



Description of western region Tier III site



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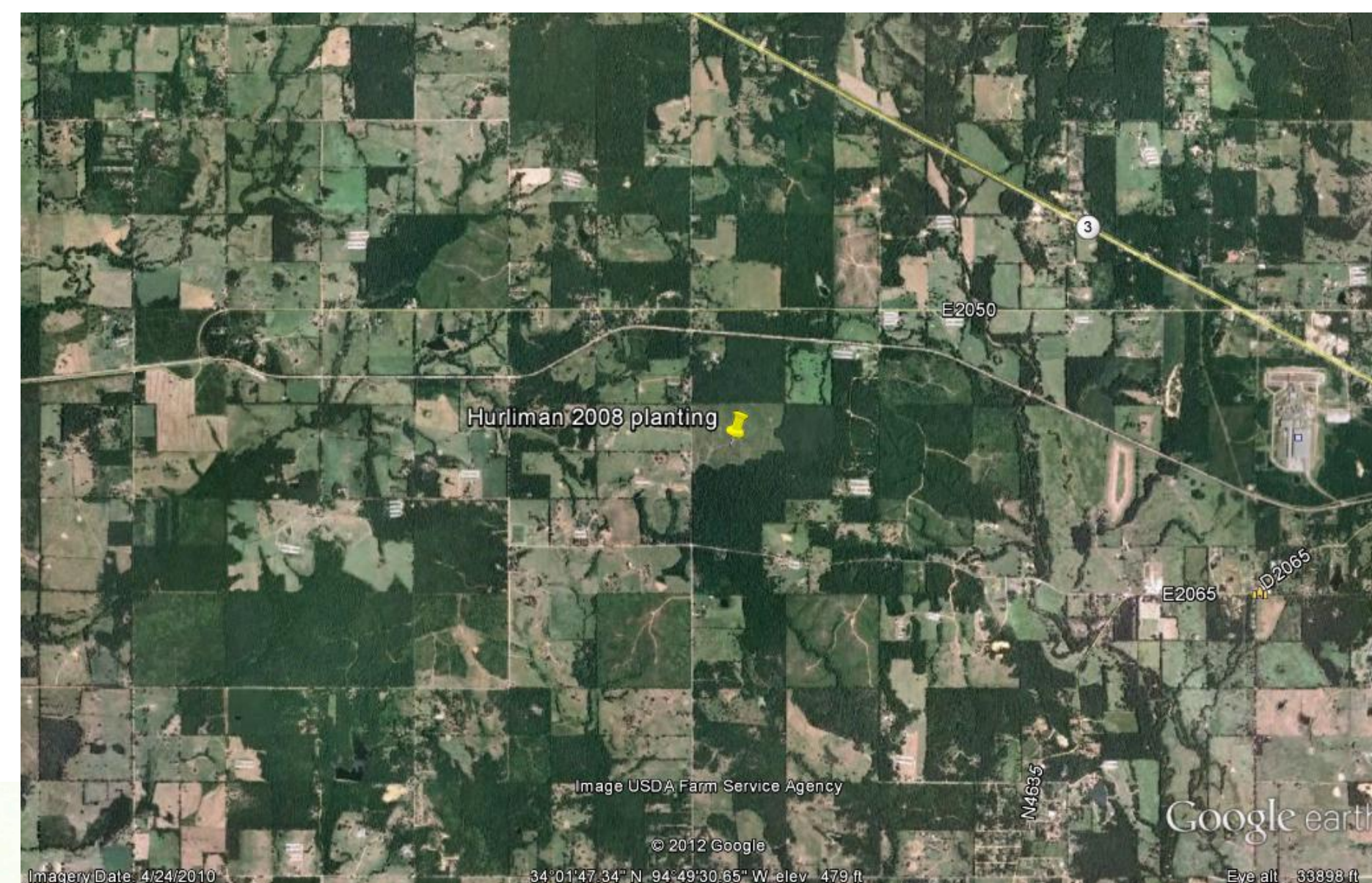
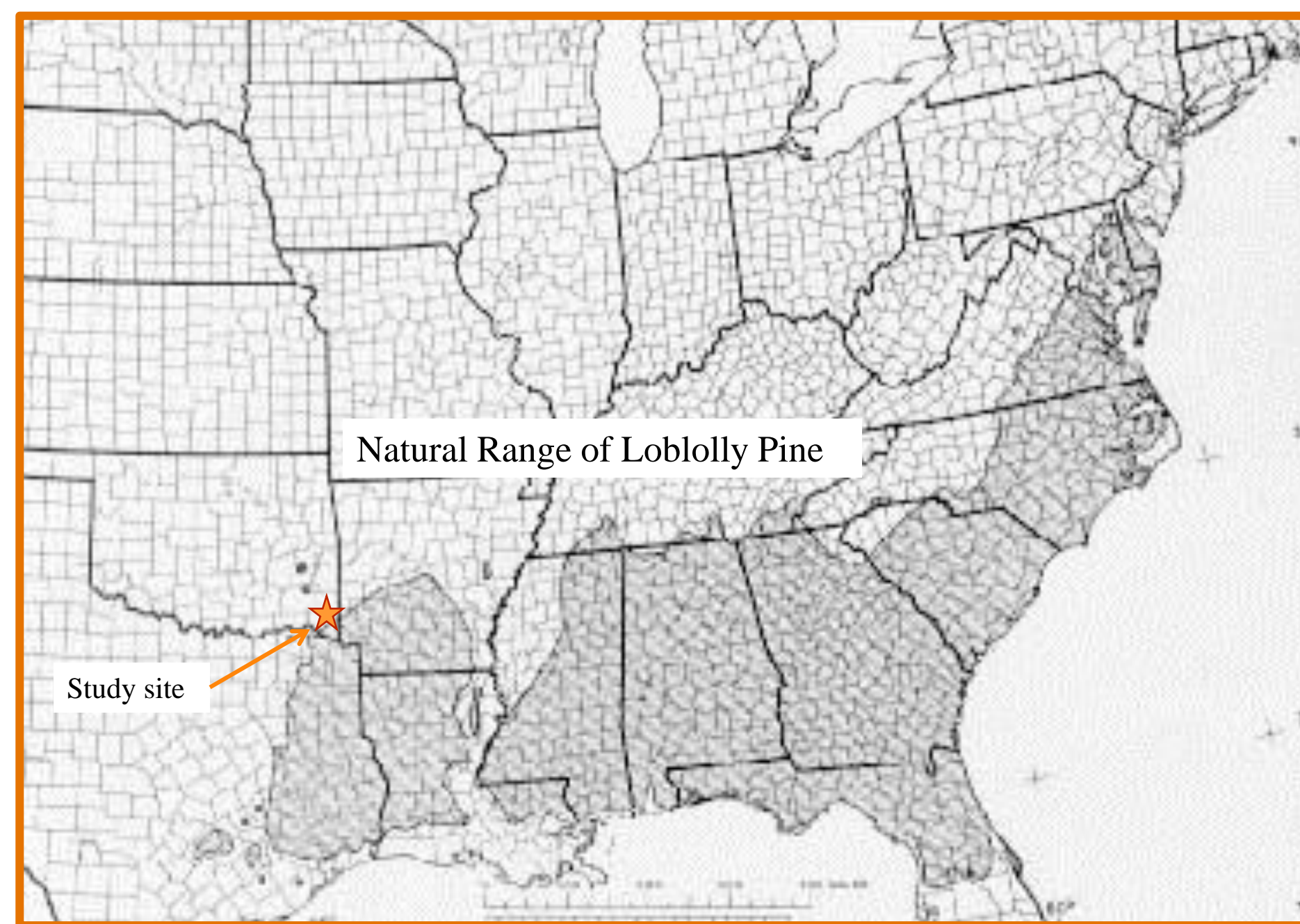
³ Kiamichi Forestry Research Station, Oklahoma State University, Idabel, OK 74745

Location

Near Broken Bow, OK (McCurtain Co.)

- 34° 01' N, 94° 49' W
- 150m elevation

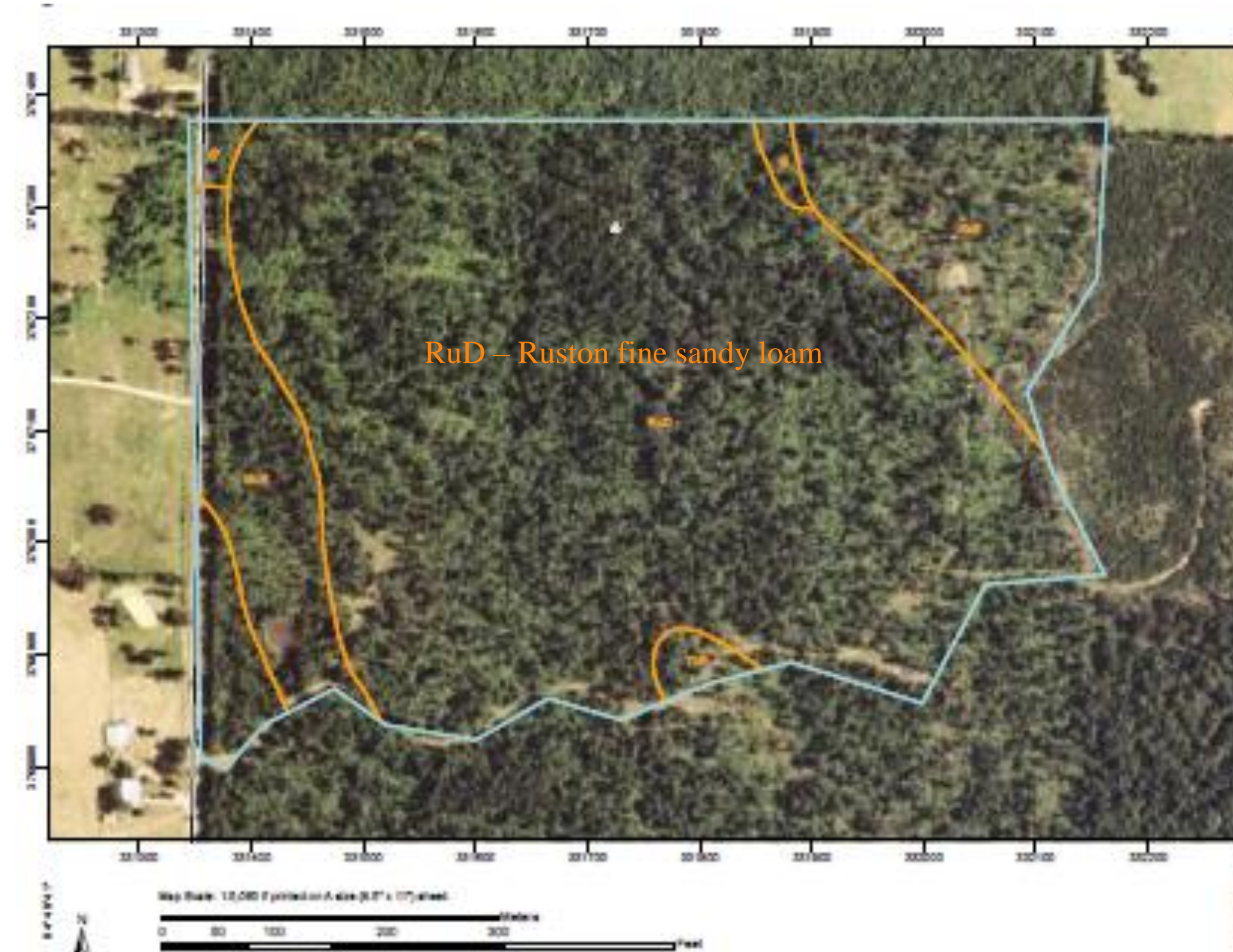
Owned by Mr. Ed Hurliman, Consulting Forester



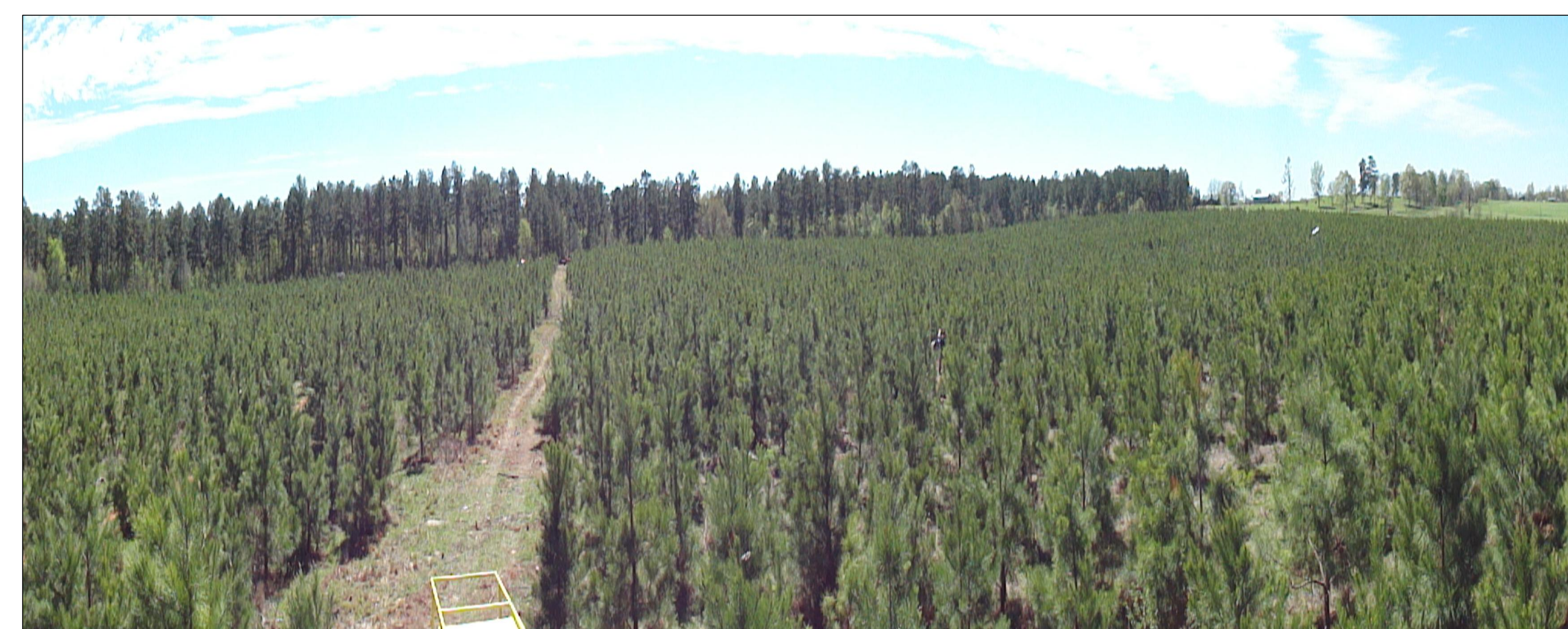
Soil and Site

Soil is a Ruston fine sandy loam

- 3 to 8 percent slope
- Well drained with water table depth > 200 cm
- Typical profile
 - 0 to 9": Fine sandy loam
 - 8 to 52": Sandy clay loam
 - 52 to 72": Sandy clay loam
- Site was ripped along the contour
- Planted in January 2008 with orchard mix of improved Western Gulf 1-0 bare-root seedlings.
- Spacing is approximately 7' x 10' (~620 TPA)
- Chemical control for woody and herbaceous competition



Rainfall exclusion treatment. Tier III site, Broken Bow, Oklahoma (McCurtain County)



Tier III site, Broken Bow, Oklahoma (McCurtain County).

Climate

Precipitation

- Average annual is 137 cm
- Most in May (average 16 cm)
- Least in August (average 7 cm)

Temperature

- Average annual is 16 °C
- Average of 70 days per year with highs > 32 °C
- Average of 60 days per year with lows < 0 °C



Tower and solar panel for weather station and sap flux at Tier III site, Broken Bow, Oklahoma (McCurtain County)

Special thanks to Mr. Ed Hurliman for generously allowing us to use his property for this study.



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