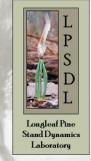


Mapping and Data Management



Presented by

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 School of Forestry and Wildlife Sciences



Alabama Forest Landowners Annual Meeting April 6, 2013



Spatial Opportunities

- Emerging technology
- Basic navigation
- Identify site and stand locations
- Planning and management activities
- Storing and sharing information
- Tools often available online and free



Why Are You Interested in Maps?

- Online mapping and spatial resources
 - Simple Monitoring and Planning
 - Natural Resource Management
- Property searches
 - Tax and appraisal information
- Historical information
 - Land patents
 - Survey notes



Data management and record keeping

Identify Areas of Interest

- Property boundaries
- Timber stands
- Roads
- Gates
- Streamside Management Zones (SMZs)
- Stream Crossings
- Logging decks and hazards
- Wildlife food plots
- Burn plans
- Pastures
- Hunting leases
- Agroforestry/silvopasture areas



Image US Geological Survey © 2012 Google

Basic Types of Maps

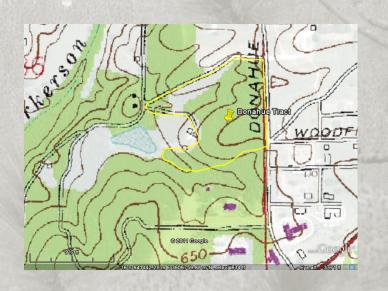
Stand map

Aerial photography

Topographic

Soils information



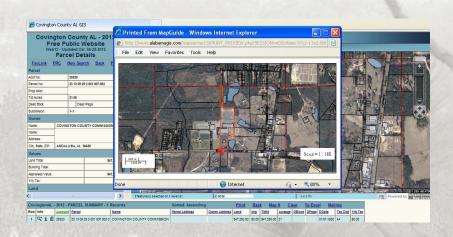


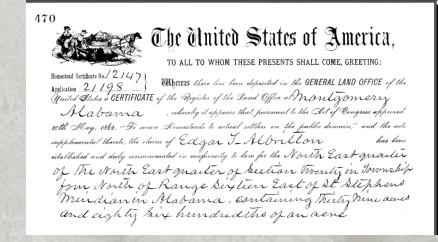
Other Types of Information

 Parcel data and tax information

 Historical aerial photographs

 Land patent or surveyors notes





Mapping Opportunities

- Have you ever been interested in making maps for your property?
- Are you worried it will be too technical or complicated?
- Do you have a computer and internet access?



Online Mapping and Spatial Resources



Mapping Your Land: An Overview for Landowners

Online Mapping and Spatial Resources for the Private Forest Landowner









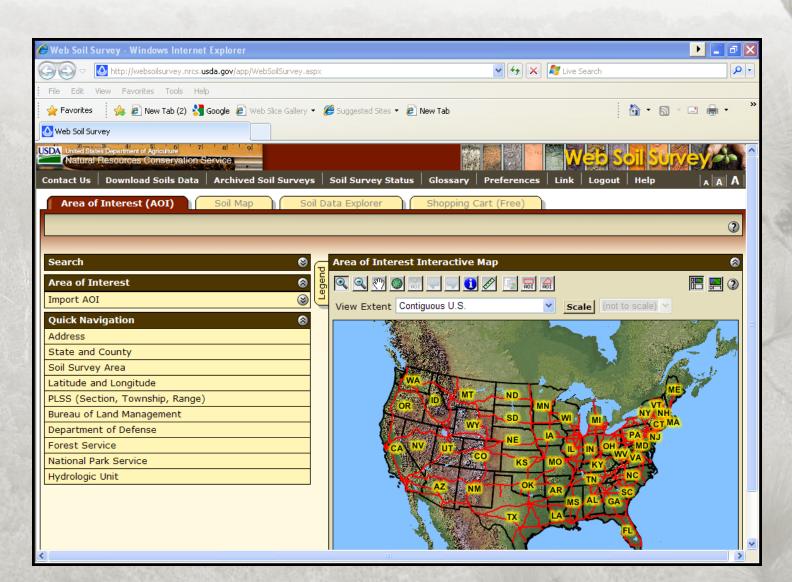
Online Mapping and Spatial Resources for the Private Forest Landowner

- Funding from an Alabama Forests Forever Grant
- 225 copies printed
- See Longleaf Pine Stand Dynamics Lab website: http://www.lpsdl.auburn.edu/
- Booklet available online at: <u>http://www.lpsdl.auburn.edu/pdfs/MappingBook</u> <u>FINAL.pdf</u>

How to Use this Booklet

- Designed for private landowners and conservation professionals
- Provides tutorial information with to help users to make maps, acquire, and store data for an area of interest
- Focus on stand maps, aerial photography, topographic, and soils information
- 5 sections, each with keywords, homepage links, tutorial information, examples, screen-shots, and tips

Section 1: USDA Natural Resources Conservation Service (NRCS) Web Soil Survey

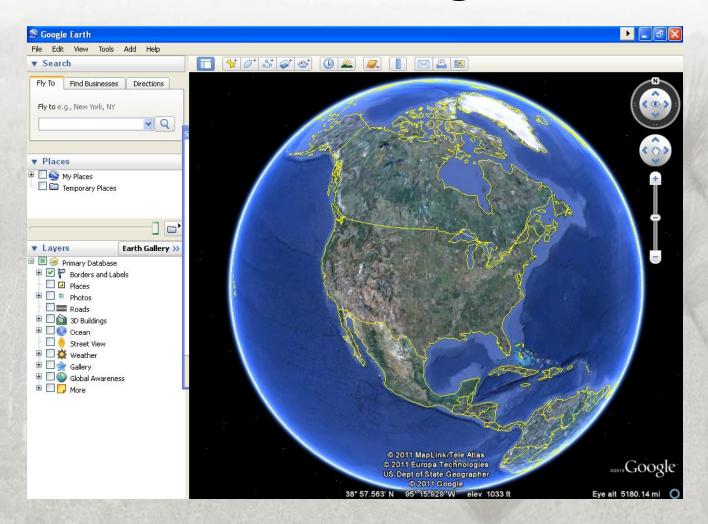


Section 1: USDA Natural Resources Conservation Service (NRCS) Web Soil Survey

- Online application
- Locate a piece of property or an area of interest
- Create a boundary for the area of interest
- Display soil information with aerial photographs and/or topographic layers as backgrounds
- Create maps
- Create basic or detailed soil reports



Section 2: Google Earth



© 2011 MapLink/Tele Atlas, © 2011 Europa Technologies, US Dept of State Geographer, © 2011 Google

Section 2: Google Earth

- Requires downloading a program
- Locate a piece of property or area of interest
- Store location and description information
- Create maps
- Opportunities for improved communication

Section 2: Google Earth Developing a Database

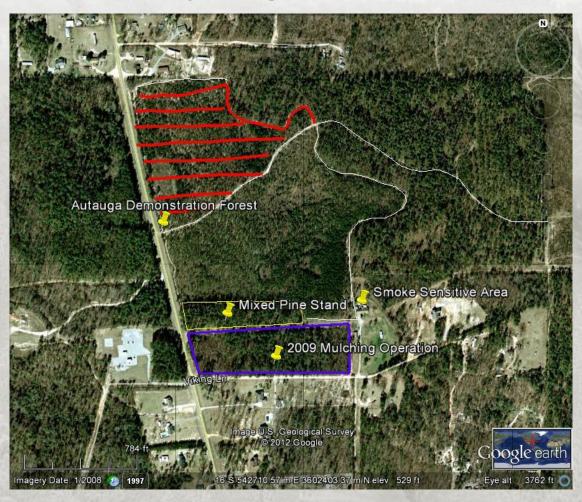
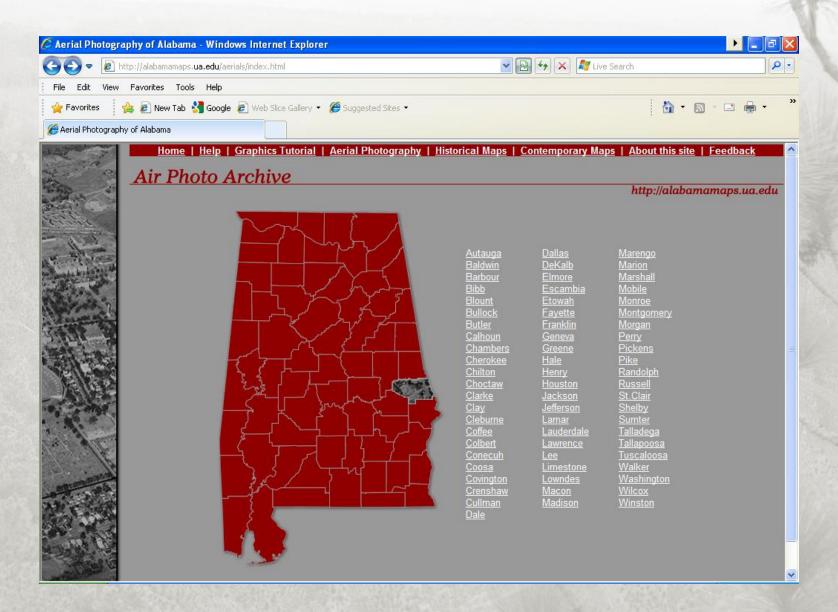


Image US Geological Survey © 2012 Google

Section 3: Alabama Historic Aerial Photo Archive



Section 3: Alabama Historic Aerial Photo Archive

Online application

 View historical aerial photographs

Order digital copies



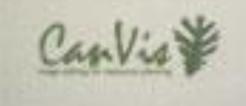
Section 4: NRCS Geospatial Data Gateway

- Online application to search for data
- Requires a Geographic Information System (GIS) or viewer
- For more advanced users
- Search for data (examples include aerial imagery, topographic maps, elevation information, soils, land use land cover, geology, climate data, etc.



Section 5: USDA National Agroforestry Center (NAC) CanVis

- Requires downloading a program or requesting a CD or DVD
- Create visual simulations of potential management options using digital photographs
- Excellent online tutorials and help menus



CanVis Examples

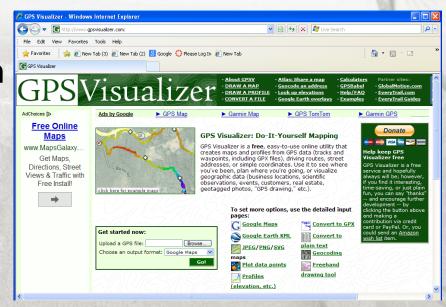


http://www.unl.edu/nac/simulation/examples.htm

Plenty of Additional Options

- Global Positioning System (GPS) Visualizer
- DRN GARMIN/DNR GPS

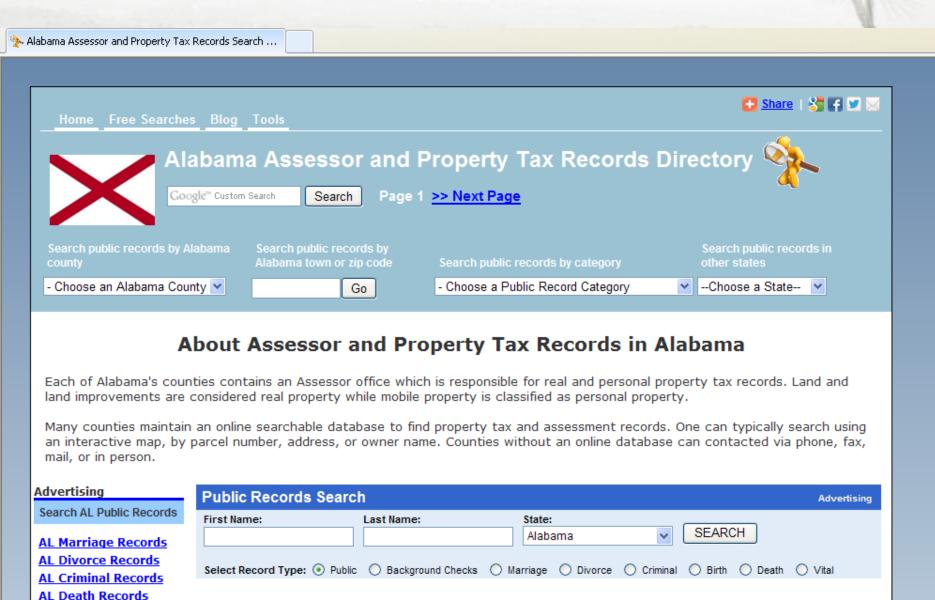
- Forest*A*Syst
- Use your favorite search engine





Property Searches and Information

Property Searches and Tax Information



Lee County, AL Online Assessment and Appraisal Record Search



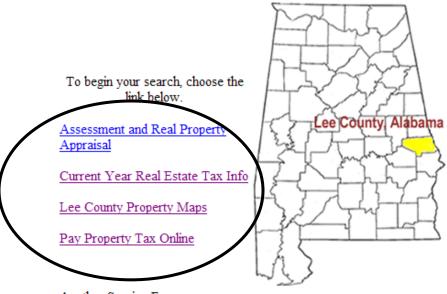
ALABAMA

http://www.leecountyrevenuecommissioner.com/

Lee County, Alabama

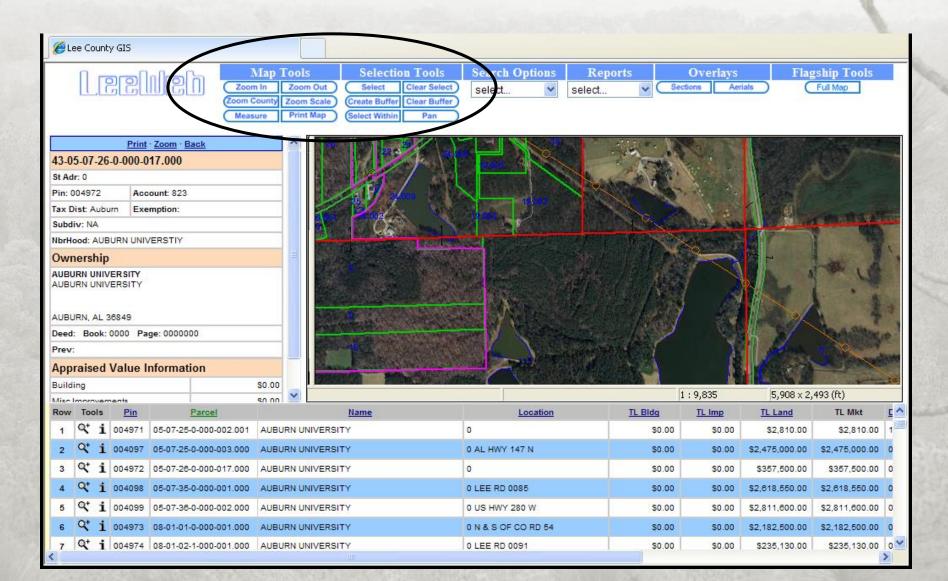
Search Page

Welcome to the Lee County, Alabama online Assessment and Appraisal record search. This search engine provides property tax and appraisal information of record in Lee County, Alabama. This information is updated frequently for the current tax year, but may not reflect actual, up-to-date courthouse records.



Another Service From: Oline W. Price, ACTA Revenue Commissioner

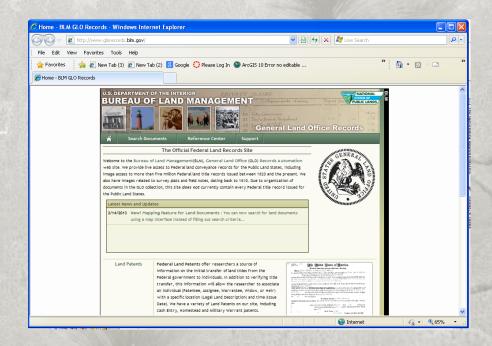
Lee County, AL Online GIS Website Flagship GIS, Inc.



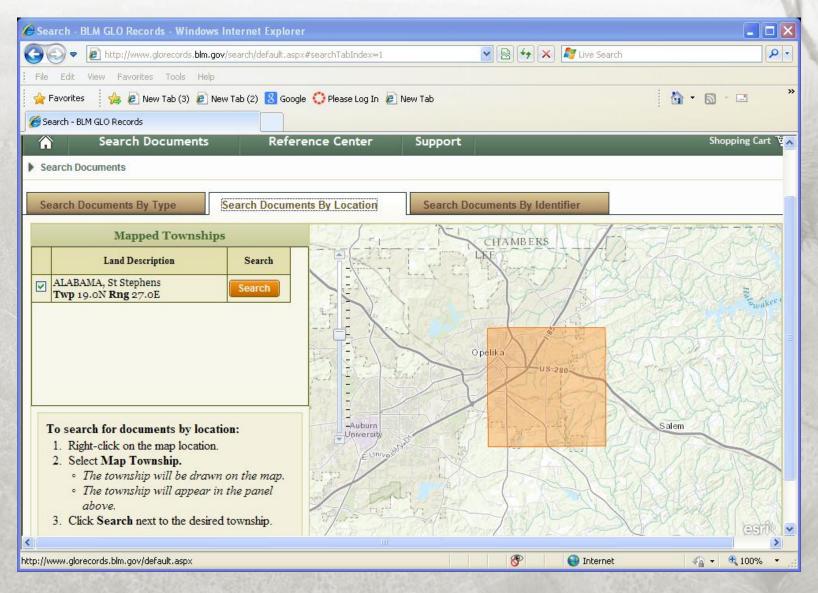
US Dept of the Interior Bureau of Land Management General Land Office Records

Online application

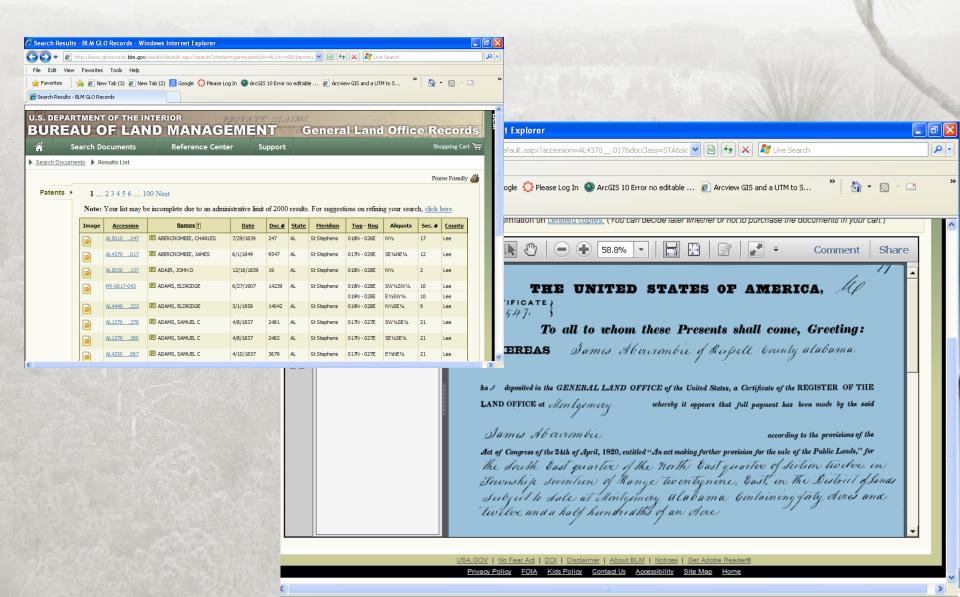
- Information about:
 - Land Patents
 - Survey Plats and FieldNotes
 - Land Status Records
 - New Mapping Feature*



Search Documents by Location



Example Land Patent for Lee County





Data Management and Record Keeping

Can be very overwhelming!

- Definitely time consuming
- Spending time early in the process can help you in the long run (entropy!)

Planning for the future

Data Management and Record Keeping

- Determining information needs
 - Questions to answer
 - File types
 - Conversions
- Organization
 - Paper and digital storage
 - Linking data
 - Backup data
 - Security
 - Planning for the future



Breakout Session

- Presentation and discussion topics
 - Online mapping applications and programs
 - Tax Assessor and Alabama GIS
 - US Dept of the Interior BLM Land Record Searches
 - Data Management

- Handouts
 - Copies of the Mapping Booklet
 - Handout of Links and Keywords

Questions?

