

SURVIVAL OF LONGLEAF PINE (*Pinus palustris* Mill.) ON MINE RECLAMATION SITES USING DIFFERENT REGENERATION METHODS

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Three sites were chosen to study longleaf pine regeneration on lignite minespoils in east Texas. Two different minespoils were chosen, along with an unmined site, which served as a comparison.

Three types of planting treatments were studied: direct seeding, planting bareroot stock, and planting container stock. Direct seeding was unsuccessful, and therefore, was not included in analysis.

Survival rates of longleaf pine were analyzed using planting treatment, spoil type, and length of time seedlings were planted as factors of measurement.

Results indicated no significant difference in survival between bareroot and container stock. Seedling survival on the two minespoil sites were not significantly different. However, seedling survival was significantly lower for both minespoil sites when compared to the unmined site.

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