



National Park Service - National Trails Visitor Use Experience Web Apps

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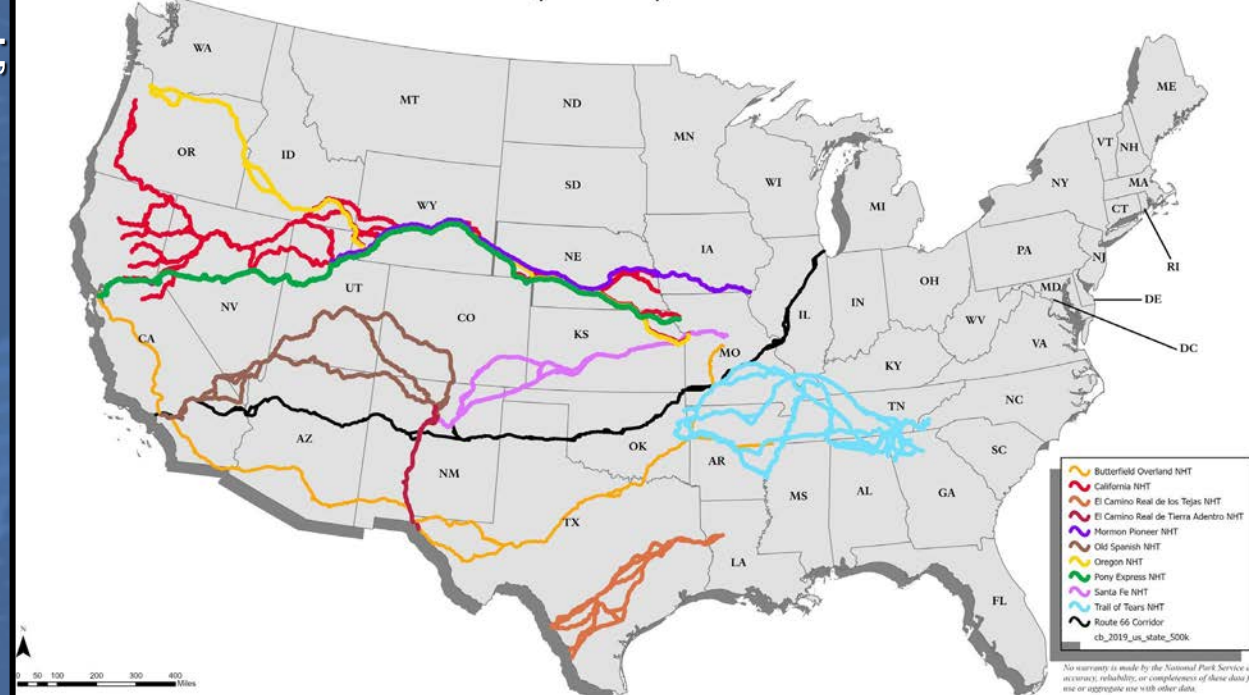




National Trails

- National Trails Office administers 10 National Historic Trails across 24 states traversing more than 29,000 miles.
- Offices in Santa Fe, NM; Salt Lake City, UT; and Albuquerque, NM.
- Administration is in collaboration and cooperation with willing partners for protecting, interpreting, and providing public access to trail resources.

National Historic Trails (NHT) and Route 66





Resource Information Management Team

Geographic Information Systems (GIS) Mapping and
Database Management

Brian Deaton – Santa Fe, NM

Chad Ennis – Salt Lake City, UT



National Historic Trails Viewer

← → ↻ nps.gov/safe/playyourvisit/maps.htm

The Santa Fe Trail National Historic Trail extends between Missouri and Santa Fe, New Mexico.

MAPS AVAILABLE ▾

GIS Interactive Map

The National Park Service Geographic Resources Program hosts an interactive trails map viewer.

Choose the Santa Fe National Historic Trail and then zoom in to find the details you need for trip planning.

- Interactive Trails Map Viewer >

Places to Go along the Trail

- Check out this fun interactive map >

It highlights different sites that can be visited along the trail. You'll find museums, interpretive centers, information and interpretation.

National Park Service - National Trails
National Historic Trails Viewer

NPS Home Integrated Resource Management Applications NPS ArcGIS OpenData Portal

Explore National Historic Trails

National Historic Trails are designated to protect the remains of significant overland or water routes to reflect the history of the nation. They represent the earliest travels across the continent on El Camino Real de Tierra Adentro National Historic Trail; epic migrations on the Mormon & Oregon Trails and the development of continental commerce on the Santa Fe Trail. They also commemorate the forced displacement and hardships of the Native Americans, on the Trail of Tears. There are currently 21 National Historic Trails in the National Trails System, and the National Trails office administers ten. The National Trails office also includes the Route 66 Corridor Preservation Program.

Layers Basemap Gallery

Layers

- ☒ Pony Express NHT
- ☒ Mormon Pioneer NHT
- ☒ Oregon NHT
- ☒ California NHT
- ☒ El Camino Real de Tierra Adentro NHT
- ☒ El Camino Real de los Tejas NHT
- ☒ Old Spanish NHT
- ☒ Santa Fe NHT
- ☒ Trail of Tears NHT
- ☒ Butterfield Overland NHT

Find address or place

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Essential Collaboration

- National Trails GIS support for over two decades since 1998
- 55+ students involved
 - data acquisition - GPS fieldwork
 - database development/management
 - metadata creation - task automation
 - cartography/map series - web applications
- Cooperative Ecosystem Studies Units (CESU)
- Collaboration through ArcGIS Online





University of Utah DIGIT Lab

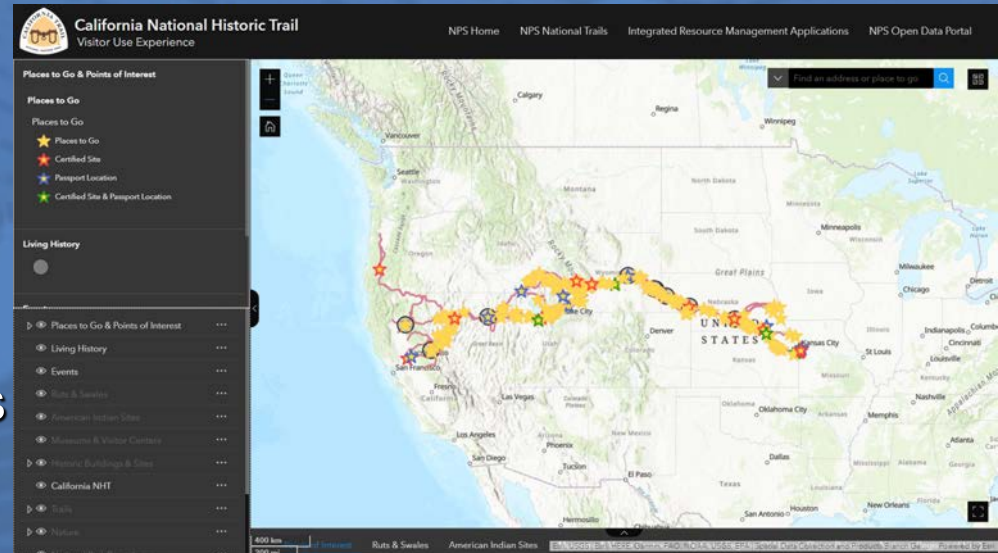
- Established 1987
- Provide support for theoretical and applied geospatial analysis and application development
- Offer students real world experience working in a professional environment
- Contract services: all levels of government, private, and non-profit





Visitor Use Experience Web Apps

- Purpose
 - Interactive web apps
 - Embeddable within NPS and partner websites
 - Enhance the connections between sites and activities along the NHTs
 - Display a more comprehensive set of activities along the NHTs
 - Assist the public creating planning activities to visit along the NHTs
 - Complement to the NPS App





NPS App

- <https://www.nps.gov/subjects/digital/nps-apps.htm>
- Interactive Maps
- Park Tours
- Amenities
- Accessibility
- Offline Use
- Share Your Visit
- Things to Do
- News, Alerts & Events

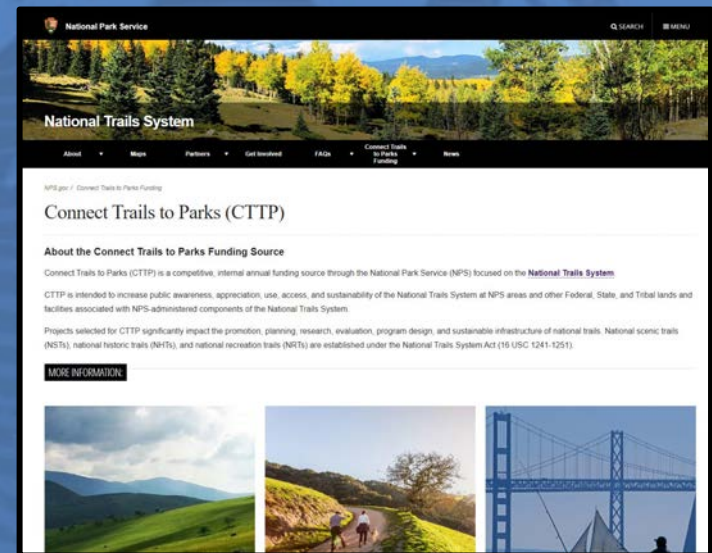




Project Funding

Connect Trails to Parks Funding

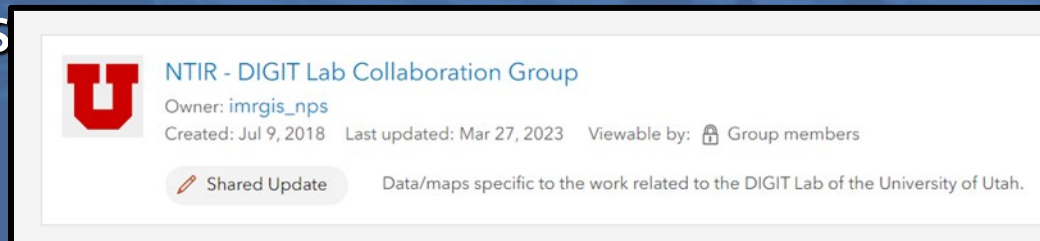
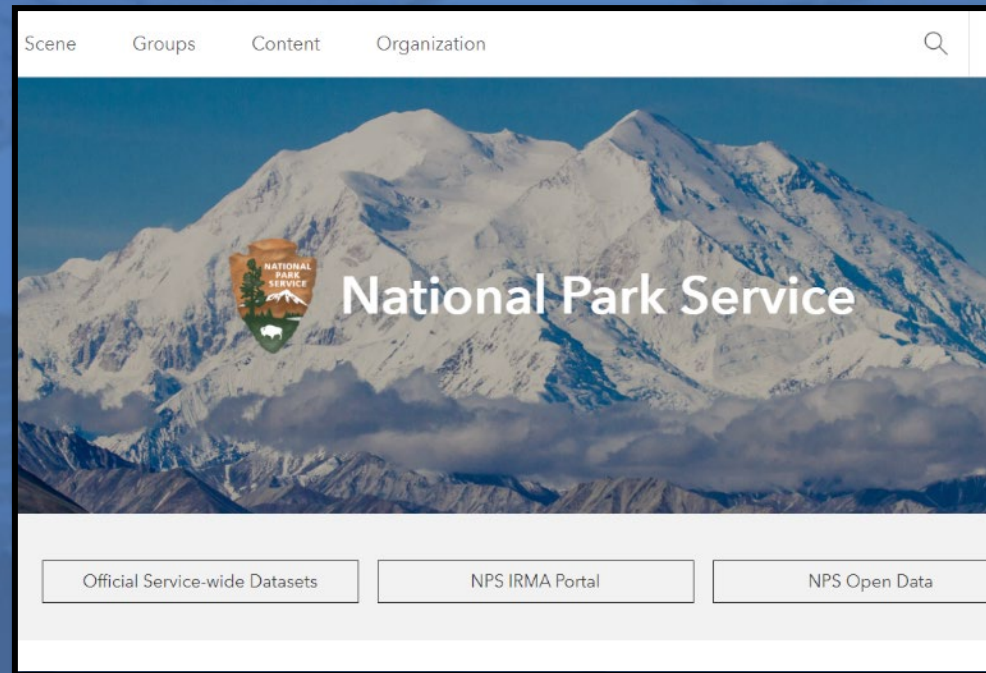
- NPS NTS Annual Competitive Project Fund
 - NPS Administered NTS/NPS Lands – Non-NPS Administered Trails/National Recreation Trails
 - Increase
 - Public Awareness
 - Appreciation
 - Use
 - Access
 - Sustainability
 - Applies to NPS, other Federal land, State land, Tribal land
 - <https://www.nps.gov/subjects/nationaltrailssystem/connect-trails-to-parks-cttp.htm>





Empowering Partners Through ArcGIS Online

- Collaborative Efforts
 - Groups/Collaboration Groups
 - Data Creation
 - Data Review
 - Web Apps
 - Survey123/Field Maps
 - StoryMaps





Process to Create Web Apps

1. Data mining
 1. Prioritize rest services
 2. Authoritative sources
 3. Search radius of 1 – 2 miles from NHT
2. Web Map Creation
3. Template Creation in Experience Builder
4. Import web maps into Experience Builder template



Visitor Use Experience Web Apps

- Creates fully configurable application templates
- Embeds multiple maps in the same application
- Supports layer grouping
- Develops apps that adapt better to mobile devices
- Use data sourced from stand alone tables




NPS Points of Interest Symbolology

os.arcgis.com/home/item.html?id=36359a4a8f3143b6bf44d5688e007900

Home Gallery Map Scene Groups Content Organization

National Park Service

 The original National Park Service web style represents the official NPS, Harpers Ferry Center (HFC) product.

Style by [esri_webstyles](#)

Item created: Jul 1, 2022 Item updated: Jul 1, 2022 Number of downloads: 1,228

☆ Add to Favorites

Description

Official style created by the National Park Service The original National Park Service style file was an attempt to create an easy way for users to style their cartographic products in ArcGIS ArcMap in a way that resembles an official NPS, Harpers Ferry Center (HFC) product. It has been updated for use in ArcGIS Pro by the GIS Cartography & Web Mapping Subcommittee, who addressed changes and additions to HFC cartography, but also longstanding issues with the style itself.

Desktop Style

Terms of Use

No special restrictions or limitations on using the item's content have been provided.

Comments (0)

Leave a comment.

Leave a comment.

Comment

Symbol style

Change symbol

Category

Basic shapes

- Human landscape 2
- Landforms
- ✓ National Park Service
- Natural landscape 1
- Natural landscape 2
- Pins
- POI
- POI Basic
- Shapes
- Symbolology

Done










Style options

NPS - Points of Interest (POIs) - Geographic Coordinate System - Points of Interest

Types (Unique symbols)

Symbol style

POI TYPE

	Campsite	3632
	Parking Lot	3418
	Restroom	2706
	Trailhead	2087
	Mile Marker	1654
	Picnic Area	1382
	Boat Dock	1032
	Viewpoint	899
	Interpretive Exhibit	852

Done Cancel

TagGraph, GeoTechnologies, Inc, METI/N... Powered by Esri

This item has no tags.

Credits (Attribution)



Accessibility: Alternative Text

CALI Visitor Use Experience Web | ELCA Visitor Use Experience Web | POEX Visitor Use Experience Web | POEX Visitor Use Experience Web

nps.maps.arcgis.com/apps/mapviewer/index.html?webmap=50e91daf0be7464283dafa4ac929226a

CALI Visitor Use Experience Web Map

Open in Map Viewer Classic

RIM NTIR ntrres_nps

Layers

- Museums & Visitor Centers
- Historic Buildings & Sites
- California NHT
- Trails
- Nature
- National Park Boundaries
- Federal Lands
- State/Local Lands
- Tribal Lands
- NTIR US Census County Tigerline 2020
- PlacesToGo_popupdata

Independence Courthouse

What's Here: Places to Go /Passport Site /Historic Site


Location: 318 W. Pacific, Independence, MO, 64050

Access: Information Not Available

Hours: Information Not Available

Telephone: Information Not Available

More information: [Click Here](#)



PlacesToGo_popupdata

Pop-ups

Pop-ups authored in Map Viewer are not compatible with all apps.

Enable pop-ups

Options

Attribute expressions

Title

{name}

Text

What's Here: {expression/...}

Edit text

+ Add content

Esri, CGIAR, USGS | Unified Gov of Wyandotte Co, Missouri Dept. of Conservation, Missouri DNR, Esri, HERE, ... Powered by Esri



Open in Map Viewer Classic

RIM NTIR
ntirres_nps

PlacesToGo_popupdata

Pop-ups

Pop-ups authored in Map Viewer are not compatible with all apps.

Enable pop-ups

Options

Attribute expressions

Title
{name}

Text
What's Here: {expression}/...

Edit text

+ Add content

Properties

Styles

Filter

Effects

Aggregation

Pop-ups

Access: {expression}

Hours: {expression}

Telephone: {expression}

More information

Aⁱ √ A^E √ A √ B I U ≡ √ ½ ∴ 🔗 📄 T_x ⋮

</p>
<p>
 More information: Click
Here
</p>
<p style="{text-align:center};">

</p>

OK Cancel

A screenshot of a mobile application interface. At the top, there's a navigation bar with a magnifying glass icon and the text 'Get directions' and 'Zoom to'. To the right, it says '1 of 3' with left and right arrow icons. Below this, the title 'Independence Courthouse' is displayed. Underneath the title, the location is listed as 'Location: 318 W. Pacific, Independence, MO, 64050'. Below the location, it says 'Access: Information Not Available'. Further down, it says 'Hours: Information Not Available'. Below that, it says 'Phone: Information Not Available'. At the bottom, there's a section labeled 'More information:' followed by a link that says 'Click Here'. Below the text, there is a large photograph of the Independence Courthouse, a classical building with a prominent dome and columns, surrounded by trees and a street.



Alt Text Generation: Solution!



Places to Go 146 records, 0 selected				
		directions	url	image_url
<input type="checkbox"/>			View	9C19A70C-F64B-47D8-BE39-33A6D026C8C1
<input type="checkbox"/>			View	4B291890-5E04-45B1-B1FD-7633284BB9F9
<input type="checkbox"/>			View	D8ED85EE-CB9C-49A1-987E-950B268E7AD0

<https://npgallery.nps.gov/GetAsset/9C19A70C-F64B-47D8-BE39-33A6D026C8C1/thumbxlarge.png>



Future Updates

1. Apps will be updated at regular intervals depending on data updates, etc.
2. NHT Recreation/Retracement Trail added to the apps.
3. Continue to streamline data feeding into the applications for reduced application maintenance.
4. More photos will display as more are added to the individual NHT NPGallery Digital Archives.
5. Continue adding National Trails Points of Interest (Places to Go, Passport Stamp Locations, Certified Sites).
6. Add more locations for Events and Living History.
7. Create Visitor Use Experience Web App for Butterfield Overland National Historic Trail.



Questions/Comments

National Park Service - National Trails

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<https://www.nps.gov/orgs/1453/index.htm>



References to non-U.S. Department of the Interior (DOI) products do not constitute an endorsement by the DOI.