



New Mexico's RGIS Program: State Geospatial Data Clearinghouse

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New Mexico RGIS: The State Digital Geospatial Data Clearinghouse

- The Resource Geographic Information System (RGIS) is New Mexico's statutorily designated (2013) State Digital Geospatial Data Clearinghouse. RGIS is the state's primary source for geospatial data and information, technologies, and services.
- Earth Data Analysis Center (EDAC) develops and enhances NM RGIS. The UNM Bureau of Business and Economic Research (BBER) provides Census and socioeconomic data. Numerous state and local agencies share their data and data services.



NM RGIS Data Portal rgis-data.unm.edu November 2017

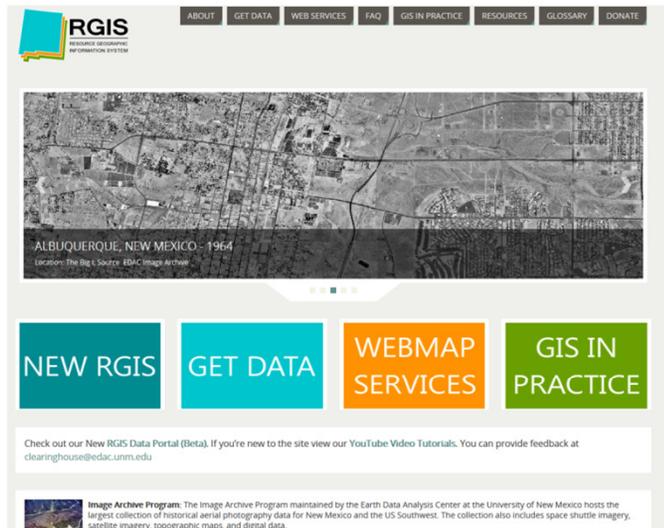


RGIS History

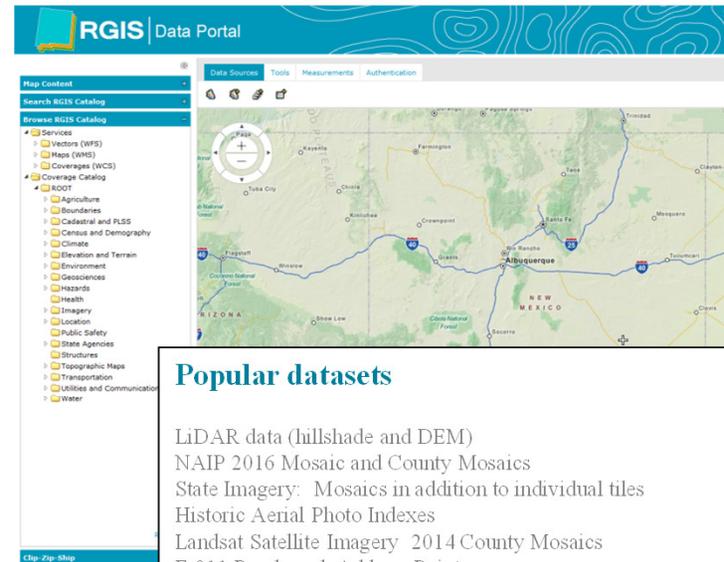
- 1988 – New Mexico State agencies surveyed by four UNM units to assess the feasibility for developing a statewide computer mapping and geographic information system. (RGIS)
- 1989 – House Bill 218 requested funds for establishing a GIS clearinghouse
- 1990 – RGIS became a member of the New Mexico Geographic Information Systems Advisory Committee (GISAC)
- 1992 – RGIS clearinghouse opened and provided digital data via 4mm and 8 mm tapes
- 1993 – Catalog of digital geographic data in New Mexico published. (cost \$40.00)
- 1994 – EDAC received FGDC Cooperative Agreement Program award to develop FGDC compliant metadata
- 1996 – RGIS website inaugurated. Provided information on the program and metadata. Data not available yet via the website. CD-ROM set of clearinghouse data released. Cost per CD was \$150.00.
- 1997 – RGIS Clearinghouse upgraded to a National Spatial Data Infrastructure (NSDI) compliant node. Metadata could be searched by keywords and/or geographic coordinates
- 1998 – Version 2 of the Resource Data CD released. First metadata training workshops supported by FGDC and RGIS were held.
- 2001 – RGIS website redesigned to provide online access to digital data. Data available at no cost!
- 2002 – Road centerline data collected by New Mexico Counties were made available
- 2008 – RGIS website redesigned
- 2013 - The RGIS website was redesigned to accommodate more sophisticated capabilities such as data discovery, access, and web mapping services.
- 2013 - RGIS designated State Digital Geospatial Data Clearinghouse by the NM Legislature and Governor (2013, HB493)
- 2015 – RGIS – ERDAS APOLLO released



NM RGIS Data Portal



NM RGIS Data Portal
<http://rgis.unm.edu>



Popular datasets

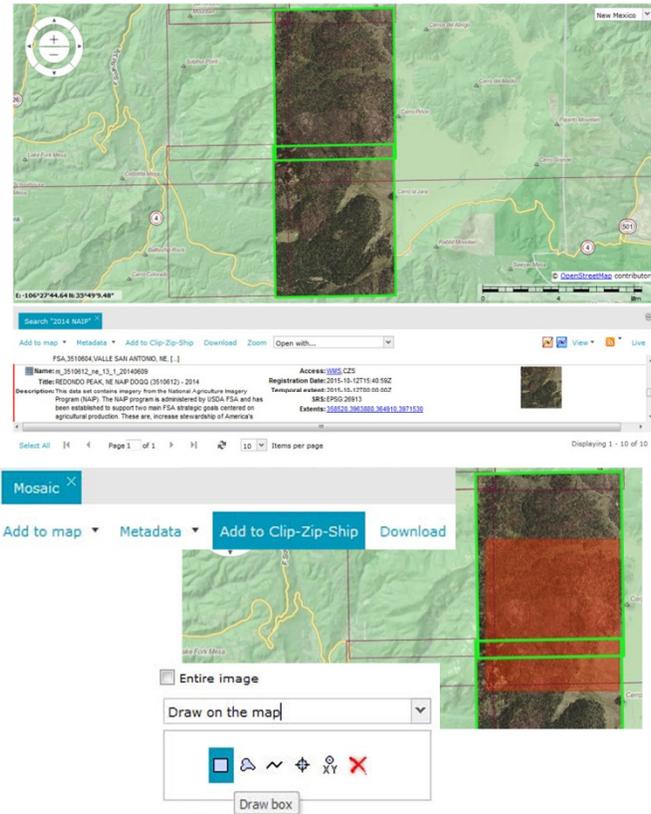
- LiDAR data (hillshade and DEM)
- NAIP 2016 Mosaic and County Mosaics
- State Imagery: Mosaics in addition to individual tiles
- Historic Aerial Photo Indexes
- Landsat Satellite Imagery 2014 County Mosaics
- E-911 Roads and Address Points
- Updated Boundaries
- Wildfire Boundaries, Burn Severity
- CASA (Community Anchor Site Assessment: Public Safety, Schools, Hospitals...)
- USGS Earthquakes
- FEMA National Flood Hazard Layer
- FEMA Preliminary Maps
- Updated USGS NHD



NM RGIS Data Portal

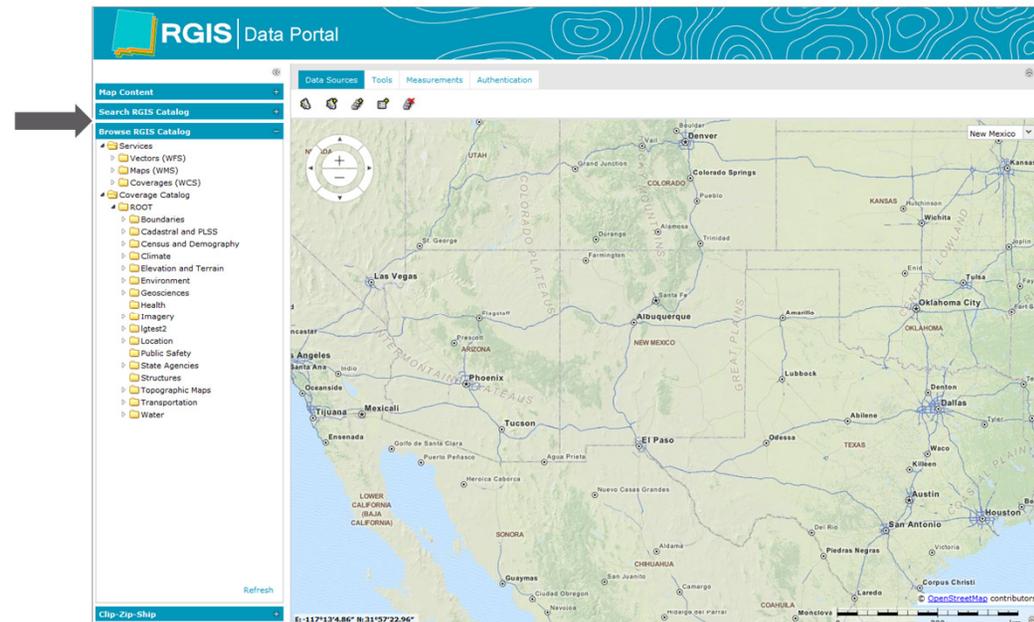
New Functions and Tools

- Search RGIS Catalog: By Keywords, Type, Data Type, Spatial Filter, Availability, Date
- Browse RGIS Catalog: By Web Service, Vector Category, Raster Category
- Interactive Mapping: Show Extent, Add to Map, Zoom Options, Extent, Add Multiple Layers
- Mapping Tools: Identify Features, Measure Distance/Area, Display Feature Classes and Queries, Set Map Scale, Print, Show Coordinates
- Download Tools: OGC Web Services, Download (large files) via e-mailed link, Clip-Zip-Ship (for small subsets of raster/image data)
- Metadata: Overview, Full Content, Download



NM RGIS: Finding Data

- Search RGIS Catalog
- Browse RGIS Catalog



Search RGIS Catalog

- Search by:
- Keywords [free text]
- Type: Data Set [default], Aggregates, Service Layers
- Data Type: Any Data Set [default], Imagery, Vector, Point Cloud, Documents
- Spatial Filter: Visible Map Area, Draw on Map, Select Feature from Map
- Availability: Add to Map (WMS), Downloadable (CZS)
- Date: Registration [default], Temporal Extent (Begin and End Dates)

The screenshot shows the 'Search RGIS Catalog' interface with the following fields and options:

- Keywords:** A text input field.
- Type:** A dropdown menu with 'Dataset' selected.
- Data Type:** A dropdown menu with 'Any dataset' selected.
- Spatial filter:** A checkbox that is currently unchecked.
- Availability:** A section containing two checkboxes: 'Add to Map (WMS)' and 'Downloadable (CZS)', both of which are unchecked.
- Date:** A dropdown menu with 'Registration' selected.
- Start:** A date input field with a calendar icon.
- End:** A date input field with a calendar icon.



Search Catalog: Keywords

The image illustrates the search process in the RGIS Catalog. On the left, the search interface includes fields for Keywords, Type (Dataset), Data Type (Any dataset), Spatial filter, Availability (Add to Map (WMS), Downloadable (CZS)), Date (Registration), Start, and End. An arrow points from the Keywords field to a magnified view of the search input, where '2014 NAIP' is entered and the Search button is highlighted. Below this, a map of New Mexico is shown with a black arrow pointing to a specific location. At the bottom, the 'Data Results' panel displays the search results for '2014 NAIP', including the Name (2014 NAIP Mosaic UTM Zone 13), Title (New Mexico 2014 NAIP Mosaic - UTM Zone 13), Description (This dataset is a mosaic of imagery from the National Agriculture Imagery Program (NAIP) for the State of New Mexico...), Registration Date (2015-10-23T14:57:52Z), Temporal extent (2014-06-04T00:00:00Z-2014-10-04T00:00:00Z), SRS (EPSG:26913), Extents (215200, 3008466, 687030, 4196330), and Keywords (farming, Digital Ortho Rectified Image, Mosaic, Quarter Quadrangle, Ortho).



Data Results

Search "2014 NAIP"

Add to map | Metadata | Add to Clip-Zip-Ship | Download | Zoom | Open with...

Name: 2014 NAIP Mosaic UTM Zone 13
 Title: New Mexico 2014 NAIP Mosaic - UTM Zone 13
 Description: This dataset is a mosaic of imagery from the National Agriculture Imagery Program (NAIP) for the State of New Mexico. The NAIP imagery is formatted to the UTM coordinate system using the North American Datum of 1983 (NAD83). The NAIP imagery may contain as much as [...]
 Keywords: farming, Digital Ortho Rectified Image, Mosaic, Quarter Quadrangle, Ortho

Access: [WMS](#), [ECWP](#), [CZS](#)
 Registration Date: 2015-10-23T14:07:52Z
 Temporal extent: 2014-06-04T00:00:00Z, 2014-10-04T00:00:00Z
 SRS: EPSG:26913
 Extents: [215300,3506469,687030,4106330](#)

Search "2014 NAIP"

Add to map | Metadata | Add to Clip-Zip-Ship | Download | Zoom | Open with...

Name: 2014 NAIP Mosaic UTM Zone 13
 Title: New Mexico 2014 NAIP Mosaic - UTM Zone 13
 Description: This dataset is a mosaic of imagery from the National Agriculture Imagery Program (NAIP) for the State of New Mexico. The NAIP imagery is formatted to the UTM coordinate system using the North American Datum of 1983 (NAD83). The NAIP imagery may contain as much as [...]
 Keywords: farming, Digital Ortho Rectified Image, Mosaic, Quarter Quadrangle, Ortho Rectification Compression (CZS), NAIP Compliance, Aerial Compliance, NM, New Mexico, Bernalillo County, Chaves County, [...]
 Access: [WMS](#), [ECWP](#), [CZS](#)
 Registration Date: 2015-10-23T14:07:52Z
 Temporal extent: 2014-06-04T00:00:00Z, 2014-10-04T00:00:00Z
 SRS: EPSG:26913
 Extents: [215300,3506469,687030,4106330](#)

Name: 2014 NAIP Mosaic UTM Zone 12
 Title: New Mexico 2014 NAIP Mosaic - UTM Zone 12
 Description: This dataset is a mosaic of imagery from the National Agriculture Imagery Program (NAIP) for the State of New Mexico. The NAIP imagery is formatted to the UTM coordinate system using the North American Datum of 1983 (NAD83). The NAIP imagery may contain as much as [...]
 Keywords: farming, Digital Ortho Rectified Image, Mosaic, Quarter Quadrangle, Ortho Rectification, Compression (CZS), NAIP Compliance, Aerial Compliance, NM, New Mexico, Grant County, Lincoln County, [...]
 Access: [WMS](#), [ECWP](#), [CZS](#)
 Registration Date: 2015-10-23T14:07:46Z
 Temporal extent: 2014-06-04T00:00:00Z, 2014-10-04T00:00:00Z
 SRS: EPSG:26912
 Extents: [47200,341389,784760,4106330](#)

Name: Rio Arriba County Mosaic 2014
 Title: Rio Arriba County Mosaic 2014
 Description: This dataset is a mosaic of imagery from the National Agriculture Imagery Program (NAIP) for the State of New Mexico. The NAIP imagery is formatted to the UTM coordinate system using the North American Datum of 1983 (NAD83). The NAIP imagery may contain as much as [...]
 Keywords: farming, Digital Ortho Rectified Image, Mosaic, Quarter Quadrangle, Ortho Rectification, Compression (CZS), NAIP Compliance, Aerial Compliance, NM, New Mexico, Grant County, Lincoln County, [...]
 Access: [WMS](#), [ECWP](#), [CZS](#)

Search "2014 NAIP" Results Name/Category

Add to map | Metadata | Add to Clip-Zip-Ship | Download | Zoom | Open with...

Name: Los Alamos County Mosaic, 2014
 Title: Los Alamos County Mosaic, 2014
 Description: This data set contains imagery from the National Agriculture Imagery Program (NAIP). The NAIP acquires digital ortho imagery during the agricultural growing seasons in the continental U.S.. A primary goal of the NAIP program is to enable availability of ortho imagery within one year of acquisition [...]
 Keywords: farming, Digital Ortho Rectified Image, Mosaic, Quarter Quadrangle, Ortho

Access: [WMS](#), [CZS](#)
 Registration Date: 2015-10-13T18:41:44Z
 Temporal extent: 2015-10-13T00:00:00Z
 SRS: EPSG:26913
 Extents: [369711,3956490,398761,3985220](#)

Select All | Page 1 of 923 | 10 Items per page | Displaying 1 - 10 of 9230



Data Results

Search "2014 NAIP" Results Name/Category

Add to map Metadata Add to Clip-Zip-Ship Download Zoom Open with...

Name: Los Alamos County Mosaic, 2014
Title: Los Alamos County Mosaic, 2014
Description: This data set contains imagery from the National Agriculture Imagery Program (NAIP). The NAIP acquires digital ortho imagery during the agricultural growing seasons in the continental U.S. A primary goal of the NAIP program is to enable availability of ortho imagery within one year of acquisition [...]
Keywords: farming, Digital Ortho Rectified Image, Mosaic, Quarter Quadrangle, Ortho Rectification Compression, MrSID, IPFG 2000 NAIP Compliance Aerial

Access: [WMS](#), CZS
Registration Date: 2015-10-13T18:41:44Z
SRS: EPSG:26113
Extent: [369711.3956490, 398761.3985220](#)

Thumbnail

Select All Page 1 of 923 10 Items per Page Items per Page Displaying 1 - 10 of 9230



Select Dataset

Bounding Box for Selected Data Set

Set

Click Anywhere in Panel to Select Data Set (red identifies selection)

Search "2014 NAIP"

Add to my... Metadata Add to Clip-Zip-Ship Download Zoom Open with... selection

Name: Los Alamos County Mosaic, 2014
Title: Los Alamos County Mosaic, 2014
Description: This data set contains imagery from the National Agriculture Imagery Program (NAIP). The NAIP acquires digital ortho imagery during the agricultural growing seasons in the continental U.S.. A primary goal of the NAIP program is to enable availability of ortho imagery within one year of acquisition [...]
Keywords: farming, Digital Ortho Rectified Image, Mosaic, Quarter Quadrangle, Ortho

Access: [WMS, CZS](#)
Registration Date: 2015-10-13T18:41:44Z
Temporal extent: 2015-10-13T00:00:00Z
SRS: EPSG:26913
Extents: [369711,3956490,398761,3985220](#)



Data Results: Visualization

Name: Los Alamos County Mosaic, 2014
Title: Los Alamos County Mosaic, 2014
Description: This data set contains imagery from the National Agriculture Imagery Program (NAIP). The NAIP acquires digital ortho imagery during the agricultural growing seasons in the continental U.S.. A primary goal of the NAIP program is to enable availability of ortho imagery within one year of acquisition [...]

Access: [WMS](#) CZS
Registration Date: 2015-10-13T18:41:44Z
Temporal extent: 2015-10-13T00:00:00Z
SRS: EPSG:26913
Extents: [369711.3956490,398761.3985220](#)

Map Extent

Map Extent

Search: "2014 NAIP"

Add to map Metadata Add to Clip-Zip-Ship Download Zoom Open with... View Live

Name: Los Alamos County Mosaic, 2014
Title: Los Alamos County Mosaic, 2014
Description: This data set contains imagery from the National Agriculture Imagery Program (NAIP). The NAIP acquires digital ortho imagery during the agricultural growing seasons in the continental U.S.. A primary goal of the NAIP program is to enable availability of ortho imagery within one year of acquisition [...]

Access: [WMS](#) CZS
Registration Date: 2015-10-13T18:41:44Z
Temporal extent: 2015-10-13T00:00:00Z
SRS: EPSG:26913
Extents: [369711.3956490,398761.3985220](#)



Data Results: Visualization

Search "2014 NAIP" X

Add to map Metadata Add to Clip-Zip-Ship Download Zoom Open with...

Add to Map

Name: Los Alamos County Mosaic, 2014
Title: Los Alamos County Mosaic, 2014
Description: This data set contains imagery from the National Agriculture Imagery Program (NAIP). The NAIP acquires digital ortho imagery during the agricultural growing seasons in the continental U.S.. A primary goal of the NAIP program is to enable availability of ortho imagery within one year of acquisition [...]
Access: [WMS](#), CZS
Registration Date: 2015-10-13T18:41:44Z
Temporal extent: 2015-10-13T00:00:00Z
SRS: EPSG:26913
Extents: [369711,3956490,398761,3985220](#)

Es: -106°22'40.52" W; 35°44'34.28" N

© OpenStreetMap contributors

Search "2014 NAIP" X

Add to map Metadata Add to Clip-Zip-Ship Download Zoom Open with...

Name: Los Alamos County Mosaic, 2014
Title: Los Alamos County Mosaic, 2014
Description: This data set contains imagery from the National Agriculture Imagery Program (NAIP). The NAIP acquires digital ortho imagery during the agricultural growing seasons in the continental U.S.. A primary goal of the NAIP program is to enable availability of ortho imagery within one year of acquisition [...]
Access: [WMS](#), CZS
Registration Date: 2015-10-13T18:41:44Z
Temporal extent: 2015-10-13T00:00:00Z
SRS: EPSG:26913
Extents: [369711,3956490,398761,3985220](#)



Data Results: Metadata, Download, Web Services

Search "2014 NAIP" x **View/Download Metadata**

Add to map **Metadata** Add to Clip-Zip-Ship Download Zoom Open with...

Name: Los Alamos County Mosaic, 2014
Title: Los Alamos County Mosaic, 2014
Description: This data set contains imagery from the National Agriculture Imagery Program (NAIP). The NAIP acquires digital ortho imagery during the agricultural growing seasons in the continental U.S. A primary goal of the NAIP program is to enable availability of ortho imagery within one year of acquisition [...]
Keywords: farming, Digital Ortho Rectified Image, Mosaic, Quarter Quadrangle, Ortho

Access: [WMS, CZS](#)
Registration Date: 2015-10-13T18:41:44Z
Temporal extent: 2015-10-13T00:00:00Z
SRS: EPSG:26913
Extents: [369711,3956490,398761,3985220](#)



Data Results: Download

Search "2014 NAIP" ✕

Download Data Set (e-mailed link for large files)

Add to map ▾ Metadata ▾ Add to Clip-Zip-Share Download Room Open with... ▾

Name: Los Alamos County Mosaic, 2014
Title: Los Alamos County Mosaic, 2014

Description: This data set contains imagery from the National Agriculture Imagery Program (NAIP). The NAIP acquires digital ortho imagery during the agricultural growing seasons in the continental U.S.. A primary goal of the NAIP program is to enable availability of ortho imagery within one year of acquisition [...]

Keywords: farming, Digital Ortho Rectified Image, Mosaic, Quarter Quadrangle, Ortho

Access: [WMS](#), CZS
Registration Date: 2015-10-13T18:41:44Z
Temporal extent: 2015-10-13T00:00:00Z
SRS: EPSG:26913
Extents: [369711,3956490,398761,3985220](#)

 View ▾  Live



Data Results: Web Services

Search "2014 NAIP" ×

Access Web Data Services

Add to map ▾ Metadata ▾ Add to Clip-Zip-Ship Download Zoom Open with... ▾ 

Name: Los Alamos County Mosaic, 2014
Title: Los Alamos County Mosaic, 2014
Description: This data set contains imagery from the National Agriculture Imagery Program (NAIP). The NAIP acquires digital ortho imagery during the agricultural growing seasons in the continental U.S.. A primary goal of the NAIP program is to enable availability of ortho imagery within one year of acquisition [...]
Keywords: farming, Digital Ortho Rectified Image, Mosaic, Quarter Quadrangle, Ortho

Access: [WMS, CZS](#)
Registration Date: 2015-10-13 18:41:44Z
Temporal extent: 2015-10-13T00:00:00Z
SRS: EPSG:26913
Extents: [369711,3956490,398761,3985220](#)





Data Results: Clip/Zip/Ship

Search "2014 NAIP" × **Select Subset for Download** (Raster only; e-mailed link)

Add to map ▾ Metadata ▾ **Add to Clip-Zip-Ship** Download Zoom Open with... ▾   View ▾  Live

Name: Los Alamos County Mosaic, 2014
Title: Los Alamos County Mosaic, 2014
Description: This data set contains imagery from the National Agriculture Imagery Program (NAIP). The NAIP acquires digital ortho imagery during the agricultural growing seasons in the continental U.S.. A primary goal of the NAIP program is to enable availability of ortho imagery within one year of acquisition [...]
Keywords: farming, Digital Ortho Rectified Image, Mosaic, Quarter Quadrangle, Ortho

Access: [WMS](#), CZS
Registration Date: 2015-10-13T18:41:44Z
Temporal extent: 2015-10-13T00:00:00Z
SRS: EPSG:26913
Extents: [369711,3956490,398761,3985220](#)



Data Results: Open With

The screenshot displays the metadata page for a dataset in the RGIS Data Portal. The dataset is titled "Los Alamos County Mosaic, 2014". The metadata includes a description of the National Agriculture Imagery Program (NAIP), registration date, temporal extent, SRS, and extents. A search bar at the top left shows "2014 NAIP". A navigation bar contains links for "Add to map", "Metadata", "Add to Clip-Zip-Ship", "Download", and "Zoom". A dropdown menu labeled "Open with..." is open, showing "Open in Google Earth" as the selected option. A small thumbnail map is visible on the right side of the metadata panel.

Search "2014 NAIP" X

Add to map Metadata Add to Clip-Zip-Ship Download Zoom Open with...

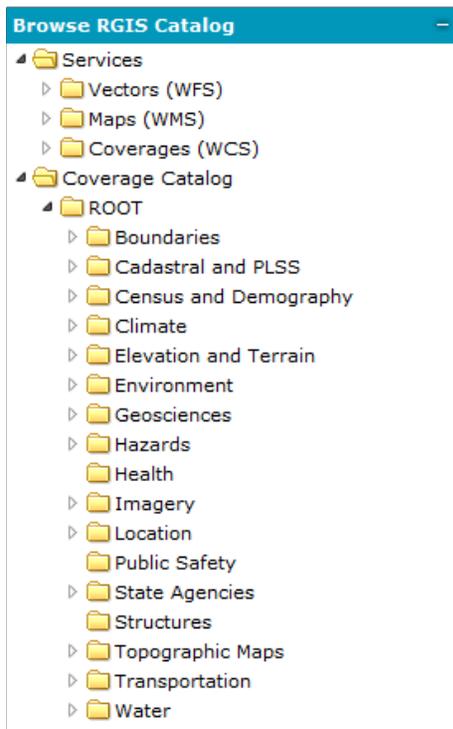
Name: Los Alamos County Mosaic, 2014
Title: Los Alamos County Mosaic, 2014
Description: This data set contains imagery from the National Agriculture Imagery Program (NAIP). The NAIP acquires digital ortho imagery during the agricultural growing seasons in the continental U.S.. A primary goal of the NAIP program is to enable availability of ortho imagery within one year of acquisition [...]
Keywords: farming, Digital Ortho Rectified Image, Mosaic, Quarter Quadrangle, Ortho

Access: [WMS](#), [CZS](#)
Registration Date: 2015-10-13T18:41:44Z
Temporal extent: 2015-10-13T00:00:00Z
SRS: EPSG:26913
Extents: [369711,3956490,398761,3985220](#)

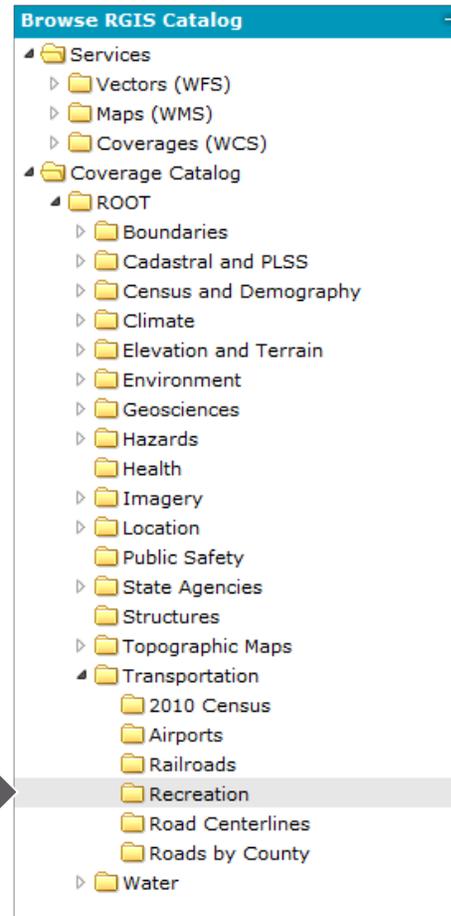
View Live



Browse RGIS Catalog



Expand Directories to find data set of interest



Browse Catalog:

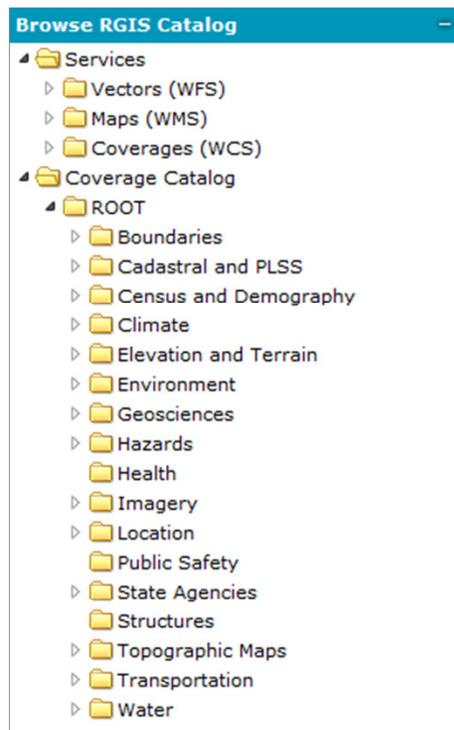
Click on Directory for data results

The screenshot displays the RGIS Catalog interface. On the left is a navigation tree with categories like Services, Vectors (WFS), Maps (WMS), Coverages (WCS), and Coverage Catalog. The Coverage Catalog is expanded to show a list of data layers including Boundaries, Cadastral and PLSS, Census and Demography, Climate, Elevation and Terrain, Environment, Geosciences, Hazards, Health, Imagery, Location, Public Safety, State Agencies, Structures, Topographic Maps, Transportation, 2010 Census, Airports, Railroads, Recreation, Road Centerlines, Roads by County, and Water. A black arrow points to the 'Recreation' layer. The main map area shows a topographic map of New Mexico with a red rectangular selection box over the central region. Below the map is a metadata table for the selected 'Recreation' layer.

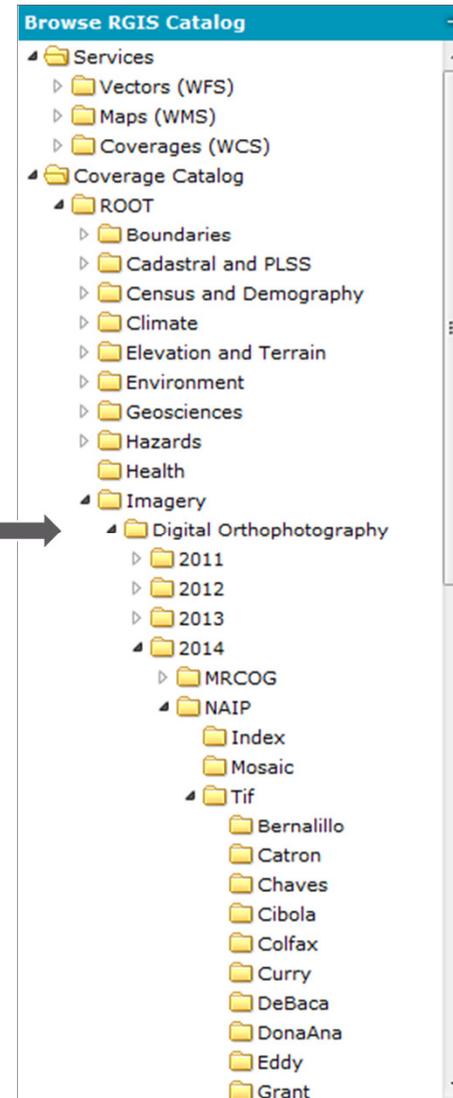
Recreation	
Name: Recreation	Registration Date: 2015-10-21T17:20:41Z
Title: Recreation	Temporal extent: 2015-10-21T00:00:00Z
Description: Trails and other recreation data for New Mexico.	SRS: EPSG:26713
Keywords: Trails, New Mexico, Recreation	Extents: 140819.3472243, 348632.4092870
Name: nm_continental_divide_trail	Access: WMS, CZS
Title: Continental Divide Trail	Registration Date: 2015-10-21T17:22:47Z



Browse Catalog: Another Example



Find DOQQs
under Imagery



Web Services

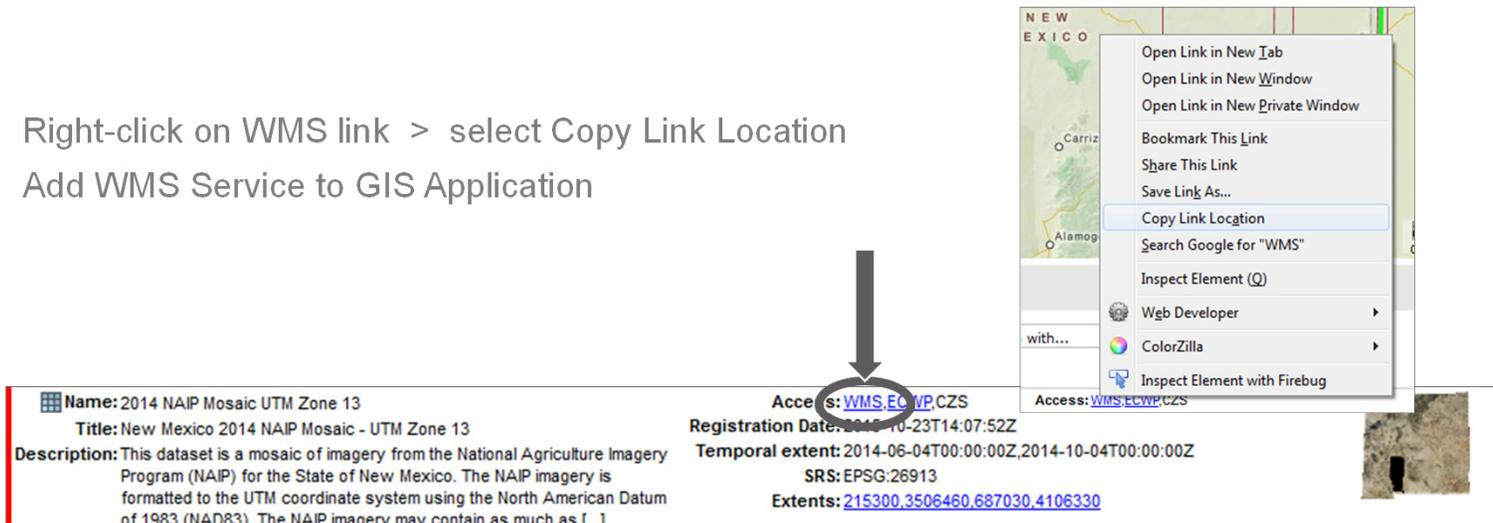
Imagery > Digital Orthophotography > 2014 > NAIP > Mosaic
Select Data Set (also in this example, Show Extent and Add to Map)

The screenshot displays the RGIS Data Portal interface. On the left is a 'Browse RGIS Catalog' tree with a grey arrow pointing to the 'Mosaic' folder under '2014' > 'NAIP'. The main map area shows a geographic view of New Mexico with a green rectangle highlighting a specific area near El Paso. Below the map, a metadata panel for the selected '2014 NAIP Mosaic UTM Zone 13' is visible, including details like 'Title: New Mexico 2014 NAIP Mosaic - UTM Zone 13', 'Description: This dataset is a mosaic of imagery from the National Agriculture Imagery Program (NAIP) for the State of New Mexico...', 'Access: WMS, ECWP, CZS', and 'Extents: 215300, 3506460, 687030, 4108330'. The bottom of the interface shows a 'Clip-Zip-Ship' toolbar and pagination information: 'Page 1 of 4', '10 Items per page', and 'Displaying 1 - 11 of 36'.



Web Services

Right-click on WMS link > select Copy Link Location
Add WMS Service to GIS Application



Name: 2014 NAIP Mosaic UTM Zone 13
Title: New Mexico 2014 NAIP Mosaic - UTM Zone 13
Description: This dataset is a mosaic of imagery from the National Agriculture Imagery Program (NAIP) for the State of New Mexico. The NAIP imagery is formatted to the UTM coordinate system using the North American Datum of 1983 (NAD83). The NAIP imagery may contain as much as 1

Access: [WMS:ECWPCZS](#)
Registration Date: 2014-10-23T14:07:52Z
Temporal extent: 2014-06-04T00:00:00Z,2014-10-04T00:00:00Z
SRS: EPSG:26913
Extents: [215300,3506460,687030,4106330](#)



NM RGIS Quick Guides and Videos

Finding Data

Interactive Mapping

Downloading Data

access Quick Guides at rgis.unm.edu

You-Tube Videos

RGIS Tutorials

New Mexico Resource Geographic Information Program, geospatial data clearinghouse



The image shows two YouTube video thumbnails. The left thumbnail is titled "RGIS Find & Download Data" and has a duration of 2:46. The right thumbnail is titled "RGIS Clip Zip & Ship" and has a duration of 3:27. Both videos are by EDAC UNM and were posted 5 months ago.

Video Title	Duration	Views	Posted
RGIS Find & Download Data	2:46	166 views	5 months ago
RGIS Clip Zip & Ship	3:27	128 views	5 months ago



NM RGIS Data Portal rgis-data.unm.edu November 2017



QGIS Documentation

QGIS has a lot of documentation. All documentation is in English but some documents such as the user guide are also available in other languages.

You will find documentation for every QGIS release on the respective documentation website.

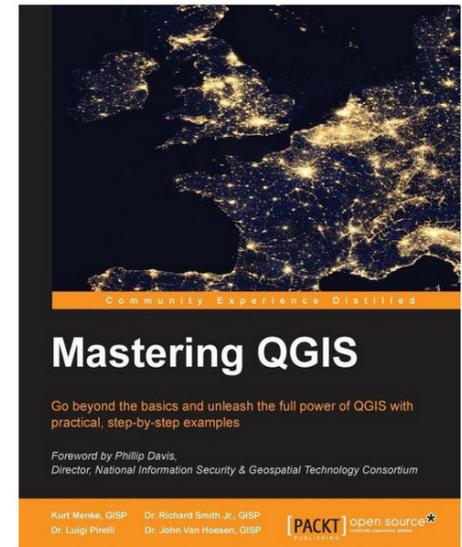
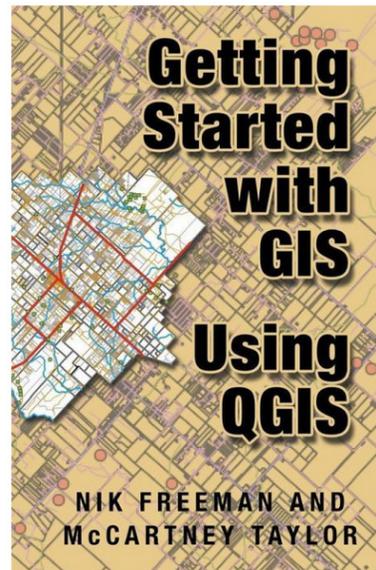
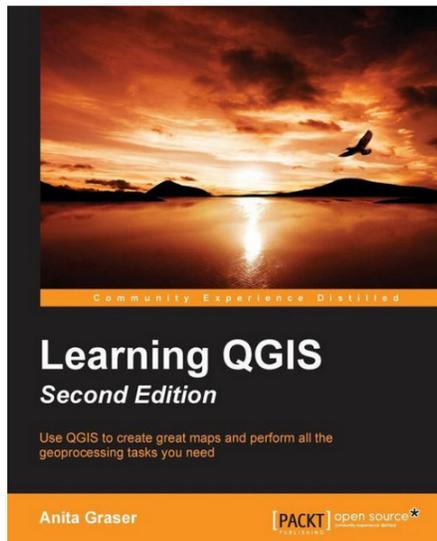
2.18

For users:

- Read the [QGIS User guide](#) (or as PDF)
- Follow the tutorials in the [QGIS Training manual](#) (or as PDF)
- Learn GIS basics in [A gentle introduction in GIS](#)

For documentation updates:

QGIS Help





Laura Gleasner, Data Manager
505-277-3622 ext. 230
lgleasner@edac.unm.edu

Su Zhang, Sr Research Engineer 1
szhang@edac.unm.edu



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