

## **14. GIS Final Exercise/Project**

GIS data can be obtained from many sources: existing GIS shape files and themes, differentially corrected GPS shape files, digitized data from ortho-rectified imagery, geo-referenced quad sheets, traditional, un-rectified aerial imagery, and rectified planimetric maps.

The objective of this laboratory exercise is to combine GIS data from:

- clipped and re-projected GIS shape files and themes
- digitized stand data from geo-referenced imagery
- differentially corrected GPS shape files

and produce a final, cartographically correct map and complete Arc View project.

### **Lab Procedures**

#### **A. Create a New View**

1. Add the clipped and re-projected WGS 84 UTM themes for roads, streams, and lakes from the Starr Forest GIS data sets.
2. Add the digitized stand/type shape files from NAPP photo 195 and/or the planimetric base map.
3. Add the GPS shape files for the harvesting demonstration and rv-park areas

#### **B. Create a New Layout**

4. Create layout at a user-specified scale of 1:36,000.
5. Add appropriate map items such as graphic scale bar, scale statement, proper title (who, what, when, where, how), date, north arrow, legend, etc. in the Layout.

#### **C. Submit Items**

6. Submit a printed, paper copy of your final, cartographically map  
**or**  
an electronic copy (bmp or jpg format) of your map to [rparker@cf.msstate.edu](mailto:rparker@cf.msstate.edu).

**D. Grading Procedures/Items**

Map:

Appropriate and complete title.....	15
Scale bar and RF scale.....	10
North arrow.....	5
Appropriate legend.....	10
Arrangement and aesthetics.....	10

Project:

Correct datum and projection.....	20
Required themes, shape files and items.....	30

Total Value: ..... 100

# Portion of John Starr Memorial Forest

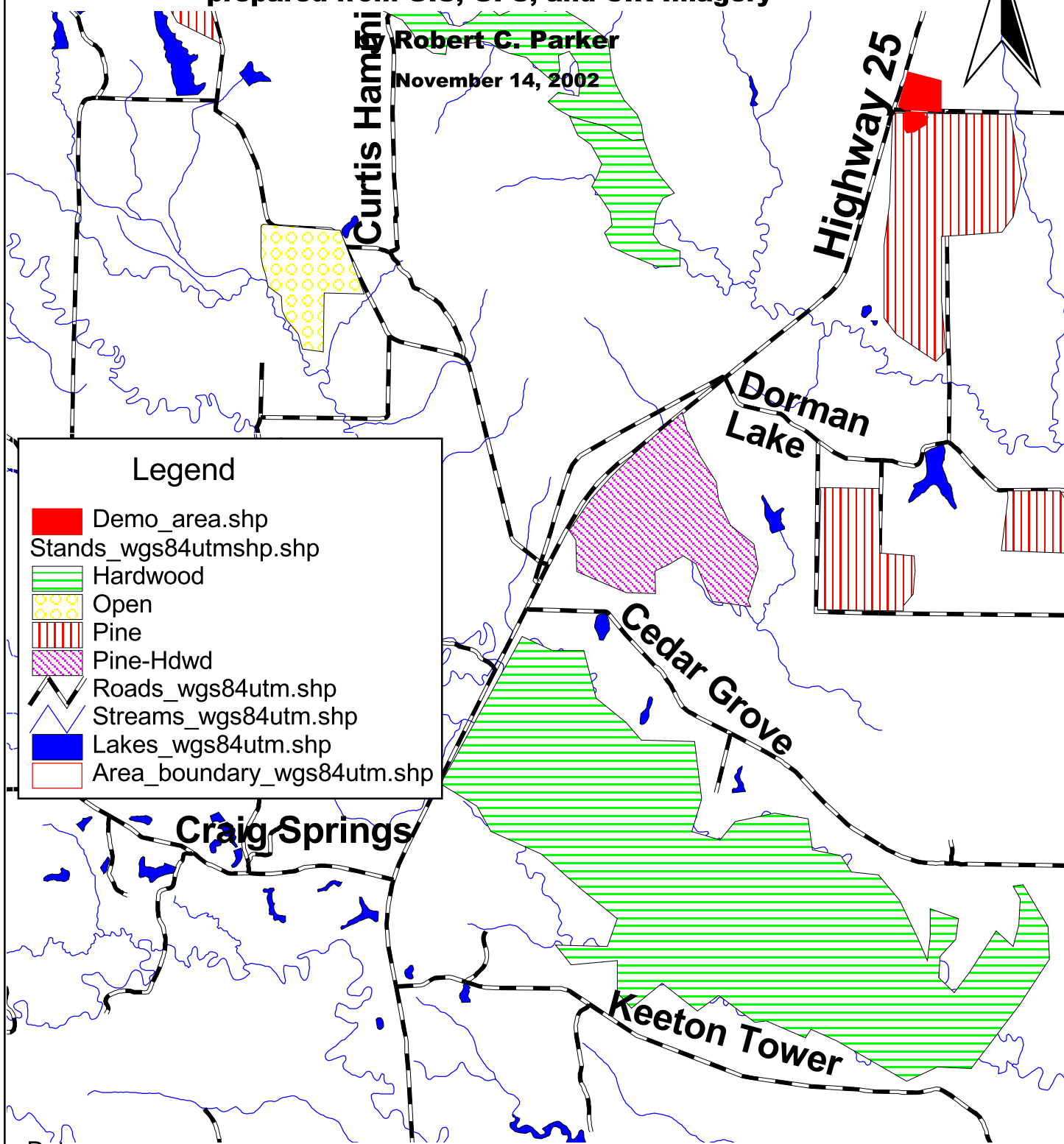
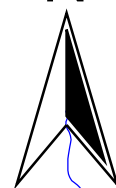
Oktober and Winston Counties, Mississippi

prepared from GIS, GPS, and CIR Imagery


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## Legend

-  Demo\_area.shp
-  Stands\_wgs84utmshp.shp
-  Hardwood
-  Open
-  Pine
-  Pine-Hdwd
-  Roads\_wgs84utm.shp
-  Streams\_wgs84utm.shp
-  Lakes\_wgs84utm.shp
-  Area\_boundary\_wgs84utm.shp

## Data

GIS: John Starr Files

GPS: CMT March 2

Imagery: NAPP 1996 1:40,000 CIR

Datum: WGS 84

Projection: UTM Zone 16N, meters

Scale: 1:36.000

1000 0 1000 2000 Meters

