Project Report No. 42, High/Low Counties

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High/Low Counties

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REPORT 42

From the
East Texas Pine Plantation Research Project
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April ... 1996
Which East Texas counties tend to have the highest and lowest values of certain pine plantation attributes?

The ETTPRP 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 ETTPRP 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.

**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.

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

The counties are depicted by species by attribute by age class on the next 4 pages.
UNTHINNED SLASH PINE PLANTATIONS IN EAST TEXAS

FUSIFORM RUST PERCENT

COUNTIES TENDING TO HAVE HIGHEST VALUES

TYLER @ 34%

NEWTON @ 53%

NEWTON @ 56%

NEWTON @ 61%

COUNTIES TENDING TO HAVE LOWEST VALUES

POLK @ 15%

ORANGE @ 15%

ANGELINA @ 36%

ANGELINA @ 33%

UNTHINNED SLASH PINE PLANTATIONS IN EAST TEXAS

VISUAL QUALITY VALUE

COUNTIES TENDING TO HAVE HIGHEST VALUES

JASPER @ 44 pts

ANGELINA @ 43 pts

SAN AUGUSTINE @ 37 pts

ANGELINA @ 41 pts

COUNTIES TENDING TO HAVE LOWEST VALUES

HARDIN @ 36 pts

HARDIN @ 29 pts

HARDIN @ 27 pts

JASPER @ 32 pts