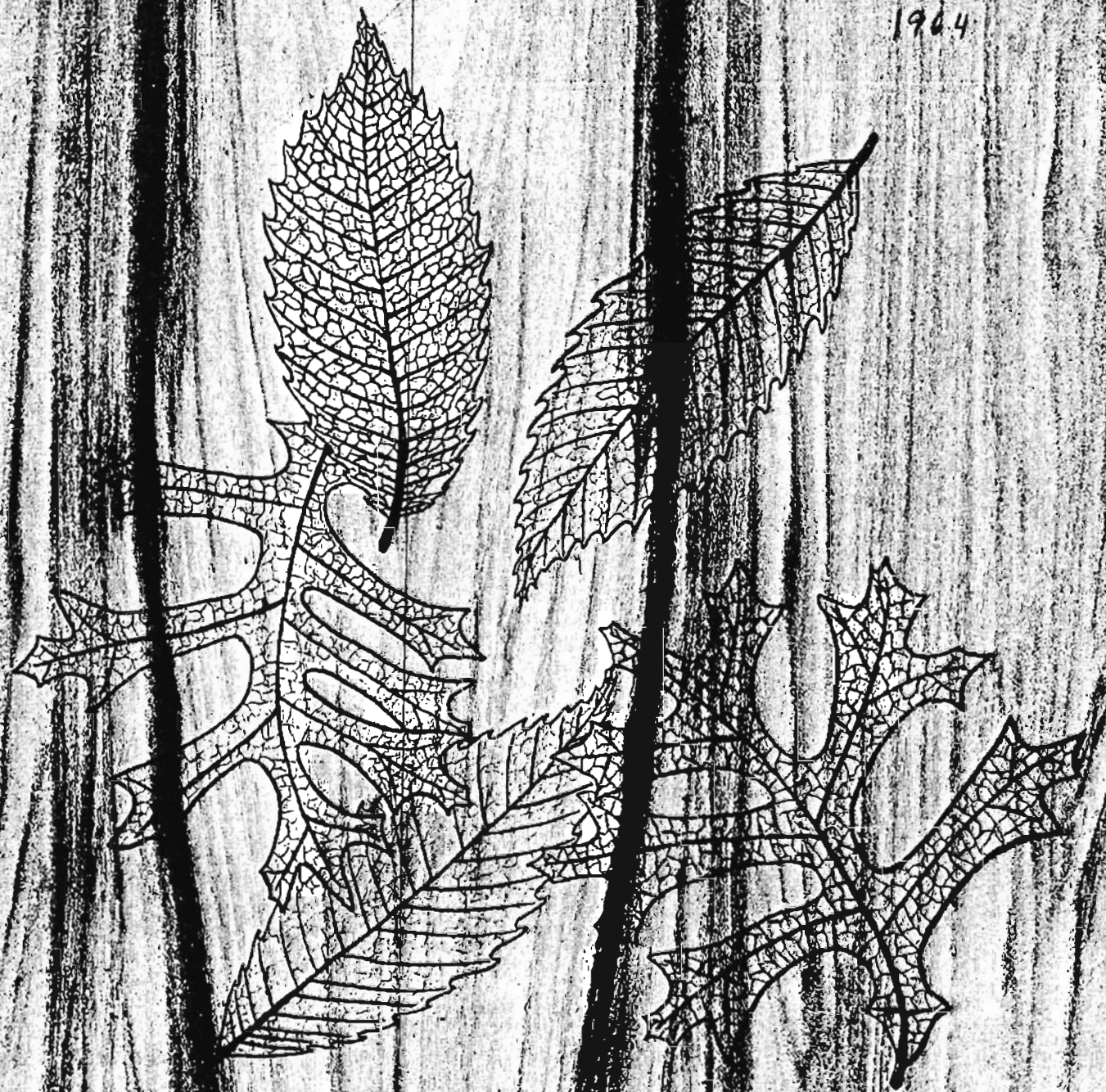


1904



TEXAS TALLY

The cover of this year's TEXAS TALLY is Weldwood Industrial Flexwood and genuine red gum veneer.

Weldwood Flexwood—developed by United States Plywood—is genuine veneer permanently laminated to either nonwoven fiber backing (Industrial Flexwood) or a cloth backing (Architectural Flexwood), and by a special flexing process is made extremely pliable. It is available in more than forty domestic and imported woods of choice grain and figure.

Weldwood Industrial Flexwood is sold in large sheets as well as bonded to substrates such as aluminum and steel, by our Flexible Materials Division in Louisville, Kentucky. Substantial sales are being realized from the automotive industry for interior decorative trim on the Chevrolet, and from fabricators of metal partitions, such as E. F. Hauserman, as well as from other large manufacturers. Aero Commander Aircraft, Brunswick Corporation, Beech Aircraft, Salton Murray, etc. Manufacturers of major home appliances, such as refrigerators (Mann and General Electric) and dishwashers (Hobart "Kitchen-Aid") are using Industrial Flexwood for facing panels to match fine kitchen cabinet woods. Many other industries are exploring uses for this interesting and versatile decorative material, which can also be bonded to hardboard, plywood, and wood.

Weldwood Architectural Flexwood is sold largely as an interior wall covering material and is applied with equal facility to flat walls, curves of arches, surfaces, columns and pillars.

For additional information, write United States Plywood, Flexible Materials Division, Box 17183, Louisville, Kentucky 40217.

UNITED STATES PLYWOOD CORPORATION

United States Plywood Building

100 North Second Avenue

New York, N. Y. 100

THE SYLVANS CLUB

OF

STEPHEN F. AUSTIN STATE COLLEGE

NACOGDOCHES, TEXAS

PRESENTS

THE

TEXAS TALLY

FOR

1964

VOLUME VII

DEDICATION

WHEREAS, The Texas Forestry Association will celebrate its Golden Anniversary in 1964; and

WHEREAS, This organization founded 1914, pioneered the promotion of forest conservation in Texas and encouraged the fullest economic development and utilization of our forests and related resources; and

WHEREAS, The Texas Forestry Association has aided in the restoration of commercial forests, the State's major renewable resource, which supply the raw material to provide employment for thousands of Texans which, in turn, furnishes the lifeblood for a large segment of the Lone Star State's economy;

We, the members of the Sylvans Club, do therefore recognize and highly commend the members of the Texas Forestry Association, both present and past, for the outstanding contributions made to the advancement of the conservation movement and to the profession of forestry in the State of Texas.

In recognition of this contribution, We dedicate this Seventh Edition of the TEXAS TALLY to the Texas Forestry Association and its presiding officers through the years.

W. Goodrich Jones	1914-1921
Richard F. Burges	1922-1924
R. A. Gilliam	1925-1926
R. W. Wier	1927-1928
E. L. Kurth	1929
O. M. Stone	1930
Leonard Tillotson	1931
Paul T. Sanderson	1932-1934
J. Will Oliphint	1935-1936
H. M. Seaman	1937-1938
D. C. Kenley	1939
H. W. Whited	1940-1941
Walter O'Neal	1942
Hoxie H. Thompson	1943-1944



W. E. Merrem	1945
N. D. Canterbury	1946
D. W. Thompson	1947
E. G. Prud'homme	1948
R. W. Wortham, Jr.	1949-1950
Paul F. Hursey	1951
Sam H. Reid, Jr.	1952
H. M. Seaman	1953
W. A. Weems	1954
S. W. Henderson, Jr.	1955
W. R. Crute	1956
R. M. Townsend	1957-1958
Clyde Thompson	1959-1960
Marvin G. Angle	1961-1962

Steve C. Kardell 1962-1964

TABLE OF CONTENTS

Dedication	2
The Seed Tree Stand (Report From the Department)	4
Faculty and Associate Faculty	6
Staff	8
Visiting Lecturers	9
Sylvans Club	10
Students	12
Phi Eta Sigma	19
Scholarships	20
Laurels Club	21
Fishing Trip	22
Summer Camp	24
Field Day	32
Hunting Trip	39
Homecoming	40
Intramurals	43
Christmas Dinner-Dance	44
Texas Forestry Association	45
Texas Forest Service	46
National Forests in Texas	48
Research Complements Education at Stephen F. Austin	50
Alumni Directory	53
TEXAS TALLY Staff	57



THE SEED-TREE STAND

One finds seedlings under the canopy of a seed-tree stand, provided the parent trees are vigorous and the site has been prepared to receive the seed. So the faculty of forestry at SFA, the parent stand, is charged with the responsibility of remaining professionally vigorous in order to provide knowledge, the seeds, for the growth of the forestry profession.

Perhaps the analogy should now swing to a shelterwood stand; for here the overstory not only produces seed, but "nurses" the young forest along through environment control. So, too, the faculty is responsible for developing, tedious though the task may be, first-rate foresters to manage the nation's woodland resources.

Seedlings, saplings, poles, standards, and mature timber! Freshman, sophomore, junior, senior, and graduate! So goes the course of an evolving forest and a collegiate education. Young men arrive as germinating seeds on sites which may have lacked fertility, and leave to take their place among the giants of the profession.

To continue the development of a program so ably founded and guided to this time is the college's highest aim. In the past year, Professor Leonard F. Burkart, Ph.D., arrived from the University of Minnesota to teach wood technology and to do research in wood chemistry. Your present reporter came from the University of Georgia to administer the program and to teach silviculture. About the time this TEXAS TALLY is off the press, Professor Nelson Samson, Ph.D., will have returned from a two-year assignment for the United Nations in Chile. Unfortunately, we simultaneously lose Interim Professor Billy Dean Scott who so ably served as Professor Samson's stand-in.

Bobby Joe Cox and Robert Rheiner, both students who elected to take a "semester sabbatical," have been employed as research technicians. Likely, the position they hold will continue to be filled by our students.

Of the 3,334 students at S.F.A. this year, 127 of them are forestry majors. In order to give these students the best training possible, two new buildings are being planned. These are a laboratory and a building of classrooms.

The new laboratory building is under construction; it will be occupied in the fall of 1964. An architect's sketch of this building, which is valued at \$180,000, appears below.

The other building, "a monument to wood," is proposed for a large wooded tract on Raguet Street. Architects have submitted their planning price, but financing the structure is, at present, uncertain.

Another new proposal is the establishment of three new undergraduate programs. The options, which include forest game management, forest recreation management, and forest range management (cooperative with Texas A & M University), are being studied.

An invitation to cooperate in research has been extended to government agencies and industries, and contract research was either indicated or extended during the year with W. R. Grace Company, Thompson Sales Company, and the National Science Foundation. Also, cooperative research was begun with Champion Papers, Incorporated, and it was continued with the U.S. Forest Service.

Various short courses and clinics were scheduled this year. A Wood School Clinic, co-sponsored with the National Lumber Manufacturer's Association, the Texas Lumberman's Association, and the Southern Pine Association, was held at the college. Also, a Forest Valuation Short Course, coordinated by Dr. Baker and Mr. Hunt, was presented in April.

The department was privileged to hear two visiting scientists, Dr. T. T. Kozlowski and Dr. S. A. Graham, lecture on the campus. These two men were jointly sponsored by the Society of American Foresters and the National Science Foundation.

The professors were active outside the classroom in several ways. Dr. Schneider was appointed to the Oak Ridge Institute of Nuclear Studies for a two-month summer program in radioisotope technology. Mr. Hunt served as Chairman of the Texas Chapter of the Society of American Foresters. About a half-dozen faculty papers appeared in print during the year, and Dr. Baker presented a paper at the American Society of Photogrammetry meeting on his instruction techniques at S.F.A. Some of the members also presented a variety of civic club, career day, and other professional talks.

But, unhappily, the most significant event of the year was the resignation of Arne Kemp, Ph.D., after eight years as forestry department head at S.F.A. Dr. Kemp is now Chief of the Division of Forest Products Research at the Lake States Forest Experiment Station, U.S.F.S. The students, the alumni, and the faculty miss him.

Sincerely,

Laurence C. Walker



FACULTY



Standing L to R: Dr. Leonard Burkart, Mr. Billy Dean Scott, Dr. Victor Bilan, Dr. Gerhardt Schneider, Dr. Laurence C. Walker. Sitting L to R: Mr. Walter Dickey, Mr. Ellis Hunt, Dr. Robert Baker, Mr. Leo Effenberger; Dr. Nelson T. Samson, not shown.

DEGREES HELD BY MEMBERS OF THE FORESTRY FACULTY

Robert D. Baker: B.S. in Forestry, M.F., University of California; Ph.D., State University of New York, College of Forestry.

M. Victor Bilan: Diploma, University of Munich, Germany; M.F., D.F., Duke University.

Leo Travis Effenberger: M.E., Texas Agricultural & Mechanical University.

Ellis V. Hunt: B.S., M.S., University of Missouri.

Nelson T. Samson: B.S., M.S., New York State College of Forestry; Ph.D., State University of New York, College of Forestry.

Gerhardt Schneider: B.S., M.F., University of Michigan; Ph.D., Michigan State University.

Billy Dean Scott: B.S. in Forestry, Arkansas Agricultural & Mechanical College; M.F., Yale University.

Laurence C. Walker: B.S., Pennsylvania State University; M.F., Yale University; Ph.D., State University of New York, College of Forestry.

ASSOCIATE FACULTY



DR. HUGH SMITH
Forest Pathology
B.S.—Colorado State University
M.S.—Michigan State University
Ph.D.—University of Michigan



DR. WILLIAM GIBSON
Forest Entomology
B.S.—University of Rhode Island
M.S.—Kansas State University
Ph.D.—Kansas State University



WALTER DICKEY
Research Technician



Professors at Field Day

STAFF



MRS. KATHERYN MOONEY
Head Secretary



MRS. CAROLYN WYCH
Assistant Secretary



MRS. WILLIAM T. PARMER
Head Librarian

STAFF ASSISTANTS



NANCY WEATHERLY



CAROLYN KING



EVELYN WILLIAMS



JEAN YOUNGBLOOD



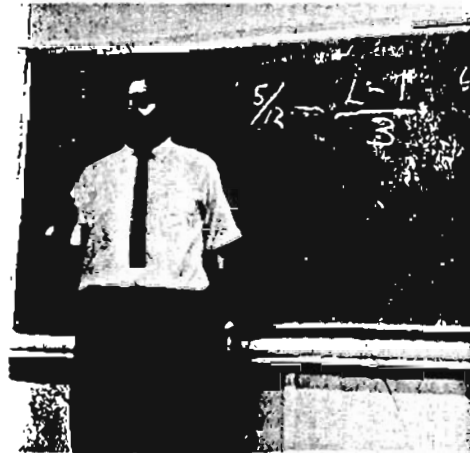
ANNETTE DAVIS



ANNE THOMSON

VISITING LECTURERS

MR. SAM N. OLSEN
Red Cedar Shingle and
Handsplit Shake Bureau



DR. T. T. KOZLOWSKI
Visiting Scientist

MR. EMERSON THAYER
Tobin Aerial Surveys





Standing L to R: Dr. Gerhardt Schneider, Sponsor; James Wark, Business Manager of Texas Tally; Grant Gaumer, Editor of Texas Tally; Glen Lisle, Sergeant-At-Arms; Claude Dowden, President; Leon Levens, Vice-President; Gary Gilmore, Secretary. Sitting L to R: Raymond LaBoa, Reporter; Mr. E.V. Hunt, Sponsor; Mr. Billy Dean Scott, Sponsor; Jimmy Hull, Treasurer.

THE SYLVANS CLUB

The Sylvans Club was organized in 1946, to help develop and stimulate an interest in the forestry profession. The primary aim of this organization has been to build the student's interest in forestry by hosting speakers who are recognized leaders in the field of forestry and to distribute good will in the East Texas area.

Each year the Sylvans sponsor a field day, a hunting trip, a fishing trip, a trip to the Association of Southern Forestry Club's annual conclave, and a Christmas Dinner-Dance. These activities are financed by money earned from work projects and through the sale of ads in the Sylvans' yearbook, the Texas Tally.

This year the Sylvans have made a good showing in intramural sports. This can be attributed to the faculty sponsors who donated their time as coaches for the respective teams. This year the Sylvans captured the coveted first place in the college Homecoming parade for the first time in its history. The Lumberjack Sawmill, a model sawmill built by Sylvans members, became a regular attraction at all the home football games starting this year.

Considering this, we are privileged to say that through the cooperation of the members this has been a very successful year. Also, I wish to say that I hope the Sylvan who writes in this space next year feels as honored to do so as I.

SYLVANS CLUB



Front Row L to R: R. Alexander, Hamilton, Brown, Gann, Ussery, Holaday, Prestridge, Laboa. Second Row: Higgins, Quenichet, Hull, Levens, Rheiner, Maggard, Bauer, Dowden, Moore, Maxwell. Third Row: Jeane, Utley, Towry, Fields. Fourth Row: Westley, Ramsey, Caldwell, Green, Barrow. Fifth Row: Brooks, Tatum, Summers, Huckaby, Gilmore. Sixth Row: Gaumer, Peters, Richerson, Watson, Wark. Top Row: Lisle, D. Alexander, Fairchild, Lott, Mason.



ROY SCOTT BEASLEY
Lufkin, Texas
Phi Eta Sigma; Sylvans
Club.



BOBBY JOE COX
Henderson, Texas
Phi Eta Sigma; Sylvans
Club; Lacy Hunt Scholar-
ship; Represented SFA at
the annual meeting of Gulf
States Section of Society of
American Foresters at
Natchez, Mississippi.



CLAUDE DOWDEN
Waskom, Texas
Sylvans, 1961-64; Texas
Tally Staff, 1962-63; Pre-
sident, 1963-64; Intra-
mural Sports, 1961-64;
Work Project Chairman,
Spring 1963; Summer camp
photographer, 1962; Delta
Sigma Phi.

SENIORS



MELVIN H. DURHAM
Corrigan, Texas
Sylvans, 1959-63; Intra-
murals, 1962; Graduate,
January, 1964.



IRVEN E. DUGGAN
Crockett, Texas
Sylvans, 1959-63; Texas
Tally Staff, 1963; Float
Committee, 1962; Grad-
uate, January, 1964.



WILLIAM EVERETT FORD
Center, Texas
Sylvans, 1962-63, Grad-
uate, January, 1964.



JACK GANN
 Bay City, Texas
 Sylvans Club, 1960-64;
 Business Manager Texas
 Tally, 1962; Table Tennis
 Champion, 1962-63; Intra-
 mural Sports, 1960-64.



OLIVER "SONNY" GEE
 Rockdale, Texas
 Sylvans Club 1961-64;
 Summer Camp Reporter
 1962; Theta Chi, Pres.
 1963-64; Senior Class
 Favorite, 1964; Most Typical
 Boy, 1964.



GARY GILMORE
 Killeen, Texas
 Sylvans, 1960-64; Sec.,
 1963-64; Texas Tally Staff
 1962-63; Summer Camp
 Scholarship, 1962; Intra-
 mural Sports, 1961-1964.

SENIORS



WILLIAM E. GOSSAGE
 Kilgore, Texas
 Sylvans Club, Phi Eta
 Sigma.



JAMES B. HULL, JR.
 Banquete, Texas
 Sylvans Club, 1961-64;
 Treasurer, 1963-64; Intra-
 mural Sports, 1961-64;
 Phi Eta Sigma Vice-
 President; Summer Camp
 Council, 1963; Alpha Phi
 Omega, 1962-64; Secre-
 tary, 1963.



GLEN LISLE, JR.
 Odessa, Texas
 Sylvans, 1961-64; Texas
 Tally Staff, 1962-63;
 Sargenat-at-arms, 1962-
 63; Intramural Sports,
 1961-64.



RAYMOND L. LOTT
Houston, Texas
Sylvans Club, 1962-64;
Graduate, January, 1965.



BOB RHEINER, JR.
San Antonio, Texas
Sylvans, 1959-1964; Secretary, Texas Tally Business Manager, 1962-63; Graduate, January, 1964; Delta Sigma Phi.



JAMES DOUGLAS SALYER
Sinton, Texas
Sylvans, 1959-63; Sgt.-at-arms, 1961-62; Treasurer, 1962-63; Intramurals; Conclave, 1962; Graduate, January, 1964.

SENIORS



ROBERT B. WAITE
Port Neches, Texas
Sylvans Club 1960-64, Work Project Chairman 1961-62; ASFC Conclave, Third Place Bowsaw, 1962; Fine Arts Comm., Spring 1964.



JAMES C. WARK
Lufkin, Texas
Sylvans, 1958-64; Texas Tally Staff 1962-63; Texas Tally Business Manager 1963-64; Intramural Sports, 1960-64; Conclave, 1962; Texas Forestry Association; Theta Chi National Fraternity.



HAROLD T. WILDER
Pasadena, Texas
Sylvans, 1961-63; Intramurals, 1961-63; Theta Chi Athletic Director, Marshall; Best Dancer-Theta Chi all school poll.



"Look, I know it can be transplanted."

SENIORS



"What's the finagle factor on this, Claude?"

JUNIOR SYLVANS CLUB MEMBERS



Standing L to R: Winston Towry, Howell Brown, Grant Gaumer, Ken Prestridge, Terry Brooks, Will Richerson, Victor Hamilton, Raymond Lott, Mike Holaday. Sitting L to R: Raymond LaBoa, Jimmy Hull, Sammy Barrow, Jimmy Watson, Leon Levens, Hershel Fields.

Juniors not shown: Kenny Austin, Jud David, Mike Faulkner, Freddie Keel, Robert Modisette, Kent Scott, Wm. T. Williams.



The victors take it easy.

SOPHOMORE SYLVANS CLUB MEMBERS



Standing L to R: David Huckaby, Patrick Fairchild, Herbert Peters, Gordon Summers. Sitting L to R: Phil Higgins, Garland Mason, Wayne Quenichet, Earl Ussery.

Sophomores not shown: Oscar Clayton, John Palmer, Kenny Shaw.



Sophomores in the field.

FRESHMEN SYLVANS CLUB MEMBERS



Standing L to R: Bill Utley, David Westley, Dave Alexander, David Maggard, David Ramsey, Wayne Caldwell, Ronnie Green, Mickey Jeane. Sitting L to R: Ronald Moore, Robert Alexander, Pat Maxwell, John Tatum, Gary Bauer.

Freshmen not shown: Bill Amerman, Chris Bettie, Bill Boulter, James Brint, Ken Buckle, Rae Carter, William Coleman, James Collins, Jerry Crosby, Patrick Fairchild, David Fry, Tommy Graham, Floyd Hatch, John Haynes, Jerry Ketchum, Billy Mazza, Nickie McMillan, Wayne Neely, Terry Nied, Pat O'Neil, Bill Price, Dennis Russell, Lynn Shands, Bill Sloan, Jimmy Sorensen, John Stoval, John Walton, Bob Wilson.



Drawing Lab

PHI ETA SIGMA FORESTRY HONOR SOCIETY



Sitting L to R: Grant Gaumer, Kenneth Prestridge, James Hull. Standing L to R: Scott Beasley, Bobby Joe Cox, Bill Gossage, Leon Levens, Herschel Fields.

Phi Eta Sigma, Forestry honor fraternity at Stephen F. Austin State College, has initiated charter members and elected officers for the coming year.

Officers named in the new fraternity include Grant Gaumer, president, Houston; Jimmy Hull, vice-president, Banquete; and Leon Levens, Secretary-treasurer, Corpus Christi.

Members initiated include Roy Beasley, Lufkin; Ken Prestridge, Olton; Bobby Cox, Henderson; Herschel Fields, Houston; William Gossage, Kilgore; and Levens, Gaumer, and Hull.

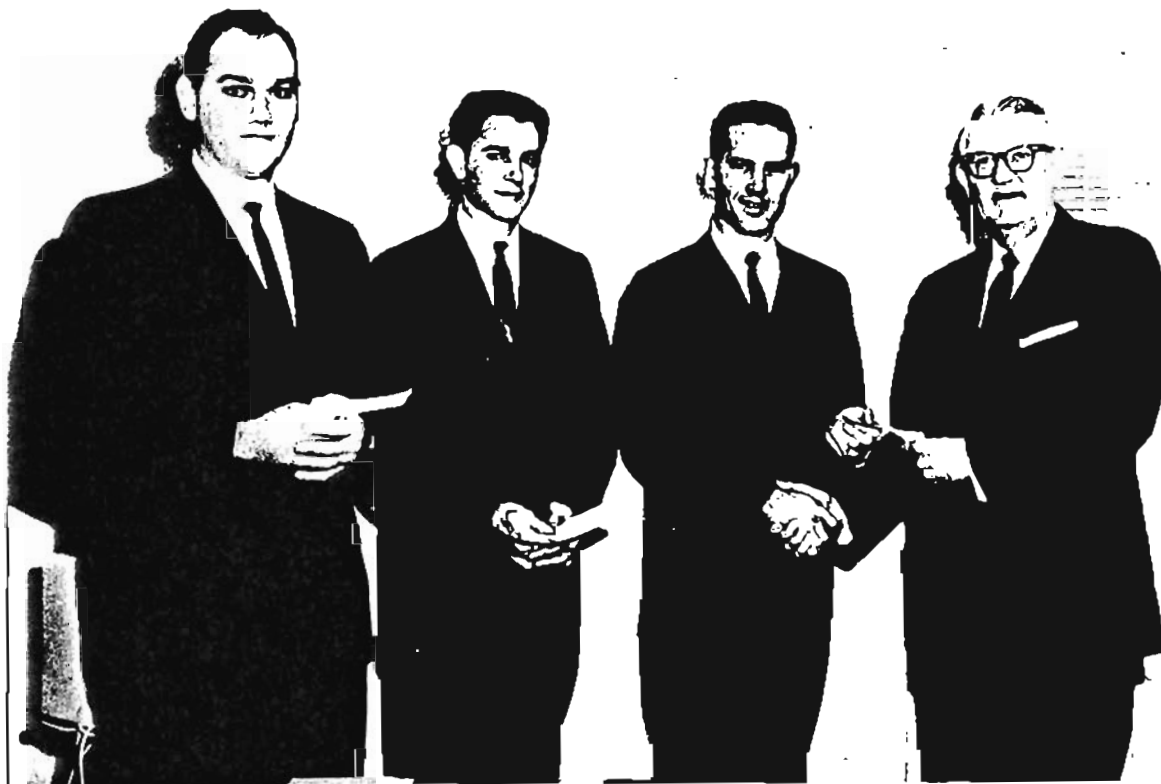
The Fraternity is sponsored by members of the faculty of the Department of Forestry at SFA, who are members of Xi Sigma Pi, national honorary forestry fraternity. Phi Eta Sigma has submitted a petition for a charter to Xi Sigma Phi, which currently lists 23 active charters with approximately 6,000 members.

Objectives of Phi Eta Sigma are to secure and maintain high standards of scholarship in forestry education; to work for the advancement of the forestry profession, and to promote fraternal relations among earnest workers engaged in forestry activities. Eligible members must be a junior or senior student academically, and rank scholastically in the upper 25 per cent of his class.

Forestry faculty members at SFA include Dr. Laurence C. Walker, department head, Dr. Robert D. Baker, Dr. Leonard Burkart, Dr. Gary Schneider, Ellis V. Hunt, Jr., Billy Dean Scott, and Dr. M. Victor Bilan.

Dr. Robert Maxwell, professor of history at SFA, presented a talk at the initiation ceremony entitled, "Texas Timber Barons." His address traced the lumbering history of Texas from the early explorers to the modern industrial managers.

SCHOLARSHIPS



Lacy Hunt Scholarship: Will Richarson, Grant Gaumer, Ken Prestridge.

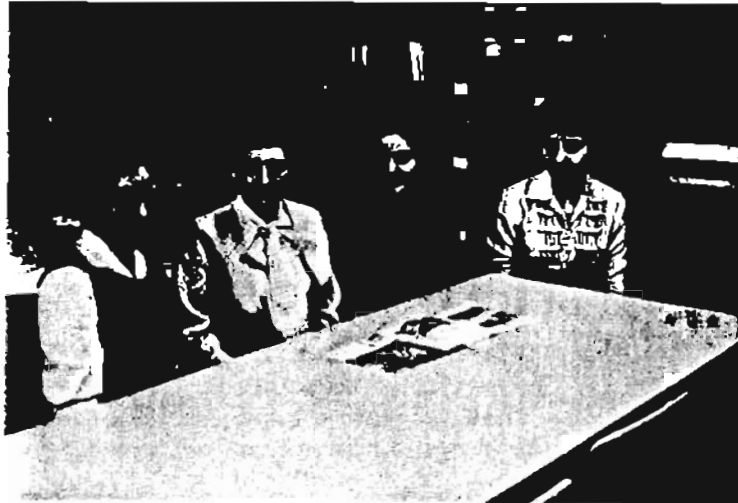
OTHER SCHOLARSHIPS

Friends of Texas Scholarship - DOUGLAS SALYER

Summer Camp Scholarship - WILL RICHERSON

Kiwanis Club Scholarship - WILL RICHERSON

LAURELS CLUB



L to R: Betty Richerson, Tijuana Gilmore, Delores Barrow, Pat Dowden.

The LAURELS CLUB was formally organized and named in 1962, for the purpose of promoting fellowship among the wives of SFA forestry majors and increasing the wives' knowledge of the profession of forestry. Through their meetings, the members have an opportunity to learn about the various phases of forestry and their effect on the life of the forester and his family. The LAURELS CLUB cooperates with the SYLVANS CLUB and assists them in their activities by helping with the homecoming float and decorating for the annual Christmas Dinner-Dance. The president for the 1963-64 school term is Pat Dowden, and Tijuana Gilmore is the vice-president. The club meets biweekly in the homes of the members.

FISHING TRIP '63

About 3:00 P.M. on a fine Friday afternoon in April of 1963, 25 sober minded Sylvans Club members pulled out for Lake O' the Pines, expecting some great fishing. Between 4:30 and 5:00 P.M. the group began to arrive at or near the lake. After a mid-afternoon cup of tea some of the fellows tried fishing, some boat riding, and some—more "tea."

A few fish were caught that afternoon. Among the great anglers was "Bear." He caught his first bass that afternoon and around midnight finally got them cleaned. Maybe they were a little strong, but he was proud. After supper, the trotlines were strung, and as darkness crept over the face of the deep, the Fearless Five decided to gig a few bullfrogs. Rheiner, Lisle, Gilmore, Dowden, and Duggan left the shore in a 12-foot, over-powered (not to mentioned overloaded) boat. After Rheiner tried to kick Duggan out of the boat because of a piece of moss, which he thought was a snake, around his neck, the gigging party returned. There were no frogs, but everyone was glad to be back on dry land.

Daylight, which came early, found Mr. Builteman of I.P. and Mr. E. V. Hunt on Hurricane Creek. They brought in a few, one over 5 pounds, but the "Goldie Kid" took no bows except for netting the big one. Several good strings were taken that morning and throughout the day, with the ole fishermen Ford and Gibson sporting the limit.

Shortly after Saturday dinner, a barge full of faculty lowered sails and pulled up in the inlet. After Capt. Kemp waded ashore and made fast his launch, deck hands Baker, Bilan, Schnieder, and Scott stepped out on dry land. At this time a few brave lads tried the aquatic sport of water skiing. After a few good hard falls and sking into the bank they decided to go back to fishing and/or refreshments. Oh yes, Lisle says, "I don't care if you are the head, don't try to bum off of me."

After two good days of fishing, socializing, cleaning fish on the Bar-B-Q table (our apologies to I.P.), everyone packed up and headed back to Nacogdoches looking forward to another trip next year.



The Sylvans' Crew

FISHING TRIP



The Catch Of Three



One Man's Haul



A Close-Up



The Fishermen



The Skilling Rig

SUMMER CAMP 1963

The day cannot be recalled when all the hell actually started in the backwoods around Milam, Texas. I guess the boys were beginning to feel like cattle after Mr. Scott hauled them over 1500 miles to various wood-using industries; however, the day was saved after a stop over at the line.

Mr. Hunt had a nervous breakdown during Logging and Sawmilling due to Keel and the "cat", Lott and the "Green Monster", and Fields and the jeep. Doc Wallace was teaching Silviculture and Mensuration, but it wasn't very often that he was seen. There was a rumor that he poured two quarts of 30 weight oil down the carburator of the borrowed tractor. While he read his sex books in the truck, we always talked, smoked, and finagled by the creek near corner K—(for the boys next year).

Overall, everything went fine. Everyone was always in good spirits and always happy to tell you what they thought of summer camp. The highlights of summer camp may be recalled by the old boys as Bennie the boot-legger, the joyous ride in the stolen jeep, or maybe just Doc Baker flying off the handle.

Playing baseball with nearby towns helped to keep the spirits up, especially those of the people at Hemphill and Pineland. I don't think they ever won a game unless Doc Wallace gave them one or two runs with his great pitching ability.

The day was August 16 when the gate was closed for the class of '65! Everyone was in a daze that day. No more one foot contours, no more logging, no more d.b.h., no more bus, no more bell,—no more summer camp.



Top Row L to R: Dr. Wallace, Will Richerson, Ken Prestridge, Victor Hamilton, Jimmy Watson, Wm. T. Williams, Raymond Lott, Grant Gaumer, Mike Faulkner, Mr. Hunt. Second Row L to R: Jimmy Hull, Raymond LaBoa, Kent Scott, Jud David, Freddie Keel. Third Row L to R: Terry Brooks, Mike Holaday, Scotty Beasley, Mason. Front Row L to R: Leon Levens, Herschel Fields, Howell Brown, Robert Modisette, Kenny Austin.

MENSURATION



Hell! I'm a Genius.



Yippy, Skippy! The Great Outdoors!



What The Devil?



Right Between The Eyes.



The Conspiracy.



"Civilization"

SURVEYING



No, I Say North Is There!



Stick!
Stuck!



A Beautiful Job Of Leveling.



He Plumbs, I Supervise.



Cookie



Is A 300% Slope O.K.?



How Did We Get Up Here?



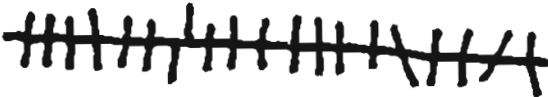
The Summer Camp Band

SURVEYING FIELD LEGEND

Legend Fences -x-o-x-o-x-o-x-o-x-o-x-o

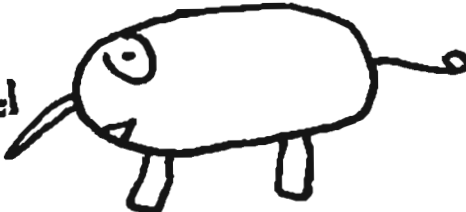
Excess Road 

Woods Road 

Tramp 

crick 

bunch of cricks 

Elefunks burial ground 

Tick 

90°: A2 = oh oh
oh oh

Contour 

1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

LOGGING AND SAWMILLING



The Stand



The Logging Method



The Logger's Dream



The East Texas Sawlogs



The Head Sawyer



The Results

SUMMER CAMP



Mama?



Another Pet!



Somebody Give Dammit A Light.



Wonder What's Inside
That Thing?



Mother Pig



Chow Time-



A Dog's Rough Life



Take It Easy On The Boys,
Mr. Hunt—Or Else!

SUMMER CAMP



If You Don't Like The Food,
Don't Eat It.



Scrambled T-Bones Again. . . .



Force It Down.



Hello, Mamal
It's Test Time Again.



I Have Had All I Can Take.



Bed Partners.

SUMMER CAMP



Just One More Time, Mr. Hunt!



I Warned You!



The Last Day!



Almost Time To Go Home.



The Last View Of Summer Camp!!!

THE DAY THE FRESHMEN WON¹

by E. V. Hunt (Chief Ref.)



At the end of the third week of the fall semester, before the students were too weak from "all that studying," and with extremely good planning for sports facilities (none of which were in place), the Sylvans (who could get out of bed) assembled under a cloudless sky for another day of games and picnicking. After a series of feverish phone calls and some anxious moments, the equipment and people were all together on the intramural field, and the games got underway. It soon became apparent that the sophomore class was short of men, and a great howl of anguish arose when some were extracted from the junior class and forced into the sophomores. Bravely ignoring the threats of greivous bodily harm leveled at him from the juniors, the magnificent Mr. Hunt swung things into action with the first event—the football throw.

It was soon evident that the man to beat was Will (Richerson) to the great satisfaction of the junior class. When the final tally was shown the first event placed the following men from first to last: Barrow, Quenichet, Fairchild, and Will.

In the baseball throw, which was next, skinny little Wilder (Tex) put all the big boys to shame with a heave that nearly left the county. Quenichet, O'Neil and Ramsey also scored.

In the bow-sawing contest Gilmore showed up the big strong boys and won first place followed by Tatum, Quenichet and last but not least, Will. Will and Sammy Barrow won the crosscut-sawing event, however, so the big-uns were back in, followed by Maggard and Bauer, Gee and Duggan, and last of all the lowly seniors, Lisle and Dowden.

Two team races were run and the superior training of the upperclassmen became evident when the Wilder-Gann team won the three-legged race followed by Brown-Fields, Peters-Quenichet and Gaumer-Faulkner, and then Snake (LaBoa)-Levens (wotta team) won the wheelbarrow race followed by Gee-Wilder, Caldwell-Ramsey and Summers-Shaw.

In the meantime, Dowden (the president having placed last in the crosscut-sawing) entered the only other individual event he felt sure of winning, namely horseshoe-pitching, only to find that Prestridge was his master. It was interesting to note that the freshmen "out-lasting" the sophomores to win third place in this grueling event.

¹ The author always wishes the freshmen would turn out in force and be the winning class, but it never happens, and this year—again—the freshman class won fourth place in the competition.

Competition in the egg-throw was very keen, and it was noticeable that though Quenichet was a stalwart all day on the sophomore team, he didn't perform too well in this event, a major reason why his team was tail-ender while the juniors won both first and second place and the seniors third.

Since no one could stick the target in the knife throw, it developed into a contest of endurance while Wilder hovered around crying "My poor knifell!" Then it happened—a particularly lusty heave broke it smack in two—and no one collected any points in this event.

Of the team events before lunch, none was more hotly contested than the volleyball, and in spite of some extremely "adroit officiating" the teams finished in order—senior, junior, sophomore and freshmen. The order of the winners was surprising since the sophomores had so few men. They recruited faculty members and could therefore logically have expected to win with Baker, Scott, Walker and Bilan on their side. The juniors complained about the officiating, of course, but the seniors claimed it was just the breaks of the game.

After "chow," during which everyone competed gamely and nearly succeeded in eating all the chicken, came the final event; the tug-of-war. In this event, Will was not to be denied and the juniors won handily. The really important battle was between the sophomores and the seniors for third and fourth place. The short-handed sophomores recruited Hunt for this event and in spite of this handicap, they finally put the seniors in their place—last! With this ignominious defeat the club president, Dowden (a senior), declared the 1963 picnic finished and the final scores were:

<u>Class</u>	<u>Points</u>
Junior	94
Senior	71
Sophomore	39
Freshmen	38

The record of each event in the 1963 Sylvans Picnic:

<u>Event</u>	<u>First</u>	<u>Second</u>	<u>Third</u>	<u>Fourth</u>
Baseball throw	Sr.	Soph.	Fresh.	Fresh.
Football throw	Jr.	Soph.	Fresh.	Jr.
Egg throw	Jr.	Jr.	Sr.	Soph.
Bow-sawing	Sr.	Soph.	Fresh.	Jr.
Crosscut-sawing	Jr.	Fresh.	Sr.	Sr.
Volleyball	Sr.	Jr.	Soph.	Fresh.
Crab race	Sr.	Fresh.	Soph.	Jr.
Three-legged race	Sr.	Jr.	Soph.	Jr.
Wheelbarrow race	Jr.	Sr.	Fresh.	Soph.
Horseshoes	Jr.	Sr.	Fresh.	Soph.
Tug-of-War	Jr.	Fresh.	Soph.	Sr.

SENIOR FIELD DAY

The Sylvans annual Departmental Field Day was, as usual, a success. The food, excellently prepared under the watchful eyes of the senior officers, was delicious (although there were several reports of the meat dish attempting to fly away under its own power). These reports were, however, remote and scattered, and they are widely held to be nothing more than spiteful rumors.

Competition and participation was very good in this year's events: e.g., wheelbarrow race, three-legged race, bowsawing, volleyball, baseball throw, etc. The participants from all four classes of forestry majors showed great skill and luck (the former more noticeable among the seniors) in all of the colorful contests.

The seniors, eight strong, finished with a high second for the day. A first place finished was prevented by a small technicality—the junior class.

So it turned out to be a typical field day. No tempers, students, or blood was lost. The professors, as well as the students, seemed to have a good time, and next year should even be better.



Oh! My Back.



Ballet Star



The Old Men

JUNIOR DAY

The Field Day was on a beautiful Saturday morning; at least the Juniors felt good. As anyone could see, the Juniors were out to win.

The overwhelming triumph was nothing unusual, merely in the Juniors stride of fair play. There was plenty of food to eat; therefore, many of the professors were present. The professors also participated in the "judging" of the various contests.

Field Day was a most successful day, for everyone had a good time. The Junior Class expresses its extreme sympathy to the other classes for their not being capable of producing a winning team. Ha! Better luck next year.



Volley Ball Match



Such Grace!



Bow Sawing Winners



It's Still Alive

THE SOPHOMORE FIELD DAY

On October 5, 1963, the Sophomores came forth to prove their superiority. A few freshmen has stolen our alarm clocks, and as a result, most of us were late in pulling off the covers that morning. The few representatives, who had hidden their clocks, were up early and ready to go forth and put their boasting into action.

The first set-back was the egg throwing contest. We didn't mind using raw eggs while everyone else used hardboiled eggs, but we were mad when we were defeated after throwing the eggs at 2,000 yards. We would like the seniors to tell us how they tossed the egg (minus the shell) that far!

After the Sophomores broke the throwing knife, the Freshmen destroyed the ax throwing block, and the Juniors tied all four of our legs together in the three-legged race, we decided that all we needed was a good bar-b-que lunch and lady luck just might give us a helping hand. Just as we started to retire from competition, the gal did hear our cries, and we won first place in the wheelbarrow race.

As the setting sun sank slowly towards the horizon, the Sophomores were still in high spirits. One could hear the echo over the field of battle, "Last but not least, the mighty Sophomore class of '63".



3-Legged Race Winners



Oops!



Is This Thing Ironwood?

THE FRESHMAN FIELD DAY

On That fateful Saturday, October 5, the freshmen forestry students went forth to engage in contests with three experienced and overconfident upper-class teams. We were inexperienced, but we were determined to win.

With admirable persistence we entered event after event, only to be beaten time and time again by one of the shrewd, upperclass teams. The shame of it all! Our numerous losses were, no doubt, the product of a unique and intricate scoring system devised especially for the field day. At least that's the best excuse that we freshmen have been able to produce.

After the contests and an enjoyable meal of barbecued chicken, we departed wiser and more experienced, echoing our war cry for all to hear: "Wait 'til next year!"



Pull!



They Are Smaller, But Faster



Cross-Cut Winners



Wheelbarrow Race Winners

FIELD DAY



Tired Feet



Quarterback?



Meditation



Chow Time



Tiger



Rest Period



Conference



Mike "The Knife"

HUNTING TRIP 1963

On a weekend in November of 1963, permission was granted by W.T. Carter and Brother Lumber Company to the Sylvans Club for a squirrel hunting trip to Carter's pasture.

From the time of departure until the hunting party reached Carter's pasture, nothing seemed to go according to plan. A few minor incidents such as Lisle's car stopping traffic in Lufkin and our guides "accidentally" discovering an abundant supply of "tea" at Goat Hill, caused us to arrive at the Carter pasture well after dark. Amid the confusion of our arrival, Youngblood became a millionaire at penny-ante poker.

Jud was the most popular man in camp the next morning (if 5:00 A.M. can be called morning), when he was almost shot 30 times for trying to arouse the group for "the hunt." He succeeded in arousing a few of the veterans who adventured into the woods, although most of them were found stretched out on the road not more than 100 yards from camp.

The hunting trip was a big success; over 200 squirrels were killed. Some members managed to shoot their limit, others shot only one or two, but everyone received a fair share of the game.

The Sylvans would like to express their thanks to W. T. Carter and Brother Lumber Co. for the privilege of hunting the hardwoods in the Carter pasture.



Squirrel Skinner.



The Lodge In The Woods

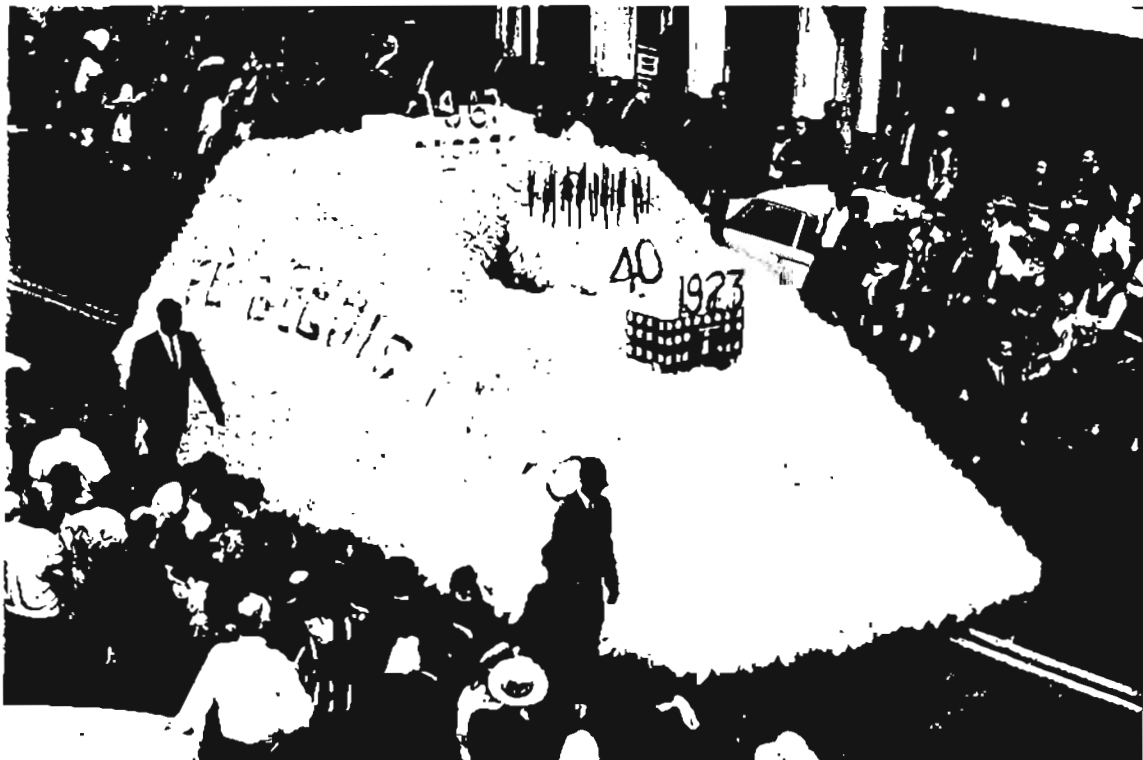
LIFE BEGINS AT FORTY

It was again homecoming at Stephen F. Austin. Everyone was at the football game, and at that particular moment it was time for announcement of the winners in the float division. This year the Sylvans had a good, impressive-looking float, but none of us was sure just how good or how impressive it really was. There were nine floats entered in competition. As the announcer was commenting about the floats, each Sylvan must have started remembering all that had gone into building that ole float. The plans were drawn up by our three architects—Richerson, Prestridge, and Hull. Of course, this was done at the last possible moment; so as usual, the float was to be a rush job. Actually, progress wasn't made on the float until two nights before the parade and it really didn't look like anything until the wee hours of the morning of the big day.

The third place trophy was awarded to the $\phi\Delta\Omega$. There were two trophies to go and tradition said the $\Pi\kappa\alpha$'s would get one of them. The Sylvans Club still had a small chance, thanks to a few, exhausted foresters and some of their girl friends, who made the all night stand at Old Forestry Hall. We were still putting little odds and ends on the float as it rolled into the parade starting point. The float was received with much applause throughout the parade route.

Then came the second place trophy. It went to our biggest rivals, the $\Pi\kappa\alpha$'s. Things had now come down to the wire; it was win-all or nothing. The next few moments seemed like eternity for 93 members, faculty, forestry alumni, duchess (Miss Kay Lobue), and our little steamwhistle that kept tooting with all its might down in the end zone.

Then it came at last, "the first place trophy goes to the SYLVANS CLUB, and for the Sylvans, Life has really begun at 40."



First Place Float

HOMECOMING



Napkin Twisters
(Used 28,916 Napkins)



Hide It



Hil



Supervisors



Grrrr, I'm A Bear



The Finished Product



Miss Kay Lobue

HOMECOMING DUCHESS 1963

Kay Lobue was elected as the Sylvans Club's Homecoming Duchess for 1963. Her home is in Houston, Texas, and she is presently a Junior with a math major and a biology minor. Miss Lobue was also the treasurer of the Fidele Social Club at Stephen F. Austin State College for the 1963 fall semester. Kay's escort to the Homecoming activities and the Christmas Dinner-Dance was Grant Gaumer.

In addition to a first place homecoming float, Sylvans' participation in homecoming activities included the Lumberjack Sawmill. The purpose of this miniature sawmill was to create spirit during the homecoming game. The sawmill consisted of an oxygen-operated whistle mounted on an old lumber cart and included all minute details of a sawmill.

Our sincere appreciation is extended to Bobo Brothers from whom the steam whistle was obtained.



The Duchess Before The
Homecoming Parade

SYLVANS CLUB INTRAMURALS

Participation in intramurals not only offers to many of us an outlet from the tensions of college life, but also gives us the opportunity to work together and to become better friends.

The Sylvans, having been beaten by Delta Sigma Phi and Phi Kappa Alpha, ended the intramural football season in third place. Those teams defeated by the Sylvans were Theta Chi, Alpha Phi Omega, Phi Delta Theta, and the Baptist Student Union (BSU). Many of the Sylvans were new in intramurals this year, and we feel that with the experience gained we can have a winning team next year.

Our special thanks go to Dr. Gary Schneider (football) and Mr. Billy D. Scott (basketball) who donated their time and efforts as coaches to work with the teams. Also, it was comforting to have the backing of the other members of the forestry faculty at the games. We know that they stand behind us in anything contributing to our becoming better men.



The Coach And His Team



Captain Of The Squad



Sylvans' Football Team



Sylvans' Basketball Team



Action On The Court

CHRISTMAS DINNER-DANCE

1963

The fall semester, with its football games and homecoming festivities, was climaxed by the annual Sylvans' Christmas Dinner-Dance.

The Dinner-Dance was held at the Piney Woods Country Club on the night of December 7th. After a very enjoyable meal, Mr. Lacy H. Hunt, prominent Nacogdoches lumberman, presented his annual scholarships to three students: Grant C. Gaumer, Wilbur A. Richerson, Jr., and Kenneth Prestridge. Claude Dowden, Sylvans' President, on behalf of the Sylvans' Club, then presented to Mr. and Mrs. Hunt an engraved silver tray, which was commemorative of the club's appreciation of Mr. and Mrs. Hunt's interest and support of our department.

Mr. Bob Murphey, noted Nacogdoches lawyer and humorist, was our guest speaker this year. Along with a few humorous stories, wasp stings, and cold drafts, Mr. Murphey presented an inspiring talk on what Christmas means to him and what it should mean to everyone.

Music for this year's dance was supplied by Amos Boynton and the "ABC's." Highlights of the dance seemed to be the twisting talents of Dr. Schneider, James Wark, and "Bear" Ussery.

Everyone present enjoyed himself until midnight when the 1963 Sylvans' Christmas Dinner-Dance came to a reluctant stop.



Punch To Drink.



And

. Music To Dance By

TEXAS FORESTRY ASSOCIATION

E. R. Wagoner, Executive Secretary

Every once in a while a cause arises with an appeal so strong and so universal that it gathers together people from all walks of life and welds them into a cohesive unit for concerted action. Such a cause gave birth to the Texas Forestry Association. As stated by a well-known East Texas educator, membership in TFA is a sign of good citizenship.

TFA pioneered forestry in Texas. Since 1914, TFA has been serving Texas and Texans as a non-governmental, non-profit, statewide, privately supported educational organization, promoting the fullest economic development and utilization of our forests and related resources.

The objectives of TFA are to advance the cause of forestry; to develop public appreciation of the value of Texas forests and their importance in the economy and over-all welfare of the State; to assist in determining and securing the adoption of the most beneficial forest policy within the State; to cooperate with the Texas Forest Service and other conservation organizations and agencies in the attainment of mutually desirable forestry objectives; and by all practical means encourage the expansion, protection, proper management and wise use of all forest and related resources of Texas.

For a half century TFA has served Texas and Texans with distinction. It is dedicated toward improving the economic development of the state. The Texas Forestry Association has a program which offers profound rewards to every citizen. Membership is not a contribution. It is a sound investment in this area and in the State. TFA is a true association of industries, businesses, organizations, groups, and individuals banded together to promote a better Texas.

The forestry educational program of TFA has materially strengthened the hand of forestry in Texas' economy and TFA will continue to work for these objectives.

TFA has co-sponsored 25 summer youth forestry shortcourses. More than 1350 youths and adult leaders have been given the benefit of field training at these shortcourses.

TFA has distributed more than 9 1/2 million pine seedlings free to East Texas youth, more than the quantity required to reforest 9,500 acres of East Texas woodlands. TFA sponsors the Forestry Award in the Save the Soil and Save Texas contest.

In cooperation with the Texas Forest Service, TFA has displayed conservation posters on 850 outdoor billboards, sponsored forestry essay contests, printed and distributed thousands of copies of forestry circulars and produced several forestry motion picture films.

The Association encourages tree farming, observance of Arbor Day and National Forest Products Week; awards forestry medals to youth groups; helps promote the Sears Foundation Forestry Awards program for FFA Chapter and 4-H Club youths and additional educational projects for scouts and other youth groups.

A reward of \$500 has been offered by TFA for information resulting in the arrest and felony conviction in District Court of any person or persons responsible for committing a felony by willfully starting a forest fire in East Texas. TFA has sponsored the dedication of four State Forests, the Texas Forest Fire Prevention Conferences, and Forestry scholarships. For 50 years, TFA has promoted the most beneficial forest policy for Texas.

The Forestry educational program of TFA has materially strengthened the hand of forestry in our Texas economy, and TFA will continue to work toward that objective. TFA is building Texas forest economy through voluntary action.

A SKETCH OF THE TEXAS FOREST SERVICE

By John A. Haislet*

Fifty years ago, the virgin timber stands in East Texas were fast disappearing and destructive logging was common. During this period in our nation's history, the Texas Forest Service was conceived and created by men who recognized the need for a forestry agency, and did something about it. In 1965, the Service will be celebrating its Golden Anniversary.

Prior to 1915, a few attempts were made to protect Texas' valuable forest resource; however, none were broad enough to cope with the situation. Then about 1898, Dr. B. E. Fernow, chief of the Division of Forestry, U. S. Department of Agriculture, urged W. Goodrich Jones, a Texas businessman and banker of Temple, to make a survey of the East Texas piney woods. Jones did so and was impressed at the vast areas of timberland, whereupon he set about to get the State Legislature to establish a state forestry agency.

The road was difficult and many discouraging set-backs occurred before the Forestry Bill was signed into law in 1915. The year before the final bill was signed, Jones was instrumental in organizing the Texas Forestry Association at Temple. This organization, with Jones at its helm, was the vehicle by which the Forestry Bill was presented to the State Legislature.

Instead of establishing another state agency, the new organization was placed under the Board of Directors of the Agricultural and Mechanical College of Texas at College Station. Because of this arrangement, state foresters have been relatively free of political interference and have been allowed to administer the agency so that the best interests of tree farmers, forest products industries and the public are served.

Texas' first state forester was J. H. Foster, a native of Vermont, who served from 1915 to 1918. As State Forester, Foster was not only responsible for general forestry activities but also held the titles of Chief, Division of Forestry in the Texas Agricultural Experiment Station and Professor of Forestry in the academic division of the A & M College.

The first state appropriation for forestry was \$10,000; however, the following year, 1916, an agreement was signed with the U. S. Forest Service which provided an additional \$2,500 under the Weeks Law of 1911. During 1916 and 1917, the organization grew to include an assistant state forester and six mounted patrolmen. The latter were stationed in the Piney Woods at Linden, Longview, Lufkin, Jasper, Livingston and Tenaha respectively. By contrast, the organization today has an annual budget of about 1 1/2 million dollars and has more than 300 employees.

From its beginning, this agency has used an educational approach in furthering its objectives. While State Forester Foster was lecturing on forestry at College Station, the patrolmen were each covering about 1 1/2 million acres with instruction to meet all citizens, tell them of the damage wrought by wild forest fires, and urge them to help reduce the waste.

In 1918, E. O. Siecke, a native of Nebraska, succeeded Foster as State Forester and served until his retirement in 1942. He is a Fellow in the Society of American Foresters and serves as president emeritus of the Texas Forestry Association.

The first three years of Siecke's appointment were largely consumed by academic demands on his time. However, a rider on a legislative appropriations bill relieved him

*Educator, Texas Forest Service, College Station

of his academic responsibility. State foresters have since been allowed to spend their full time directing the agency to meet its objective, i.e., persuade landowners to practice forestry, and create a public attitude that would make it possible for timber landowners to practice forestry.

In 1926, the Board of Directors changed the agency name from Department of Forestry to Texas Forest Service and the State Forester received the title of "Director", thus making the Service a major administrative division of the college.

Some of the major accomplishments under Siecke's direction included: the acquisition of five state forests; construction of three state tree nurseries; construction of the first permanent fire lookout towers; first use of mechanized equipment to suppress forest fires; and the first Southern state to make extensive use of aircraft for forest fire detection.

W. E. White succeeded Siecke as state forester in 1942. He was employed as a division patrolman in 1927 and rose to head the Division of Forest Protection in 1930.

During White's term as state forester, 1942-48, our nation was engaged in World War II. Personnel were scarce and equipment was difficult to maintain and replace. Nevertheless, the Service continued to expand and improve its services to the public.

Replacement of the vast telephone communications system, which had been expanded by the Civilian Conservation Corps in the late 1930's began in the early 1940's and was completed in 1949.

Fire suppression was greatly improved in 1946, when jeeps equipped with middle-buster plows were employed. By 1950, light tractors, similar to those in use today, were introduced.

In 1944, the Service, in cooperation with the Texas Forestry Assn., the Southern Pine Assn., and the East Texas Chamber of Commerce, inaugurated the Tree Farm System in Texas.

Following White's resignation in 1949, Dr. A. D. Folweiler was named Director of the Service. Under Folweiler, the philosophy that fire protection is merely a part of forest management, was adopted. Control of forest fires became the means to an end, not the objective.

Today, the overall programs of the Service, as approved by the Director, are planned by the personnel of four departments; Forest Products, Forest Management, Forest Fire Control, and Information & Education. Training and Supervision of district personnel by the departments, assures uniformity of these programs as executed by the districts.

Only graduate foresters are appointed as administrative heads in each of the seven districts. In the Piney Woods, each district forester is responsible for between 1 1/3 and 2 1/3 million acres of privately-owned forest land. District Seven, organized in 1961 and headquartered at College Station, covers more than 5 million acres in the post oak region.

In 1951, the Service became the first Southern state organization to undertake an extensive program of tree improvement research. The objective of this program is to develop drought resistant pines, improve tree quality and growth, and breed tip moth and southern pine beetle resistant strains of southern yellow pine.

The latest advance in the Service program occurred in 1962 when, due to ravages by the Southern pine bark beetle, a forest entomologist was employed to head the newly formed Forest Pest Control Section.

There is little doubt that the creation of a state forestry agency was inevitable, but had the start been delayed or the leadership been less than it has been, Texas' current position, of growing 25 per cent more wood than it uses, might be just the reverse.

NATIONAL FORESTS IN TEXAS

The National Forests in Texas came into being under the Weeks Law of 1911, after the Texas Legislature of May 1933 invited the establishment of National Forests in East Texas. All the National Forests lands were acquired through negotiated purchases from private individuals and lumber companies. Most of the land had been previously cut over for all the merchantable timber. 95% of the total acreage acquired was bought from eleven lumber companies. The largest acreage—over 94,000—was purchased from Houston County Timber Company.

The lands acquired were separated into four National Forests. These were named to reflect the history and geography of East Texas. The Angelina National Forest, 154,400 acres, was named for the Angelina River. The river in turn acquired its name from the Spanish word, Angelina, meaning Little Angel. The original Angelina was a Hanai Indian girl. She was among the first to be converted to Christianity by the early Spanish priests. She was said to be a great help to the early missionaries. The Sabine National Forest with 183,800 acres was named for the Sabine River. The Sabine River in turn acquired its name from a Spanish word meaning "Cypress." The name is quite appropriate due to the quantity of Cypress that grows along the banks of the Sabine. The Sam Houston National Forest with 158,200 acres was named, of course, for General Sam Houston an adopted member of the Cherokee Indian tribe, Congressman and Governor of Tennessee, signer of the Texas Declaration of Independence, Commander-in-Chief of the Texas Army, and twice President of the Republic of Texas. The Davy Crockett National Forest, 161,600 acres, was named for another great Tennessean and the hero of the Alamo. Together the four National Forests total 658,000 acres. This is 5.6% of the commercial timber land contained in 38 East Texas Counties. The National Forests in Texas, in common with the other National Forests in the South, have gone through two distinct phases of growth. The first of these was a custodial phase in which the primary emphasis was on the protection of the forests. This phase lasted approximately until the end of World War II. The second phase is a management phase in which the emphasis is on an ever increasing intensification of the management of the forest and all of its resources.

When the lands of the National Forests were acquired, many of them were poorly stocked with worthless or low quality trees. The first objective of timber management was to increase both the quantity and quality of the timber. This was accomplished by means of a Four-Point Program. The first and primary point was the protection of the forest from wildfire. The second was to cut only trees that were dead, dying, diseased, poor-risk, low quality or crowding better trees. The third point was to reforest any areas that did not have the desired number or species of trees present. The fourth point was to remove or deaden any worthless trees that were interfering with the growth of more desirable ones.

1937 was the first year of timber cutting on the National Forests in Texas. 4 million board feet of timber, worth \$26,605, were removed from the National Forests. The rapid growth of the young forest in succeeding years has permitted a gradual increase in cut. In 1963 the cut was 83 million board feet with a value of \$1,579,085. The cut quota for Fiscal Year 1964 has been established at 100 million board feet. It is expected that the cut will increase about 50% in the future.

The reforestation of the National Forests resulted in planting of more than 35,000 acres with pine seedlings between the years 1936 and 1940. From 1941 to 1956 very little reforestation was done. But beginning in 1957 increased emphasis has been placed on this program. A recent development in reforestation is the search for superior trees. The purpose of this program is to locate and develop superior trees to provide seed for use in growing higher quality trees. Over 50 such trees have been found to date, and work is under way to set up a system of getting large supplies of superior seed.

The timber stand improvement work of the early days is still continuing. Techniques have changed greatly. The early work was done by girdling or by cutting down the worthless trees to release overtopped valuable species. Later, girdling was combined with the

use of herbicide to increase its effectiveness. More recent work has featured the use of herbicides in specially designed tools called injectors and in mist blowers. Current plans contemplate the use of large machinery such as the Marden chopper to completely remove undesirable species from areas being regenerated.

One of the biggest changes to come to the National Forests over the period of years has been the increase in use of the forest for recreation. The initial entry of the National Forests in Texas in the recreation field began with the construction of Boykin Springs Recreation Area.

Records indicate that in 1946 about 71,000 people used the National Forests for recreation purposes. The recreation report for calendar years 1963 showed that more than 892,000 people came to the National Forests that year. There were more than 90,000 campers. Visitors from more than 30 different states, including Alaska and Hawaii and 10 foreign countries registered at one recreation area on the Davy Crockett National Forest.

The original area at Boykin Springs has grown into an entire system of recreation areas. There are more than a dozen of these existing at the present time. Two new ones are in the final stages of completion on the Sam Rayburn Reservoir. More than 20 additional recreation areas are planned for this lake. Tentative sites have been selected and plans are being prepared for additional recreation sites to be constructed on the Toledo Bend Reservoir. In all likelihood some of these will be complete before the lake is filled.

The National Forests are not managed for timber and recreation alone, however. One of the principal reasons for the establishment of the National Forests under the Weeks Law is for the protection of the watershed. Clean, silt-free water is one of the most important products of the National Forest land. Road bank stabilization and gully control work help to keep the quality of water high.

The National Forests cooperate with the State Parks and Wildlife Department to produce game and fish for hunting and fishing. In this system of cooperation the State Parks and Wildlife Department establishes the game laws, determines the season of hunting and bag limits, and enforces the game laws. The National Forests through coordination of their activities provides a suitable habitat for game and fish. The resources of the National Forests are intentionally managed to keep this habitat in optimum condition compatible with the requirements of other uses.

The fifth major resource of the National Forests is the production of forage for the grazing of cattle. The National Forests in Texas are presently intensifying their management of this resource. Range conservationists have recently completed capability studies to determine how much grazing the forest will support without damage to the other resources. This data is now being incorporated into a management plan for range work.

The techniques for the management of the five major resources of the National Forests-timber, recreation, water, wildlife and forage-are scientifically blended and coordinated to produce as many different uses as possible from all of the lands of the National Forests in Texas. This is called Multiple-Use Management. In the beginning of the National Forests the Secretary of Agriculture directed the first Chief of the Forest Service to decide questions of management of the National Forests on the ground on the basis of the - "Greatest Good of the Greatest Number of People in the Long Run." Multiple-Use Management does just this.

Greater demands will be made of the National Forests in the future. New products from timber manufacture, new techniques of manufacturing, and an increasing population will require more wood in the future than in the past. Greater numbers of people, shorter working hours, more leisure time and more income to spend will double and triple the number of people seeking recreation on the National Forests. The demands for industrial, domestic and recreational water will continue to increase. Long-range plans are being prepared by the Supervisor of the National Forests in Texas to meet these demands through Multiple-Use. These plans will keep the National Forests in Texas "The Land of Many Uses."

RESEARCH COMPLEMENTS EDUCATION AT STEPHEN F. AUSTIN STATE COLLEGE

By

Lowell K. Halls and John J. Stransky¹

There is a close link between forestry education and research at Stephen F. Austin State College. The Southern Forest Experiment Station's scientists actively participate in research with the college faculty, act as consultants, and as occasional class lecturers. Likewise, the faculty assists and advises the Forest Service researchers in their work. Students benefit from this close relationship. Their perspective and understanding of forestry is widened through instruction and association with the research specialists, by having access to study installations, and by observing research in progress. They often help to collect and analyze research data that they may later apply to forestry practice.

Faculty and students frequently visit the 2,500-acre Stephen F. Austin and 1,200-acre Kurth Experimental Forests near Nacogdoches, and the 2,200-acre San Jacinto Forest 10 miles southeast of Huntsville. The land that is now the Stephen F. Austin Experimental Forest was transferred to the Forest Service through the efforts of Dr. Paul L. Boynton, then President of the College, for cooperative research by act of Congress in 1944. This is the only instance in which Congress has set aside a forest area with specific provision for cooperation with a college or other institution.

The E. L. Kurth Experimental Forest is leased through the cooperation of the Angelina County Lumber Company. The San Jacinto Experimental Forest is part of the Sam Houston National Forest.

What Research Has Shown

From 1945 through 1961, research at Nacogdoches was mainly on the timber-growing aspects of forestry and on the insects that attack pine trees. Early research including surveys of forest resources and land ownership and use identified the area's chief research needs in forest management. Long-term studies on the San Jacinto and Kurth Experimental Forests tested the effects of various cutting methods on pine regeneration and growth. On the Stephen F. Austin Experimental Forest, a "farm forestry forty" illustrating good cutting practices has been under management since 1948.

Studies were conducted to learn about pine seed production and dispersal, and how to reduce losses of seeds and seedlings. The length of time that young pines can endure drought in east Texas soils and the amount of water they need for growth were determined in field and greenhouse tests. Nursery experiments showed how fertilizer, type of soil, irrigation, and other factors affect seedling development.

Various ways to plant pines were tried. Site preparation was usually a part of the planting tests, because experience indicated that seedlings won't survive in dry seasons unless competing vegetation is eliminated. Machines, chemicals, and prescribed burning were tested as means of controlling the unwanted vegetation.

Other studies showed that site preparation improves germination and seedling survival of direct seeded pines. But in drought-prone East Texas direct seeding is still risky.

During the 1951 outbreak of the southern pine beetle in the Big Thicket, researchers found that an oil solution of benzene hexachloride was effective in killing the insects in

1. Range Conservationist and Research Forester, Wildlife Habitat and Silviculture Laboratory, Southern Forest Experiment Station, U. S. Department of Agriculture. The Laboratory is maintained in cooperation with Stephen F. Austin State College.

infested trees. In 1954, after the southern pine beetle was no longer active, research emphasized other bark beetles, the pine tip moth, and weevils that damage seedlings. Published results have provided guides to chemical control of the black turpentine beetle, and to reduction of weevil damage through delayed planting of cutover land or by dipping planting stock in chemicals.

With the reappearance of the southern pine beetle in the Big Thicket in 1957, research was again directed to this serious pest. Since then much has been learned concerning the life history and seasonal behavior of the beetle, and on some of its predators.

What's Ahead?

As part of a nationwide reorganization of Forest Service research, all activities of the Southern Forest Experiment Station were grouped into specialized projects in 1962. Two projects were assigned to Nacogdoches, one in forest wildlife habitat and the other in timber management research.

Nacogdoches is now the major installation and headquarters for all of the Southern Station's wildlife habitat research.

Its purpose is to find how best to grow food and cover for deer, squirrel, turkey, and quail. Both the animals and their food plants are studied, with the emphasis on plants.

Regional inventories will show what browse species are most abundant under several timber types and stand conditions. New ways of measuring plants, now being tested, will make it easier to sample forage yields, to tell how much forage is being eaten, and to find whether main forage species are increasing or decreasing.

To simplify plant identification, illustrated bulletins will be prepared. One describing important deer browse plants is now available. Others that feature forbs and tell of their role as wildlife food are forthcoming.

Data are being collected to indicate which plants and plant parts are most nutritious. This information will be useful in selecting species to be favored in the habitat, and in providing game with an adequate year-round diet. It will also help explain why some ranges grow more and bigger game than others.

Some ranges, for one reason or another, lack good game food. Efforts are being made to find desirable plants and grow them on sites where forage is scarce. Thus, areas that now have no game may provide good hunting in the future.

Other investigations are showing how the amount of forage is influenced by the number and size of overstory trees. Such information is useful to predict what will happen to the forage as timber stands develop or as trees are harvested.

A frequent question is, "How much game can a range continuously support?" To help answer this question, two large enclosures have been completed in Louisiana and Arkansas and stocked with known numbers of deer, and two 153-acre pens are being built at the Stephen F. Austin Experimental Forest. Observation of the plants and deer in these pens will show which plants the deer like best, how important mast and other fruits are in the diet, what are the relations between food supply and the condition and size of deer, and how to tell whether there are too few or too many deer under existing habitat conditions.

Timber management research objectives are to learn how to grow and reproduce pines in the dry western edge of the southern pine belt. Under way are studies that show how soil moisture is related to seasonal and annual rainfall. Weather data are now being analyzed to determine the frequency and duration of droughts and how they affect pine seedling survival.

The ways in which soil texture, density, and moisture-holding capacity affect seedling survival will also be investigated. It has always been difficult to get good survival on deep sands, gravelly soils, and clays—soils that either have a very low or very high water-holding capacity. Large acreages in east Texas fall in these categories. The forestry picture would be much brighter if these soils could be successfully planted or seeded to pines.

Young pines in east Texas rarely get a good start in life unless they are freed from competing vegetation. Some studies will show how much of the total moisture is used by competing vegetation and at what minimum level of soil moisture the pine seedlings die. The aim is to learn what method and intensity of site preparation will insure seedling survival. Costs and risks will be evaluated. A large investment in site preparation may well be warranted, considering the high chance of repeated failures without it.

Efforts will be made to extend pine plantings into the western pine-fringe zone. Although this area is less productive than the "piney woods" proper, the forests are still valuable to the region's economy.

The "farm forest" will be maintained with help from the college. It will be managed so as to demonstrate the amount and kind of products that can be grown on East Texas pinelands.

Through continued cooperation with the college, sharing knowledge, laboratory facilities, and experimental forests, modern and useful research progresses for fact finding and learning. Thus education and research move forward together.

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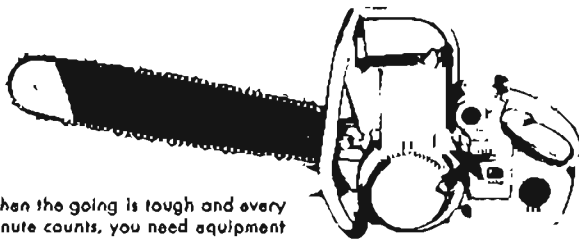
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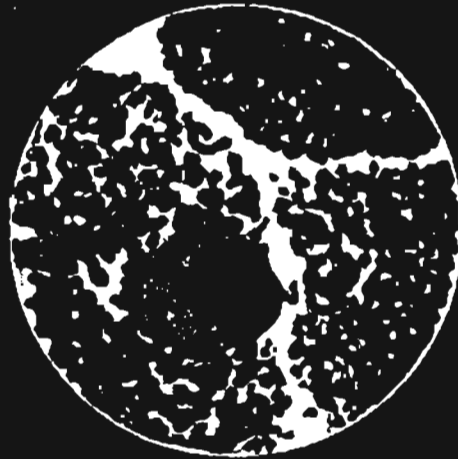
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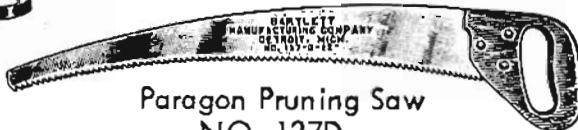
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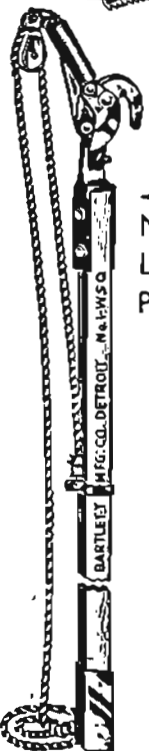
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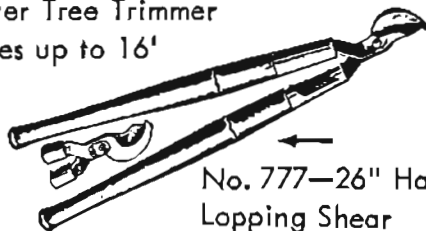


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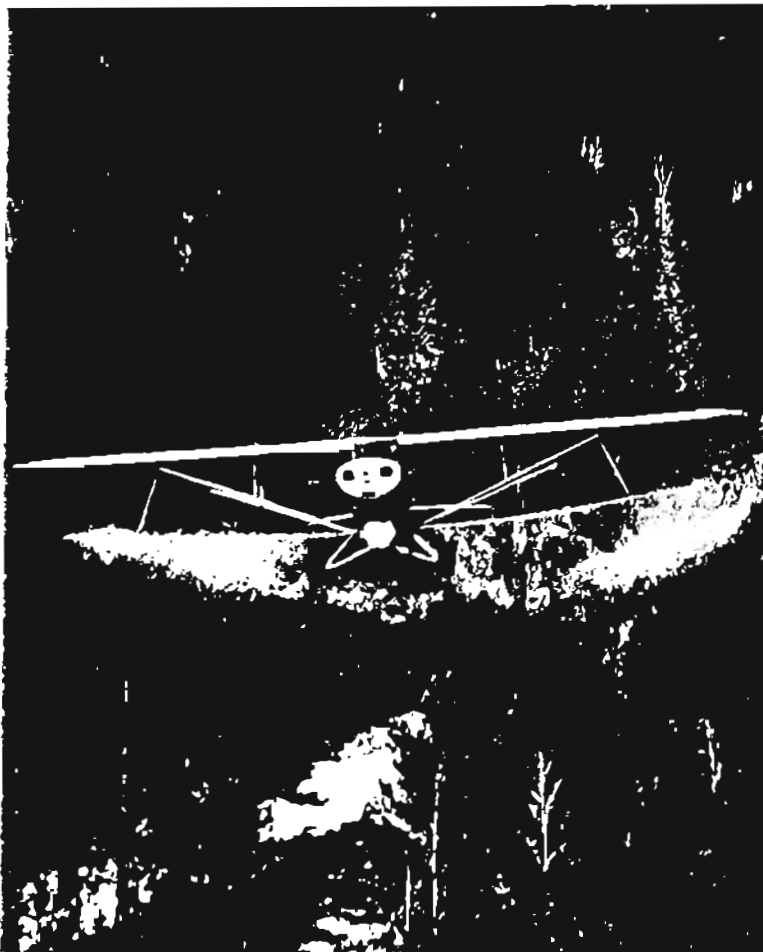
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