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Project Report No. 42, High/Low Counties

Curtis Vanderschaaf

J. David Lenhart

Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University

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High/Low Counties

Curtis Vanderschaaf
Student Assistant
College of Forestry, SFASU, Nacogdoches, TX, 75962

J. David Lenhart
Professor and ETPPRP Director
College of Forestry, SFASU, Nacogdoches, TX, 75962

REPORT 42

From
the

East Texas Pine Plantation Research Project
College of Forestry
SFASU
Nacogdoches, TX 75962

April ... 1996

Which East Texas counties tend to have the highest and lowest values of certain pine plantation attributes?

The ETPPRP permanent growth and yield research plots installed by the College of Forestry at

Stephen F. Austin State University in unthinned loblolly (*Pinus taeda* L.) pine plantations (24 counties) and unthinned slash (*Pinus elliottii* Engelm.) pine plantations (10 counties) provided an opportunity to attempt to answer this question.

Loblolly and Slash pine plantation attributes considered are:

- Ability of area to grow pine plantations •
- Percent of pines with crooked stems •
- Percent of pines with stem fusiform rust •
- Visual quality •

An analysis of 14 years of ETPPRP plot measurements determined average attribute values by 5-year age classes (5, 10, 15 & 20 years) for each county.

Attributes 1 and 2

- Ability of an area to grow pine plantations is quantified by site index (base age 25 years).
- If the stem of a pine tree has a definitive departure from straightness, it was classified as crooked.

Perhaps these average attribute values based on ETPPRP plots are indicative of the character and nature of unthinned East Texas pine plantations.

Attributes 3 and 4

- If a pine tree had a fusiform rust gall on or adjacent to the stem, it was noted as stem infected.
- The visual quality value is ranked on a scale from 6 - 60 pts, as determined by a six part tally system.

The counties are depicted by species by attribute by age class on the next 4 pages.

UNTHINNED LOBLOLLY PINE PLANTATIONS IN EAST TEXAS

SITE INDEX

COUNTIES TENDING TO HAVE HIGHEST VALUES

COUNTIES TENDING TO HAVE LOWEST VALUES

TYLER @ 78'

5 YR AGE CLASS

RED RIVER @ 42'

SABINE @ 79'

10 YR AGE CLASS

RED RIVER @ 46'

JASPER @ 82'

15 YR AGE CLASS

RED RIVER @ 52'

JASPER @ 87'

20 YR AGE CLASS

RED RIVER @ 48'



UNTHINNED LOBLOLLY PINE PLANTATIONS IN EAST TEXAS

CROOKED PERCENT

COUNTIES TENDING TO HAVE HIGHEST VALUES

COUNTIES TENDING TO HAVE LOWEST VALUES

HARDIN @ 75%

5 YR AGE CLASS

HOUSTON @ 36%

RED RIVER @ 83%

10 YR AGE CLASS

CASS @ 41%

LIBERTY @ 85%

15 YR AGE CLASS

BOWIE @ 44%

NACOGDOCHES @ 85%

20 YR AGE CLASS

JASPER @ 57%

UNTHINNED SLASH PINE PLANTATIONS IN EAST TEXAS

FUSIFORM RUST PERCENT

COUNTIES TENDING TO HAVE HIGHEST VALUES

COUNTIES TENDING TO HAVE LOWEST VALUES

TYLER @ 34%

5 YR AGE CLASS

POLK @ 15%

NEWTON @ 53%

10 YR AGE CLASS

ORANGE @ 15%

NEWTON @ 56%

15 YR AGE CLASS

ANGELINA @ 36%

NEWTON @ 61%

20 YR AGE CLASS

ANGELINA @ 33%

UNTHINNED SLASH PINE PLANTATIONS IN EAST TEXAS

VISUAL QUALITY VALUE

COUNTIES TENDING TO HAVE HIGHEST VALUES

COUNTIES TENDING TO HAVE LOWEST VALUES

JASPER @ 44 pts

5 YR AGE CLASS

HARDIN @ 36 pts

ANGELINA @ 43 pts

10 YR AGE CLASS

HARDIN @ 29 pts

SAN AUGUSTINE @ 37 pts

15 YR AGE CLASS

HARDIN @ 27 pts

ANGELINA @ 41 pts

20 YR AGE CLASS

JASPER @ 32 pts