

GFA | 2026 ANNUAL
CONFERENCE

July 24-26, 2026
Jekyll Island, GA

**MADE IN AMERICA
GROWN IN GEORGIA**

TITLE SPONSOR



FARM CREDIT
ASSOCIATIONS OF GEORGIA



Forest Management, Wildlife & Workforce Development



William Moore Ph.D

Department Head, Forest Resources
ABAC School of Agriculture and Natural
Resources

ABRAHAM BALDWIN AGRICULTURAL COLLEGE (ABAC)

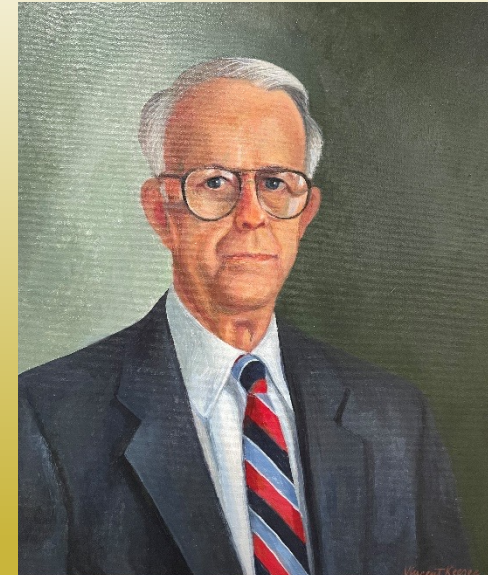
FORESTRY EDUCATION AND WORKFORCE DEVELOPMENT— BALANCING TRADITION AND INNOVATION



ABRAHAM BALDWIN
AGRICULTURAL COLLEGE

HISTORY OF FORESTRY EDUCATION AT ABAC

- **FOREST TECHNOLOGY PROGRAM (AAS) STARTED BY VERNON YOW IN 1954**
- **FOREST TECHNOLOGY PROGRAM RECEIVED SAF RECOGNITION IN 1987**
- **FOREST TECHNOLOGY PROGRAM RECEIVED SAF ACCREDITATION IN 2009**
- **BACHELOR OF APPLIED SCIENCE (BAS) IN NATURAL RESOURCE MANAGEMENT (FORESTRY AND WILDLIFE MANAGEMENT TRACKS) LAUNCHED IN 2011**
- **BAS IN NATURAL RESOURCE MANAGEMENT (FORESTRY TRACK) RECEIVES CANDIDATE STATUS FOR SAF ACCREDITATION (2015)**
- **BAS IN NATURAL RESOURCE MANAGEMENT (FORESTRY TRACK) CHANGED TO A BACHELOR OF SCIENCE (BS)**
- **BS IN NATURAL RESOURCE MANAGEMENT (FORESTRY TRACK) RECEIVES SAF ACCREDITATION (2020 and 2025)**



Highlights of the Forestry Program

Management-oriented Curriculum with Extensive Field Labs and Field Trips

Small Class Sizes with a Heavy Focus on Experiential (Hands-on) Learning

Field Labs Taught by Experienced Faculty

More Major-related Hours (78) than other Forestry Programs



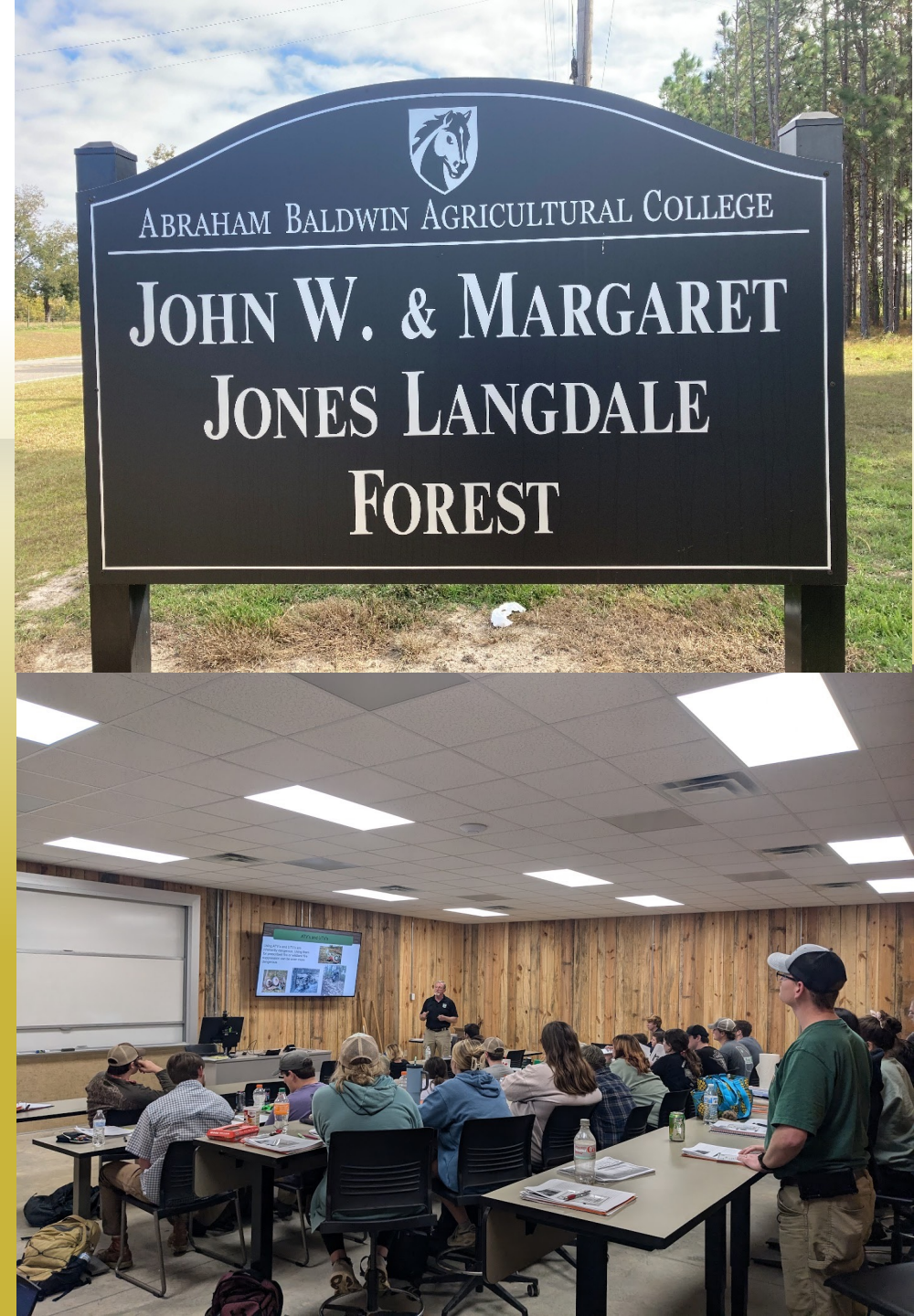
Highlights of the Forestry Program

Constantly Updating Technology-related Skills and Knowledge

Outstanding Value (Annual Tuition and Fees of \$3904) – Neighbor Waiver

100% Job Placement within 2 Months of Graduation

The John W. and Margaret Jones Langdale Forest - extremely close to campus (8 miles)

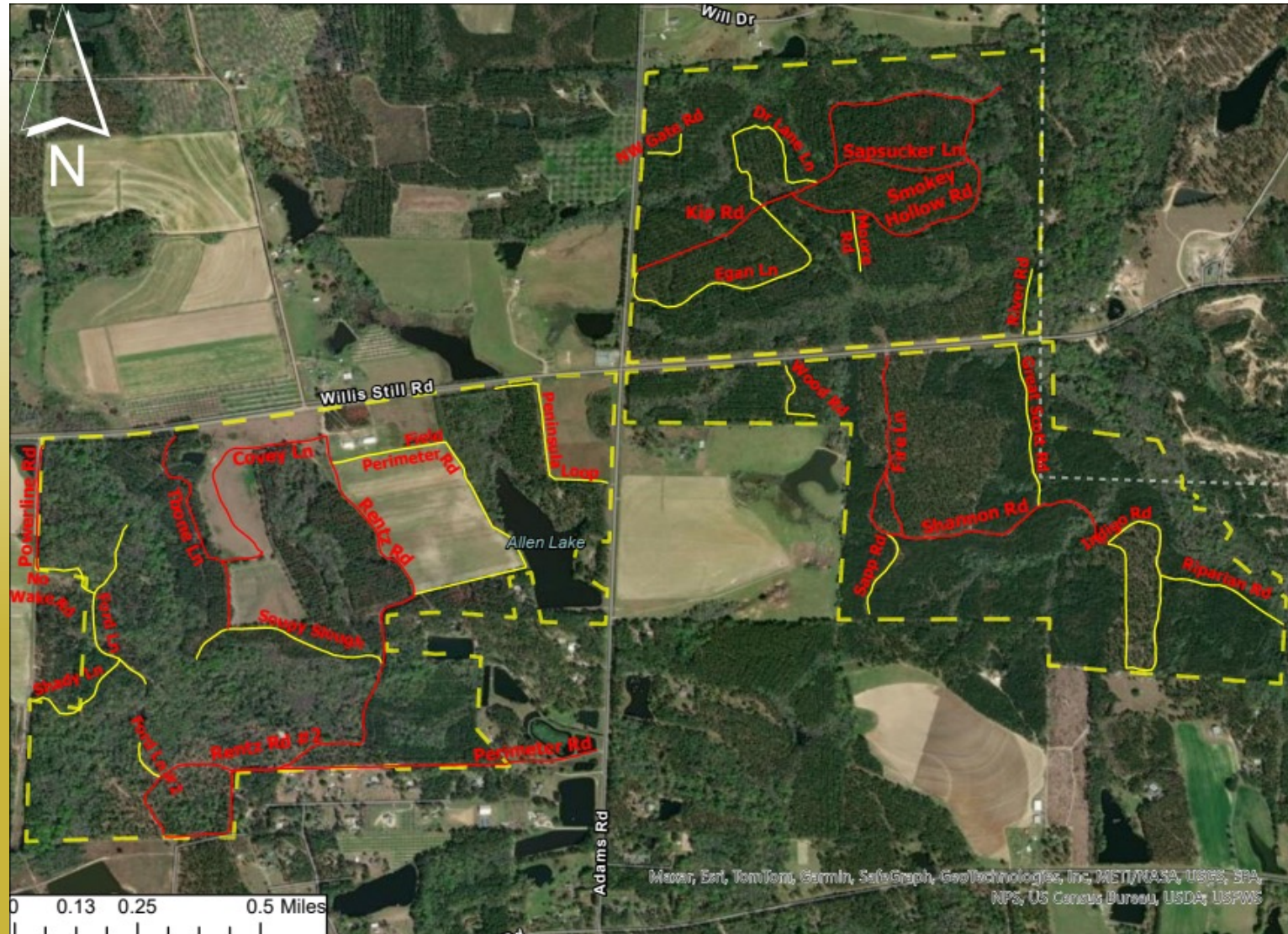


JOHN W. AND MARGARET JONES LANGDALE FOREST

- **PROPERTY PURCHASED BY THE ABAC FOUNDATION IN 2018**
- **LANGDALE FOREST STEWARDSHIP COMMITTEE ESTABLISHED IN 2019**
- **GRANT RENTZ HIRED AS FOREST MANAGER IN 2021**
- **CLASSROOM/LAB AND SHOP FACILITIES CONSTRUCTED IN 2022**
- **DEDICATED AS THE JOHN W. AND MARGARET JONES LANGDALE FOREST IN 2022**



John W. and Margaret Jones Langdale Forest (944 AC)



EVOLUTION AND DESIGN OF THE NRM- FORESTRY TRACK CURRICULUM

- **Senior Project Capstone Course – the end goal**
- **Students create a thorough written management plan and present it to the stakeholders, faculty, and students**
- **Allows students to demonstrate field skills, GIS abilities, silvicultural knowledge, financial understanding, and communication skills.**
- **Communication Across the Curriculum**

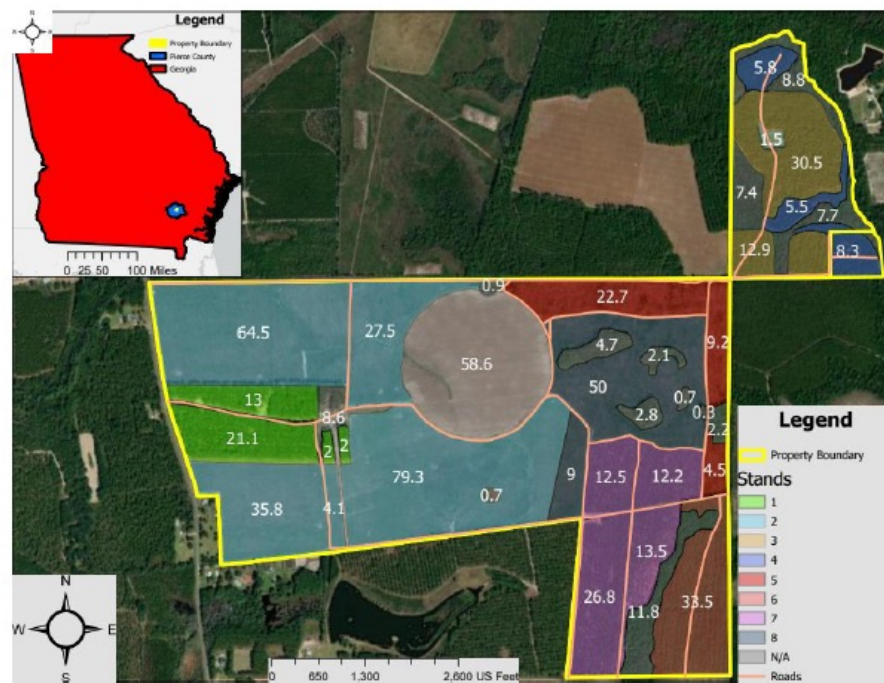


Figure 1. Thompson-McNeal property outline showing roads, stand delineation, and acreage per stand. The inset map shows the location of Pierce County in the state of Georgia as well as the location of the property in Pierce County.

Appendix A3. Cruise map for stand 2.

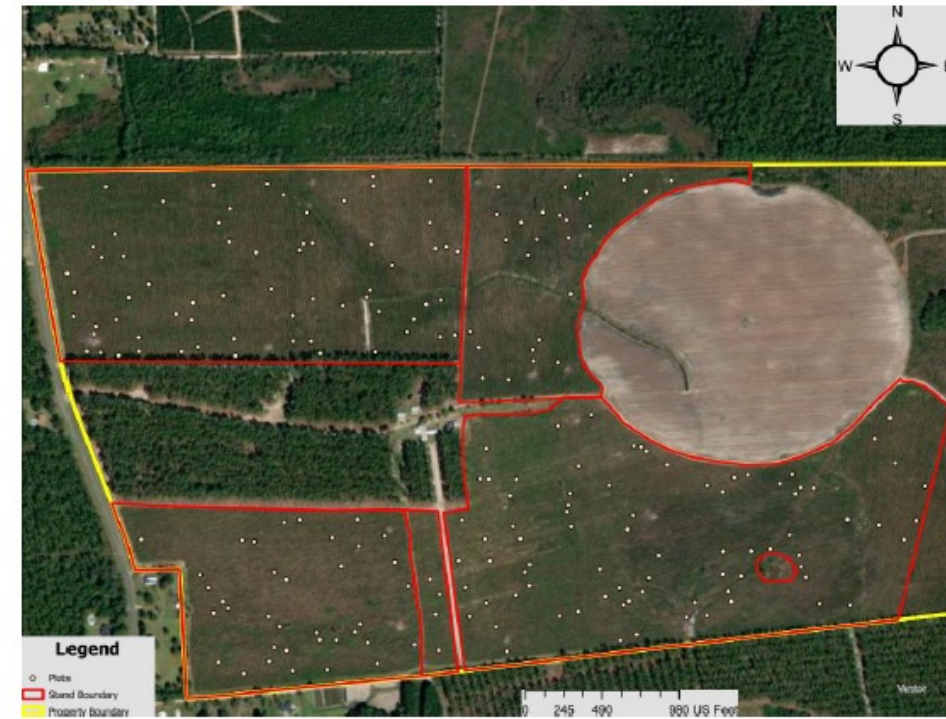


Table 2. Stand and Stock Table of stand 1 in its current condition on a per acre basis. Basal Area is described as ft^2 per acre. Units for product classes are tons/per acre.

DBH Class	Trees per Acre	Basal Area	Pulpwood	Small Sawtimber	Large Sawtimber	Large Poles	Topwood	Total
8	5	1.9	0.6	0.8	0.0	0.0	0.1	1.5
10	8	4.5	1.9	1.8	0.0	0.0	0.1	3.8
11	8	5.2	2.9	1.7	0.0	0.0	0.1	4.6
12	9	7.2	2.5	2.6	0.0	1.2	0.4	6.8
13	10	9.6	5.4	0.0	3.4	0.0	0.7	9.4
14	13	14.3	5.8	0.0	7.0	0.4	1.1	14.4
15	8	9.2	4.3	0.0	4.9	0.0	0.5	9.7
16	18	25.0	7.5	0.0	13.1	4.4	1.5	26.5
17	4	6.6	2.9	0.0	4.2	0.0	0.3	7.4
18	3	5.2	2.4	0.0	3.0	0.0	0.2	5.6
19	0	0.8	0.0	0.0	0.9	0.0	0.0	1.0
20	2	3.6	2.1	0.0	2.1	0.0	0.1	4.2
Totals	89	93.1	38.3	6.8	38.5	6.0	5.1	94.8

Quadratic Mean Diameter = 13.8"

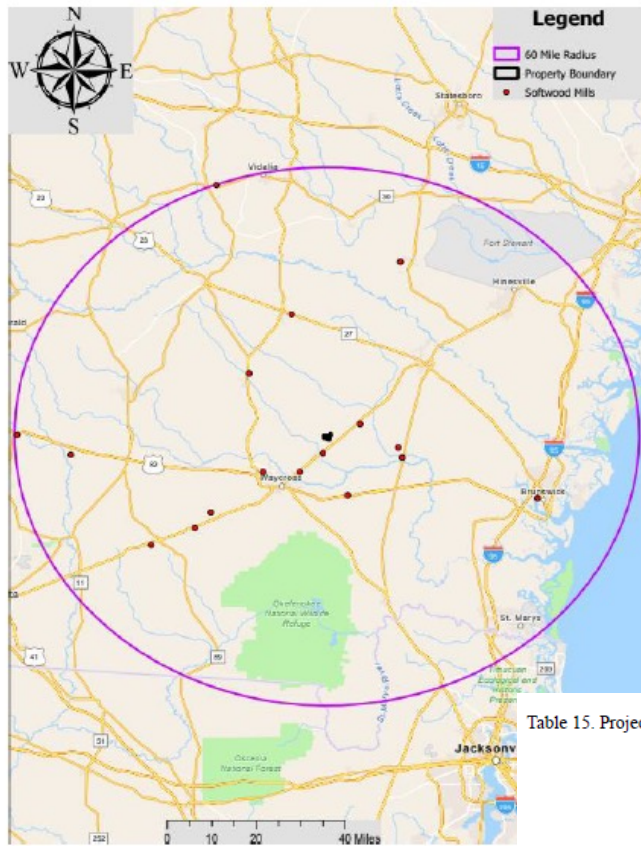


Figure 3. Map of mill locations within a 60-mile radius of the Thompson

Table 20. Recommended activity schedule and projected costs and revenues on a yearly basis over a 10-year span.

Year	Activity	Stands	Revenue	Cost
2026	Final Harvest	1	\$60,045.60	
	Pinestraw Lease	4,5,7	\$18,150.00	
	Agriculture Lease	Field	\$12,020.00	
2027	Site Preparation	1		\$23,209.00
	Pinestraw Lease	4,5,7	\$18,150.00	
	Agriculture Lease	Field	\$12,020.00	
2028	Pinestraw Lease	2,4,5,7	\$49,830.00	
	Agriculture Lease	Field	\$12,020.00	
2029	Pinestraw Lease	2,4,5,7	\$49,830.00	
	Agriculture Lease	Field	\$12,020.00	
2030	Pinestraw Lease	2,4,5,7	\$49,830.00	
	Agriculture Lease	Field	\$12,020.00	
2031	Pinestraw Lease	2,4,5,7	\$49,830.00	
	Agriculture Lease	Field	\$12,020.00	
2032	Final Harvest	3	\$163,357.32	
	Pinestraw Lease	2,4,5,7	\$49,830.00	
	Agriculture Lease	Field	\$12,020.00	
2033	Site Preparation	3		\$30,862.17
	Final Harvest	6	\$114,950.75	
	Pinestraw Lease	2,4,5,7	\$49,830.00	
	Agriculture Lease	Field	\$12,020.00	
2034	Thinning Operation	4	\$13,304.90	
	Site Preparation	6		\$20,406.86
	Pinestraw Lease	2,5,7	\$46,890.00	
	Agriculture Lease	Field	\$12,020.00	
	Thinning Operation	7	\$38,857.90	
	Pinestraw Lease	1,2,5	\$42,855.00	
	Agriculture Lease	Field	\$12,020.00	
	Pinestraw Lease	1,2,5	\$42,855.00	
	Agriculture Lease	Field	\$12,020.00	

Table 15. Projected cash flow diagram for the newly established stand in 2034.

Year	Age	Activity	Revenue	Cost
2034	0	Site Prep & Planting	\$0.00	\$20,406.86
2035	1			
2036	2			
2037	3			
2038	4			
2039	5			
2040	6			
2041	7			
2042	8	Pinestraw Lease	\$5,025.00	\$0.00
2043	9	Pinestraw Lease	\$5,025.00	\$0.00
2044	10	Pinestraw Lease	\$5,025.00	\$0.00
2045	11	Pinestraw Lease	\$5,025.00	\$0.00
2046	12	Pinestraw Lease	\$5,025.00	\$0.00
2047	13	Pinestraw Lease	\$5,025.00	\$0.00
2048	14	Pinestraw Lease	\$5,025.00	\$0.00
2049	15	Thin	\$17,921.50	\$0.00
2050	16			
2051	17			
2052	18			
2053	19			
2054	20			
2055	21			
2056	22			
2057	23			
2058	24			
2059	25	Clearcut	\$94,781.80	\$0.00

EVOLUTION AND DESIGN OF THE NRM-FORESTRY TRACK CURRICULUM

Introductory Major Courses

- FRSC 3070 Dendrology
- FRSC 2200 Soils in Forest Resources
- FRSC 2500 Forest Mapping and Orienteering
- FRSC 1900 Intro to Forest Measurements
- FRSC 1192 Wildlife Ecology and Management I
- FRSC 2240 Forest Safety
- **FRSC 3255 Forest Mensuration**
- **FRSC 2243 Geographic Information Systems**
- FRSC 3265 Silviculture



EVOLUTION AND DESIGN OF THE NRM-FORESTRY TRACK CURRICULUM

Junior Courses

- FRSC 3130 Endangered Species Management
- **FRSC 3900** **Regional Silviculture**
- FRSC 2900 Forest Operations
- **FRSC 3300** **Fire Ecology and Management**
- FRSC 4250 Forest Finance
- **FRSC 4265** **Advanced Silviculture**

Senior Courses

- FRSC 4910 Natural Resources Policy and Law
- FRSC 3520 Forest Hydrology and Wetlands Mgt.
- FRSC 2250 Forest Entomology and Pathology
- FRSC 4500 Forest Management Planning
- FRSC 4370 Natural Resources Recreation
- FRSC 4630 Senior Project



EVOLUTION AND DESIGN OF THE NRM-FORESTRY TRACK CURRICULUM

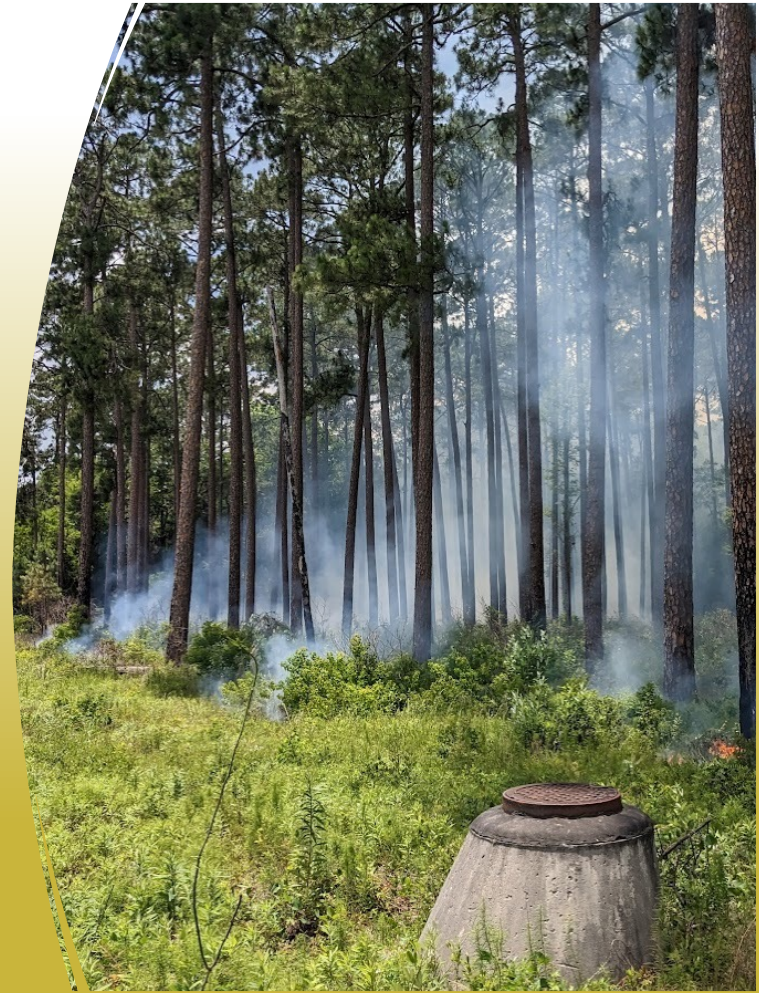
Elective Courses

- FRSC 3170 Advanced Forest Ecology
- FRSC 4590 Forestry Issues
- FRSC 4300 Urban Forestry
- FRSC 2100 Herbaceous Plant Communities
- FRSC 4790A **Forest Resources Internship**
- FRSC 4480 **UAV and Remote Sensing Applications**



CURRENT CHALLENGES FOR FORESTRY EDUCATION

- Lack of K – 12 Preparation



CURRENT CHALLENGES FOR FORESTRY EDUCATION

- Lack of K – 12 Preparation
- Reduced Social Skills, Communication Skills, and Professional Etiquette



-----Original Message-----

From: XXXXX [mailto:XXXXX@gmail.com]

Sent: Friday, July 30, 2019 9:53 AM

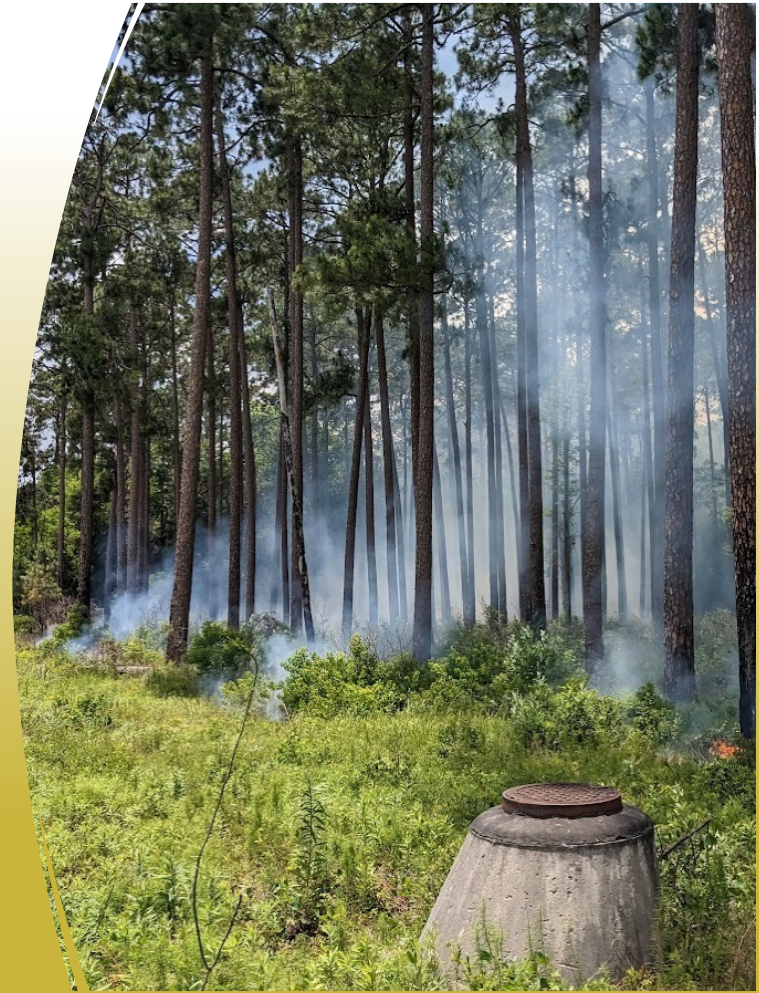
To: William Moore

Subject: Re: Syllabus for Natural Resource Conservation

Hey I would like to know how much longer do i hav at abac before i Grad.

CURRENT CHALLENGES FOR FORESTRY EDUCATION

- Lack of K – 12 Preparation
- Reduced Social Skills, Communication Skills, and Professional Etiquette
- Issues with Logic and Reasoning



- Ht. of ABAC Water Tower (ft): 50 – 1000 feet Actual: 130 feet



- Ht. of ABAC Water Tower (ft): 50 – 1000 feet Actual: 130 feet
- Ht. of Loblolly Near Yow (ft): 30 – 200 feet Actual: 73 feet



- Ht. of ABAC Water Tower (ft): 50 – 1000 feet Actual: 130 feet
- Ht. of Loblolly Near Yow (ft): 30 – 200 feet Actual: 73 feet
- Wt. of F-150 pickup (lbs): 250 – 5500 pounds Actual: ~ 4500 pounds



- Ht. of ABAC Water Tower (ft): 50 – 1000 feet Actual: 130 feet
- Ht. of Loblolly Near Yow (ft): 30 – 200 feet Actual: 73 feet
- Wt. of F-150 pickup (lbs): 500 – 4500 pounds Actual: 6500 pounds
- Yow Building to Zion Hope Road: 0.25 to 6 miles Actual: 0.3 miles



CURRENT CHALLENGES FOR FORESTRY EDUCATION

- Lack of K – 12 Preparation
- Reduced Social Skills, Communication Skills, and Professional Etiquette
- Issues with Logic and Reasoning
- Lack of Life Skills and Experience



Questions?



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