

Mapping and Data Management

Presented by

John Gilbert¹

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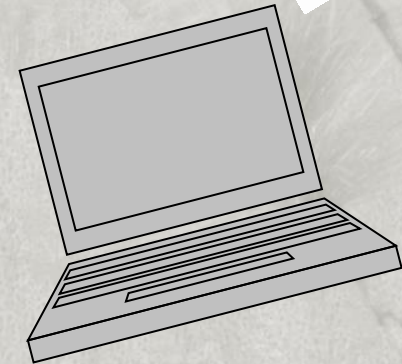
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² Alabama Cooperative Extension System and Longleaf Pine Stand Dynamics Laboratory, Auburn University
School of Forestry and Wildlife Sciences

Alabama Forest Landowners Annual Meeting
April 6, 2013

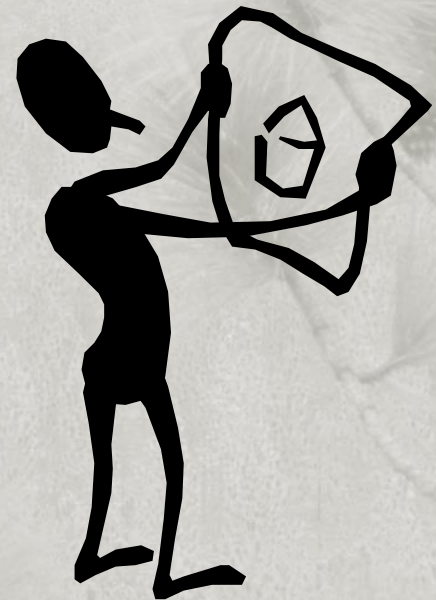
Spatial Opportunities

- 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

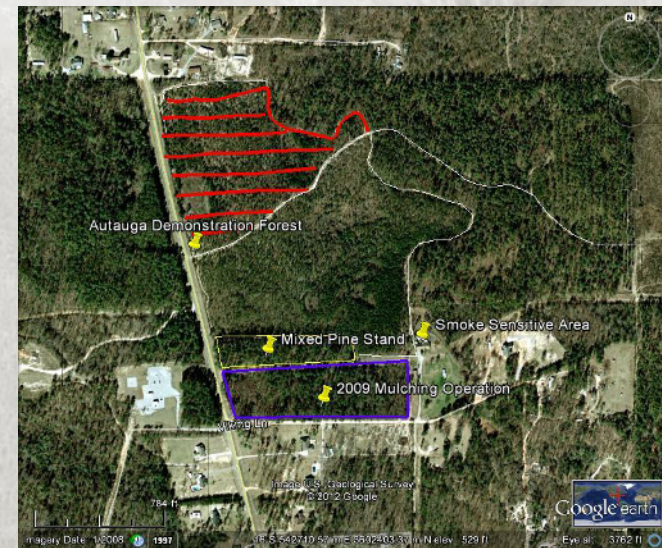
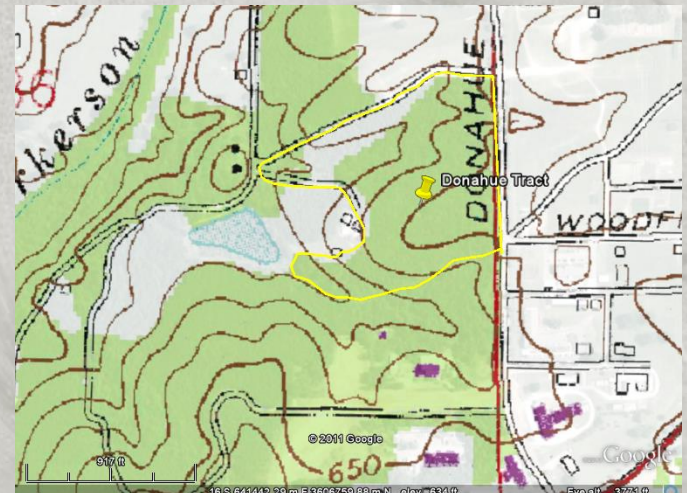


Image US Geological Survey © 2012 Google

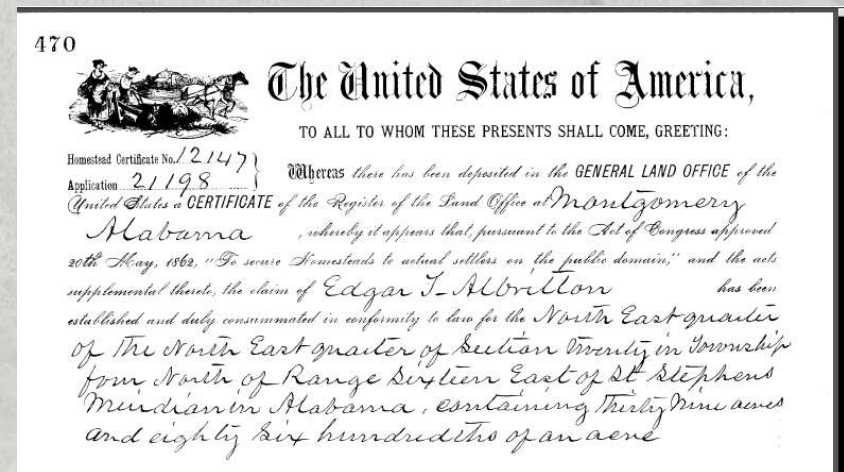
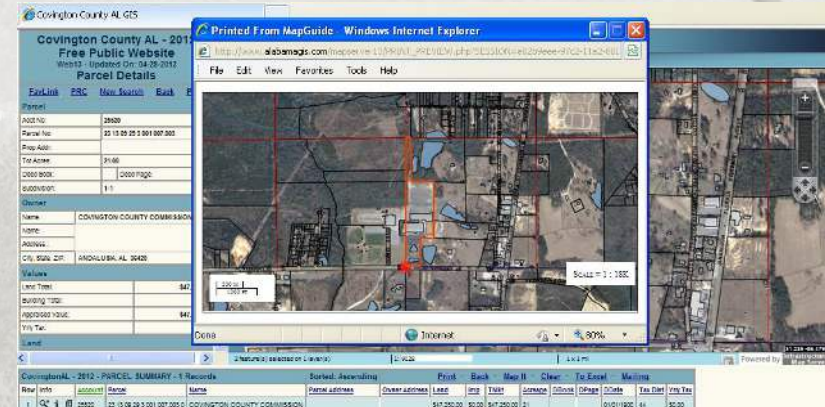
Basic Types of Maps

- 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



Longleaf Pine
Stand Dynamics
Laboratory

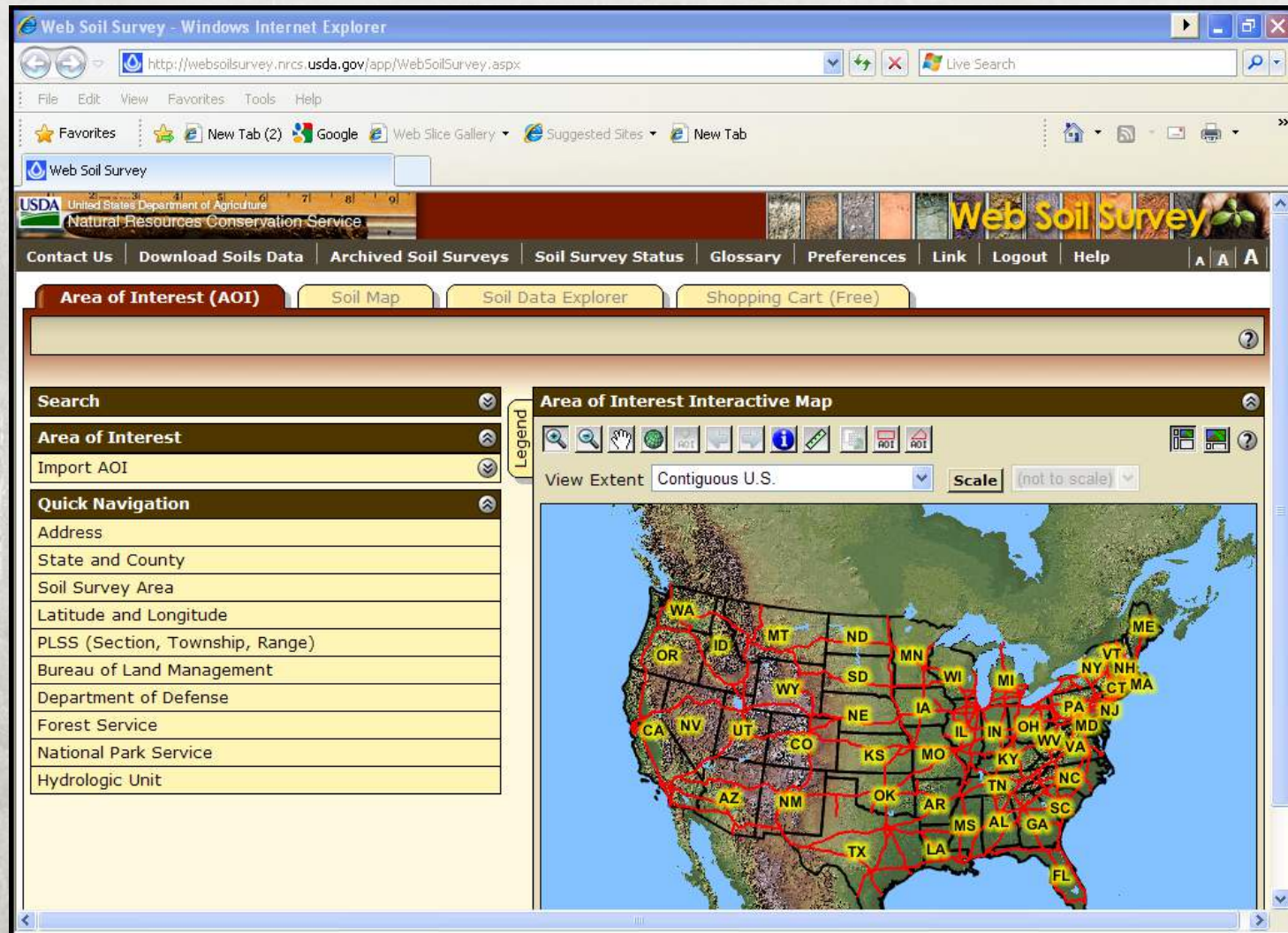
Online Mapping and Spatial Resources for the Private Forest Landowner

- 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:
http://www.lpsdl.auburn.edu/pdfs/MappingBook_FINAL.pdf

How to Use this Booklet

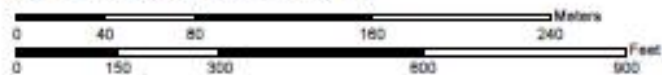
- Designed for private landowners and conservation professionals
- Provides tutorial information with to help users to make maps, acquire, and store data for an area of interest
- Focus on stand maps, aerial photography, topographic, and soils information
- 5 sections, each with keywords, homepage links,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

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



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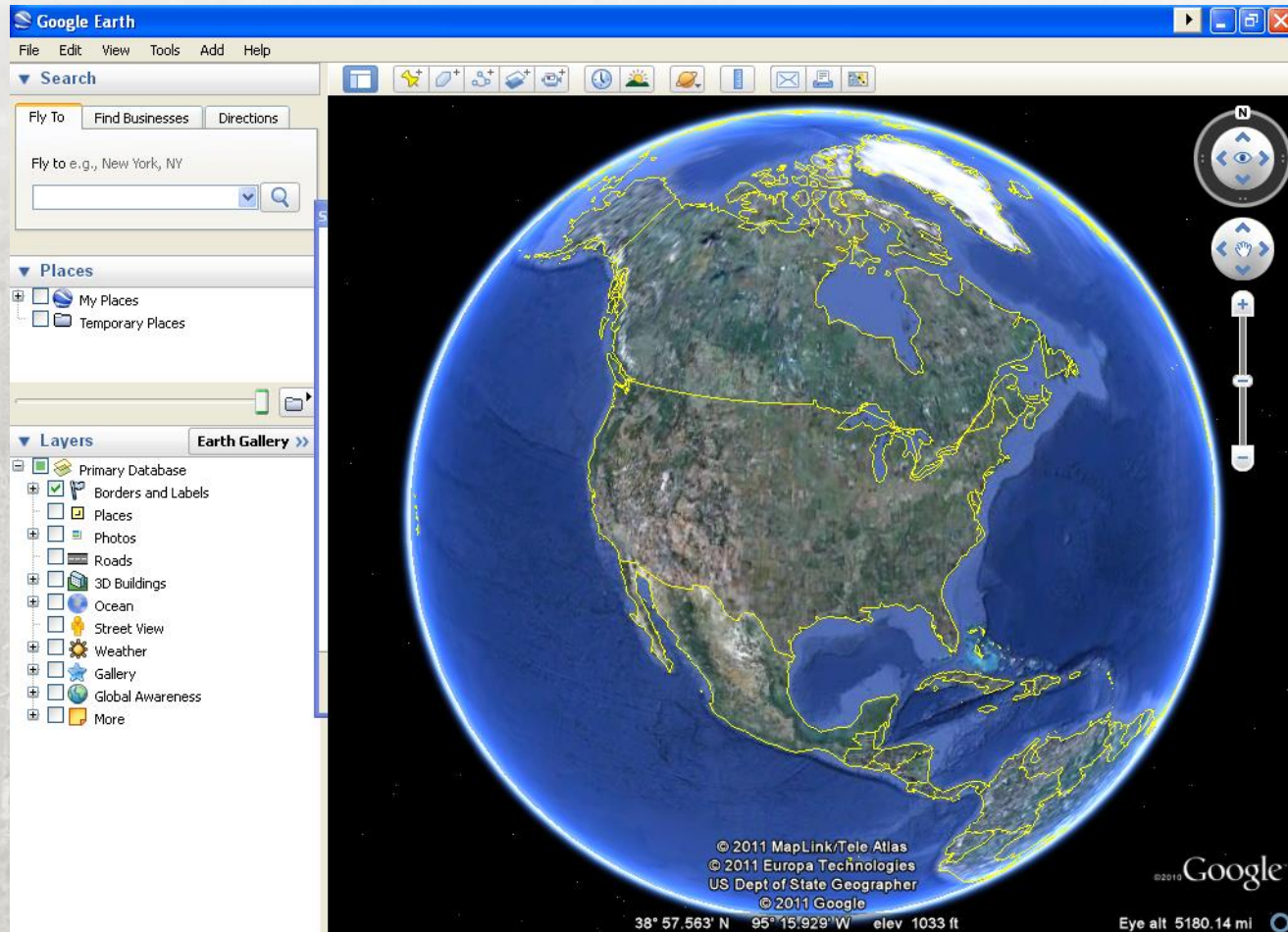
- Online application
- Locate a piece of property or an area of interest
- Create a boundary for the area of interest
- Display soil information with aerial photographs and/or topographic layers as backgrounds
- Create maps
- Create basic or detailed soil reports



Donatius Trest

Lee County, Alabama (AL091)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
24	Myrvyn (sandy sand, 1 to 5 percent slopes)	17.6	71
25	Myrvyn (sandy sand, 6 to 10 percent slopes)	4.5	20
Totals for Areas of Interest		22.0	100

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

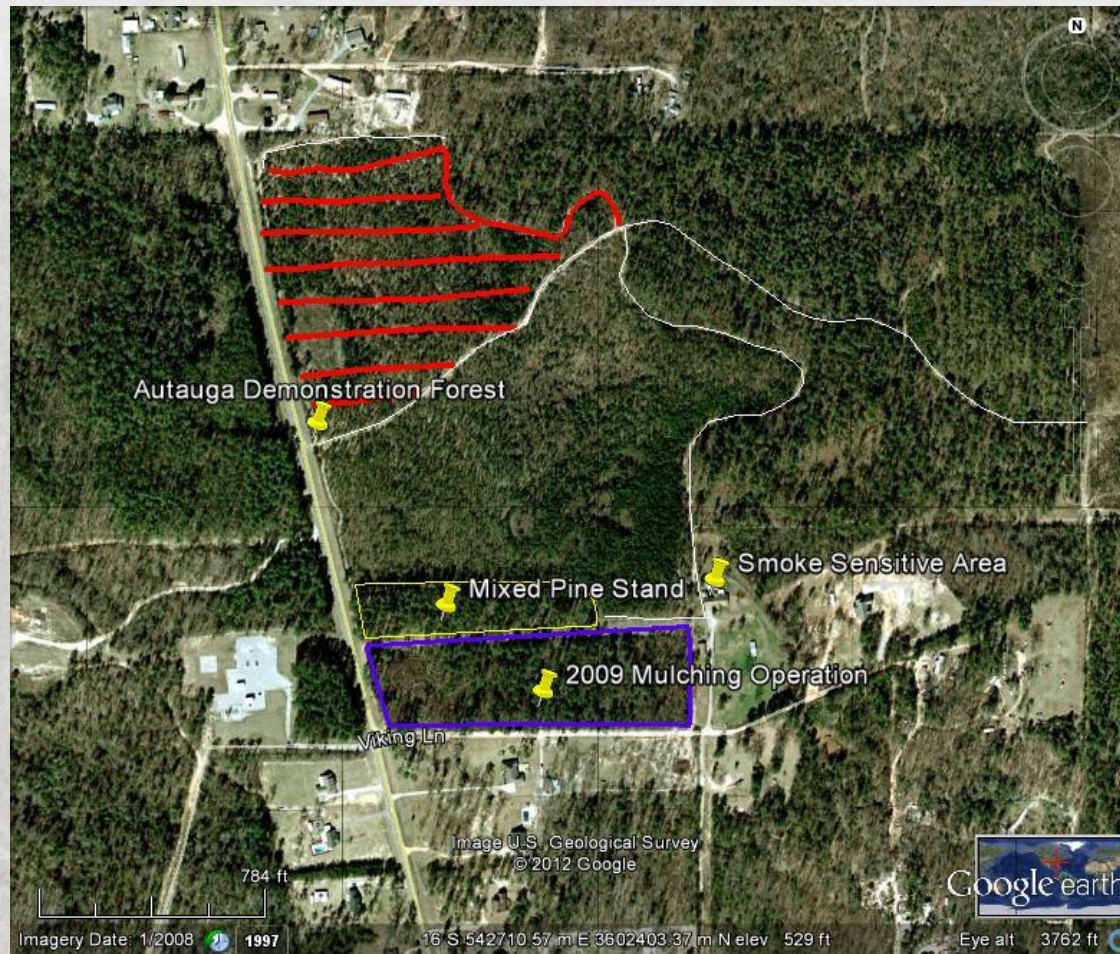
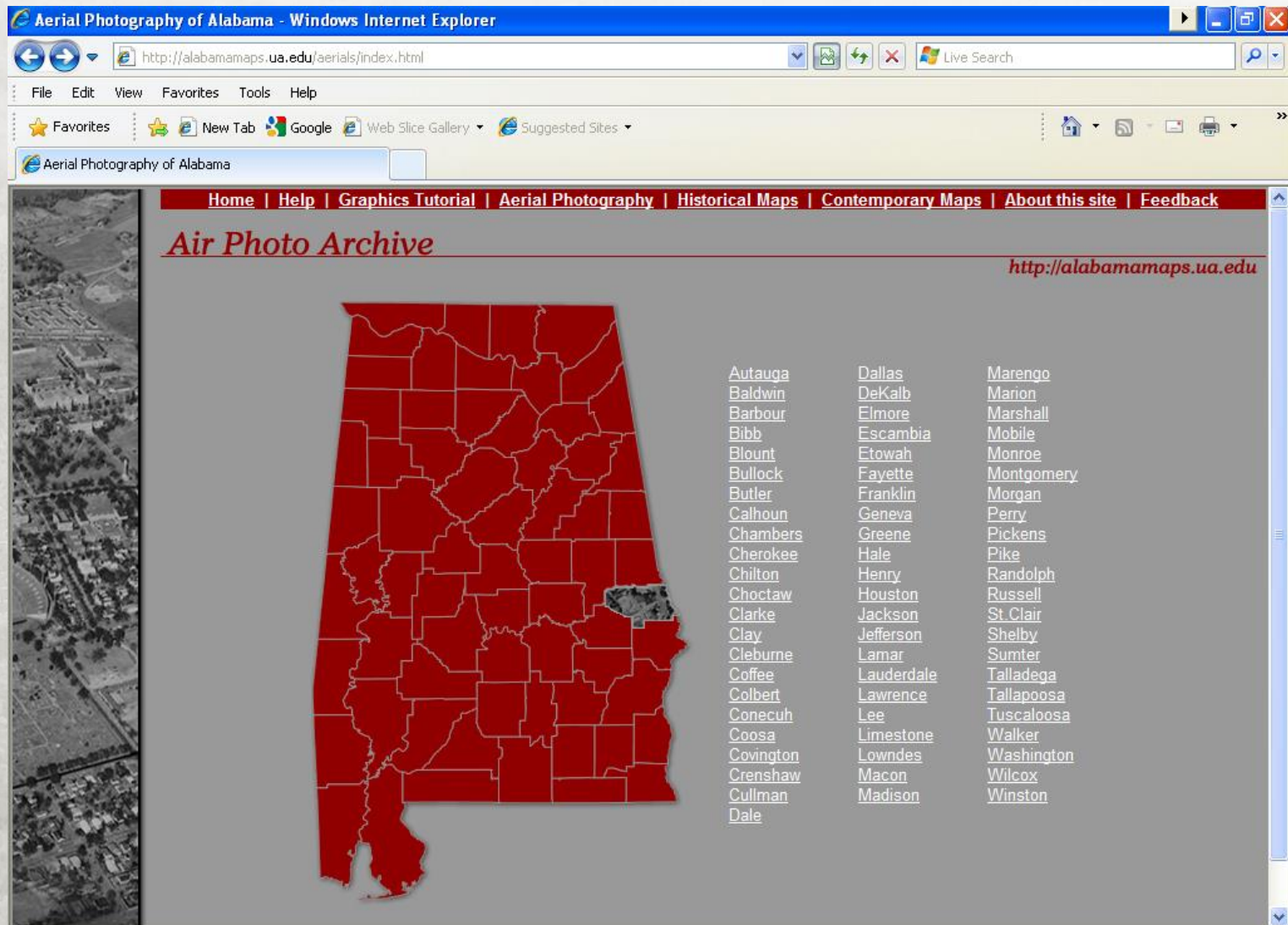


Image US Geological Survey © 2012 Google

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



A grayscale photograph of a dense forest landscape. In the foreground, several pine branches with needles are visible on the right side. The middle ground is filled with a thick canopy of trees, and the background shows rolling hills or mountains shrouded in a thick fog or mist. The overall atmosphere is serene and somewhat mysterious.

Property Searches and Information

Property Searches and Tax Information

Alabama Assessor and Property Tax Records Search ...

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Alabama Assessor and Property Tax Records Directory



Google™ Custom Search

Search

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Search public records by Alabama county

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Search public records by Alabama town or zip code

Go

Search public records by category

- Choose a Public Record Category ▾

Search public records in other states

--Choose a State-- ▾

About Assessor and Property Tax Records in Alabama

Each of Alabama's counties contains an Assessor office which is responsible for real and personal property tax records. Land and land improvements are considered real property while mobile property is classified as personal property.

Many counties maintain an online searchable database to find property tax and assessment records. One can typically search using an interactive map, by parcel number, address, or owner name. Counties without an online database can be contacted via phone, fax, mail, or in person.

Advertising

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[AL Divorce Records](#)

[AL Criminal Records](#)

[AL Death Records](#)

Public Records Search

Advertising

First Name:

Last Name:

State:

Alabama ▾

SEARCH

Select Record Type:

☒ Public

☐ Background Checks

☐ Marriage

☐ Divorce

☐ Criminal

☐ Birth

☐ Death

☐ Vital

Lee County, AL Online Assessment and Appraisal Record Search

Lee County

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.

To begin your search, choose the link below.

[Assessment and Real Property Appraisal](#)

[Current Year Real Estate Tax Info](#)

[Lee County Property Maps](#)

[Pay Property Tax Online](#)



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

Lee County, AL Online GIS Website

Flagship GIS, Inc.

Lee County GIS

LeeWeb

Map Tools | **Selection Tools** | **Search Options** | **Reports** | **Overlays** | **Flagship Tools**

Zoom In | Zoom Out | Select | Clear Select | select... | select... | Sections | Aerials | Full Map

Zoom County | Zoom Scale | Create Buffer | Clear Buffer

Measure | Print Map | Select Within | Pan

Print · Zoom · Back

43-05-07-26-0-000-017.000

St Adr: 0

Pin: 004972 | Account: 823

Tax Dist: Auburn | Exemption:

Subdiv: NA

NbrHood: AUBURN UNIVERSITY

Ownership

AUBURN UNIVERSITY
AUBURN UNIVERSITY

AUBURN, AL 36849

Deed: Book: 0000 | Page: 0000000

Prev:

Appraised Value Information

Building \$0.00

Misc Improvements \$0.00

1 : 9,835 | 5,908 x 2,493 (ft)

Row	Tools	Pin	Parcel	Name	Location	TL Bldg	TL Imp	TL Land	TL Mkt
1		004971	05-07-25-0-000-002.001	AUBURN UNIVERSITY	0	\$0.00	\$0.00	\$2,810.00	\$2,810.00
2		004097	05-07-25-0-000-003.000	AUBURN UNIVERSITY	0 AL HWY 147 N	\$0.00	\$0.00	\$2,475,000.00	\$2,475,000.00
3		004972	05-07-26-0-000-017.000	AUBURN UNIVERSITY	0	\$0.00	\$0.00	\$357,500.00	\$357,500.00
4		004098	05-07-35-0-000-001.000	AUBURN UNIVERSITY	0 LEE RD 0085	\$0.00	\$0.00	\$2,618,550.00	\$2,618,550.00
5		004099	05-07-36-0-000-002.000	AUBURN UNIVERSITY	0 US HWY 280 W	\$0.00	\$0.00	\$2,811,600.00	\$2,811,600.00
6		004973	08-01-01-0-000-001.000	AUBURN UNIVERSITY	0 N & S OF CO RD 54	\$0.00	\$0.00	\$2,182,500.00	\$2,182,500.00
7		004974	08-01-02-1-000-001.000	AUBURN UNIVERSITY	0 LEE RD 0091	\$0.00	\$0.00	\$235,130.00	\$235,130.00

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

- Online application
- Information about:
 - Land Patents
 - Survey Plats and Field Notes
 - Land Status Records
 - New Mapping Feature*



Search Documents by Location

Search - BLM GLO Records - Windows Internet Explorer

http://www.glorerecords.blm.gov/search/default.aspx#searchTabIndex=1

File Edit View Favorites Tools Help

Search - BLM GLO Records

Search Documents Reference Center Support Shopping Cart

Search Documents

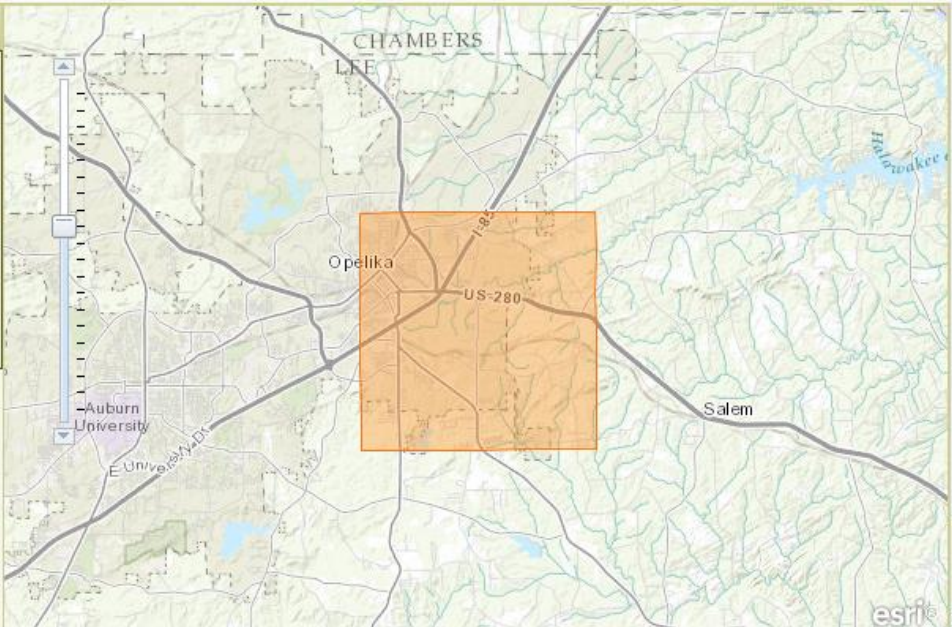
Search Documents By Type Search Documents By Location Search Documents By Identifier

Mapped Townships

	Land Description	Search
<input checked="" type="checkbox"/>	ALABAMA, St Stephens Twp 19.0N Rng 27.0E	<input type="button" value="Search"/>

To search for documents by location:

1. Right-click on the map location.
2. Select **Map Township**.
 - The township will be drawn on the map.
 - The township will appear in the panel above.
3. Click **Search** next to the desired township.



http://www.glorerecords.blm.gov/default.aspx

Internet 100%

Example Land Patent for Lee County

Search Results - BLM GLO Records - Windows Internet Explorer

http://www.glorecords.blm.gov/results/default.aspx?searchCriteria=type=patent|st=AL|city=081|sp=tru

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT General Land Office Records

Search Documents Reference Center Support Shopping Cart

Search Documents Results List

Patents 1 ... 2 3 4 5 6 ... 100 Next

Note: Your list may be incomplete due to an administrative limit of 2000 results. For suggestions on refining your search, [click here](#).

Image	Accession	Names	Date	Doc #	State	Meridian	Trp - Rng	Aliquots	Sec. #	County
	AL5010...247	ABERCROMBIE, CHARLES	7/29/1839	247	AL	St Stephens	018N - 026E	N1/4	17	Lee
	AL4370...017	ABERCROMBIE, JAMES	6/1/1849	9547	AL	St Stephens	017N - 029E	SE1/4NE1/4	12	Lee
	AL5030...137	ADAIR, JOHN D	12/16/1839	19	AL	St Stephens	018N - 028E	N1/4	2	Lee
	MY-0617-043	ADAMS, ELDRIDGE	6/27/1907	14239	AL	St Stephens	019N - 028E	SW1/4SW1/4	10	Lee
	AL4440...323	ADAMS, ELDRIDGE	3/1/1858	14042	AL	St Stephens	019N - 028E	E1/4SW1/4	10	Lee
	AL1370...379	ADAMS, SAMUEL C	4/8/1837	2481	AL	St Stephens	017N - 027E	SW1/4SE1/4	21	Lee
	AL1370...380	ADAMS, SAMUEL C	4/8/1837	2482	AL	St Stephens	017N - 027E	SE1/4SE1/4	21	Lee
	AL4250...057	ADAMS, SAMUEL C	4/10/1837	3679	AL	St Stephens	017N - 027E	E1/4NE1/4	21	Lee

Internet Explorer

default.aspx?accession=AL4370...017&docClass=STA&sic

Information on [certified copies](#). (You can decide later whether or not to purchase the documents in your cart.)

Comment Share

THE UNITED STATES OF AMERICA,

CERTIFICATE

To all to whom these Presents shall come, Greeting:

WHEREAS James Abercrombie of Russell County Alabama

has deposited in the GENERAL LAND OFFICE of the United States, a Certificate of the REGISTER OF THE LAND OFFICE at Montgomery whereby it appears that full payment has been made by the said James Abercrombie according to the provisions of the Act of Congress of the 24th of April, 1820, entitled "An act making further provision for the sale of the Public Lands," for the South East quarter of the North East quarter of Section twelve in Township Seventeen of Range twenty-nine, East, in the District of lands Subject to Sale at Montgomery Alabama containing forty Acres and twelve and a half hundredths of an Acre

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Data Management

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?

