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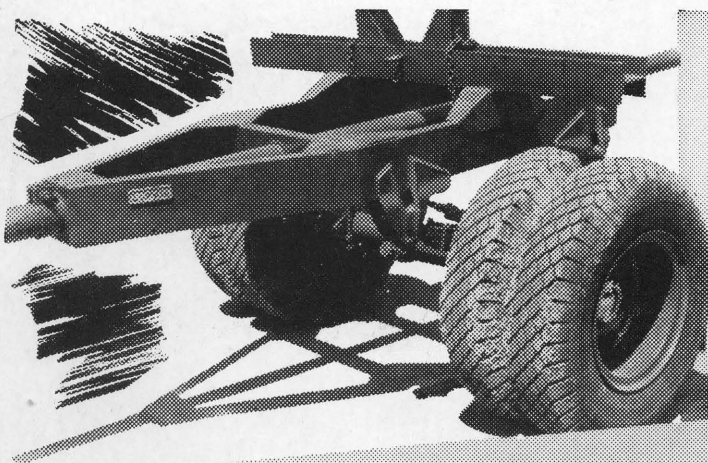
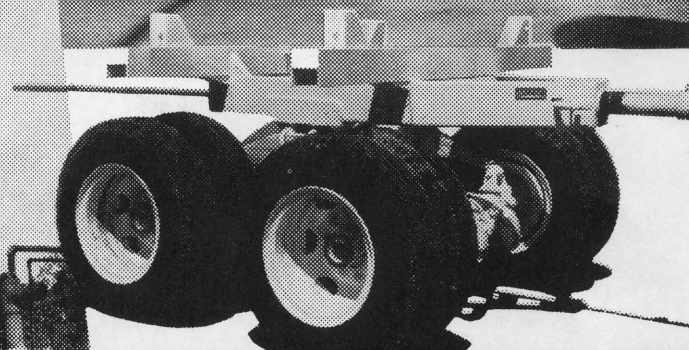
Texas



FOREST FESTIVAL

LUFKIN — SEPT. 26 — OCT. 1, 1949





- **LARGEST FOUNDRY AND MACHINE COMPANY in the SOUTHWEST.**
- **GREW UP WITH THE LUMBER INDUSTRY.**
- **BEGAN BUSINESS WHEN LUMBERING WAS THE PRINCIPAL BUSINESS IN DEEP EAST TEXAS.**
- **LUFKIN EQUIPMENT NOW FOUND IN OIL FIELDS THROUGHOUT THE WORLD.**
- **LUFKIN TRUCK-TRAILERS FOUND IN ALL FIELDS OF TRUCK TRANSPORTATION.**
- **LUFKIN'S MILL SUPPLY DIVISION SERVES SAWMILLS, INDUSTRIAL PLANTS, HARDWARE AND AUTOMOTIVE FIELDS OF TEXAS.**

LUFKIN FOUNDRY & MACHINE CO.

LUFKIN, TEXAS, U. S. A.

1949 Texas Forest Festival Catalog

An Official Publication of the Angelina
County Chamber of Commerce

ED HOLDEN
Editor

HAROLD LEE
Chairman
Publicity Committee

DORIS CARTER
Ass't. Editor

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OUR COVER

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Foreword

THE TEXAS FOREST FESTIVAL was organized to help the development of a more prosperous East Texas, through the encouragement of improved forestry practices throughout the timber belt of East Texas.

The first Forest Festival was held in 1938, and succeeding Forest Festivals have been held every year since then with the exception of the war years. Forest resources have been the basis for the prosperity and development of Lufkin and the surrounding area. The importance of these resources are stressed in the annual Texas Forest Festival, which will be held this year September 26, through October 1.

To insure the continuation of the Forest Festival, the Angelina County Chamber of Commerce in 1947 took over its control and operation, through the purchase of the stock of the Angelina County Fair Association. Included in the agreement by which the Chamber of Commerce took over this stock was a provision that any profits resulting from the operation of the Festival can be spent only for improvement of the Festival and Festival Grounds.

The 1949 Forest Festival will offer its many visitors not only a complete forestry and livestock show, but rapidly expanding sawmill and lumber equipment exhibits. Leading manufacturers will show the latest developments of equipment for the lumber industry.

Saturday, October 1, has been designated as Lumbermen's Day. On Saturday afternoon lumbermen will gather from all over East Texas to compete for prizes in log sawing contests, log chopping contests, and log loading contests of many different types. This will be the high point of the week's program and will emphasize the importance of

modern equipment in the lumber industry in Texas.

Lufkin was selected as a site of the Texas Forest Festival because of its development as the center of the lumber industry in Texas. In Lufkin is located the headquarters of the Division of Forest Protection of the Texas Forest Service, the Forest Products Laboratory of the Texas Forest Service, and the headquarters for U. S. Forest Service operations in Texas.

In the surrounding area the largest sawmills in the south turn out millions of board feet of pine and hardwood lumber. In addition these mills produce many other timber products.

The Southland Paper Mills, Inc., was founded in Lufkin with the help and support of citizens of this area. This company took the unproven Herty process and developed it from a laboratory experiment to a practical system for making newsprint out of southern pine. The success of this development has provided East Texas with another great industry. The Southland Paper Mills of Lufkin is at the present, the only newsprint mill in the country using southern pine as a raw material, although since the process has been proven in Lufkin another mill is now under construction in Georgia.

Finished hardwood lumber is 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 produc-

tion 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 for co-operation 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 1949 Texas Forest Festival is the result of a co-operative community effort, and the same splendid unselfish co-operation in future years should bring even greater Festivals and Equipment Shows with horizons unlimited!

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Texas Forest Festival

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Information

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**

Important

It will be considered a special favor if visitor 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 26-October 1, 1949, 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 26 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 lights for six days' services from September 26 to and including October 1, 1949. 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 26.

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.

National Forests of Texas

By **CARL G. KRUEGER**
Forest Supervisor, Texas National Forests

Proclaimed October 15, 1936, with prior approval of the Texas Legislature, the four Texas National Forests were named Davy Crockett, Sam Houston, Sabine and Angelina, to reflect the history and geography of the State. The gross area within the proclaimed boundaries totals 1,714,364 acres of which an area of 658,000 acres is publicly owned and administered by the U. S. Forest Service.

Lufkin is headquarters for the four units, which are divided into five Ranger Districts for administrative purposes. District Rangers' offices are located as follows:

Angelina National Forest
Lufkin

Sabine National Forest
San Augustine

Davy Crockett National Forest
(Neches District) Crockett
(Trinity District) Groveton

Sam Houston National Forest
Huntsville

Located in Angelina, Jasper, San Augustine, Nacogdoches, Shelby, Sabine, Houston, Trinity, Walker, Montgomery and San Jacinto county, the National Forests comprise 11 per cent of the total area of these counties.

Purpose of 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 maximum timber crops on a sustained yield basis; 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.

Purchased about 14 years ago as more or less heavily cutover lands, the Texas National Forests have since produced a total revenue of \$3,475,000 from 363 million board feet of timber cut to improve the

stands. Meanwhile the total volume of timber on the National Forests has increased several fold.

Protection and preservation give a resource aesthetic value only. 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.

Operation and Administration

A wide variety of activities are involved in the administration of these national forests. Among them are management of the timber resource, watershed protection, protection from fire, disease and insects, development and maintenance of recreation areas, grazing,

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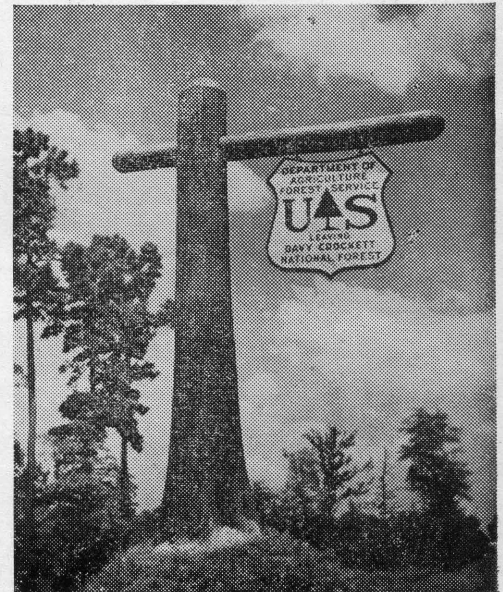


Photo Courtesy U. S. Forest Service
Entrance Davy Crockett National Forest



Photo Courtesy U. S. Forest Service
Fishing on Bouton Lake, Angelina National Forest

NATIONAL FORREST—

(Continued from Page 8)

wildlife, special agricultural uses, and the construction and maintenance of roads, buildings, telephone systems and lookout towers. Each District Forest Ranger is responsible for the planning, organizing, supervising, directing, budgeting and record keeping on his unit. The over-all co-ordination policy, planning and supervision of the four forests is the responsibility of the Forest Supervisor.

Receipts

To the counties for school system and road maintenance is returned 25 per cent of the gross revenue derived by the Texas National Forests from every source. This includes timber sales, grazing permits, land rentals and miscellaneous receipts. In addition, 10 per cent of the gross receipts is returned to the U. S. Forest Service for use in maintenance of our roads in these same counties. To date, about \$800,000 has been returned to the counties via the 25 per cent fund and since 1944 an average of about \$100,000 has been returned each year.

It is evident that benefits to the counties, in terms of money, local employment and trade, vary directly with the volume and value of National Forest timber cut and sold.

Timber Management

We estimate that the 658,000 acres administered by the Forest Service now support about two billion board feet of growing timber and the growth on these trees amounts to about 115 million board feet per year. At the present time we cut only an amount equal to approximately 30 per cent of the stand per acre in order to build up our growing stock or forest capital.

The volume of timber that may be cut will increase as the younger stands reach maturity and when all stands have been built up to about 10,000 BM per acre, we can begin cutting the full amount of the growth. Well stocked stands on moderately good sites are growing at the rate of 300 bd. ft. or better per acre per year, worth about \$7.00 at present prices.

During Fiscal Year 1949, 67,400,000 bd ft. sold for \$1,177,000.00 an average of \$17.47 per thousand feet. The volume cut during the same period was 60,000,000 bd. ft.

Under a selective system designed to increase and improve the quality of the stands as rapidly as possible, the trees to be cut are marked with paint and their volume is obtained

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Photo Courtesy U. S. Forest Service

Ratcliff Lake, Davy Crockett National Forest

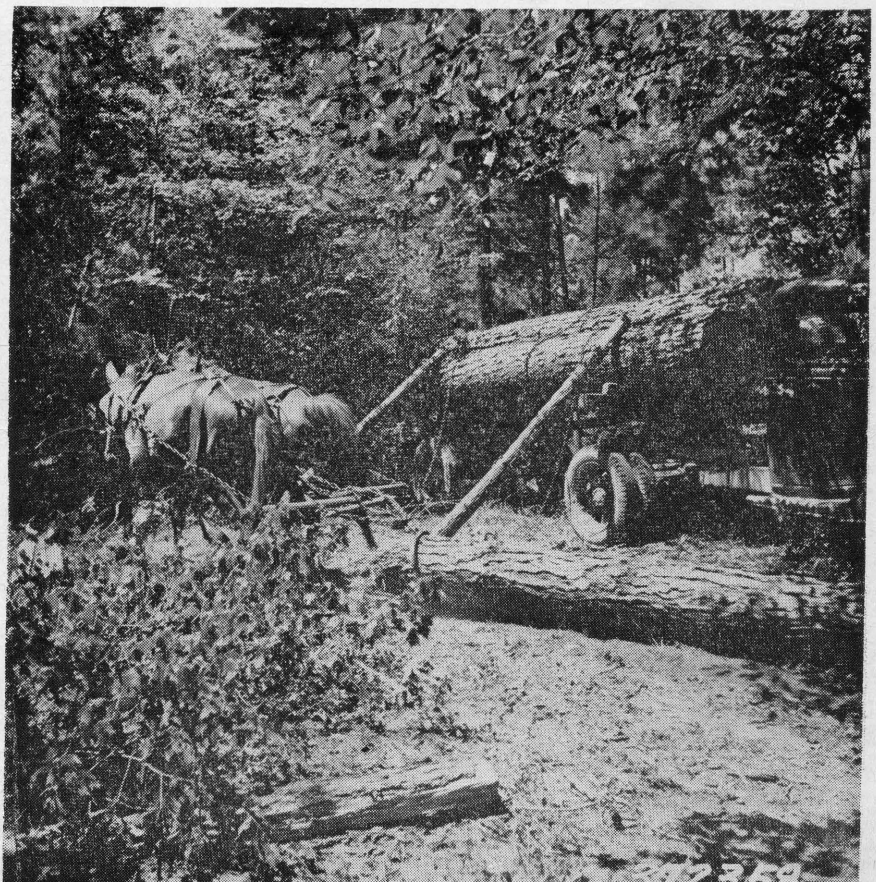


Photo Courtesy U. S. Forest Service

Loading Shortleaf Pine Logs, Sabine National Forest

Serving All East Texas



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NATIONAL FOREST—

(Continued from Page 9)

by tree measurement. The value of the timber is appraised and the total estimated volume is advertised for sale to the highest bidder. About 2,000 MBM is contained in the average sale made by the Forest Supervisor and administered by the Ranger.

District Rangers have authority to make small sales and give certain timber to Forest residents free of charge for domestic use.

Planting

37,000 acres of denuded lands were planted to pine between 1935 and 1949. The best of these were thinned and produced pulpwood last year.

Fire—The Enemy

Wildfire is the most dangerous and costly enemy of the forest. An average of about 200 fires occur annually on the National Forests and to combat them the U. S. Forest Service maintains a protective force, under supervision of the Rangers, consisting of 4 fire dispatchers, 16 lookouts and 10 alternate lookouts and 100 to 200 fire-fighters in organized part-time crews. Spotted at key points and ready for instant use is a fleet of mechanized units which are dispatched for heavy duty work. Huski Plows and tractor-drawn Pal Plows build fire lanes. Power-wagon tank trucks furnish high pressure water when needed and trucks from ½- to 1½-tons furnish the transportation for crews and equipment.

As in any war the man on the line bears the brunt of the attack and hand tools such as council rakes, flaps, shovels, back-pack water pumps, saws and axes are maintained in standard fire tool caches at strategic points, in sufficient quantity to equip 1000 men.

Shortwave radio installed in towers and mobile equipment facilitates rapid communication on the Angelina, Sabine and Sam Houston. Radio will be installed on the Davy Crockett as soon as possible.

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 within the National Forest boundaries.

99 per cent of all forest fires are man-caused and man could prevent 99 per cent of the blazing destruction which overruns thousands of acres of productive timber land each year.

Every day that Forest Service tim-

ber crews and road crews spend fighting fire reduces the amount of timber that we can sell, decreases returns to the counties and diminishes somebody's payroll.

Wildfire is your enemy!

Fire—The Friend

Wise men long ago observed that fire is a good servant but a bad master—and so it is within the forest.

Recognizing the possibility that fire might be made to serve a useful purpose in the management of pine timberlands, the Forest Service has for many years watched and experimented with fire under controlled conditions. The conclusion has been reached that fire, applied in a prescribed fashion in the **proper place**, at the **right time**, under **proper weather conditions** can aid in the regeneration of longleaf pine, help control the longleaf pine disease called "brown spot" and diminish the danger of excessive damage by reducing the amount of litter or "rough" on the forest floor.

The application of fire for specific purposes and under carefully considered conditions is called "prescribed burning" and is now being done on longleaf areas of the Texas National Forests by specially trained men who have at their disposal the best weather instruments and equipment that is available. Prescribed burning should **not** be attempted without proper preparation, training and equipment. Danger lurks in even the friendly fire and precautions must be taken to keep it in its place.

Grazing

East Texas now supports more than 5,000,000 head of cattle, or about 63 per cent of the total number grazed in the State. Grazing and range management become progressively more important as the load increases. It is estimated that 20,000 cattle and 15,000 hogs graze free of charge on the open range of the National Forests. Over 1,000 head of cattle graze on fenced allotments or pastures under Forest Service permit. Grazing permits are generally granted to local residents in or near the Forest and a fee of 10 cents per head per month is charged on fenced areas.

Supplemental feeding or improved pastures are essential to successful stock raising. The carrying capacity of the forage (blue-stem, broom sedge and wire grass) is 20 acres per cow per year and the palatability of these species is relatively low, particularly during winter. Under such conditions, satisfactory year-long grazing is not possible without feeding.

(Continued on Page 13)

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NATIONAL FOREST—

(Continued from Page 11)

Because they destroy young growth and seedlings, hogs, sheep and goats are not permitted on National Forest lands, particularly on fenced plantations.

Hunting and Fishing

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

White-tailed deer are the only big game animals on the National Forests, but squirrel, fox, raccoon, muskrat, armadillo, rabbit, alligator, o'possum, skunk, weasel and bobcat are fairly plentiful and a few turkey and mink are found.

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

There are no Federal or State Game Refuges on National Forest lands at this time, but recently enacted legislations has opened the way for co-operative game management of national Forest lands and



Photo Courtesy U. S. Forest Service

Trail Markers Ratcliff Recreation Area

proposed refuges are now under consideration.

Forest Recreation

Developed by the U. S. Forest Service for the enjoyment of the public, the Texas National Forests recreational facilities were visited by over 100,000 people last year. The Forest Rangers appreciate the example set by considerate visitors who leaves the picnic areas, camp grounds, bath houses and lakes in the condition in which they like to find them.

These are your playgrounds and you are always welcome:

Ratcliff Lake Recreation Area

Davy Crockett National Forest 25 miles west of Lufkin on State Highway no 103. 440 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, 1½ 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 the lake. 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.

Boykin Springs Recreation Area

Angelina National Forest about 15 miles Southeast of Zavalla on Forest Service Road 313. 137 acre area, 12 acre lake, 16 tables, 8 fireplaces, water developed and piped to drinking fountains from large spring, picnic shelter with fireplace and tables, bath house and toilets, 2 latrines. Area suitable for picnicking, camping, swimming, boating

(Continued on Page 14)

LUFKIN FARM SUPPLY

The Home Of

PURINA CHOWS

Baby Chicks - Poultry Equipment

—and—

FARM SUPPLIES

NATIONAL FOREST—

Continued From Page 13

and hiking. The approach to this area is through some very beautiful longleaf pine plantations.

Double Lake Recreation Area

Sam Houston National Forest about 3 miles south of Cold Springs, Texas, on Forest Service Road No. 216. 310 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 the lake from the public area is an organization camp 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 cabin. Groups up to 50 can be accommodated.

Red Hills Lake Recreation Area

Sabine National Forest about 4 miles north of Milam on Texas Highway No. 87. 500 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 National Forest about 7 miles east of Shelbyville on Forest Service Road 100. Area 87 acres, springs, water developed, 14 tables, 6 fireplaces, shelter, latrines, amphitheater and stage, dog kennels and corral for use of Fox Hunters Association. Area suitable for picnicking and camping.

Stubblefield Lake

Sam Houston National Forest about 15 miles Northwest of New Waverly on Forest Service Road 204 A. Small 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.

Banister Lake Area

Angelina National Forest about 5 miles Northeast of Broadus, Texas, on Texas Highway No. 147. 4½ acre lake, 2 tables, 5 fireplaces and latrine. Area suitable for picnicking and camping.

Pine Springs Picnic Area

Davy Crockett National Forest about 10 miles Northeast of Crockett

on Texas Highway No. 21. 5 acre area, flowing springs, 4 picnic tables, 3 fireplaces and 2 latrines. Area suitable for picnicking.

DIVERSIFIED USE

Multiple land use is an underlying principle of National Forest Management. In addition to timber production, grazing and recreation, small areas suitable for agriculture within the forests are leased to local people at reasonable rentals. More than 300 special use permits for cultivation, pasture, residence and drift fence are issued annually and help augment the livelihood of that many families.

Special use permits are also issued to cover right-of-way for more than 40 roads, pipelines, power and telephone lines which cross National Forest land.

Over 200,000 people reside within the counties in which the Texas National Forests are located.

Forest Service Roads and Other Improvements

The forest Service maintains and constructs roads and other improvements such as telephone lines, towers, houses, cabins, shops, wells and fences which are necessary to facilitate administration of the forest resources and uses. Each Ranger District has an Improvement Foreman and a crew of workmen to handle these jobs. On the Texas National Forests are 754 miles of Forest Service roads, 490 miles of telephone lines, 17 lookout towers and stations, 7 recreational areas, 4 developed lakes, 130 miles of hog-proof fence and 5 work centers, including shops, warehouses and other buildings.

Research

Established less than four years ago, the East Texas Branch of the Southern Forest Experiment Station has already contributed much to forestry practices in Texas. A staff of six professional foresters with clerical and field assistants has headquarters at Stephen F. Austin State College, Nacogdoches.

The three experimental forest units total about 6,000 acres.

Active studies include: (1) Improvement of depleted pine hardwood stands including a comparison of the costs and effectiveness of cutting, girdling, and the use of ammate in the deadening of undesirable hardwoods; (2) methods, cost 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 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; (8) utilization of inferior hardwoods, in co-operation with the Texas Forest Service; (9) use of fire as a tool in brush control, regeneration and other phases of forest management. Forest grazing studies are also needed and will be undertaken as soon as finances permit.

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 and on the E. L. Kurth Tract provided for management research by the Angelina County Lumber Company.

Two studies have been completed and results are now available. "Marketing East Texas Timber Products" by G. R. Gregory gives the specifications, prices, and marketing conditions for various products of East Texas.

"Lumber Values for East Texas Pine Logs" by G. R. Gregory and Hubert L. Person, was issued March 1949, as Occ. Paper No. 113 of the Southern Forest Experiment Station. This report gives information of direct value to timber growers and lumbermen on the effect of size and quality of pine logs on lumber production, overrun and waste, lumber grades, production costs and profits.

Preliminary results of a comparison of 8 different methods of cutting (even-aged and all-aged) are reported in "Guide to Methods of Cutting Plots", Southern Forest Experiment Station, May 1949.

The above highlights cover only a small part of the interesting work being carried out at the East Texas Branch. Early information is also available on the cost and establishment of hardwood deadening methods, costs and returns in the management of the farm woodland area, and on cruising, inventory and other forest management practices.

For a complete picture, it is necessary to visit the Forest, study the experiments, and discuss the various experiments with members of the staff. Visitors are welcome at any time. For copies of the above reports, or for information regarding current results, contact Officer-in-Charge, Southern Forest Experiment Station, East Texas Branch, c/o Stephen F. Austin State College, Nacogdoches, Texas.

Fence Post Treatment

By E. D. MARSHALL

Head Forest Products Department, Texas Forest Service
Part of the Texas A. & M. College System

Current interest in fence post treatment indicates a need for the listing of general information on this subject, particularly with respect to treatment using pentachlorophenol. If it is desired to treat with creosote, consult the reference entitled: "The Preservative Treatment of Farm Timbers", U. S. Department of Agriculture, Farmers' Bulletin 744.

The Forest Products Department, Texas Forest Service, Texas A. & M. College System is currently conducting an experiment on the treatment of posts with pentachlorophenol by the cold-soaking method but final results are not available. Therefore, it must be realized that the following suggestions are only in line with the best information now at hand—meagre as it is.

PENTACHLOROPHENOL

Pentachlorophenol is produced by the Monsanto Chemical Company, St. Louis, Missouri, and the Dow Chemical Company, Midland, Michigan. It may be purchased from either the Chapman Chemical Company (distributors for Dow) 707 Dermon Building, Memphis, Tennessee, or the Wood Treating Division (distributor for Kaufman, Texas).

Pentachlorophenol is purchased in the mixed direct obtain the use of the present price on from 20c per 1000 lbs.) to 200c per 100 to 2,000 lbs. of the oil (available in 4,000 gallon ranges around different types of equipment for the cold-soaking process. These oil prices are in the neighborhood of 7c per gallon. The line pentachlorophenol is appropriate solvent for the cold-soaking process. It is identified by a label from the distributor of the equipment and the necessary preservative by the manufacturer.

Anyone interested in mixing with crystals and oil, consult with either this Department and/or the chemical firm producing pentachlorophenol.

The most feasible means of pre-



Photo Courtesy Texas Forest Service

Experimental fence post treatment at the Forest Products Research Laboratory, Lufkin, Texas. Southern Yellow Pine is being treated with

Left to right:

sed. Also, it at neoprene lining pentachlorophenol contact of concentrate with void inhaling ion is heated.

PROCESS

ion of pentachlorophenol of the

in a treating eight, allow when the Insofar as ded together l and practi s discussion l such equip- ting vertical

urgent in the cold-soaking process

Caution—If it is desired to heat the solution, do not use the above diluents but obtain from the manufacturers the types of oils suitable for heating which will not flash at

treatment instead of horizontal treatment is desirable because the butt end of the post (placed facing down) will absorb more preservative.

(Continued on Page 17)



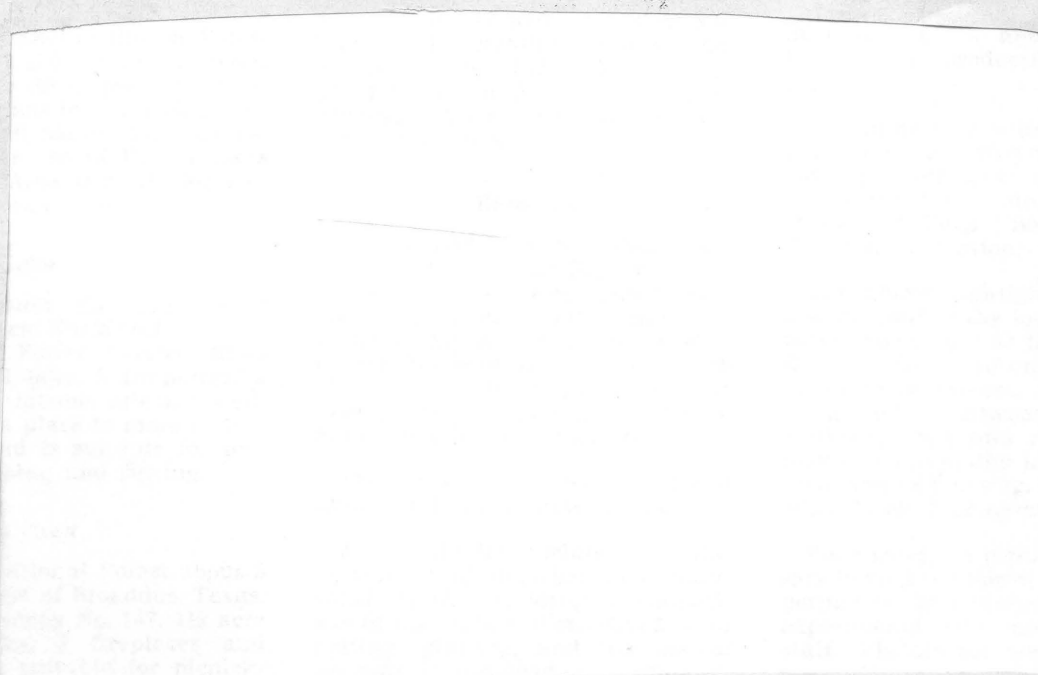
Welcome--

TEXAS FOREST FESTIVAL VISITORS

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ment of such forests are neces-
sary 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."

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Forest Festival" and work toward these accomplishments.



SOUTHLAND PAPER MILLS, Inc.

FENCE POST TREATMENT—

(Continued from Page 15)

vative per cubic foot than the top end due to the hydrostatic head of oil. This permits better treatment for that portion of the post to be placed in the ground which is more subject to decay and termite attack.

3. Three oil drums welded together to form one vertical tank will handle posts up to 8 feet in length. It is preferable to place this along a steep hill or in the ground so that posts may be placed into, and removed from, the tank with ease. Of course, a shorter tank may be used and by reversing the end of the post the entire post may be treated in two separate soaking operations.

4. Both southern yellow pine sapwood and sweet gum sapwood absorb pentachlorophenol satisfactorily and are desirable woods for fence posts.

5. Where feasible, improvement cuttings—such as thinnings—should be used. Debark the posts and store crib fashion for air seasoning. A month or two during the summer or two or three months during the winter should be a sufficient period for air drying posts prior to treatment.

6. It is preferable to treat posts by the cold-soaking process in Texas from around June 1 to October 1.

7. It appears preferable to place the posts in the solution in the late afternoon on a hot day if a choice as to time of day can be worked out.

8. Submerge the posts (butts **down**, if a vertical tank is used) in the solution (the oil should cover the tops of the posts) and determine the cubic feet of wood by displacement of the oil. (Place weights on top of the posts to hold them down in the solution.)

Example:

An ordinary 55-gallon oil drum is 22½ inches inside diameter. This is equal to approximately 2.75 square feet. Roughly, 1 inch of depth in the oil drum equals 0.2 cubic feet. Roughly, 1 inch depth in the oil drum will hold 10 pounds of the 5% pentachlorophenol solution.

9. For most conditions, 6 pounds of preservative per cubic foot of wood is satisfactory. In cases where posts are to be subjected to severe conditions, 8 pounds per cubic foot is recommended.

Example:

(1) Assume that immediately after immersion that the oil is displaced 50 inches in an oil drum tank with a diameter of 22½ inches.

(2) Then, 50 (inches) × 0.2 cu. ft. = 10 cu. ft. of wood.

(3) If 6 lbs./cu. ft. absorption is desired, then 6 lbs./cu. ft. × 10 cu. ft. = 60 lbs. of preservative required.

(4) 60 lbs. ÷ 10 lbs./in. = 6 inches, depth of preservative necessary to obtain desired absorption. In other words, after the solution has dropped 6 inches the posts have absorbed the required amount.

10. **Absorption** alone is not the only criteria of good treatment. Cut several posts at random about 2 feet from the butt end to determine if **penetration** is satisfactory. The oil should penetrate at least ½ inch into the wood all the way around the post. Because of creep of the oil across the surface, it is advisable to cut a 6 inch section for sampling and split it lengthwise through the pith to accurately observe the penetration. It may be necessary to add a small amount of dark oil to the preservative solution before treatment to determine penetration on the basis of color differences.

11. When the posts are not completely submerged in the preservative solution, obviously the above method of calculating the amount needed for absorption is not valid. In such cases, merely multiply the inches of oil displacement by 0.2 Cu. ft. This will give the cubic feet of wood to be treated. Then mark the level of the oil solution after the posts have been placed in the tank—add one gallon of preservative for each cubic foot of wood to be treated and leave the posts in the preservative until the oil level has dropped to the level before the additional oil was added.

12. Keep the tank covered to prevent evaporation of the preservative and to prevent entry of water into the tank during rains. A piece of tar paper should serve satisfactorily when the tops of the posts are below the top of the tank. If the posts protrude above the top of the tank, some type of overhead roofing should serve the purpose.

13. For additional information on wood preservation, address your inquiry to the Forest Products Department, Texas Forest Service, Texas A. & M. College System, P. O. Box 460, Lufkin, Texas.

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LUFKIN, TEXAS

FORESTRY, AGRICULTURE AND LIVESTOCK EXHIBITS

Forestry Exhibits

Participation by FFA Boys and 4-H Boys

Object of Forestry Exhibits

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 Exhibits 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 bare of decorations and the exhibit and dressings will be left to the initiative of the exhibitor. Each exhibit booth will be 7' 8" wide and 7' deep, and have a backboard 5' high.

Exhibit Subjects

Any subject dealing with 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 co-operation with the County Agents for the 4-H Club group and by the Vocational Agricultural Supervisor in co-operation with the Vocational Agricultural 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 25, and shall remain in place until the end of the Texas Forest Festival October 1, 1949.

Judging will be conducted at 9:00 A. M., Monday morning, September 26, 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 1000 points

all - 600 pts to qualify for membership

Awards For Exhibits

All awards will be made by the Texas Forest Festival, in co-operation 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. \$50.00 cash to each of the other forestry exhibits.

Agriculture Exhibit

Participation By FFA Boys and 4-H Boys.

1. No agriculture exhibit will be eligible to compete for Community Awards unless it is set up by 8:00 A.M., the morning of the opening day of the Festival.
2. No premium shall be awarded if the exhibit is unworthy.
3. Agriculture booths will be scored as follows:

(Continued on Page 21)

(Continued from Page 20)

Score Card Score
Possible

I. General Appearance 125

1. The exhibit is attractive or pleasing to the eye.
2. The exhibit shows unity by featuring one central idea.
3. The exhibit brings out clearly, a well defined purpose.
4. The exhibit is artistic and neat in appearance.

II. Educational Value 250

1. The exhibit deals with a current and important problem in the local community or area.
2. The exhibit teaches an important lesson.
3. The exhibit presents striking and authentic information.
4. One central theme or idea is carried out.
5. The lesson taught has practical application in the local community.
6. The booth makes a self-explanatory presentation of the problem and its solution.

III. Arrangement 125

1. The arrangement results in balance of exhibit on the floor space and on the background. There is also balance between the floor of the booth and the background.
2. All miniature objects and layouts are proportionately arranged and balanced.
3. The booth appears to contain the proper amount and size of items and does not present a crowded or bare appearance.

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.

Lufkin, Sept. 26-Oct. 1, 1949

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 13 home demonstration clubs of Angelina County. Mrs. Arthur Cloyd, Sr., 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 the council, under the direction of Mrs. Wade Gilliken, 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 September 17, 1949.

All entries must be in place not later than 11:00 A. M., September 26, 1949. (Exception: The only exception to the above rule is that cattle which are being milked may be entered for judging not later than 11:00 A. M., Tuesday, September 27, 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 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 months to be eligible to show. Any bull over thirty-six months old that has not dropped to his service a living calf during the twelve 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 livestock during the week of the Festival.

Each exhibitor must be present to show his animal at the time specified for the judging. If he is not present the animal will not be judged and no premium will be given.

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 27, at 9:30 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.

(Continued on Page 22)

Dairy Cattle Show

(Continued from Page 21)

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:

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

Purple Ribbon	5 Pts.	\$15.00
Blue Ribbon	4 Pts.	12.00
Red Ribbon	3 Pts.	9.00
White Ribbon	2 Pts.	6.00
Yellow Ribbon	1 Pt.	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 as follows:

First Prize	- - -	\$15.00
Second Prize	- - -	10.00
Third Prize	- - -	7.50
Fourth Prize	- - -	5.00

Swine Show

Classes:

Boars

1. Boar under 9 mo.
2. Boar 9 mo. to 18 mo.

Gilts

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

Awards

First	- - - - -	\$10.00
Second	- - - - -	7.00
Third	- - - - -	4.00
Fourth	- - - - -	2.00

Negro Exhibit

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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2. Almost 1,000 forest products industries and allied wood using industries and their 50,000 employees.
3. All of the industrial, construction, agricultural, transportation and utility interests who use wood.
4. Many Texas merchants, doctors, bankers, communities, schools, and counties where timber is of major importance.
5. The Texas public from a home-grown and manufactured supply of wood products and chemurgic by-products.
6. The State of Texas.

SANER-RAGLEY LUMBER COMPANY

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CARMONA, TEXAS

TEXAS FOREST FESTIVAL

Program . . Sept. 26-Oct. 1, 1949

Monday, September 26

OPENING DAY

- 9:00 A. M.—Judging of Forestry and Agriculture 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 VIII.
- 1:00 P. M. to Midnight—Alamo Expositions on Midway.
- 12:00 Midnight—Gate Closes.

Tuesday, September 27

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

- 9:00 A. M.—Gate Opens.
- 9:30 A. M.—Judging of Swine Show.
- 11:00 A. M.—Inspection of Exhibits.
- 1:30 P. M.—Judging of Dairy Cattle Show.
- 3:00 P. M.—Judging of Beef Cattle Show.
- 7:30 P. M.—Pageant.
- 9:00 A. M. to Midnight—Alamo Expositions on Midway.
- 12:00 Midnight—Gate Closes.

Wednesday, September 28

NEGRO DAY—Negro School Children 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 and Pageant.
- 9:30 P. M.—Coronation Ball.
- 9:00 A. M. to Midnight—Alamo Expositions on Midway.
- 12:00 Midnight—Gate Closes.

TEXAS FOREST FESTIVAL

Program . . Sept. 26-Oct. 1, 1949

Thursday, September 29

FORESTERY 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.—Inspection of Exhibits.

3:00 P. M.—Rodeo Parade (Downtown).

7:30 P. M.—Rodeo.

9:00 A. M. to Midnight—Alamo Expositions on Midway.

12:00 Midnight—Gate Closes.

Friday, September 30

TEXAS DEMOCRATS DAY

9:00 A. M.—Gate Opens.

11:00 A. M.—Inspection of Exhibits.

3:00 P. M.—Inspection of Exhibits.

7:00 P. M.—Speech—Governor Allen Shivers.

7:30 P. M.—Rodeo.

9:00 A. M. to Midnight—Alamo Expositions on Midway.

12:00 Midnight—Gate Closes.

Saturday, October 1

LUMBERMEN'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.

3:00 P. M.—Lumbermen's Day Program

5:00 P. M.—Inspection of Exhibits.

7:30 P. M.—Rodeo.

9:00 A. M. to Midnight—Alamo Expositions on Midway.

12:00 Midnight—Gate Closes.

TEXAS DRY KILN CLUB

By E. D. MARSHALL

Texas Forest Service—Part of the Texas A. & M. College System



Photo Courtesy Texas Forest Service

Members of the Texas Dry Kiln Club attending first meeting held January 23, 1948

First Row—O. S. Ryan, W. H. Kellog, F. W. Jessen, J. W. Smith, Dr. J. L. Hearn, R. M. Eagle, G. H. Henderson, E. S. Schroeder; Second Row—Roy K. Flint, Fred Jerrigan, J. F. Muller, Jack Hendricks, C. P. Tolleson, M. K. Griggs, J. A. Page, Marshall Rich, H. J. Emmick, O. L. Agee; Third Row—E. D. Marshall, G. B. Harman, W. D. Self, George Christopher, W. C. Jones, Carl Westbrook, Jr., W. F. Dudley.

On January 23, 1948, a group of thirty-eight lumbermen and technicians met at the Forest Products Department of the Texas Forest Service at Lufkin and voted unanimously to form the "Texas Dry Kiln Club". Since that time the club has held regular meetings and conducted a dynamic program of actual accomplishments.

Why the need for the Texas Dry Kiln Club? Texas produces in the neighborhood of 1,000,000,000 board feet of lumber annually. Poor drying practices reduces the usable footage of lumber by at least three percent and probably the loss does

not exceed ten percent. If the degrade could be reduced by 3%, about 30,000,000 board feet of lumber could be salvaged annually. Using an average selling price of \$50 per thousand board feet, poor seasoning practices cost Texans \$1,500,000 annually. The Texas Dry kiln Club was organized, therefore, in an attempt to provide both practical and technical information to Texas lumber manufacturers in an effort to raise the standards of drying and to reduce the amount of seasoning degrade. In effect, it is conservation of the timber resource—just as much so as forest fire prevention, tree planting, and proper forest

management practices. Therefore, every forest conservation-minded Texan should be interested in the progress and development of the Texas Dry Kiln Club.

Outstanding national authorities have been obtained as speakers at the regular meetings. They have travelled from Wisconsin, Indiana, and Louisiana to honor Texans with their presence and leave behind sound advice with regard to better seasoning practices.

In addition to these outstanding regular meetings, the Texas Dry Kiln Club has made two definite

(Continued on Page 27)

TEXAS DRY KILN CLUB—

(Continued from Page 26)

worthwhile accomplishments and is in the process of a third. In January, 1949, the Club sponsored in co-operation with the Forest Products Department, the Southwest Wood Products Conference held at Lufkin, Texas. This conference covered a comprehensive field of subjects in the wood products field. Outstanding national authorities delivered papers at this conference. If present plans materialize, the proceedings of this conference will be published soon. Requests from foreign lands as well as from various states in the United States for copies of these proceedings are now on file.

During the first four months of 1949, the Club in co-operation with the Forest Products Department, completed a program of "Kiln Tune-Up" service. Mr. Karl Loughborough, outstanding world authority on the seasoning of wood, was obtained to head up this work. Sixteen leading and progressive lumber firms subscribed around \$4,500 to complete this work. "On-the-ground" inspection of individual kilns and of air drying practices at each firm were made and confidential reports prepared advising the most practical means of reducing degrade consistent with costs. Texans should be proud of the sixteen lumber firms that made this study possible since Texas is the first state in the United States to have such a program.

The third project initiated by the Club (in April, 1949) and the one that is now underway, is concerned with the chemical seasoning of hardwoods. A buffered salt is being used in the drying of oak and gum at three co-operating Texas mills. A complete economic appraisal is being made to determine when it is advisable to use this new method of seasoning. If the saving in degrades equals or exceeds the cost of the salt plus the cost of application—then the compound may be used in the interests of economy and conservation. As a matter of fact, four Texas lumber firms have already placed orders for this buffered salt compound for use in seasoning 2-inch and thicker oak and gum lumber.

Present officers of the Club are Mr. George Henderson, President; Mr. Ed Schroeder, Vice-President; Mr. E. D. Marshall, Secretary-Treasurer.

Membership is open to all. There are no dues or obligations. You do not have to be a lumber manufacturer to attend the meetings.



Photo Courtesy Texas Forest Service

Hardwood Lumber being air dried

Treating green oak with beffered salt compound to determine its effect on reducing seasoning degrade

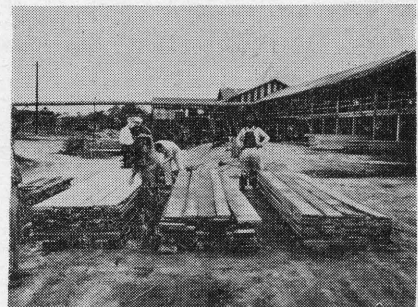


Photo Courtesy Texas Forest Service

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East Texas Livestock Industry

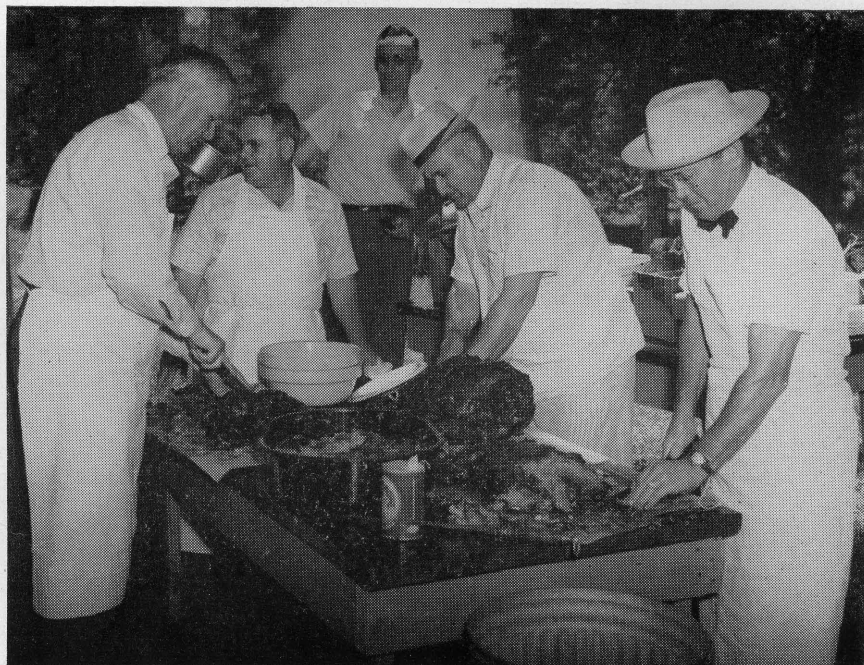
By ED HOLDEN, Manager

Angelina County Chamber of Commerce

The livestock and dairy industries are developing as one of the most important sources of income throughout East Texas. In the past this industry has been largely dependent on the open range and upon unimproved pastures, mostly cut over timber lands. Although a few of the more progressive farmers and land owners in this section of East Texas have always tried to maintain the best possible pastures it was not until the establishment of the Texas Agricultural Experiment Station on Highway 94, east of Lufkin, that research in the development of the improved pasture was started in this section of East Texas. The program of pasture improvement carried out at the experiment station has demonstrated conclusively that improved pastures in Angelina County and the surrounding area can be developed which will carry one cow per acre. Research work done at the experiment station and elsewhere throughout the south have provided the basic information necessary for the development of a thriving livestock industry in East Texas. In order for this information to be applied it is necessary that the greatest possible number of farmers, land owners, and livestock men become familiar with the results which have been obtained.

In order to show the people of East Texas what can be done in building improved pastures the Agriculture Committee of the Angelina County Chamber of Commerce in co-operation with the Extension Service of A. & M. College of Texas is sponsoring an annual pasture improvement field day at the experiment station. The Agriculture Committee provides a free bar-b-que to all who attend the annual pasture improvement field day. This year over six-hundred farmers, county agents, 4-H club boys and FFA students attended the annual Field Day held May 12. A special feature of the program was a Grass Judging Contest, entered by 4-H Clubs and FFA Classes. This contest demonstrated the importance of being able to recognize various species of grass used in building modern improved pastures. Winning teams were awarded plaques, which will serve to remind participants of the importance of the Field Day and the development of improved pas-

(Continued on Page 29)



Members Chamber of Commerce Agriculture Committee preparing Bar-B-Que for Pasture Improvement Field Day



Serving Bar-B-Que at Pasture Improvement Field Day

EAST TEXAS LIVESTOCK—

(Continued from Page 28)

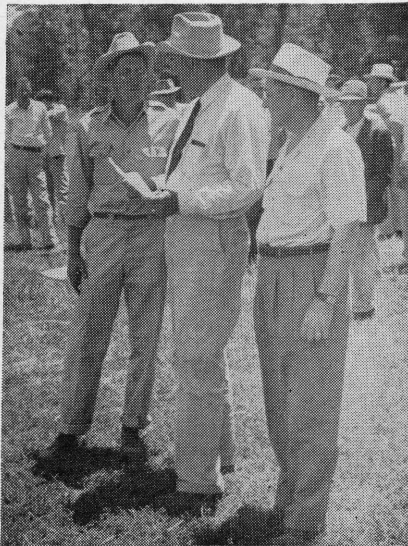
tures. County Agents, FFA Teachers, personnel of the Experiment Station and representatives of A. & M. College conducted tours of the Experiment Station, explaining the work being done and plans for future development. The annual event is becoming one of the most important educational meetings held in East Texas.

Because East Texas has a large urban population of its own, and because it is close to cities such as Shreveport, Beaumont, Port Arthur, Houston, Dallas, and Fort Worth, the dairy industry is rapidly increasing in importance. With adequate markets assured there remains only to develop the best possible pastures, to build up dairy and beef herds and to develop the skill necessary to produce grade A milk. When these things are accomplished the dairy industry will be one of the most important sources of income for East Texas.

4-H Clubs, FFA Classes, and Veterans Agricultural Classes have done much to encourage the development of a better and more profitable livestock industry throughout this area. County Agents, FFA Teachers, Soil Conservation Personnel, and other agriculture workers, as well as interested businessmen and the leading farmers of East Texas are showing land owners of this area the possibilities of developing better and more profitable livestock and dairy industries.

The introduction of Brahman cross-breeds has resulted in a good beef type cattle, particularly adapted to East Texas. These cross-breeds combine the hardiness and size of brahman cattle with beef qualities of other breeds. If properly cared for cross-breed calves will weigh about 500 lbs., at the age of 8 months, when run on improved pastures.

The Angelina County Chamber of Commerce, like many other East Texas organizations is sponsoring a program for the introduction of registered jersey cattle. In the period from 1946 through 1949 members of the Chamber of Commerce purchased fifty 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.



**Officials preparing for
Grass Judging Contest**



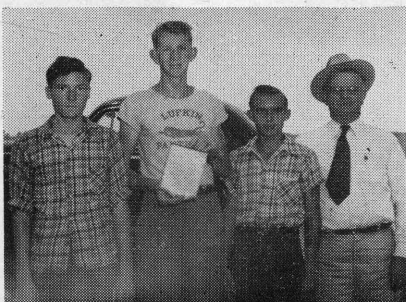
**Nacogdoches FFA Team 2nd place
Grass Judging Contest
Annual Field Day**



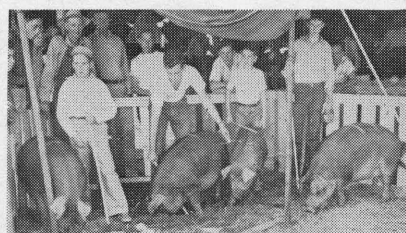
**Lufkin FFA Team 1st. Place
Grass Judging Contest
Annual Field Day**



**Angelina Co. 4-H Club Team
3rd Place Grass Judging Contest
Annual Field Day**



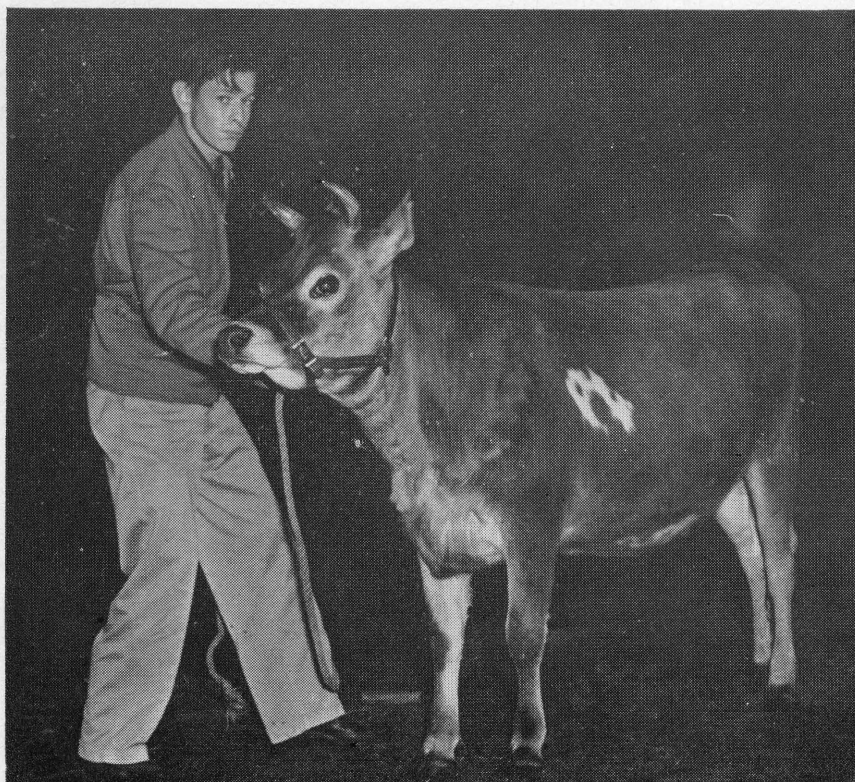
**Central Consolidated FFA Team
4th Place Grass Judging Contest
Annual Field Day**



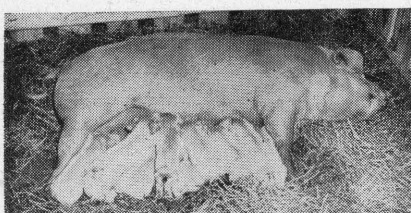
**Entries in 4-H Club District
Swine Show, held at the 1948
Texas Forest Festival**

TEXAS FOREST FESTIVAL LIVESTOCK SHOW

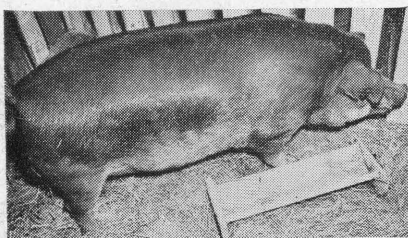
1948 First Place Winners



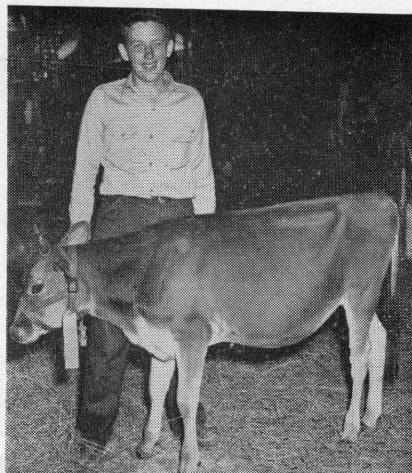
Blue Ribbon Winner Jersey Heifer, owned by
Brit Alexander, Lufkin F. F. A. Class



O.I.C. Sow and Litter, Blue Ribbon
Winner, owned by Oscar Taylor
Doman, Angelina County 4-H Club



1st Place Duroc, Male Division
Under Nine Months, owned by
Donald Fitch, Angelina County
4-H Club



1st Place Jersey Heifer, owned by
Kenneth Carroll, Huntington FFA
Class

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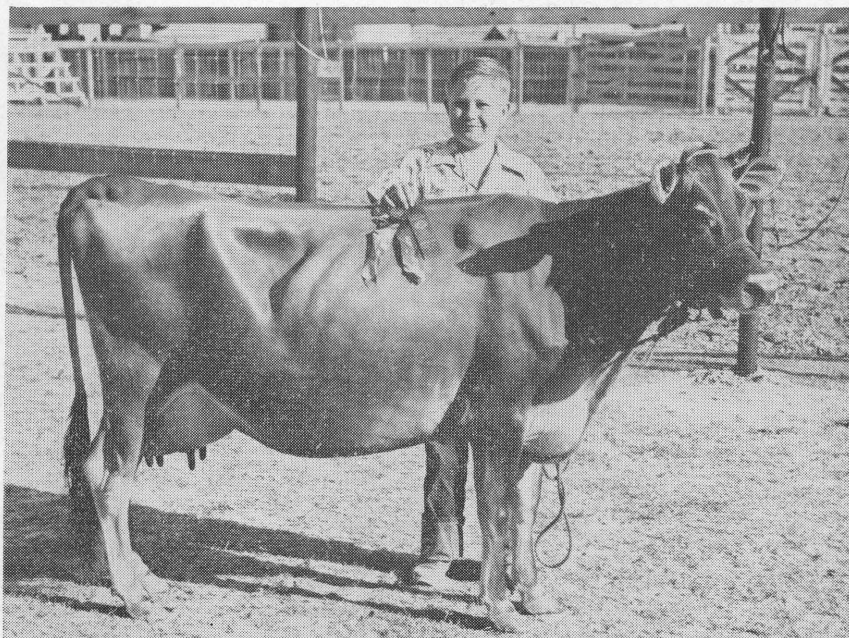
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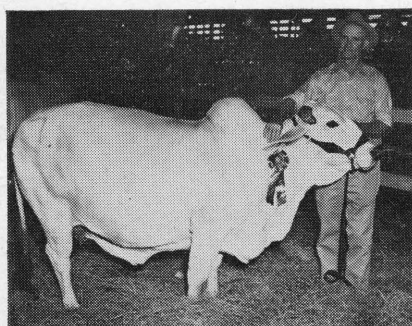
502 North Bonner Phone 916

TEXAS FOREST FESTIVAL LIVESTOCK SHOW

1948 Grand Champions

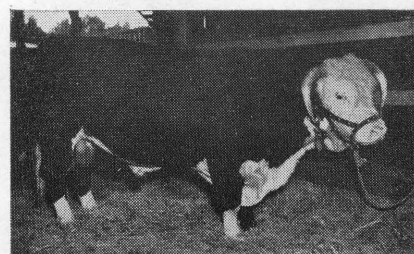


Grand Champion
Dairy Cattle Show
owned by
John Lee Hopkins
Angelina County
4-H Club



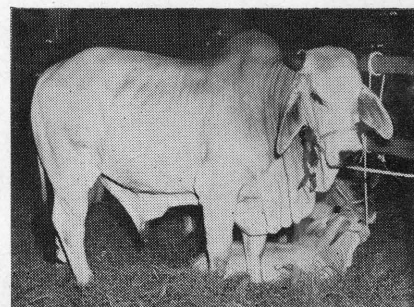
Grand Champion
Brahman Female
owned by
Elbert Havard

Grand Champion
Hereford Bull,
owned by
Sam Hawkins



Grand Champion
Female Beef
Division
owned by
Spurgeon McMullen

Grand Champion
Brahman Bull
owned by
Elbert Havard



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The College offers work in Typing, Shorthand, Bookkeeping, Traffic Management, and all related work, such as English, Spelling, Mathematics, Business Law, Economics, Salesmanship, and Business Organization and Practice.

The Pineywood Business Junior College has given its support to every move in Lufkin and Angelina county for social betterment. It lends every aid it can to the Texas Forest Festival.

G. P. SCOGGINS, President.



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LUMBERMEN'S DAY CONTESTS

3:00 P. M. SATURDAY, OCTOBER 1, 1949

By ED HOLDEN, Manager
Angelina County Chamber of Commerce

The annual Lumbermen's Day at the Texas Forest Festival will be at 3:00 P. M., Saturday, October 1. Al Cudlipp and his Lumbermen's Day Committee have scheduled a full program for Saturday afternoon. This year's contest will include events covering all phases of logging and sawmill activities. There will be a log chopping contest, two types of log loading contests, two types of log sawing con-

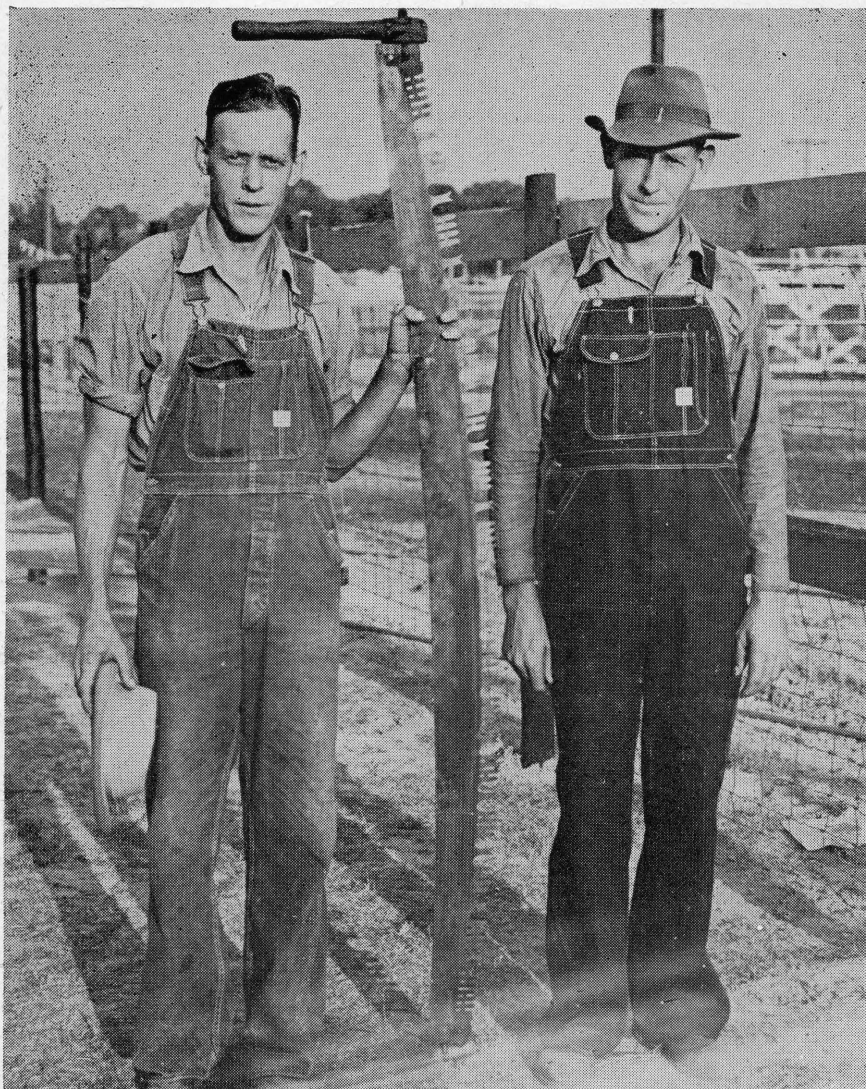
tests, and a lumber stacking contest. In addition there will be demonstrations of many of the latest types of mechanical equipment. The following events have been scheduled:

Name of Contest	Men on Crew	First Prize	Second Prize	Third Prize
Log Chopping 1	1	\$15.00	\$10.00	\$ 5.00
Log Sawing (2 Man Cross Cut Saws)	2	30.00	20.00	10.00

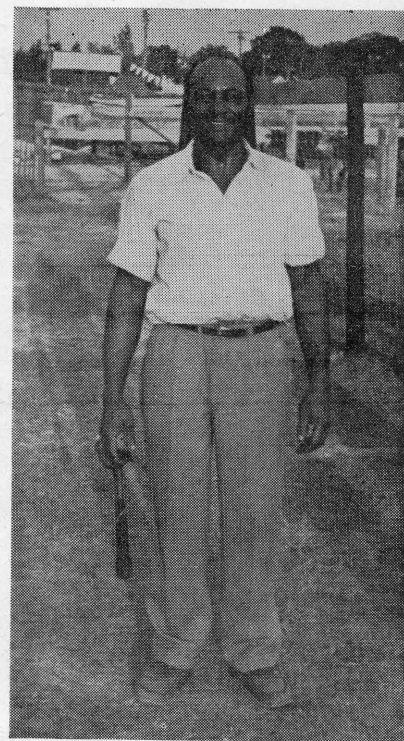
Bow Saw	1	15.00	10.00	5.00
Log Loading (With teams)	3	30.00	20.00	10.00
Log Loading (with mechanical loader)	3	30.00	20.00	10.00
Lumber Stacking	2	30.00	20.00	10.00

Lumber companies throughout the timber belt of East Texas will enter teams in the Lumbermen's Day Contests. The company whose team has the highest over-all score in all these events will be given a trophy. This trophy will remain in their possession for a period of one year. Any company whose team wins the contest three times will retain permanent possession of the trophy.

Detailed rules of the contests will be sent to all lumber companies in East Texas.



S. L. Gossett (left) and I. B. Gossett (right) first place winners in Log Sawing Contest. I. B. Gossett first place winner Log Chopping Contest, 1948 Texas Forest Festival.



Walter Morris, first place winner Nail Driving Contest 1948 Texas Forest Festival

Forestry Exhibits

by

4-H Clubs and F.F.A. Classes

By ED HOLDEN, Manager
Angelina County
Chamber of Commerce

The primary purpose of the Texas Forest Festival is to encourage better forestry practices throughout the timber belt of Texas. Most important in the achievement of this aim are the Forestry Exhibits, prepared by twenty-one East Texas 4-H Clubs and FFA Classes.

With the help of the Texas Lumber Manufacturers Association, Texas Forestry Association, Texas Forest Service, U. S. Forest Service, and many other organizations these exhibits have grown to become the outstanding feature of the annual Forest Festival. The exhibits represent the highpoint of the years forestry program in FFA Classes and 4-H Clubs throughout this area. Groups are chosen to prepare forestry exhibits because of their outstanding year round work in forest conservation in their local clubs and classes. The thousands of hours of work required to prepare these outstanding exhibits show the importance of forestry to East Texas.

Judges who attended last years Forest Festival and others who have visited many shows of this type have told us that the Forestry Exhibits at the Forest Festival are among the finest exhibits prepared by 4-H Clubs and FFA Classes that

(Continued on Page 37)

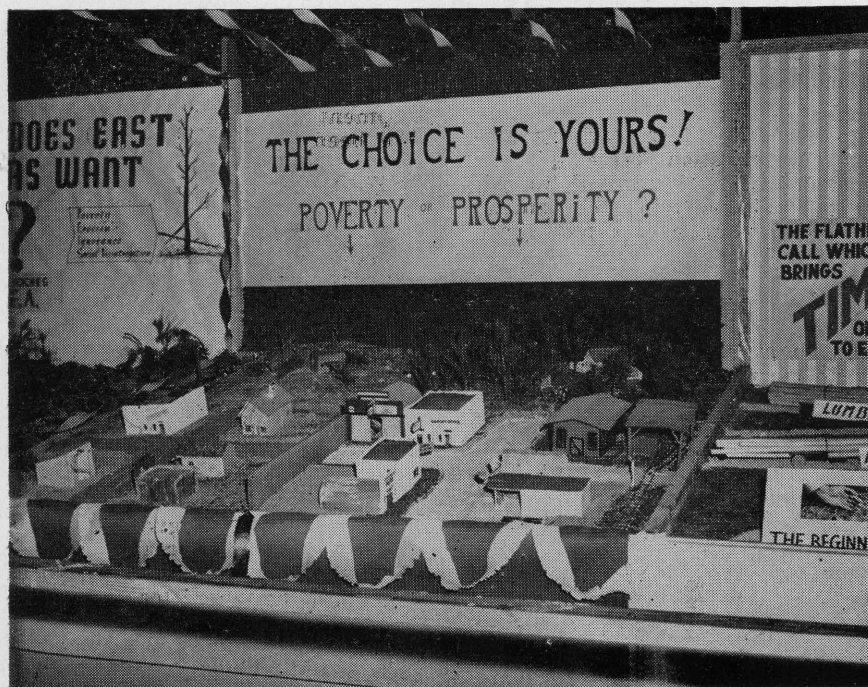


Photo Courtesy Texas Forest Service
1st Place Forestry Exhibit
Prepared by Huntington FFA Class

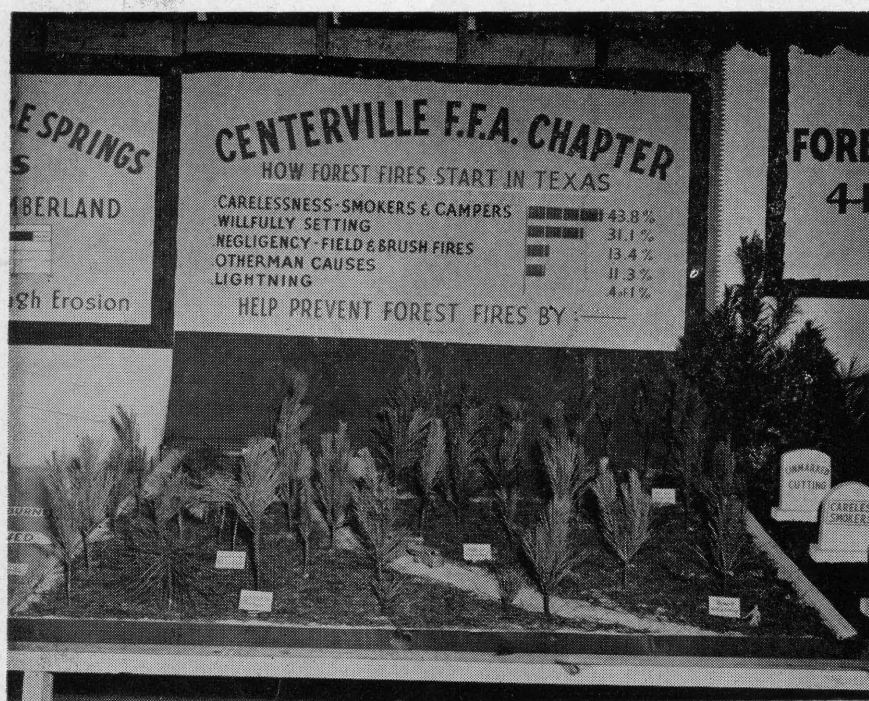


Photo Courtesy Texas Forest Service
2nd Place Forestry Exhibit
Prepared by Centerville FFA Class

FORESTRY EXHIBITS—

(Continued from Page 36)

they have seen at any show in Texas. They say they compare very favorably with the club exhibits at the State Fair and at other outstanding fairs and exhibits throughout the country. We are proud of the work being done by our East Texas boys in preparing these outstanding Forestry Exhibits, and we know that the preparation of these exhibits is one of the most effective types of education which we can sponsor for the improvement of forestry practices in Texas.

The Forestry Exhibits are principally developed to show the place of forestry in the agriculture picture of East Texas. Their purpose is to show land owners how to manage their timber as a farm crop, and to educate the public as to the value of the forest as our only renewable natural resource. They show in a graphic form the value of conservation and proper management of our timber resources. They stress the importance of timber planting, forest protection, and of selective cutting, and they show the average East Texas farmer how forestry management can be combined with productive agriculture.

Because of space limitations it is only possible on these pages to show the pictures of the Forestry Exhibits which placed first, second, and third.

1949 Forestry Exhibits promise to be the best which have ever been prepared for a Forest Festival, and will represent the results of twelve months work by the 4-H Clubs and FFA Classes preparing these exhibits.

**Educational Forestry
and Wildlife Exhibit
Prepared by Texas
State Game and Oyster
Commission and the
U. S. Forest Service**



Photo Courtesy Texas Forest Service
3rd Place Forestry Exhibit Prepared by Trinity County 4-H Club



Photo Courtesy Texas Forest Service

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Our Sincere Congratulations to The Texas Forest Festival

Our Texas Forests

By D. A. ANDERSON

Head Research and Education Department Texas Forest Service
Part of the A. & M. College System

Conservation of forest resources does not mean that the woodsman puts aside his axe. Conservation means more intelligent use of timber, protection of trees, and making sure of the future supply.

A great deal of progress has already been made in Texas to establish good forestry practices. As a result, timber reserves dropped only three per cent during the decade ending in 1945. The heavy drain of the war years played havoc with the forest resources of many a state—but not Texas. A few far-sighted individuals had long before determined that there would be no ghost timber industry here.

Will there always be enough production to meet the needs of a rapidly growing state?

The experts say yes—but only if the conservation measures are continued and expanded. A program is now successfully operating to perpetuate the Texas forestry industry. First inaugurated by progressive timber producers, it has been augmented by the state and federal forestry services. The program puts the growing of timber in the same category with the production of any other crop. It calls for replanting, selective cutting, prevention of forest fires, and research to find better production methods and new manufacturing processes to use materials that now go to waste.

The Texas Forest Service estimates that there are in Texas more than a million acres of land that should be planted to new tree crops. The State Forest Service is helping with the job of producing 12,000,000 seedlings. Land owners want more pines for their East Texas stump lands and abandoned sandy hill farms; hardwoods are wanted for fence posts and windbreaks in other sections of the state.

The ordinary farmer would soon be out of business if he did not use his land over and over again—plant new crops every year. Forest acres should be used in the same way. Of course, the difference is this: It takes only a year to ripen a field of wheat, while trees take much lon-

(Continued on Page 41)



Photo Courtesy Texas Forest Service

**Texas Forest Service's "Fire jeep" in action
plowing line around forest fire near Corrigan Texas**

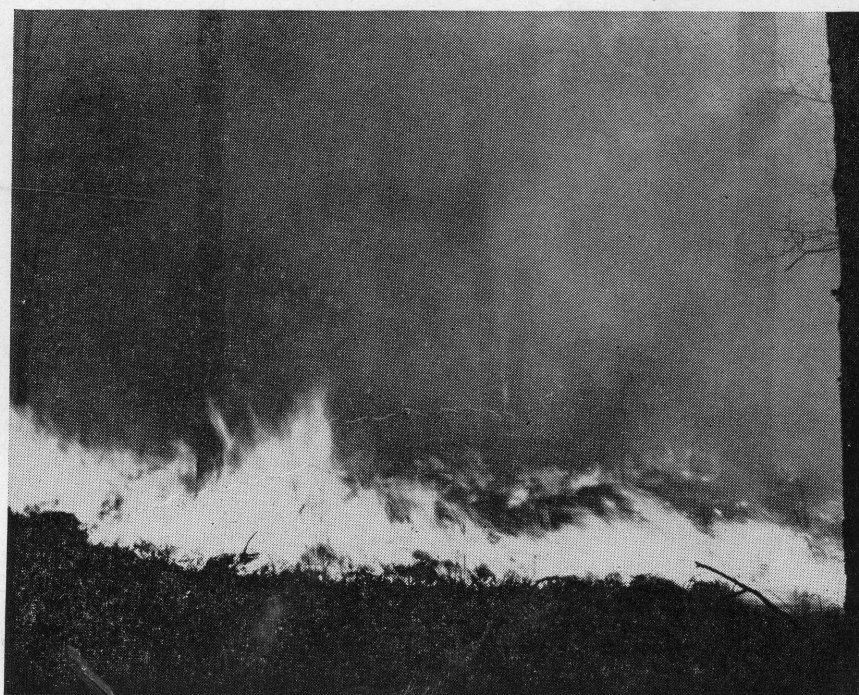


Photo Courtesy Texas Forest Service

**A destructive forest fire burning our potential homes
East Texas Piney Woods**

OUR TEXAS FORESTS—

(Continued from Page 40)

ger. But nobody has to wait a hundred years, or fifty, or twenty-five, for a tree crop to grow. In the forests, there are trees of all ages. Fully grown trees, if left standing, would die of old age. They can be harvested now—not only for profit and use, but in order to give the young trees more room and more sunlight so that they can grow faster. And planting seedlings where the growth is too thin puts the land on a continual yield basis to provide a succession of tree crops.

Selective cutting means careful selection of the trees best suited for harvest. A crop is taken, but the forest remains. Selective cutting is extensively practiced by the forest industries in areas where the woods lends itself to this system.

On more than half of Texas land at present, the cutting is poor and destructive. The land is left with only a limited number of trees—or with no trees—for reproduction purposes. In second growth forests, poor cutting means taking away medium sized trees when they are making their fastest growth. This practice slows up natural reforestation of pine and encourages the growth of low-value hardwoods.

Large owners are using fair to good cutting practices on an estimated eighty-four percent of their lands; but owners of small and medium-sized tracts are permitting eighty-six per cent of their lands to be poorly cut.

Every year fires in the timber regions of East Texas cause extensive damage. This loss could be prevented, because ninety-nine per cent of the fires are caused by people; either through neglect and carelessness, or intentionally. Fire not only injures the growing timber, but it also destroys most of the young seedlings which would become the forests of the future.

Forest fires also burn the soil covering plants and the leaf and straw litter, thereby speeding up the water runoff and causing the rich top soil to be washed away. These fires remove the scenic and recreational value of forests and very often kill or injure livestock, destroy buildings, and other property. The Texas Forest Service is charged with the responsibility for holding down losses from forest fire.

Our State Forest Service is achieving its goal by a number of activities. Educating the public to use care, and to avoid intentional burning, is one of these. Another is the use of air patrol, telephone and radio communication, fire control



Photo Courtesy Texas Forest Service

Rear view, showing plow of "fire jeep" plowing fire line on fire near Splendora, Texas



Photo Courtesy Texas Forest Service

One of five planes the Texas Forest Service uses for aerial patrol. The pilot is P. R. Wilson, veteran of five qualified pilots who fly on patrols during high fire danger periods

equipment, and trained personnel. Railroad Companies, lumber companies, farmers, and others co-operate in this effort.

"We are making progress in our goal of protecting the public's forest domain," says J. O. Burnside, forest protection chief, "but we have a long way to go even yet."

Of the 14,000,000 acres of private timberlands in East Texas, only 9,000,000 acres are under organized forest protection. Still, the progress

shows an improvement. Comparative figures for the first six months of this year show a marked decrease both in the number of fires and in acres burned over a similar period last year.

Experiments on state and federal forest lands and on some private holdings show that the annual growth rate of 156 board feet of timber per acre can be doubled by protecting forests and by using recognized conservation practices.

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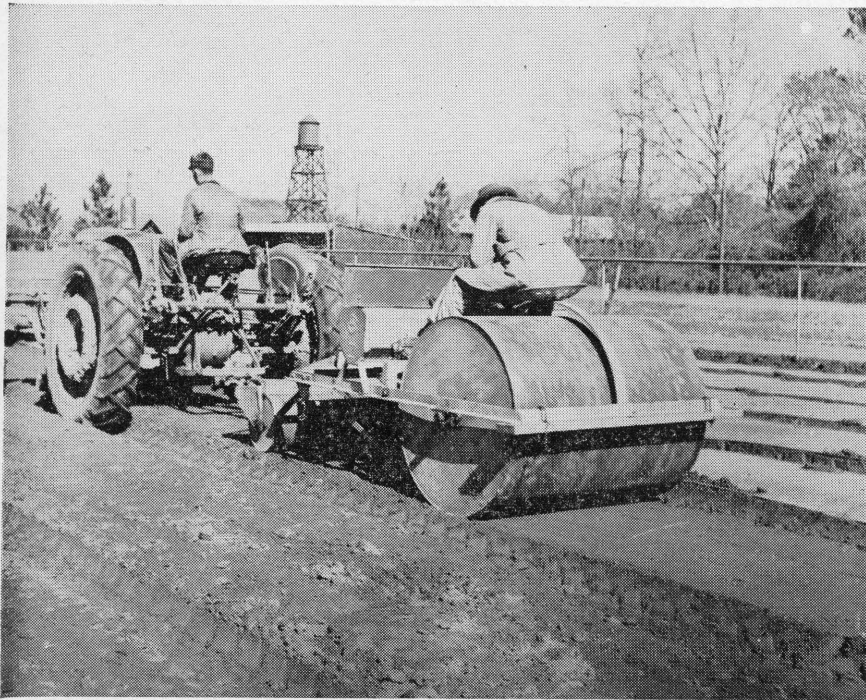


Photo Courtesy Texas Forest Service

Sowing Pine Seed and Rolling Seed Beds at the
Texas Forest Service Indian Mound Nursery near Alto

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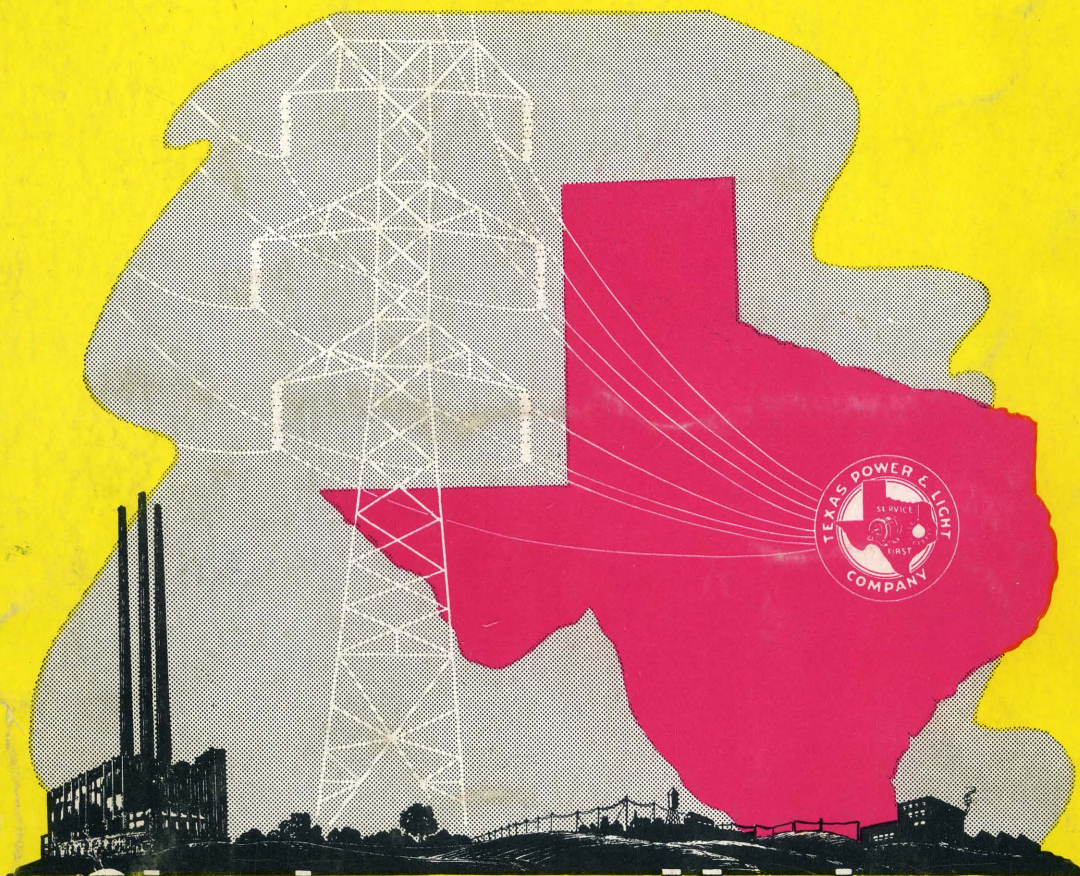
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