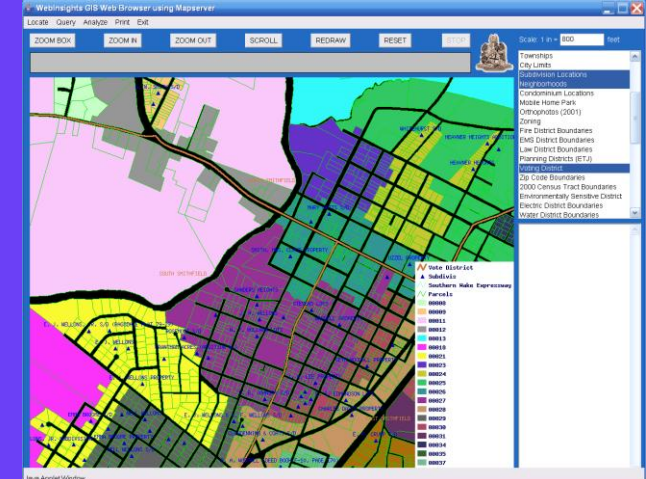
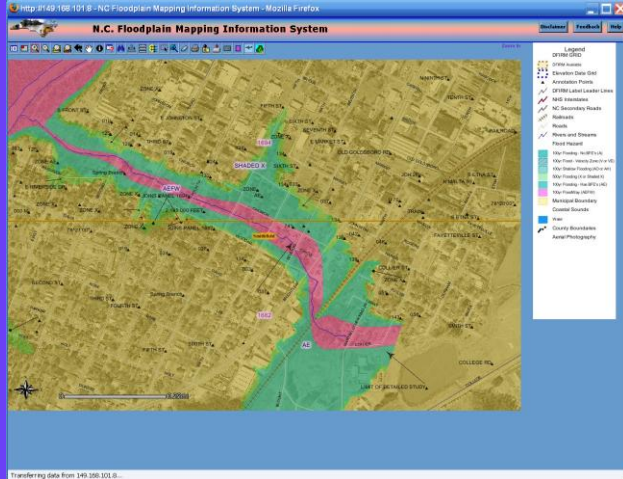
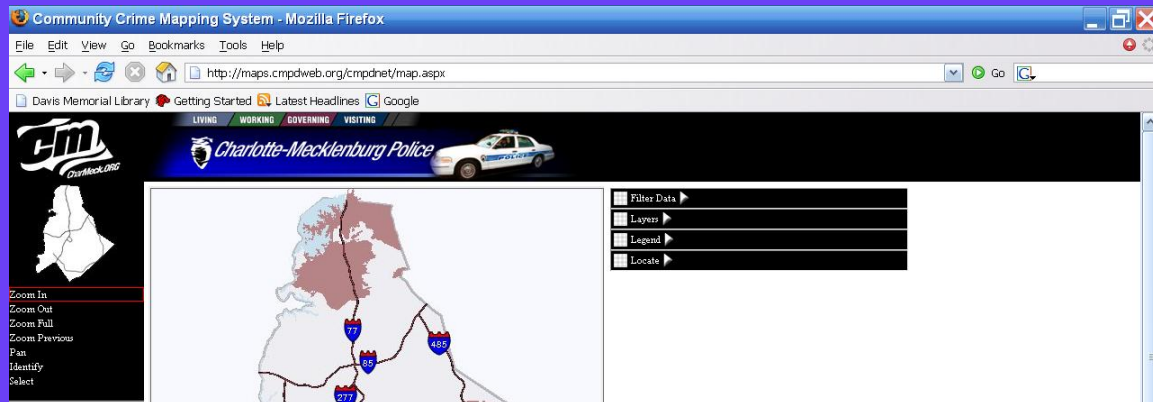
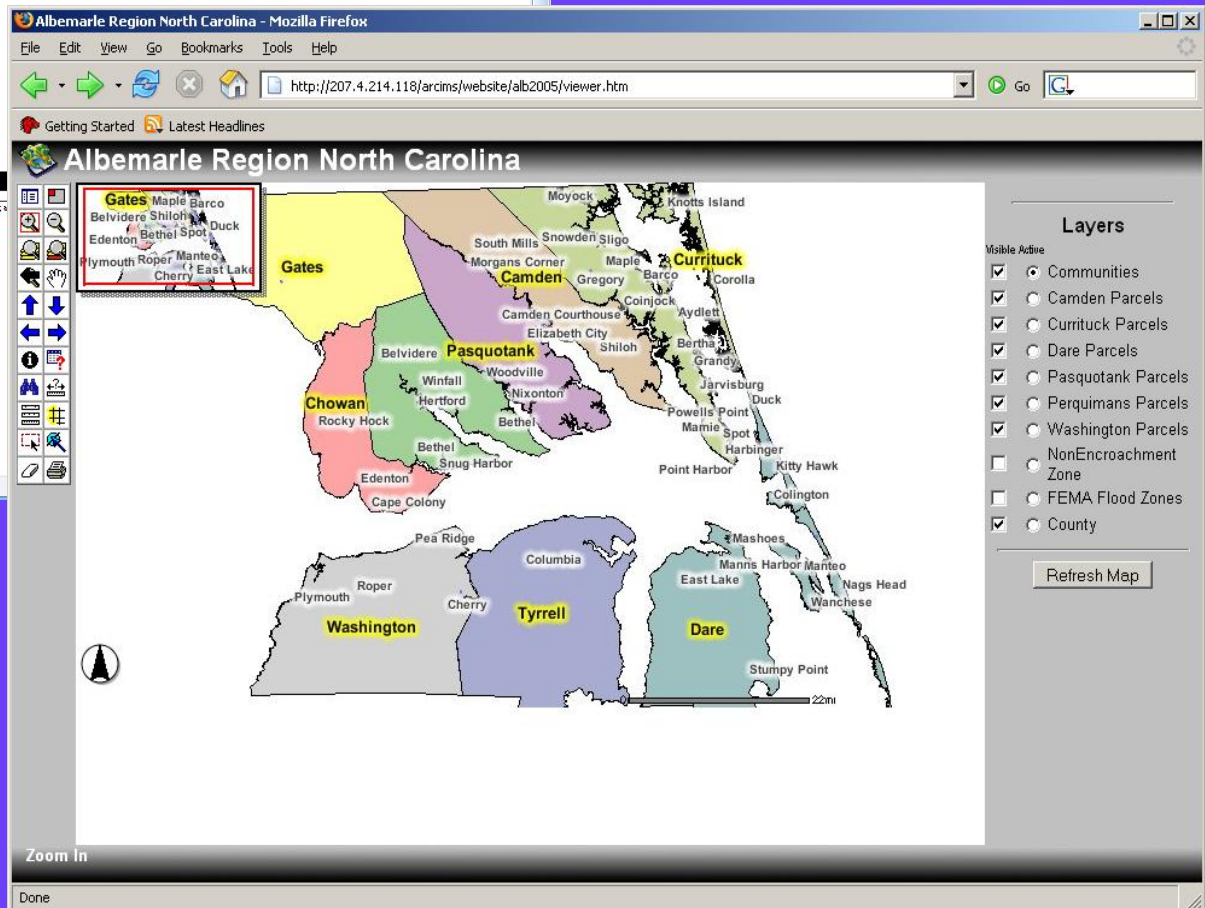
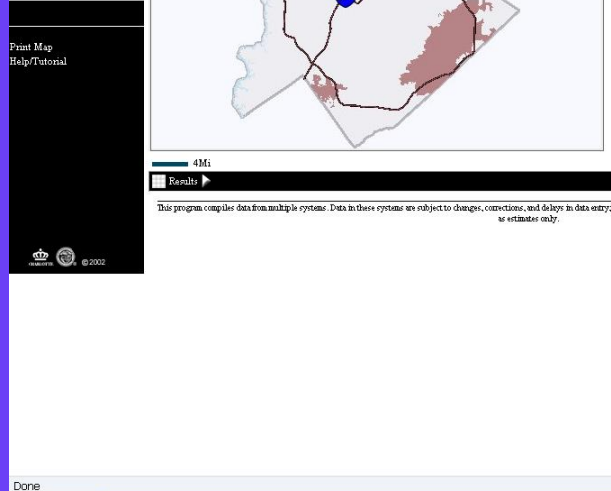




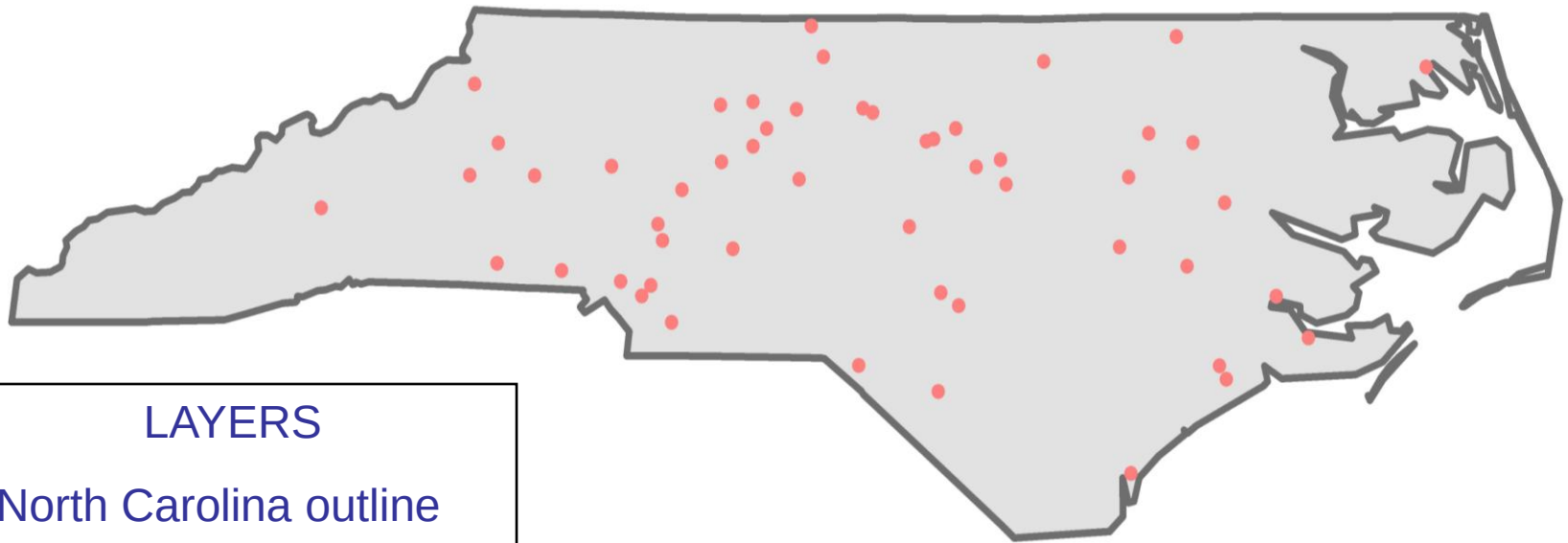


Two interactive mapping web sites



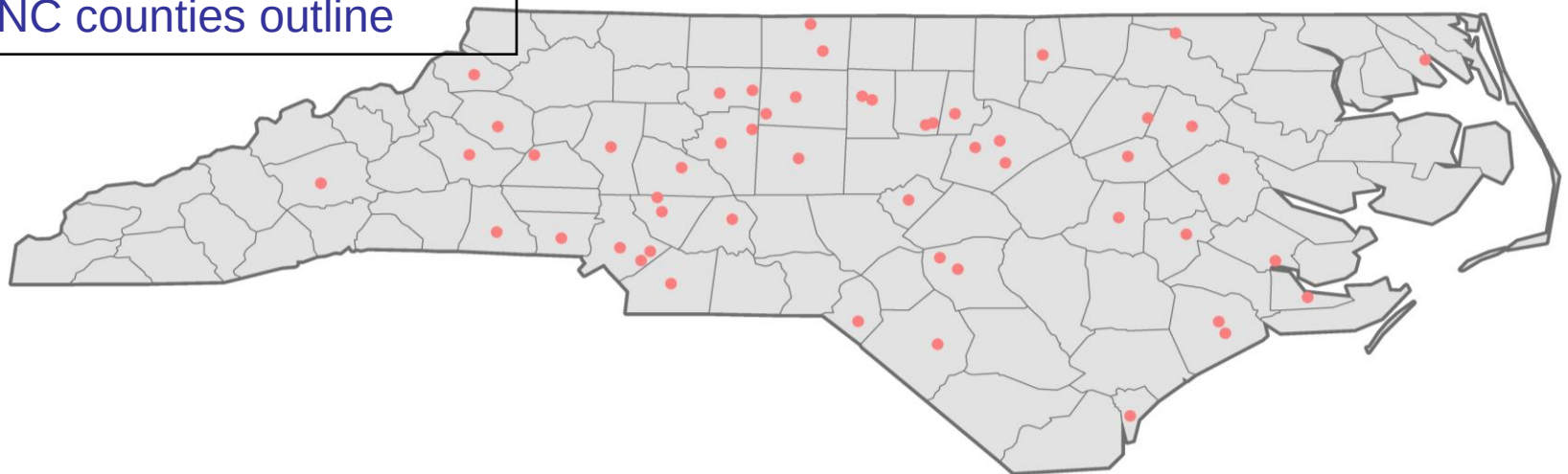
Purpose of talk

- Explain what an interactive mapping web site is (alternative phrase “Internet mapping”)
- Explain what you can use these sites for.
 - Answer questions
 - Locate places
- Explain the tools used on these sites
- Explain what GIS is



LAYERS

- North Carolina outline
- NC cities and towns
- NC counties outline



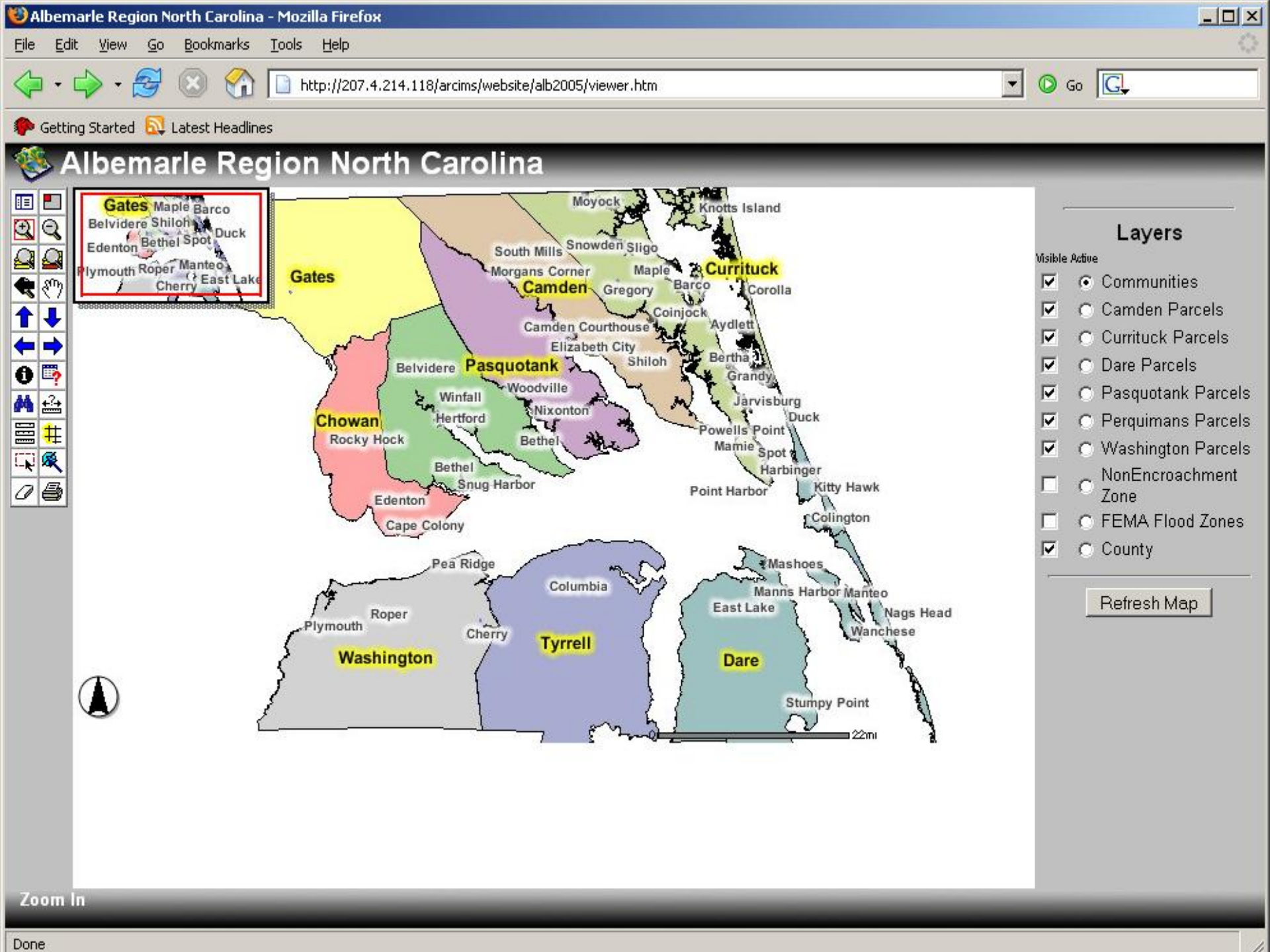
Layers on a map



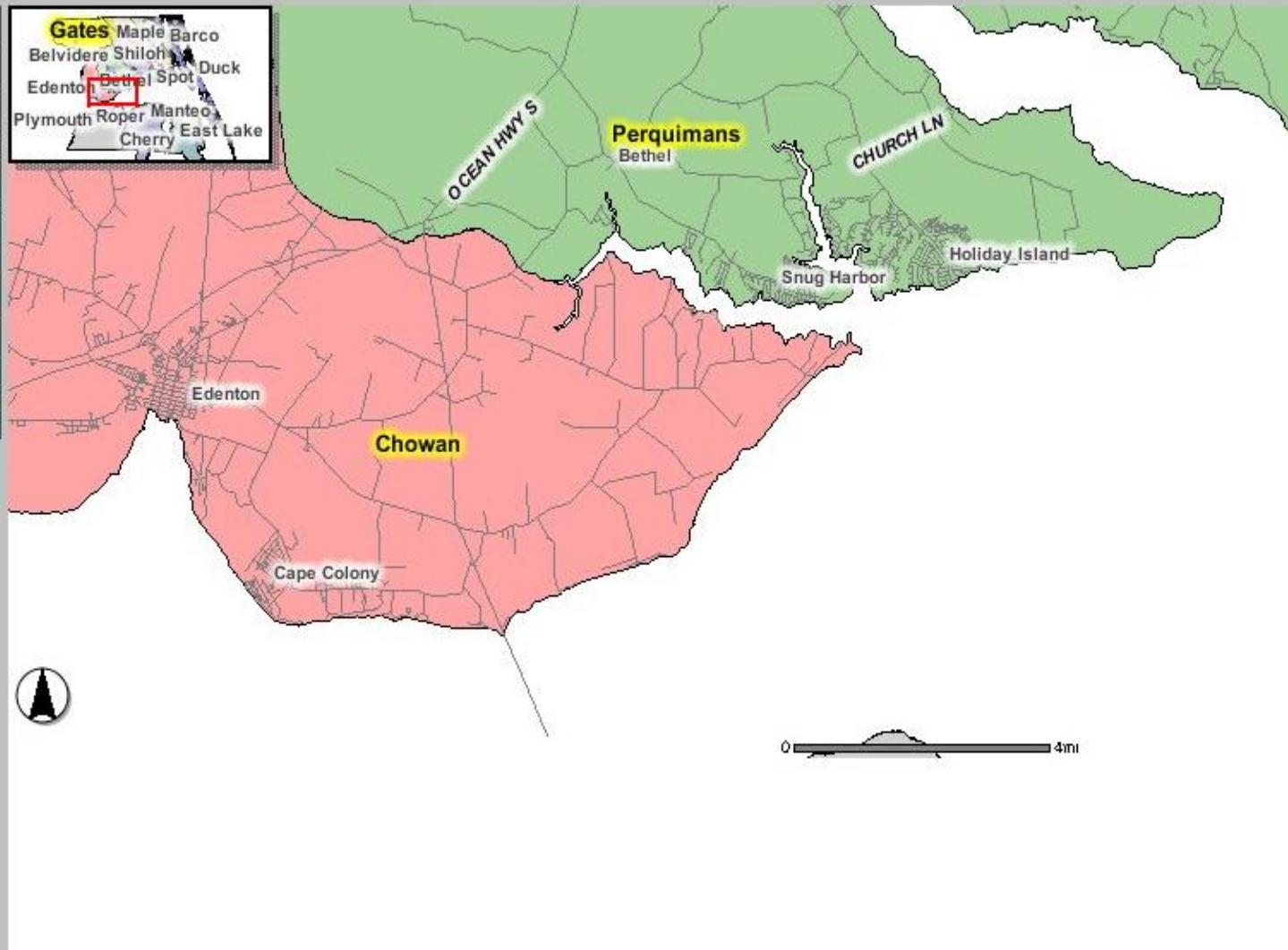
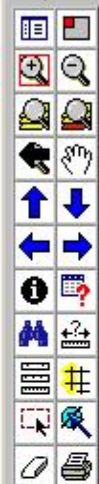
- Signed bicycle route
- Greenway
- Road, street
- Limited access highway
- Parks
- Fire Stations
- Lakes
- Streams
- County boundaries

Kinds of questions

- Which school district is this house in?
- Is this house in a floodplain?
- What is the zoning in this part of town?
- What kinds of crime occur in this neighborhood?
- On a day trip to the beach what access do I have to the beach?
- What kinds of businesses are located in this part of town?



Albemarle Region North Carolina



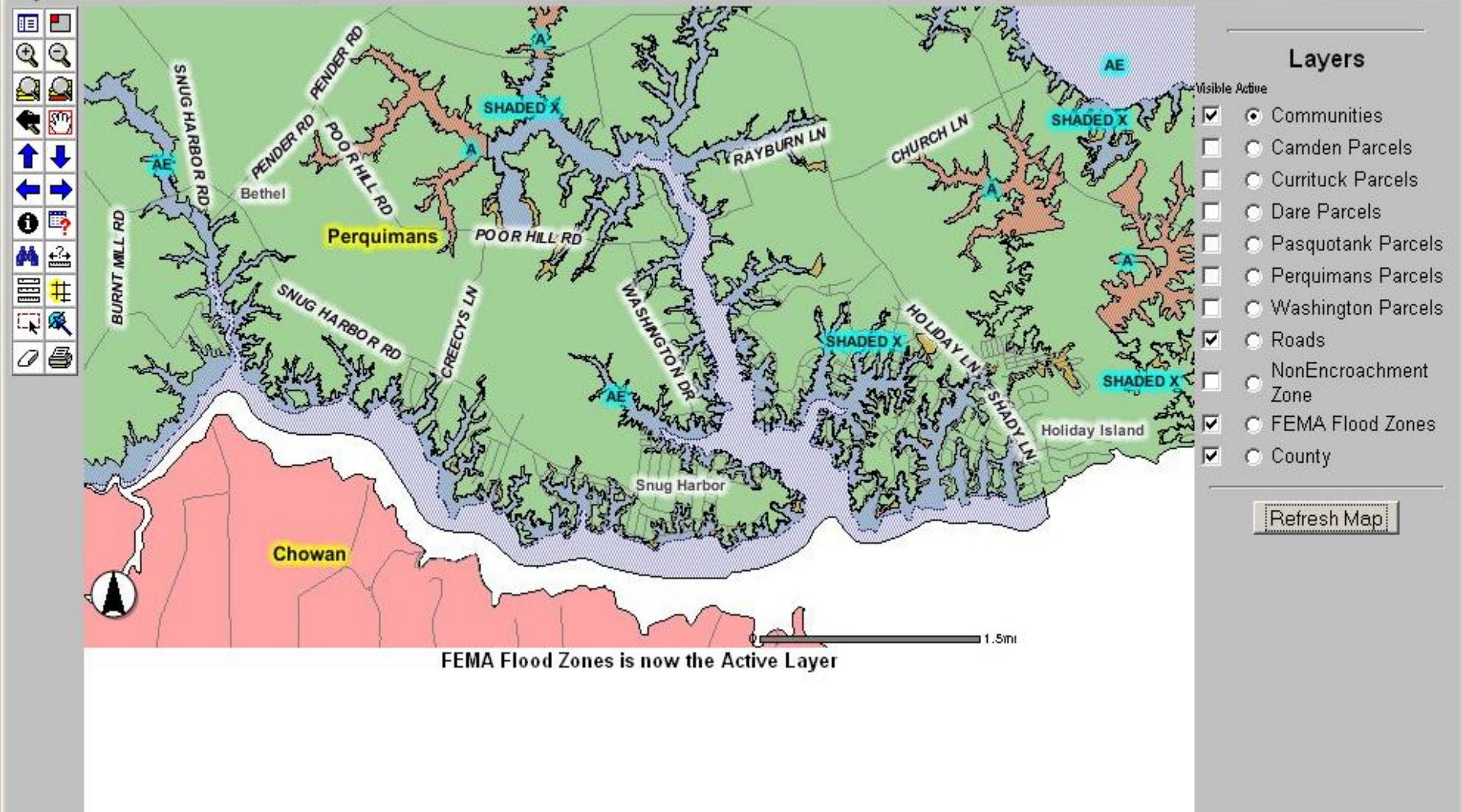
Layers

- | Visible | Active | Layer Name |
|-------------------------------------|----------------------------------|----------------------|
| ☒ | ☒ | Communities |
| ☒ | ☐ | Camden Parcels |
| ☒ | ☐ | Currituck Parcels |
| ☒ | ☐ | Dare Parcels |
| ☒ | ☐ | Pasquotank Parcels |
| ☒ | ☐ | Perquimans Parcels |
| ☒ | ☐ | Washington Parcels |
| ☒ | ☐ | Roads |
| ☐ | ☐ | NonEncroachment Zone |
| ☐ | ☐ | FEMA Flood Zones |
| ☒ | ☐ | County |

Refresh Map

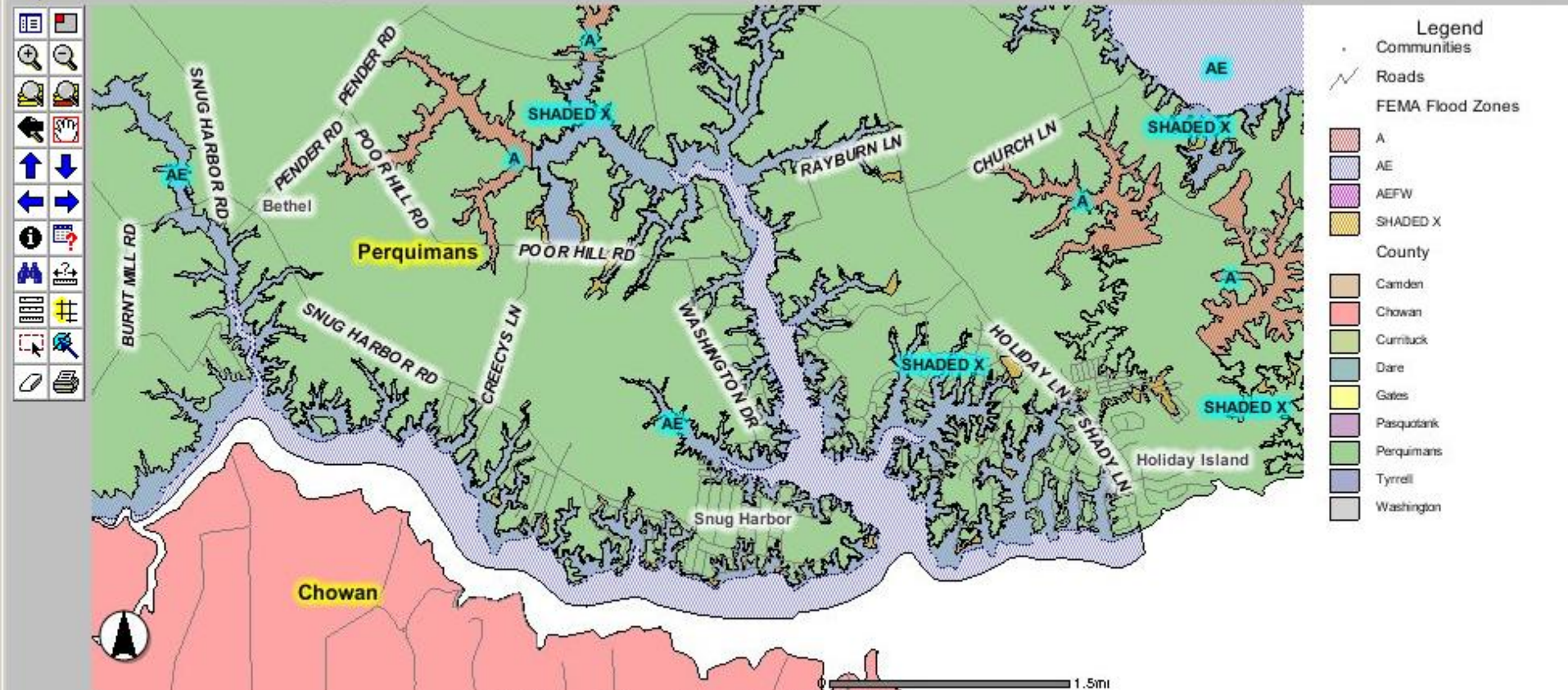
Zoom In

Albemarle Region North Carolina

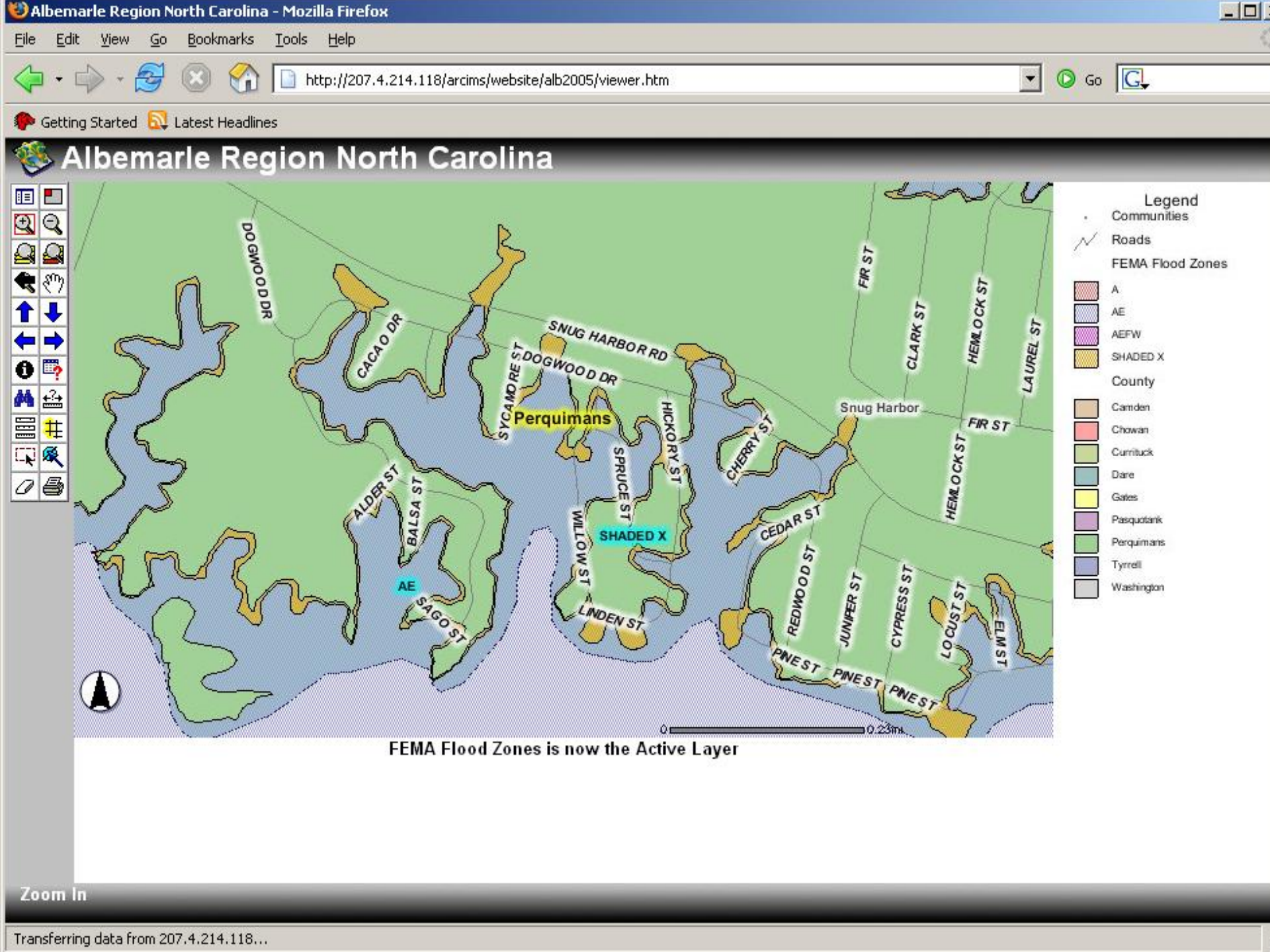


Pan

Albemarle Region North Carolina



FEMA Flood Zones is now the Active Layer



Albemarle Region North Carolina



- ## Layers
- | Visible | Active | Layer Name |
|-------------------------------------|----------------------------------|----------------------|
| ☒ | ☒ | Communities |
| ☐ | ☐ | Camden Parcels |
| ☐ | ☐ | Currituck Parcels |
| ☐ | ☐ | Dare Parcels |
| ☐ | ☐ | Pasquotank Parcels |
| ☐ | ☐ | Perquimans Parcels |
| ☐ | ☐ | Washington Parcels |
| ☒ | ☐ | Roads |
| ☐ | ☐ | NonEncroachment Zone |
| ☐ | ☐ | FEMA Flood Zones |
| ☐ | ☐ | *Aerial Photograpy |
| ☒ | ☐ | County |

Refresh Map

FEMA Flood Zones is now the Active Layer

Albemarle Region North Carolina



- Legend**
- Communities
 - Perquimans Parcels
 - Roads
 - FEMA Flood Zones
 - A
 - AE
 - AEFW
 - SHADED X
 - County
 - Camden
 - Chowan
 - Cumtuck
 - Dare
 - Gates
 - Pasquotank
 - Perquimans
 - Tyrrell
 - Washington

FEMA Flood Zones is now the Active Layer



Layers

Visible Active

- | | | |
|-------------------------------------|----------------------------------|-----------------|
| ☐ | ☐ | Ortho Photos |
| ☐ | ☐ | Schools |
| ☐ | ☐ | City Limits |
| ☒ | ☐ | Floodway |
| ☒ | ☐ | Minor Hydrology |
| ☒ | ☐ | Major Hydrology |
| ☐ | ☒ | Parcels |
| ☐ | ☐ | Structures |
| ☐ | ☐ | Watershed |
| ☐ | ☐ | Fire Districts |
| ☒ | ☐ | Zoning |
| ☒ | ☐ | Major Roads |
| ☐ | ☐ | Road Names |
| ☐ | ☐ | MPO |

Legend

Zoning

- | | |
|--|------------------------------|
| | |
| | B-1 Central Business |
| | B-2 Community Business |
| | B-3 Highway Business |
| | M-1 Manufacturing |
| | R-1 Neighborhood Residential |
| | R-2 Residential Agriculture |
| | Major Roads |

Demonstrations

- NC FloodPlain Mapping
- Truck crashes from Highway Safety Research Center
- Charlotte-Mecklenburg Police Department
- Alexander County

Disclaimers

Johnston County

User Agreement

The Community Crime Information System has been designed to be an easy and efficient way for citizens to research calls for police service and reported incidents occurring in the Charlotte-Mecklenburg Police jurisdiction.

This system is subject to current public information rules and regulations. Records in the system are subject to changes, corrections, and delays in data entry. In addition, the information provided is susceptible to a degree of error due to the process involved in compiling data and running the application. No guarantee is made regarding the accuracy, precision, timeliness, completeness, or any other aspect of the data provided.

Calls for service and reported incidents that appear on the map represent substantially estimated locations, not actual locations, of where the events occurred.

The presentation of data in mapped form is being provided as a courtesy of the Charlotte-Mecklenburg Police Department rather than as a requirement. Assistance with this site can be found through the application's [Help/Tutorial](#) link. The Charlotte-Mecklenburg Police Department is under no obligation to extend additional support or assistance regarding this application and / or data contained within.

I have read and understand the information listed above and accept the terms of use.

Accept

Decline

CUSTOMER NOTICE:

Using MapClick, our interactive public access GIS, you can view, query, search and print maps of various data. Some of the map layers offered include tax parcels, aerial photos, contours, soils, and many others.

MapClick contains map layers for the proposed Highway 70 bypass and the FEMA FIRM data. These layers are provided for general use and should not be relied on for detailed site specific planning. The bypass data is subject to change without notice due to ongoing right of way acquisition, but should be within the general bounds depicted by the layer. New FIRM maps are being produced by the state and FEMA for release later this year.

Information on MapClick is provided as a public service and we make every attempt to have the files gathered from private and public offices as accurate and up to date as possible. However, the City of Charlotte maintains no legal responsibility for the information. Customers should consult primary information sources for the information contained on this website.

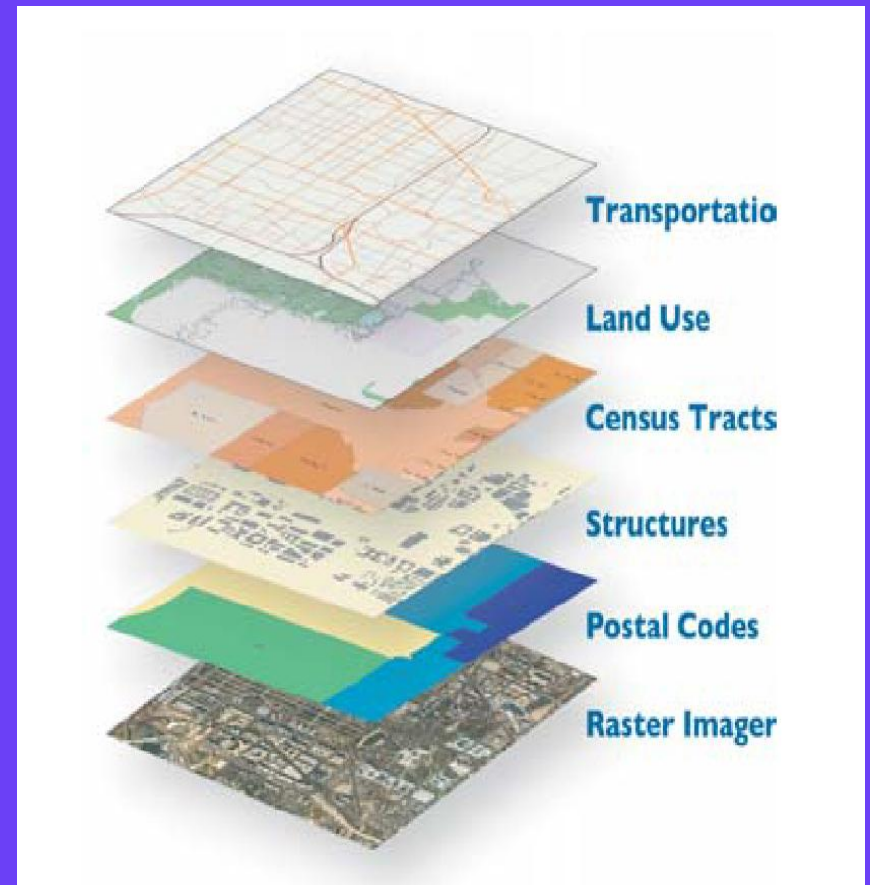
Charlotte-Mecklenburg Police Department

What is a Geographic Information System (GIS?)

- Hardware
- Software
- Data
 - Geo-referenced data
 - Tabular data
- Trained personnel
- Used in many businesses
- Combine with GPS, handheld devices, remote sensing imagery

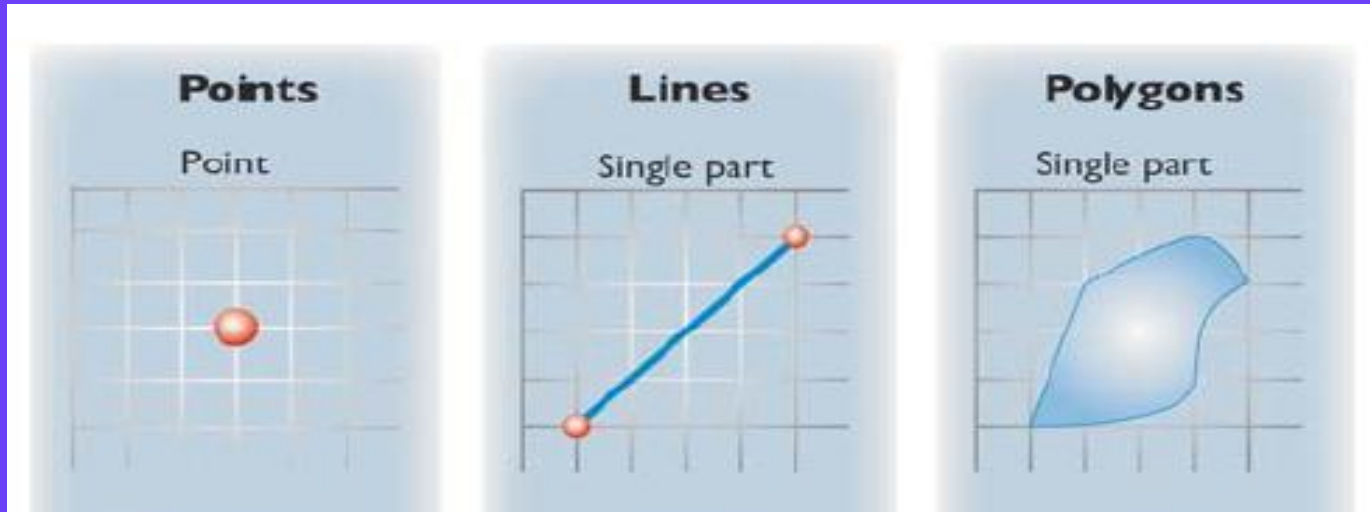
Data layers

- Census records
- Property records
- Crime incident records
- Soil data
- Land use data



From: "What is ArcGIS 9.1"
by ESRI Press, p.8

Vector data



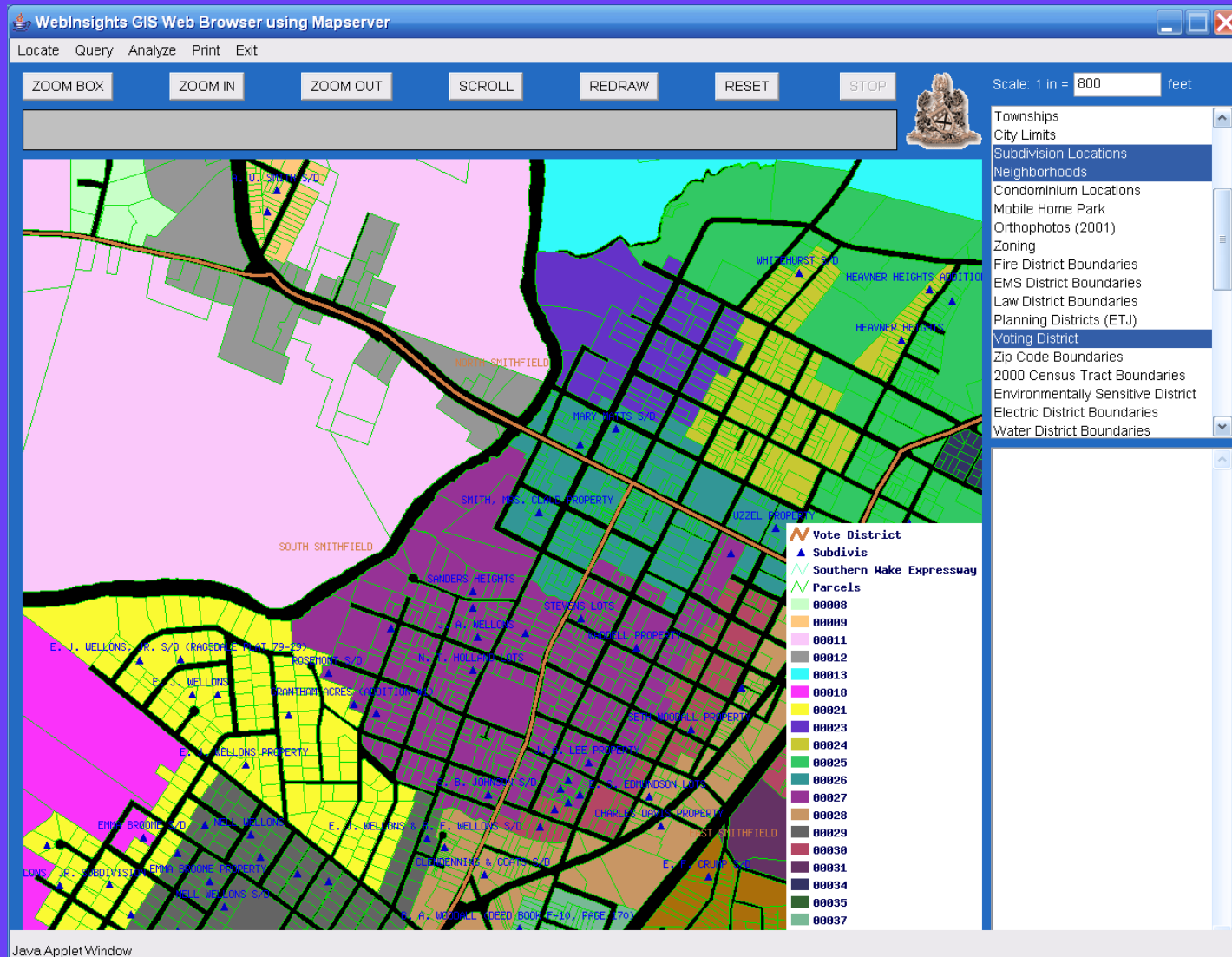
Feature classes

- point feature class for schools
- line feature class for roads
- polygon feature class for lakes

Spatial references

- Geo-referenced data
 - X, Y coordinates
- Base layers
- Geocoded data
 - on address or zipcode or census tract or county
- Tabular data

Johnston county : zip codes & voting districts



More city sites

Durham Spatial Data Explorer

FYI City of Durham Durham - GIS OEED Convert Parcel ID Help Contacts Durham County Feedback

Map Layers
Draw selected layers:
[Draw Layers](#)

Selection

Boundary
☒ City Boundary
Chapel Hill ☐
Durham ☐
Morrisville ☐
Raleigh ☐
Tax Parcels ☐
☐ Census Geography
☐ FEMA Flood Zones
☐ Voting Precincts
☐ Zoning
☐ Wards
☐ PAC Districts

Economic Development
Target
☐ Community Development Area
☐ Downtown Districts
☐ Loan Priority Area
☐ Community Development Area
☐ Economic Development Zone
☐ Urban Growth Area

Infrastructure
☐ Street Centerlines
☐ Railroads
☐ Polls
☐ Schools

MAP TOOLS Zoom In: Click and Drag to create a Zoom Box or Click on the map to zoom in to that point.
Click & Draw a Box to: ☒ ZoomIn ☐ ZoomOut ☐ Select Multiple Parcels
Click to: ☐ ReCenter Map ☐ Identify Map Feature ☐ City Boundary
Search By: ☐ Radius (feet) 0 MapScale 1: 237252

Parcel Query
Tax Values Search
Parcel Number Ex(000000):
PIN Number EX(0000-00-0000):
Site Address Ex(218 E Main):

Reference Map

CITY OF GREENVILLE North Carolina **Spatial Data Explorer** Home Contact Help

Click on the Map to:
☒ ZoomIn ☐ ZoomOut ☐ ReCenter Map ☐ Identify: City

Map Layers
Draw selected layers:
[Draw Layers](#)

☐ Parcels
☐ FEMA Flood Zones
☐ Zoning
☐ Land Use
☒ City Limits

SCALE 1 : 226216

Locality Map

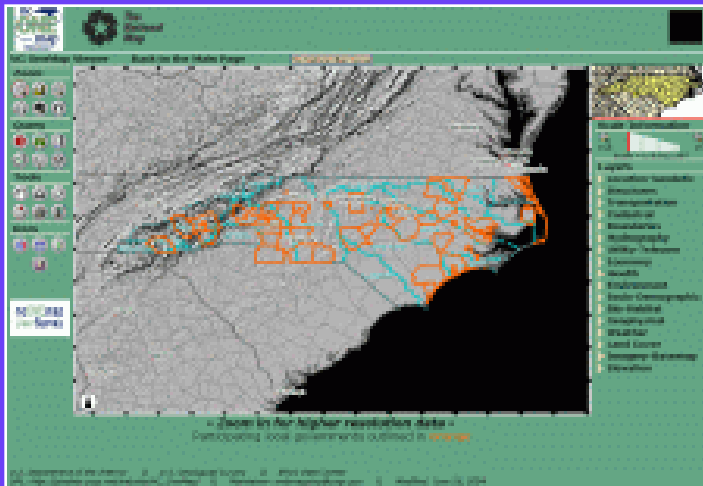
Parcel Query
Find a parcel by one (or parts of one) of the following:
Address: St. # St. Name St. Type
Owner: Last Name First Name
PIN:

DISCLAIMER This map is prepared for the inventory of real property found within this jurisdiction, and is compiled from recorded deeds, plats, and other public records and data. Users of this map are hereby notified that the aforementioned public primary information sources should be consulted for verification of the information contained on this map. The city, county and the mapping and software companies assume no legal responsibility for the information contained on this map or in this website.
Current Date: 9/21/05 Time: 4:11:09 PM

****NOTE:** Parcels can be drawn only when zoomed to 1:48000 or more.

What is NC OneMap?

- Collection of data on North Carolina
- Data provided by local governments
- Data can be manipulated
- Data can be downloaded



Summary

- What is an interactive mapping web site?
- How many out there?
- Read *Disclaimers*
- Read *Help* screens
 - how to construct queries
- Remember information comes from databases

Handout

- Sites shown in talk
- Selected other NC sites
- Links to lists of NC sites
- Some federal sites
- Site handout

The screenshot shows a web browser window titled "North Carolina City GIS Data: GIS: NCSU Libraries - Mozilla Firefox". The address bar shows the URL "http://www.lib.ncsu.edu/gis/cities.html". The page content includes a sidebar with "NCSU LIBRARIES" and a main section titled "NORTH CAROLINA CITY GIS DATA". The main section has an "Overview" tab selected, showing an "Overview" section with text about GIS data acquisition and a table of cities with links to their respective GIS data.

NORTH CAROLINA CITY GIS DATA

Overview | Cities

Overview

The NCSU Libraries is currently acquiring GIS data from North Carolina local governments. Currently data is mostly being acquired from counties, but some city data is also being acquired. In a few cases is city data publicly downloadable, and Web map server sites are available for some cities. Key data resources from counties zoning, infrastructure, administrative districts, and cultural data layers.

If you can't find the local GIS data you are looking for by city, try searching the NC County GIS Data page.

Sources for information about city GIS services:

- 1997 Survey of GIS Data Availability for NC Counties
- BSGC FGBC Framework Survey (1997-1998)
- NC BRISA Membership

Cities

Additional documentation will be added during the coming weeks. Contact Data Services with questions about data availability or access. NOTE: Library holdings are available for use by NCSU faculty, staff and students only. Other users must contact the local governments directly.

City	Web mapping	Web site	Public download
Asheville	n/a	n/a	n/a
Burlington	n/a	n/a	n/a
Carrboro	Web mapping	Web site	Public download
Cary	Web mapping	Web site	n/a
Chapel Hill	n/a	Web site	n/a
Charlotte	Library access	Web mapping	Web site
Claremont	n/a	Web mapping	Web site
Concord	n/a	n/a	n/a

Contact Information

Susan Pulsipher
Davis Memorial Library
Methodist College
5400 Ramsey Street
Fayetteville, NC 28311

Phone: (910) 630-7122
Email: sue@methodist.edu