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Project Report No. 42, High/Low Counties

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High/Low Counties

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REPORT

From the

East Texas Pine Plantation Research Project College of Forestry SFASU Nacgodoches, 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 ·
- · Pecent 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 stam, 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



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

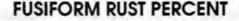
BOWIE @ 44%

NACOGDOCHES @ 85%

20 YR AGE CLASS

JASPER @ 57%

Unthinned Slash Pine Plantations in East Texas



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