

The Next Generation of USGS Topographic Maps

US Topo maps
Historical Map Collection

US Topo maps

The new generation of digital topographic maps from the USGS. Arranged in the traditional 7.5-minute format, digital US Topo maps look and feel like the traditional paper topographic maps for which the USGS is so well known. At the same time, US Topo maps provide modern technical advantages that support wider and faster public distribution and enable basic, on-screen geographic analysis.

US Topo Status

- By the close of FY 2012 US Topo maps will be available for conterminous US.
- 1/3 of the conterminous US is being updated annually. One full cycle of coverage complete.
- Each year additional layers are being added. More structures and PLSS in the west for 2013
- What about Hawaii and Alaska? Starting in 2012

Product Description

- Made from *The National Map (TNM)* data, which is integrated from Federal, State and local data sources where available
- A set of nationally consistent topographic maps that can be used electronically or plotted
- A national digital topographic map – GeoPDF format
- Limited GIS characteristics,
- Contains the US National Grid
- Released with historic versions of the map



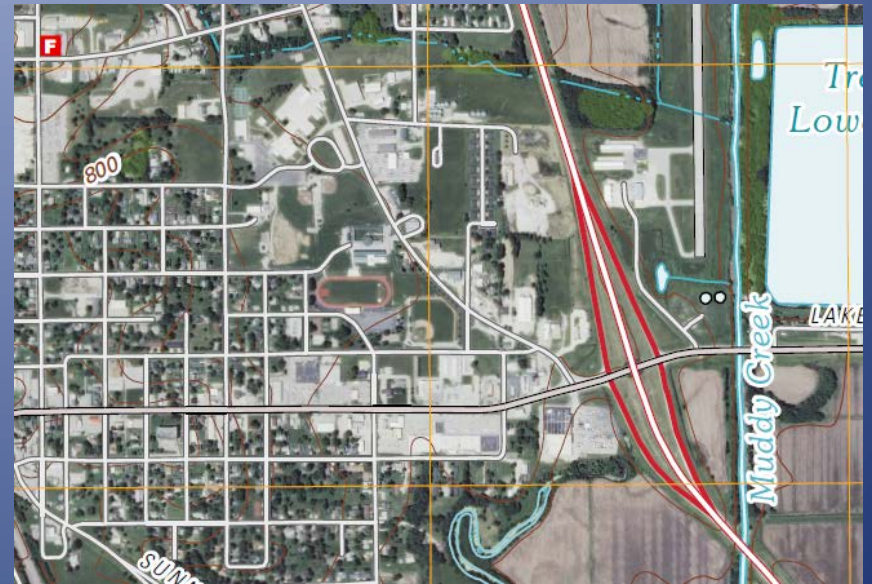
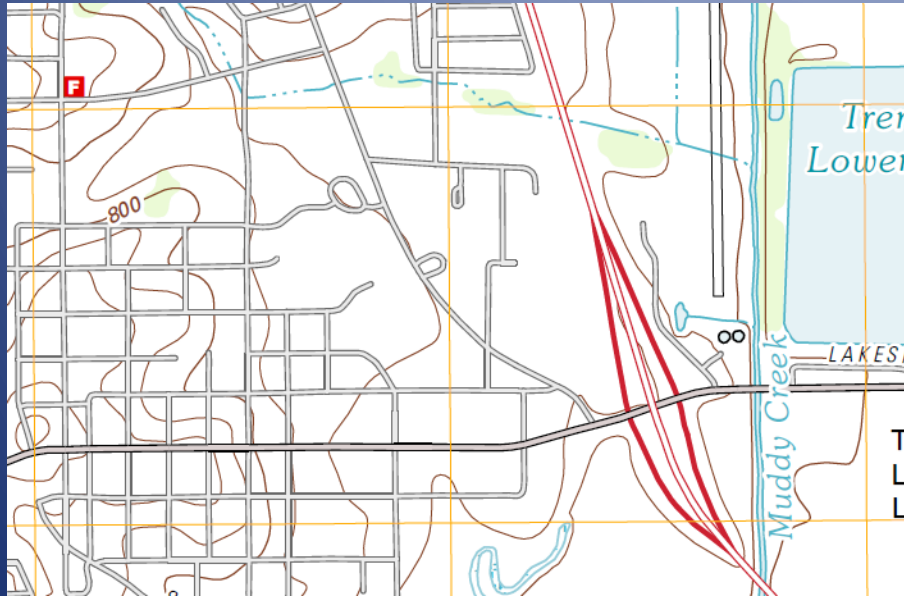
Product Characteristics

- GeoPDF format
 - ✓ TerraGo Technologies extension to the Adobe PDF file format
- Georeferenced
 - ✓ Locations defined in terms of map projection or coordinate systems
- Layered (select layers, turn layers on/off)
- Limited interactive capabilities, free tools
- File Size about 15-20 Mb

TNM Data Sources for the Maps

- Source data from *The National Map* datasets
 - Orthoimage – National Orthoimage Dataset
 - Elevation – National Elevation Dataset, LiDAR where available
 - Hydrography – National Hydrography Dataset
 - Transportation - National Transportation Dataset
 - Boundaries – National Boundaries Dataset
 - Structures – National Structures Dataset
 - Vegetation – National Landcover Dataset
 - Names (Geographic Names Information System)
 - Grids and quad level metadata
 - High-resolution scans of historic maps

2012 Trenton



Strategy

- Evolution
 - Data layers added as they become available in *The National Map*
 - Features added as technical processes are perfected
 - Full topographic quadrangle map content (ultimately)
 - Bundled with scanned historical quadrangle maps
 - Additional User requirements added over time
 - State leaf off orthos
 - State transportation data

Key Advantages

- Accessible on line from a personal computer
- Interactive & enhanced
- Evolving & improving over time
- Plot / print ready
- Authoritative content
- Quality assured to standards
- Public domain
- Free download
 - ✓ Through the USGS Store
 - ✓ Through the Hazards Data Distribution System (HDDS)

US Topo Website

<http://nationalmap.gov/ustopo>

About US Topo Maps

Download Maps
(Map Store)

Frequently Asked Questions

User's Guide-Quickstart
(1.2 MB pdf)

Fact Sheet

125 Years of Topographic
Mapping

The National Map

Emergency Response Map
Index Tool

Contact Us

A New Generation of Maps

US Topo is the new generation of digital topographic maps from the [U.S. Geological Survey](#) (USGS). Arranged in the [traditional 7.5-minute quadrangle](#) format, digital US Topo maps look and feel like the traditional paper topographic maps for which the USGS is so well known. At the same time, US Topo maps provide modern technical advantages that support wider and faster public distribution and enable basic, on-screen geographic analysis.

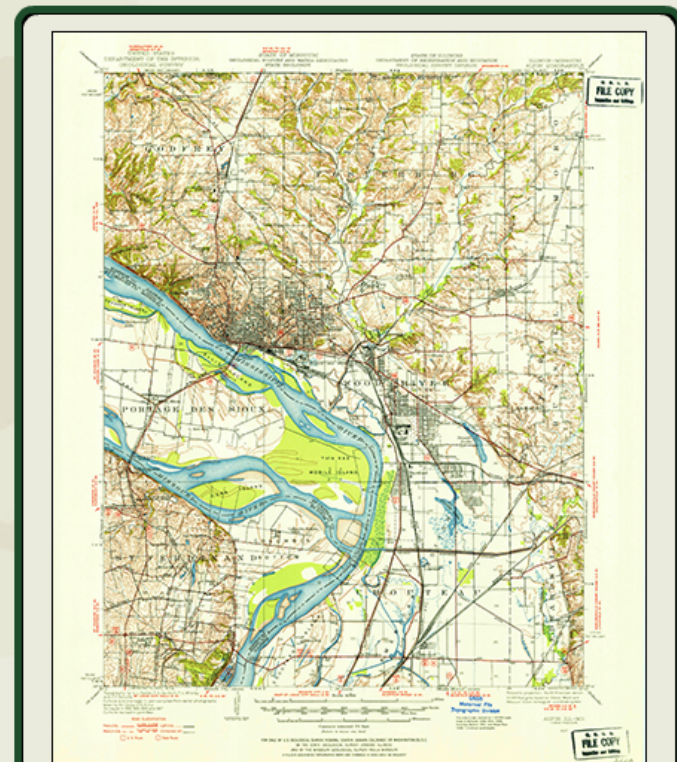
US Topo maps are available free on the Web through the [USGS Store](#). Each map quadrangle is constructed in PDF format with geospatial extensions (GeoPDF®) format from key layers of geographic data – [orthoimagery](#), [roads](#), [geographic names](#), [contours](#) and [hydrographic](#) features – found in [The National Map](#). *The National Map* is a nationwide collection of integrated data from local, State, Federal, and other sources. The most recent US Topos include boundaries and woodland.

US Topo [users](#) can turn geographic data layers on and off as needed; zoom in and out to highlight specific features or see a broader context; and print the maps, in their entirety or in customized sections, on a wide variety of printing devices. Viewing and analytical tools are available free for download from [Adobe](#) and [TerraGo Technologies](#). File size for each digital 7.5-minute quadrangle is about 15-20 megabytes.

Production of the US Topo prototype, "Digital Map-Beta," began in June 2009. Production of US Topo maps began in October 2009. The newer US Topos include all of the content of the earlier "Digital Map-Beta," plus integrated contours and hydrographic features. US Topos are modeled on the prior, printed USGS 7.5-minute topographic quadrangle map series which was completed in 1992.

As the US Topo product evolves, the USGS will incorporate additional data layers from *The National Map*. More information about US Topo maps [can be found here](#).

The USGS also provides digital versions of earlier edition topographic quadrangle maps through the [Historical Topographic Map Collection](#). These maps also are available for download through the [USGS Store](#).



1927 ALTON, IL-MO (15-MINUTE SERIES)
HISTORICAL TOPOGRAPHIC MAP



The USGS Store

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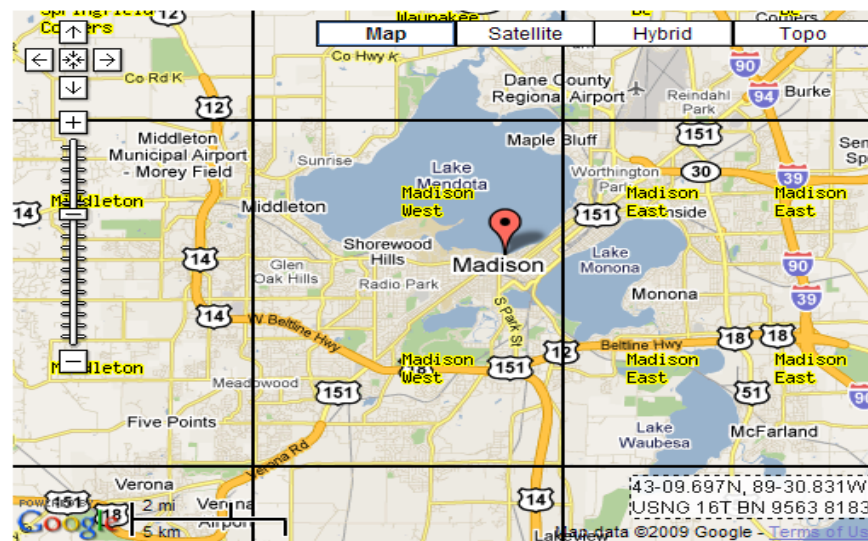
Books & Reports

Other Products

Don't see the Map Locator? [Help](#)

Map Locator

Having trouble? Call: 1-888-ASK-USGS (1-888-275-8747) or Write: usgsstore@usgs.gov for help.



Clear Markers

Reset Map

Show "DigMaps - Beta"

[About USGS Maps](#)

About GeoPDF Maps

About "Digital Maps - Beta"

"Digital Maps - Beta" Quickstart

FREE DOWNLOAD



TerraGo Desktop

The optional free TerraGo Desktop provides more ways to interact with USGS

STEP 1.



SEARCH: [\[Search Help\]](#)

Go

Search Type: Address or Place

OR
FIND A PLACE ON THE
MAP [\[Navigation Help\]](#)

FIRST, ○ NAVIGATE around the map: double click to re-center, click and drag to pull the map around, zoom in and out.

THEN,  MARK POINTS on the map: click on a place to add a marker .

NOTES:

You can switch between Navigate and Mark Points at any time.

The following [map footprints](#) appear when you are in the Mark Points mode:

7.5 and 15 Minute (must be zoomed in)

STEP 2.



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Map Locator

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STEP 1.

Recreation Passes Name Extent Date Map File SEARCH: [Search Help] Go

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Featured & New Products West Search Type: Address or Place

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[Books & Reports](#)

 Madison 30X60 1991
 [order](#)
[download](#)
 OR

[Books & Reports](#) | [Other Products](#) |  [FIND A PLACE ON THE MAP](#) [\[Navigation Help\]](#)

FIRST,  NAVIGATE around the

map: double click to re-center, click and drag to pull the map

around, zoom in and out.

THEN,  MARK POINTS on the map; click on a place to add a

map: click on a place to add a marker

NOTES:
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[About USGS Maps](#)
[About GeoPDF Maps](#)
[Clear Markers](#)
[Reset Map](#)
[Navigate and Mark Points at any time](#)

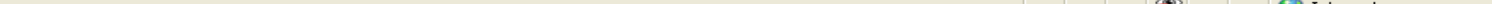
[Show "DigMaps - Beta"](#)
[About "Digital Maps - Beta"](#)
["Digital Maps - Beta" Quickstart](#)

[Digital Maps - Beta Quickstart](#) appear when you are in the Mark Points mode:

FREE DOWNLOAD 7.5 and 15 Minute (must be zoomed in)

The optional free TerraGo

TerraGo Desktop Desktop provides more ways to interact with USGS
 STEP 2.



Internet 100%

Download from Viewer

USGS TNM 2.0 Beta Viewer - Windows Internet Explorer

http://tnm2beta.cr.usgs.gov/viewer/

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Google Search Share Sidewiki Check Translate AutoFill Convert Select

Favorites Suggested Sites Free Hotmail Get More Add-ons

The National Map: Viewers USGS TNM 2.0 Beta Viewer

USGS science for a changing world The National Map Viewer BETA Powered by Palantir™ x3

Find a Place joplin.mo Search e.g., Phoenix, AZ or -115.14 36.17

Options Help Link

Base Map Imagery

Overlays

- Base Data
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 - ☒ US Topo: Current Available
 - ☒ GeoPDFs in Store
 - ☒ Reference Polygons
 - ☒ Governmental Units
 - ☒ Map Indices
 - ☒ 100K Index
 - ☒ 63K Index (AK)
 - ☒ 24K Index
 - ☒ Hydrologic Units
- Inventory Services
- Emergency Operations
- Featured Federal Services
- User Added Content

Content Reorder Layers

US Topo

[Return to Menu](#)

Quad Name: Joplin West
Counties: Cherokee KS, Jasper MO, Newton MO
Primary State: MO
Date: 1/4/2010
Size: 29.85 MB
[Click here to download GeoPDF](#)

Cursor Position 37.57571° -93.90713° Scale 1:577,791

Done Local intranet 100%

start WLIA 2010 USTOPO ... Mail - Inbox - IBM Lo... D:\VRADData\Wraga D... USGS TNM 2.0 Beta ... 10:47 PM

Hazards Data Distribution System (HDDS)

<http://hdds.usgs.gov/EO/>



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Emergency Operations



■ U.S. Disaster Response Imagery

View imagery from before and after a disaster.

■ Quick Downloads of U.S. and International Imagery

Access disaster response imagery in predefined tiled downloads (HDDS).

■ Interactive GIS Map Viewer

Use the interactive map to specify your area of interest and choose data layers.

■ GIS Resources

Find Web map services.

■ Digital Library

Locate related Web sites, resources, maps, products, presentations, meeting notes, and much more.

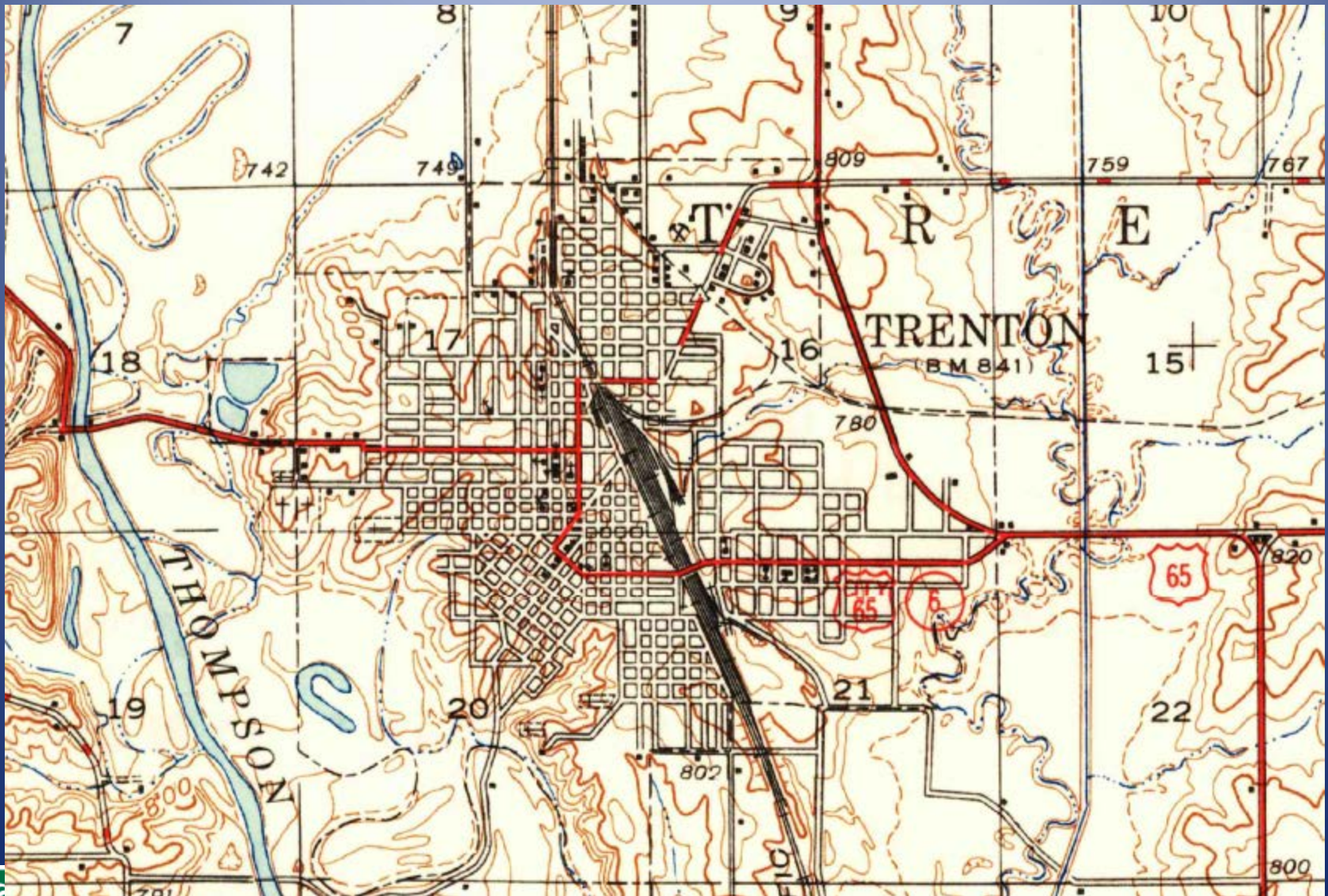
Emergency Operations

Explore critical pre- and post-disaster images and datasets online for immediate viewing and downloading. The U.S. Geological Survey (USGS) Emergency Operations, in support of the Department of Homeland Security, provides these images for use in disaster preparations, rescue and relief operations, damage assessments, and reconstruction efforts. We supply satellite and aerial images for analysis of disaster areas before, during, and after a disaster.

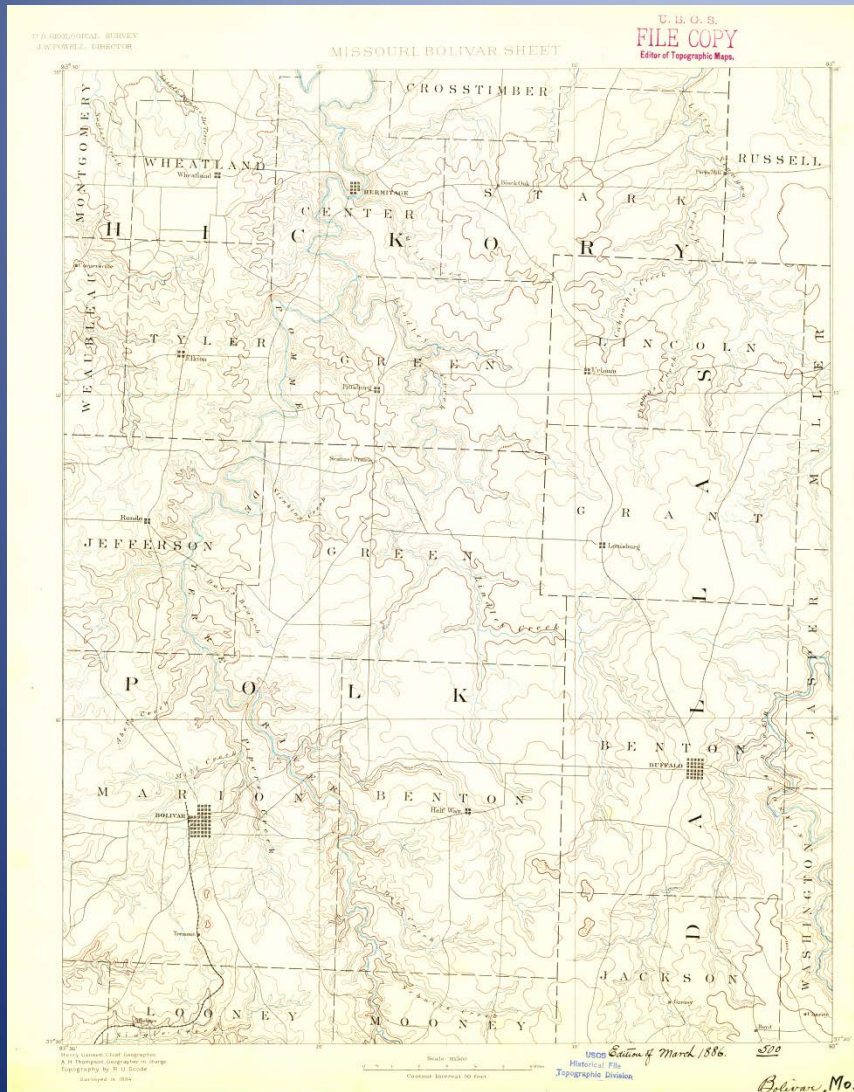
Historic Map Collection

3,575 USGS Maps scanned
and on-line for Missouri

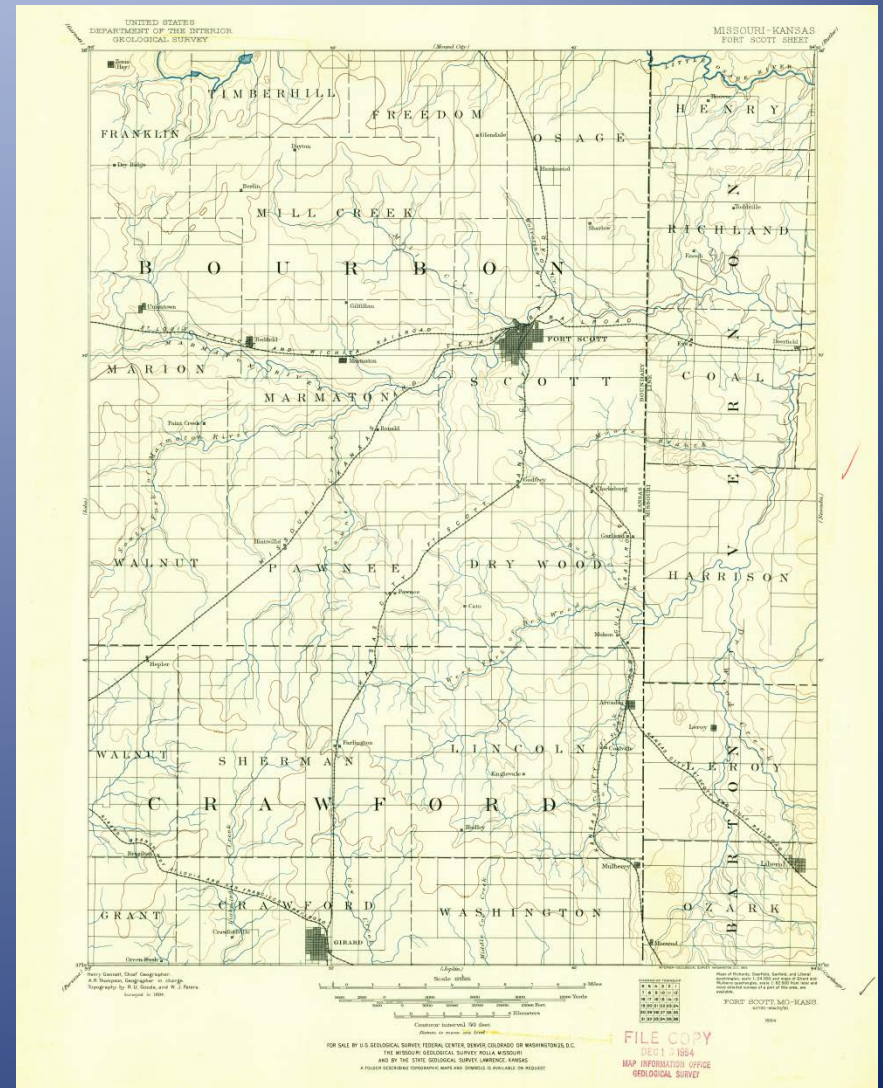
Trenton 1:62,500 scale map, 1948



Missouri's Oldest Maps



Bolivar, 1884, 1:125,000



Fort Scott, 1884, 1:125,000

Historic USGS Quadrangle Scanning

- Scan complete collection of approximately 250,000 USGS quadrangles existing as paper copies, using consistent, high quality specifications
- Provide all editions and all scales matching US Topo release cycle
- All maps will have complete Metadata
- GeoPDF files available for download from USGS Store



Questions?

Ray Fox

Geospatial Liaison to Missouri

573-308-3744

rfox@usgs.gov