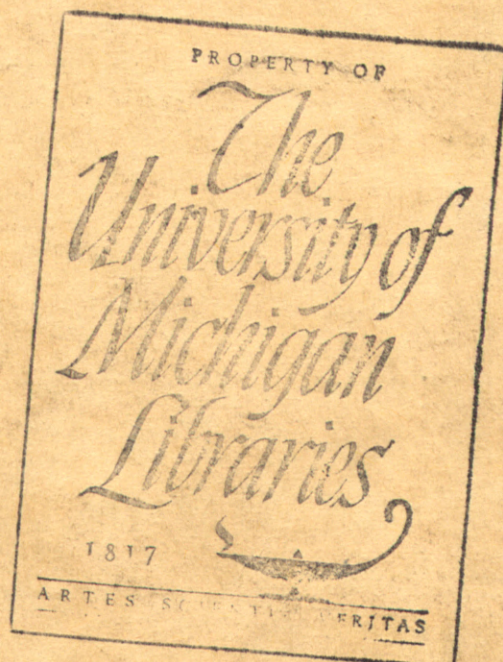


Marrero, Jose

A survey of the forest plantations in the Caribbean national forest. Data collected for Masters' thesis - 1947.

*Part  
2.*

Marrero









## NORTH MISSISSIPPI PLANTATION INVESTIGATION

PLANTATION #: 2 . COUNTY: Oktibbeha . DATE: 5/26/46  
 SOIL AREA: Slaterwoods . T,R,S,40: T12 R14 . PLANTED 1935  
 OWNER: Miss. Expt. Sta. . OCCUPATION: Research Inst.  
 ADDRESS: State College, Miss.  
 SPECIES: Slash pines . AGE: 12 . PURPOSE: Research  
 TOTAL ACRES: 1.2 . SPACING: 6' x 6' AGE OF STOCK: \_\_\_\_\_  
 PLANTED BY: \_\_\_\_\_ . PLANTING METHOD: \_\_\_\_\_  
 SEED SOURCES: \_\_\_\_\_ . STOCK SOURCE: \_\_\_\_\_  
 FORMERLY CULTIV.: X . PASTURED: \_\_\_\_\_ . OTHER: \_\_\_\_\_  
 USE IMMED. PRIOR ABAND.: \_\_\_\_\_  
 # YRS. BETW. ABANDONMENT AND PLANTING: \_\_\_\_\_  
 SITE PREPARATION: \_\_\_\_\_  
 TREATMENT: \_\_\_\_\_  
 CHARACTER AND DEGREE OF EROSION: Sheet  
 TOPOGRAPHY: LEVEL: X UNDULATING: \_\_\_\_\_ ROLLING: \_\_\_\_\_ HILLY: \_\_\_\_\_ PREC: \_\_\_\_\_  
 DAMAGE:

Agency	Degree of Damage		
	Light	Medium	Heavy
Fire : <u>Date: 1941 - Spring</u>	<u>on trees</u>		
<u>+ fall 12 fires</u>	<u>now living</u>		
Insect :			
Grazing :			
Fungi : <u>Cronartium fusiforme</u>	<u>1 dead tree</u>		
	<u>1 infected</u>		
Other :			

Replanting Data: DATE: No replanting . SPECIES: \_\_\_\_\_

# PER ACRE: \_\_\_\_\_ SOURCE: \_\_\_\_\_

PLANTING DATA: \_\_\_\_\_

REMARKS: \_\_\_\_\_



## NORTH MISSISSIPPI PLANTATION INVESTIGATION

Plantation #: 1. Date: 5/26/46. Area #: 1 of 1Acres in Area: 1.2. # Sample plots: 1. Sample Plot #: 1Species: Slash pine. Spacing: 6 X 6Replanting data: No replanting

## SITE CHARACTERISTICS

Soil Type: Lufkin clay Phase: level Catenae: \_\_\_\_\_Utility Soil Class: \_\_\_\_\_ Sur. Soil Tex.: clay loam

## Classification of subsoil properties by Code Number

gray-brown mottled

Drainage	Plasticity	Compactness	Color	Profile #	W.T.	pH	Structure
<u>slow</u>	<u>13</u>	<u>2</u>			<u>-</u>	<u>4.5</u>	<u>massive</u>

## CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet erosion class	Slope %	pH	Depth to Subsoil	Structure
<u>6 in.</u>	<u>0</u>		<u>1</u>	<u>5.0</u>	<u>6 in.</u>	<u>massive</u>

Topographical position: level to undulating terrainExposure: S.W.

## Volunteer Growth

Species (with % composition): persimmon (0%),winged elm (5%)Density: light. Origin: seed. Competition: none

% Composition adjacent forest: S. pine - L. pine (15), So. red oak,  
Post-oak (70), Hickory (11), R. maple (2), winged elm (2)

## Ground Cover

Density: very light. Character: sage pine. Indicator Plants: \_\_\_\_\_"sedge grass"

## PLANTATION TREES

Survival %: \_\_\_\_\_ Ave. Ht. Growth/yr: \_\_\_\_\_ Feet.

Ave. d.b.h.: \_\_\_\_\_ Ave. Inter. Index: \_\_\_\_\_

Remarks: Old burn (date: 1941) effects still visible (blackening)  
on tree trunks. The fire almost completely defoliated  
the trees and had a marked effect upon the  
height growth that year, it being only a few inches  
in most cases.



Plant # 2 Area 1 of 1 Sample plot #1 Slash Pine

Measurements	Mean ht. ft.	Stand Deviation	Coefficient of Variation Percent
Ave. Ht. (any 25)	26.64	$\sqrt{10.5735} = 3.25$	$\frac{3.25}{26.64} \times 100 = 12.20$
Ave. HI Dominants	27.64	$\sqrt{4.4066} = 2.098$	$\frac{2.098}{27.64} \times 100 = 7.59$
5 yr. intercept (any 25's) <sup>(a)</sup>	10.98	2.167	$\frac{2.167}{10.98} \times 100 = 19.736$
Dominants	11.35	1.93	$\frac{1.93}{11.35} \times 100 = 17.004$
5 yr. int. <sup>(b)</sup>			
(any 25's)	14.78	2.69	$\frac{2.69}{14.78} \times 100 = 18.20$
Dominants	14.96	2.587	$\frac{2.587}{14.96} \times 100 = 17.297$

\* Samples = 25

a = fire yr. considered as a separate yr.  
b = " " not " " " "



OKT 1664  
G. W. A.

2  
5/26/46  
12 years

1 of 1  
Slash Pine

4.3	26	✓ D	2.5	4.2	4.8	14.2	17.2	24.5
4.3	26	✓ D	2.7	4.0	4.8	7.0	14.2	20.0
4.4	25	✓ D	1.8	4.3	5.1	7.4	10.9	15.5
5.5	27	✓ D	3.4	6.0	6.6	8.8	13.0	16.7
5.4	30	✓ D	2.1	6.7	8.1	8.7	13.5	16.7
5.3	29	✓ D	4.0	6.4	6.4	7.3	11.3	15.0
4.7	23	✓ D	2.4	3.9	4.8	6.4	10.0	18.1
4.5	28	✓ D	2.2	4.6	5.2	8.3	10.8	14.9
3.9	26	✓ D	3.0	4.7	5.3	7.5	10.8	12.8
5.0	30	✓ D	3.0	5.0	6.7	7.3	11.2	14.0
3.6	19	✓ I	1.4	2.2	2.5	5.0	7.9	11.3
3.4	24	✓ I	2.1	3.5	4.5	6.4	9.3	15.4
2.9	18	✓ I	2.0	3.6	3.9	5.2	7.4	12.0
3.9	26	D	2.2	2.7	3.0	4.0	8.0	11.5
4.7	25	D	2.8	4.5	5.1	6.5	9.8	12.6
4.8	29	D	2.9	5.0	5.6	8.2	11.7	18.0
5.2	29	D	2.9	6.5	8.0	8.5	10.8	14.0
4.9	28	D	2.9	4.7	5.1	7.3	10.4	13.6
5.6	25	D	2.7	4.4	4.9	7.3	11.0	13.2
4.6	28	D	2.8	4.5	5.0	6.4	10.0	13.3
5.7	32	D	2.5	6.4	6.9	7.3	11.9	15.3
4.4	27	D	2.2	3.9	4.4	6.2	7.2	11.2
4.3	27	D	2.3	4.5	6.0	6.6	9.5	12.5
4.8	27	D	2.9	5.7	8.3	8.5	10.8	15.4
5.5	30	D	2.8	5.3	6.9	10.6	13.9	17.0

Remark: No fire considered

		1	2	3	4	5	6	
A -	5.7	30	2.6	5.1	7.3	7.9	10.1	12.8 D
B -	5.3	27	2.4	5.5	6.9	10.3	13.1	16.5 D
C -	5.1	29	2.7	4.8	6.5	7.1	10.9	13.8 D

No substitute for  
3" T/pas in regular  
sample.





# Loblolly Pine

## North Miss. Plant Survey

Plantation #3

Acre #1

Sample Plot #1

Total Height Any 25's Mean		Stand Dev.	Coefficient of Variation Percent
(a)	30.96	5.66	18.28 %
(b) Dominants 33.0		2.41	7.303 %
5 Yr. Intercepts Any 25's mean		Stand Dev.	Coefficient of Variation
(a)	16.94	2.467	14.56 %
(b) Dominants 17.06		1.91	11.20 %

\*Samples = 25



## NORTH MISSISSIPPI PLANTATION INVESTIGATION

PLANTATION #: 3 . COUNTY: OKTibbaha . DATE: 6/4/46  
 SOIL AREA: Flatwoods . T,R,S,40: NE 1/4 SW 1/4 T2N R14E S6 . PLANTED 1925  
 OWNER: Miss. State Expt. Sta. . OCCUPATION: Research Institution  
 ADDRESS: State College, Miss.  
 SPECIES: Loblolly Pine . AGE: 12 . PURPOSE: Research  
Not destroyed by burn  
 TOTAL ACRES: 1.6 . SPACING: 6 x 6 AGE OF STOCK: \_\_\_\_\_  
 PLANTED BY: Miss. Agri. Expt. Sta. . PLANTING METHOD: \_\_\_\_\_  
 SEED SOURCES: \_\_\_\_\_ . STOCK SOURCE: \_\_\_\_\_  
 FORMERLY CULTIV.: X . PASTURED: \_\_\_\_\_ . OTHER: \_\_\_\_\_  
 USE IMMED. PRIOR ABAND.: \_\_\_\_\_  
 # YRS. BETW. ABANDONMENT AND PLANTING: \_\_\_\_\_  
 SITE PREPARATION: \_\_\_\_\_  
 TREATMENT: \_\_\_\_\_  
 CHARACTER AND DEGREE OF EROSION: Old sheet  
 TOPOGRAPHY: LEVEL: \_\_\_\_\_ UNDULATING: X ROLLING: \_\_\_\_\_ HILLY: \_\_\_\_\_ PREC: \_\_\_\_\_  
 DAMAGE:

Agency	Degree of Damage		
	Light <input checked="" type="checkbox"/>	Medium	Heavy
Fire : <u>Date of fires 1940-1941</u>	<u>Lower than</u>		
Insect : <u>Tip-moth damage early</u>	<u>slow hatching</u>		<input checked="" type="checkbox"/>
Grazing :			
Fungi : <u>G. fusiforme</u>		<u>X</u>	
Other :			

Replanting Data: DATE: No replanting . SPECIES: \_\_\_\_\_

# PER ACRE: \_\_\_\_\_ SOURCE: \_\_\_\_\_

PLANTING DATA: \_\_\_\_\_

REMARKS: Crowns have been closed 2-3 years

NORTH MISSISSIPPI PLANTATION INVESTIGATION

Plantation #: 3. Date: 6-4-46. Area #: 1 of 1  
 Acres in Area: 1.6. # Sample plots: 1. Sample Plot #: 1  
 Species: Loblolly pine. Spacing: 6 x 6  
 Replanting data: No replanting

SITE CHARACTERISTICS

Soil Type: Lufkin Clay Phase: \_\_\_\_\_ Catenae: \_\_\_\_\_  
 Utility Soil Class: \_\_\_\_\_ Sur. Soil Tex.: clay loam

## Classification of subsoil properties by Code Number

Drainage	Plasticity	Compactness	Color	Profile #	W.T.	pH	Structure
<u>Very slow</u>							

## CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet erosion class	Slope %	pH	Depth to Subsoil	Structure
			<u>1</u>			

Topographical position: Almost level "crayfish" flatwoods

Exposure: S.E. practically none

## Volunteer Growth

Species (with % composition): Per simmon (100%)

Density: light. Origin: seed. Competition: None

% Composition adjacent forest: Loblolly pine (15), So. Red Oak (5),  
Past Oak (60), Hickory (5), Winged Elm (5)

Ground Cover

Density: None. Character: Only pine needle mat. Indicator Plants: \_\_\_\_\_

PLANTATION TREES

Survival %: \_\_\_\_\_ Ave. Ht. Growth/yr: \_\_\_\_\_ Feet.

Ave. d.b.h.: \_\_\_\_\_ Ave. Inter. Index: \_\_\_\_\_

Remarks: Needle mat approximately 2" thick



OK 666 ha  
G.W. A.

3  
6/4/46  
11 years

1  
Loblolly pine

6.5	35
3.2	30
6.3	36
3.8	27
3.2	20
4.5	28
5.5	37
4.2	30
4.9	31
5.0	32
4.8	34
6.0	36
4.6	35
5.2	36
4.8	32
4.5	30
4.1	29
5.4	36
5.3	35
5.2	36
3.7	24
5.0	32
4.6	32
4.2	31
1.7	13

D	2.8	6.9	10.7	14.1	18.1
D	3.5	7.5	9.9	14.0	18.5
D	3.4	8.4	12.3	17.7	21.6
H	2.7	7.4	11.2	15.1	19.9
I	2.7	7.0	8.6	11.9	14.8
D	2.5	4.9	7.0	11.7	16.0
D	2.0	4.0	9.6	14.3	18.7
D	2.6	7.5	6.7	11.1	17.0
D	1.8	3.1	9.0	12.0	16.2
D	3.5	7.0	11.2	15.5	20.2
D	2.9	7.0	12.3	16.2	20.6
D	2.6	4.9	8.6	12.7	17.1
D	1.8	2.2	7.2	13.3	17.4
D	2.1	4.1	8.2	13.4	18.8
D	1.7	3.6	7.6	11.0	16.0
D	2.1	3.6	7.9	13.0	16.2
D	3.2	6.9	7.5	14.7	16.3
D	2.4	3.7	7.3	12.2	16.2
D	2.0	3.6	6.5	12.1	16.3
D	2.0	5.5	8.2	12.6	17.0
T	1.8	2.4	5.5	8.8	15.9
D	1.6	3.0	7.0	10.9	17.9
D	1.5	2.8	5.8	10.2	15.3
D	1.8	5.8	10.7	14.6	17.1
S	2.4	5.2	6.6	8.0	7.9

Extrts for non-dominants

A	6.8	32
B	5.8	32
C	5.2	31
D	6.2	33
E	4.7	32
F	5.0	31

D	1.8	4.1	8.7	11.5	16.8
D	2.3	3.3	7.9	12.6	16.8
D	1.9	2.4	5.9	9.5	13.0
D	2.0	3.7	7.6	11.9	15.0
D	1.9	2.8	6.9	11.5	15.8
D	2.3	3.8	9.2	11.9	17.0

Loblolly under suppressed condition in mixed pine-wood type, Miss. S.E.S. Experimental forest, Oktibbeha Co. Miss.

Oktibbeha

8-22-46

Loblolly pine

V.M. & G.W.A.

Natural growth intercept med.s.

Note: These trees under various degrees of suppression but of approx. maturely same age.

2.4	21.7		Suppressed	4.5	4.2	6.9	10.0	12.9	
2.4	22.7		"	2.4	5.1	7.8	11.4	13.6	
2.0	18.7		"	1.7	3.5	5.4	7.6	8.7	
3.1	24		"	3.2	5.1	8.1	9.9	13.0	
2.7	28		"	3.7	8.6	12.4	16.5	17.1	
2.6	18		"	4.9	4.5	6.4	8.3	10.4	
3.3	22		"	2.3	5.9	7.2	8.7	9.9	
2.0	21		"	2.2	5.8	7.9	10.0	16.8	
2.4	22		"	2.2	4.0	6.0	8.3	10.0	
4.2	30		"	1.8	3.1	5.7	8.6	10.7	.009
3.8	30		"	1.3	3.9	5.7	8.3	10.8	.009
2.5	19		"	1.3	3.3	4.4	6.4	8.2	
2.6	19		"	1.3	2.7	3.7	5.0	6.8	
3.3	24		"	2.5	4.6	7.2	9.9	12.5	
2.9	27		"	3.3	4.9	7.4	9.6	11.2	
2.9	26		"	2.2	5.5	7.3	9.3	12.6	12 more intercepts
4.1	34		"	2.2	4.0	6.0	10.1	12.7	.009
3.4	23		"	1.6	2.8	5.0	7.1	10.1	
3.5	24		"	2.4	4.9	6.8	9.3	11.0	
2.8	24		"	1.2	3.0	5.4	7.3	8.7	
3.2	26		"	1.7	4.4	6.3	8.1	9.8	7 more intercepts
2.7	24		"	1.9	4.8	6.9	8.3	9.7	
3.2	26		"	1.7	3.0	4.5	7.1	9.9	
3.8	32		"	2.4	5.8	8.6	11.0	14.0	.009
2.9	25		"	1.3	4.1	6.3	8.3	9.9	

12 more intercepts  
.009

7 more intercepts

.009

.03

Many of these trees were more greatly suppressed after the period of the 5 year intercept.

Range in age from 15-18 years.

Lutkin  
C/14  
L. 14m



I - Trees not shaded - growing in open.

OKtibbeh

J.M. + G.W.A.

8/23/46

Loblolly

Loblolly  
Naturally  
seeded in  
clearing  
butkinchy  
loam.

4.4	42
6.0	36
6.6	35
6.7	47
6.0	42
6.1	46
9.6	52
7.1	42
6.2	43
7.3	55
6.1	43
6.4	45
7.5	49
8.3	49
6.2	43
6.3	49
6.3	41
5.8	45
5.9	45
7.3	45
7.2	50
6.5	49
7.2	44
7.2	43
7.6	45

D	1.8	7.1	12.1	15.0	18.5	.0140
D	3.6	8.9	12.5	15.2	18.5	.0341
D	3.4	6.9	10.0	13.2	16.6	.0474
D	9.6	6.0	9.6	12.2	15.0	.0609
D	3.6	7.1	11.0	15.9	22.0	.1341
D	2.7	5.8	7.1	11.9	15.3	.0445
D	1.8	5.2	7.0	12.1	17.2	.127
D	2.2	5.9	9.4	12.5	16.6	.0474
D	2.2	4.7	6.6	10.7	14.6	.0341
D	3.5	5.9	12.9	18.7	2.3	.0609
D	2.7	8.0	11.7	16.0	18.8	.0341
D	2.2	6.0	9.0	12.4	18.5	.0445
D	2.1	4.4	7.4	10.2	14.1	.0799
D	3.5	6.1	8.2	11.5	15.8	.0799
D	3.0	5.6	8.9	13.2	16.5	.0474
D	2.0	5.2	9.9	13.9	17.4	.0445
D	2.3	4.0	8.5	11.0	14.6	.0341
D	3.0	6.4	9.3	13.2	18.6	.0445
D	2.4	5.7	9.0	11.7	17.8	.0445
D	3.5	5.7	9.1	11.9	16.0	.0474
D	2.6	6.3	7.5	11.8	18.8	.0609
D	2.2	4.6	8.0	12.6	18.7	.0445
D	2.2	4.6	8.4	13.1	16.7	.0474
D	2.4	5.2	8.9	11.4	16.5	.0474
D	2.9	7.0	10.5	14.0	17.6	.0620

1.2674

On larger trees O-point often not too clear. This group of trees maximum limit of size for intercepts.

Age of trees ranges from 15-18 years.

# Open

North Miss. Plantation Survey

Oktibbeha Co.

Natural Loblolly Miss. A.E.S. Exp. Forest  
State College

Loblolly  
Sample Plot

	Mean	Stand Dev.	coef. Var. %	# Samples
<u>Total Height</u>				
Mechanical Sample	-	-	-	-
All Dominants	45.00	4.49	9.98	25
<u>5 year intercepts</u>				
Mechanical sample	-	-	-	-
All Dominants	17.14	2.02	11.79	25



Suppressed  
North Miss. Plantation Survey

Oxtibbe Co.  
Loblolly Pine  
Sample Plot #1

# Natural Growth Intercept Med.  
Miss. S.E.S. Exp. Forest

	Mean	Stand Dev.	Coef. Var. %	# Samples
<u>Total Height.</u>				
Mechanical Sample	-	-	-	-
All Dominants	24.44	7.12	16.86	25
<u>5 Yr. Intercepts</u>				
Mechanical Sample	-	-	-	-
All Dominants	11.04	2.18	19.75	25

L.B. Area

## NORTH MISSISSIPPI PLANTATION INVESTIGATION

PLANTATION #: 4 . COUNTY: Oktibbeha . DATE: 6-12-46  
 SOIL AREA: Bottom land . T, R, S, 40: T1N R13E Sec. 9 PLANTED 1937 Spring  
U.S. Fish & Wildlife NE 1/4 Sec. 9 U.S. Govt. Agency  
 OWNER: Service . OCCUPATION: Management Research  
 ADDRESS: U.S. Fish & Wildlife Service - U.S. Dept. Int.  
Bluff Lake Headquarters, Natchez Co.  
 SPECIES: Loblolly Pine . AGE: 9? . PURPOSE: Reforestation  
in corn Approx.  
 TOTAL ACRES: 10 corn . SPACING: 6x6 Ft. AGE OF STOCK: 1-0  
 PLANTED BY: SCS . PLANTING METHOD: Dibble  
 SEED SOURCES: \_\_\_\_\_ . STOCK SOURCE: \_\_\_\_\_  
 FORMERLY CULTIV.: Yes . PASTURED: \_\_\_\_\_ . OTHER: \_\_\_\_\_  
 USE IMMED. PRIOR ABAND.: Cultivated for new crops  
 # YRS. BETW. ABANDONMENT AND PLANTING: None - planted from cuttin.  
 SITE PREPARATION: None  
 TREATMENT: None  
 CHARACTER AND DEGREE OF EROSION: Sheet - light  
 TOPOGRAPHY: LEVEL: X UNDULATING: \_\_\_\_\_ ROLLING: \_\_\_\_\_ HILLY: \_\_\_\_\_ PREC: \_\_\_\_\_  
 DAMAGE:

Agency	Degree of Damage		
	Light	Medium	Heavy
Fire	<u>0: may have been one</u>		<u>on entire</u>
	<u>at 100 ft. - no data</u>		<u>plantation</u>
Insect	<u>Old top with damage at 2-5 ft</u>		
Grazing			
Fungi	<u>C. fusiforme</u>	<u>✓</u>	
Other			

Replanting Data: DATE: No replanting . SEEDS: \_\_\_\_\_  
 # PER ACRE: \_\_\_\_\_ SOURCE: \_\_\_\_\_

PLANTING DATA: \_\_\_\_\_

REMARKS: ① Large areas of plantation destroyed by fire, or fires, but rest of sample plot only lightly damaged. Occurrence of fire shown by slightly charred butt bark.

## NORTH MISSISSIPPI PLANTATION INVESTIGATION

Plantation #: 4. Date: 6-28-46. Area #: 1 of 1Acres in Area: 2. # Sample plots: 2. Sample Plot #: 1Species: Loblolly Pine. Spacing: Approx. 6x6 feetReplanting data: No replanting

## SITE CHARACTERISTICS

Soil Type: Wet M<sup>1</sup> clay Phase: --- Catenae: ---Utility Soil Class: --- Sur. Soil Tex.: Loamy silt clay

Classification of subsoil properties by Code Number

Drainage 3 Plasticity 4 Compactness 2 Color Wet M<sup>1</sup> clay Profile # --- Depth to W.T. --- pH 5.0 Structure 10

## CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil No compact subsoil Thickness of A<sub>1</sub> Horiz. 0 Sheet eros- ion class 4 Slope 0 pH 5.0 Depth to Subsoil --- Structure 10 mottled

Topographical position: Subject to occasional overflows level bottom. "Crabfish land"Exposure: None - level bottom

## Volunteer Growth

Species (with % composition): R. gum (40), R. m. h. (20), S. s. f. (20)Sycamore (10), winged elm (10)  
Very sparseDensity: ---. Origin: seedling. Competition: None% Composition adjacent forest: ---

## Ground Cover

Density: Very sparse. Character: weeds. Indicator Plants: ---  
Possibly Blackberry occurs in abundance in field surrounding plantation.

## PLANTATION TREES

Survival %: ---. Ave. Ht. Growth/yr: --- Feet.Ave. d.b.h.: ---. Ave. Inter. Index: ---Remarks: ---



Oktibbeha Co.

Plant. #4

Plot #2

Area 1 of 1

Sp. - Loblolly-Wen<sup>o</sup>erly Clay

Total Height

Mechanical Sample

Area. Ht.

Stn. Dev.

Coc. of V o/s

30.20

2.197

7.275

Dominants

30.56

1.85

6.05

Mechanical Sample

16.68

2.91

17.446

Dominants

16.90

2.95

17.45

#Samples - 25

NORTH MISSISSIPPI PLANTATION INVESTIGATIONPlantation #: 4 . Date: 6/12/46 . Area #: 1 of 1Acres in Area: 1/4 . # Sample plots: 2 . Sample Plot #: 2Species: Loblolly Pine . Spacing: Approx. 6 x 6 ft.Replanting data: No replantingSITE CHARACTERISTICSSoil Type: soil map  
very clay Phase: \_\_\_\_\_ Catenae: \_\_\_\_\_

Utility Soil Class: \_\_\_\_\_ Sur. Soil Tex.: \_\_\_\_\_

## Classification of subsoil properties by Code Number

Drainage	Plasticity	Compactness	Color	Profile #	Depth to W.T.	pH	Structure

## CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet eros- ion class	Slope %	pH	Depth to Subsoil	Structure
			<u>0</u>			

Topographical position: Bottom (express dirt)Exposure: None - level

## Volunteer Growth

Species (with % composition): P. gum (50) winged = 1m (20)sassafras (1) Sydnore (2), bl. gum (27)Density: sparse . Origin: seed . Competition: none

% Composition adjacent forest: \_\_\_\_\_

Ground CoverDensity: light . Character: seedlings  
needle . Indicator Plants: Black-  
berry very plentiful, grass sparse.PLANTATION TREES

Survival %: \_\_\_\_\_ . Ave. Ht. Growth/yr: \_\_\_\_\_ Feet.

Ave. d.b.h.: \_\_\_\_\_ . Ave. Inter. Index: \_\_\_\_\_

Remarks: \_\_\_\_\_

Ant # 4  
Waverly Clay

Sample Plot #1  
Area 1 of 1

Loblolly

Total Height

Purposeful selection - (Dominants)

Ave. Ht.

Stand Dev.

C. of V. %

36.98

2.2

6.03

Intercept (5<sup>th</sup> yr.)

All Dominants

16.24

3.079

18.96

# Samples: 25

Intercepts very much in doubt, due to heavy  
moth damage and distorted growth.



OKibbaha  
QWA  
Sample trees picked from largest DBH in plot.

6/12/46

#1  
L. 61.011y

6.2	35	D	1.8	3.4	6.0	9.4	13.3
7.4	39	D	2.4	4.0	7.9	12.7	19.1
6.0	39	D	2.6	6.8	10.9	15.9	20.1
6.0	37	D	3.4	7.6	11.4	14.3	18.3
6.7	38	D	3.6	7.7	12.1	15.2	23.6
6.7	37	D	1.1	4.0	7.9	11.2	13.3
6.0	33	D	1.9	3.4	6.2	9.9	13.3
6.3	39	D	1.5	4.5	7.2	10.6	17.0
6.0	35	D	3.3	7.3	12.1	16.6	20.7
5.5	33	D	2.2	5.7	9.7	11.9	16.0
7.0	36	D	1.4	3.6	4.8	7.3	12.5
6.6	35	D	1.2	4.8	7.5	9.1	12.3
5.6	35 X	D					
6.9	39	D	1.5	3.7	6.7	9.7	12.9
5.7	40	D	3.6	5.9	8.6	12.5	17.8
6.7	37	D	1.7	2.9	6.5	11.3	15.9
6.3	37 X						
5.9	33	D	1.9	3.7	6.2	9.3	13.3
5.7	35	D	3.5	8.0	11.0	15.4	19.5
6.5	37	D	3.2	7.2	10.9	14.4	17.8
6.2	38	D	3.1	4.6	8.0	11.5	16.3
7.4	37	D	1.6	4.6	7.2	10.5	14.5
6.6	37	D	2.0	2.9	6.2	10.8	15.3
6.5	38	D	1.2	3.2	6.0	9.1	12.0
5.9	38	D	2.2	5.3	7.5	10.4	16.6
5.7	38	D	2.1	4.4	6.4	13.5	18.5
5.7	38	D	2.5	4.6	8.5	14.0	19.1

Note: Intercepts very much in doubt on this plantation due to heavy tip-moth damage & distorted growth.

Apparently #2 attached to means  
 For #2, P.C.W. 11/29/46

200 planting  
 spaces

OK Tibbels

G.W.A. J.M.

Mechanical sample.

4  
 7/17/46

1  
 Loblolly Pin.  
 L.V. Area  
 VVaverly Oldy

6.5 30  
 4.8 29  
 5.5 30  
 6.3 32  
 5.6 31  
 6.4 30  
 5.9 30  
 5.5 30  
 5.3 29  
 5.0 28  
 7.0 28  
 4.3 34  
 4.5 32  
 4.8 31  
 7.0 32  
 6.0 36  
 3.3 26  
 4.9 29  
 5.8 31  
 5.8 31  
 4.1 29  
 5.5 32  
 5.4 30  
 5.8 29  
 4.5 26

D 1.6 4.9 7.3 10.0 12.8 17.1  
 D 2.9 5.8 8.3 12.7 16.9  
 D 1.9 3.6 6.2 9.6 17.3  
 D 2.3 3.8 8.0 11.1 15.2  
 D 2.9 7.0 11.1 15.7 19.8  
 D 1.8 3.2 5.6 8.6 13.3  
 D 2.3 6.4 9.7 14.0 19.5  
 D 3.2 4.6 6.4 8.4 13.8  
 D 2.5 5.0 8.0 11.2 15.0  
 D 3.1 6.3 10.6 15.2 19.8  
 D 1.7 4.7 9.7 13.1 17.2  
 D 2.1 5.0 8.4 12.0 16.6  
 D 3.4 7.4 13.7 17.6 23.0  
 D 2.7 4.9 6.6 11.2 15.8  
 D 2.6 6.5 10.3 15.3 21.4  
 D 2.6 4.5 7.8 11.2 16.7  
 D 1.9 3.9 6.5 11.2 16.4  
 D 1.9 5.1 8.1 10.5 15.5  
 D 1.6 3.3 5.7 7.5 11.0  
 D 1.8 4.2 6.4 10.0 14.5  
 D 2.4 5.0 8.0 9.4 14.7  
 D 1.8 4.8 6.9 10.8 17.1  
 D 2.2 5.8 10.7 16.4 22.0  
 D 2.7 4.8 8.7 12.8 16.2  
 I 2.5 5.5 8.4 12.1 15.6

Plain intercepts

Plain intercepts - 8 with one

Plain

"

"

"

Vine smothered

Very Plain

"U" rooted - plain

Extra dominants to replace I in regular sample

A. 5.4 { 29 }  
 B. 5.7 { 32 }  
 D 2.2 6.1 10.7 14.5 18.9  
 3.6 8.0 11.7 15.6 18.6

Note: Intercepts not plain due to heavy early tip moth damage and consequent confusion in growth.

NORTH MISSISSIPPI PLANTATION INVESTIGATIONPLANTATION #: 5 . COUNTY: Winston . DATE: 7-8-46

SOIL AREA: \_\_\_\_\_ . T,R,S,40: \_\_\_\_\_ . PLANTED \_\_\_\_\_

OWNER: D.L. Fair Lumber Co. . OCCUPATION: Lumber & flooring mfgADDRESS: Louisville Miss.SPECIES: Loblolly pine . AGE: \_\_\_\_\_ . PURPOSE: Demonstration reforestationTOTAL ACRES: 6 . SPACING: \_\_\_\_\_ AGE OF STOCK: \_\_\_\_\_

PLANTED BY: \_\_\_\_\_ . PLANTING METHOD: \_\_\_\_\_

SEED SOURCES: \_\_\_\_\_ . STOCK SOURCE: \_\_\_\_\_

FORMERLY CULTIV.: \_\_\_\_\_ . PASTURED: \_\_\_\_\_ . OTHER: \_\_\_\_\_

USE IMMED. PRIOR ABAND.: \_\_\_\_\_

# YRS. BETW. ABANDONMENT AND PLANTING: None

SITE PREPARATION: \_\_\_\_\_

TREATMENT: None

CHARACTER AND DEGREE OF EROSION: \_\_\_\_\_

TOPOGRAPHY: LEVEL: \_\_\_\_\_ UNDULATING: \_\_\_\_\_ ROLLING: \_\_\_\_\_ HILLY: \_\_\_\_\_ PREC: \_\_\_\_\_

DAMAGE:

Agency	Degree of Damage		
	: Light	: Medium	: Heavy
Fire	:	:	:
Insect <u>Tip moth</u>	:	:	:
Grazing	:	:	:
Fungi <u>Brown Spot on bark</u>	:	:	:
<u>leaf-eating forms on lily</u>	:	:	:
Other	:	:	:

Replanting Data: DATE: No replanting . SPECIES: \_\_\_\_\_

# PER ACRE: \_\_\_\_\_ SOURCE: \_\_\_\_\_

PLANTING DATA: \_\_\_\_\_

REMARKS: \_\_\_\_\_



NORTH MISSISSIPPI PLANTATION INVESTIGATIONPlantation #: 5. Date: 7-8-46. Area #: 1 of \_\_\_\_\_Acres in Area: 2. # Sample plots: 1. Sample Plot #: 1Species: loblolly and longleaf. Spacing: \_\_\_\_\_Replanting data: No replantingSITE CHARACTERISTICS

Soil Type: \_\_\_\_\_ Phase: \_\_\_\_\_ Catenae: \_\_\_\_\_

Utility Soil Class: \_\_\_\_\_ Sur. Soil Tex.: \_\_\_\_\_

## Classification of subsoil properties by Code Number

Drainage	Plasticity	Compactness	Color	Profile #	Depth to W.T.	pH	Structure
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

## CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet eros- ion class	Slope %	pH	Depth to Subsoil	Structure
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Topographical position: \_\_\_\_\_

Exposure: \_\_\_\_\_

## Volunteer Growth

Species (with % composition): \_\_\_\_\_

Density: \_\_\_\_\_ Origin: \_\_\_\_\_ Competition: \_\_\_\_\_

% Composition adjacent forest: \_\_\_\_\_

Ground Cover

Density: \_\_\_\_\_ Character: \_\_\_\_\_ Indicator Plants: \_\_\_\_\_

PLANTATION TREES

Survival %: \_\_\_\_\_ Ave. Ht. Growth/yr: \_\_\_\_\_ Feet.

Ave. d.b.h.: \_\_\_\_\_ Ave. Inter. Index: \_\_\_\_\_

Remarks: \_\_\_\_\_

## NORTH MISSISSIPPI PLANTATION INVESTIGATION

PLANTATION #: 6 . COUNTY: Winston . DATE: July 5-6, 1946  
 SOIL AREA: sand and clay hills . T, R, S, 40: SW 1/4 NE 1/4 . PLANTED Fall 1937  
 OWNER: U.S. Gov't - S.C.S. . OCCUPATION: Gov't Agency  
 ADDRESS: S.C.S. Headquarters, Chocoma Lake, Winston County  
 SPECIES: Loblolly pine . AGE: 9 yrs . PURPOSE: Reforestation  
 TOTAL ACRES: \_\_\_\_\_ . SPACING: 6x6' approx. AGE OF STOCK: 1-0  
 PLANTED BY: S.C.S. planting crew . PLANTING METHOD: Dibble  
 SEED SOURCES: Do not know . STOCK SOURCE: Do not know  
 FORMERLY CULTIV.: Yes. Furrows visible . PASTURED: \_\_\_\_\_ . OTHER: \_\_\_\_\_  
 USE IMMED. PRIOR ABAND.: Cultiv. - row cropped for corn  
 # YRS. BETW. ABANDONMENT AND PLANTING: None - Planted from corn field  
 SITE PREPARATION: None - but planted from corn cultivation  
 TREATMENT: None  
 CHARACTER AND DEGREE OF EROSION: Sheet - heavy  
 TOPOGRAPHY: LEVEL: \_\_\_\_\_ UNDULATING: \_\_\_\_\_ ROLLING: X HILLY: \_\_\_\_\_ PREC: \_\_\_\_\_  
 DAMAGE:

Agency	Degree of Damage		
	Light	Medium	Heavy
Fire	: <u>None</u>	:	:
Insect	: <u>Tip moth &amp; 10/14</u>	:	: <u>2-5 yrs. ago</u>
Grazing	:	:	: <u>Tip moth</u>
Fungi	: <u>G. fusiforme</u>	: <u>Killing</u>	:
Other	:	: <u>only few trees</u>	:

Replanting Data: DATE: No replanting SPECIES: \_\_\_\_\_

# PER ACRE: \_\_\_\_\_ SOURCE: \_\_\_\_\_

PLANTING DATA: \_\_\_\_\_

REMARKS: \_\_\_\_\_

NORTH MISSISSIPPI PLANTATION INVESTIGATIONPlantation #: 6. Date: 7-5-46. Area #: 1 of 2Acres in Area:       . # Sample plots: 2. Sample Plot #: 1Species: loblolly Pine. Spacing: 6 X 6 ft. approx.Replanting data: No replantingSITE CHARACTERISTICSSoil Type: orangeburg pine s.l. Phase: eroded Catenae:       Utility Soil Class:        Sur. Soil Tex.:       

## Classification of subsoil properties by Code Number

Drainage	Plasticity	Compactness	Color	Profile #	Depth to W.T.	pH	Structure
<u>5</u>	<u>5</u>	<u>5</u>	<u>      </u>	<u>      </u>	<u>X</u>	<u>5.5</u>	<u>7</u>

## CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet erosion class	Slope %	pH	Depth to Subsoil	Structure
<u>—</u>	<u>none</u>	<u>4</u>	<u>      </u>	<u>5.5</u>	<u>7"</u>	<u>7</u>

Topographical position: level ridge top stretch in rolling terrainExposure: NoneVolunteer GrowthSpecies (with % composition): winged elm (10), loblolly pine (40)  
dogwood (40), red gum (5), reed cedar (3), black cherry (2)Density: light (1). Origin: seedlings. Competition: None% Composition adjacent forest: Poison ivyGround CoverDensity: light. Character: grass + weeds. Indicator Plants: Poison ivy, smilax, plantain, grass, blackberry.PLANTATION TREESSurvival %:       . Ave. Ht. Growth/yr:        Feet.Ave. d.b.h.:       . Ave. Inter. Index:       Remarks:



Plant 6

Sample Plot #1

Ared #1

Age 9 years

Total Height

Lob 10.11y

(A) Mech. sample

Ar. Ht.

Stand Dev.

Coef-V o/o

22.26

2.493

11.20

(B) All Dom.

22.66

2.20

9.71

5 Year Intercept

(A) Mech. sample

18.21

2.192

12.03

(B) All Dom.

18.61

1.95

10.48

#Samples - 23

Winston  
P.C.W., G.W.A., J.M.

July 5-6, 1946

Loblolly  
L.V. Area Winston Co.

4.6	24	D	2.6	7.1	11.7	15.1	19.1
4.5	23	D	2.7	6.3	10.4	14.5	18.3
5.1	26	D	4	8	14.5	18.5	22.7
5.2	27	D	4.2	7.6	12.2	16.2	22.5
2.1	18.7	I	1.9	5.7	10.2	14.4	—
4.4	23.4	D	2.2	6.4	11.0	15.7	20.6
5.4	26.9	D	2.0	5.7	10.7	15.5	19.3
4.3	22.8	D	1.8	4.5	7.5	10.5	15.4
4.2	23.4	D	2.0	7.1	10.8	15.1	19.7
4.6	21.3	D	2.3	6.0	10.1	12.6	17.8
4.3	24.8	D	2.4	7.8	12.9	17.0	21.0
2.6	17.2	I	2.3	5.8	9.7	11.6	13.6
4.0	20.5	D	2.4	6.3	9.4	13.4	17.2
3.4	20.3	I	2.1	5.2	8.2	12.6	16.7
5.0	21.3	D	2.6	7.4	10.7	14.0	16.7
4.5	22.3	D	3.0	8.5	11.4	14.9	18.2
4.1	21.0	D	1.7	6.5	9.8	13.8	17.2
4.6	22.9	D	3.2	8.4	11.3	15.4	18.7
4.3	20.8	D	2.0	3.9	9.4	13.9	17.6
3.0	20.1	D	3.6	7.9	12.4	16.3	—
4.2	23.6	D	1.9	7.2	11.0	15.1	19.5
4.3	20.5	D	2.2	6.0	10.3	13.2	16.8
3.7	20.4	D	2.6	7.5	10.3	13.9	17.5
3.6	20.2	D	2.3	5.9	9.4	13.4	17.3
3.8	16.4	D	2.2	6.0	8.6	12.5	16.4
4.4	23.9	D	3.3	8.9	12.7	16.4	22.1
4.9	23.8	D	3.6	8.1	10.8	15.6	19.5

Taking total of 25 trees

Ar. diam of dominants = 439 in.

\* A, B, C are D under Crown class

## NORTH MISSISSIPPI PLANTATION INVESTIGATION

PLANTATION #: 7 . COUNTY: Oktibbeha . DATE: 7-12-46  
 SOIL AREA: Flatwoods . T, R, S, 40: NE4SE4 - Sec. 5 . PLANTED Spring 1937  
 U.S.D. & T. Interior  
 OWNER: Fish and wildlife service . OCCUPATION: Land Management  
 ADDRESS: Hedgecrofters  
Bluff Lake, Neshoba Co., Miss.  
 SPECIES: loblolly Pine . AGE: 9 <sup>growing</sup> years . PURPOSE: Reforestation  
abund. field  
 TOTAL ACRES: \_\_\_\_\_ . SPACING: \_\_\_\_\_ AGE OF STOCK: 1-0  
 PLANTED BY: Soil conservation service . PLANTING METHOD: dibble  
 SEED SOURCES: \_\_\_\_\_ . STOCK SOURCE: \_\_\_\_\_  
 FORMERLY CULTIV.: X . PASTURED: \_\_\_\_\_ . OTHER: \_\_\_\_\_  
 USE IMMED. PRIOR ABAND.: cultivated corn and cotton  
 # YRS. BETW. ABANDONMENT AND PLANTING: None  
 SITE PREPARATION: None - planted from cultivation  
 TREATMENT: None  
 CHARACTER AND DEGREE OF EROSION: \_\_\_\_\_  
 TOPOGRAPHY: LEVEL: ✓ UNDULATING: \_\_\_\_\_ ROLLING: \_\_\_\_\_ HILLY: \_\_\_\_\_ PREC: \_\_\_\_\_  
 DAMAGE:

Agency	Degree of Damage		
	Light	Medium	Heavy
Fire: <u>sign of light fire</u> <u>3-5 years ago</u>	<u>✓</u>		
Insect: <u>tip-moth 2-6 yrs</u> <u>freezing cutworm</u>			<u>Heavy early damage</u>
Grazing: <u>trampled heavy</u>	<u>✓</u>		
Fungi: <u>C. fusiforme</u>		<u>some trees killed - others not damaged</u>	
Other:			

Replanting Data: DATE: No replanting . SPECIES: \_\_\_\_\_

# PER ACRE: \_\_\_\_\_ SOURCE: \_\_\_\_\_

PLANTING DATA: \_\_\_\_\_

REMARKS: \_\_\_\_\_



NORTH MISSISSIPPI PLANTATION INVESTIGATIONPlantation #: 7. Date: 7-18-46. Area #: 1 of 2Acres in Area: \_\_\_\_\_. # Sample plots: 1. Sample Plot #: 1Species: Loblolly Pine. Spacing: \_\_\_\_\_Replanting data: No replantingSITE CHARACTERISTICSSoil Type: Myall clay Phase: \_\_\_\_\_ Catenae: \_\_\_\_\_

Utility Soil Class: \_\_\_\_\_ Sur. Soil Tex.: \_\_\_\_\_

## Classification of subsoil properties by Code Number

Drainage	Plasticity	Compactness	Color	Profile #	Depth to W.T.	pH	Structure

## CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet eros- ion class	Slope %	pH	Depth to Subsoil	Structure
		<u>4</u>	<u>1</u>			

Topographical position: \_\_\_\_\_

Exposure: \_\_\_\_\_

## Volunteer Growth

Species (with % composition): Wing elm ( ), R. gum ( ),  
loblolly ( ) R. maple ( )

Density: \_\_\_\_\_. Origin: \_\_\_\_\_. Competition: \_\_\_\_\_

% Composition adjacent forest: \_\_\_\_\_

Ground Cover

Density: \_\_\_\_\_. Character: \_\_\_\_\_. Indicator Plants: \_\_\_\_\_

PLANTATION TREES

Survival %: \_\_\_\_\_. Ave. Ht. Growth/yr: \_\_\_\_\_ Feet.

Ave. d.b.h.: \_\_\_\_\_. Ave. Inter. Index: \_\_\_\_\_

Remarks: \_\_\_\_\_

Oktibbehd  
1 of 1  
J.M. + GWA.  
250 planting spaces

7-18-46  
9 growing seasons

1 of 2  
Loblolly  
L.V. grad.  
Myatt aldy loan

25-tree mechanical sample.

6.0	25
2.0	19
5.4	29
4.9	25
2.7	20.93
3.6	25
4.7	27
4.2	25
3.4	27
5.4	30
5.0	26
5.4	29
4.0	27
2.5	24
4.3	27
4.6	27
5.6	28
3.8	25
4.8	25
2.9	25
3.3	24
4.6	27
2.6	19
5.5	27
6.2	26

D	2.5	4.5	7.7	10.4	14.3	
I	1.0	1.9	4.3	6.0	8.13	-
D	1.3	3.7	7.2	9.4	12.4	
D	2.4	4.7	6.5	12.5	17.0	
I	1.3	2.3	4.4	6.7	10.93	-
I	2.0	3.1	4.7	5.9	9.93	-
D	2.6	5.8	10.2	13.5	16.9	Cronartium
D	2.0	3.8	7.8	10.9	14.1	
D	2.5	4.2	7.3	11.6	14.6	
D	2.6	5.3	10.9	15.8	19.5	
D	0.8	3.4	4.4	7.1	11.1	Cronartium
D	1.5	3.2	4.6	8.4	13.8	
D	1.3	3.4	5.7	7.3	10.9	
D	1.9	3.4	5.4	7.3	11.1	- Cronartium
D	1.5	3.2	5.6	8.5	10.2	
D	1.4	2.9	4.8	8.3	11.6	
D	2.0	4.9	11.0	15.7	18.4	
D	2.6	4.7	6.1	9.3	12.33	-
D	3.0	6.3	9.8	13.8	16.8	-
D	2.1	3.2	7.2	11.1	16.13	-
D	2.2	5.2	9.0	13.2	17.5	
D	2.7	5.4	8.1	11.6	16.0	
D	1.6	2.7	3.6	7.0	10.73	- Cronartium
D	1.6	3.6	5.2	7.0	12.2	
D	2.0	3.9	7.1	11.1	17.2	

249.4

Extra	dominants	- for	dominant	sample					
A	6.2	30	D	2.7	4.9	9.9	12.3	16.4	Cronartium
B	5.4	30	D	1.5	3.8	7.6	12.2	15.9	
C	4.3	29	D	2.2	3.6	7.4	11.0	14.9	
D	5.1	27	D	1.5	3.0	4.9	8.6	11.2	
E	4.8	29	D	1.5	3.5	5.2	7.0	12.5	
F	5.3	32	D	3.2	6.8	11.3	15.1	19.0	
G	5.7	31	D	1.9	3.1	6.1	9.1	13.3	
H	5.1	32	D	1.4	3.4	6.7	11.3	15.2	

Intermediate and suppressed stems  
largely due to heavier tip moth damage.  
Av. diam. of dominants = 5.04 inches - J.M.

Plant #7

Plot #1

Area 1 of 2

Loblolly9 growing seasons  
Oktibbeha Co.

Total Height

Mech. Sample  
Av. Ht.

Stan. Dev.

C. of V. %

25.56

2.724

10.66

All Dominants

27.88

2.13

7.64

5 YearsInterceptMech. Sample  
13.74

3.11

22.63

All Dominants  
14.64

3.70

18.44

\* Samples = 25



NORTH MISSISSIPPI PLANTATION INVESTIGATIONPLANTATION #: 8 . COUNTY: OKtilla . DATE: 7-19-46SOIL AREA: Flatwoods . T,R,S,40: 17N,14E . PLANTED Fall 1936OWNER: U.S. Dept. Interior - Fish & Wildlife Service . OCCUPATION: Land managementADDRESS: Headquarters, Bluff Lake, Neshoba Co., Miss.SPECIES: Short leaf . AGE: 9 growing . PURPOSE: reforestation of abandoned landTOTAL ACRES: approx. 40-50 . SPACING: 6x6 ft approx. . AGE OF STOCK: 1-0PLANTED BY: seedling cane . PLANTING METHOD: Dibble

SEED SOURCES: \_\_\_\_\_ . STOCK SOURCE: \_\_\_\_\_

FORMERLY CULTIV.: ✓ . PASTURED: \_\_\_\_\_ . OTHER: \_\_\_\_\_USE IMMED. PRIOR ABAND.: In cult. Row crops# YRS. BETW. ABANDONMENT AND PLANTING: NoneSITE PREPARATION: NoneTREATMENT: None

CHARACTER AND DEGREE OF EROSION: \_\_\_\_\_

TOPOGRAPHY: LEVEL: ✓ UNDULATING: \_\_\_\_\_ ROLLING: \_\_\_\_\_ HILLY: \_\_\_\_\_ PREC: \_\_\_\_\_

DAMAGE:

Agency	Degree of Damage		
	: Light	: Medium	: Heavy
Fire	: <u>One or</u>	: <u>✓</u>	: <u>✓</u>
Insect	: <u>Tip moth - heavy early</u>	: <u>✓</u>	: <u>3-6 yrs</u>
Grazing	:	:	:
Fungi	:	:	:
Other	:	:	:

Replanting Data: DATE: None . SPECIES: \_\_\_\_\_

# PER ACRE: \_\_\_\_\_ SOURCE: \_\_\_\_\_

PLANTING DATA: \_\_\_\_\_

REMARKS: \_\_\_\_\_

NORTH MISSISSIPPI PLANTATION INVESTIGATIONPlantation #: 8 . Date: 7-17-46 . Area #: 1 of 2Acres in Area: 4 . # Sample plots: 1 . Sample Plot #: 1Species: Short leaf pine . Spacing: 6 x 6 ft approx.Replanting data: No replantingSITE CHARACTERISTICSSoil Type: Lufkin  
silt loam Phase: \_\_\_\_\_ Catenae: \_\_\_\_\_Utility Soil Class: \_\_\_\_\_ Sur. Soil Tex.: 5.1

Classification of subsoil properties by Code Number

Drainage	Plasticity	Compactness	Color	Profile #	W.T.	pH	Structure
<u>2</u>	<u>4</u>	<u>4</u>				<u>4.5</u>	<u>Mis- sive</u>

CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet eros- ion class	Slope %	pH	Depth to Subsoil	Structure
<u>6"</u>	<u>6"</u>		<u>0.5</u>	<u>5.0</u>		<u>5</u>

Topographical position: on gentle sloping upland.  
Flat to undulating uplands.Exposure: gentle (0.5%) south slope

Volunteer Growth

Species (with % composition): loblolly (100)Density: very light . Origin: seedling . Competition: None

% Composition adjacent forest: \_\_\_\_\_

Ground CoverDensity: Heavy . Character: mostly sedge.  
sedges . Indicator Plants: sedgePLANTATION TREES

Survival %: \_\_\_\_\_ . Ave. Ht. Growth/yr: \_\_\_\_\_ Feet.

Ave. d.b.h.: \_\_\_\_\_ . Ave. Inter. Index: \_\_\_\_\_

Remarks: \_\_\_\_\_

Plant # 8

Plot # 1

OKtibbo Co.

Area 10 ft<sup>2</sup>

Sp. - Shortleaf Pine

All trees purposely selected (Dominants)

Total Height

Ar. Height - Stdn Dev. - C. of Var. - %

20.44

1.916

9.37

5 Year Intercepts

12.15

2.026

16.67

# samples - 25



## NORTH MISSISSIPPI PLANTATION INVESTIGATION

PLANTATION #: 9 COUNTY: Madison DATE: 7-24-46  
 SOIL AREA: Brown loam T, R, S, 40: T8N R. 2E PLANTED Winter 37-38  
 OWNER: T. H. Riddell OCCUPATION: Farmer  
 ADDRESS: Canton, Miss  
 SPECIES: Loblolly and Slash Pine AGE: 9 G.S. PURPOSE: Refer.  
 TOTAL ACRES: 30 approx. SPACING: 6x5 ft, 5 feet AGE OF STOCK: 1-0  
 PLANTED BY: SCS-CCC <sup>planting</sup> crews PLANTING METHOD: Dibble  
 SEED SOURCES: \_\_\_\_\_ STOCK SOURCE: S.C.S. nurseries in Ala.  
 FORMERLY CULTIV.: ✓ PASTURED: \_\_\_\_\_ OTHER: \_\_\_\_\_  
 USE IMMED. PRIOR ABAND.: Cultivated to row crops  
 # YRS. BETW. ABANDONMENT AND PLANTING: None  
 SITE PREPARATION: None  
 TREATMENT: None  
 CHARACTER AND DEGREE OF EROSION: sheet: Heavy: Gully: light.  
 TOPOGRAPHY: LEVEL: \_\_\_\_\_ UNDULATING: \_\_\_\_\_ ROLLING: X HILLY: \_\_\_\_\_ PREC: \_\_\_\_\_  
 DAMAGE: \_\_\_\_\_

Agency	Degree of Damage		
	Light	Medium	Heavy
Fire	:	:	:
Insect	:	:	: in loblolly pine
Grazing	:	✓	:
Fungi	: <u>G. fusiform &amp; cerebrum</u>	✓	:
Other	:	:	:

Replanting Data: DATE: None SPECIES: \_\_\_\_\_

# PER ACRE: \_\_\_\_\_ SOURCE: \_\_\_\_\_

PLANTING DATA: \_\_\_\_\_

REMARKS: This plantation on Grenada silt loam. Area by Co. soils map, but identified as comparable silty clay loam. Compare is a mixed Brown loam upland soil over Morley clays.

# NORTH MISSISSIPPI PLANTATION SURVEY

County OKTIBBEH  
 Plot # 1  
 By J.M. + B.W.H.

Plant. No. 8  
 Date 7-19-46  
 Age 9 growing seasons

Area 1 of 2  
 Species Shortleaf

L.V. Area

No.	DBH in.	Total Height Ft.	Ave. Ft/yr.	Crown Class	Intercept Measurements						Remarks
					Feet						
					1	2	3	4	5	6	
1	5.2	22		D	2.5	2.9	6.4	9.2	12.9		
2	4.8	22		D	2.2	3.2	6.7	9.0	11.5		
3	3.0	21		D	1.2	2.1	4.0	5.8	9.2		
4	4.3	22		D	1.9	3.5	5.5	7.7	10.9		
5	3.3	19		D	2.2	3.7	5.7	8.6	11.5		
6	4.8	23		D	1.0	2.7	5.8	10.5	13.5		
7	3.4	21		D	1.4	2.7	5.3	7.1	9.8		
8	4.1	20		D	2.2	4.7	8.5	11.5	14.2		
9	4.5	21		D	2.0	4.0	7.6	9.2	13.2		
10	4.5	23		D	2.8	5.0	7.8	13.1	15.9		
11	3.1	20		D	1.8	3.6	5.8	7.9	10.8		
12	3.6	19		D	2.4	4.6	3.8	12.5	16.7		
13	3.4	20		D	1.3	2.2	4.8	7.0	9.7		
14	6.7	24		D	1.9	4.0	6.4	8.1	11.0		outstanding for plantation
15	4.4	19		D	3.2	3.9	8.0	11.9	15.1		
16	4.1	21		D	2.1	5.2	7.8	9.8	12.8		
17	4.9	21		D	2.7	5.5	8.0	10.0	13.9		
18	3.7	20		D	2.3	3.9	6.8	9.0	11.3		
19	4.1	20		D	1.7	4.9	6.9	10.1	13.4		
20	3.4	19		D	1.2	2.7	4.9	6.1	9.1		
21	3.0	17		D	1.7	3.2	4.2	6.3	10.1		
22	2.9	16		D	1.5	4.2	6.3	9.1	11.8		
23	5.0	22		D	2.1	4.6	8.0	10.5	13.0		
24	3.6	20		D	1.6	4.5	6.4	9.2	11.8		
25	4.5	21		D	1.4	2.6	5.4	8.1	11.7		
T.											
M.											

Note: Purposeful selection method used in choosing sample trees. Stunted specimens avoided. Out of 200 planting spaces, each 8<sup>th</sup> tree taken - if stunted or deformed, the next representative tree was taken.

Ave. diameter = 4.09 in.

## NORTH MISSISSIPPI PLANTATION INVESTIGATION

Plantation #: 9. Date: 7-24-46. Area #: 1 of 2Acres in Area: 15. # Sample plots: 2. Sample Plot #: 1Species: lob. lilly. Spacing: 5x6 ft.Replanting data: No replanting

## SITE CHARACTERISTICS

Soil Type: couple silty clay loam Phase: \_\_\_\_\_ Catenae: \_\_\_\_\_Utility Soil Class: \_\_\_\_\_ Sur. Soil Tex.: silty clay loam

Classification of subsoil properties by Code Number

Drainage	Plasticity	Compactness	Color	Profile #	Depth to W.T.	pH	Structure
<u>2</u>	<u>3</u>	<u>3</u>			<u>X</u>	<u>5.5</u>	<u>6</u>

## CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet eros- ion class	Slope %	pH	Depth to Subsoil	Structure
<u>20 in.</u>	<u>0</u>	<u>1</u>	<u>1</u>	<u>5.0</u>	<u>2 in.</u>	<u>6</u>

Topographical position: Ridgetop - fairly levelExposure: N.E. gentle slope

## Volunteer Growth

Species (with % composition): Persea ( ) winged elm ( )Density: light. Origin: seed. Competition: None

% Composition adjacent forest: \_\_\_\_\_

## Ground Cover

Density: Medium. Character: mostly sedge, Bermuda grass. Indicator Plants: Brown

## PLANTATION TREES

Survival %: \_\_\_\_\_ Ave. Ht. Growth/yr: \_\_\_\_\_ Feet.

Ave. d.b.h.: \_\_\_\_\_ Ave. Inter. Index: \_\_\_\_\_

Remarks: \_\_\_\_\_

Identified by H.F. Wilkie, Jr.  
conservationist - SCS - Canton



05-31

NORTH MISSISSIPPI PLANTATION SURVEY

County Madison  
Plot # 1  
By JM & A

Plant. No. 9  
Date 1-14  
Age 8 yrs 32 days

Area 1  
Species Loblolly

No.	DBH in.	Total Height Ft.	Ave. Ft/yr.	Crown Class	Intercept Measurements						Remarks
					Feet						
					1	2	3	4	5	6	
1	3.8	21'	X	D	2.2	5.0	6.6	11.2	14.1		Intercepts were not clear for this plot.
2	4.4	26'		D	1.7	4.9	8.1	10.8	13.4		
3	4.2	27'		D	2.6	4.2	6.9	9.6	13.5		
4	4.3	25'		D	2.2	5.0	7.8	10.9	14.0		
5	2.9	(21)		F	1.8	4.1	8.2	10.2	13.8		
6	4.9	25'		D	1.8	4.3	7.5	9.6	13.4		
7	4.1	25'		D	2.5	5.0	7.8	10.2	13.4		
8	4.0	20'		D	2.6	4.0	6.3	9.8	13.3		
9	4.3	20'		D	2.6	4.8	7.3	10.5	12.3		
10	4.7	25'		D	2.6	5.1	8.7	10.9	14.0		
11	4.6	23'		D	1.8	5.1	7.5	11.0	14.0		
12	4.3	27'		D	2.3	5.3	8.6	10.9	14.0		
13	4.0	24'		D	1.9	4.5	7.8	10.8	13.8		
14	4.4	27'		D	2.2	3.5	7.4	11.7	13.3		
15	4.2	22'		D	2.0	5.8	8.0	11.6	15.0		
16	5.3	22'		D	1.9	4.4	7.7	11.4	14.2		
17	2.9	(22)		F	1.7	3.9	6.3	8.8	11.0		
18	3.5	26'		D	1.7	4.3	6.8	8.4	12.4		
19	3.5	26'		D	2.7	2.9	6.5	9.0	12.9		
20	4.5	25'		D	2.2	5.4	7.5	9.0	12.8		
21	5.1	26'		D	1.6	4.9	7.3	11.1	13.7		
22	4.3	27'		D	2.8	4.7	6.4	9.3	14.1		
23	4.4	26'		D	2.2	4.6	6.2	9.2	13.4		
24	3.7	26'		D	1.6	3.5	6.5	8.8	12.4		
25	5.0	27'			2.2	5.7	9.0	12.2	16.8		

T.  
M.

5.5	28	D	1.3	3.0	9.0	9.3	13.7
5.0	27	D	1.9	3.9	6.1	9.3	11.7

Tip moth attack was severe which made recognition of intercepts difficult.  
Time to take these measurements = about 4 hours

Madison Co

Plant # 9

Area # 1

Plot # 1

Loblolly

Total Height

(a) Mech. sample.

Av. Ht.

S.D.

C of Var. %

24.44

2.45

1002

(b) Dominants

24.92

2.44

9.69

Intercepts

(a) Mech. sample

13.64

1.15

8.43

(b) Dominants

13.75

1.16

8.436

# NORTH MISSISSIPPI PLANTATION SURVEY

County Madison  
 Plot # 2  
 By V. D. D.

Plant. No. 9  
 Date 7-25-46  
 Age 8 yrs. 5 months

Area 1  
 Species Loblolly

(1)  
21  
-  
(w)

No.	DBH in.	Total Height Ft.	Ave. Ft./yr.	Crown Class	Intercept Measurements						Remarks
					Feet						
					1	2	3	4	5	6	
1	2.7	(18)		I	2.3	3.9	5.0	6.0	(7.8)		Poor Tree
2	3.8	21		D	2.2	4.2	6.2	8.2	12.9		
3	2.7	19		D	2.6	4.6	6.6	10.0	12.7		Insect on
4	2.7	14		D	1.3	3.3	5.0	7.2	10.0		Tip moth next
5	4.4	23		D	1.2	3.5	5.4	7.9	10.3		Attack four
6	5.1	21		D	1.3	3.2	5.2	8.7	12.6		
7	2.1	(15)		I	2.0	4.2	6.7	8.6	9.6		In old g
8	3.0	22		D	1.5	2.5	5.6	7.1	10.9		
9	3.6	23		D	2.2	5.2	7.1	10.3	13.0		
10	4.8	24		D	2.9	7.7	8.6	10.3	13.5		
11	3.0	(17)		I	2.0	4.2	6.6	10.6	12.1		
12	2.6	(19)		I	2.3	4.9	6.2	8.9	10.9		Galled Spot
13	3.5	20		D	1.9	5.4	7.6	10.0	13.6		
14	4.1	2-3		D	5.0	6.2	8.5	12.1	15.9		
15	3.3	20		D	2.4	5.6	9.4	13.3	15.1		Tip Moth
16	2.8	(19)		I	2.9	4.5	6.2	9.0	11.3		" "
17	3.2	20		D	3.2	5.8	10.2	12.9	13.0		" "
18	4.0	24		D	1.3	4.1	6.9	10.2	13.3		
19	3.8	20		D	1.9	4.2	7.4	12.0	14.2		
20	3.9	21		D	2.9	5.4	2.7	12.0	14.5		
21	2.8	(19)		I	2.4	3.7	6.7	10.2	12.9		
22	4.6	24		D	2.6	7.3	10.1	13.0	15.4		
23	3.1	19		D	1.7	2.8	8.2	10.8	15.1		Gully
24	3.5	20		D	2.5	5.8	6.0	10.5	12.5		
25	3.7	21		D	2.4	5.0	7.2	11.0	14.0		
T.											
M.											
A	4.0	25		D	1.4	4.2	8.0	10.2	13.2		
B	4.1	23		D	2.5	7.8	8.3	12.6	15.9		
C	3.1	20		D	2.3	4.6	7.3	10.7	13.0		
D	4.5	22		D	2.2	3.2	6.2	7.5	13.9		
E	4.3	24		D	3.1	5.3	7.3	11.1	14.1		
F	4.2	24		D	2.2	5.2	8.3	12.2	15.2		

Burned  
Fall 1944

Barked  
Fall 1944

Remarks: 2 1/2 hours to measure 25 trees which were small and easy to measure. Effect of wooded field clearly evident on the stand with smaller trees, many of which are intermediate. Light green color of foliage. High tip moth attack.



Madison Co.

Plant # 9

Area 1

Plot # 2

Loblolly

A. Random Sam.  
Av. Ht.

20

Total Ht  
Stem. Det.

2.88

Coe. of Var o/o

11.4

B. Dominants

21.48

2.38

11.08

5 Year Intercept

A. Random Sam.

12.69

1.99  
3.315.68  
26.00

B. Dom.

13.54

1.56  
3.2611.52  
22.02

# NORTH MISSISSIPPI PLANTATION INVESTIGATION

Plantation #: 9. Date: 7-24-46. Area #: 2 of 2  
 Acres in Area: 15. # Sample plots: 1. Sample Plot #: 1  
 Species: Slash Pine. Spacing: 5 x 6 feet  
 Replanting data: No replanting

## SITE CHARACTERISTICS

Soil Type: clay loam Phase: \_\_\_\_\_ Catenae: \_\_\_\_\_  
 Utility Soil Class: \_\_\_\_\_ Sur. Soil Tex.: silty clay loam

## Classification of subsoil properties by Code Number

Drainage	Plasticity	Compactness	Color	Profile #	Depth to W.T.	pH	Structure
<u>2</u>	<u>3</u>	<u>3</u>			<u>X</u>	<u>5.0</u>	<u>6</u>

## CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet eros- ion class	Slope %	pH	Depth to Subsoil	Structure
<u>26 in.</u>	<u>3 in.</u>	<u>0</u>	<u>1</u>	<u>5.0</u>	<u>12 in.</u>	<u>6</u>

Topographical position: In drainage depression between ridges  
 Exposure: E - gentle slope

## Volunteer Growth

Species (with % composition): Rd gum (100)

Density: light. Origin: seedling. Competition: None

% Composition adjacent forest: \_\_\_\_\_

## Ground Cover

Density: heavy. Character: grass. Indicator Plants: sedge  
grass

## PLANTATION TREES

Survival %: \_\_\_\_\_ Ave. Ht. Growth/yr: \_\_\_\_\_ Feet.

Ave. d.b.h.: \_\_\_\_\_ Ave. Inter. Index: \_\_\_\_\_

Remarks: \_\_\_\_\_

District conservationist, S.E.S., Vicksburg

## NORTH MISSISSIPPI PLANTATION INVESTIGATION

Plantation #: 9. Date: 7-24-46. Area #: 1 of 2Acres in Area: 15. # Sample plots: 2. Sample Plot #: 2Species: Loblolly Pine. Spacing: 5 x 6 ft.Replanting data: No replanting

## SITE CHARACTERISTICS

Soil Type: comp. lo. silty clay loam Phase: \_\_\_\_\_ Catenae: \_\_\_\_\_Utility Soil Class: \_\_\_\_\_ Sur. Soil Tex.: silty clay loam

## Classification of subsoil properties by Code Number

Drainage	Plasticity	Compactness	Color	Profile #	Depth to W.T.	pH	Structure
<u>2</u>	<u>3</u>	<u>3</u>			<u>X</u>	<u>5.0</u>	<u>6</u>

## CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet erosion class	Slope %	pH	Depth to Subsoil	Structure
		<u>3</u>	<u>2 1/2</u>	<u>5.0</u>	<u>8"</u>	<u>6</u>

Topographical position: On ridge top - galled areaExposure: N.E. gentle slope

## Volunteer Growth

Species (with % composition): Persimmon (80) winged elm (5)black gum (10) wild plum (2) R. cedar (3)Density: Light. Origin: seedlings. Competition: None

% Composition adjacent forest: \_\_\_\_\_

## Ground Cover

Density: Medium. Character: Weeds. Indicator Plants: Bermudagrass + briar sedge

## PLANTATION TREES

Survival %: \_\_\_\_\_ Ave. Ht. Growth/yr: \_\_\_\_\_ Feet.

Ave. d.b.h.: \_\_\_\_\_ Ave. Inter. Index: \_\_\_\_\_

Remarks: \_\_\_\_\_

Identified by H.F. Walker  
District Conservationist SCS, D.C.



# NORTH MISSISSIPPI PLANTATION SURVEY

County Madison  
 Plot # 1  
 By J. M. & W. A.

Plant. No. 9  
 Date 7-24-46  
 Age growing season

Area 2  
 Species SLH

T. H. Riddell Farm - SLH + loblolly Pines

No.	DBH in.	Total Height Ft.	Ave. Ft/yr.	Crown Class	Intercept Measurements						Remarks
					Feet						
					1	2	3	4	5	6	
1	4.2	25		D	2.3	4.5	5.7	7.6	10.9		
2	4.7	27		D	4.2	3.1	4.4	7.3	12.9		
3	4.8	26		D	1.8	5.3	1.8	12.9	14.7		croneartium
4	5.2	27		D	6.3	4.2	6.2	9.6	14.3		
5	5.5	27		D	2.1	3.6	6.8	11.0	15.0		
6	5.3	26		D	2.1	4.9	6.9	9.5	14.0		
7	6.4	32		D	4.3	2.1	13.3	12.0	20.5		very thin
8	4.2	24		D	2.6	5.0	7.8	10.8	13.2		croneartium
9	4.7	26		D	3.3	6.3	2.2	10.9	14.2		
10	4.3	27		D	3.2	6.1	9.6	12.9	17.0		
11	4.7	27		D	2.9	2.4	5.1	7.4	12.6		
12	5.3	26		D	2.0	5.1	7.6	10.4	14.2		
13	4.3	22		D	2.4	4.7	7.5	11.2	15.0		
14	4.8	27		D	1.8	2.2	5.5	7.7	10.9		
15	2.7	19		D	1.4	3.3	7.9	6.6	10.0		
16	3.8	27		D	2.1	5.1	7.2	10.0	15.0		
17	4.0	24		D	2.7	4.9	6.5	9.1	12.4		
18	3.4	20		D	1.4	2.4	4.2	6.3	12.4		
19	4.9	27		D	1.6	2.6	6.1	8.0	10.9		croneartium
20	5.7	29		D	2.5	4.4	7.6	9.4	12.6		
21	4.3	26		D	1.9	4.6	6.1	7.9	11.6		
22	4.7	26		D	1.8	4.8	6.5		15.7		croneartium
23	6.0	27		D	2.1	3.7	7.0	9.1	12.8		
24	4.3	26		D	2.8	4.5	5.7	7.9	9.2		
25	5.0	25		D	3.3	6.2	2.4	10.3	13.8		
T.											
M.											

Good site. Trees thrifty + gaining fast.

A	6.0	30		D	4.2	7.0	7.1	11.8	16.0		
B	5.1	27		D	3.2	6.1	8.3	10.4	15.0		

Time figured on basis of 2 hrs + 20 min.

Madison Co.

Plant # 9

Area 2

Plot #1

Slash

Total Height

Av. Ht.

Stan. Dev.

Coe. of V. %

Mech. Sam.

26

2.74

10.54

Dominants

26.72

2.03

760

5 Year Intercept

Mech. - Sam.

13.5

2.51

18.59

Dom.

13.84

2.44

17.64

Plant #10

Plot #1

Slash Pine

Total Height

(a) Mechanical Sample

Av. Ht.

S. D.

C. of V %

2.76

4.555

16.50

(b) Dominants

29.52

2.71

9.18

(a) Mechanical Sample 5 Year Intercept

15.90

2.67

16.767

(b) Dominants

16.64

2.235

13.43

# Samples = 25



NORTH MISSISSIPPI PLANTATION INVESTIGATIONPLANTATION #: 10 . COUNTY: Madison . DATE: 7-26-46SOIL AREA: Brown loam . T,R,S,40: \_\_\_\_\_ . PLANTED Spring 1936OWNER: Mrs. Lulu Reese . OCCUPATION: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

SPECIES: Slash Pine . AGE: 10 <sup>growing</sup> ~~seasons~~ <sup>Restoration of</sup> . PURPOSE: stand <sup>1936</sup>TOTAL ACRES: 40 (4/46) . SPACING: 10 x 10 <sup>variable 6 x 6 ft.</sup> AGE OF STOCK: 1-0PLANTED BY: crew . PLANTING METHOD: Dibble <sup>S.O.S. nursery in Georgia</sup>SEED SOURCES: \_\_\_\_\_ . STOCK SOURCE: AlabamaFORMERLY CULTIV.: ✓ . PASTURED: \_\_\_\_\_ . OTHER: \_\_\_\_\_USE IMMED. PRIOR ABAND.: Pastured

# YRS. BETW. ABANDONMENT AND PLANTING: \_\_\_\_\_

SITE PREPARATION: NoneTREATMENT: NoneCHARACTER AND DEGREE OF EROSION: Moderate to heavy sheet.TOPOGRAPHY: LEVEL: \_\_\_\_\_ UNDULATING: X ROLLING: \_\_\_\_\_ HILLY: \_\_\_\_\_ PREC: \_\_\_\_\_

DAMAGE:

Agency	Degree of Damage		
	: Light	: Medium	: Heavy
Fire	: <u>None</u>	:	:
Insect	: <u>Tip moth</u>	:	:
Grazing	: <u>None</u>	:	:
Fungi	: <u>C. fusiform</u>	:	:
Other	:	:	:

Replanting Data: DATE: None . SPECIES: \_\_\_\_\_

# PER ACRE: \_\_\_\_\_ SOURCE: \_\_\_\_\_

PLANTING DATA: \_\_\_\_\_

REMARKS: \_\_\_\_\_

# NORTH MISSISSIPPI PLANTATION SURVEY

County Madison  
 Plot # 1  
 By J.M. & W.A.

Plant. No. 10  
 Date 7-26-46  
 Age 10 growing seasons

Area 1  
 Species Slab Pine

Gravelly silt loam - low - Reese Plantation

No.	DBH in.	Total Height Ft.	Ave. Ft./yr.	Crown Class	Intercept Measurements						Remarks
					Feet						
					1	2	3	4	5	6	
1	6.9	30		D	1.9	4.2	7.6	11.3	14.9		
2	7.3	32		D	3.2	6.5	10.6	16.3	22.9		
3	4.5	27		D	3.0	5.7	9.6	12.7	19.8		
4	5.8	33		D	2.5	7.0	10.5	14.6	18.6		
5	3.4	22		I	2.4	5.2	9.0	12.5	16.7		
6	3.5	12.3		I	2.6	5.5	7.9	11.3	15.2		
7	4.2	30		D	2.7	5.6	8.6	11.4	15.1		
8	7.2	32		D	2.4	6.1	9.7	13.3	17.2		
9	5.0	27		D	3.2	5.7	8.6	11.2	14.2		
10	6.7	31		D	3.5	6.1	9.7	13.2	16.2		
11	6.9	30		D	2.3	6.2	8.6	12.4	15.5		Cronectionum
12	4.9	26		D	2.8	5.3	7.9	12.7	16.9		
13	2.8	17.7		I	2.2	4.0	6.8	9.0	11.5		
14	6.4	34		D	2.0	4.2	7.4	13.7	19.0		Cronectionum
15	5.8	30		D	2.7	5.5	8.2	11.9	16.0		
16	5.4	30		D	3.0	6.0	8.4	12.2	16.2		
17	5.2	28		D	3.3	5.9	8.4	11.7	15.1		
18	4.5	27		D	2.8	4.7	8.6	11.9	14.2		
19	5.1	28		D	3.0	5.6	8.6	12.0	15.7		
20	5.1	27		D	3.0	4.9	7.6	10.8	14.4		
21	5.2	26		D	2.7	4.2	7.6	10.9	14.2		Cronectionum
22	2.2	15.1		I	1.6	3.0	4.9	7.6	9.8		
23	6.2	33		D	3.6	7.0	10.0	13.2	16.8		
24	5.0	26		D	1.8	7.6	8.6	12.0	16.2		Cronectionum
25	4.7	25		D	1.6	2.9	5.1	8.0	11.3		Cronectionum
T.											
M.											
A	6.8	34		D	2.6	3.4	10.0	14.1	17.9		Very vigorous
B	4.9	31		D	3.7	7.1	11.9	16.0	17.6		
C	6.3	32		D	3.6	7.0	10.7	14.2	17.2		
D	6.2	29		D	3.0	6.0	9.5	13.1	17.2		

Note: Except for largest trees, intercept - are very plain here. Took  $3\frac{1}{2}$  hours but had to walk longer since intercepts were taken on every 20th tree.

NORTH MISSISSIPPI PLANTATION INVESTIGATIONPlantation #: 10 . Date: 7-27-46 . Area #: 1 of 2Acres in Area: 4 . # Sample plots: 1 . Sample Plot #: 1Species: Slash Pine . Spacing: Variable - Mostly 6 x 6 ft.  
up to 8 x 4 ft.Replanting data: No replantingSITE CHARACTERISTICSSoil Type: Gravelly Silt loam Phase: \_\_\_\_\_ Catenae: \_\_\_\_\_

Utility Soil Class: \_\_\_\_\_ Sur. Soil Tex.: \_\_\_\_\_

## Classification of subsoil properties by Code Number

Drainage	Plasticity	Compactness	Color	Profile #	Depth to W.T.	pH	Structure
					X		

## CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet erosion class	Slope %	pH	Depth to Subsoil	Structure
		3	2.37% 4%			

Topographical position: Ridge TopExposure: Gentle slopes to SW, S. & SE.

## Volunteer Growth

Species (with % composition): Persimmon (90), Winged elm ( )R. Cedar ( ) R. Gum ( )Density: Light . Origin: Seedling . Competition: None

% Composition adjacent forest: \_\_\_\_\_

Ground CoverDensity: Heavy . Character: grass . Indicator Plants: sage grass, blackberries, green brier,PLANTATION TREES

Survival %: \_\_\_\_\_ . Ave. Ht. Growth/yr: \_\_\_\_\_ Feet.

Ave. d.b.h.: \_\_\_\_\_ . Ave. Inter. Index: \_\_\_\_\_

Remarks: \_\_\_\_\_



Species: Shortleaf

Plantation #11 Plot #1

Total Height

(A) All trees (24 tree sample)

<u>Av. Ht.</u>	<u>Stn. Dev.</u>	<u>Coeff. Var. %</u>
18.54	2.57	13.86

B. Dominants Only (24 tree sample)

17.50	1.96	10.05
-------	------	-------

---

5 Year Intercepts

A. All Trees

12.93	1.774	13.72
-------	-------	-------

B. Dominants Only

13.62	1.67	12.26
-------	------	-------

---

Same 5 Growing Seasons (Intercepts)

A. All Trees

14.65	2.43	16.59
-------	------	-------

B. Dominants

15.74	1.87	11.88
-------	------	-------

Plant # 11. Shortleaf. Intercept  
 m+5. for some calendar years.

Yrs. in intercept 41, 45, 43, 44, 45. Always.

Tree Intercepts

#	1	2	3	4	5
1	1.7	4.0	7.3	9.7	13.1
2	2.6	5.9	9.1	12.0	14.4
3	3.8	5.1	8.0	13.3	16.6
4	4.6	6.1	8.7	11.8	14.2
5	4.0	6.6	9.3	12.5	18.0
6	3.3	5.7	9.2	13.3	16.9
7	1.4	3.6	6.9	11.6	16.0
8	2.6	5.5	7.4	9.4	13.5
9	2.1	4.0	5.7	8.2	11.3
10	1.5	3.8	6.4	9.5	13.3
11	2.3	6.0	8.0	10.5	13.7
12	3.6	5.7	8.4	11.2	14.5
13	3.0	4.9	7.8	9.3	11.7
14	4.8	6.7	8.5	10.9	15.0
15	1.5	3.6	5.7	7.5	10.1
16	1.5	3.3	5.9	8.7	-
17	3.5	6.2	10.0	13.4	17.0
18	2.4	4.7	8.2	12.2	15.8
19	2.9	5.7	7.0	11.0	14.0
20	5.9	10.5	14.4	16.9	20.9
21	4.6	7.5	10.3	12.6	16.5
22	3.5	5.7	9.1	12.3	15.8
23	1.9	3.8	6.2	8.1	10.8
24	2.5	4.6	7.6	11.1	14.0
25	2.9	5.0	6.8	10.3	14.6

Extras.

A	2.6	4.7	7.0	10.9	14.2
B	2.4	4.8	8.1	10.3	14.8
C	2.7	6.3	7.4	11.8	14.8
D	5.1	9.4	12.6	16.1	18.2
E	2.9	5.2	9.5	12.9	15.9
F	4.5	6.4	10.6	13.6	17.2
G	5.6	7.5	10.7	14.4	18.0

NORTH MISSISSIPPI PLANTATION SURVEY

County Oktibbeha  
 Plot # 1  
 By J.M. + G.W.A.

Plant. No. 11  
 Date 8-7-46  
 Age \_\_\_\_\_

Area 1 of 1  
 Species Short leaf  
L.V. Area

No.	DBH in.	Total Height Ft.	Ave. Ft/yr.	Crown Class	Intercept Measurements						Remarks
					Feet						
					1	2	3	4	5	6	
1	3.8	19		D	1.7	4.0	7.3	9.7	13.1		
2	5.0	24		D	2.4	5.9	7.1	10.0	14.4		
3	4.0	20		D	2.9	3.8	5.1	8.0	13.3		
4	3.9	19		D	1.6	4.6	6.1	7.7	11.8		Longest in row
5	4.3	22		D	2.2	4.0	6.6	9.3	12.5		
6	4.0	20		D	1.2	3.3	5.7	7.2	13.3		
7	4.3	21		D	1.4	3.6	6.9	11.6	16.0		
8	3.2	17		D	2.6	5.5	7.4	9.4	13.5		
9	2.6	(15)		I	2.1	4.0	5.7	8.2	11.2		
10	3.0	(17)		I	1.5	3.8	6.4	9.5	13.5		
11	4.3	18		D	2.3	6.0	8.0	10.6	13.7		
12	4.7	18		D	1.6	3.6	5.7	8.4	11.2		
13	2.2	(15)		I	3.0	4.9	7.8	9.3	11.7		
14	3.2	19		D	2.4	4.8	6.7	7.5	10.9		
15	3.0	(15)		I	1.5	3.6	5.7	7.5	10.1		
16	2.0	(13)	left out	I	1.5	3.3	5.9	7.9	—		only 4 years to go
17	4.9	21		D	2.2	5.5	6.2	10.0	13.4		
18	4.0	18		D	2.4	4.7	8.2	12.2	15.8		
19	3.0	(16)		I	2.9	5.7	9.0	11.0	14.0		
20	5.0	23		D	2.7	5.7	10.5	14.4	16.9		
21	4.2	19		D	2.6	4.6	7.5	10.3	13.6		
22	4.0	18		D	1.8	3.5	5.7	7.1	12.3		
23	2.1	(14)		I	1.9	3.8	6.2	8.1	10.8		Badly suppressed
24	4.0	18		D	2.5	4.6	7.6	11.1	14.0		
25	3.3	17		D	1.6	2.9	5.0	6.8	10.3		

T.											
M.											
A	3.8	17		D	2.4	4.7	7.0	10.4	11.2		
B	4.2	17		D	2.4	4.8	8.1	10.3	11.8		
C	4.5	18		D	2.7	6.3	7.4	12.8	14.8		
D	4.2	22		D	2.9	5.8	9.4	12.6	16.1		
E	3.1	(19)		D	2.9	5.2	9.5	12.9	15.9	no.	
F	3.8	20		D	2.9	4.5	6.4	11.6	13.6		
G	4.3	21		D	2.2	5.6	7.5	10.7	14.4		

Intercepts  
 seem less  
 plain in  
 shortleaf  
 than in  
 loblolly  
 except  
 when the  
 later gets  
 very heavily  
 attached  
 with tip  
 missing

Volunteer loblolly of approximately same age as planted shortleaf are longer, and more vigorous, in many cases over topping and repressing planted shortleaf.

Ave. diam. of dom. = 4.14 in.



NORTH MISSISSIPPI PLANTATION INVESTIGATIONPlantation #: 11. Date: 2-7-46. Area #: 1 of \_\_\_\_\_Acres in Area: 20. # Sample plots: 1. Sample Plot #: \_\_\_\_\_Species: Short leaf. Spacing: 5x6 ft.Replanting data: No replantingSITE CHARACTERISTICS

Soil Type: \_\_\_\_\_ Phase: \_\_\_\_\_ Catenae: \_\_\_\_\_

Utility Soil Class: \_\_\_\_\_ Sur. Soil Tex.: Fine sandy loam

## Classification of subsoil properties by Code Number

Strong mottling begins at 18" Depth to

Drainage	Plasticity	Compactness	Color	Profile #	W.T.	pH	Structure
					X	4.5	10

## CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet erosion class	Slope %	pH	Depth to Subsoil	Structure
18"	None left	3	1	4.5	4"	7

Topographical position: level stretch of UplandExposure: None

## Volunteer Growth

Species (with % composition): Red maple (9) Persimmon (10)Winged elm (5) loblolly pine (80) black gum (2)Density: light. Origin: seedling. Competition: light for loblolly only

% Composition adjacent forest: \_\_\_\_\_

Ground Cover

Density: Med.. Character: Weeds. Indicator Plants: Sedge  
grass: golden rod, daisy, blackberry, green briar,  
red weed, dandelion

PLANTATION TREES

Survival %: \_\_\_\_\_ Ave. Ht. Growth/yr: \_\_\_\_\_ Feet.

Ave. d.b.h.: \_\_\_\_\_ Ave. Inter. Index: \_\_\_\_\_

Remarks: \_\_\_\_\_

## NORTH MISSISSIPPI PLANTATION INVESTIGATION

PLANTATION #: 11 . COUNTY: Oktibbeha . DATE: 8-7-46  
 SOIL AREA: Flintwood . T, R, S, 40: T1N, R1E . PLANTED Apr. 1937  
 OWNER: Wild life service . OCCUPATION: Land management  
 ADDRESS: Hghts. Bluff Lake, Noxubee Co.  
 SPECIES: Short leaf pine . AGE: 10 . PURPOSE:   
 TOTAL ACRES: 500-600 planting . SPACING: Rows approx. 5' . AGE OF STOCK: 1-0  
 PLANTED BY: crews . PLANTING METHOD: Dibble  
 SEED SOURCES:  . STOCK SOURCE: S.C.S nurseries  
 FORMERLY CULTIV.: ✓ . PASTURED:  . OTHER:   
 USE IMMED. PRIOR ABAND.: Row crop cultivation  
 # YRS. BETW. ABANDONMENT AND PLANTING: None  
 SITE PREPARATION: None  
 TREATMENT: None  
 CHARACTER AND DEGREE OF EROSION: Sheet  
 TOPOGRAPHY: LEVEL:  UNDULATING: ✓ ROLLING:  HILLY:  PREC:   
 DAMAGE:

Agency	Degree of Damage		
	Light	Medium	Heavy
Fire ✓	light + spotty		
Insect	very		heavy early
			Tip moth
Grazing			
Fungi	Q. fusiformis	X	
Other			

Replanting Data: DATE: None . SPECIES:

# PER ACRE:  SOURCE:

PLANTING DATA:

REMARKS:

NORTH MISSISSIPPI PLANTATION INVESTIGATIONPlantation #: 12. Date: 8-7-46. Area #: 1 of 1Acres in Area: 3. # Sample plots: 1. Sample Plot #: 1Species: Loblolly. Spacing: 6x6 ft.Replanting data: No replantingMIP - Soil exam.  
✓ chicks.SITE CHARACTERISTICSSoil Type: Norfolk fine sandy loam Phase: \_\_\_\_\_ Catenae: \_\_\_\_\_Utility Soil Class: \_\_\_\_\_ Sur. Soil Tex.: Fine sandy loam

## Classification of subsoil properties by Code Number

Drainage	Plasticity	Compactness	Color	Profile #	Depth to W.T.	pH	Structure
					<u>X</u>	<u>5.0</u>	

## CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet eros-ion class	Slope %	pH	Depth to Subsoil	Structure
	<u>None</u>	<u>3</u>	<u>1</u>	<u>5.0</u>		

Topographical position: Upland-flat ridge topExposure: None - level

## Volunteer Growth

Species (with % composition): Loblolly Pine ( ) ShortleafPine ( ) Red maple ( ) Persimmon ( )Density: light. Origin: Seed. Competition: None

% Composition adjacent forest: \_\_\_\_\_

Ground CoverDensity: Very light. Character: weed. Indicator Plants: greenhair (similar) - ragweedPLANTATION TREES

Survival %: \_\_\_\_\_ Ave. Ht. Growth/yr: \_\_\_\_\_ Feet.

Ave. d.b.h.: \_\_\_\_\_ Ave. Inter. Index: \_\_\_\_\_

Remarks: \_\_\_\_\_



## NORTH MISSISSIPPI PLANTATION INVESTIGATION

PLANTATION #: 12 . COUNTY: Okfuskee . DATE: 8-7-46  
 SOIL AREA: Flintwoods . T, R, S, 40: T1N R1E . PLANTED Apr. 1937  
 U.S. Dept. Interior, Fish & Wildlife Service . OWNER: Wildlife Service . OCCUPATION: Land management  
 ADDRESS: Hd qts. Bluff Lake, Nowata Co.  
 SPECIES: Loblolly Pine . AGE: 95.5 . PURPOSE: \_\_\_\_\_  
 TOTAL ACRES: 3 . SPACING: 6x6 ft . AGE OF STOCK: 1-0  
 PLANTED BY: S.C.S. crews . PLANTING METHOD: Dibble  
 SEED SOURCES: \_\_\_\_\_ . STOCK SOURCE: S.C.S. nurseries  
 FORMERLY CULTIV.: ✓ . PASTURED: \_\_\_\_\_ . OTHER: \_\_\_\_\_  
 USE IMMED. PRIOR ABAND.: Rice Crop Cultiv.  
 # YRS. BETW. ABANDONMENT AND PLANTING: None  
 SITE PREPARATION: None  
 TREATMENT: None  
 CHARACTER AND DEGREE OF EROSION: Sheet  
 TOPOGRAPHY: LEVEL: \_\_\_\_\_ UNDULATING: ✓ ROLLING: \_\_\_\_\_ HILLY: \_\_\_\_\_ PREC: \_\_\_\_\_  
 DAMAGE:

Agency	Degree of Damage		
	: Light	: Medium	: Heavy
Fire	: <u>✓</u>	:	:
Insect	: <u>Tip moth</u>	: <u>2-5/100</u>	:
Grazing	:	:	:
Fungi	: <u>C. fusiforme</u>	: <u>✓</u>	:
Other	:	:	:

Replanting Data: DATE: None . SPECIES: \_\_\_\_\_

# PER ACRE: \_\_\_\_\_ SOURCE: \_\_\_\_\_

PLANTING DATA: \_\_\_\_\_

REMARKS: \_\_\_\_\_

# NORTH MISSISSIPPI PLANTATION SURVEY

County OKeefe  
 Plot # 1  
 By J.M. + G.W.A.

Plant. No. 12  
 Date 8-12-46  
 Age           

Area 1  
 Species Loblolly Pine

L.V. Area - near Patterson Lake

No.	DBH in.	Total Height Ft.	Ave. Ft/yr.	Crown Class	Intercept Measurements						Remarks
					Feet						
					1	2	3	4	5	6	
1	4.5	27		D	2.4	5.2	7.2	11.6	16.4		
2	6.2	28		D	2.4	4.7	11.7	17.7	17.0		
3	5.1	27		D	2.0	4.8	8.1	13.7	16.4		1144
4	4.4	28		D	2.4	5.3	8.2	11.3	15.5	20.0	1139-43 mil.
5	4.6	27		D	4.3	7.7	11.6	15.6	17.4		
6	4.7	27		D	2.7	7.4	11.5	13.1	16.7		
7	4.3	24		D	3.5	6.9	7.4	12.3	15.2		
8	4.1	24		D	2.6	6.7	10.5	14.6	18.0		
9	4.2	27		D	3.1	6.1	8.6	14.3	17.2		
10	3.7	26		D	3.6	6.4	11.2	14.8	16.4		
11	2.5	25		D	2.9	6.0	7.0	12.8	16.1		
12	4.8	25		D	3.5	6.4	11.7	15.2	17.8		
13	4.7	27		D	3.2	5.5	7.0	13.4	16.1		
14	3.6	27		D	2.6	5.8	10.2	13.7	18.0		1145
15	2.1	20		I	2.4	6.3	10.0	12.8	15.4		2.0 = 1940
16	3.0	23		I	3.0	7.0	11.5	14.5	17.1		2.0 = 1940
17	3.7	25		D	2.8	6.4	9.3	13.7	12.4		
18	3.7	25		D	3.1	5.6	11.3	15.3	17.2		
19	4.7	28		D	3.2	6.2	11.3	15.5	18.8		
20	3.3	23		D	2.3	5.2	8.4	11.5	15.4		
21	3.0	19		D	2.3	4.4	7.7	10.7	13.7		
22	4.2	25		D	2.4	4.8	8.8	13.4	17.3		
23	4.0	25		D	2.4	5.9	7.8	13.7	16.9		
24	4.0	25		D	2.9	6.0	7.7	13.9	17.6		
25	4.2	23		D	2.2	5.4	7.3	12.7	15.0		
T.					351'						
M.											1145

Extra D-class trees - 1945											
A	3.7	23		D	2.0	6.3	9.6	14.5	17.2		(1940-2.4)
B	4.3	26		D	3.1	6.0	8.3	11.7	15.3		

Ave. Diameter - 4.21 inches (dom. only)

Int. plan on this plantation all trees, except those mentioned as different have years 1940-44 in 5-year intercept.

Planted in 1939 had a short  $\phi$  but 1938 growth was as large as most. Intercepts started with 1940 so there was not much loss before getting to D.B.H.

# North Mississippi Plantation Survey

OKTibbeha Co.

Plantation # 12

Area # 1

Sample Plot # 1

	Mean	Stand Dev.	Coef. Var. %	# Samples
<u>Total Height</u>				
Mechanical Sample	25.20	2.41	9.56	25
All Dominants	25.42	2.10	8.24	25
<u>5 Year Intercepts</u>				
Mechanical Sample	17.24	1.55	8.99	25
All Dominants	17.19	1.59	9.13	25



NORTH MISSISSIPPI PLANTATION SURVEY

County Nixabee

Plot # 1

By J.M. & G.W.A.

Plant. No. 13

Date 7-8-46

Age 8 6/11

Area 1011

Species Slash Pine

R. L. Anderson, Jr.

[illegible]

NORTH MISSISSIPPI PLANTATION INVESTIGATION

Plantation #: 13 . Date: 7-8-46 . Area #: 1 of 1  
 Acres in Area: 2 . # Sample plots: 1 . Sample Plot #: 1  
 Species: Slash Pine . Spacing: 6 x 6 ft. irregular  
 Replanting data: No replanting

SITE CHARACTERISTICS

Soil Type: Norfolk fine sandy loam Phase: \_\_\_\_\_ Catenae: \_\_\_\_\_  
 Utility Soil Class: \_\_\_\_\_ Sur. Soil Tex.: Fine sandy loam

## Classification of subsoil properties by Code Number

Drainage	Plasticity	Compactness	Color	Profile #	Depth to W.T.	pH	Structure
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

## CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet erosion class	Slope %	pH	Depth to Subsoil	Structure
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Topographical position: level low

Exposure: None (Flat)

## Volunteer Growth

Species (with % composition): Red gum (90) winged elm (10)

Density: light . Origin: Seedlings . Competition: \_\_\_\_\_

% Composition adjacent forest: loblolly 80 90 . So. Red Oak 10 90

Post oak 5 90 . Hickory - 5 10

Ground Cover

Density: heavy . Character: grass . Indicator Plants: \_\_\_\_\_

Blackberry

PLANTATION TREES

Survival %: \_\_\_\_\_ . Ave. Ht. Growth/yr: \_\_\_\_\_ Feet.

Ave. d.b.h.: \_\_\_\_\_ . Ave. Inter. Index: \_\_\_\_\_

Remarks: \_\_\_\_\_

## NORTH MISSISSIPPI PLANTATION INVESTIGATION

PLANTATION #: 13 . COUNTY: Norfolk . DATE: 7-8-46SOIL AREA: Plum Prairie . T,R,S,40: T3N R1E . PLANTED Spring 1938OWNER: R.L. Anderson, Jr. . OCCUPATION: Farmer & Store Owner

ADDRESS: \_\_\_\_\_

SPECIES: Slash Pine . AGE: 9 G.S. . PURPOSE: ReforestationTOTAL ACRES: 1/2 Acre . SPACING: 10' x 6' . AGE OF STOCK: 1-0PLANTED BY: S.O.S. - C.E.C. . PLANTING METHOD: DibbleSEED SOURCES: \_\_\_\_\_ . STOCK SOURCE: S.O.S. NurseryFORMERLY CULTIV.: 20 years . PASTURED: lightly . OTHER: \_\_\_\_\_USE IMMED. PRIOR ABAND.: idle for 20 years# YRS. BETW. ABANDONMENT AND PLANTING: 20SITE PREPARATION: NoneTREATMENT: None

CHARACTER AND DEGREE OF EROSION: \_\_\_\_\_

TOPOGRAPHY: LEVEL: \_\_\_\_\_ UNDULATING: ☒ ROLLING: \_\_\_\_\_ HILLY: \_\_\_\_\_ PREC: \_\_\_\_\_

DAMAGE:

Agency	Degree of Damage		
	: Light	: Medium	: Heavy
Fire	:	:	:
Insect	:	:	:
Grazing	:	:	:
Fungi	:	:	:
Other	:	:	:

Replanting Data: DATE: None . SPECIES: \_\_\_\_\_

# PER ACRE: \_\_\_\_\_ SOURCE: \_\_\_\_\_

PLANTING DATA: \_\_\_\_\_

REMARKS: \_\_\_\_\_



# North Miss. Plantation Survey

Slush Pine  
Noxubee Co.

Plantation #13

Area #1 of 1

Sample Plot #1

	Mean	Stand Dev.	Coef. Var. %	# Samples
Total Height.				
Mechanical Sample	-	-	-	-
All Dominants	31.36	4.82	15.37	25
<u>5 Yr. Intersects</u>				
Mechanical Sample	-	-	-	-
All Dominants	19.22	1.60	8.32	25

NORTH MISSISSIPPI PLANTATION SURVEY

County Noxubee  
Plot # 1  
By J.M. & G.W.A.

Plant. No. 14  
Date 7-8-46  
Age 9 G.S.

Area 1  
Species Loblolly Pine

Fanny Flora Place

No.	DBH in.	Total Height Ft.	Ave. Ft./yr.	Crown Class	Intercept Measurements						Remarks
					Feet						
					1	2	3	4	5	6	
1	4.1	29		D	2.4	6.9	10.5	15.0	19.5		
2	5.4	32		D	2.0	7.3	9.4	12.4	17.4		
3	6.0	34		D	4.0	6.6	11.2	14.3	17.6		
4	3.4	(34)		I	3.4	6.2	10.4	13.8	17.7		Extra below
5	4.4	27		D	3.0	7.3	11.4	13.2	16.6		
6	4.5	31		D	2.9	6.9	10.6	13.5	16.6		
7	4.4	33		D	4.0	7.4	11.5	16.0	20.3		
8	5.6	34		D	3.7	8.0	11.5	15.6	19.9		
9	4.6	31		D	2.5	6.3	10.2	14.6	17.7		
10	5.7	32		D	3.4	8.6	12.6	15.0	18.2		
11	4.0	31		D	2.4	6.0	11.0	15.6	20.6		
12	4.3	29		D	3.3	6.6	10.9	13.5	17.7		
13	4.3	30		D	2.9	6.7	11.1	13.1	16.9		
14	4.6	29		D	4.3	8.5	11.7	14.8	17.7		Cronartium
15	4.0	29		D	2.7	7.3	12.4	15.5	19.5		
16	5.0	32		D	2.9	7.1	11.2	16.4	20.7		
17	5.3	32		D	3.5	7.3	12.1	17.0	21.0		
18	5.6	31		D	3.5	7.0	11.8	15.4	17.4		
19	5.1	33		D	3.5	7.2	14.9	17.3	21.4		
20	5.0	31		D	2.7	6.9	10.6	15.0	20.3		
21	4.2	31		D	2.7	7.7	11.5	16.2	19.6		
22	3.3	28		D	2.5	3.9	5.7	11.4	15.5		
23	4.3	30		D	3.4	7.6	11.9	15.5	17.0		Cronartium
24	5.3	30		D	3.4	7.9	12.4	15.9	21.2		
25	3.2	33		D	4.0	7.6	11.8	16.8	21.9		Cronartium
T.											
M.											

We have been measuring 1937 - 1943 inclusive. The point for all about 2-3 ft. from the top & is in good agreement of orthodox method and our seasonal concept.

Extra 'D' class tree.  
A. 4.7 31 D 3.3 6.5 12.0 16.1 17.8

Average diam. of dominants = 4.76 inches.

## NORTH MISSISSIPPI PLANTATION INVESTIGATION

PLANTATION #: 14 . COUNTY: Norwhee . DATE: 7-8-46  
 SOIL AREA: Sec. 23 . T, R, S, 40: BN, R 16 E . PLANTED Spr. 1937  
 OWNER: Miss. Fannie Florio . OCCUPATION: Teacher  
 ADDRESS: Shugwaink, Miss.  
 SPECIES: Loblolly Pine . AGE: 9 G.S. . PURPOSE: reforestation of old field  
 TOTAL ACRES: 4 . SPACING: 6x6 ft. . AGE OF STOCK: 1-0  
 PLANTED BY: S.C.S. - C.C.C. . PLANTING METHOD: Dibble  
 SEED SOURCES:                      . STOCK SOURCE: S.C.S.  
 FORMERLY CULTIV.: ✓ . PASTURED:                      . OTHER:                       
 USE IMMED. PRIOR ABAND.: Cultiv. to corn & cotton  
 # YRS. BETW. ABANDONMENT AND PLANTING: None  
 SITE PREPARATION: None  
 TREATMENT: None  
 CHARACTER AND DEGREE OF EROSION: sheet  
 TOPOGRAPHY: LEVEL:                      UNDULATING: ✓ ROLLING:                      HILLY:                      PREC:                       
 DAMAGE:

Agency	Degree of Damage		
	: Light	: Medium	: Heavy
Fire	:	:	: 2-5 years
Insect	: Tip moth	:	:
Grazing	:	:	:
Fungi	: <i>crumetium fusiforme</i>	: X about 7/10 infected	:
Other	:	:	:

Replanting Data: DATE: None . SPECIES:                     

# PER ACRE:                      SOURCE:                     

PLANTING DATA:                     

REMARKS: approx. 2,500 trees dead from crumetium.



NORTH MISSISSIPPI PLANTATION INVESTIGATIONPlantation #: 14 . Date: 7-8-46 . Area #: 1 of 1Acres in Area: 4 . # Sample plots: 2 . Sample Plot #: 1Species: Loblolly Pine . Spacing: 6 x 6 ft.Replanting data: No replantingSITE CHARACTERISTICSSoil Type: Phy. Fines Phase: \_\_\_\_\_ Catenae: \_\_\_\_\_Utility Soil Class: \_\_\_\_\_ Sur. Soil Tex.: Fine Sandy loam

## Classification of subsoil properties by Code Number

Drainage	Plasticity	Compactness	Color	Profile #	Depth to W.T.	pH	Structure

## CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet erosion class	Slope %	pH	Depth to Subsoil	Structure
<u>20 in.</u>						

Topographical position: Upland - on a summit + N + S slopes of riseExposure: gentle N + S slopes to flat

## Volunteer Growth

Species (with % composition): \_\_\_\_\_

Density: None . Origin: \_\_\_\_\_ . Competition: \_\_\_\_\_

% Composition adjacent forest: \_\_\_\_\_

Ground Cover Only heavy needle mat.Density: None . Character: \_\_\_\_\_ . Indicator Plants: \_\_\_\_\_PLANTATION TREES

Survival %: \_\_\_\_\_ . Ave. Ht. Growth/yr: \_\_\_\_\_ Feet.

Ave. d.b.h.: \_\_\_\_\_ . Ave. Inter. Index: \_\_\_\_\_

Remarks: \_\_\_\_\_

NORTH MISSISSIPPI PLANTATION INVESTIGATIONPlantation #: 14. Date: 7-9-46. Area #: 1 of 1Acres in Area: 4. # Sample plots: 2. Sample Plot #: 2Species: Loblolly Pine. Spacing: 6x6 ft.Replanting data: No replantingSITE CHARACTERISTICS

Soil Type: \_\_\_\_\_ Phase: \_\_\_\_\_ Catenae: \_\_\_\_\_

Utility Soil Class: \_\_\_\_\_ Sur. Soil Tex.: \_\_\_\_\_

## Classification of subsoil properties by Code Number

Drainage	Plasticity	Compactness	Color	Profile #	Depth to W.T.	pH	Structure
5	5	5				5.0	6

## CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet erosion class	Slope %	pH	Depth to Subsoil	Structure
20 in.	None		20/0	5.0		6

Topographical position: Same as plot 1Exposure: Same as plot #1

## Volunteer Growth

Species (with % composition): Persimmon (30) bl. gum (10), red gum (10) loblolly pine (50)Density: light. Origin: seed. Competition: None

% Composition adjacent forest: \_\_\_\_\_

Ground CoverDensity: light. Character: \_\_\_\_\_. Indicator Plants: \_\_\_\_\_Dew berry, black berryPLANTATION TREES

Survival %: \_\_\_\_\_ Ave. Ht. Growth/yr: \_\_\_\_\_ Feet.

Ave. d.b.h.: \_\_\_\_\_ Ave. Inter. Index: \_\_\_\_\_

Remarks: \_\_\_\_\_

# NORTH MISSISSIPPI PLANTATION SURVEY

County Noxubee  
 Plot # 2  
 By V.M. & W.A.

Plant. No. 14  
 Date 7-9-46  
 Age 7 G.S.

Area 1  
 Species lobolly Pine  
S.O.S. planting  
Spring 37

Miss Fannie Flood Place

No.	DBH in.	Total Height Ft.	Ave. Ft/yr.	Crown Class	Intercept Measurements						Remarks
					Feet						
					1	2	3	4	5	6	
1	6.4	35		D	24	7.8	8.4	17.6	21.6		
2	5.0	33		D	27	6.5	10.5	15.0	19.8		
3	4.8	32		D	3.5	7.2	10.2	14.7	19.6	23.0	
4	5.3	31		D	2.9	1.2	11.2	15.4	19.4		
5	5.7	31		D	3.3	7.7	10.8	15.6	20.0		
6	6.0	32		D	2.7	7.4	11.4	16.2	20.8		
7	3.9	28		D	2.3	4.5	8.3	14.4	19.2		
8	3.6	27		D	3.2	6.2	9.0	13.5	16.9		
9	6.0	31		D	3.6	7.5	11.8	16.0	22.5		
10	4.5	34		D	2.5	5.1	7.2	13.6	17.9		
11	4.7	30		D	2.7	6.3	10.2	13.6	16.8		
12	4.8	32		D	2.9	6.1	8.1	15.5	19.7		
13	5.2	32		D	4.0	7.7	11.8	15.1	18.3		
14	4.3	28		D	-	3.4	5.9	10.6	14.9	18.7	
15	4.5	31		D	3.5	7.6	11.2	15.9	18.3		
16	4.3	27		D	3.0	6.0	10.0	14.0	18.0		Cronquistium
17	5.2	33		D	2.6	6.0	10.7	14.6	19.2		
18	4.1	31		D	3.3	7.3	11.2	14.9	17.8		
19	4.8	30		D	3.4	7.0	10.8	15.3	19.2		
20	5.0	30		D	4.0	8.0	11.3	14.7	17.5		Cronquistium
21	5.3	31		D	4.2	7.8	13.3	11.6	21.4	1940-47	
22	5.7	33		D	3.8	7.5	12.6	17.1	22.0		
23	4.9	31		D	1.7	5.7	7.4	14.5	18.9		
24	4.3	32		D	3.2	7.8	11.4	16.2	17.8		
25	4.4	30		D	2.7	7.0	12.3	17.0	20.2		
					39	40	41	42	43	44	
T.											
M.											

Av. diam. of dominants = 4.70 in.



# North Miss. Plantation Survey

Noxubee Co.

Plantation #14

Acre #1

Sample Plot #1

	Mean	Stand. Dev.	Coeff. Var. %	# Samples
<u>Total Height</u>				
Mechanical Sample	30.64	2.27	7.41	25
All Dominants	30.92	1.80	5.82	"
<u>5 Year Intercepts</u>				
Mechanical Sample	17.13	1.73	9.04	"
All Dominants	17.22	1.71	8.90	"

Plantation #14

Acre #1

Sample Plot #2

Total Height

Mechanical Sample	-	-	-	-
All Dominants	30.88	2.49	8.06	25

5 Year Intercepts

Mechanical Sample	-	-	-	-
All Dominants	16.96	1.75	9.23	25

## NORTH MISSISSIPPI PLANTATION INVESTIGATION

PLANTATION #: 15 . COUNTY: Winston . DATE: 8-13-46  
 SOIL AREA: Sand & clay T16N, R12E, Sec. 5  
Hills . T, R, S, 40: NW14, NE14 . PLANTED Fall 1939  
 OWNER: Sail Conser. Service . OCCUPATION: Land Management  
 ADDRESS: Hghts. Cheatw Lake - Cheatw Co.  
 SPECIES: Loblolly Pine . AGE: 6 G.S. . PURPOSE: Reforest aband. Field  
 TOTAL ACRES: 7 . SPACING: 6 x 6 ft. AGE OF STOCK: 1-0  
 PLANTED BY: Local men in S.C. planting Crews . PLANTING METHOD: Dibble  
 SEED SOURCES: \_\_\_\_\_ . STOCK SOURCE: S.C.S.  
 FORMERLY CULTIV.: ✓ . PASTURED: \_\_\_\_\_ . OTHER: \_\_\_\_\_  
 USE IMMED. PRIOR ABAND.: Row crop cult.  
 # YRS. BETW. ABANDONMENT AND PLANTING: None  
 SITE PREPARATION: None  
 TREATMENT: None  
 CHARACTER AND DEGREE OF EROSION: Sheet-medium  
 TOPOGRAPHY: LEVEL: \_\_\_\_\_ UNDULATING: \_\_\_\_\_ ROLLING: \_\_\_\_\_ HILLY: X PREC: \_\_\_\_\_  
 DAMAGE:

Agency	Degree of Damage		
	Light	Medium	Heavy
Fire	: <u>None</u>	:	:
Insect	: <u>Tip moth</u>	: <u>✓</u>	:
Grazing	:	:	:
Fungi	: <u>Cronecium fusiforme</u>	: <u>✓</u>	:
Other	:	:	:

Replanting Data: DATE: None . SPECIES: \_\_\_\_\_

# PER ACRE: \_\_\_\_\_ SOURCE: \_\_\_\_\_

PLANTING DATA: \_\_\_\_\_

REMARKS: \_\_\_\_\_

## NORTH MISSISSIPPI PLANTATION INVESTIGATION

Survival of Loblolly  
in previous page.

10 10  
8 10  
9 8  
9 10  
9 10  
9 9  
10 9  
10 10  
10 10  
9 10

Plantation # 5  
Survival in 10  
by groups of 10  
planting spaces in all.

Agency  
Type of Damage  
Heavy  
Medium  
Light  
Other  
Replanting Data: DATE: SPECIES:  
PER ACRE: SOURCE:  
PLANTING DATA:  
REMARKS:



NORTH MISSISSIPPI PLANTATION INVESTIGATIONPlantation #: 15. Date: 8-13-46. Area #: 1 of 1Acres in Area: 7. # Sample plots: 1. Sample Plot #: 1Species: loblolly pine. Spacing: 6 x 6 ft.Replanting data: No replantingSITE CHARACTERISTICSSoil Type: Orangeburg fine sandy loam Phase: \_\_\_\_\_ Catenae: \_\_\_\_\_Utility Soil Class: \_\_\_\_\_ Sur. Soil Tex.: Fine sandy loam

Classification of subsoil properties by Code Number

Drainage	Plasticity	Compactness	Color	Profile #	W.T.	pH	Structure
4	4	4				4.5	7

CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet erosion class	Slope %	pH	Depth to Subsoil	Structure
None	None	2	3	5.0	6"	6

Topographical position: Ridgetop between valleysExposure: None - levelVolunteer GrowthSpecies (with % composition): Short leaf (60) loblolly (20)Persimmon (20)Density: light. Origin: seed. Competition: None% Composition adjacent forest: short leaf (80) loblolly (10)Small red oak (5), post oak (5)Ground CoverDensity: Heavy. Character: Grass. Indicator Plants: sagegrass, blackberryPLANTATION TREES

Survival %: \_\_\_\_\_ Ave. Ht. Growth/yr: \_\_\_\_\_ Feet.

Ave. d.b.h.: \_\_\_\_\_ Ave. Inter. Index: \_\_\_\_\_

Remarks: \_\_\_\_\_

# NORTH MISSISSIPPI PLANTATION SURVEY

County Winston  
 Plot # 1  
 By G.A. J.M.

Plant. No. 15  
 Date Aug 13  
 Age 6

Area 1  
 Species Loblolly

No.	DBH in.	Total Height Ft.	Ave. Ft./yr.	Crown Class	Intercept Measurements						Remarks
					1	2	3	Feet	4	5	
1	4.3	19		D	4.5	6.3	12.0	15.6			It took 1 hr. 45 min. to take 25 inter- cepts (14) 11.11 heights with tape.
2	4.1	19		D	8.0	7.7	11.8	15.2			
3	3.4	17		D	2.2	6.4	9.7	13.9			
4	3.8	18		"	2.5	6.3	9.2	14.7			
5	3.7	16		"	2.3	6.8	10.4	13.8			
6	3.7	16		"	3.1	6.5	11.4	13.3			
7	4.2	17		"	2.6	6.0	10.8	14.4			
8	4.0	17		"	3.5	7.7	10.9	15.0			
9	3.4	18		"	2.3	3.7	7.3	14.4			
10	4.0	20		"	3.6	9.6	12.0	16.6			
11	2.8	20		"	3.7	7.5	12.6	17.1			
12	4.3	20		"	4.0	6.2	12.3	16.6			
13	3.8	21		"	3.4	8.2	12.2	17.6			
14	3.4	20		"	3.7	8.5	10.8	17.0			
15	3.9	21		"	4.2	7.1	12.1	12.6			
16	3.7	21		"	3.4	7.3	12.1	17.6			
17	4.0	20		"	3.6	2.7	12.9	16.9			
18	3.6	22		"	4.2	9.7	14.1	19.8			
19	3.8	17		"	3.6	7.0	11.0	15.0			
20	4.6	17		"	3.8	7.9	11.4	15.3			
21	3.3	15		"	3.7	6.6	10.2	12.5			
22	3.8	19		"	3.8	8.5	11.2	16.8			
23	3.1	15		"	3.2	6.6	9.7	12.5			
24	4.6	20		"	4.9	7.5	13.7	17.7			
25	3.7	17		"	2.1	6.9	10.6	14.4			
T.											
M.											

Remarks: Data of planting between fall of 39 and Spring of 40.

Showed in general a short 1940 and in almost normal 1941. Thus less an growth before D.B.H. was considerably less per year than in the measured intercepts.

All trees measured were from 1942-1945 (and) seasons. \* Height measurements taken by means of tape.

Stand in ridge in Orangeburg.

# North Miss. Plantation Survey

Plant # 15

Acre #1

Loblolly  
Wingate, Co.  
Sample plot #

	Mean	Stand Dev.	Over- Var. p.	# Samples
<u>Total Height</u>				
Mechanical Sample -	-	-	-	-
All Dominants	13.60	1.94	10.43	25
<u>4 Year Intercepts</u>				
Mechanical Sample -	-	-	-	-
All Dominants	15.68	1.89	11.93	25



## NORTH MISSISSIPPI PLANTATION INVESTIGATION

PLANTATION #: 16 COUNTY: Union DATE: 8-15-46SOIL AREA: Flatwood - Penn. T63, R3E, S20.33 T,R,S,40: NEH NEH PLANTED Winter 36-37OWNER: T.H. Mitchell OCCUPATION: FarmerADDRESS: R. 3, New Albany, Miss.SPECIES: Slush, Lubilly AGE: 9 G.S. PURPOSE: Replantation adm. fieldTOTAL ACRES: 40 SPACING: 6x6 ft. AGE OF STOCK: 1-0PLANTED BY: camp PLANTING METHOD: DRYLOCKSEED SOURCES: \_\_\_\_\_ STOCK SOURCE: S.E.S.FORMERLY CULTIV.: X PASTURED: \_\_\_\_\_ OTHER: \_\_\_\_\_USE IMMED. PRIOR ABAND.: Cultiv. Row crops# YRS. BETW. ABANDONMENT AND PLANTING: NoneSITE PREPARATION: NoneTREATMENT: Burned winter 41-42

CHARACTER AND DEGREE OF EROSION: \_\_\_\_\_

TOPOGRAPHY: LEVEL: \_\_\_\_\_ UNDULATING: \_\_\_\_\_ ROLLING: ✓ HILLY: \_\_\_\_\_ PREC: \_\_\_\_\_

DAMAGE:

Agency	Degree of Damage		
	Light	Medium	Heavy
Fire	<u>No fire</u>		
Insect		<u>X</u>	
Grazing	<u>X</u>		
Fungi		<u>X</u>	
Other			

Replanting Data: DATE: None SPECIES: \_\_\_\_\_

# PER ACRE: \_\_\_\_\_ SOURCE: \_\_\_\_\_

PLANTING DATA: \_\_\_\_\_

REMARKS: \_\_\_\_\_

NORTH MISSISSIPPI PLANTATION INVESTIGATIONPlantation #: 16. Date: 7-15-46. Area #: 1 of \_\_\_\_\_Acres in Area: \_\_\_\_\_. # Sample plots: \_\_\_\_\_. Sample Plot #: 1Species: Liberty Pine. Spacing: Approx. 6x6 ft.Replanting data: No replantingSITE CHARACTERISTICSSoil Type: Residual Silt loam Phase: \_\_\_\_\_ Catenae: \_\_\_\_\_

Utility Soil Class: \_\_\_\_\_ Sur. Soil Tex.: \_\_\_\_\_

## Classification of subsoil properties by Code Number

Drainage	Plasticity	Compactness	Color	Profile #	Depth to W.T.	pH	Structure

## CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet erosion class	Slope %	pH	Depth to Subsoil	Structure

Topographical position: Ridge top and upper slope / SinceExposure: all exposures are represented.

## Volunteer Growth

Species (with % composition): Persea carolinianaDensity: Very low. Origin: seed. Competition: None

% Composition adjacent forest: \_\_\_\_\_

Ground CoverDensity: Med.. Character: Grass. Indicator Plants: LowPLANTATION TREES

Survival %: \_\_\_\_\_. Ave. Ht. Growth/yr: \_\_\_\_\_ Feet.

Ave. d.b.h.: \_\_\_\_\_. Ave. Inter. Index: \_\_\_\_\_

Remarks: \_\_\_\_\_

# NORTH MISSISSIPPI PLANTATION SURVEY

County Union  
 Plot # 1  
 By J.M. GWA

Plant. No. 16  
 Date 7-15-46  
 Age 9 growing seasons

Area 1  
 Species Slash pine

*upland (ridge top) site.*

T.H. Mitchell Planting.

*Not so  
badly  
pruned*

*Misc  
pruned*

*IV*

*V*

No.	DBH in.	Total Height Ft.	Ave. Ft/yr.	Tree Crown Class	Intercept Measurements						Remarks
					Feet						
					1	2	3	4	5	6	
1	5.7	23		T	27.6	9.0	12.9	15.3			40-44
2	3.5	17		P	2.3	4.3	7.7	9.8	12.2		41-45
3	5.9	23		T	2.8	5.9	7.5	11.7	20.4		41-45
4	4.7	19			2.3	4.9	7.5	7.3	15.5		41-45
5	4.8	11			2.1	4.7	7.4	9.9	15.5		41-45
6	5.7	22			2.0	4.1	7.2	11.7	16.6		40-44
7	4.6	21			2.6	4.9	8.2	11.4	16.1		41-45
8	4.5	20			1.2	2.7	6.6	9.2	12.4		40-44
9	4.4	21			2.0	3.9	6.8	7.9	12.2		39-43
10	5.4	21			2.5	6.0	7.6	10.6	12.8		1740-44
11	4.0	19			2.9	6.0	8.6	11.4	15.1		1741-45
12	4.2	20			2.6	4.6	7.5	9.3	12.1		40-44
13	4.0	18			2.2	4.9	7.2	7.6	12.4		40-44
14	2.4	14			2.9	3.1	4.8	7.5	11.1		41-45
15	3.7	18			2.1	4.2	7.4	9.6	12.1		40-44
16	5.1	20			3.2	5.8	8.4	12.3	12.0		40-44
17	3.7	18			2.7	6.0	7.8	10.8	13.9		41-45
18	5.4	19			2.6	5.0	7.7	10.7	13.6		40-44
19	4.8	21			2.5	4.4	7.9	10.1	13.2		40-44
20	4.9	21			2.4	4.8	8.1	10.9	13.3		40-44
21	4.3	20			1.6	2.6	5.9	8.8	12.8		40-44
22	3.9	15			2.7	4.5	7.0	9.7	12.6		41-45
23	5.8	23			2.6	5.6	8.0	10.9	15.3		40-44
24	3.7	16			1.4	3.7	6.2	9.3	12.2		41-45
25	4.5	21			2.2	1.4	7.8	11.2	14.9		40-44
T.											
M.											

Sample trees taken in groups of five.

Trees in more eroded spots (Erosion in this field is spotty) are distinctly smaller. Slash pine has much better form than loblolly on this plantation. Slash intercepts cluster than loblolly.

Tree class: T = Thrifty  
P = Poor



# NORTH MISSISSIPPI PLANTATION SURVEY

County Union  
 Plot # 1  
 By J.M. & G.W. A.

Plant. No. 18  
 Date 7-15-46  
 Age 9 growing seasons

Area 1  
 Species Loblolly Pine

T.H. Mitchell Planting.

No.	DBH in.	Total Height Ft.	Ave. Ft/yr.	Crown Class	Intercept Measurements						Remarks
					Feet						
					1	2	3	4	5	6	
1	4.5	20		T	3.6	6.6	11.6	15.2	16.2		41-45
2	4.4	18		T	4.5	7.4	11.7	7.3	7.6		40-44
3	3.5	20			2.9	7.9	8.7	10.8	11.7		40-44
4	4.3	18			1.6	4.0	6.7	10.6	11.6		41-45
5	4.1	18									40-44
6	4.7	20			2.3	5.3	7.9	10.9	13.2		40-44
7	4.1	20			3.0	6.0	8.1	11.5	14.9		40-44
8	5.5	23			1.8	4.4	6.4	9.0	12.4		40-45
9	5.6	20			2.8	5.9	9.0	12.0	12.2		41-45
10	5.5	21			2.9	5.8	8.7	12.4	16.2		41-45
11	3.7	18			3.0	6.4	8.8	11.6	16.9		41-45
12	4.7	18			3.0	5.6	8.4	11.3	15.4		41-45
13	4.5	16			2.9	5.8	8.5	11.4	13.7		40-45
14	5.4	13			2.2	4.5	7.0	8.9	10.5		40-44
15	4.7	16			2.0	3.5	5.1	6.6	8.3		40-44
16	4.8	20			1.7	4.2	6.5	8.9	12.2		41-45
17	3.9	20			2.7	6.5	9.5	14.3	18.2		41-45
18	5.5	21			3.9	6.8	9.8	12.2	14.6		40-44
19	6.3	22			3.1	6.3	9.0	12.6	17.1		40-44
20	4.5	21			2.1	6.0	9.1	13.6	12.9		41-45
21	5.2	21			2.4	6.9	11.5	14.0	17.1		41-45
22	4.3	20			3.6	6.8	9.9	14.2	17.2		40-44
23	4.8	21			4.1	6.3	8.9	12.6	15.4		40-44
24	4.6	20			1.2	4.0	8.0	10.8	12.5		40-44
25	4.7	16			2.3	4.2	7.5	10.1	13.4		40-44
					2.9	5.7	7.7	10.0	12.7		40-44

T.  
M.

Loblolly intercepts not nearly as plain as slash on this planting. Loblolly also more damaged (hit harder) by tip moth. Blocks of pure slash have much higher crown-ratium infection.

Ave. diam. of dominants = 4.75 in.

NORTH MISSISSIPPI PLANTATION SURVEY

Lower slope and undifferentiated alluvial soil in draw.

County Union  
Plot # 2  
By T.H. Mitchell

Plant. No. 16  
Date 7/16/46  
Age 9 seasons

Area 2  
Species Slash Pine + Loblolly Pine

T.H. Mitchell Firm

New Albany

No.	DBH in.	Total Height Ft.	Ave. Ft/yr.	Tree Crown Class	Intercept Measurements						Remarks
					Feet						
					1	2	3	4	5	6	
1	5.7	30		T	3.9	6.0	9.6	13.8	16.9		Slash
2	5.4	31		T	2.5	5.6	9.2	12.2	16.0		"
3	4.0	26		"	2.6	5.6	7.5	14.8	17.7		"
4	6.1	24		"	2.5	4.8	6.9	10.2	12.9		"
5	4.9	25		"	2.6	4.9	8.8	11.7	15.0		"
6	5.7	26		"	2.0	4.1	6.8	9.5	14.2		"
7	3.4	23		"	1.9	3.9	6.6	7.7	13.1		"
8	4.7	25		"	2.5	4.5	8.0	11.5	15.6		"
9	5.3	22		"	3.2	6.0	11.1	15.2	17.8		"
10	4.5	23		"	4.0	7.0	13.1	16.9	19.6		"
11	5.9	27		"	2.4	6.7	10.4	13.5	18.2		"
12	4.6	26		"	2.2	4.9	9.4	13.2	15.9		"
13	6.7	23		"	4.5	10.2	13.4	16.6	19.0		Loblolly
14	7.4	28		"	2.4	6.1	9.3	13.0	17.9		"
15	6.2	25		"	1.3	2.8	3.0	17.4	20.4		"
16	6.5	24		"	2.6	5.1	9.3	12.2	15.2		"
17	2.5	26		"	2.9	5.9	9.5	12.4	16.3		"
18	5.8	26		"	3.3	6.5	10.8	14.3	17.9		"
19	6.0	26		"	2.9	6.8	10.6	13.9	18.5		"
20	6.0	29		"	3.8	7.7	11.0	15.4	18.8		"
21	5.3	28		"	3.8	6.6	10.3	13.6	16.4		"
22	5.0	30		"	2.5	5.3	9.1	12.7	16.6		"
23	4.9	29		"	2.6	7.0	9.8	13.2	16.6		"
24	4.5	26		"	2.8	5.8	8.6	13.7	17.4		"
25											

T.  
M.

Trees on the undifferentiated alluvial soil in draw below dam are distinctly larger than those on eroded upland found on plot 1.

Ave. diam. of Loblolly Dam: 5.81

## NORTH MISSISSIPPI PLANTATION SURVEY

County Union  
Plot # 2  
By J.M. + G.W.F.

Plant. No. 16  
Date 7-16-46  
Age 9 G.S.

Area 2  
Species Slack +  
Lobolly

[illegible]



North Miss. Plantation  
Survey - Slough Pine  
Area #1 (Pine site)

Union Co.

Plant #16

Sample Plot #1

	Mean	Stand Dev.	Coef. Var.	# Samples
<u>Total Height</u>				
Mechanical Sample	-	-	-	-
All Dominants	17.66	2.35	11.95	24
<u>5 Year Intercepts</u>				
Mechanical Sample	-	-	-	-
All Dominants	13.93	2.01	14.43	24

# North Miss Plantation Survey

Plant. # 16 Area # 1 (Upland  
(Ridgetop site))

Union Co.  
Loblolly Pine  
Sample Plot # 1

	Mean	Stand Dev.	Coef. Var. %	# Samples
<u>Total Height</u>				
Mechanical Sample	-	-	-	-
All Dominants	19.28	2.26	11.72	25
<u>5 Year Intercuts</u>				
Mechanical Sample	-	-	-	-
All Dominants	14.67	2.81	19.15	25

# North Miss. Plantation Survey

Union Co

Plot # 16

Acre # 2

(T.H. Mitchell  
farm)

Slack Pine

Sample Plot # 2

	Mean	Stand Dev.	Coef. Var. %	# Samples
<u>Total Height</u>				
Mechanical Sample	-	-	-	-
All Dominants	25.40	2.59	10.20	15
<u>5 Year Intercepts</u>				
Mechanical Sample.	-	-	-	-
All Dominants	16.15	2.10	13.00	15



## North Miss. Plantation Survey

Union Co.

Loblolly Pine  
Sample Plot #2Plant. # 16 Area # 2 (T. H. Mitchell  
Farm)

	Mean	Stand Dev.	Coeff. Var %	# Samples
<u>Total Height</u>				
Mechanical Sample	-	-	-	-
All Dominants	26.27	2.15	8.18	15
<u>5 Year Interscpts</u>				
Mechanical Sample	-	-	-	-
All Dominants	17.39	1.59	9.14	15

## NORTH MISSISSIPPI PLANTATION INVESTIGATION

PLANTATION #: 17 . COUNTY: Union . DATE: 8-20-46  
 SOIL AREA: Penetice Ridge . T,R,S,40: Winter 36-37 . PLANTED  
 OWNER: Lovanna Bell . OCCUPATION: Farm Owner  
 ADDRESS: New Albany, Miss.  
 SPECIES: Loblolly Pine . AGE: 9 G.S. . PURPOSE: Erosion controlled reforestation  
 TOTAL ACRES: 4 . SPACING: 6x6 ft approx. . AGE OF STOCK: 1-0  
 PLANTED BY: \_\_\_\_\_ . PLANTING METHOD: \_\_\_\_\_  
 SEED SOURCES: \_\_\_\_\_ . STOCK SOURCE: \_\_\_\_\_  
 FORMERLY CULTIV.: ✓ . PASTURED: \_\_\_\_\_ . OTHER: \_\_\_\_\_  
 USE IMMED. PRIOR ABAND.: \_\_\_\_\_  
 # YRS. BETW. ABANDONMENT AND PLANTING: \_\_\_\_\_  
 SITE PREPARATION: \_\_\_\_\_  
 TREATMENT: \_\_\_\_\_  
 CHARACTER AND DEGREE OF EROSION: \_\_\_\_\_  
 TOPOGRAPHY: LEVEL: \_\_\_\_\_ UNDULATING: \_\_\_\_\_ ROLLING: X HILLY: \_\_\_\_\_ PREC: \_\_\_\_\_  
 DAMAGE:

Agency	Degree of Damage		
	Light	Medium	Heavy
Fire	<u>None</u>		
Insect	<u>Tip moth - 2-4 yrs</u>	<u>✓</u>	
Grazing	<u>lightly grazed but no observable damage</u>		
Fungi	<u>Cronarium</u>	<u>✓</u>	
Other			

Replanting Data: DATE: None . SPECIES: \_\_\_\_\_

# PER ACRE: \_\_\_\_\_ SOURCE: \_\_\_\_\_

PLANTING DATA: \_\_\_\_\_

REMARKS: \_\_\_\_\_

NORTH MISSISSIPPI PLANTATION INVESTIGATIONPlantation #: 17. Date: 8-20-46. Area #: 12+3 of 1,2+3Acres in Area: 4. # Sample plots: 1. Sample Plot #: 1Species: Loblolly Pine. Spacing: 6x6 approx.Replanting data: No replantingSITE CHARACTERISTICSSoil Type: loam Phase: \_\_\_\_\_ Catenae: \_\_\_\_\_Utility Soil Class: \_\_\_\_\_ Sur. Soil Tex.: clay loam

## Classification of subsoil properties by Code Number

Drainage	Plasticity	Compactness	Color	Profile #	Depth to W.T.	pH	Structure

## CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet eros-ion class	Slope %	pH	Depth to Subsoil	Structure

Topographical position: Top, middle & lower part of steep N. slope.Exposure: Generally due north.

## Volunteer Growth

Species (with % composition): Persimmon [ 2 red gum [ ]Density: \_\_\_\_\_ Origin: seedling. Competition: None

% Composition adjacent forest: \_\_\_\_\_

Ground CoverDensity: light. Character: weed. Indicator Plants: \_\_\_\_\_PLANTATION TREES

Survival %: \_\_\_\_\_ Ave. Ht. Growth/yr: \_\_\_\_\_ Feet.

Ave. d.b.h.: \_\_\_\_\_ Ave. Inter. Index: \_\_\_\_\_

Remarks: \_\_\_\_\_



## NORTH MISSISSIPPI PLANTATION SURVEY

County Union  
 Plot # 1  
 By L.M. - G.M.A.

Plant. No. 17  
 Date 8-20-46  
 Age 9 growing section

Area 1, 2, 3  
 Species Loblolly Pine

Larrea Bell Place - E. Green Clay 100m.

No.	DBH in.	Total Height Ft.	Ave. Ft/yr.	Tree Crown Class	Intercept Measurements						Remarks
					Feet						
					1	2	3	4	5	6	
1	4.7	23		Superior S	2.2	6.4	7.4	12.0	15.1		41-45
2	4.0	2.0		"	2.6	6.2	9.9	14.1	17.2		41-45
3	4.5	22		"	2.2	5.0	7.0	11.4	15.3		40-47
4	5.0	23		"	2.9	6.7	11.4	15.1	18.4		40-44
5	3.9	20		"	2.2	5.8	7.6	12.8	18.1		41-45
6	5.4	28		"	2.8	7.4	11.6	17.0	21.0		39-43
7	4.7	25		"	2.7	8.0	16.0	16.7	17.5		40-44
8	4.4	25		"	2.9	5.5	7.9	13.7	17.7		40-44
9	5.7	28		"	3.2	7.2	13.2	18.8	24.0		41-45
10	4.2	28		"	2.4	6.8	11.1	15.1	18.6		39-43
11	3.2	20		"	2.0	4.5	8.0	10.2	13.2		40-44
12	3.9	22		"	2.6	5.0	10.5	14.9	18.4		41-45
13	3.7	21		"	2.4	4.2	7.5	11.6	17.9		41-45
14	6.3	27		"	2.4	4.2	7.7	11.7	16.6		39-43
15	4.2	22		"	2.4	5.6	8.6	11.3	15.5		40-44
16	5.0	23		"	2.8	6.2	9.9	14.0	16.8		40-44
17	4.0	17		"	2.8	4.4	8.9	11.8	14.8		41-45
18	4.0	22		"	2.7	5.6	8.7	12.4	15.6		41-45
19	3.6	19		"	2.5	4.0	7.2	9.1	12.2		40-44
20	3.7	22		"	2.5	5.9	9.4	11.8	15.3		40-44
21	5.1	25		"	3.6	8.0	12.2	17.2	22.6		40-44
22	4.4	27		"	3.7	8.2	12.5	16.5	17.9		40-44
23	4.7	25		"	4.0	7.2	10.7	13.9	17.2		40-44
24	5.0	26		"	3.7	7.2	10.2	13.9	17.8		40-44
25	4.8	25		"	3.9	6.8	12.0	16.1	22.0		41-45
T.											
M.											

30 sample trees taken, 10 on upper slope, 10 on middle slope, and 10 on lower slope. Complete plantation on fairly steep (12°/10) N. slope.

Ave. diam. of dominants = 4.55"  
 (30 dominants)

NORTH MISSISSIPPI PLANTATION SURVEY

County Union  
Plot # 1  
By J.M. & G.W.A.

Plant. No. 17  
Date 8-20-46  
Age 9 G.S.

Area 1, 2, 3  
Species Lobelia

Lorraine Bell Place

[illegible]

## North Miss. Plantation Survey

Plant. # 17

Ave # 1, 2, 3

Union Co.  
Loblolly Pine  
Sample Plot #1

	Mean	Stand Dev.	Coef. Var. %	# Samples.
<u>Loblolly - Middle Slope</u>				
<u>Total Height</u>				
Mechanical Sample	-	-	-	-
All Dominants	24.20	3.12	12.89	10
<u>5 Year Intercepts</u>				
Mechanical Sample	-	-	-	-
All Dominants	18.29	2.42	13.56	10
<u>Upper Slope</u>				
<u>Total Height</u>				
Mechanical Sample	-	-	-	-
All Dominants	21.60	2.46	11.39	10
<u>5 Year Intercepts</u>				
Mechanical Sample	-	-	-	-
All Dominants	15.63	1.93	12.35	10

## North Miss. Plantation Survey

Union Co.  
Loblolly

Plant. # 17

Area 1, 2, 3

Sample Plot #1

	Mean	Stand Dev.	Coef. Var. %	# Samples
<u>Lower Slope</u>				
<u>Total Height</u>				
Mechanical Sample	-	-	-	-
All Dominants	26.00	1.41	5.42	10
<u>5 Year Intercepts</u>				
Mechanical Sample	-	-	-	-
All Dominants	18.23	2.05	11.25	10

## Total Plot (All slopes)

<u>Total Height</u>				
Mechanical Sample	-	-	-	-
All Dominants	23.93	2.98	12.45	30
<u>5 Year Intercepts</u>				
Mechanical Sample	-	-	-	-
All Dominants	17.38	2.44	14.04	30



NORTH MISSISSIPPI PLANTATION INVESTIGATIONPlantation #: 12. Date: 8-21-46. Area #: \_\_\_\_\_ of \_\_\_\_\_Acres in Area: 15. # Sample plots: by plots <sup>Not sample</sup>. Sample Plot #: \_\_\_\_\_Species: Lobl. & short leaf pine. Spacing: 6 x 6 Ft & approx.Replanting data: No replantingSITE CHARACTERISTICSSoil Type: Lexington silt loam Phase: \_\_\_\_\_ Catenae: \_\_\_\_\_

Utility Soil Class: \_\_\_\_\_ Sur. Soil Tex.: \_\_\_\_\_

## Classification of subsoil properties by Code Number

Drainage	Plasticity	Compactness	Color	Profile #	Depth to W.T.	pH	Structure
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

## CLASSIFICATION OF SURFACE SOIL CHARACTERISTICS

Depth compact subsoil	Thickness of A <sub>1</sub> Horiz.	Sheet erosion class	Slope %	pH	Depth to Subsoil	Structure
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Topographical position: \_\_\_\_\_

Exposure: \_\_\_\_\_

## Volunteer Growth

Species (with % composition): \_\_\_\_\_

Density: \_\_\_\_\_ Origin: \_\_\_\_\_ Competition: \_\_\_\_\_

% Composition adjacent forest: \_\_\_\_\_

Ground Cover

Density: \_\_\_\_\_ Character: \_\_\_\_\_ Indicator Plants: \_\_\_\_\_

PLANTATION TREES

Survival %: \_\_\_\_\_ Ave. Ht. Growth/yr: \_\_\_\_\_ Feet.

Ave. d.b.h.: \_\_\_\_\_ Ave. Inter. Index: \_\_\_\_\_

Remarks: \_\_\_\_\_

Notes on Plantation # 12      Union Co.

Three distinct and interesting site conditions were found in this planting.

① Loblolly pine planted on an upper ridge and ridge-top site. The site was heavily eroded with 75-90-100% of the topsoil removed. A mechanical 15 tree sample was measured to represent this site.

② Galled spots in which shortleaf was the predominant species planted, but having occasional loblolly on the same site. These galled spots were created on the upper and middle slopes of the ridge. Erosion; very severe with all of the topsoil eroded to 25% of the subsoil. A mechanical paired sample of loblolly and shortleaf (15 trees each) was taken on this site condition. The paired trees have the same numbers on the field sheets. Slopes from 5-12%.

③ Loblolly pine growing on lower slope terrace where little erosion has taken place and some deposition has probably occurred. Slope from 0-2%. This is distinctly the best site in the plantation. A mechanical sample of 15 trees was measured to represent this site.

Plantation #18

W.A. Beard Plantation - Union Co., Miss.

Planting Design by S.C.S.

① Shortleaf pine planted in the more galled areas of the old field and loblolly pine on the less galled areas.

Plantation Measurement Plan

- ① Paired measurements of shortleaf and loblolly on the heavier galled spots.
- ② Measurements of loblolly on less galled areas.
  - Ⓐ Top of ridge and upper slopes.
  - Ⓑ Lower slopes.
- ③ Measurements in shortleaf and badly galled areas.

# NORTH MISSISSIPPI PLANTATION SURVEY

County Union  
 Plot # 2  
 By JM & CWA

Plant. No. 18  
 Date 8-21-76  
 Age           

Area             
 Species Loblolly

Ridge-top site

No.	DBH in.	Total Height Ft.	Ave. Ft/yr.	Crown Class	Intercept Measurements						Remarks
					Feet						
					1	2	3	4	5	6	
1	3.6	18			2.3	5.2	10.8	14.8			1442 - 45
2	3.2	15			3.0	5.5	7.0	12.2			42 - 45
3	2.7	14			2.4	5.0	8.4	11.1			42 - 45
4	3.0	13			2.5	5.3	7.0	9.0			42 - 45
5	3.1	13			3.0	5.8	8.1	11.7			42 - 45
6	2.7	17			2.3	4.3	6.5	8.9	10.8		41 - 45
7	3.3	16			3.4	5.0	8.0	10.6	17.3		41 - 45
8	3.1	17			2.1	4.7	6.7	10.0	12.0		41 - 45
9	4.8	21			1.6	4.4	7.2	12.5	15.0		40 - 44
10	2.8	20			2.5	7.5	10.2	13.0	17.6		41 - 45
11	4.2	18			2.6	5.2	8.0	10.8	17.6		41 - 45
12	3.1	13			2.8	5.3	8.7	11.6			42 - 45
13	4.5	17			2.3	4.6	7.3	11.9	14.0		41 - 45
14	3.2	19			3.2	5.4	8.9	12.5	15.2		41 - 45
15	3.7	16			2.6	5.2	7.0	10.9	13.6		41 - 45
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
T.											
M.											

Note: These measurements to be ~~not~~ compared with the 15 loblolly measurements made in better terrace site. The loblolly in the upper portion of the ridge is noticeably poorer than that in the terrace. Same soil types but more erosion on ridge.

Survival = 80%

Shrub erosion heavy with occasional gullies.

Light top moth damage. Mammals fully selected.

Intercept very poor.



NORTH MISSISSIPPI PLANTATION SURVEY

County Durham  
Plot # 1  
By W. J. E. N. A.

Plant. No. 18  
Date 8-21-46  
Age 7 0.5

Area \_\_\_\_\_  
Species Shortleaf

Print with labels on sheet 2

[illegible]

## NORTH MISSISSIPPI PLANTATION INVESTIGATION

PLANTATION #: 18 . COUNTY: Union . DATE: 8-15-46  
 SOIL AREA: Hills . T, R, S, 40: T 15, R 2 E, S 10, S 1/4 . PLANTED 1938-39 Winter  
 OWNER: W. H. Beard . OCCUPATION: Farmer  
 ADDRESS: New Alling, Miss. Rt. 4  
 SPECIES: Loblolly Short leaf . AGE: 7 G. S. . PURPOSE: Erosion control / reforestation  
 TOTAL ACRES: 15 . SPACING: 6x6 ft. . AGE OF STOCK: 1-0  
 PLANTED BY: WPA . PLANTING METHOD: Mattock  
 SEED SOURCES: Don't know . STOCK SOURCE: S. C. S.  
 FORMERLY CULTIV.: X . PASTURED:        . OTHER:         
 USE IMMED. PRIOR ABAND.: Abandoned  
 # YRS. BETW. ABANDONMENT AND PLANTING: 3-4 years  
 SITE PREPARATION: None  
 TREATMENT: None  
 CHARACTER AND DEGREE OF EROSION: Sheet / incipient gully - heavy  
 TOPOGRAPHY: LEVEL:        UNDULATING:        ROLLING: X HILLY:        PREC:         
 DAMAGE:

Agency	Degree of Damage		
	Light	Medium	Heavy
Fire : <u>None</u>	:	:	:
Insect : <u>Tip moth</u>	:	<u>X</u>	:
Grazing : <u>None</u>	:	:	:
Fungi : <u>Cronidium</u> <u>fusiform</u>	<u>X</u>	:	:
Other :	:	:	:

Replanting Data: DATE: None . SPECIES:       

# PER ACRE:        SOURCE:       

PLANTING DATA:       

REMARKS:

NORTH MISSISSIPPI PLANTATION SURVEY

23

County Union  
 Plot # 1  
 By JM & CWA

Plant. No. 18  
 Date 8 21-46  
 Age           

Area             
 Species Loblolly

No.	DBH in.	Total Height Ft.	Ave. Ft/yr.	Crown Class	Intercept Measurements						Remarks
					Feet						
					1	2	3	4	5	6	
1	4.3	28			4.3	6.6	11.5	14.6	18.7		40-44
2	4.6	25			7.9	6.2	9.1	12.0	18.2		40-44
3	4.9	27			2.6	7.6	6.4	13.0	11.9		40-44
4	4.4	22			3.0	5.6	8.8	11.2	15.5		40-44
5	4.4	26			3.5	6.5	12.0	15.3	18.4		40-44
6	5.0	26			2.5	1.5	11.7	15.0	11.0		40-44
7	5.2	23			3.7	10	11.5	14.8	11.5		40-44
8	3.7	23			2.6	5.9	9.3	11.6	15.3		40-44
9	4.7	25			3.2	6.4	10.6	14.5	18.5		40-44
10	6.6	27			2.5	7.3	11.6	15.2	18.9		40-44
11	5.2	23			1.7	5.2	7.7	12.2	16.3		40-44
12	5.7	26			2.7	6.7	10.3	11.9	13.6		40-44
13	4.5	23			3.1	7.5	10.3	14.1	11.7		41-45
14	5.3	22			3.5	7.1	11.4	15.6	11.8		41-45
15	3.6	26			2.7	6.6	11.6	14.7	18.2		
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
T.											
M.											

These trees growing on best site in plantation, a lower productivity level terrace & having only a moderate amount of erosion.

Survival 95%

All trees in representative class - no Shrimps taken.

Slope ranging from 0-3%.

Medium tip moth damage

Intercepts very plain.

NORTH MISSISSIPPI PLANTATION SURVEY

County Union  
Plot # 1  
By JM GVA

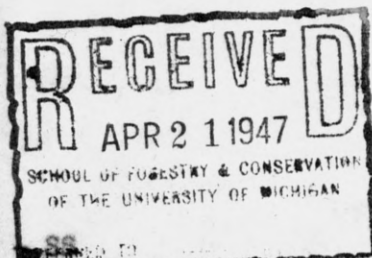
Plant. No. 18  
Date 8-21-46  
Age 7 (2.5)

Area Collected  
Species Loblolly

No.	DBH in.	Total Height Ft.	Ave. Ft./yr.	Crown Class	Intercept Measurements						Remarks
					Feet						
					1	2	3	4	5	6	
1	2.8	11.2			2.1	4.3	6.5	7.8			Measured 1745 in 41 cases.
2	3.0	10.5			1.7	3.3	4.6	5.9	7.7		
3	2.3	11.1			3.4	5.3	7.2				
4	3.1	13.4			3.0	5.2	8.6	10.2			
5	3.3	20.2			2.6	6.1	11.0	14.6	16.9		
6	2.5	12.5			2.2	4.4	6.8	8.4			
7	2.7	12.8			2.1	4.5	7.4	9.6			
8	3.8	17.7			3.8	7.4	11.9	15.1			
9	3.3	16.6			1.1	3.9	6.7	7.5	12.9		
10	4.1	17.0			1.4	3.6	5.7	9.2	13.4		
11	5.2	21.0			2.4	5.9	9.2	12.3	14.4		
12	4.6	18.9			3.0	4.2	7.9	10.7	14.0		
13	4.0	21.2			2.9	6.5	7.4	12.9	15.2		
14	4.6	22.0			2.1	6.5	7.7	13.6	16.1		
15	4.8	20.8			3.2	5.6	8.6	13.1	15.7		
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
T.											
M.											

Note: To be compared with short cut on sheet 1. Trees paired by numbers.





Mid-City Station  
Box 7295

XXXXXXXXXXXXXXXXXXXX  
XXXXXXXXXXXX

RS SS  
REGENERATION  
Planting

April 18, 1947

Mr. Monty Payne, Head  
Department of Forestry  
Mississippi State College  
State College, Mississippi

Dear Monty:

Bull has brought back word that Abel needs the data he and Marrero took last summer on Plantations 2-18, which we have been holding to copy for our files. We are accordingly returning the complete file herewith, registered.

We are retaining longhand copies of all the descriptions and heights in our "descriptive directory" file (Study EST-14), and are sending carbons, as previously agreed, to Marrero and to the School of Forestry and Conservation at Ann Arbor, to be filed with Marrero's report.

Sincerely yours,

Chas. A. Connaughton


CHAS. A. CONNAUGHTON, Director

Encl.

cc: José Marrero  
Dean S. T. Dana ✓

N.B. Because of shortage of help, the transcriptions of these data have not been checked.

UNIVERSITY OF MICHIGAN



3 9015 00326 7526

THE UNIVERSITY OF MICHIGAN

TO RENEW PHONE 764-1494

DATE DUE

--	--



