

7.5 Minute Quadrangle Project

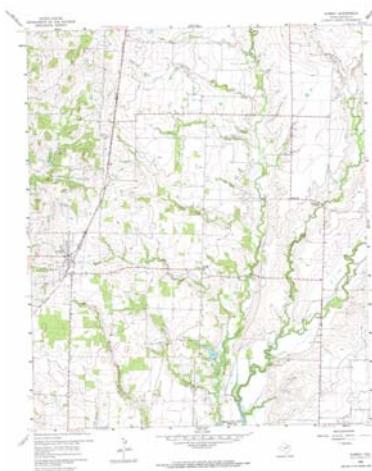
Mark Phillips

DLC – October 18, 2010



Overview

- Background
- Goals
- Process
- Challenges
- Next Steps
- Questions



Background



- UNT Libraries Digital Projects Unit
 - Infrastructure, workflows, tools, digital preservation services for UNT
- Portal to Texas History
 - 140+ Partners around the State of Texas
 - 114,000+ Items
 - 1,000,000+ Images

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USGS Topo Maps

- 7.5 minute 1:24,000 scale (completed 1992)
- 55,000 maps covering 48 states
- Digital Raster Graphic (DRG) editions produced 1995-1998
- Files
 - Geotiff - .tif
 - Metadata file - .fgd
 - World file - .tfw
- 4,281 maps for Texas



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Goals

- Acquire, describe and provide access to a large set of digital map content
- Expose the 7.5 Minute Quadrangles to a different audience
- Investigate methods for automatic metadata creation
- Improve access points to Quadrangle maps.
- Provide “data access” for GIS users and “real world” access for everyone else

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Process



- Locate Maps
- Harvest Maps
- Map existing metadata
- Extract additional metadata based on location
- Create metadata records
- Ingest into repository

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Metadata Lookup



- County lookup for 9 points via Google
- Named place lookup using Geonames Web-services
- Custom location normalization script

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The screenshot shows the homepage of The Portal to Texas History. At the top, there's a search bar with options for 'Everything', 'Books', 'Maps', 'Photos', and 'Newspapers'. Below the search bar, there are three main featured sections: 'About the Portal' (describing it as a gateway to Texas history materials), 'Resources for Educators' (offering teaching materials), and 'Recent Additions' (listing new digital collections). To the right, there's a 'Featured Collection' section for the 'USGS Topographic Map Collection' (with a thumbnail image of a map) and a 'Featured Partner' section for the 'Anderson County Historical Commission' (with a thumbnail image of a historical document). The footer contains links for 'Contact Us', 'Technical problems?', 'Links', 'Disclaimer', 'AA/EOE/ADA', and 'Privacy Statement'.

[About this collection USGS](#)

texashistory.unt.edu/explore/collections/USTOPO/

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About this Collection Explore this Collection Explore all Collections

USGS Topographic Map Collection

Search within this Collection

Everything | Books | Maps | Photos | Newspapers

fulltext Advanced Search

Description Collection Contributors Recent Additions

The United States Geological Survey (USGS) is the largest civilian mapping agency in the country (in addition to many other scientific endeavors). As part of their project, each region of the United States has been divided into square "quadrangles" and mapped. The "quadrangle" maps include states (excluding parts of Alaska), territories, and trusts of the United States.

Between 1895 and 1998, more than 80,000 of the maps were scanned to make them available in a digital format, though not every state was represented in the digitization project. The original maps were created over the previous three to four decades on paper before being scanned. Since then, newer maps have been created as "born digital" objects at higher standards than the previous ones.

Each of the Digital Vector Graphic (DVG) maps in this collection was scanned by USGS from a standard topographic map depicting a specific quadrangle. This collection is also limited to just over 4,200 maps covering Texas and border areas (though most of the United States and territories are online at the USGS site).

For more information about the United States Geological Survey, visit: <http://www.usgs.gov/>

For more information about DVG maps and the USGS digitization projects, visit: <http://topomaps.usgs.gov/dvg/>

Contact Us Technical problems? Links

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Links



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beta.texashistory.unt.edu/explore/collections/USTOPO/browse/

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Home Search **Explore** About Help

About this Collection Explore this Collection Explore all Collections

County:

- Brewster County, TX (118)
- Beecher County, TX (98)
- Hudspeth County, TX (73)
- Culberson County, TX (68)
- Presidio County, TX (75)
- More...

Decade:

- 2000-2009 (0)
- 1900-1909 (571)
- 1940-1949 (1507)
- 1970-1979 (1520)
- 1950-1959 (541)
- More...

Search Inside the USGS Topographic Map Collection

Everything | Books | Maps | Photos | Newspapers

fulltext Advanced Search

You limited your search to:
 Collection: USGS Topographic Map Collection

Results 1 - 10 of 4,276 Sort by: Best Match

7 L Ranch Quadrangle
Date: 1991
Creator: Geological Survey (U.S.)
Description: Topographic map of a portion of Texas from the United States Geological Survey (USGS) project. The map includes towns, historic or notable sites, bodies of water, and other geographic features. Scale 1:24,000.
Contributing Partner: UNT Libraries Government Documents Department



Abbott Quadrangle
Date: 1979
Creator: Geological Survey (U.S.)
Description: Topographic map of a portion of Texas from the United States Geological Survey (USGS) project. The map includes towns, historic or notable sites, bodies of water, and other geographic features. Scale 1:24,000.
Contributing Partner: UNT Libraries Government Documents Department



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County:

- El Paso County, TX (118)
- Pecos County, TX (99)
- Hudspeth County, TX (72)
- Gaines County, TX (78)
- Presidio County, TX (72)
- More...

Decade:

- 2000-2009 (3)
- 1900-1929 (571)
- 1930-1939 (148)
- 1970-1979 (1,228)
- 1950-1969 (541)
- More...

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Everything Books Maps Photos Newspapers

fulltext Submit Advanced Search Search Help

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Collection: USGS Topographic Map Collection

Results 1 - 24 of 4,276

Sort by: Best Match

71 Ranch Quadrangle Abbott Quadrangle Abell Quadrangle Abemathy Quadrangle

Alternity Sw Quadrangle Abilene East Quadrangle Abilene West Quadrangle Ables Springs Quadrangle

Denton Quadrangle

Argyle Quadrangle

Date: 1978
Creator: Geological Survey (U.S.)
Description: Topographic map of a portion of Texas from the United States Geological Survey (USGS) project. The map includes towns, historic or notable sites, bodies of water, and other geographic features. Scale 1:24,000.
Contributing Partner: UNT Libraries Government Documents Department

Aubrey Quadrangle

Date: 1978
Creator: Geological Survey (U.S.)
Description: Topographic map of a portion of Texas from the United States Geological Survey (USGS) project. The map includes towns, historic or notable sites, bodies of water, and other geographic features. Scale 1:24,000.
Contributing Partner: UNT Libraries Government Documents Department

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beta.texashistory.unt.edu/explore/collections/USTOPO/browse/?q=Denton%20County

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County:

- Denton County, TX (99)
- Cooke County, TX (8)
- Wise County, TX (5)
- Collin County, TX (4)
- Tarrant County, TX (4)
- More...

Decade:

- 1960-1969 (10)
- 1970-1979 (16)
- 1950-1959 (4)

Search Inside the USGS Topographic Map Collection

Everything Books Maps Photos Newspapers

Denton County fulltext Submit Advanced Search Search Help

You limited your search to:

Collection: USGS Topographic Map Collection

Results 1 - 10 of 30

Sort by: Best Match

Denton Quadrangle

Argyle Quadrangle

Date: 1978
Creator: Geological Survey (U.S.)
Description: Topographic map of a portion of Texas from the United States Geological Survey (USGS) project. The map includes towns, historic or notable sites, bodies of water, and other geographic features. Scale 1:24,000.
Contributing Partner: UNT Libraries Government Documents Department

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Date: 1978
Creator: Geological Survey (U.S.)
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Aubrey Quadrangle - The Portal to Texas History

Denton, Texas, Callahan Co.

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Aubrey Quadrangle

Brief Record Full Record



Description: Topographic map of a portion of Texas from the United States Geological Survey (USGS) project. The map includes towns, historic or notable sites, bodies of water, and other geologic features. Scale 1:24,000.

Creator: Geological Survey (U.S.)

Location: United States - Texas - Denton County - Mustang

Location: United States - Texas - Denton County - Aubrey

Location: United States - Texas - Denton County - Spring Hill

Location: United States - Texas - Denton County - Krugerville

Creation Date: 1978

Partner(s): UNT Libraries Government Documents Department
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Collection(s): USGS Topographic Map Collection
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Aubrey Quadrangle - The Portal to Texas History

Denton, Texas, Callahan Co.

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Creator (Cartographer): Geological Survey (U.S.)



Publisher Info: Publisher Name: Geological Survey (U.S.)
 Place of Publication: Reston, Virginia

Original Creation Date: 1978

Coverage:
 Place: United States - Texas - Denton County - Mustang
 Place: United States - Texas - Denton County - Aubrey
 Place: United States - Texas - Denton County - Spring Hill
 Place: United States - Texas - Denton County - Krugerville
 Era: The Texas Landscape

Description: Topographic map of a portion of Texas from the United States Geological Survey (USGS) project. The map includes towns, historic or notable sites, bodies of water, and other geologic features. Scale 1:24,000.

Notes: Digital Raster Graphic (DRG) was created on 1997-01-10 from a source map published in 1978.

Physical Description: 1 map : col. ; 19 x 55 cm.

Language: English

Subject(s):

- UNTL-B3 : Landscape and Nature - Geography and Maps
- UNTL-H3 : Places - United States - Texas - Denton County
- LCGH : Texas - Maps, Topographic
- LCSH : Texas -- Surveys

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Denton, Texas, Callahan County

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Subject(s):	<ul style="list-style-type: none"> UNT1_H5 : Landscapes and Nature - Geography and Maps UNT1_BS : Places - United States - Texas - Denton County LGRH : Texas - Maps, Topographic LCSH : Texas - Surveys. 		
Keyword(s):	maps topographic maps survey maps geological maps OHIS maps topography geological surveys elevations quadrangle maps		
Series Title:	Digital Raster Graphic Topographic Maps: 7.5 Minute Series (Topographic)		
Partner:	UNT Libraries Government Documents Department About Browse Partner Holdings		
Collection:	USGS Topographic Map Collection About Browse this Collection		
Identifier:	<ul style="list-style-type: none"> LOCAL CONT NO: D100001024K48 LOCAL CONT NO: 0330968 ARK: ark:/67531/metaph108405 		
Resource Type:	Map		
Format:	Image		
Rights:	License: pdf Access: public Statement: Maps and information obtained through USGS. Acknowledgment of the USGS would be appreciated in products derived from these data.		
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Denton, Texas, Callahan County

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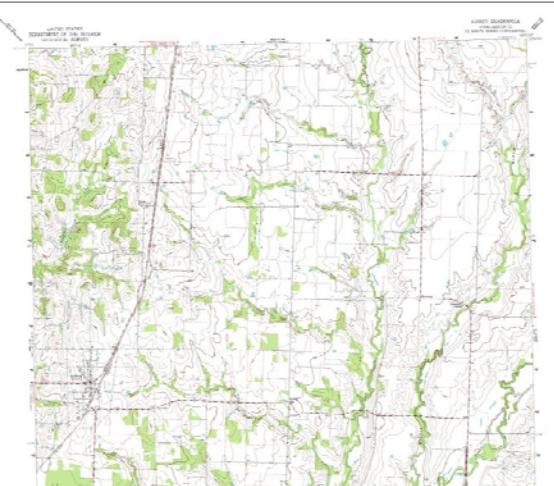
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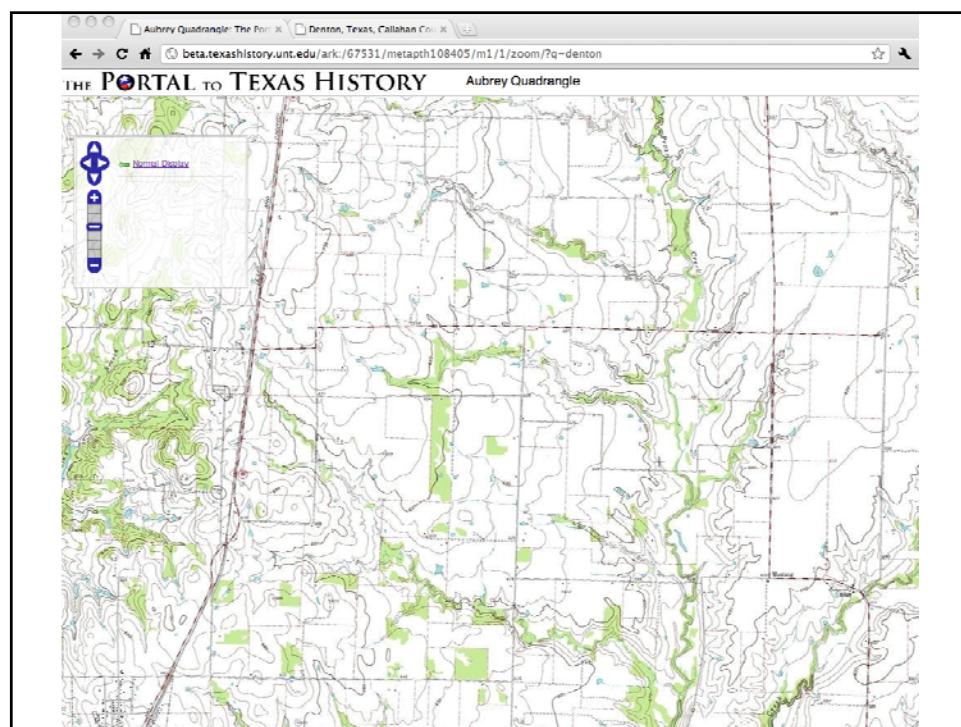
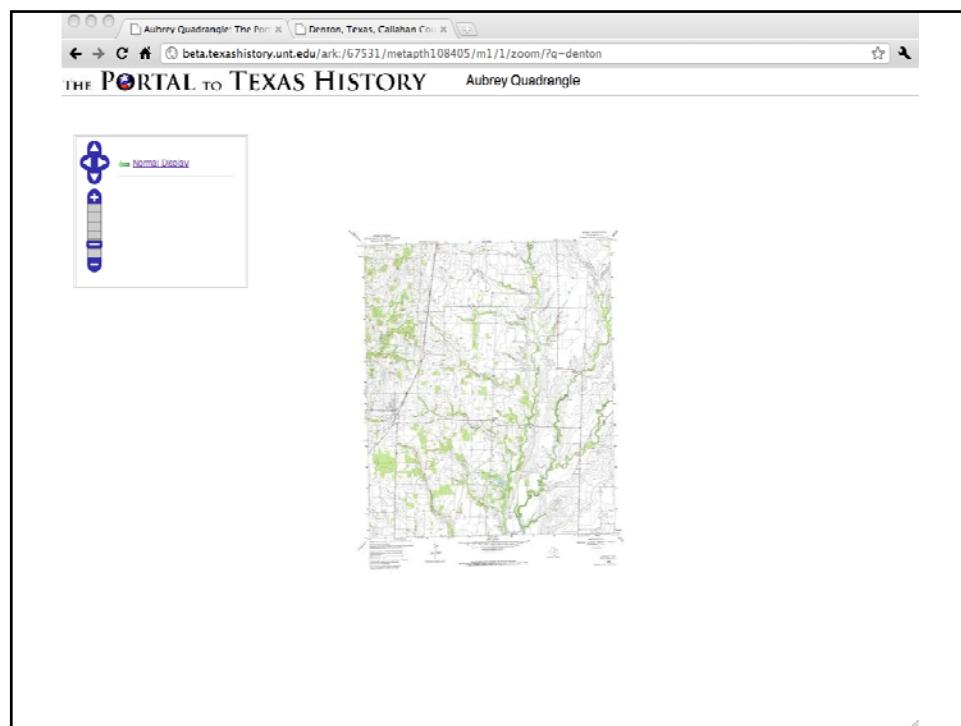
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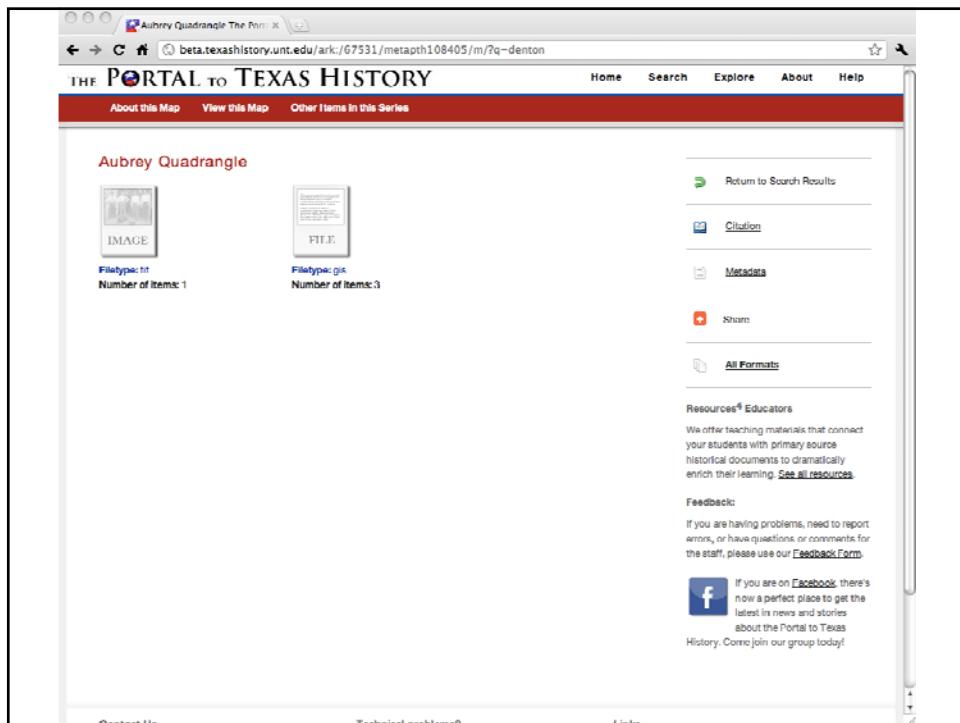
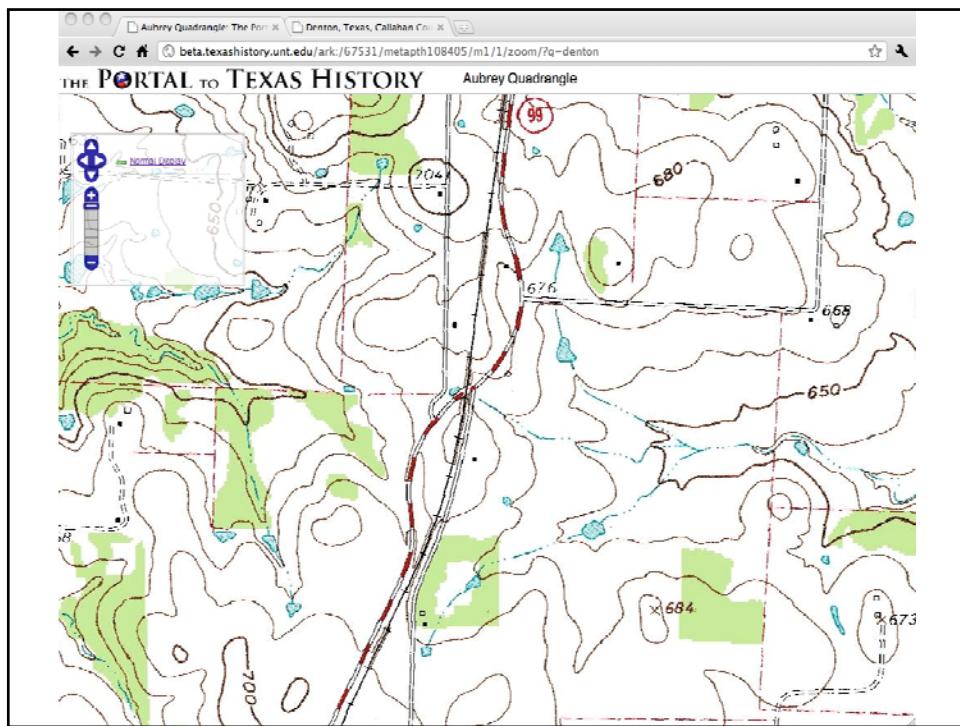
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Aubrey Quadrangle

Filename	Size	Format	Download
033096c8.fgd	14.3 KB	text/plain	Download
033096c8.tfw	64 bytes	text/plain	Download
033096c8.tif	3.9 MB	image/tiff	Download

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Explore by Locations

Help with Exploring

To find items about, or located in, a specific county, click on any blue colored county on the map. Darker shaded counties have more items available. You can also browse a [List of Texas Counties](#), other U.S. States, and other countries.

[See all Exploring FAQs](#)

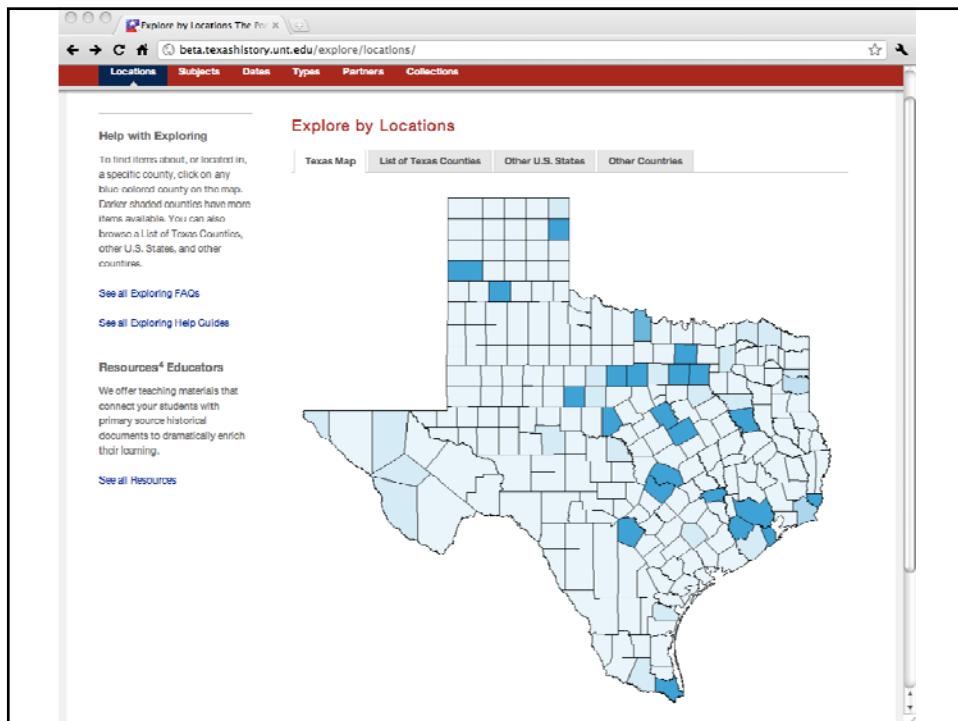
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Texas Map List of Texas Counties Other U.S. States Other Countries



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Search within The Portal to Texas History Beta

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fulltext | Submit

You limited your search to:

County: Lynn County, TX | Remove

Results 1 - 10 of 26 | Sort by: Best Match | Print | Email | RSS

Tahoka Quadrangle

Date: 1981
Creator: Geological Survey (U.S.)
Description: Topographic map of a portion of Texas from the United States Geological Survey (USGS) project. The map includes towns, historic or notable sites, bodies of water, and other geologic features. Scale 1:24,000
Contributing Partner: UNT Libraries Government Documents Department

New Lynn Quadrangle

Date: 1981
Creator: Geological Survey (U.S.)
Description: Topographic map of a portion of Texas from the United States Geological Survey (USGS) project. The map includes towns, historic or notable sites, bodies of water, and other geologic features. Scale 1:24,000
Contributing Partner: UNT Libraries Government Documents Department

Usage

- “I was looking at the surveyors map of Liberty County and then the Dayton Quadrangle and found it very interesting. Do you print these maps and if so, what is the size and cost.”
- 1,000 “uses” in first three months online.



Challenges

- Confusing metadata related to dates
- County lookup Web-services differ substantially
- What kind and how much automatically extracted metadata
- How do users want to find this content



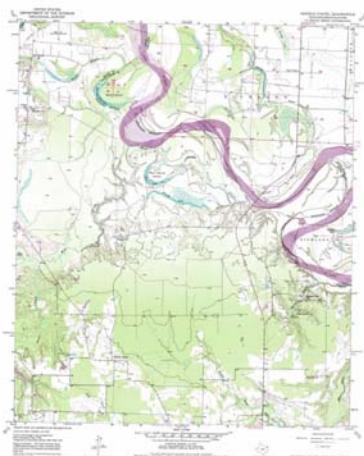
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Next Steps

- 2010 Topographic Maps
- Lesson plans
- Marketing to increase usage
- Other topographic series
 - 1:100,000
 - 1:250,000
- Other States?



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Questions

- <http://texashistory.unt.edu/>
- Mark Phillips
 - mark.phillips@unt.edu

