 16 tables, 8 fireplaces, picnic shelter with fireplace and tables, bath house and toilets, 2 latrines, and water developed and piped to drinking fountains from large spring. Area suitable for picnicking, camping, swimming, boating and hiking. The approach to this area is through some very beautiful long-leaf pine plantations.

BANNISTER LAKE AREA

Angelina NF about 5 miles NE of Broaddus, Texas, on Farm-to-Market Road No. 10. Four and one-half acre lake, 2 tables, 5 fireplaces and latrine. Area suitable for picnicking and camping.

RED HILLS LAKE RECREATION AREA

Sabine NF about 4 miles north of Milam on Texas Highway No. 87. Five hundred acre area, 17 acre lake, 8 tables, 5 fireplaces, bath house and shelter combined, and toilets. Area suitable for picnicking, camping, swimming, fishing and boating.

BOLES FIELD FOX HUNTING AREA

Sabine NF about 7 miles east of Shelbyville on TT 100. Area 87 acres, springs, 14 tables, 6 fireplaces, shelter, latrines, water developed, amphitheater and stage, dog kennels and corral for use of Fox Hunters Association. Area suitable for picnicking and camping.

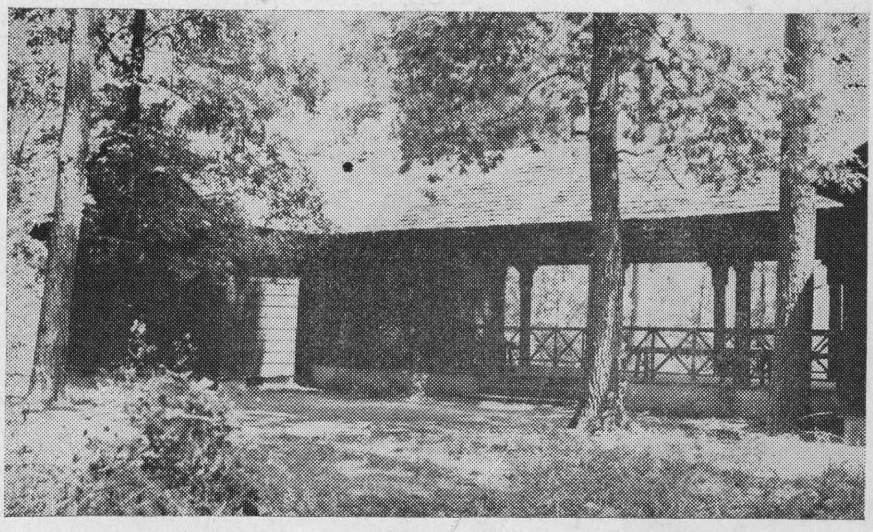
OTHER LAND USE

In addition to timber production, grazing and recreation, there are other uses being made of these forest lands. Small areas within the forests suitable for agriculture are leased to local people at nominal rentals. 327 special use permits for cultivation, pasture, residences and drift fences covering 6,125 acres are issued annually and helped augment the livelihood of that many families.

There are 40 special-use permits for easements and rights-of-way for pipe lines, telephone and power lines and roads.

Over 200,000 people reside within the counties, all or a part of which lie within the National Forest boundaries.

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Ratcliff Lake Bath House, Texas National Forests, Davey Crockett.

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NATIONAL FORESTS

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MAINTAINING TRUCK TRAILS AND IMPROVEMENTS

The maintenance and construction of Forest Service Roads and Improvements, such as houses, cabins, barns, garages, shops, fences, towers, and wells to facilitate administration of the uses and resources, is an important job. To do this work each Ranger District has an improvement foreman and a crew of skilled and unskilled laborers.

There are 754 miles of National Forest roads, 490 miles of telephone lines, 17 lookout towers and stations, 7 recreation areas, 4 lakes, 5 work centers, including shops and warehouses and other buildings, and 130 miles of hog-proof fence.

RESEARCH

The East Texas Branch of the Southern Forest Experiment Station was established in September 1945 at Stephen F. Austin State Teachers College, Nacogdoches.

The objective of this research center is to increase the productivity of our forest resource—in particular to provide the technical knowledge needed by our forest land managers. A staff of five professional foresters and assistants guided by an advisory council of forestry-minded individuals have made substantial progress on a research program which includes the following projects: (1) Improvement of depleted pine-hardwood stands, including a comparison of the cost and effectiveness of cutting, girdling and the use of Ammate in the deadening of undesirable hardwoods; (2) methods, costs, and returns in the intensive management of farm woodlands; (3) marketing East Texas timber products; (4) the effect of log size and quality on costs and returns in the production of rough green lumber; (5) improved techniques in cruising, mapping, stand inventory and protection of forest units; (6) comparison of methods-of-cutting and silvicultural systems in long-term, commercial shortleaf-loblolly pine management; (7) management of bottomland hardwoods.

Early results from several of the above studies are now available in the form of progress reports, publications or through observation of experimental areas on the San Jacinto and Stephen F. Austin Experimental Forests.

Recent increases in Congressional appropriations have made it possible to improve facilities on the experimental forests and to initiate three additional projects. Listed according to the priority rating assigned by the advisory committee they are as follows: (1) Utilization of interior hardwoods, in cooperation with the Texas Forest Service; (2) use of fire as a tool in brush control, regeneration and other phases of forest management; and (3) forest grazing in cooperation with the Agriculture Department of Stephen F. Austin College.

With the addition of new personnel and facilities the East Texas research center is in a position to give practical assistance to the timber growers and timber users of this area in the solution of their major problems.

BOYKIN SPRINGS provides swimming, fishing, and many other types of recreation.



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Indian Mound Nursery

TEXAS FOREST SERVICE

ALTO, TEXAS

By NORT BASER
Information Specialist
Texas Forest Service

Envision 21,500 acres of pine timber and a double row of windbreak trees more than 300 miles long! That's what the current crop of seedlings being grown at the A. & M. College Texas Forest Service Indian Mound tree nursery near Alto means to Texans.

There's a rough translation of the tree seedling production now being attained by the Texas Forest Service on its 89 acre tract. It represents a crop of 22 million young trees in all—about 21.5 millions off these in pines and another half million in other species.

Yes, the Texas Forest Service has made considerable progress in stepping up its seedling production. And it plans to keep on expanding to keep pace with the ever increasing demand and need.

We need only to look back to 1946 to realize the extent of progress. In that year the Indian Mound nursery produced slightly less than 2 million seedlings, of which 269,000 were hardwoods. Last year under the direction of D. A. Anderson the figures were boosted to more than 16 million, nearly 350,000 of which were windbreak stock.

What the future holds is limited only by the support and cooperation of our fellow Texans.

For instance, the Texas Forest Service wishes to install another nursery in West Texas so that greater quantities of badly needed windbreak seedlings may be grown. To provide sufficient stock of good quality, the seedlings must be grown in West Texas where soil, climatic and physiographic conditions are similar to those where the trees will be planted. Our West Texas neighbors have come to realize they need these windbreaks if they hope to farm successfully. The Texas Forest Service will help them, provided the next legislature sees fit to grant necessary appropriation requests.

By another year it is expected the present Indian Mound nursery will be capable of producing 25 to 30 million seedlings. Last year an additional 16 acres were leased adjacent to the existing 73-acre tract, and some of this will be ready to put into seedling beds.

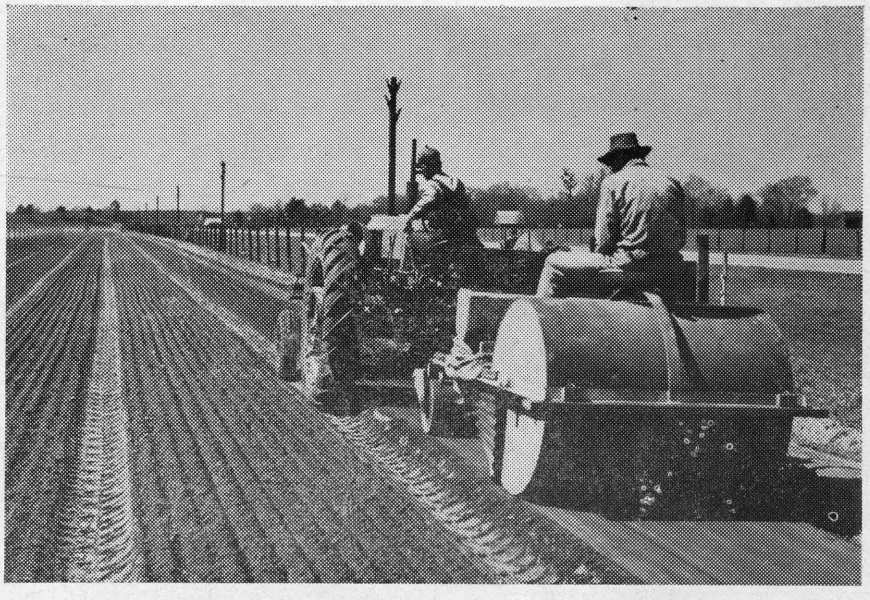
It might be interesting to point out that the current crop of 22 million trees is being grown on about 18 acres. As is the case in general agricultural practice, seedling growing, too, must follow the lines of crop rotation using cover crops to keep the soil at a high fertility level.

Operation of such a forest tree nursery is, as you may have suspected, truly a big business. It is big business despite the fact that the Texas Forest Service sells seedlings at the approximate cost of production. The cost for

Continued on Page 35



Western yellow pine windbreak 24 years old. At Texas Agricultural Experiment Station at Lubbock, Texas.



Planting time at the Texas Forest Service Indian Mound Nursery near Alto. The mechanical planter is sowing pine seeds in the beds which are four feet wide and 500 feet long. Each bed holds about 80,000 seedlings.

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Indian Mound Nursery

Continued from Page 34

all pine species is $2.50 per thousand. Other stock is priced at $3., $4., and $5. per thousand, depending on species. Nominal shipping charges are added.

Since the Texas Forest Service is not in competition with commercial nurserymen, no trees are sold for ornamental purposes. Purchasers must sign an agreement to that effect. They must also agree to furnish reasonable reports on their plantings and try to keep fire and disease from wasting their efforts. It's just sound business.

Hand in hand with this program of expanded production, the Texas Forest Service has developed a series of mechanical and technical advancements.

Last winter a mechanical grading table was installed. Supplemented with a speedy automatic bundle tyer, the moving belt of the table enabled 20 workers to grade a maximum of 700,000 seedlings for shipment in one day. Hazards of winter weather and a resulting slowdown in lifting operations prevented them from shipping this quantity daily, however.

During the peak of lifting and shipping operations, W. L. (Larry) Marshman, resident nurseryman, keeps as many as 65 to 70 laborers busy at the Indian Mound nursery. A minimum of five men are employed permanently.

The new crop is planted each March. A mechanical planting machine is used to sow the seed in beds four feet wide and 500 feet long. Each bed produces about 80,000 plantable seedlings. After planting, the beds are covered with burlap to keep the soil moist and to prevent birds from eating the seed. It takes about two weeks for the seed to germinate, after which the burlap is removed.

The seedlings need what amounts to an inch of rainfall each week. A 500,000 gallon spring-fed reservoir helps nature provide the water. An overhead irrigation system, which requires 3.8 miles of pipe, supplies water at the rate of 750 gallons a minute.

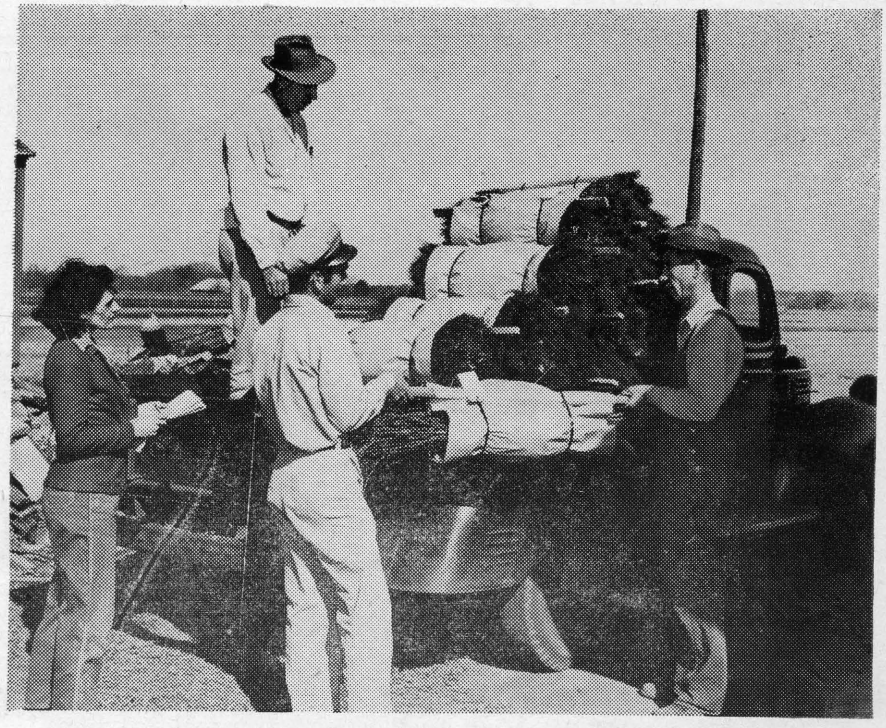
Weeding during the development of seedlings once posed a major problem. Recent research in spraying pine seed beds with mineral spirits has provided an economical means of weed control, thus eliminating costly hand weeding operations. Using a 350-pound pressure Mean sprayer, approximately 40 gallons of mineral spirits per acre keeps the pine seed beds free from weeds. The hardwoods are harmed by this spray, however, and must be weeded by hand.

Chemical sprays applied at regular intervals also keep insect and disease damage at a minimum.

Yes, mass tree seedling production is a big job. But it's the answer toward providing our forests of the future and toward supplying the windbreaks so desperately needed by West Texas farmers. Think of it the next time you pass a plantation or windbreak. Or visit the Indian Mound nursery next time you are in the vicinity of Alto.



The mechanical grading table at the Indian Mound Nursery speeds up the shipping of tree seedlings. The Texas Forest Service reached a peak of 700,000 young trees shipped in one day.



Texas Forest Service Seedlings ready to ship from the Indian Mound nursery. Larry Marshman, Resident Nurseryman, is supervising loading from his perch in the truck bed.

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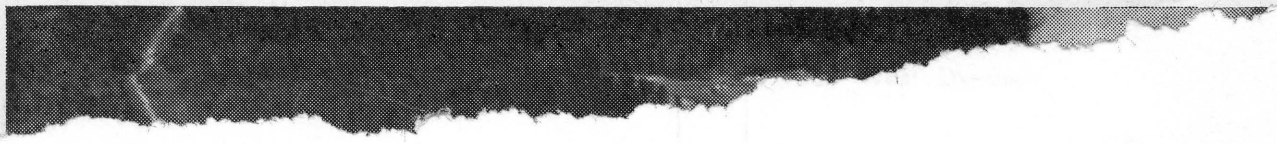
TEXAS FOREST FESTIVAL VISITORS

Protection and careful management of such forests are necessary for the future prosperity of this section of the state.

From the tall pine trees of East Texas to the paper similar to this written on is the story of "Southland Paper Mills, Inc."

We realize the necessity of protecting our forests and to publicize the many products derived from them, therefore we are proud to take part in the "Texas Forest Festival" and work toward these accomplishments.

Air View, Southland Paper Mill



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In 1942, Texas Power & Light Company served 176,000 customers . . . in 1946, 208,000 . . . and in 1947, 230,000!

The amount of electricity needed to supply the growing area this company serves tells a similar story. During 1947 this company supplied its customers with 27 per cent more electricity than in 1943.

The steady increase in need for electric power came at a time when further expansion of generating facilities was impossible, because during the war, all the big turbo-generators manufactured were diverted to the war program by the government.

It was the normal peacetime reserve electric-capacity this company had maintained that enabled it to supply the tremendous increase in electric power demand. This reserve is now about used up, and our big problem is to keep you supplied with electricity until new generators are received and installed.

The new generators are coming . . . three small ones are already installed and operating . . . two big ones are scheduled for delivery this year and next year. This new generating capacity will total 81,000 kilowatts (108,000 electric horsepower) to supplement our present 294,000 horsepower of electric power resources.

But between now and the time all this new capacity can be delivered and installed, there may be occasions when it will be a tight squeeze to make existing power supply go around. However, we want to assure you that we are working hard to the end that electric power may continue to flow to you in whatever quantities you may need.

TEXAS POWER & LIGHT COMPANY

JOHN W. CARPENTER, *President and General Manager*