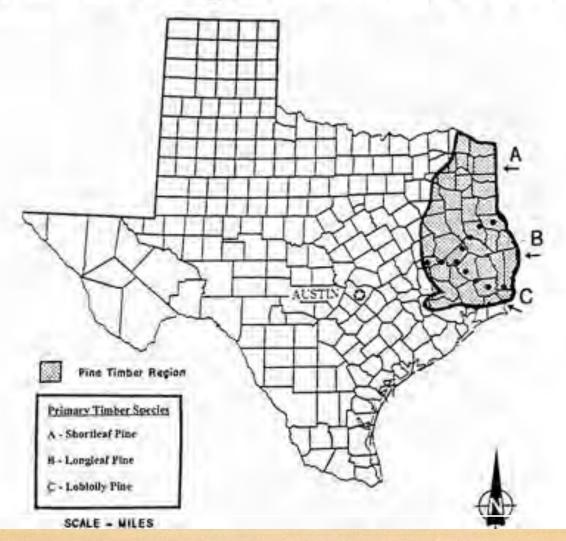
The Western Frontier: Shortleaf Pine Restoration in Texas

Mike Oliver
State Forester – USDA/NRCS
Nacogdoches, Texas



From: Aldridge Sawmill Website



From: Maxwell and Martin, 1970



Historic Literature

- W. R. Mattoon, 1919-1920 Life History of Shortleaf Pine
- J. H. Foster et al, 1917 Forest Resources of Eastern Texas
- Bray, 1904 Forest Resources of Texas
- Maxwell and Baker, 1983 Sawdust Empire
- L. C. Walker and H.V. Wiant, 1966 Forestry Bulletin No. 9 Silviculture of Shortleaf Pine
- Will, Rodney et al, 2013 Strategic Assessment of Shortleaf Pine

Some Notes from the Literature

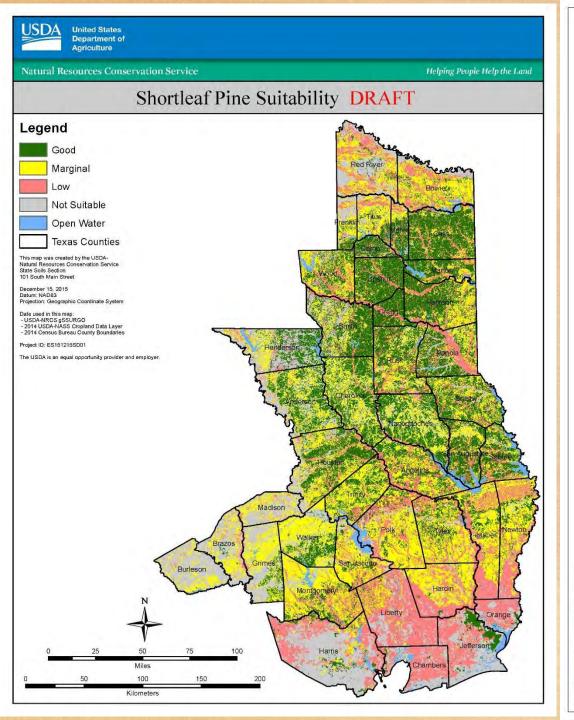
- "There is no typical site for shortleaf pine; often in the coves, the growth is very good"......from Walker and Wiant, 1966
- "Available soil moisture is the most important variable influencing survival and growth"......from Bray, 1904
- "Prefers clay in surface and subsurface horizons".....Will et al 2013
- "Can grow on rocky uplands to saturated floodplains"....Will et al 2013

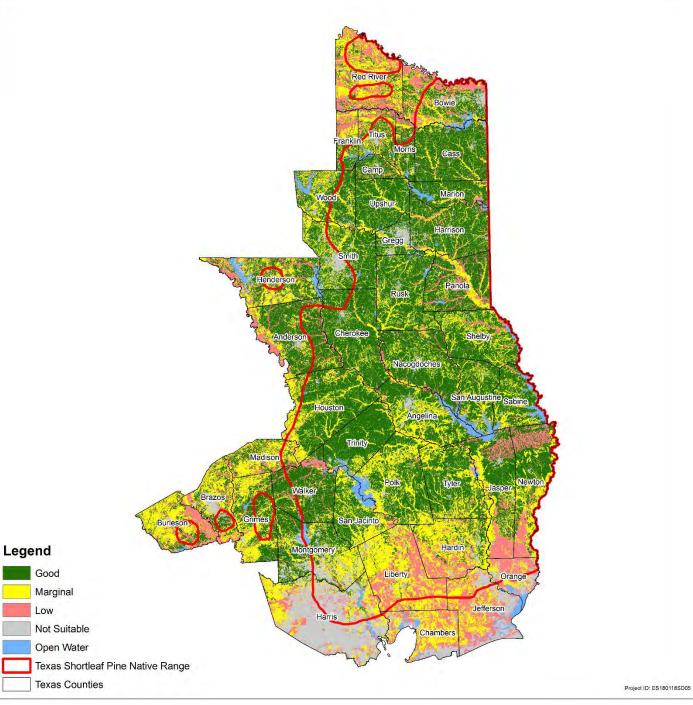
Soil Attributes Used for Query

- pH > 6 = 0
- Hydric Soils = 0
- Excessively drained = 0
- Somewhat excessively drained = 1
- Well drained = 3
- Moderately well drained = 3
- Somewhat poorly drained = 2
- Poorly drained = 1
- Very poorly drained = 0
- Calcium Carbonate = 0

Site Index - Attributes

- Good = > 70
- Marginal = 60 70
- Low = < 60

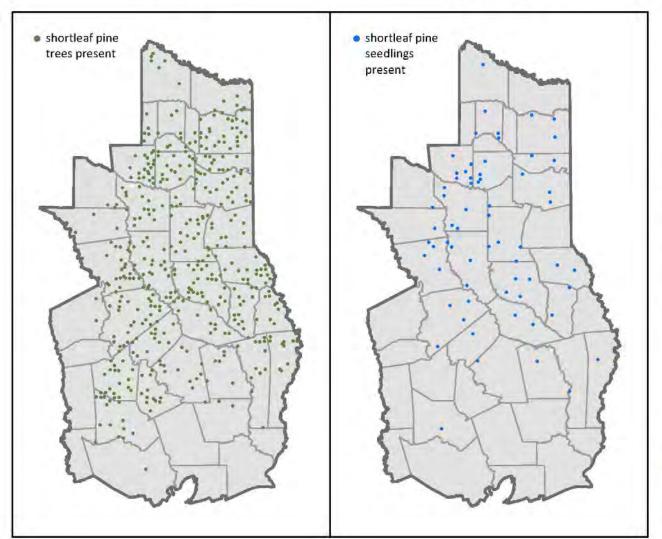




Shortleaf Pine in East Texas, 2013

Trees

Seedlings





FIA plots in East Texas from 2013 inventory (inventory years 2008-2013)

Presence indicates at least one occurrence of shortleaf pine on timberland

Trees are at least 1 inch in diameter; seedlings are less than 1 inch in diameter

0 25 50 100 Miles

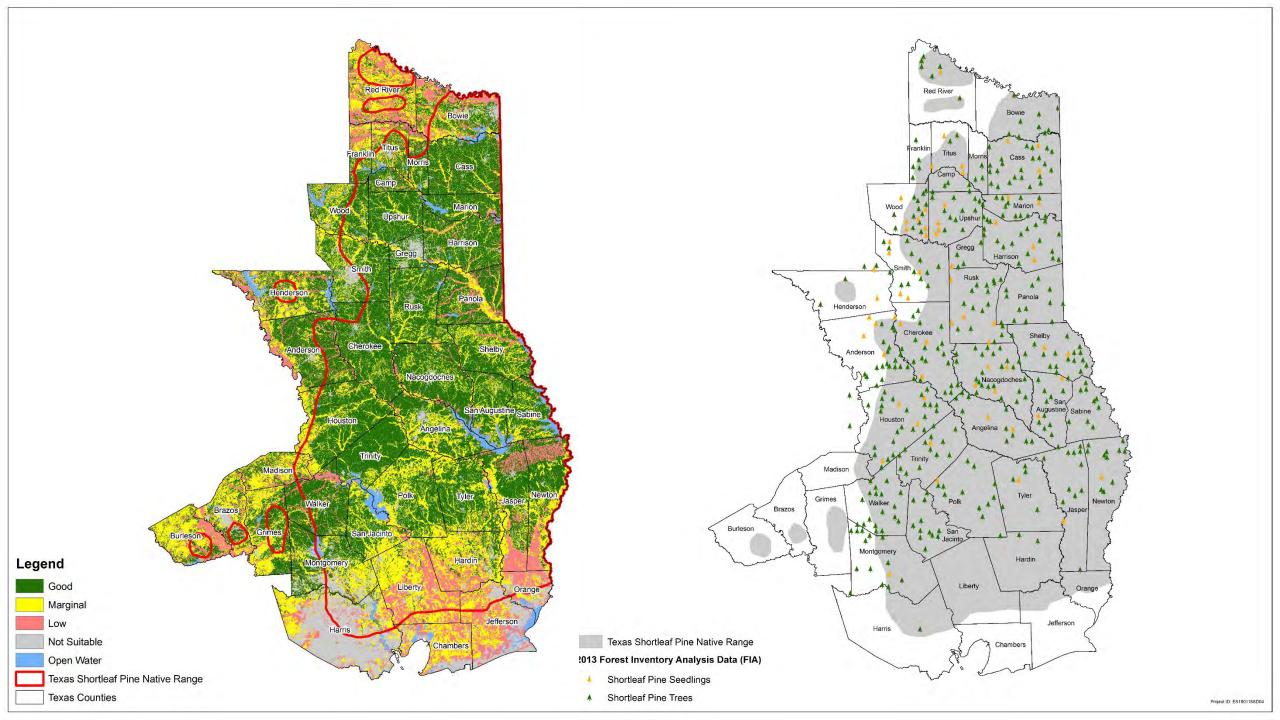
Data downloaded from FIA DataMart (http://www.fia.fs.fed.us/tools-data)

Map prepared by Rebekah Zehnder, Texas A&M Forest Service (rzehnder@tfs.tamu.edu)



Forest Inventory & Analysis http://www.fia.fs.fed.us











Thanks For Your Interest