Discovering and Using Data

NC OneMap
How to Search for Data
http://data.nconemap.gov
Browse

Use this page to browse resources in the geoportal.

- **Browse Resources**
  - **Alphabetical**
    - 0-9
    - A-C
    - D-F
    - G-I
    - J-L
    - M-O
    - P-R
    - S-U
    - V-Z
  - **Content Type**
    - Applications
    - Clearinghouses
    - Documents
    - Downloadable Data
    - Geographic Activities
    - Geographic Services
    - Live Map Services
    - Map Files
    - Offline Data
    - Static Map Images
    - Topic Category (ISO)

Select one of the items in the tree to view a specific list of resources.
Browse

Use this page to browse resources in the geoportal.
Imagery

Step 1: Select an area

Step 3: Enter email address

e-mail address: 

Download
NC OneMap GeoSpatial Portal

Search:

Text: address 2014

Results 1-10 of 224 record(s) 1 2 3 4 5 > Last

Expand Results

NC OneMap Location - Map Service

This map service contains address points collected in 2009 and 2014 for North Carolina. These data are a compilation of the best available representation of situs addresses and their location. The Center for Geographic Information and Analysis contacted c...

Download/Open  Preview  Globe (.kml)  ArcGIS (.nmf)  ArcGIS (.lyr)  Add To Map  Details  Metadata  Zoom To

North Carolina Master Address Dataset of 2014

The NC Master Address Dataset represents a compilation of the best available representation of situs addresses and their location. The Center for Geographic Information and Analysis contacted county and municipal governments to acquire this information, ...
http://www.nconemap.com/ParcelsforNorthCarolina.aspx
Center for Geographic Information & Analysis

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Second Section of Slide Set
Sharing quality data is good for North Carolina
A good map + collaboration = mutual benefits
Value of Statewide Datasets

Consistency – data standardized across counties and regions
Efficiency – data can be analyzed comprehensively
Trust – data documented from state and local government sources
Capability - do more in less time
NC OneMap

What?

- Partnerships
- Data sharing
- Data standards
- Documentation
- Archiving

Geospatial Portal
- Data downloads (~300)
- Map services (~90)
NC OneMap Geospatial Portal

Dept. Agriculture

NC DOT

Dare County

Surveyor

Citizen

Forester

Planner
- Historical (1996 – 2009)
- Orthoimagery Program (2010+)
  - Statewide coverage
  - 6” resolution
  - True color, leaf off
  - Updated - fly 25% every year
  - No area with imagery older than 4 yrs.
NC OneMap

Parcels

- Statewide coverage
- Provided by county governments
- ~5.6 million parcels, 30+ attributes
- Updated regularly (TRANSFDATE field)
NC OneMap
Other Data of Interest

- Flood Zones
- Geodetic Control Pts.
- Wetlands (NWI)
- Soils
- Hydrography
- Political Boundaries
- USGS Quads
- Water Sources
- Parcels
NC OneMap

How?

• **Files** to download and use with GIS software
  • Store locally
  • Check with source for updates
  • Functionality depends on software
  • Archive with project data

• **Web services** to consume in GIS software or applications
  • Streaming from a server
  • No local storage
  • Streams the latest updated service
  • Functionality varies (map service v. feature service)
Web Map Service Formats

- AutoCad Civil 3D / Map 3D
- QGIS (free)
- Esri ArcGIS
- Gaia 3 (free)
- Bentley Microstation V8i

Information Technology
Geospatial Portal Demo

How to Search for Data
And Now This

Windsor was established by an act of the Colonial Assembly in 1768 at the site known as what?
For Another Snack

Windsor was entered in the National Register of Historic Places in what year?

Bonus: who won the ACC men’s basketball tournament that year?
For Another Snack

Which of the following is not a strategic business cluster for Bertie County (2013)?

A. Agribusiness
B. Bio-mass and energy
C. Advanced manufacturing
D. Adventure tourism
E. Waterfront development
Geographic Information Matters!
<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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</thead>
<tbody>
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<td>OBJECTID</td>
<td>2469204</td>
</tr>
<tr>
<td>STNAME</td>
<td>NC</td>
</tr>
<tr>
<td>STFIPS</td>
<td>37</td>
</tr>
<tr>
<td>CNTYNAME</td>
<td>Pender</td>
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<tr>
<td>GNISID</td>
<td>1026129</td>
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<tr>
<td>SOURCEAGNT</td>
<td>Pender County Assessor</td>
</tr>
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<td>2245-89-0184-0060</td>
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<td>NPARNO</td>
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<td>OWNNAME</td>
<td>WEAVER ROYAL WORTH III et al</td>
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<tr>
<td>OWNFRST</td>
<td></td>
</tr>
<tr>
<td>OWNLAST</td>
<td></td>
</tr>
<tr>
<td>SUBURBAN</td>
<td></td>
</tr>
</tbody>
</table>
Scenario: Industry seeking to develop site in NC

Criteria:
• Vacant land at least 20 acres
• Near US Highway interchange
• Polk or Rutherford County

Supporting Data:
• Imagery
• Transportation
• Property boundaries
• Address points
• Elevation
Where are they?

Show potential sites that meet developer criteria

Potential sites meet criteria on both sides of county boundary

With standardized framework data, results can be queried and viewed at one time
What does it look like?

Display the imagery

Farmland? Forest? Adjacent parcels?

Select an area of interest for more detail (yellow)
What is the site like?

Add 20-foot elevation contours

Add address points (orange) for additional reference
Adding Parcel Services in ArcGIS
The connection url to NC OneMap services has changed to **SERVICES.NCONEMAP.GOV**
Please update your bookmarks in your desktop software.
NC1Map_Parcels (FeatureServer)

Service Description: This digital geospatial dataset represents parcel boundaries with state or county data producers and the Eastern Band of Cherokee Indians. The Integrated County data producers to create a standardized dataset with consistent attributes. The soil producers. This dataset includes a core set of cadastral attributes including ownership, acre (parcel boundaries) and points (geometric center) representing each property.

Has Versioned Data: false

MaxRecordCount: 8000

Supported Query Formats: JSON, AMF

Layers:
- County_Boundaries (0)
- Parcel_Centroids (1)
- Parcels (2)
- Counties_Contributing_Parcel_Data (3)

Description:

Copyright Text: Participating NC Counties, NCCGIA, NC OneMap, US EPA

Spatial Reference: 102719 (2264)
ArcCatalog
This wizard guides you through the process of making a connection to an ArcGIS Server. You can create a connection to use, publish, or administer GIS services.

What would you like to do?

- Use GIS services
- Publish GIS services
- Administer GIS server
Server URL: [ ]

ArcGIS Server: http://gisserver.domain.com:6080/arcgis

Authentication (Optional)

User Name: [ ]
Password: [ ]

Save Username/Password

About ArcGIS Server connections
Search for "parcels standard". Results show a digital geospatial dataset representing parcel boundaries with standard core attributes for collection of parcel data from North Carolina county data producers and the Eastern Band of Cherokee Indians. A map service is available for download or open for viewing. More search options are available, including search filters for anywhere, intersecting, or fully within a specified area.
NC1Map_Parcels (MapServer)

View In: ArcGIS JavaScript  ArcGIS.com Map  Google Earth  ArcMap  ArcGIS Explorer

View Footprint In: ArcGIS.com Map

Service Description: This digital geospatial dataset represents parcel boundaries with stand and the Eastern Band of Cherokee Indians. The Integrated Cadastral Data Exchange project ti consistent attributes. The source geometry is retained as published by individual county data acreage, and assessed value. Parcels are represented as both polygons (parcel boundaries) a

Map Name: Layers

Legend

All Layers and Tables

Layers:

- County Boundaries (0)
- Parcel Centroids (1)
- Parcels (2)
- Counties Contributing Parcel Data (3)

Description:

Copyright Text: Participating NC Counties, NCCGIA, NC OneMap, US EPA

Spatial Reference: 102719 (2264)
This XML file does not appear to have any style information associated with it. The document tree is shown below.

```xml

  <ows:Title>NC1Map Statewide Parcels</ows:Title>

  <ows:Abstract>
  This digital geospatial dataset represents parcel boundaries with standard core attributes for a collection of parcel data from North Carolina county data producers and the Cherokee Indians. The Integrated Cadastral Data Exchange project transforms source datasets from county data producers to create a standardized dataset with consistent attributes. The metadata is maintained by individual county data producers. This dataset includes a core set of cadastral attributes including ownership, acreage, and assessed value represented as both polygons (parcel boundaries) and points (geometric center) representing each property.
  </ows:Abstract>

  <ows:ContactInformation>
  <ows:ContactPersonPrimary>
    <ows:ContactPerson>
      <ows:givenName>Brett Spivey</ows:givenName>
    </ows:ContactPerson>
  </ows:ContactPersonPrimary>
  <ows:ContactOrganization>
    <ows:givenName>NC Center for Geographic Information and Analysis</ows:givenName>
  </ows:ContactOrganization>
  
</ows:Capabilities>
```

OnlineResource: Xlink:href="http://services.nconemap.gov/arcgis/services/NC1Map_Parcels/MapServer/WMS?request=GetCapabilities&service=WMS"
NC OneMap Tutorial Videos

1. Overview – searching for data and web services
2. What’s new in the Geospatial Portal
3. How to use Esri based web services
4. How to use Open Geospatial Consortium (OGC) services
5. Search the Portal directly from the browser
6. How to download imagery
7. Use WMS services in Microstation
8. Use WMS services in AutoCAD
9. Use NC OneMap services with Carlson
AutoCad

https://www.youtube.com/watch?v=tYyXxePYL_A&feature=youtu.be
A Vicinity Map Using Services
**GO! NC** is the North Carolina Department of Transportation’s (NCDOT) portal through which NCDOT staff, business partners, and others can access and publish geospatial information pertaining to transportation in North Carolina.

**Discover**

- Maps & Apps
- Geospatial Services
- Downloads
- Documents
NCDOT North Carolina Railroads

North Carolina rail lines provided by the NCDOT Rail Division.

Last Modified: February 16, 2016

(0 ratings, 0 comments, 695 views)
Useful Links

http://data.nconemap.gov
- Tutorial videos
- Auto-notification of new data

http://nconemap.gov
- Latest news/developments with our blog
- General program information

https://services.nconemap.gov
- Links to services hosted by CGIA
- FAQ / Best practices for GIS web services

http://ncgicc.org
- Information about the NC Geographic Coordinating Council
  - statewide initiatives, standards, contacts
Contact NC OneMap

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