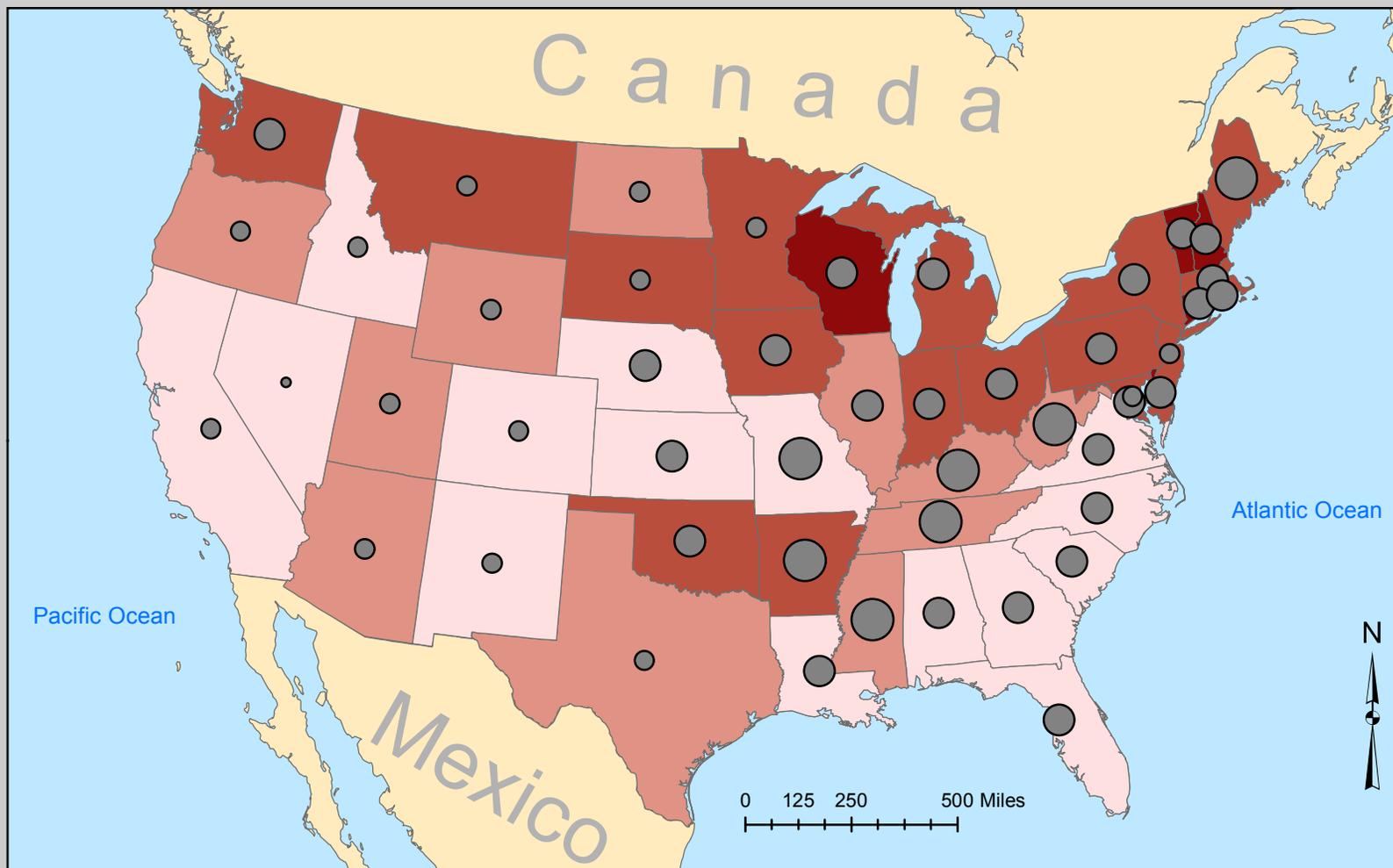


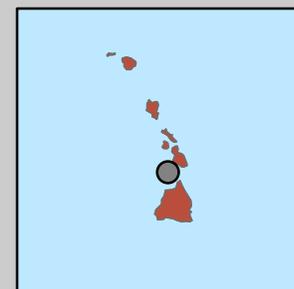
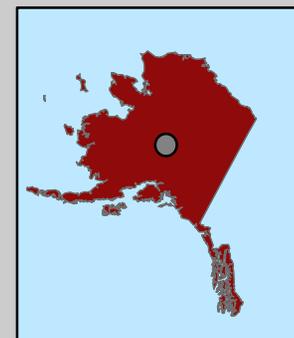
# Lung Cancer vs. Tobacco Revenue in the US



In 2012, the United States raised \$17,605,937,000 on cigarettes and other tobacco related products. During that year, for every 100,000 people in the U.S., there were 60.4 people who died from lung cancer. Each year, there are more than 200,000 new cases of lung cancer in America, and about 150,000 die each year from this disease. This map shows the revenue each state raised normalized by its population, as well as the number of lung cancer deaths per 100,000 people.

Sources: <https://nccd.cdc.gov/uscs/cancersbystateandregion.aspx>  
<https://nccd.cdc.gov/uscs/cancersbystateandregion.aspx>

Map by: Harrison Aiken

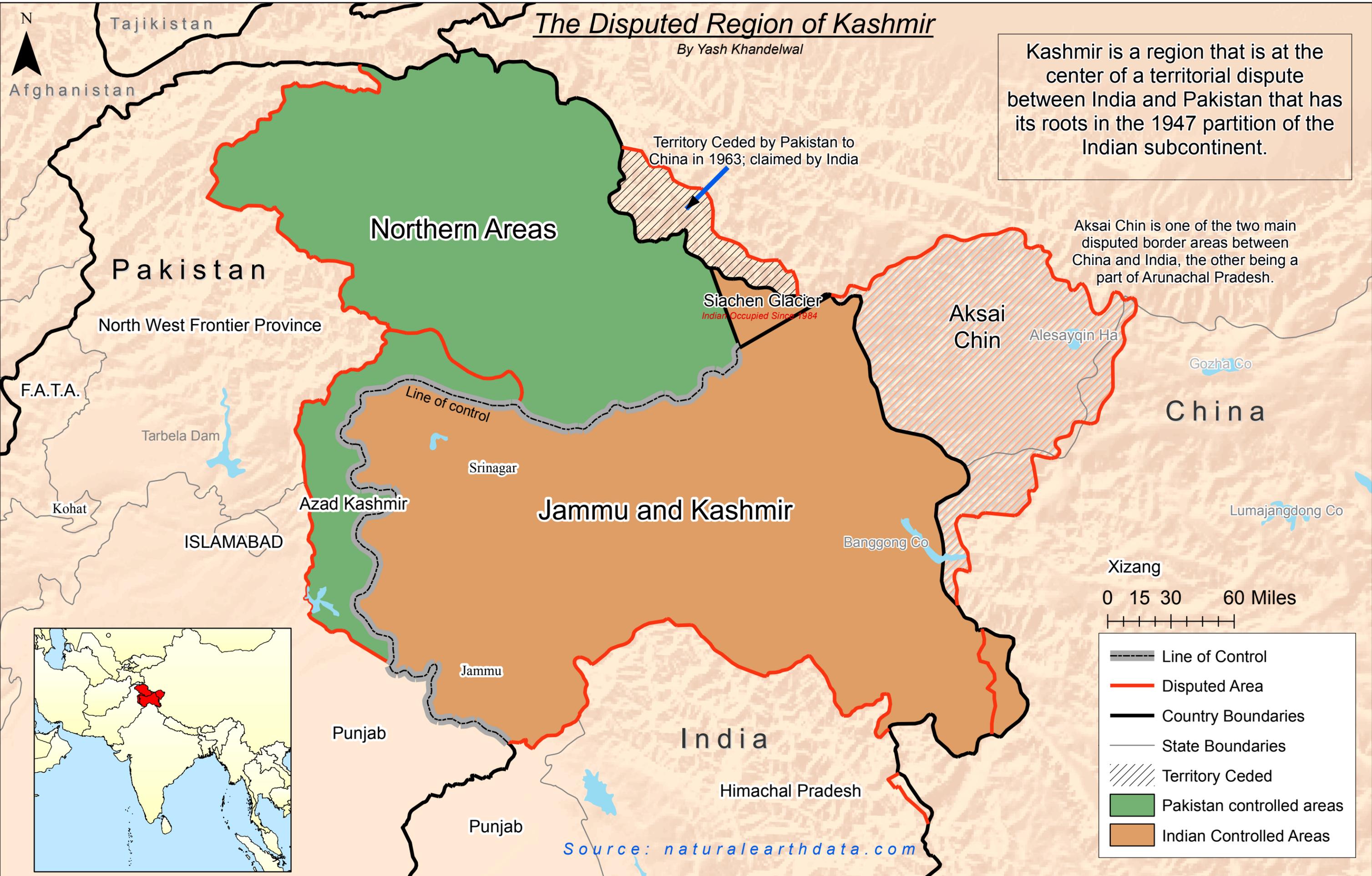


# The Disputed Region of Kashmir

By Yash Khandelwal

Kashmir is a region that is at the center of a territorial dispute between India and Pakistan that has its roots in the 1947 partition of the Indian subcontinent.

Aksai Chin is one of the two main disputed border areas between China and India, the other being a part of Arunachal Pradesh.

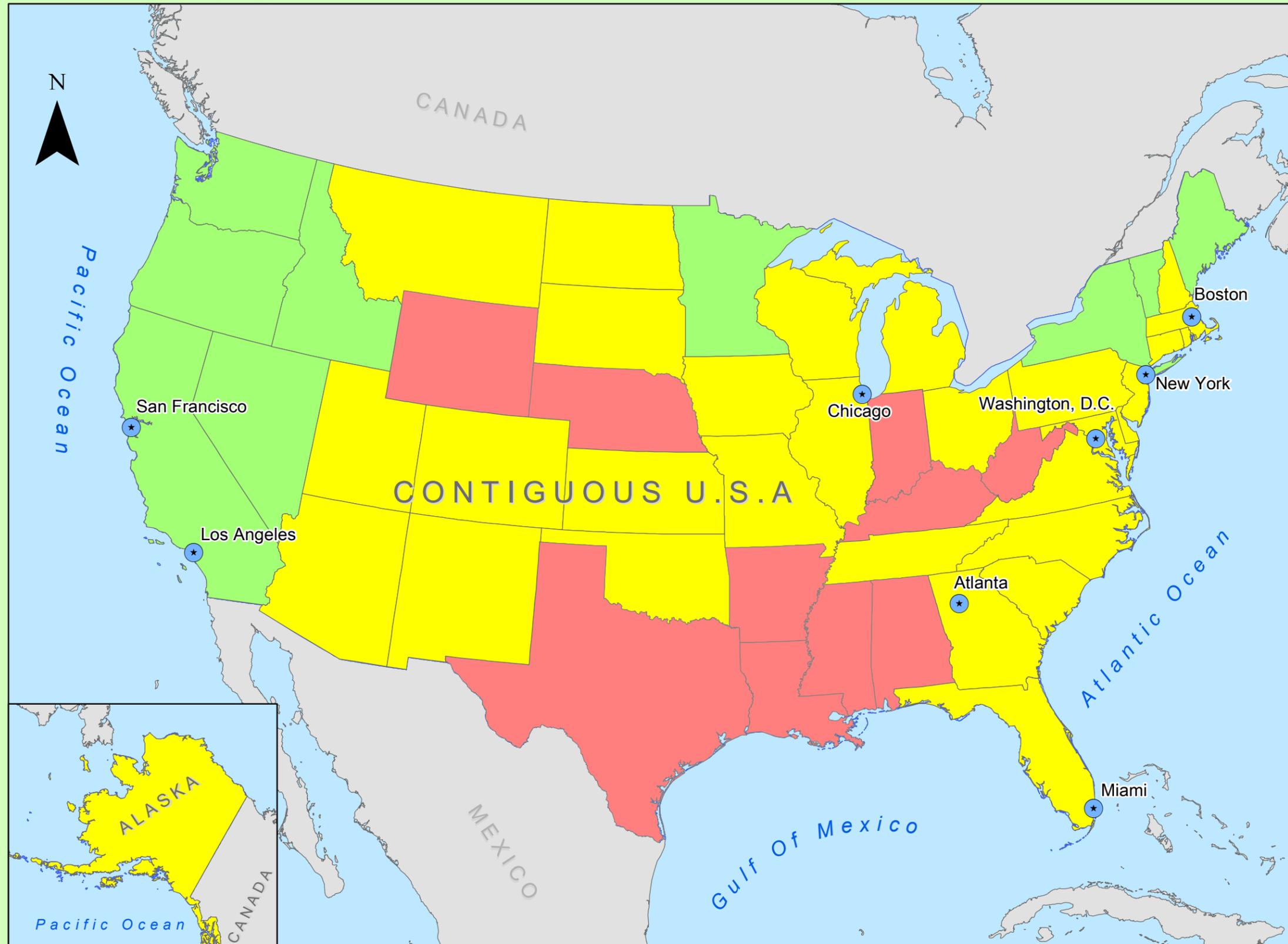


- Line of Control
- Disputed Area
- Country Boundaries
- State Boundaries
- Territory Ceded
- Pakistan controlled areas
- Indian Controlled Areas

Source: [naturalearthdata.com](http://naturalearthdata.com)

# Energy Sustainability Analysis

0 120 240 480 Miles



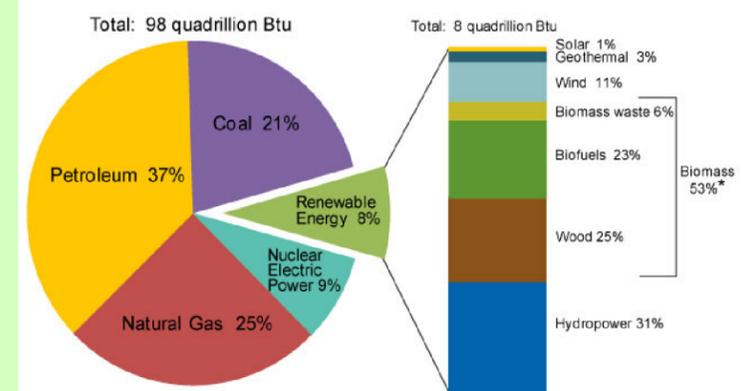
An energy crisis awaits us. As of last calculations only 8% of energy is currently supplied through renewable means. With depleting fossil fuels and climate change risks associated with their use, it is important to act environmentally sustainable.

This map aims to identify which states in the USA are energy sustainable currently and thus, for the future. By using both state energy consumption and renewable energy production information reported by the U.S. Energy Information Administration, a Energy Sustainability Index was created to categorize the sustainability of each state. Designed specifically for this map, the index takes into account whether states above/below the overall state consuming average and the overall renewable generating average. This formulates to give the index value, with the highest being the best. Readers can identify which states need to reapproach their energy consumption and renewable energy generation habits.

## Energy Sustainability Index

0 - Poor Energy Sustainability    1 - Moderate Energy Sustainability    2 - High Energy Sustainability

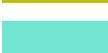
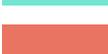
U.S. Energy Consumption by Energy Source, 2010

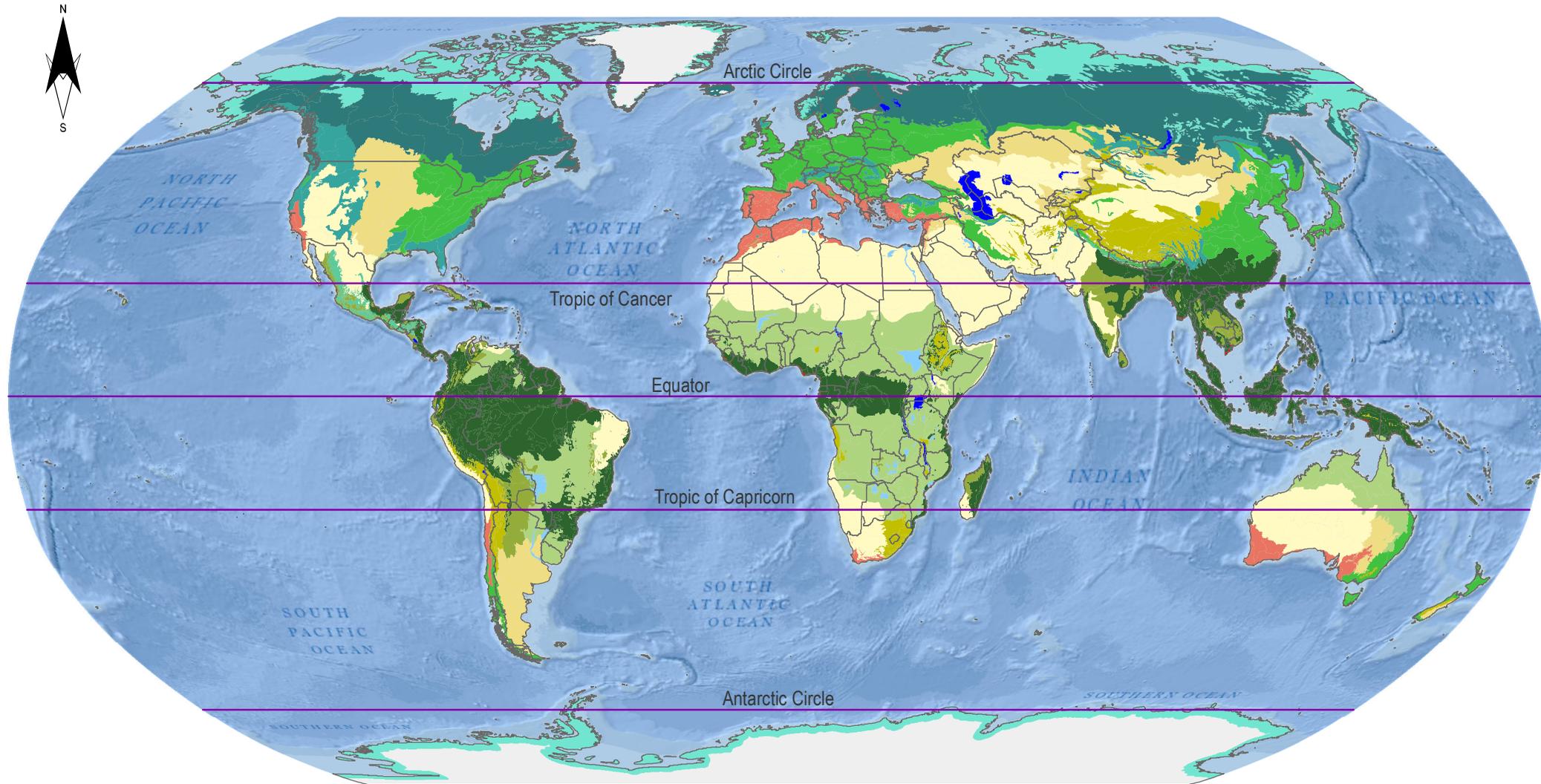


\* Note: Sum of biomass components does not equal 53% due to independent rounding.  
Source: U.S. Energy Information Administration, Monthly Energy Review, Table 10.1 (June 2011), preliminary 2010 data.

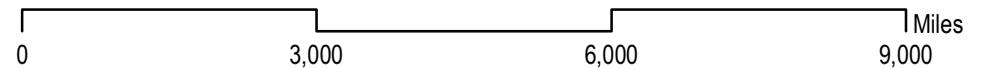
# World Ecoregions

## Legend

-  Tropical Moist Forests
-  Tropical Dry Forests
-  Tropical Coniferous Forests
-  Temperate Broadleaf Forests
-  Temperate Conifer Forests
-  Boreal Forests/Taiga
-  Tropical Grasslands/Savannas/Shrublands
-  Temperate Grasslands/Savannas/Shrublands
-  Flooded Grasslands/Savannas
-  Montane Grasslands/Shrublands
-  Tundra
-  Mediterranean Forests
-  Deserts Shrublands
-  Mangroves
-  Inland Water
-  Ice/Snow
-  Country Boundaries
-  Geographic Lines

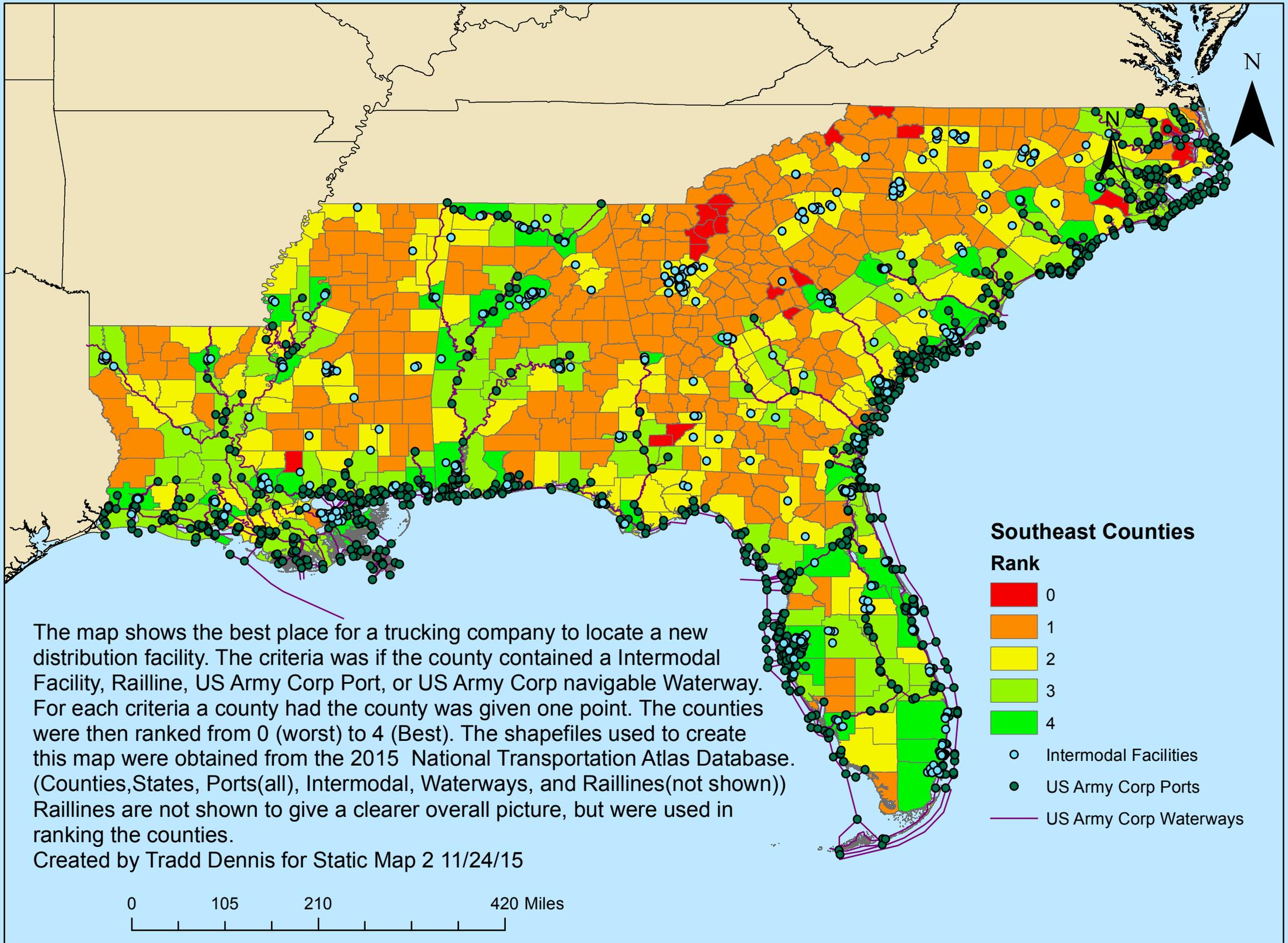


Data Sources:  
 Ecoregions: [http://maps.tnc.org/gis\\_data.html](http://maps.tnc.org/gis_data.html)  
 Country Boundaries: <http://geocommons.com/overlays/33578>  
 Geographic Lines: <http://www.naturearthdata.com/downloads/10m-physical-vectors/>  
 Oceans: <http://www.arcgis.com/home/item.html?id=1e126e7520f9466c9ca28b8f28b5e500>



Map By: Susan Carter 10/7/15

# Best County for a New Trucking Facility in the Southeast



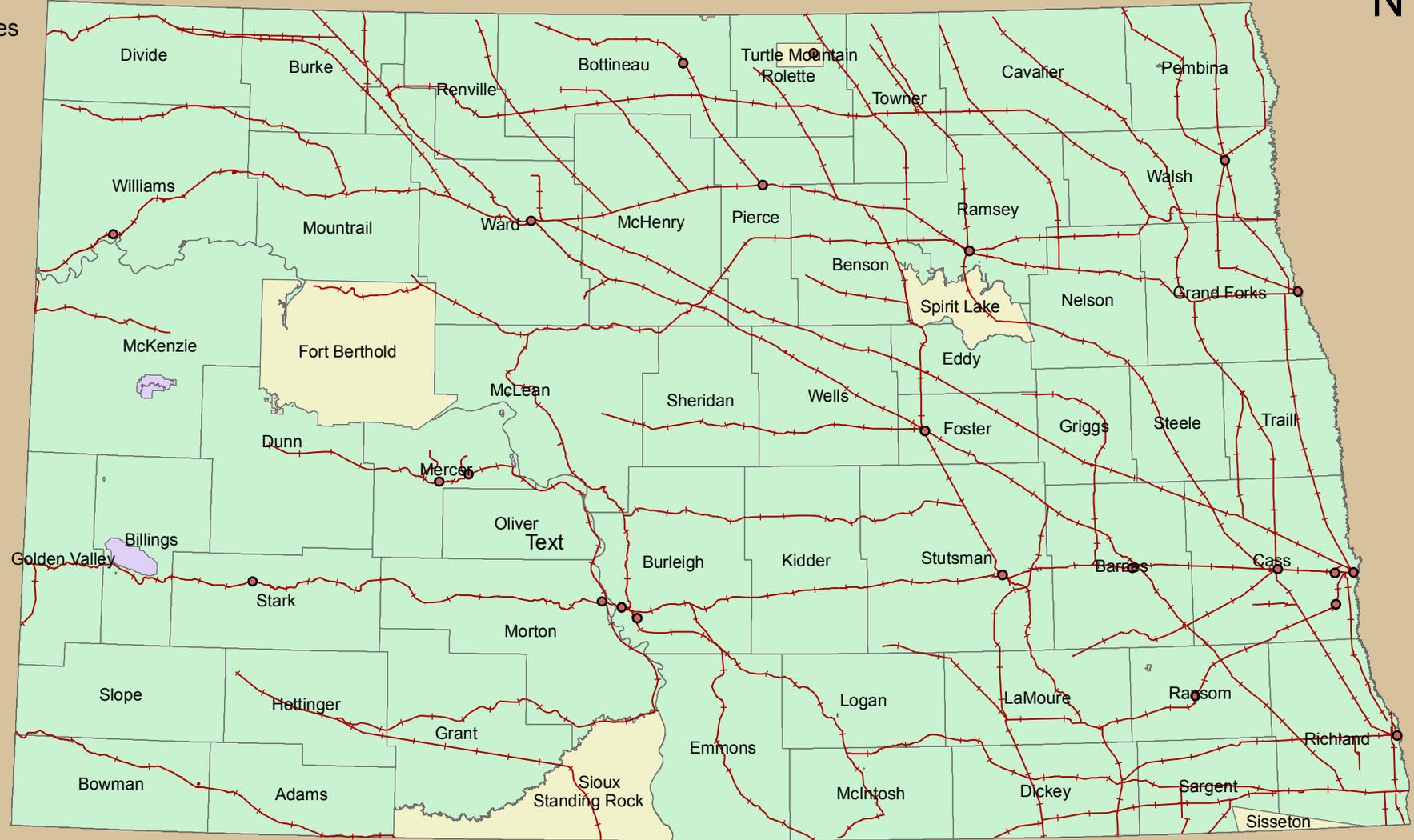
The map shows the best place for a trucking company to locate a new distribution facility. The criteria was if the county contained a Intermodal Facility, Railline, US Army Corp Port, or US Army Corp navigable Waterway. For each criteria a county had the county was given one point. The counties were then ranked from 0 (worst) to 4 (Best). The shapefiles used to create this map were obtained from the 2015 National Transportation Atlas Database. (Counties,States, Ports(all), Intermodal, Waterways, and Raillines(not shown)) Raillines are not shown to give a clearer overall picture, but were used in ranking the counties.

Created by Tradd Dennis for Static Map 2 11/24/15

# Land Distributions

- ND\_Large\_Cities
- ND\_State\_Parks
- ND\_National\_Parks
- ND\_Railroads
- ND\_Tribal\_Lands
- ND\_Counties

## North Dakota Land Distribution

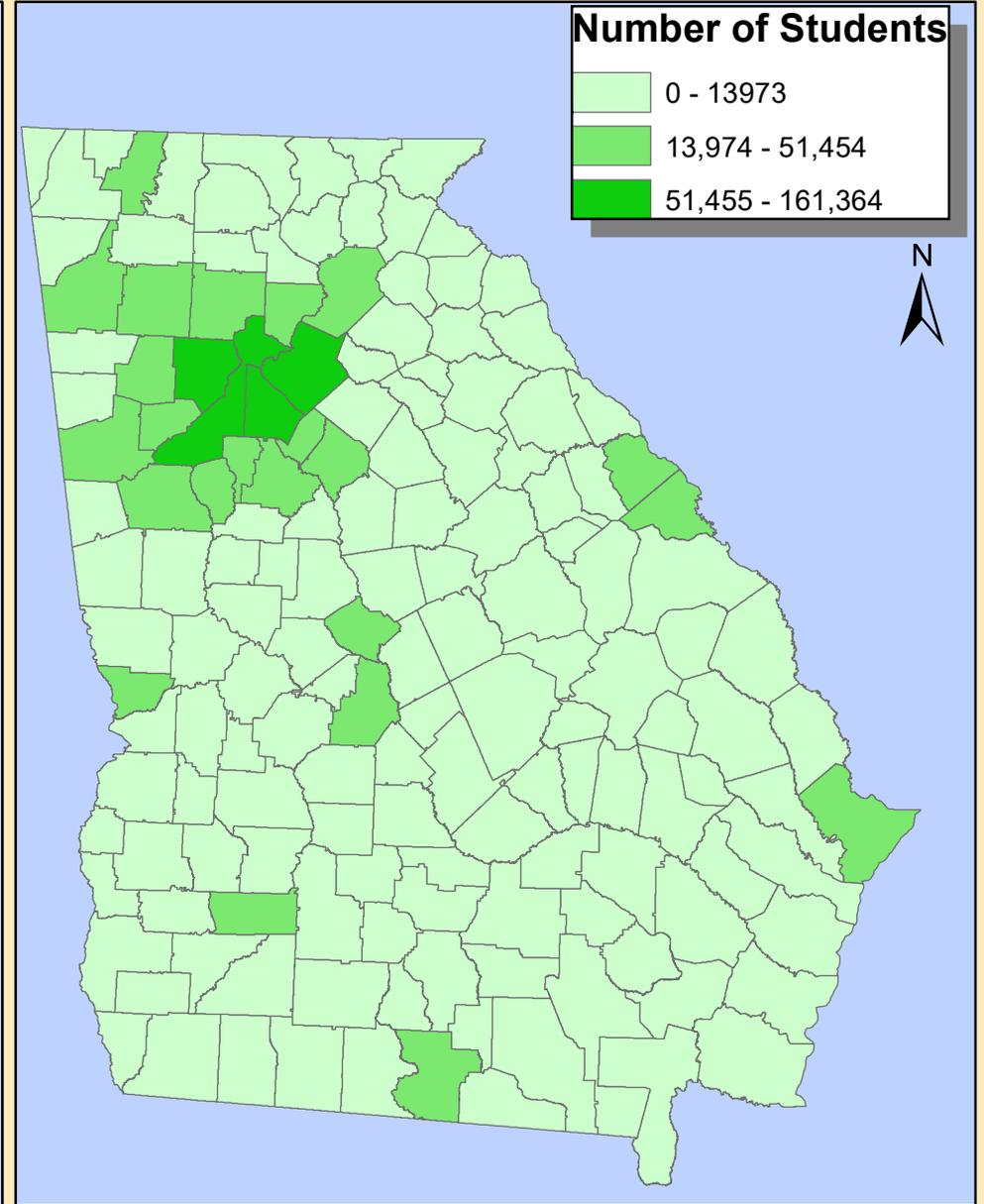
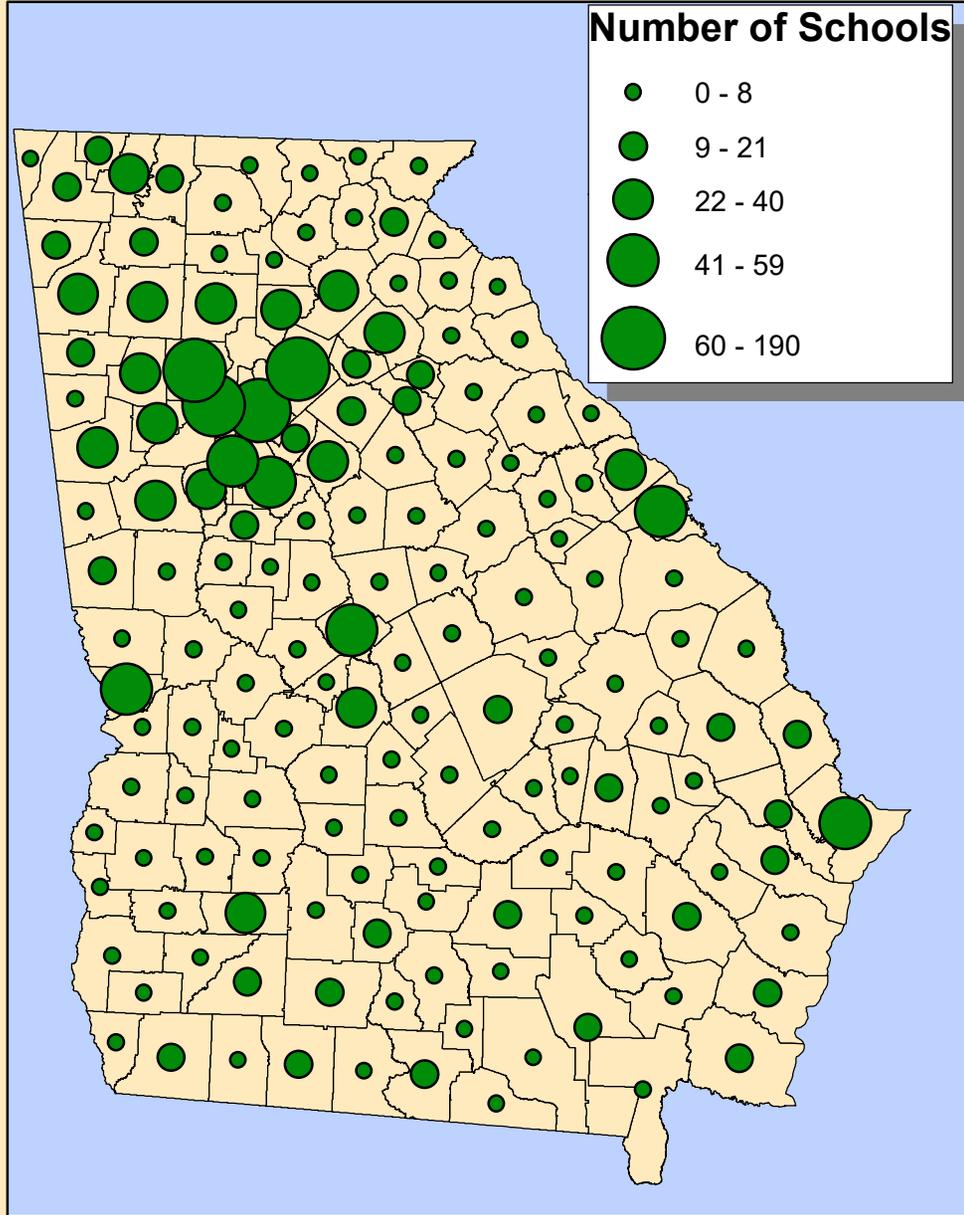


This map shows the land distribution of North Dakota. The different types of land use distribution show are the cities with a 2010 population over 2000 people, State Parks, National Parks, Railroads, Tribal Lands, and the counties of North Dakota. All Data was obtained from the NDGIS HUB. An example data page is given here <https://apps.nd.gov/hubdataportal/srv/en/main.home>.

Created by: Tradd Dennis  
Date : October 7, 2015  
Data Source: North Dakota GIS Hub



# Number of Schools and Students in Georgia



0 45 90 180 Miles

The map on the left is the total number of schools in each county.  
The map on the right is the total number of students enrolled in each county.

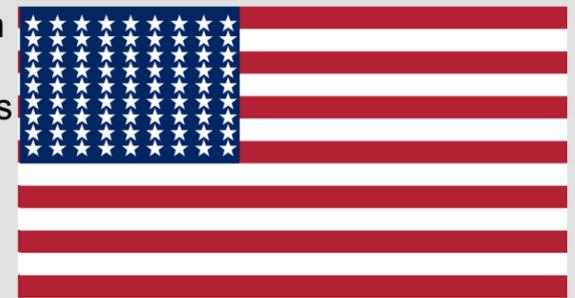
*Created by Blake Studstill*

The layer information for the county and the school was obtained from the Georgia GIS Clearinghouse.

# WOMEN IN POLITICS

## Assessing the Number of Women Elected to the Senate and the Office of State Governor

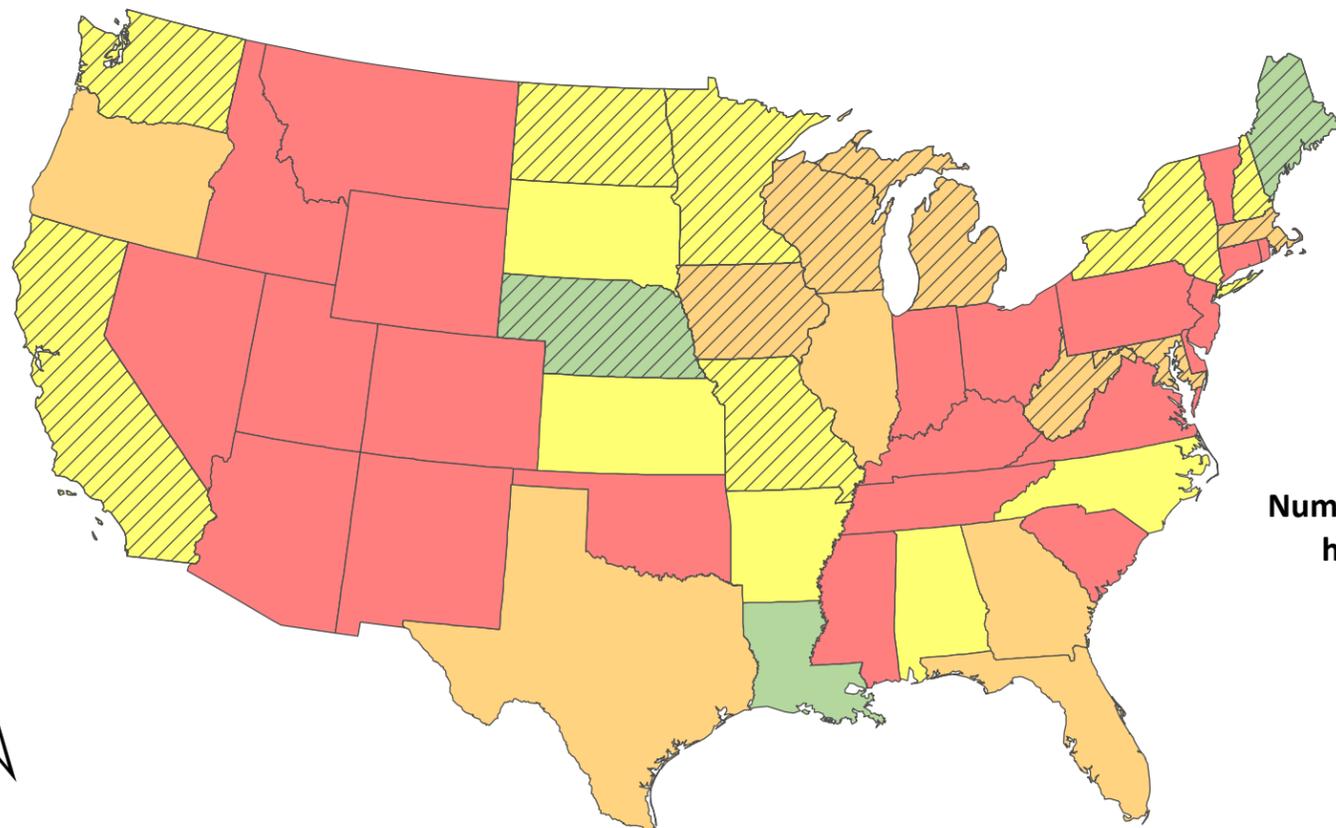
The realm of politics and government throughout much of the world has been vastly dominated by men up till present times. However, recent history has seen a number of women entering the world of politics and holding high ranks of office. This maps presents a detailed view of the total number of women (by state) who have been elected to the Senate or to the Office of Governor throughout the history of the Unites States. The years that each map covers (beginning with the year that the first woman was elected to the designated office) are shown below each map. Each map also presents which states currently have women holding office as Governor or in the Senate. A final numeric comparison within each map shows of the total number of U.S. governors and senators in comparison to the number of women governors and senators currently in the office.



**Resources:**  
 Continental USA: ArcGIS Online  
 Women in Senate Data: [www.senate.gov](http://www.senate.gov)  
 Current Senators Data: [www.senate.gov](http://www.senate.gov)  
 Women Governors Data: [www.nga.org](http://www.nga.org)  
 Current Women Governors Data: [www.nga.org](http://www.nga.org)

### WOMEN IN THE SENATE

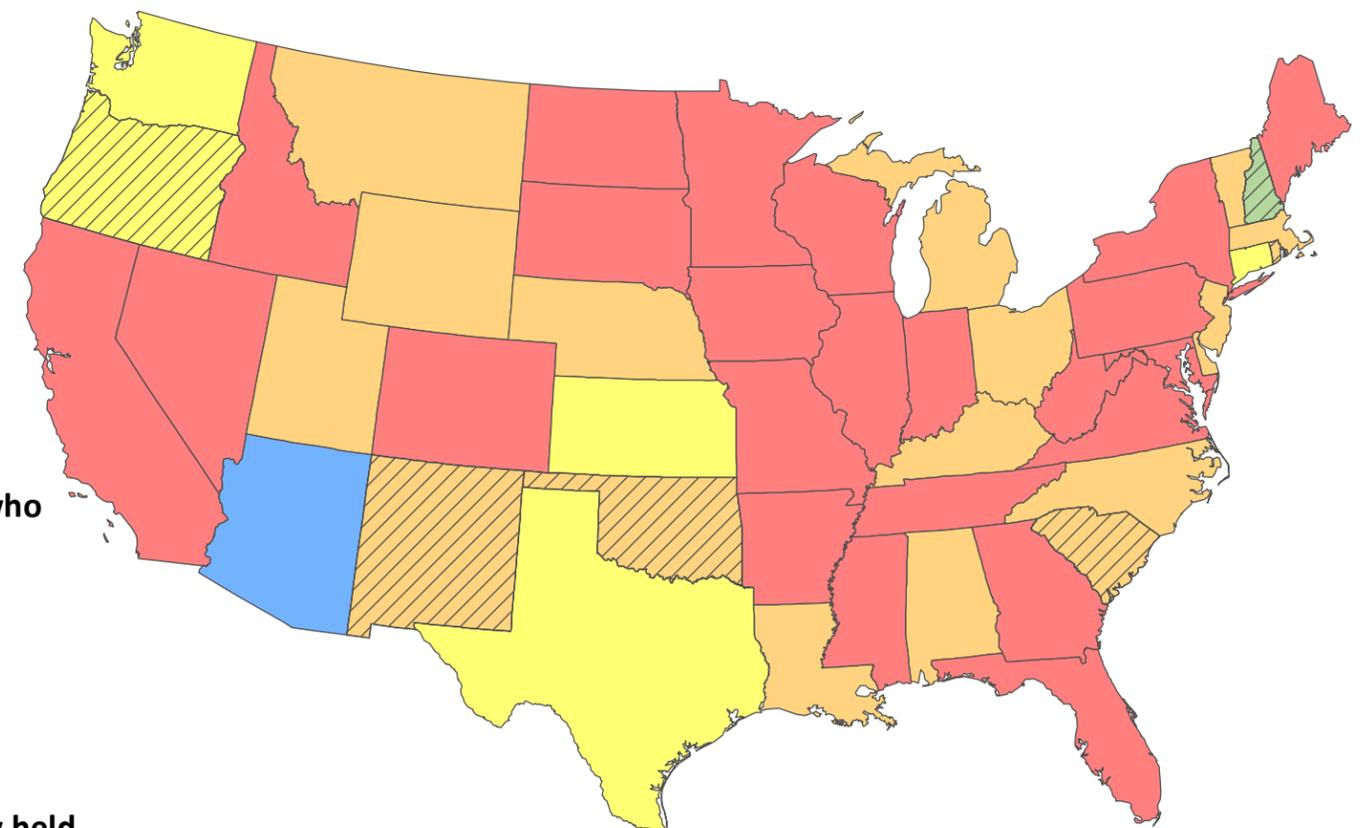
Number of Senators (2015)\*: 96  
 Women currently in Office (2015)\*: 18



(1917-2015)

### WOMEN IN OFFICE OF GOVERNOR

Number of Governors (2015)\*: 48  
 Women currently in Office (2015)\*: 6



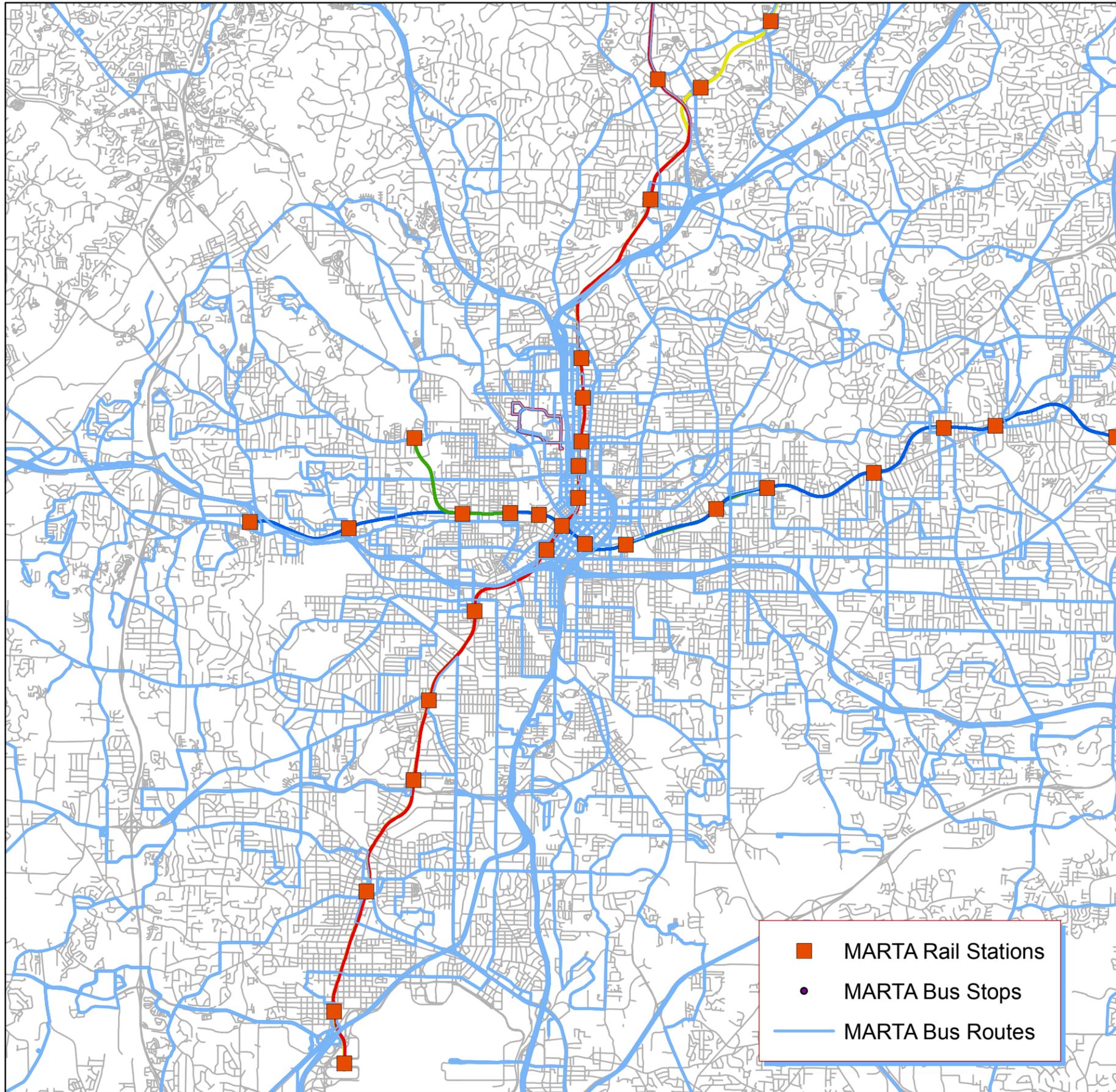
(1925-2015)

**Number of women who have held office.**

- 0
- 1
- 2
- 3
- 4

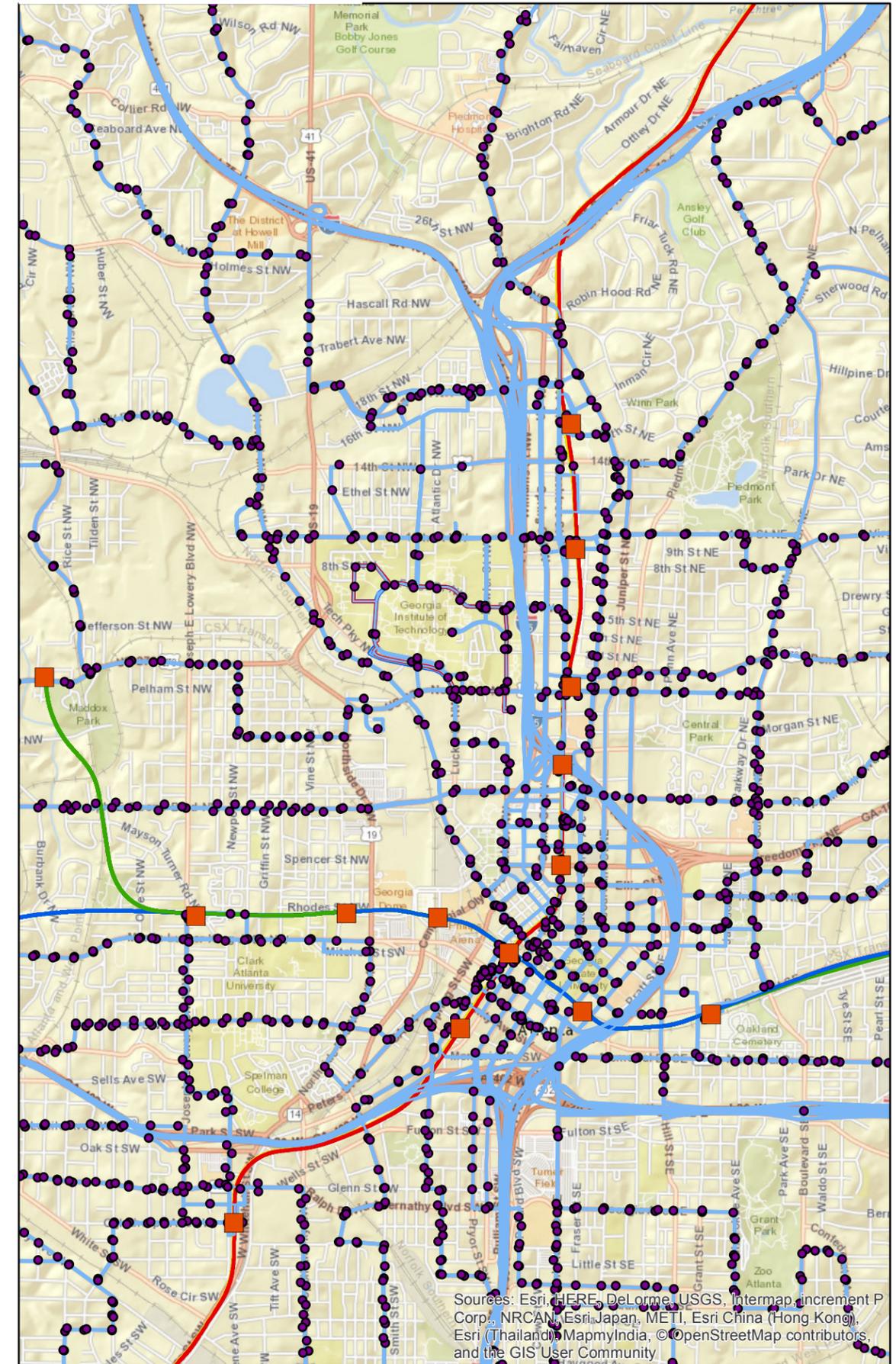
**Office currently held by a woman.**

# Could you take MARTA to where you're going?



# marta

0 0.25 0.5 1 1.5 2 Miles



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), MapmyIndia, ©OpenStreetMap contributors, and the GIS User Community

0 1 2 4 6 8 Miles

Find out at [itsmarta.com](http://itsmarta.com) !!

Map by Rohit Ammanamanchi

# Municipalities in Brazil

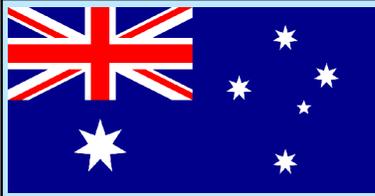
Map By Kishan Patel

11/18/2015



Have you ever wondered how many municipalities there are in each Brazilian state? Most of you are probably thinking... "No, I'm not even sure what that means". Well look no further. This map will show you how many municipalities there are in each Brazilian state. Just in case you are not sure what the Brazilian states are, there is a zoom-in-view map showing each Brazilian state. For those of you wondering what a municipality is, it is a city or town that has corporate status and is capable of self-government. This map uses different sized and colored circles to show the amount of municipalities in Brazilian states: the bigger the circle, the more municipalities.

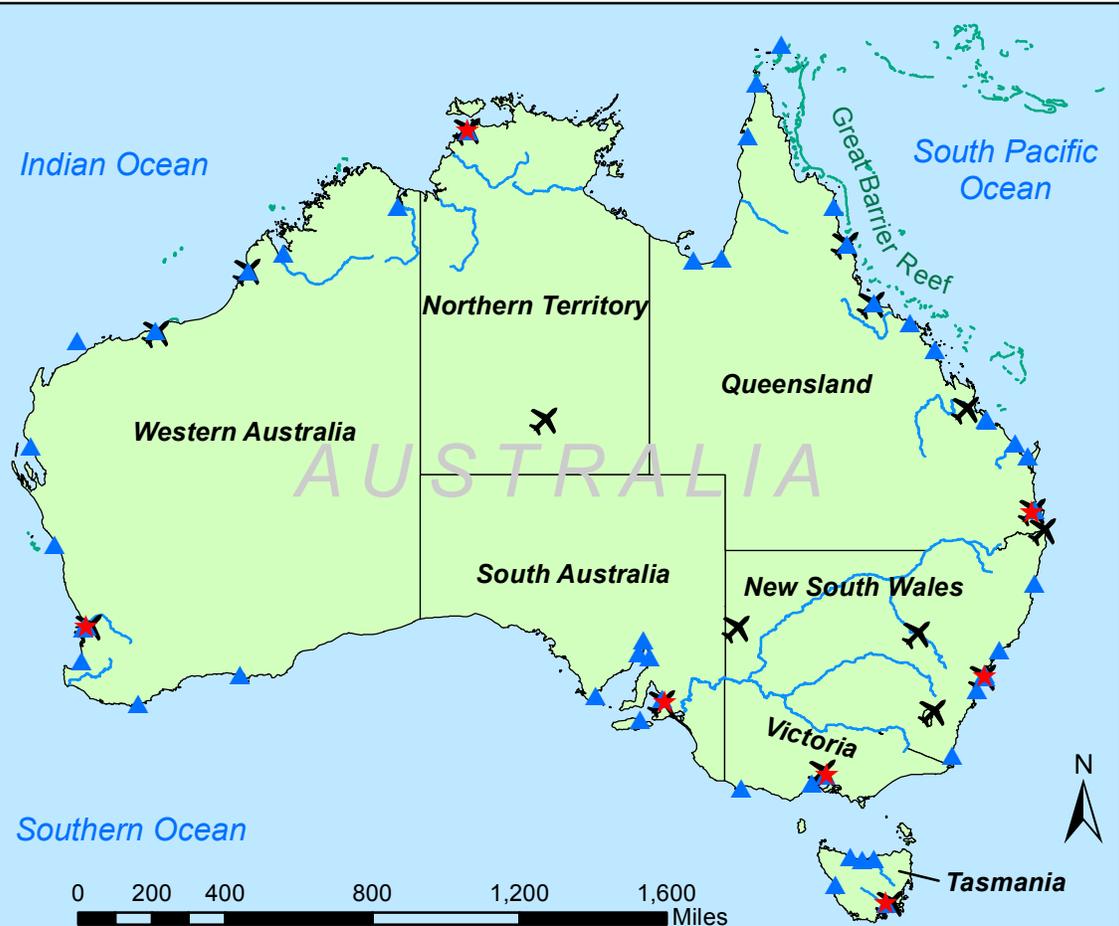
# Australia



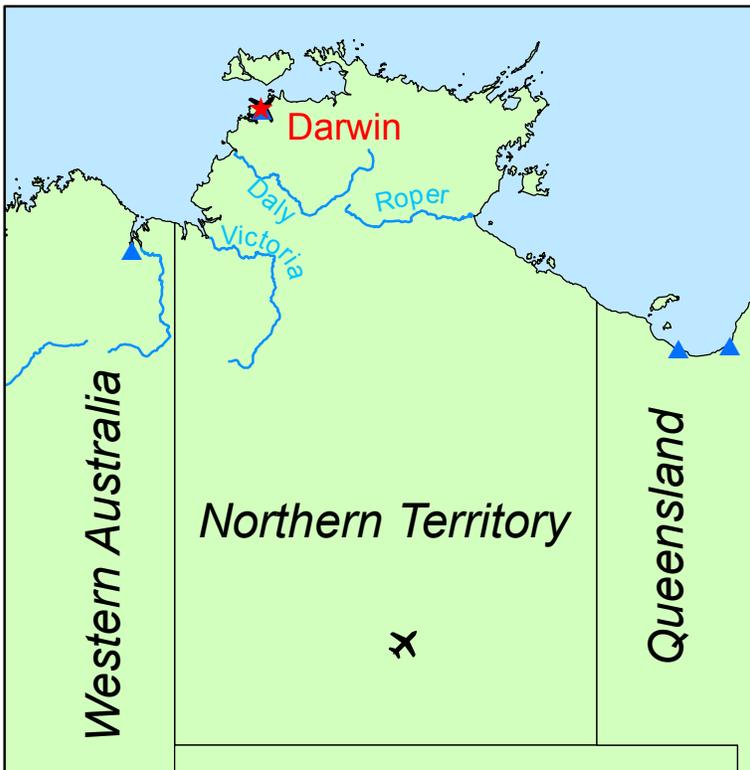
From: CIA Factbook  
Australia was claimed as a British colony in 1829, and became a commonwealth in 1901. They remain a commonwealth today.

## Legend

- ★ State Capitals
- ▲ Ports
- ✈ Airports
- Coral Reef
- Rivers
- Australian States

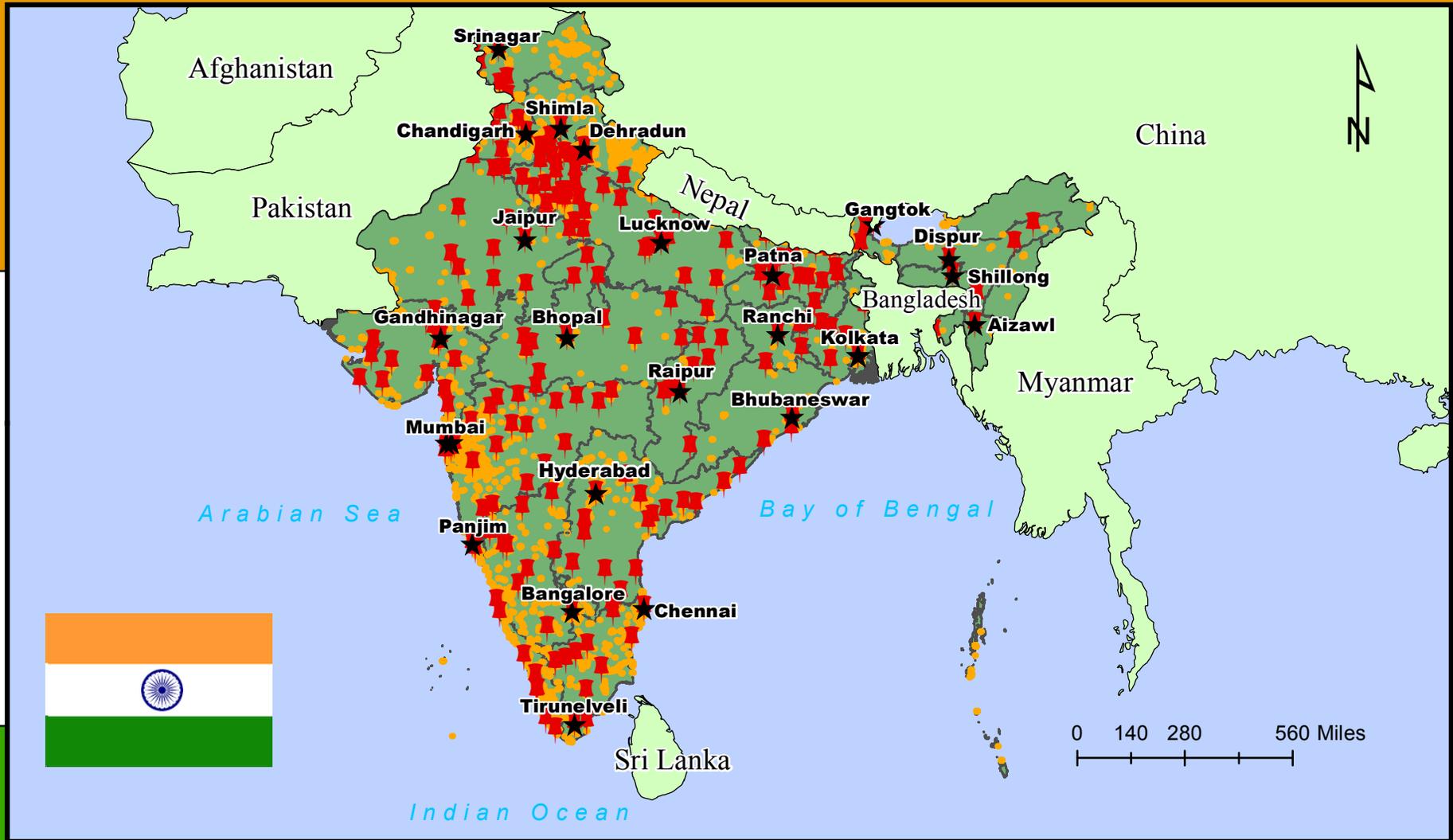


Site: <http://www.naturalearthdata.com/downloads/>



Map by Harrison Aiken

# India Cities and Significant Buildings



Data Sources: <http://www.mapcruzin.com/free-india-country-city-place-gis-shapefiles.htm>

- Surrounding Country
- ★ State Capitals
- Major Cities
- Significant Buildings
- States

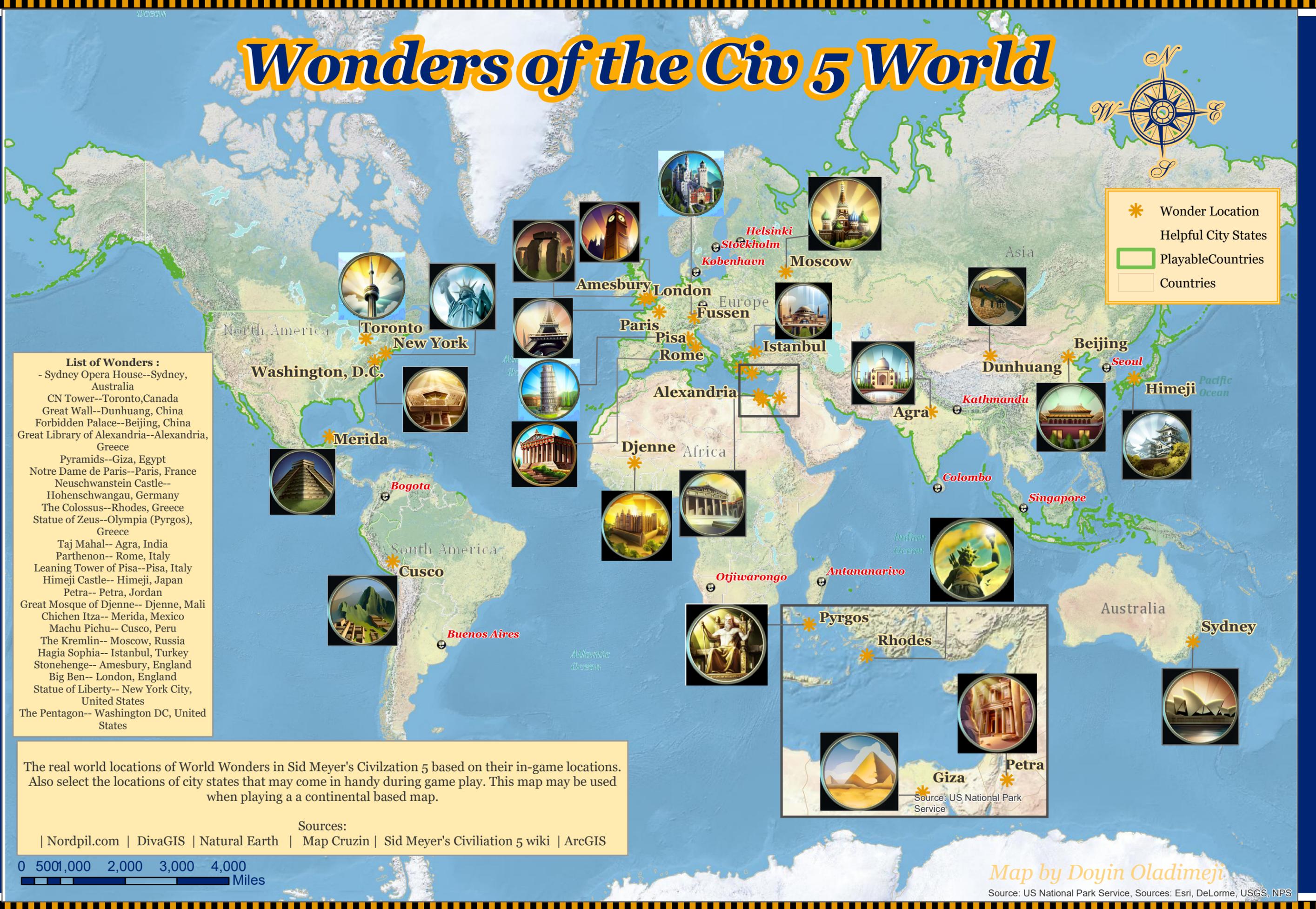
India is the second most populated country in the world, falling second to its neighbor China. There are numerous cities in India that are extremely overpopulated, besides state capitals. There are 221 major cities in India, which excludes the capitals, towns and villages. In addition to all of the major cities in India, there are many significant buildings all throughout India. These significant buildings include banks, schools, train stations, courthouses, police stations, and temples. Most of these buildings are located near the state capitals, which makes sense because these are the more populated areas.

# Wonders of the Civ 5 World



\* Wonder Location  
  Helpful City States  
  Playable Countries  
  Countries

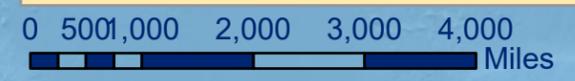
- List of Wonders :**
- Sydney Opera House--Sydney, Australia
  - CN Tower--Toronto, Canada
  - Great Wall--Dunhuang, China
  - Forbidden Palace--Beijing, China
  - Great Library of Alexandria--Alexandria, Greece
  - Pyramids--Giza, Egypt
  - Notre Dame de Paris--Paris, France
  - Neuschwanstein Castle--Hohenschwangau, Germany
  - The Colossus--Rhodes, Greece
  - Statue of Zeus--Olympia (Pyrgos), Greece
  - Taj Mahal-- Agra, India
  - Parthenon-- Rome, Italy
  - Leaning Tower of Pisa--Pisa, Italy
  - Himeji Castle-- Himeji, Japan
  - Petra-- Petra, Jordan
  - Great Mosque of Djenne-- Djenne, Mali
  - Chichen Itza-- Merida, Mexico
  - Machu Pichu-- Cusco, Peru
  - The Kremlin-- Moscow, Russia
  - Hagia Sophia-- Istanbul, Turkey
  - Stonehenge-- Amesbury, England
  - Big Ben-- London, England
  - Statue of Liberty-- New York City, United States
  - The Pentagon-- Washington DC, United States



The real world locations of World Wonders in Sid Meyer's Civilization 5 based on their in-game locations. Also select the locations of city states that may come in handy during game play. This map may be used when playing a continental based map.

Sources:

| Nordpil.com | DivaGIS | Natural Earth | Map Cruzin | Sid Meyer's Civilization 5 wiki | ArcGIS



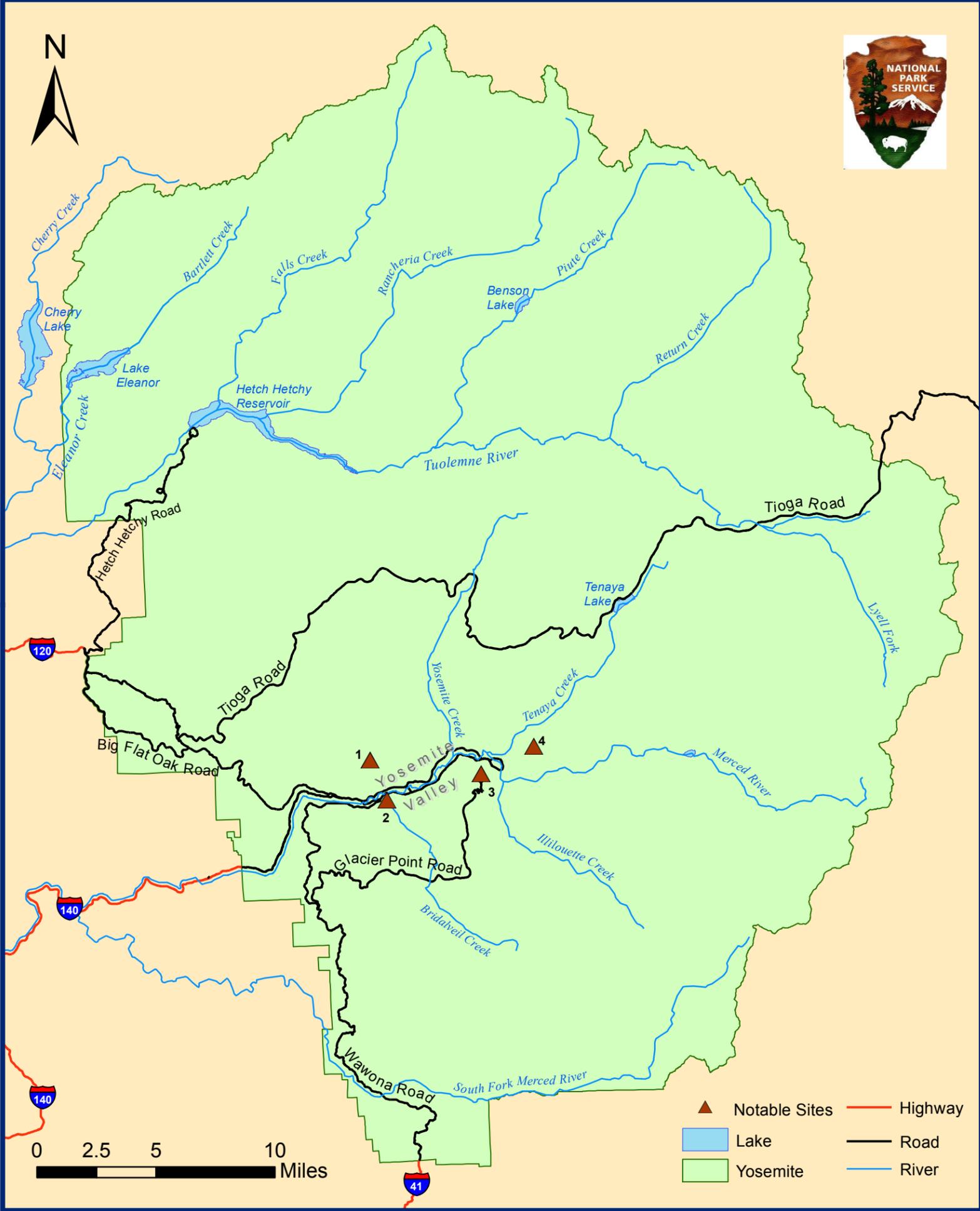
Map by Doyin Oladimeji

Source: US National Park Service, Sources: Esri, DeLorme, USGS, NPS

# YOSEMITE NATIONAL PARK



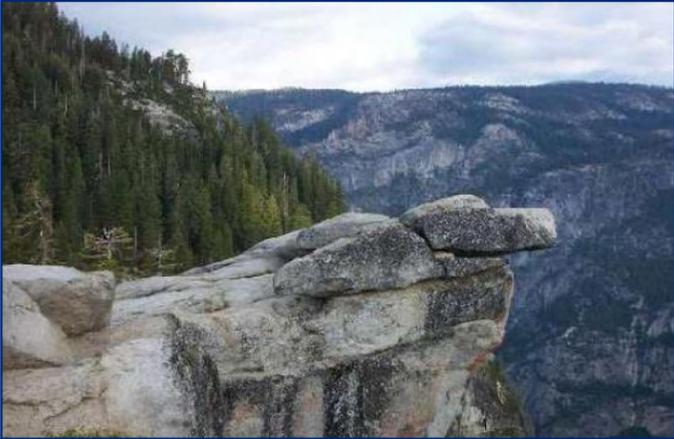
Yosemite National Park is located in the central eastern portion of the state of California. Yosemite was one of the first areas to come under protection of the federal government from development, paving the way for the future establishment of the national park system. Approximately 95% of the park is designated wilderness, with the majority of visitors spending their time in the Yosemite Valley. Formed by glaciers, the valley boasts gorgeous granite rock formations and waterfalls. The map to the right shows an overview of the entire park, including roads, rivers and lakes. Also noted on the map are four of the more notable sites in the Yosemite Valley, with pictures of each shown below for reference.



(1) El Capitan



(2) Bridalveil Falls



(3) Glacier Point

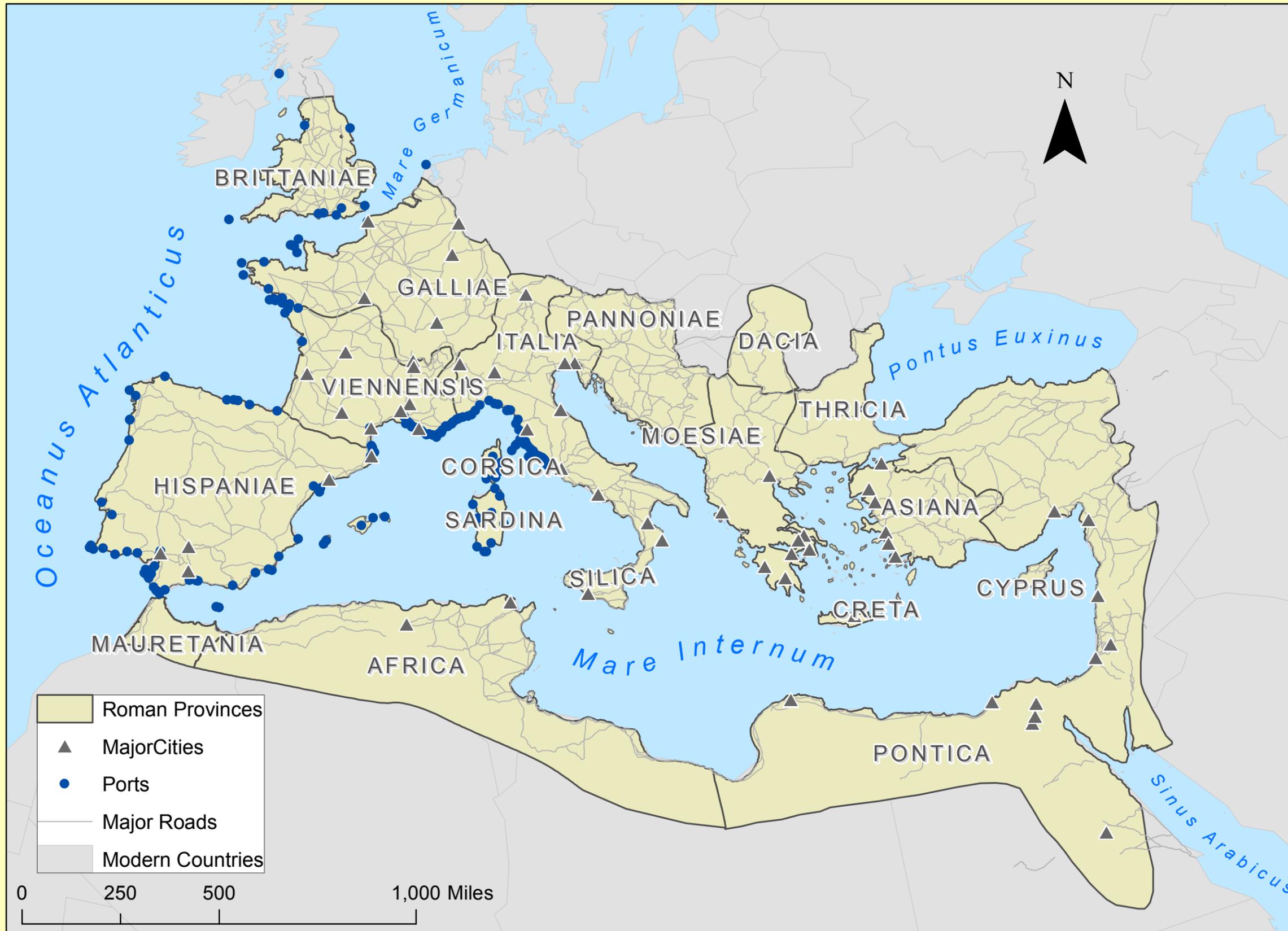


(4) Half Dome

Map by Emily Flood  
 October 7th, 2015  
 Base Map: ArcGIS Online (USA States (Generalized))  
 River data: ArcGIS Online (USA Detailed Streams)  
 Attractions, Lakes & Roads data: National Park Service, U.S. Department of the Interior - IRMA Portal

# The Height of the Roman Empire

The Roman Empire reached the shown extent under Emperor Trajan in 117 AD, and maintained this area until approximately 350 AD



The Roman Empire was among the most powerful economic, cultural, political and military forces in the world of its time. It was the largest empire of the classical antiquity period, and one of the largest empires in world history. At its height under Trajan, it covered 5 million square kilometers and held sway over some 70 million people, at that time 21% of the world's entire population. The longevity and vast extent of the Empire ensured the lasting influence of Latin and Greek language, culture, religion, inventions, architecture, philosophy, law and forms of government on the Empire's descendants.

From Wikipedia:Roman Empire



# Hawaiian Islands Tsunami Evacuation Information



## Welcome to Beautiful Hawaii!



A tsunami, although unlikely, is always a possibility on a low lying island chain such as Hawaii. In the case of a tsunami, the major islands are lined with evacuation shelters for your safety. This map portrays the locations of the 'at risk' areas & evacuation shelters, as well as major roads and hotels for your convenience. Please contact the Pacific Tsunami Warning Center for additional information. On behalf of the Honolulu Police Department and the Governor of Hawaii, welcome to Oahu and thank you for visiting beautiful Hawaii!

**Legend**

- ▲ Major City
- Evacuation Shelter
- Hotel
- Major Roads
- Tsunami Evacuation Zone
- State Boundaries



Pacific Ocean

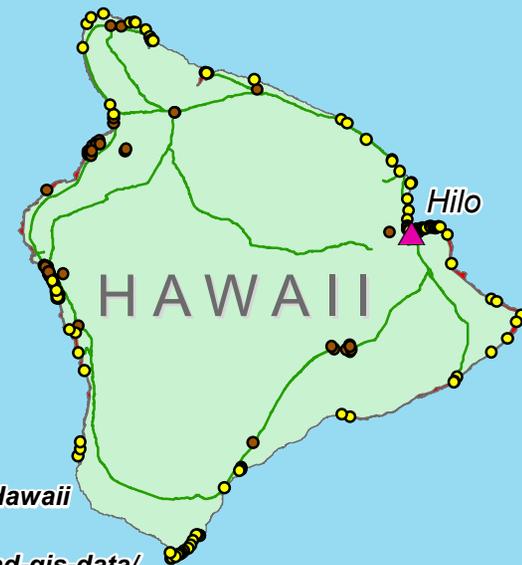


Image Source:  
[https://en.wikipedia.org/wiki/Flag\\_of\\_Hawaii](https://en.wikipedia.org/wiki/Flag_of_Hawaii)  
 Data Source:  
<http://planning.hawaii.gov/gis/download-gis-data/>  
<http://www.mapcruzin.com/free-wireless-gis-maps/cities-towns-shapefile.htm>  
 Map By: David Soll, 10/7/15

# United States Capitals

The United States of America is the fourth largest country in the world and the third most populous nation with almost 320 million people. The national capital is Washington D.C. which is home to almost 6 million people. Each of the 50 states also has its own capital. In 33 of the 50 states, the capital is not the most populous city in the state. Atlanta, Georgia is the most populated state capital with 5.2 million people. Montpelier, Vermont is the least populated state capital with only 7,885 people.

**Legend**

- Rivers
- Lakes
- State
- Country
- ★ National Capital
- ★ State Capital



Map by Rachael Weber  
Data from geocommons and thematicmapping.org



# Spanish Teams in the 2015-2016 UEFA Champions League



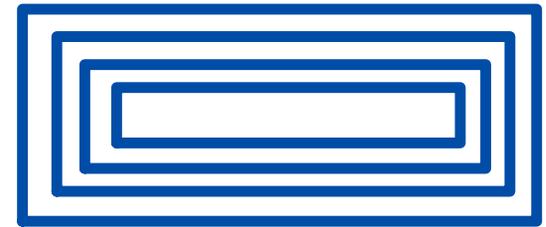
Spain is the first country in the history of the UEFA Champions League to have five teams competing. Since Barcelona already qualified for the group stage (as the champions of the 2014–15 La Liga), the berth in the group stage is given to the Europa League title holders, Sevilla





# Rivers & Lakes of South and Central America

This map shows the rivers and lakes in South America and Central America.



### Legend

- Lakes
- Rivers
- Oceans
- Countries

Data Sources:  
<http://www.naturearthdata.com/downloads/10m-cultural-vectors/>  
<http://www.naturearthdata.com/downloads/10m-physical-vectors/>



# Scenic Highways, Vista Points and National Parks in California



- ★ Vista Point
- ▲ City
- Interstates
- Scenic Highways
- Lakes
- National Park

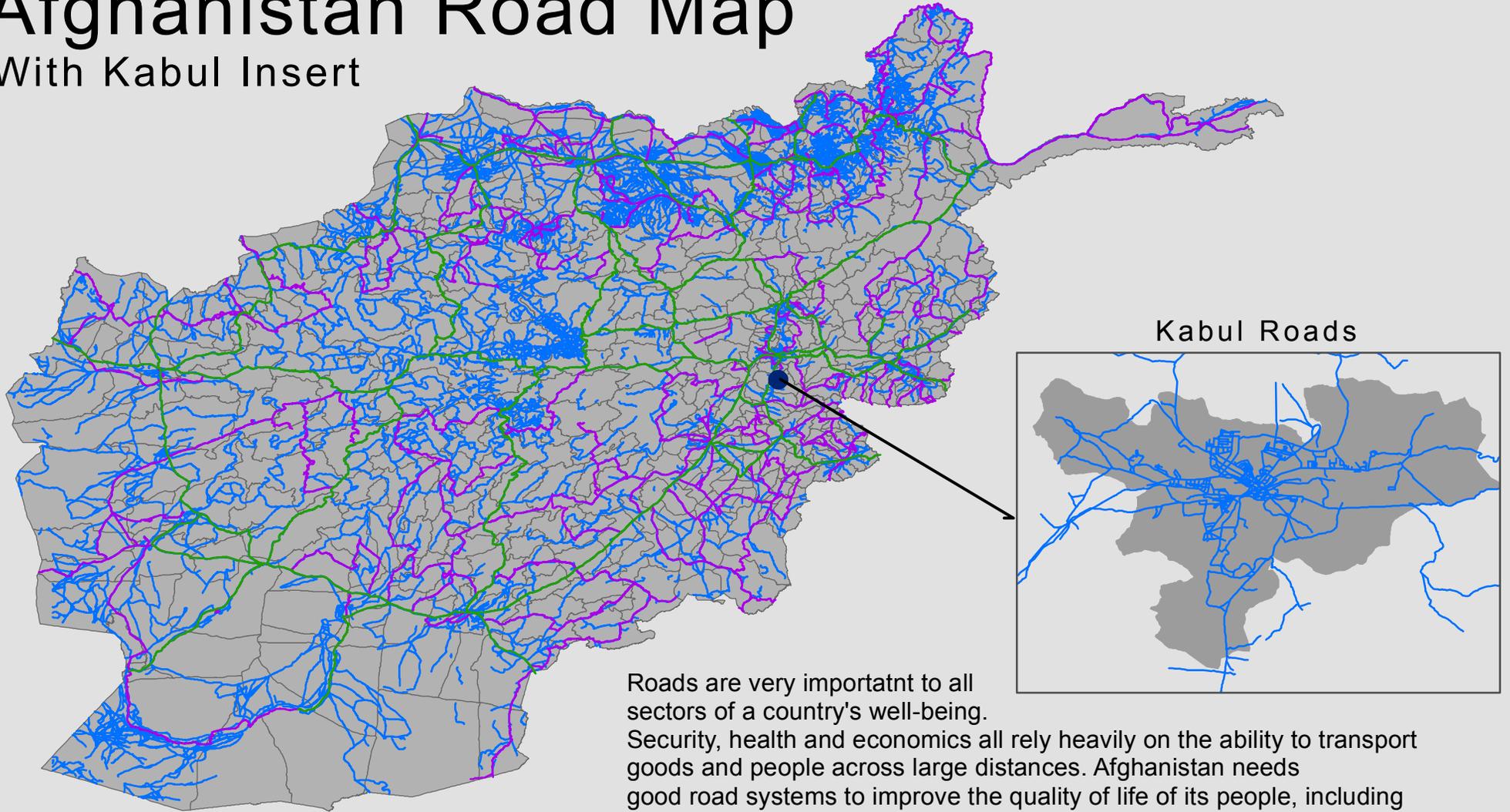
Notes:  
 The State Scenic Highway System includes a list of highways that are either eligible for designation as scenic highways or have been officially designated. The Vista Points are mapped by Caltrans Division of Maintenance to provide locations where motorists can safely view scenery or park and relax. Vista points may have facilities including walkways, interpretive displays, railings, benches, interpretive information, trash receptacles, monuments and other pedestrian facilities that are accessible to all persons.



Data Source:  
 California Department of Transportation -- Caltrans GIS Data  
 California Geoport

# Afghanistan Road Map

With Kabul Insert



Roads are very important to all sectors of a country's well-being. Security, health and economics all rely heavily on the ability to transport goods and people across large distances. Afghanistan needs good road systems to improve the quality of life of its people, including their individual and collective security and health. Without roads, rural areas become even more remote and unable to access basic needs of life, like water, food and healthcare.

Flag of Afghanistan



0 100 200 400 Miles

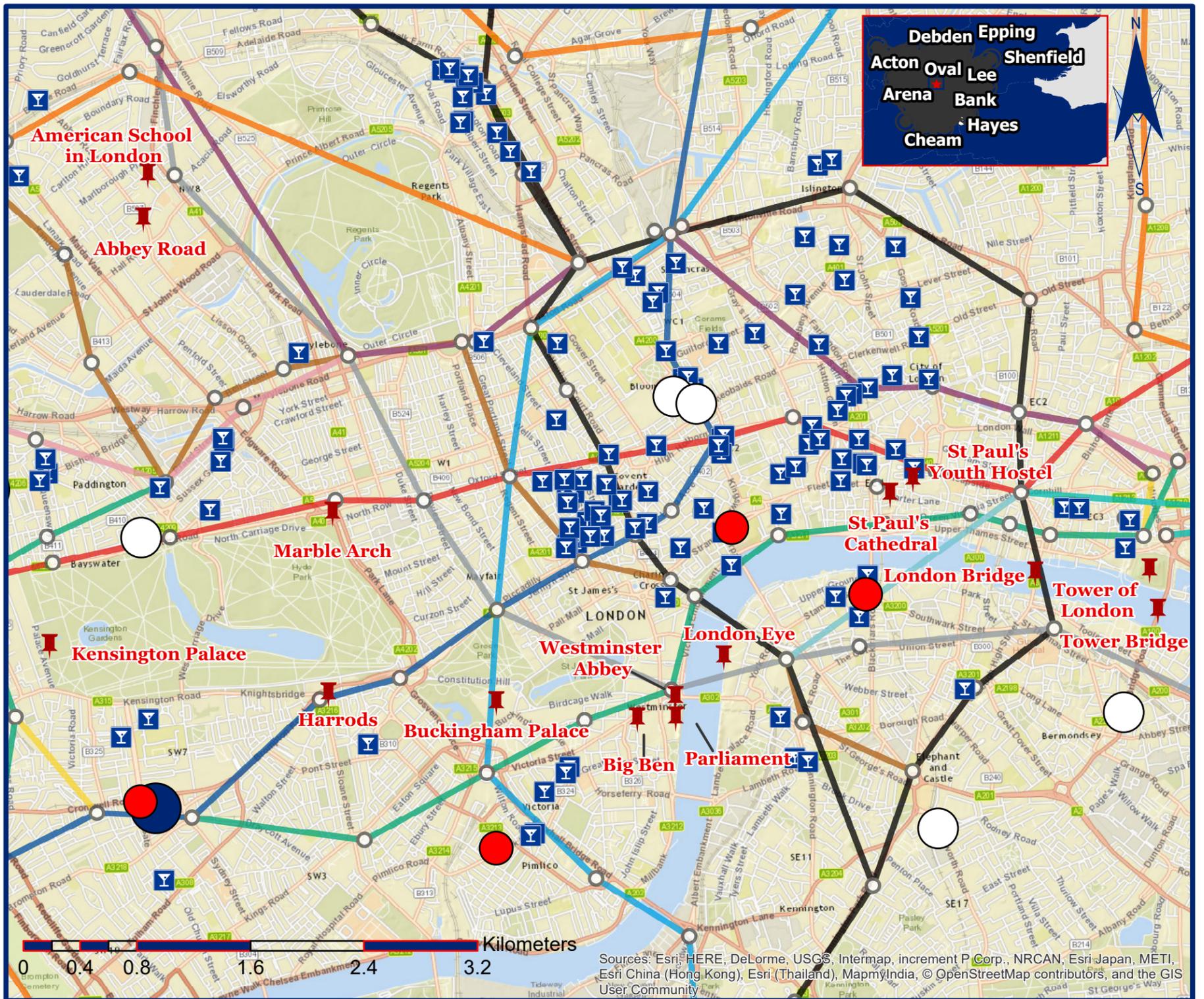
All Country Data Sources from Princeton's Empirical Studies of Conflict (ESOC)  
Kabul Data from Humanitarian Response  
Map made by Caitlin Huber



## Legend

- Districts
- All Roads
- Class 1&2 Roads
- Class 3&4 Roads

# Drink to London's History!



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

## Hotels

### Hotel Ranking

- 0
- 1 - 4
- 5 - 6
- 7 - 8

Points of Interest

Pubs

Stations

## Lines

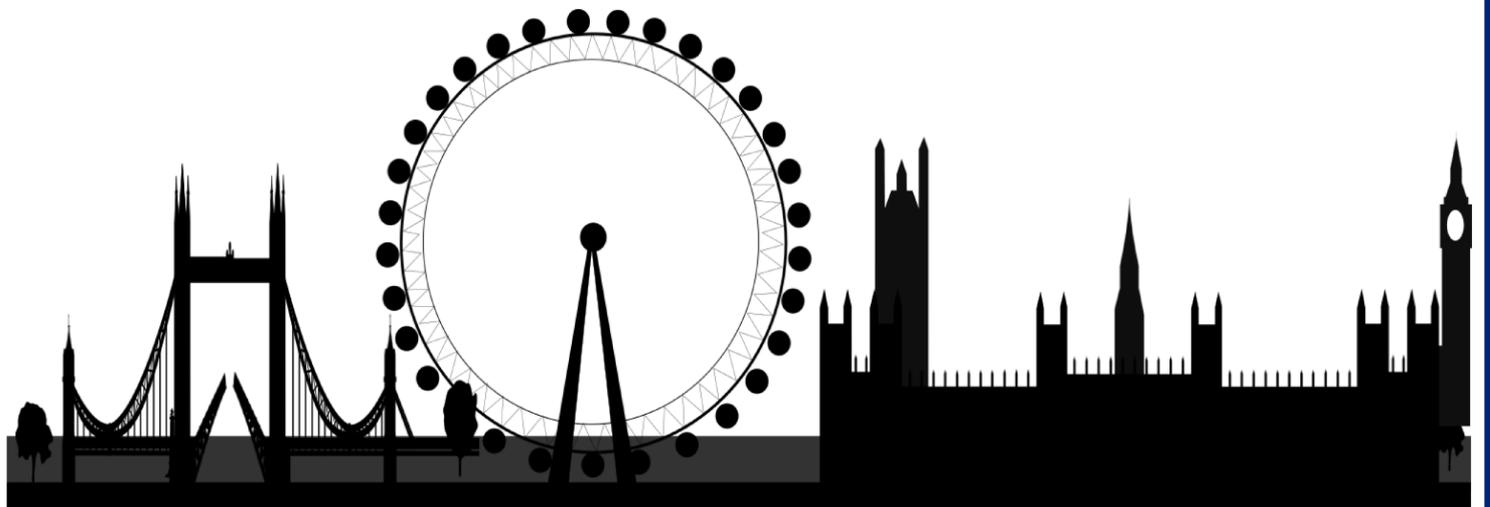
### Name

- Bakerloo
- Central
- Circle
- District
- DLR
- Hammersmith and City
- Jubilee
- Metropolitan
- Northern
- Overground
- Piccadilly
- Tramlink
- Victoria
- Waterloo and City

*For the sight-seeing enthusiastic, who is also very enthusiastic about alcohol, this map is a guide to London's most popular sights and the pubs nearby them! Visit Parliament and then grab a pint next door. Walk across Abbey Road, right into a bar for a craft beer. Wherever you are, a drink will never be far! And at the end of the day go towards the nearest London Underground station, to hotels specially picked for convenience to sights and pubs, get a good nights sleep, and do it all again tomorrow!*

This map shows 300 of at least 1000 pubs in the City of London, the most popular Points of Interests for visitors and hotels to stay in nearby. The Hotels were picked based on access to metro routes, then ranked according to proximity to a POI, number of pubs in 0.5 km radius, and lastly, user ratings. Most of the area shown is decently walkable, but the The London Underground rail lines, and stations are included for convenience. Please drink responsibly.

*Map by Doyin Oladimeji*



# New Jersey's Active Number of Contaminated Sites by County in 2012



## Legend

▲ Groundwater Monitoring Sites

## Number of Contaminated Sites

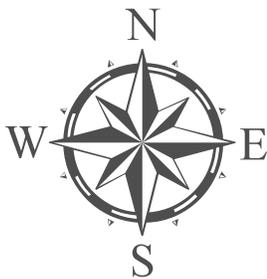
☢ 117 - 345

☢ 346 - 725

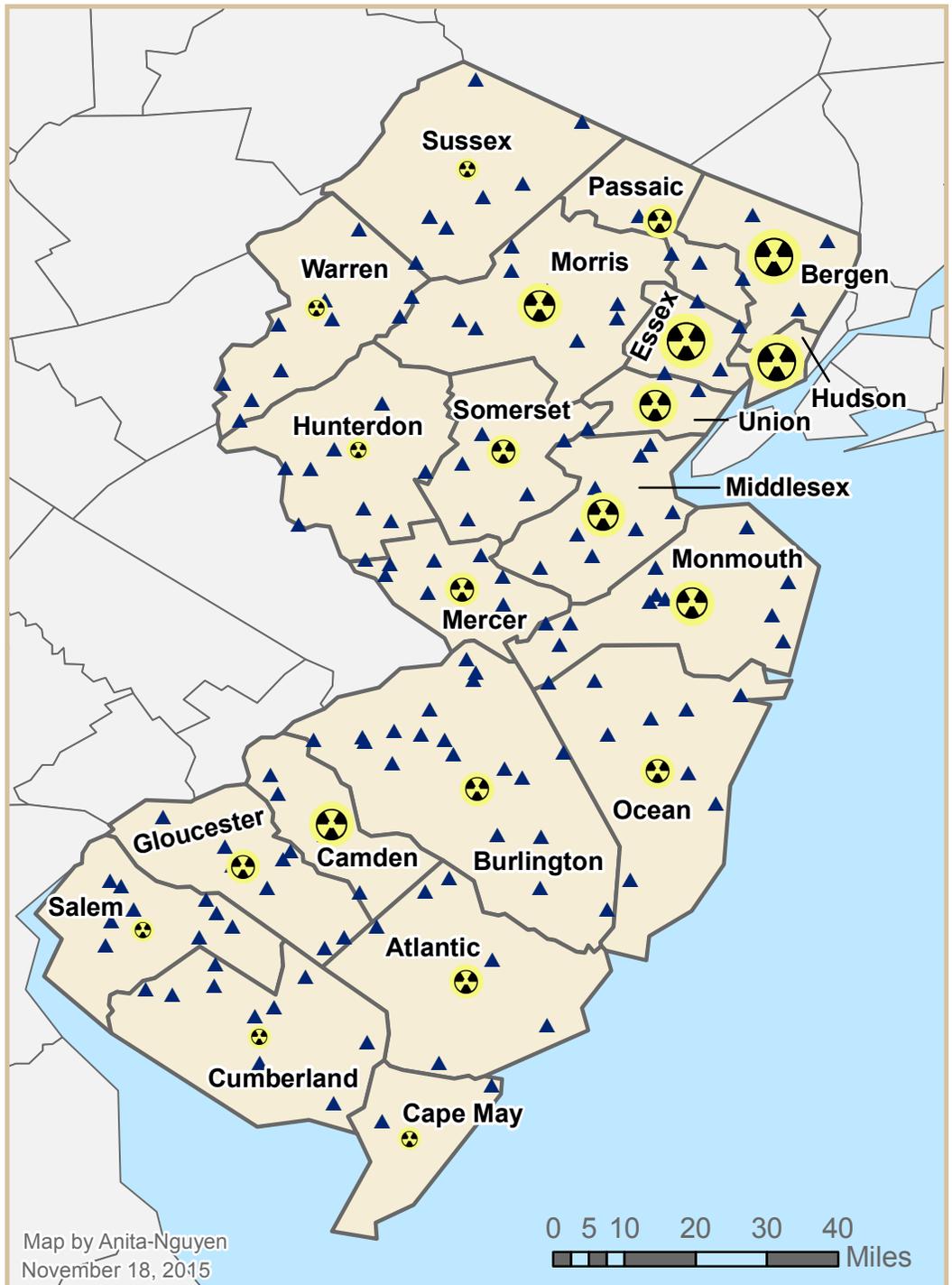
☢ 726 - 1200

☢ 1201 - 2000

□ County



Source: New Jersey Department of Environmental Protection; MGIS  
USA County Boundary Data



Map by Anita-Nguyen  
November 18, 2015

In 2012, the state of New Jersey contained more than 20,000 active contaminated chemical sites, including several the most Superfund sites in the nation. North Jersey, in particular, contains the greatest incidences of hazardous waste contamination, with three counties—Bergen, Hudson and Passaic—each containing up to 2,000 reported incidents of pollution.

This map is a part of an ongoing effort to track the pollution and its impact on New Jersey's soil and groundwater. Sites and properties where contamination of soil or groundwater has been confirmed are at levels equal to or greater than federal standards.

# Where Should I Move?



In January I will be graduating from Georgia Tech and starting a job at Keck & Wood, Inc. in Duluth. As such, I will likely be moving to Gwinnett County in order to live closer to work. This map analyzes potential apartment complexes to determine the best fits for my future housing. Factors analyzed included the rating of the apartments as reported by Google Reviews, proximity to work, parks, transit, and food and characteristics of the census tract such as percent vacancies and age demographics. Each of 60 apartment complexes were given an overall score out of 10. The highest scoring complex was found to be The Arbors at Breckinridge Apartment Homes with a score of 8.33. All complexes with a rating of higher than 7 will be considered further.

- Transit Stops
- Gwinnett Greenspace
- Keck & Wood, Inc.

**Apartment Complexes**

**Score**

- 1-4
- 4-7
- 7-10

Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

# Improvised Explosive Devices in Afghanistan

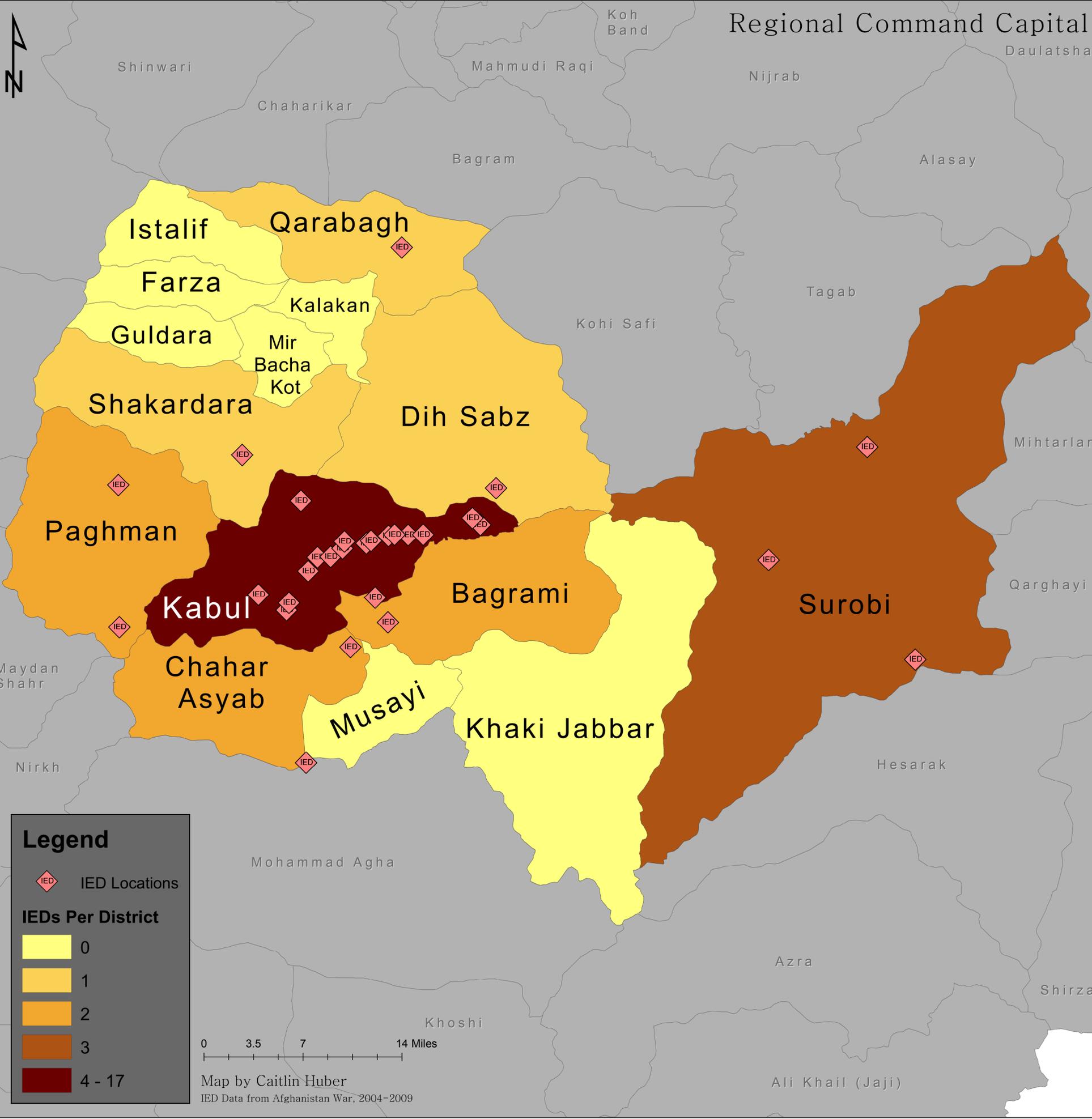
2004-2009

What is a Improvised Explosive Device?

An improvised explosive device (IED) is a bomb constructed and deployed in ways other than in conventional military action. It may be constructed of conventional military explosives, such as an artillery round, attached to a detonating mechanism. IEDs are commonly used as roadside bombs.

IEDs are generally seen in heavy terrorist actions or in unconventional warfare by guerrillas or commando forces in a theater of operations. They are used in Afghanistan by insurgent groups, and have caused over 66% of coalition casualties in the 2001-present Afghanistan War.

Wikipedia

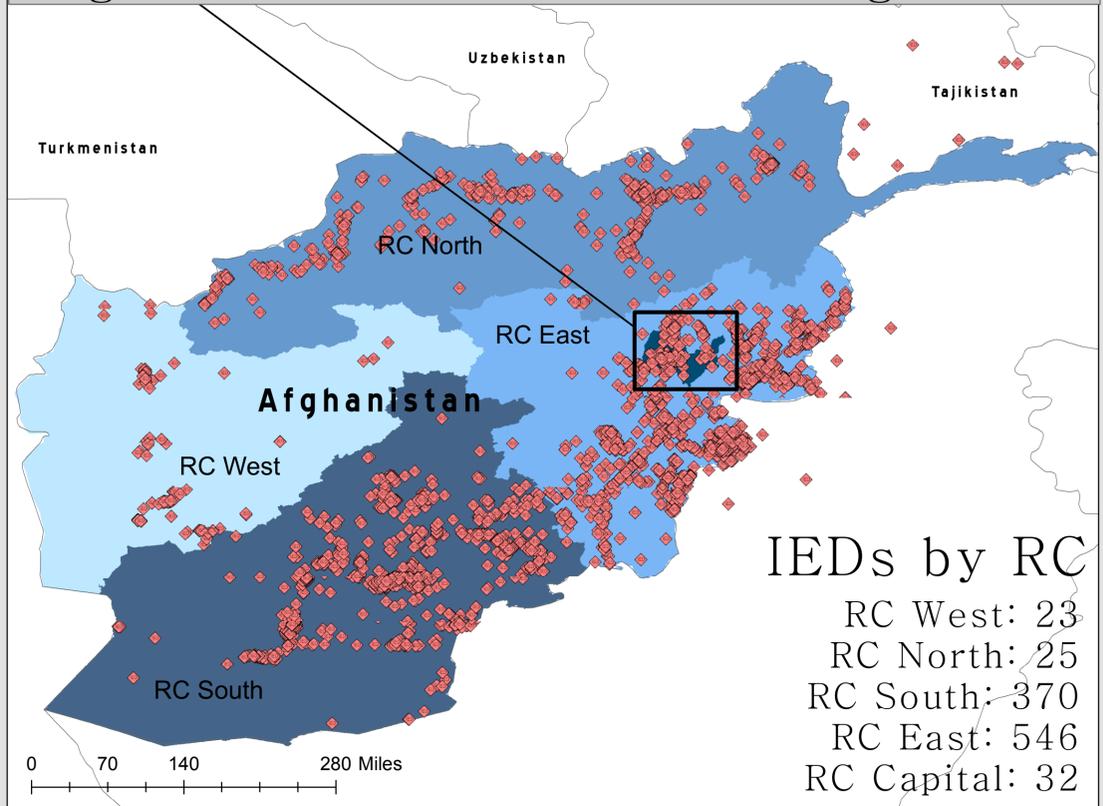


**Legend**

- IED Locations
- IEDs Per District
- 0
- 1
- 2
- 3
- 4 - 17

0 3.5 7 14 Miles  
Map by Caitlin Huber  
IED Data from Afghanistan War, 2004-2009

## Regional Command (RC) Districts in Afghanistan



**IEDs by RC**

RC West:	23
RC North:	25
RC South:	370
RC East:	546
RC Capital:	32

# Florida's Critical Wildlife Areas Impacted by Harmful Algal Blooms



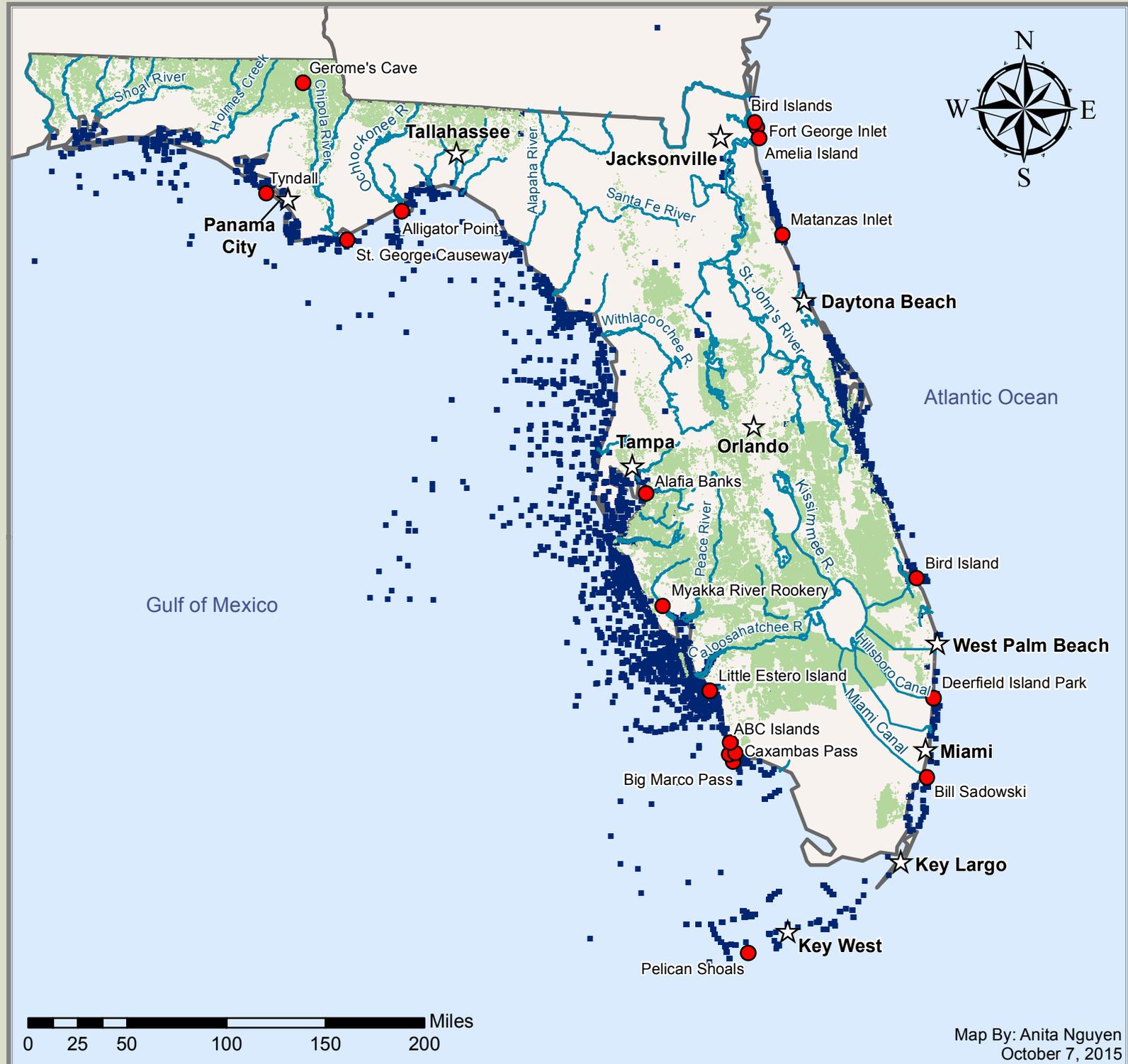
## Legend

- ☆ Cities
- Critical Wildlife Areas
- Harmful Algal Bloom Events
- Major Rivers
- Farmland
- State Boundaries

Harmful algal blooms (HABs) are defined as the proliferation of toxic algal species that negatively impact the health of wildlife and humans. Critical Wildlife Areas (CWA) inhabited by sensitive and endangered species are especially prone to the adverse effects of HABs. Observations of HAB outbreaks are being reported with increasing frequency along U.S. coastlines, causing growing concerns nationwide.

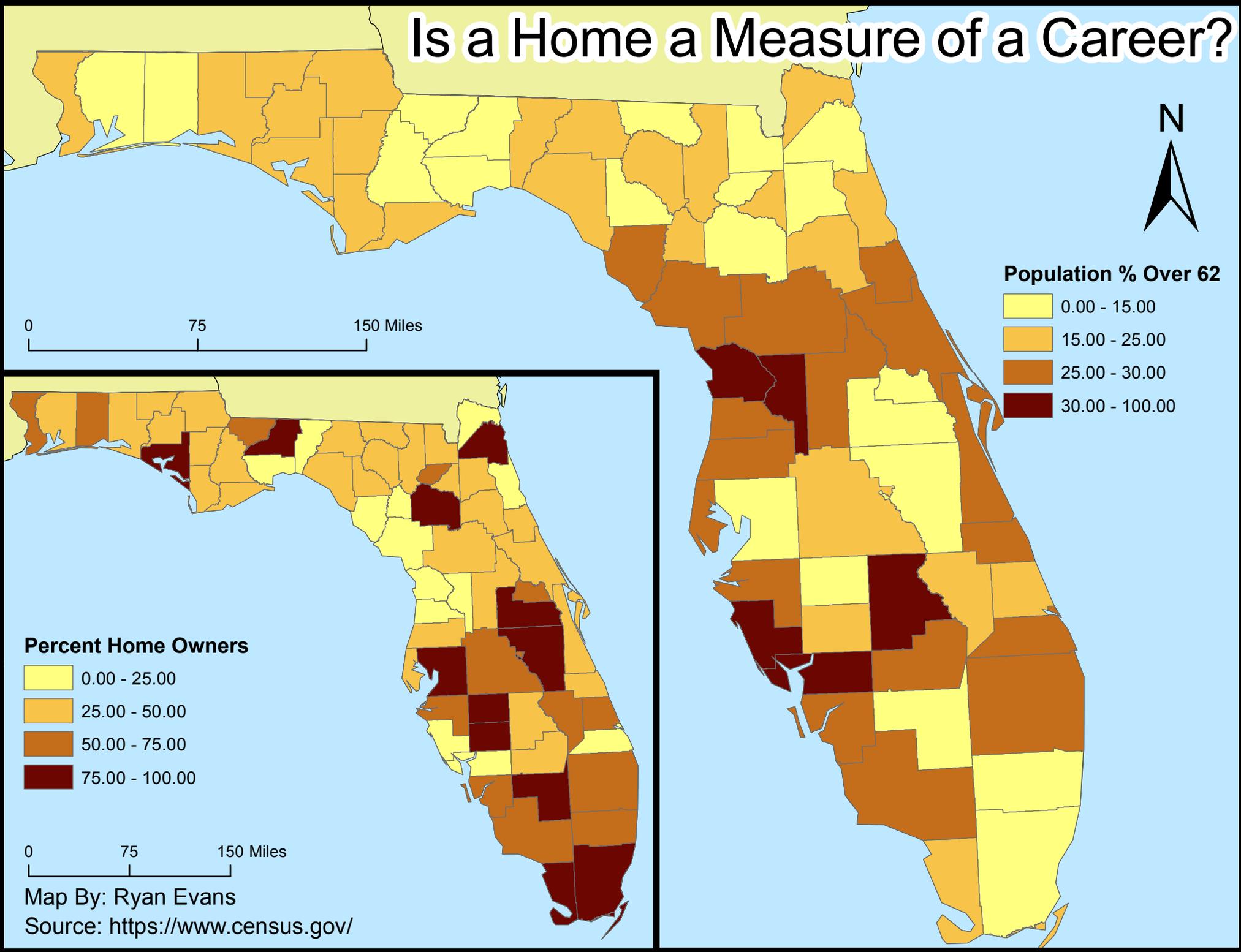
Studies have shown a strong correlation between excess nutrient runoff from agricultural areas and HABs incidents through their connecting drainage areas. The western coast of Florida in particular, which consists predominantly of farmland, continues to be a growing area of concern for its CWA's due to the area's frequent and large outbreaks of HABs.

Sources: MGIS Data USA State Boundaries;  
Florida Fish & Wildlife Conservation Commission;  
National Oceanic & Atmospheric Administration



Map By: Anita Nguyen  
October 7, 2015

# Is a Home a Measure of a Career?

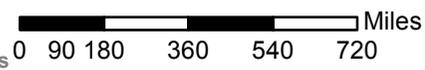


# People's Republic of China



The map simply shows the area of People's Republic of China with the water bodies and railroads it contained. The capital and the name of the each province were clearly marked on the map.

- ★ CapitalOfChina
- MainLandRail
- Lakes
- Province

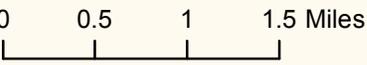


# Shipping Freight Movement



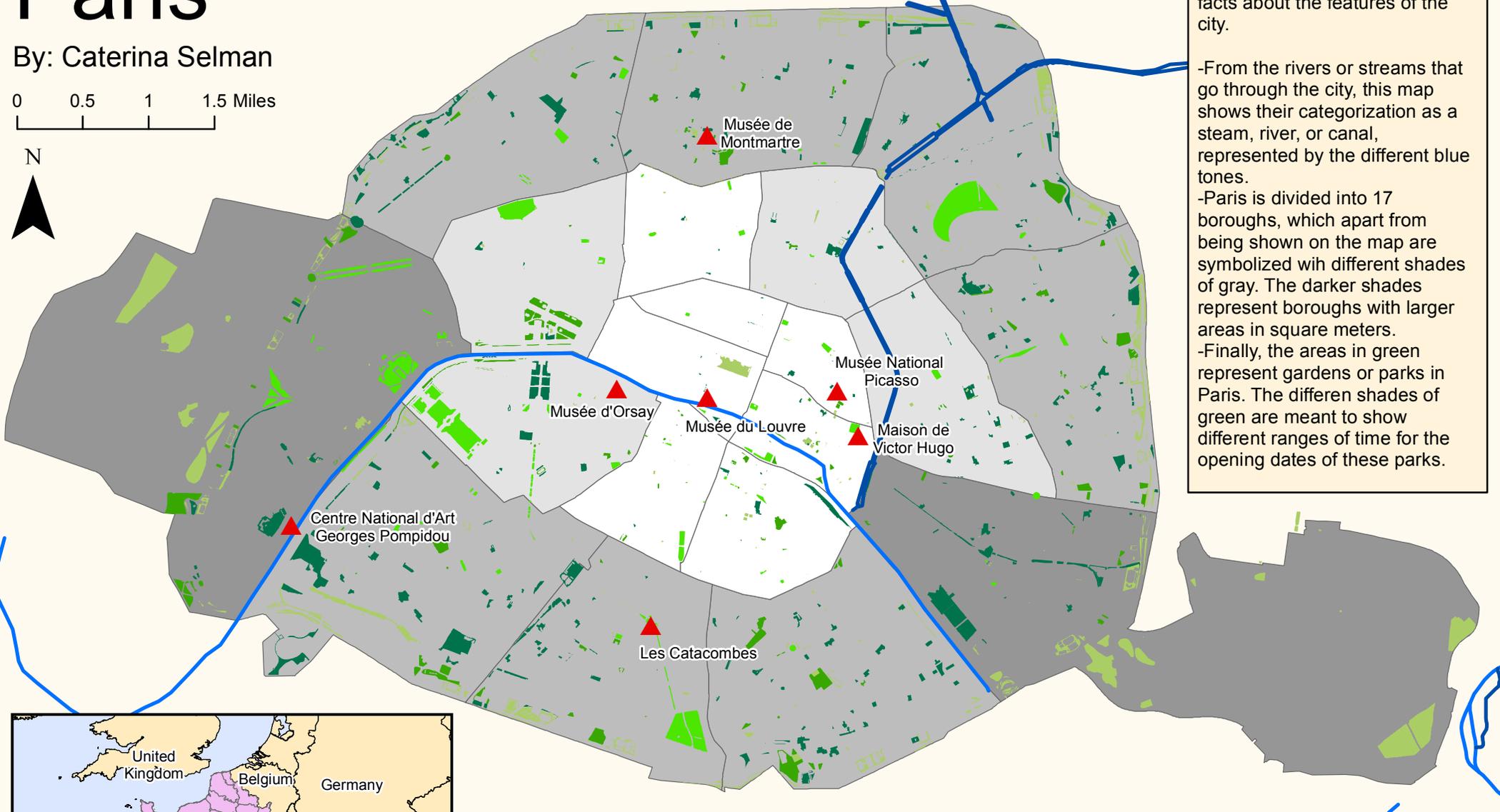
# Paris

By: Caterina Selman



This map of the city of Paris is meant to show some interesting facts about the features of the city.

- From the rivers or streams that go through the city, this map shows their categorization as a steam, river, or canal, represented by the different blue tones.
- Paris is divided into 17 boroughs, which apart from being shown on the map are symbolized with different shades of gray. The darker shades represent boroughs with larger areas in square meters.
- Finally, the areas in green represent gardens or parks in Paris. The different shades of green are meant to show different ranges of time for the opening dates of these parks.

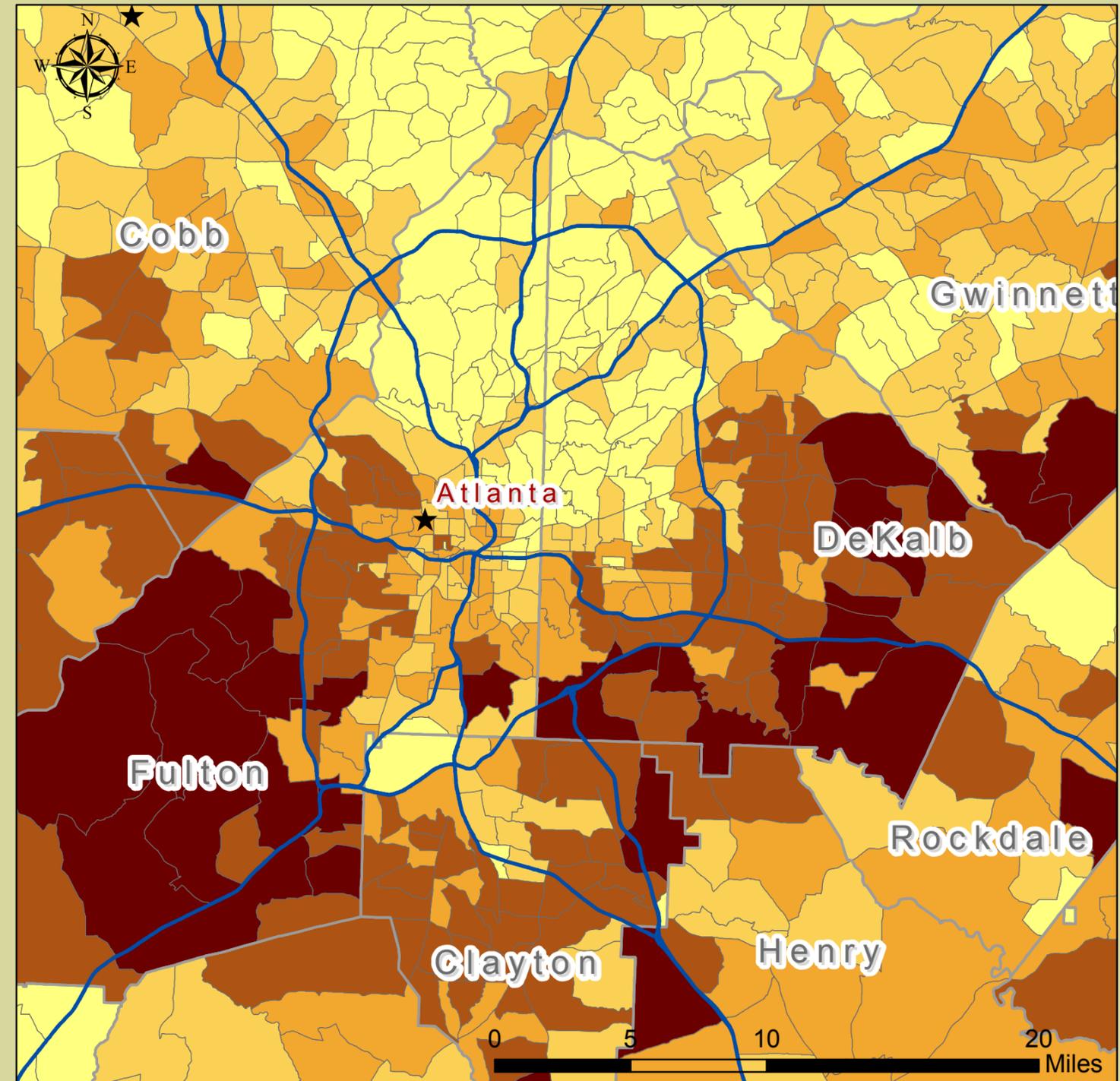
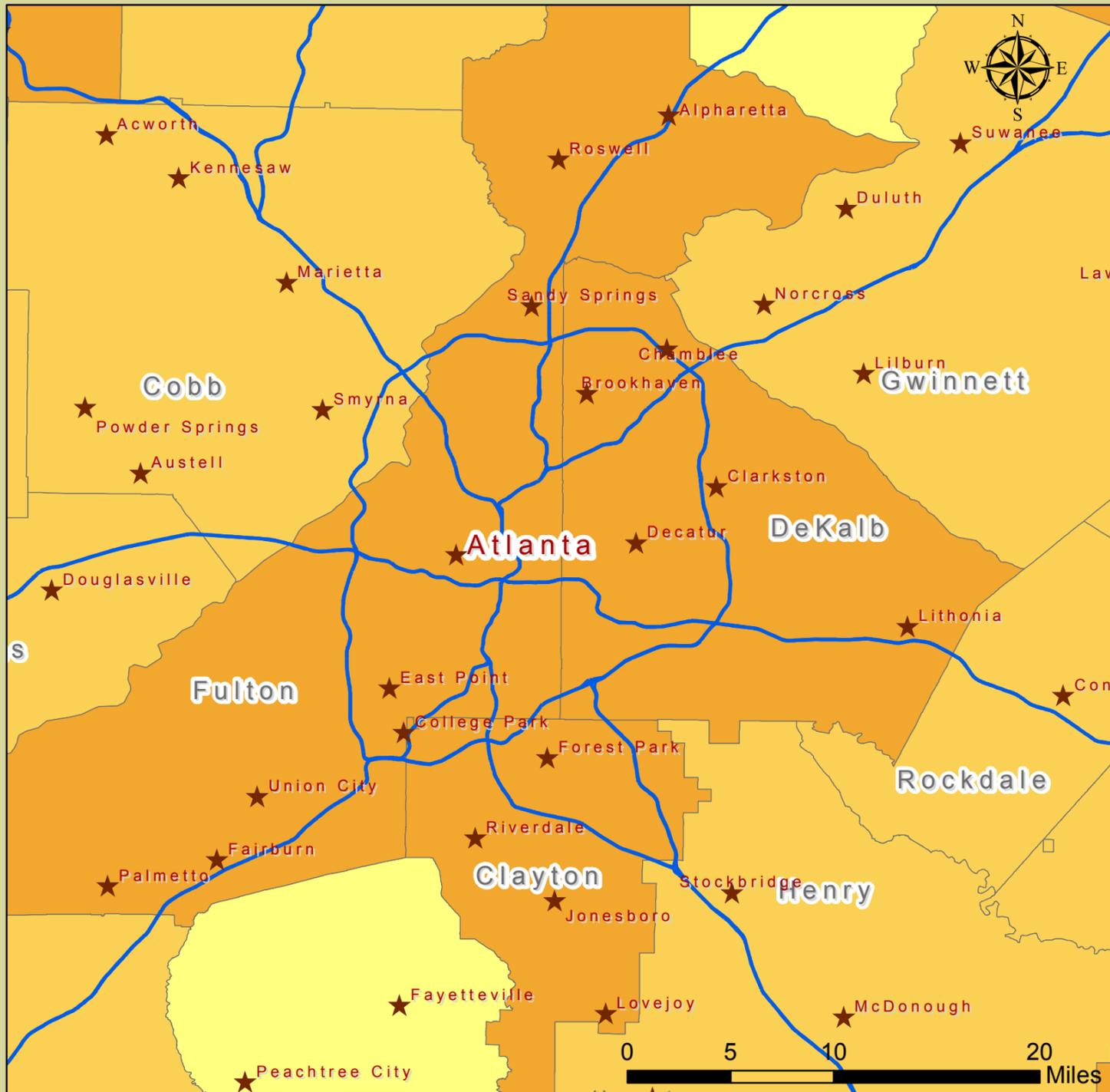


Boroughs		Parks/Gardens		Rivers	
Area	Year opened	Type			
2538285 - 4088259	1 - 1905	River			
4088260 - 8491488	1906 - 1961	Canal			
8491489 - 16365399	1962 - 2014	Stream			
990695 - 2538284	Unknown	Points of Interest			

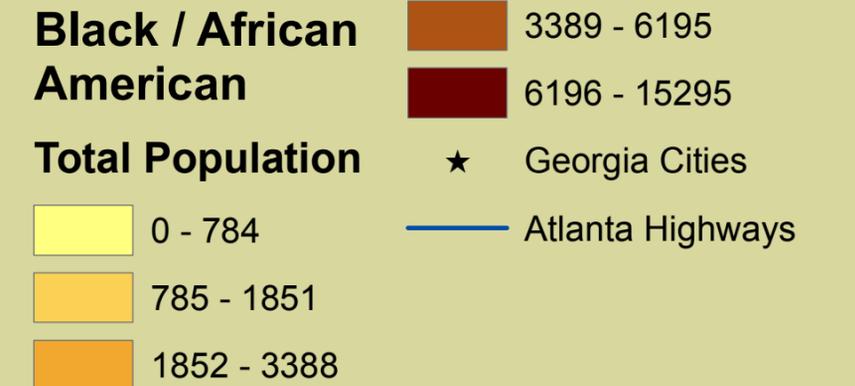
Sources: <http://www.diva-gis.org/datadown> - <http://opendata.paris.fr/>

# Black Population and Poverty around Metropolitan Atlanta

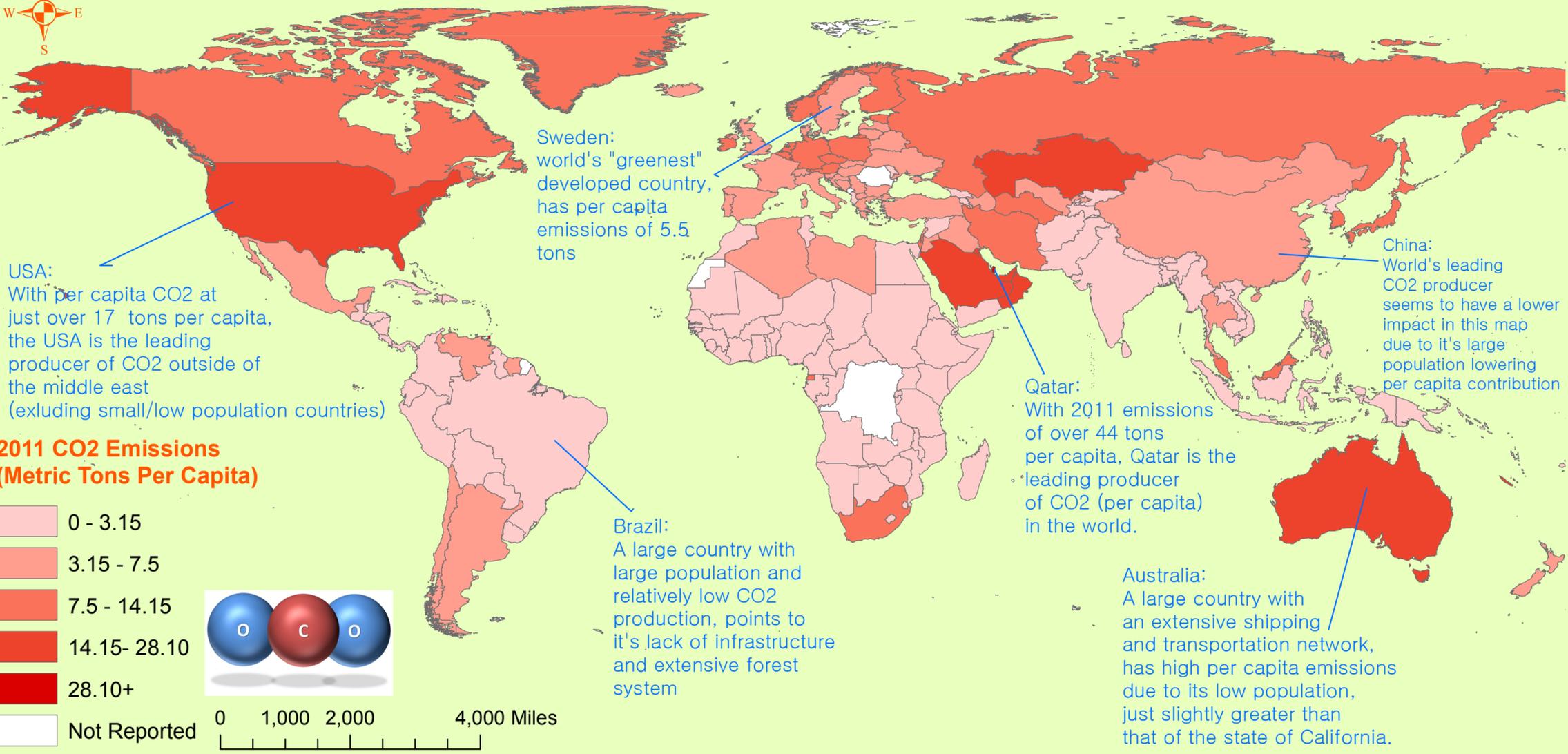
By: Toluwalase Omotosho. November 18th, 2015.



**Georgia is among the top five states with the largest population of Black/African Americans. Although, Georgia is not a relatively poor state, it is ranked 15th in reference to homelessness. This map shows the distribution of poverty for the capital of Georgia - Atlanta, as well as the distribution of Black/African Americans in Atlanta.**



# Worldwide Carbon Emissions & U.S. Non-Attainment Areas



This map displays data concerning worldwide carbon emissions, and some of the implications of increasing emissions in the United States, a country in the top 3 of both total CO2 emissions and per capita CO2 emissions.

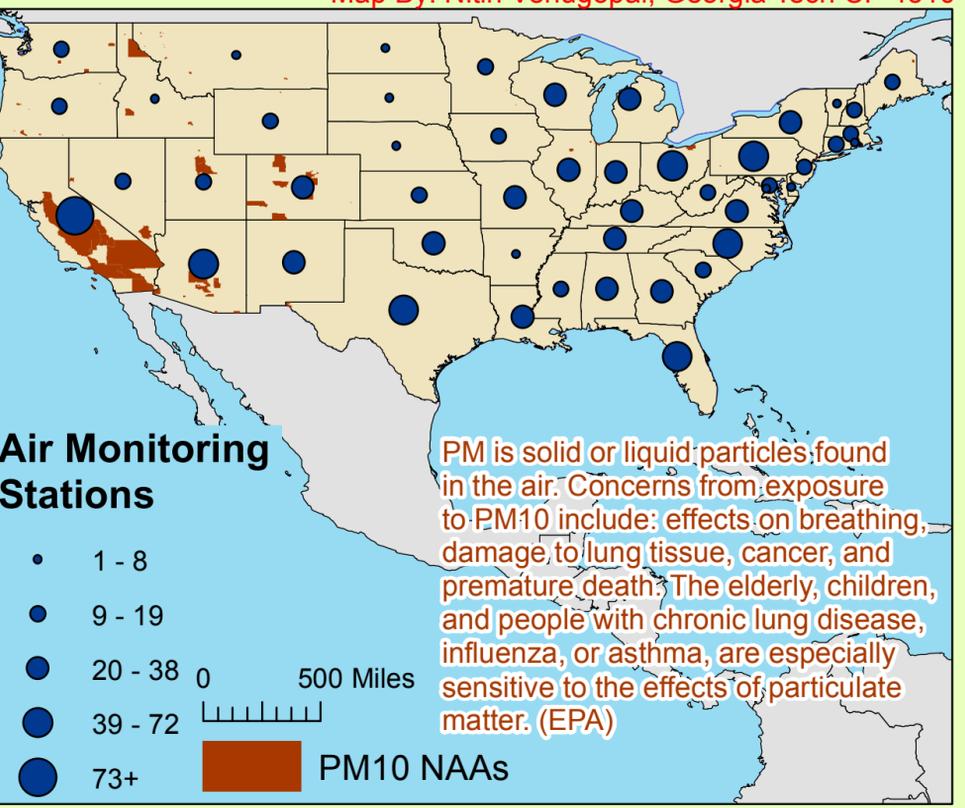
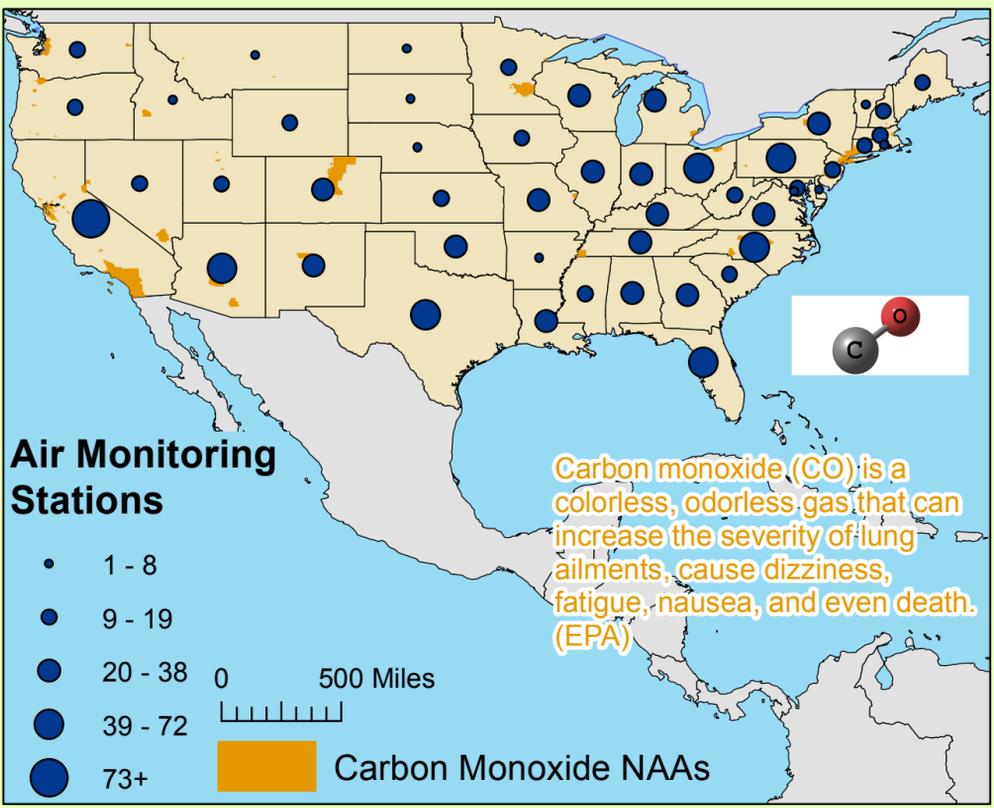
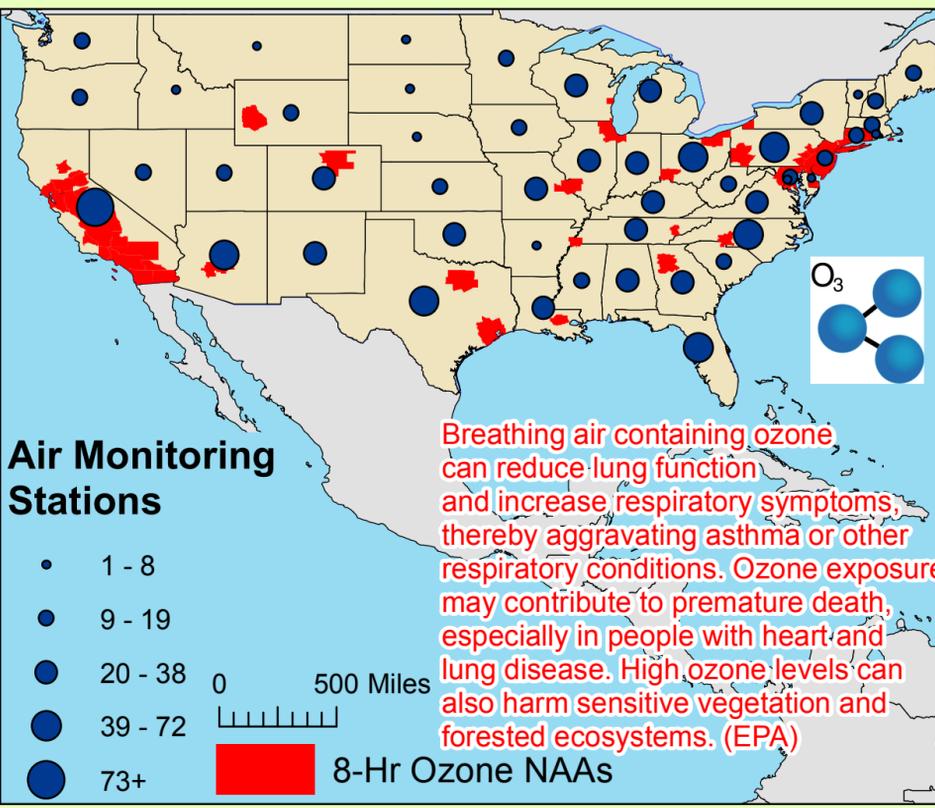
The map to the left shows per capita CO2 emissions, the total carbon dioxide production divided by the number of people per country.

The three maps on the bottom show the locations of "Non-Attainment Areas" (NAA) around the United States. An NAA is a region where air quality is lower than the "National Ambient Air Quality" standards due to the excess presence of an atmospheric chemical.

Three NAAs are outlined below, including 8-Hour Ozone, Carbon Monoxide, and PM10 (large particles between 2.5 and 10 micrometers in size). The areas indicate regions where a high ozone, carbon monoxide or PM10 concentration can lead to health and crop damage.

The maps also show the relative numbers of air quality monitoring stations around the US, which are more prevalent in states like California with large NAAs.

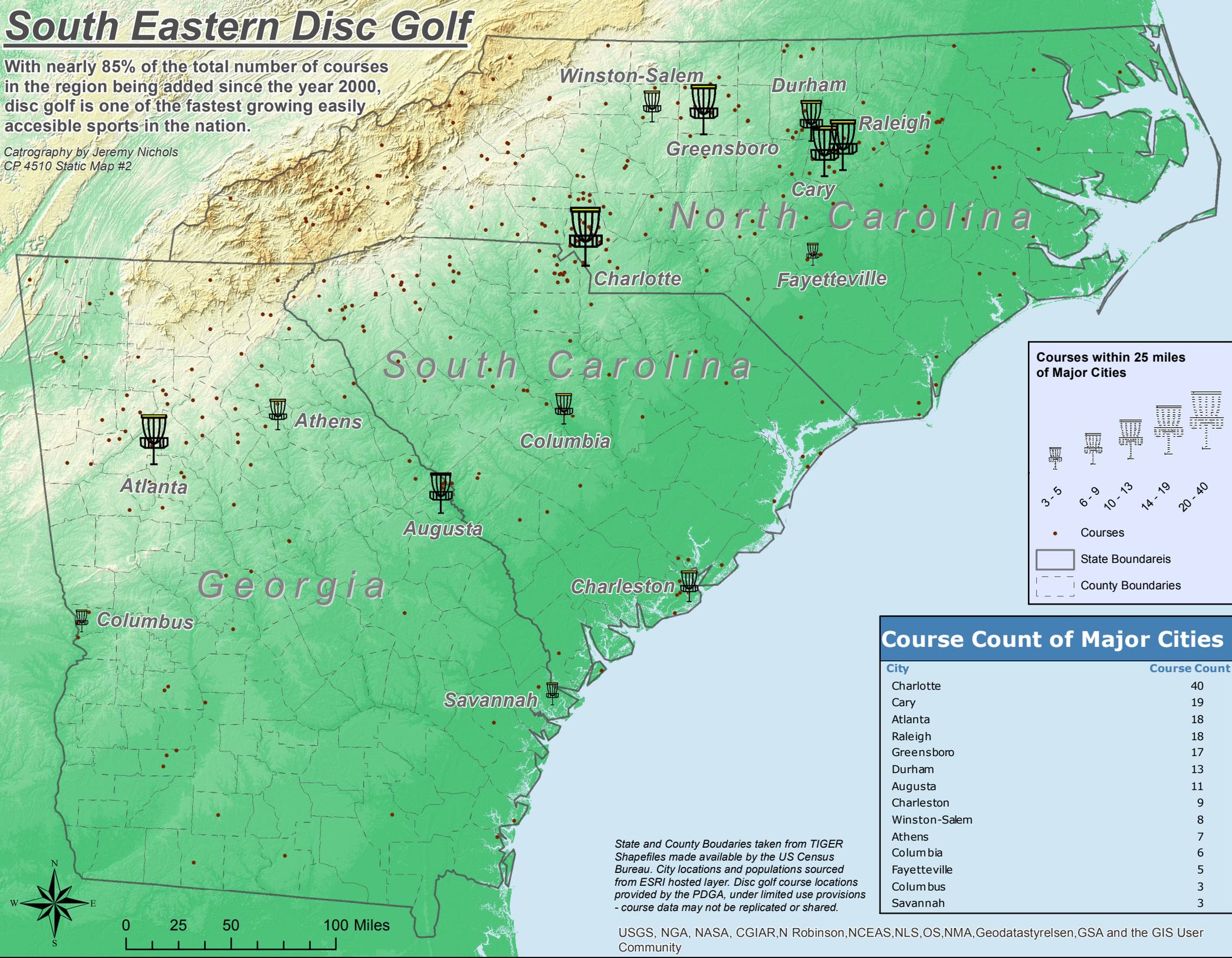
Map By: Nitin Venugopal, Georgia Tech CP 4510



# South Eastern Disc Golf

With nearly 85% of the total number of courses in the region being added since the year 2000, disc golf is one of the fastest growing easily accesible sports in the nation.

Catography by Jeremy Nichols  
CP 4510 Static Map #2



**Courses within 25 miles of Major Cities**

3-5  
 6-9  
 10-13  
 14-19  
 20-40

● Courses  
 — State Boundaries  
 - - - County Boundaries

**Course Count of Major Cities**

City	Course Count
Charlotte	40
Cary	19
Atlanta	18
Raleigh	18
Greensboro	17
Durham	13
Augusta	11
Charleston	9
Winston-Salem	8
Athens	7
Columbia	6
Fayetteville	5
Columbus	3
Savannah	3

State and County Boudaries taken from TIGER  
 Shapefiles made available by the US Census  
 Bureau. City locations and populations sourced  
 from ESRI hosted layer. Disc golf course locations  
 provided by the PDGA, under limited use provisions  
 - course data may not be replicated or shared.

USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodastyrelsen, GSA and the GIS User Community

# Denver, CO Metro Area

## State Parks

Name	Area (Acres)
Golden Gate Canyon State Park	11906
Chatfield State Park	5830
Cherry Creek State Park	4411
Staunton State Park	3836
Roxborough State Park	3321
Barr Lake State Park	2768
Eldorado Canyon State Park	1360
Roxborough State Park	5

**Legend**

- State Parks
- Lakes
- Perennial Streams
- County Boundaries

**Cities by Population (2010)**

- ★ 401,000 - 600,000
- 251,000 - 400,000
- ▲ 100,000 - 250,000

**Roads by Classification**

- Interstate
- Freeways and Expressways
- Major Arterial



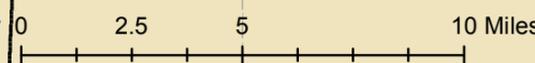
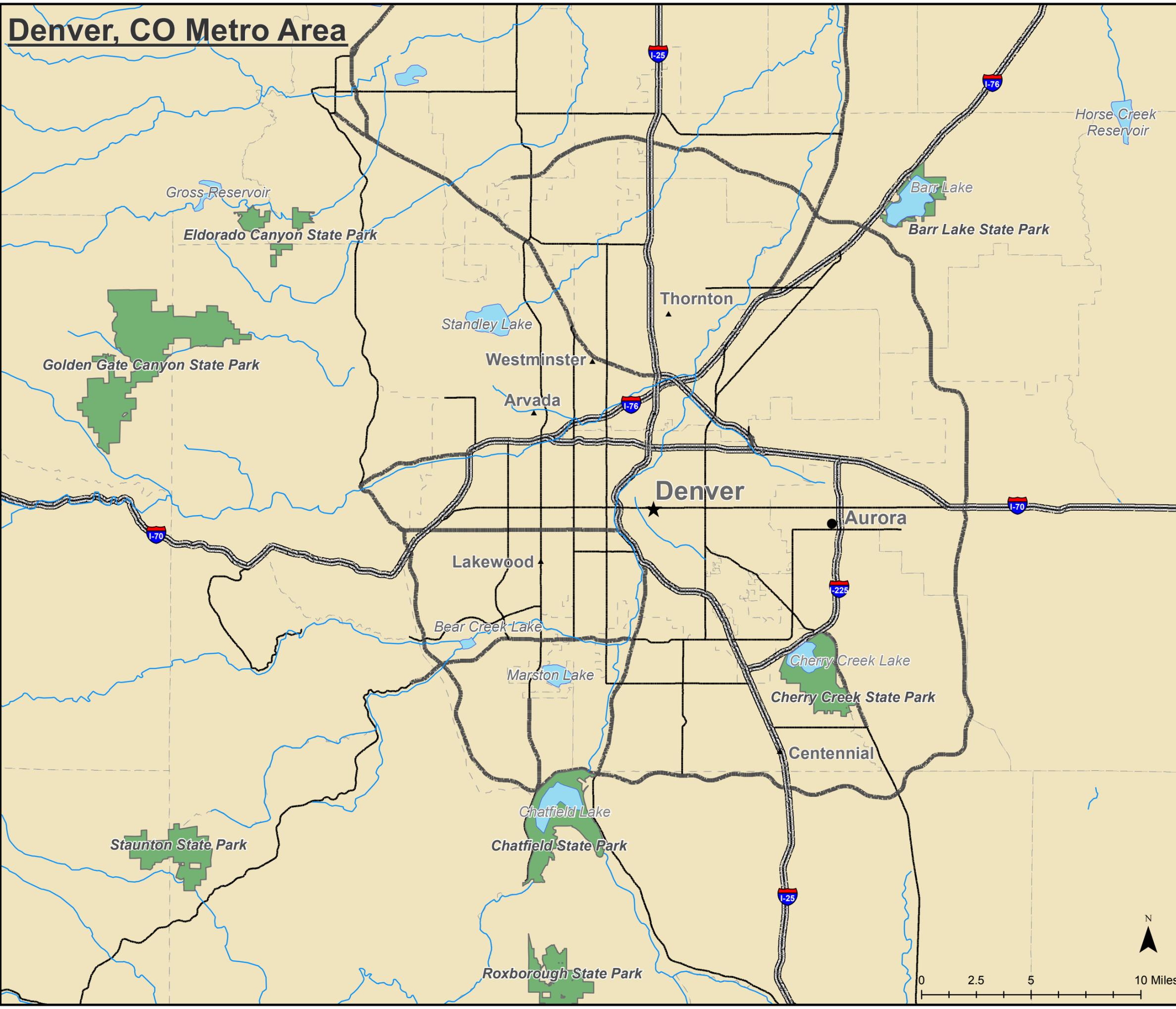
Park boundaries from the Colorado Division of Parks and Wildlife (2015)

Water feature data from USGS surveys (2014)

City Population data from the National Atlas of the United States (2010)

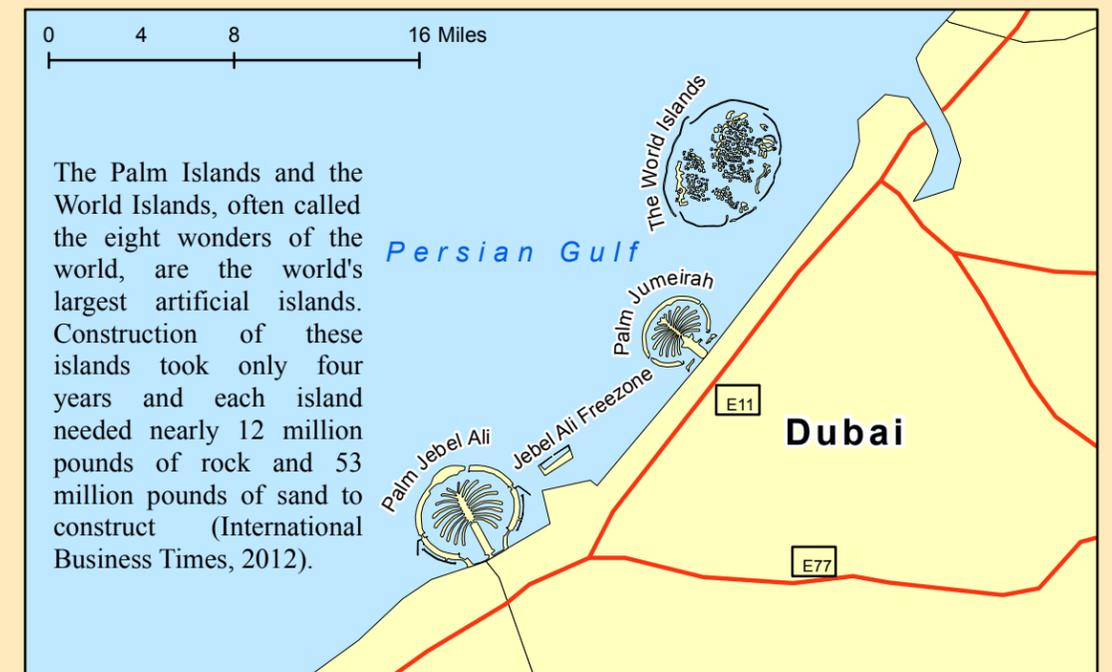
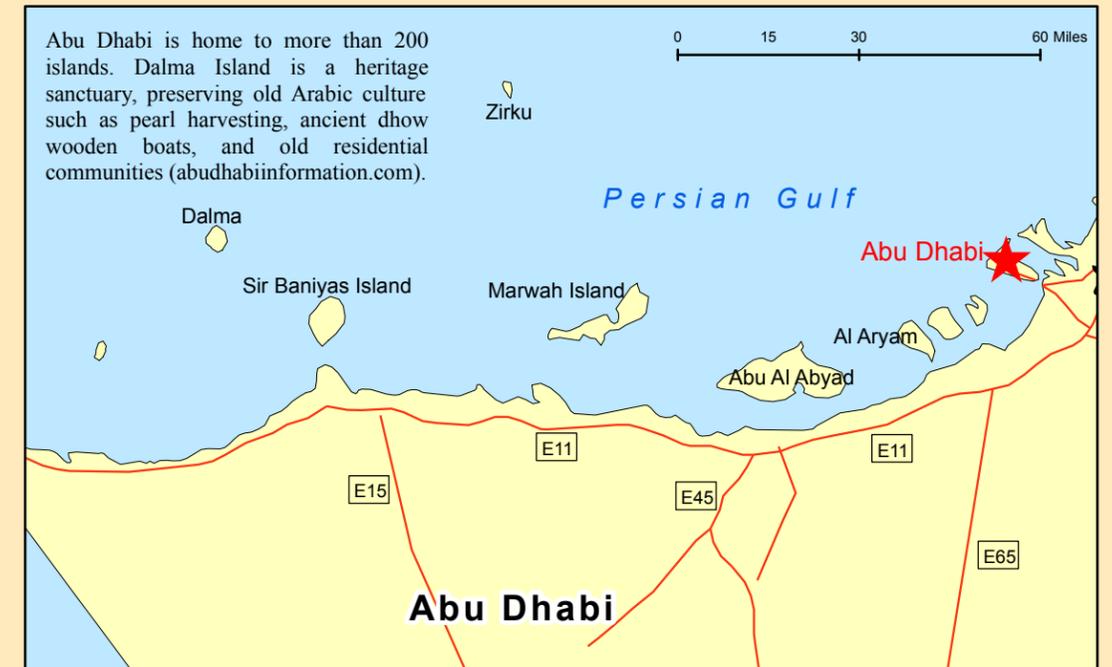
State and county boundary data from the US Census Bureau (2010)

Cartography by Jeremy Nichols for CEE4510, Print Map 1, 10/7/2015





# The United Arab Emirates and its neighbouring territories



★ Capital City   
 ● Major Cities   
 ✈ Airports   
  UAE Provinces   
  Countries   
 — Roads



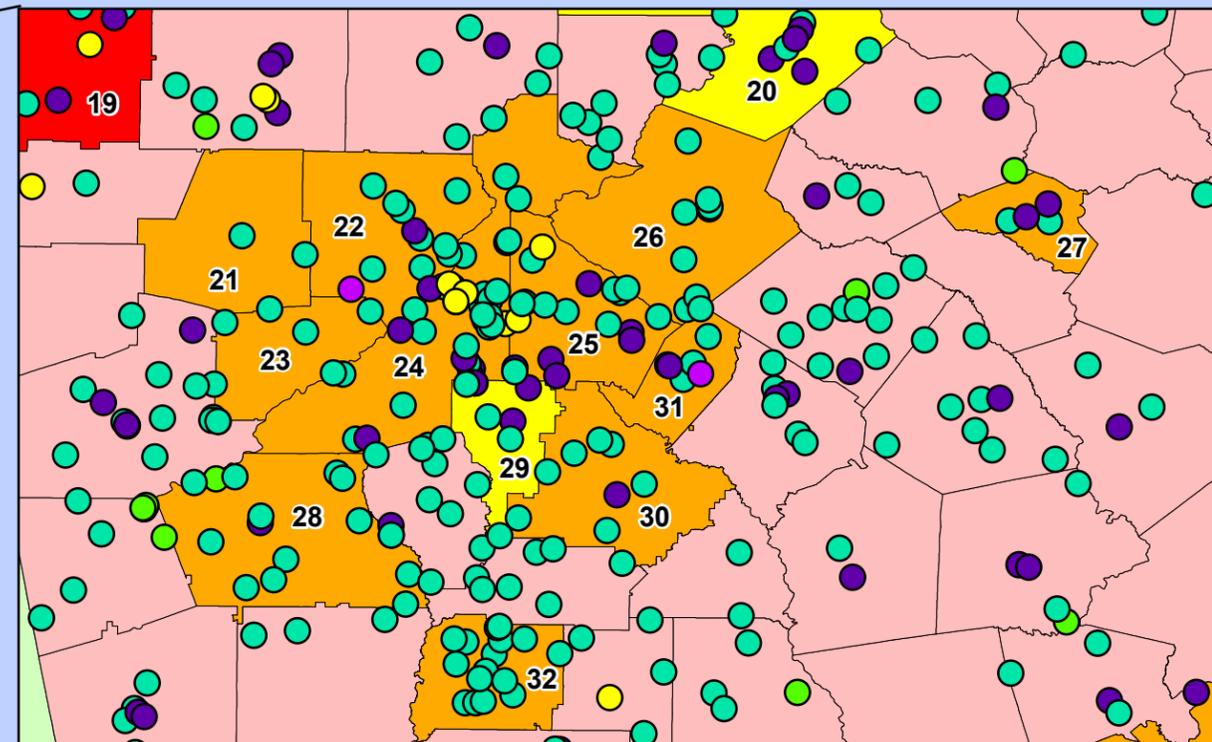
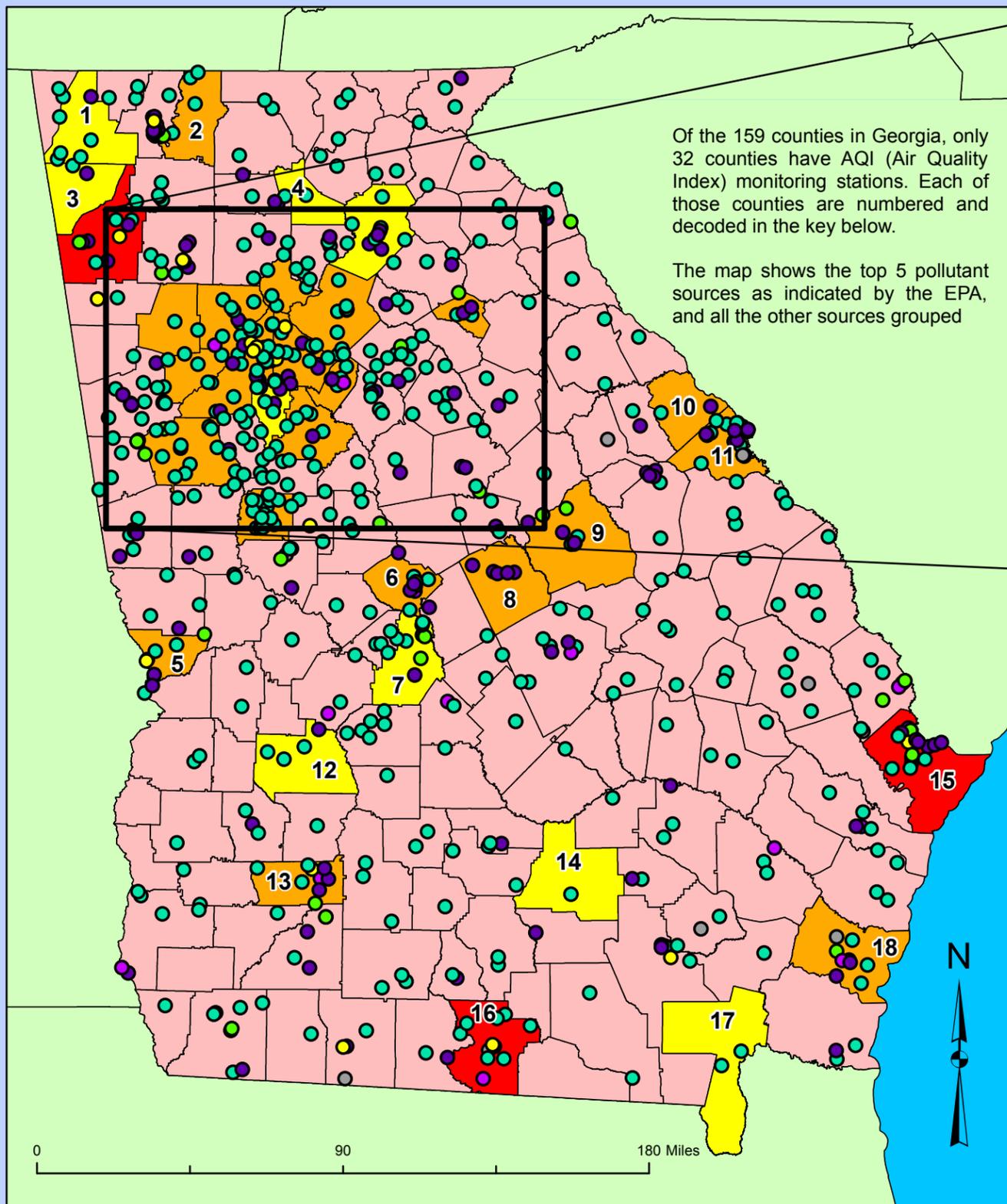
# Air Quality in Georgia (2011)

Conditions in Air Quality, pertaining to SO<sub>2</sub> emission sources and overall maximum AQI



Nicholas Mohammed  
CP 4510  
Due Date: 11/18/2015

Data Sources:  
Point data: epa.gov  
County data: census.gov  
State data: census.gov



### COUNTY KEY

- 1 - Walker
- 2 - Murray
- 3 - Chatanooga
- 4 - Dawson
- 5 - Muscogee
- 6 - Bibb
- 7 - Houston
- 8 - Wilkinson
- 9 - Washington
- 10 - Columbia
- 11 - Richmond
- 12 - Sumter
- 13 - Dougherty
- 14 - Coffee
- 15 - Chatham
- 16 - Lowndes
- 17 - Charlton
- 18 - Glynn
- 19 - Floyd
- 20 - Hall
- 21 - Paulding
- 22 - Cobb
- 23 - Douglas
- 24 - Fulton
- 25 - DeKalb
- 26 - Gwinnett
- 27 - Clarke
- 28 - Coweta
- 29 - Clayton
- 30 - Henry
- 31 - Rockdale
- 32 - Pike

### AQI and SO<sub>2</sub> pollutants

AQI (Air Quality Index) is a measure of how clean or polluted the air is. The AQI focuses on the health effects of polluted air and is ranked from 0-500, with 0 being good, clean air and 500 being very hazardous air.

SO<sub>2</sub> (Sulphur Dioxide) was chosen as a focus because of how dangerous it is to human and plant life. It mixes with rain water to cause acid rain and can cause major cardiovascular problems in humans.

The Environmental Protection Agency monitors SO<sub>2</sub> at various locations in Georgia. For each location, they determine the source of pollution, and the concentration of pollutants. Every point on this map represents a monitoring location and the major source of pollutant at that location.

**Airports are the major sources of SO<sub>2</sub> emissions in the atmosphere**

### SO<sub>2</sub> emission sources

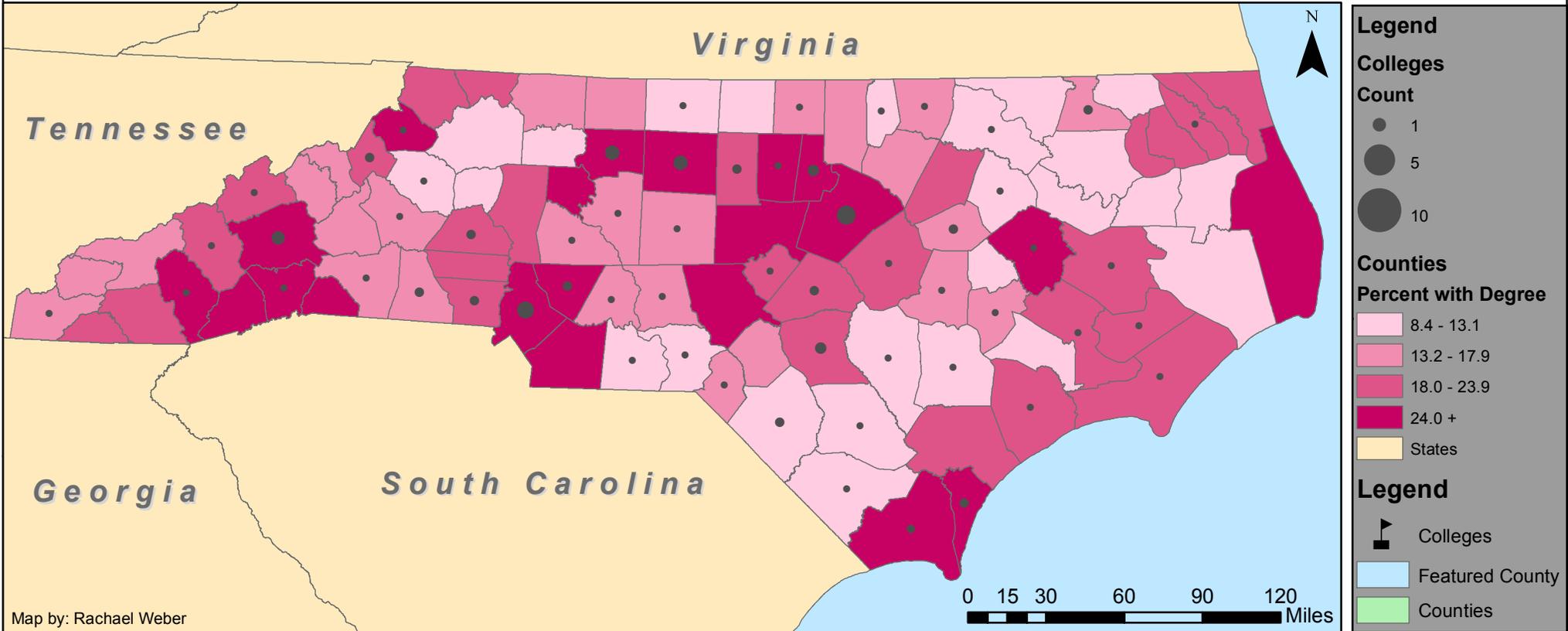
- Other Sources
- Source Type**
- Airport
- Electricity Generation via Combustion
- Rail Yard
- Pulp and Paper Plant
- Lumber/Sawmill

### Air Quality Conditions

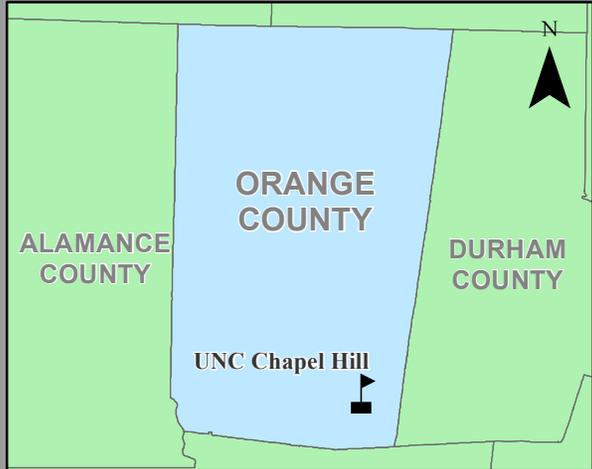
- AQI Maximum**
- Moderate
- Unhealthy for Sensitive Groups
- Unhealthy
- No Data

# Percentage of Population with Bachelor's Degree or Higher

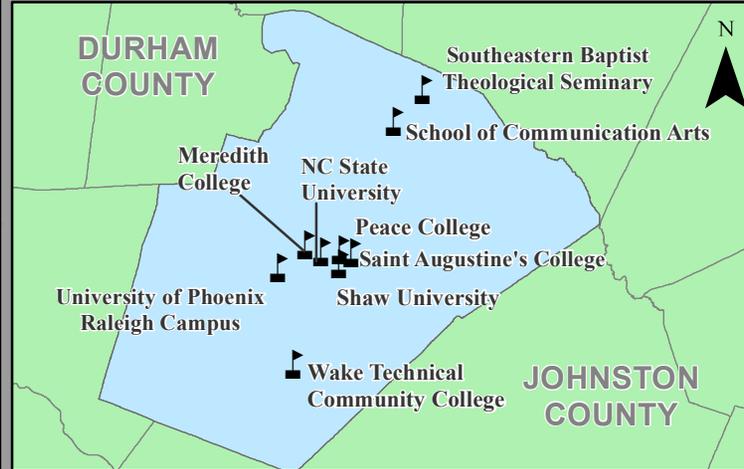
North Carolina is ranked 42nd in the percent of state population that has earned a Bachelor's Degree or higher with 23.8% of its people having earned a qualifying degree. The map below shows the percentage of the population that has earned a Bachelor's Degree or higher by county in North Carolina. Orange, Wake, and Durham counties have the highest percentage of college educated people and are detailed below. The state map also shows the number of colleges in each county in North Carolina. Wake County is home to the most colleges in the state, with nine area colleges. Mecklenberg County is second with eight area colleges.



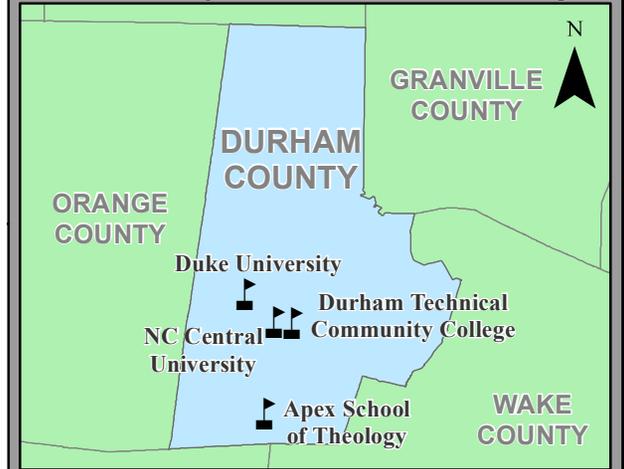
**Orange County: 55.8% with Bachelor's Degree**



**Wake County: 48% with Bachelor's Degree**

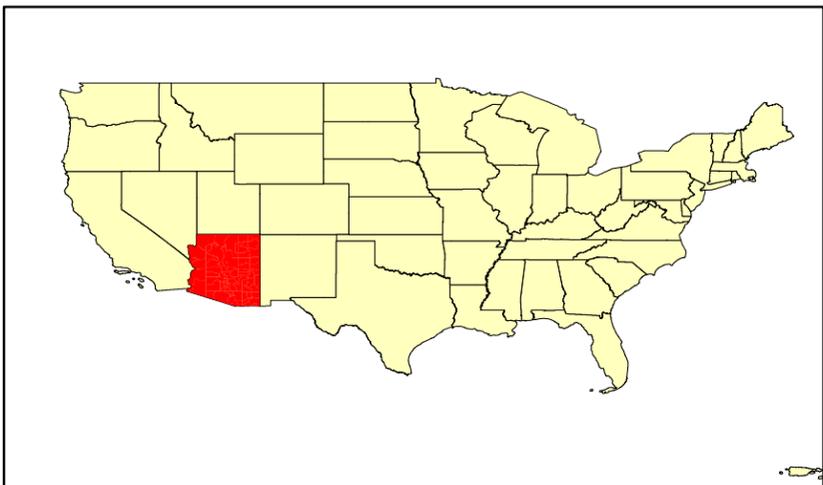


**Durham County: 45.1% with Bachelor's Degree**





# The State of Arizona



*"Wilderness adds tremendous value to the quality of life in Arizona, drawing millions in tourist revenue and protecting our sweeping canyon, forest, mountain, and desert vistas from sprawling development."*

Source: <http://www.azwild.org>

Map By: William Woolery

Map Data Source: <http://uair.library.arizona.edu>



# Transit and Food Environment Analysis : Chamblee, GA

Chamblee is located in the Metro-Atlanta region of Georgia and home to over 10,000. 22.9% of the population was under the poverty line in 2010. As Georgia has moved toward implementing more complete streets throughout the Atlanta region, areas such as Chamblee have been ignored and remain with the same transit facilities. The map to the right shows the transit scores and poverty rate for residential areas in Chamblee. The transit score is based on available bus stops within a quarter mile walking distance and whether the rail station is within the same walking distance. Groceries are essential and locations are sometimes not widely available for most residential areas which forces people to find transportation to locations. Sometimes transportation is not widely available. The grocery index is based on how walkable they are to residential areas, bus stops and rail stations, and how large the store is. Chamblee could definitely use more bicycle facilities and an expanded transit network to reach all residential areas.

## Legend

### Grocery Score

-  1
-  1 - 2
-  2 - 3
-  3 - 4

### Residential Transit Score

-  0 - 7
-  8 - 13
-  14 - 20
-  21 - 26
-  27 - 33

 MARTA Station

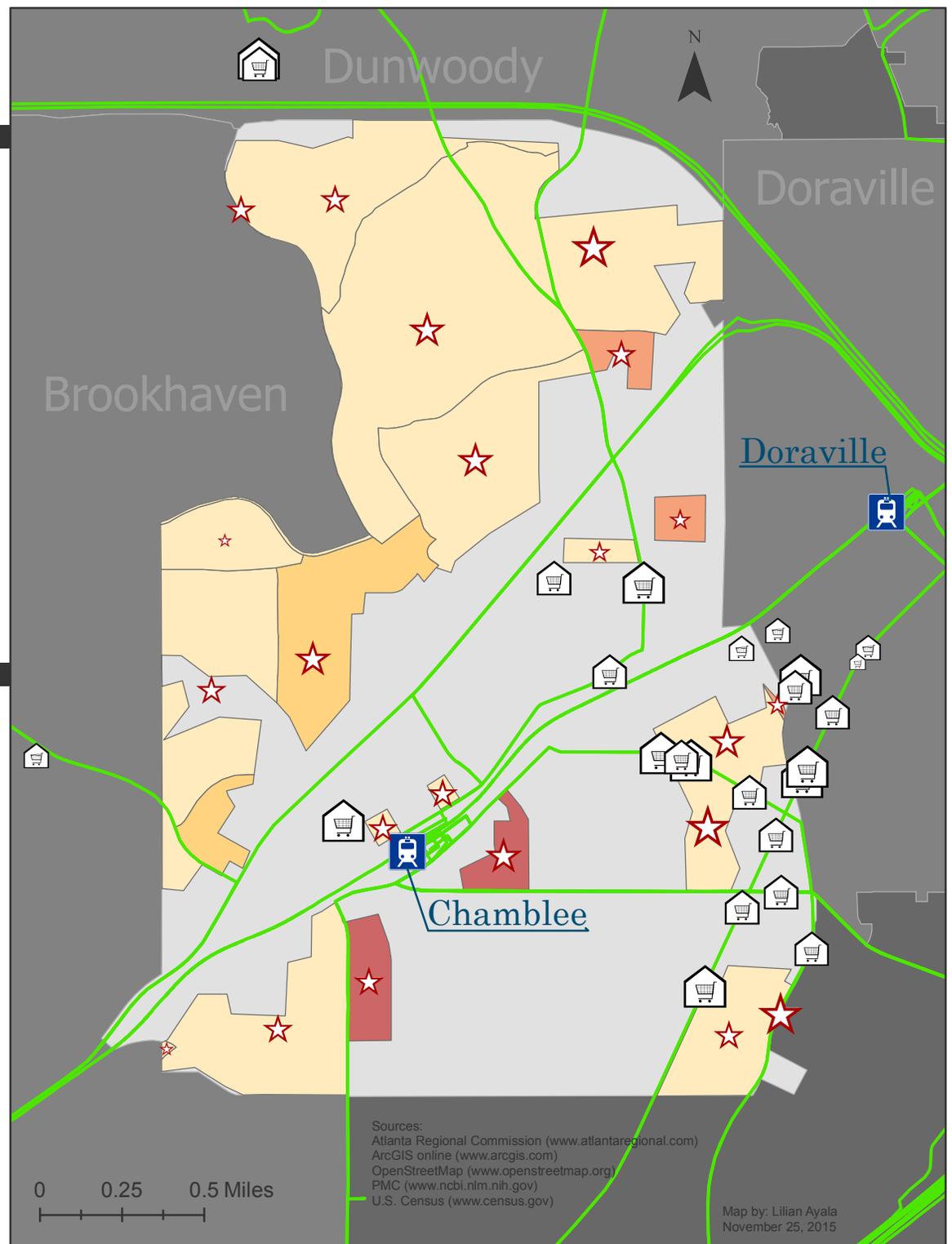
 Transit Routes

### Poverty Percentage

-  0 - 10
-  11 - 20
-  21 - 30
-  31 - 40

### Cities in Atlanta

-  Chamblee



# Nuclear Reactors and Population Growth

Map Produced by: Andrew Malzer  
November 18, 2015



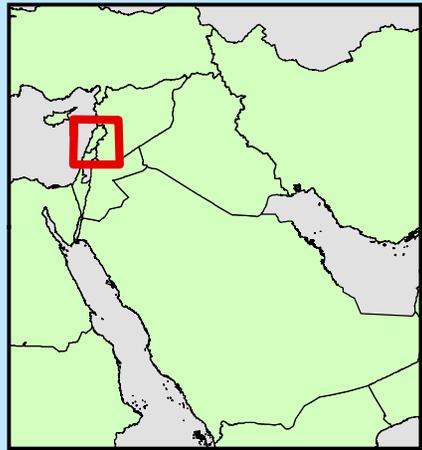
This map shows the locations of all the current nuclear reactors within the United States. In addition to this, it also shows a graduated symbol representation of the population growth within major cities from 1950 - 2050. The cities that have experienced the most population growth are denoted by a scale of red. The cities that have experienced the least population growth are denoted by a scale of green.

To do this, I created an additional field in the attribute table of population and used the field calculator in order to determine the net population growth for each city.

This map was created in hopes to raise awareness to areas of higher population and their relation to nuclear reactors around the country.



# Lebanon



Map source: <http://www.diva-gis.org/datadown>  
<http://www.mapcruzin.com/free-lebanon-country-city-place-gis-shapefiles.htm>



The old Souks of Jbeil, which basically represents the old market place. A very touristic attraction in the north of Lebanon.



Beaches in Batroun and the North of Lebanon are a mixture of Sand and shells.



Columns from the temple of Jupiter in Baalbek, dating back to the days of the Phoenicians.

## Syria

## Mediterranean Sea



Beirut is the capital of Lebanon, it is also where I reside.



Phoenician Tyre was Queen of the Seas, an island city of unprecedented splendor.



Where the Gholmie's are from

- ▲ Significant Towns
- ★ Capital City
- Major Cities
- Water Lines
- Major Roads
- Water Areas

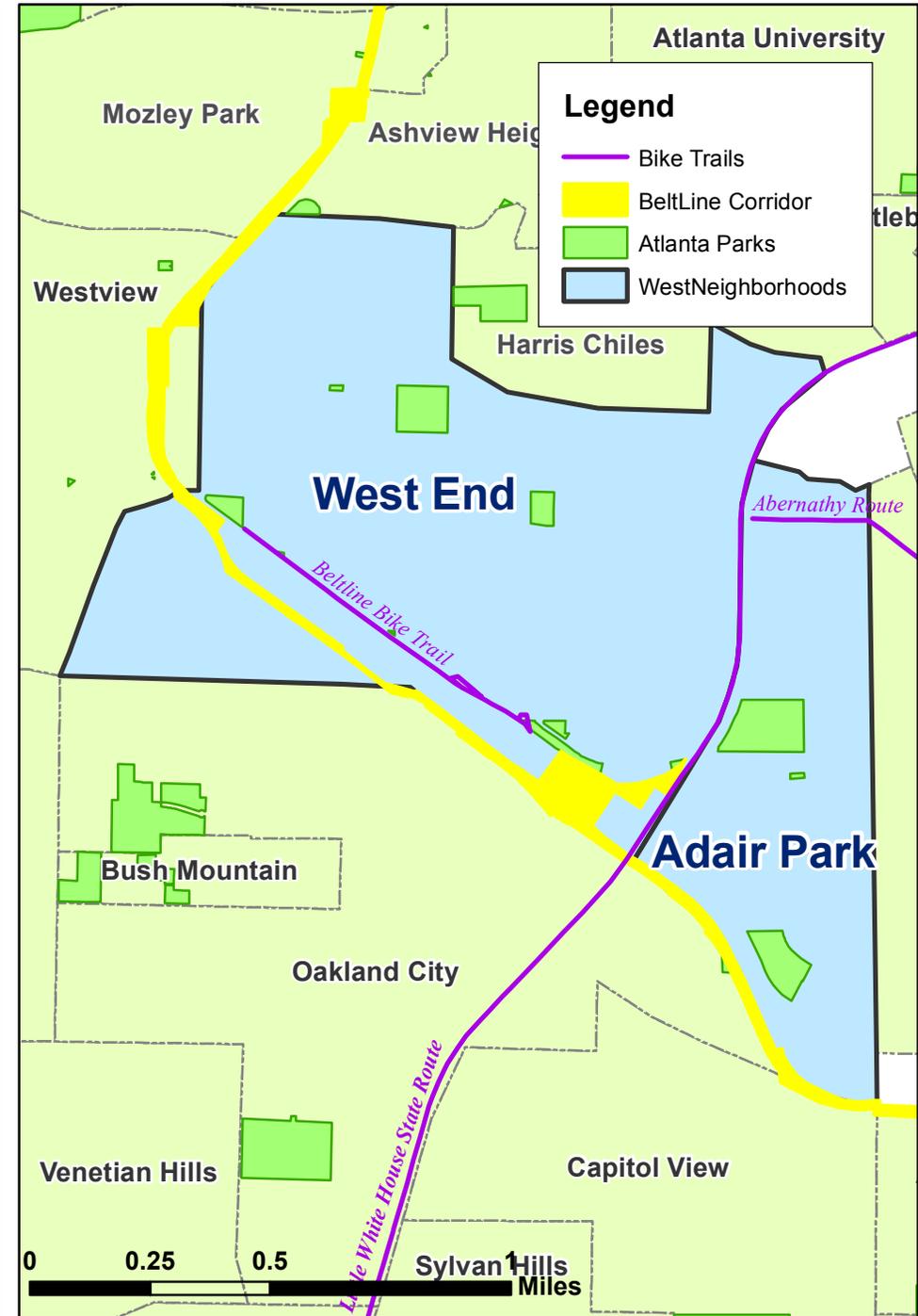
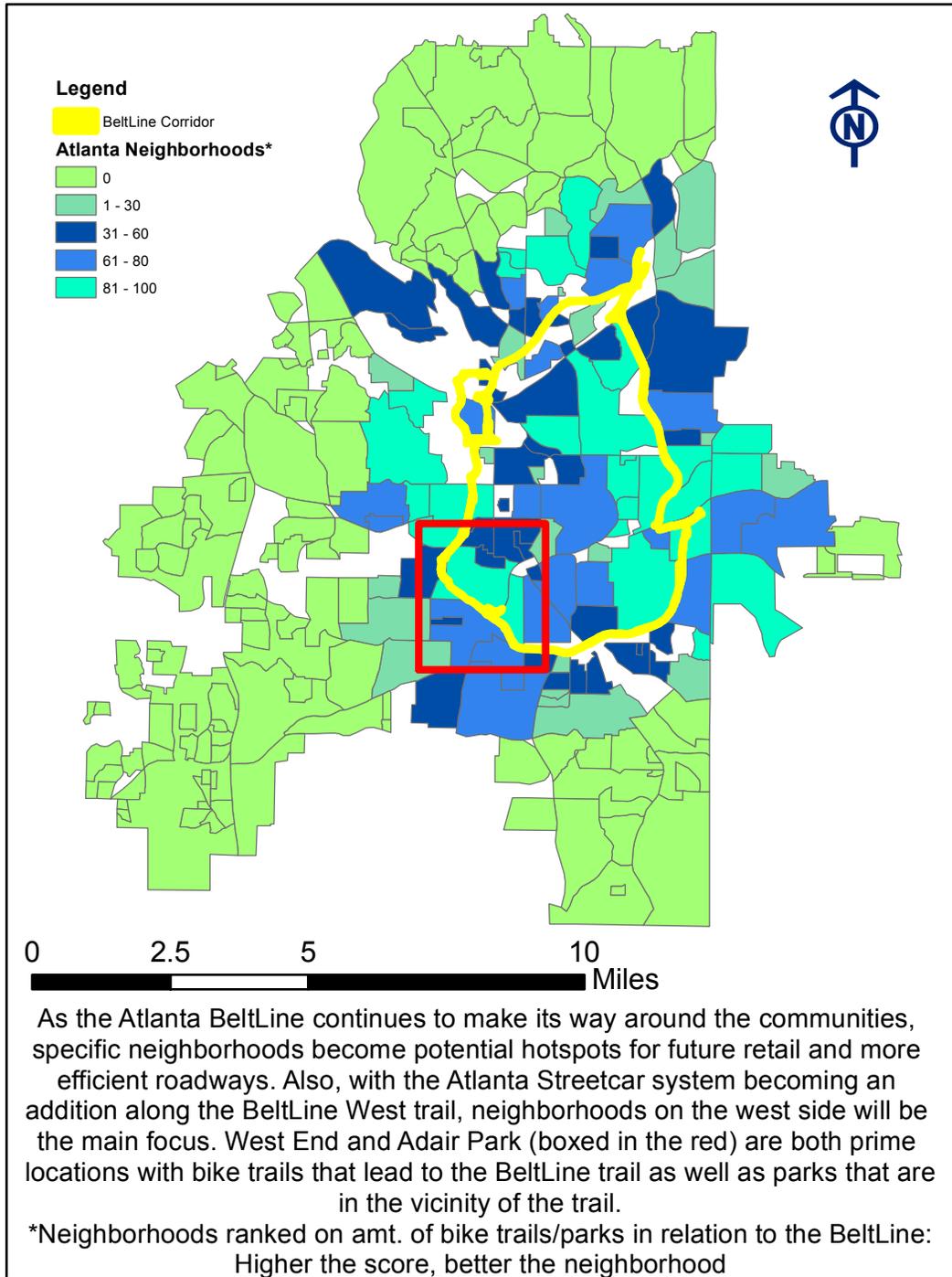
0 12.5 25 Miles

## Israel

Map by: Shawki Gholmie



# Best Neighborhoods Near the Atlanta BeltLine

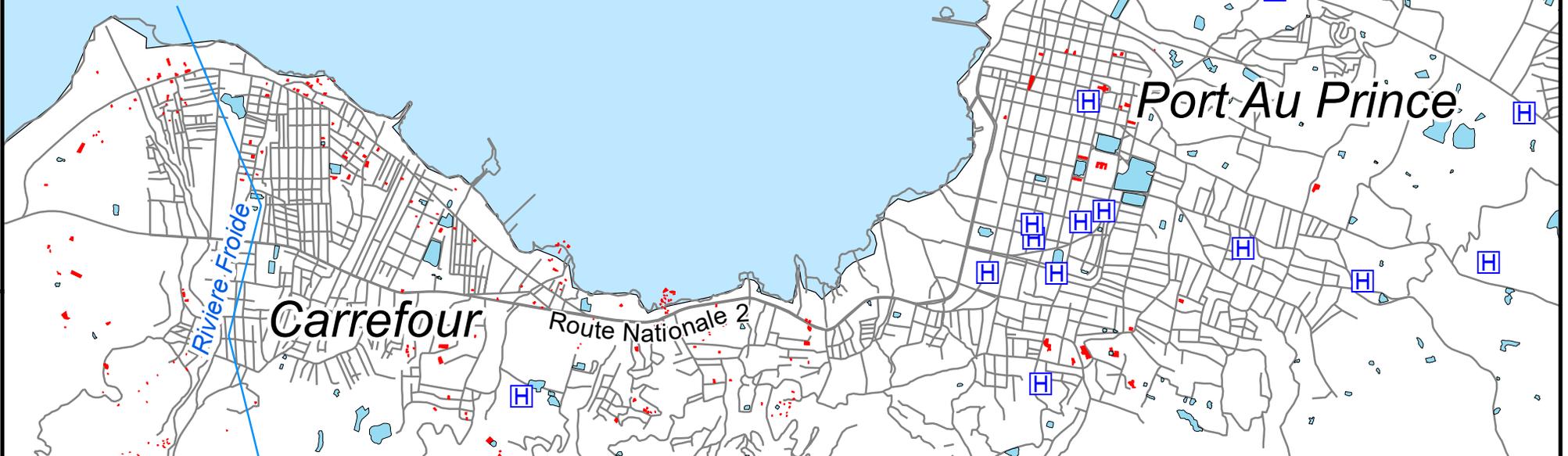


# 2010 Haiti Earthquake



Map by Miles Dayoub  
10/6/2015  
10 different datasets

Port Au Prince Bay



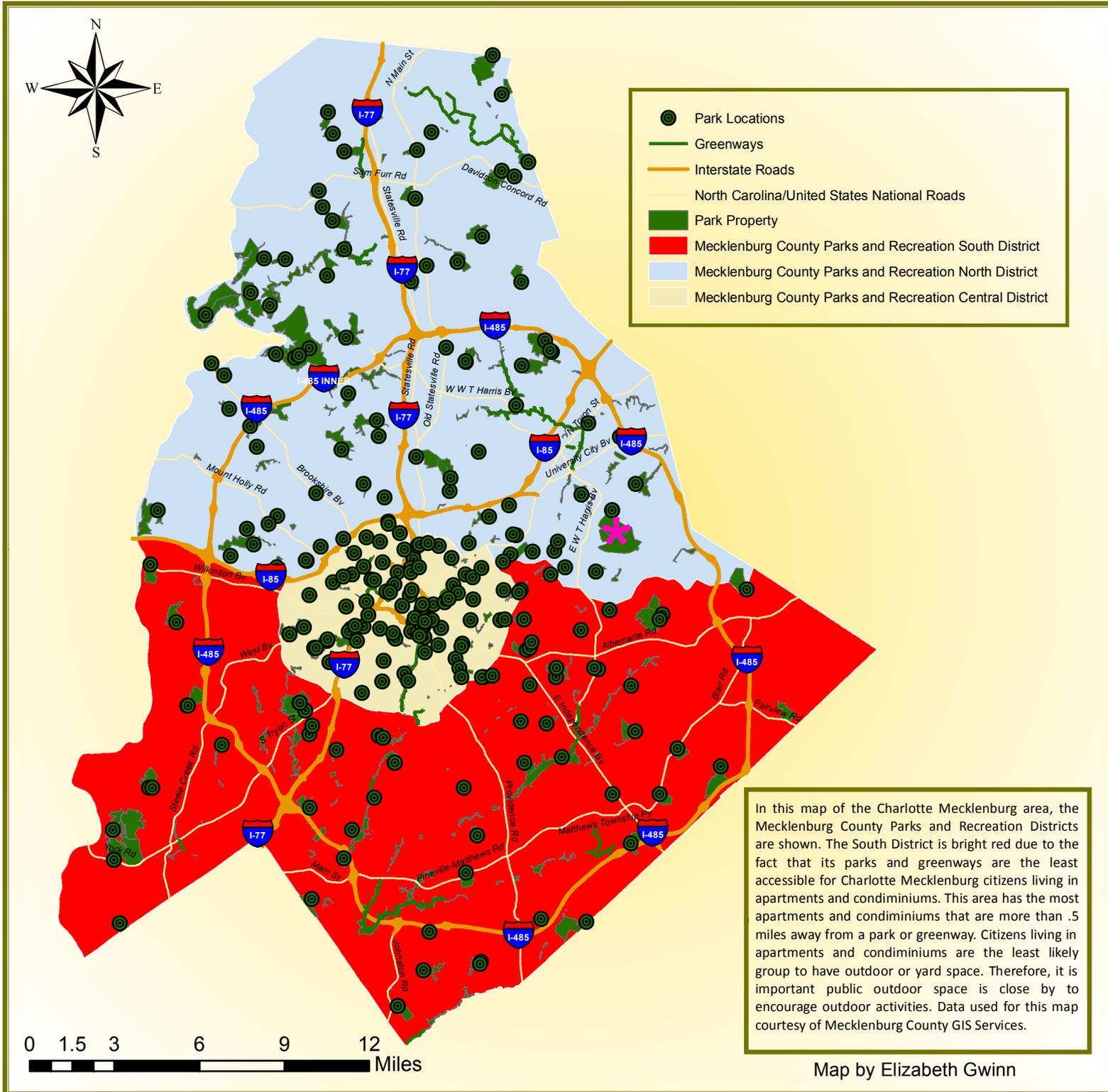
- Destroyed Buildings
- Housing Camps
- Health Facilities
- Airports
- Roads
- Rivers

This map shows the effects of the earthquake that shook Haiti in January of 2010. The focus is on the nation's capital by showing the areas that contain demolished buildings, temporary housing camps, and makeshift health facilities. The 7.0 magnitude earthquake killed over 100,000 people and injured many more. Organizations around the globe sent aid to help the country recover from the detrimental damages. The data was found at [dataverse.harvard.edu](http://dataverse.harvard.edu), [diva-gis.org](http://diva-gis.org), and Wikipedia.

0 0.5 1 2 Miles



# Parks for All: Park Availability for Citizens of the Charlotte Mecklenburg Area



Featured in the map above are the South District and 671 properties that are listed as vacant by the Charlotte area census. As vacant properties, the Mecklenburg Parks and Recreation Department could look into purchasing them to turn into green space for the citizens of the South District.

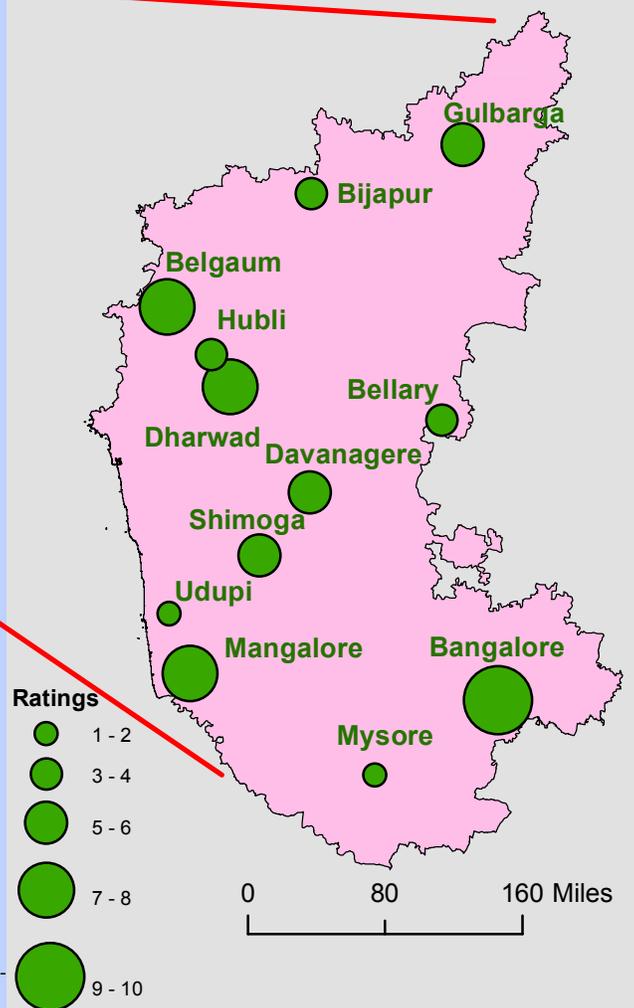
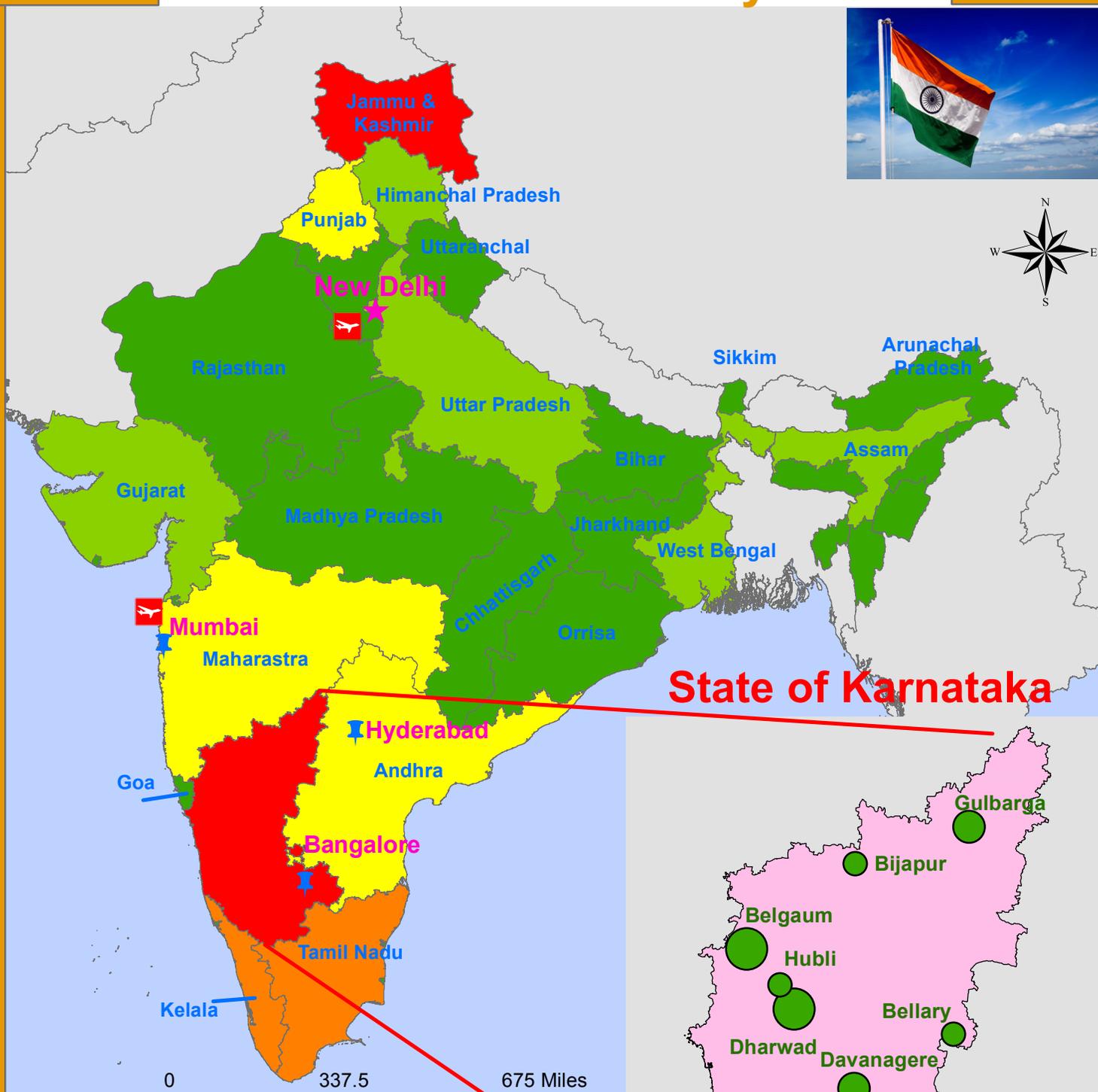


The picture above is of Reedy Creek Park, marked on the map to the left by a pink asterisk. Picture from Charlotte Disc Golf Club.

In this map of the Charlotte Mecklenburg area, the Mecklenburg County Parks and Recreation Districts are shown. The South District is bright red due to the fact that its parks and greenways are the least accessible for Charlotte Mecklenburg citizens living in apartments and condominiums. This area has the most apartments and condominiums that are more than .5 miles away from a park or greenway. Citizens living in apartments and condominiums are the least likely group to have outdoor or yard space. Therefore, it is important public outdoor space is close by to encourage outdoor activities. Data used for this map courtesy of Mecklenburg County GIS Services.

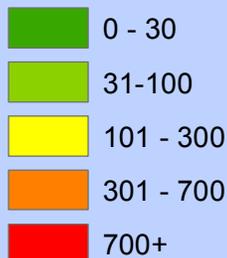
Map by Elizabeth Gwinn

# India's Educational System



- Airport
- Major City
- Capital City

## Educational Institutions Per State



Map by: Shawki Gholmie

Map Sources:  
<http://www.diva-gis.org/gdata>  
<http://www.mapcruzin.com/free-india-country-city-place-gisshapefiles.htm>

Shawki Gholmie

Print map 2 Memo

11/18/2015

For my print map 2, I wished to show that for one of the most populous countries in the world (India has over 1 billion citizens), their educational institutions were not only poorly distributed, but were also insufficient. The government only recognizes about 8300 institutions, colleges and schools. That is not only insufficient, but it is one of the main reasons behind the countries enormous illiteracy statistics, and this could also be the reason why poverty is a huge issue in India, 30% of the Indian population lives below the poverty line...

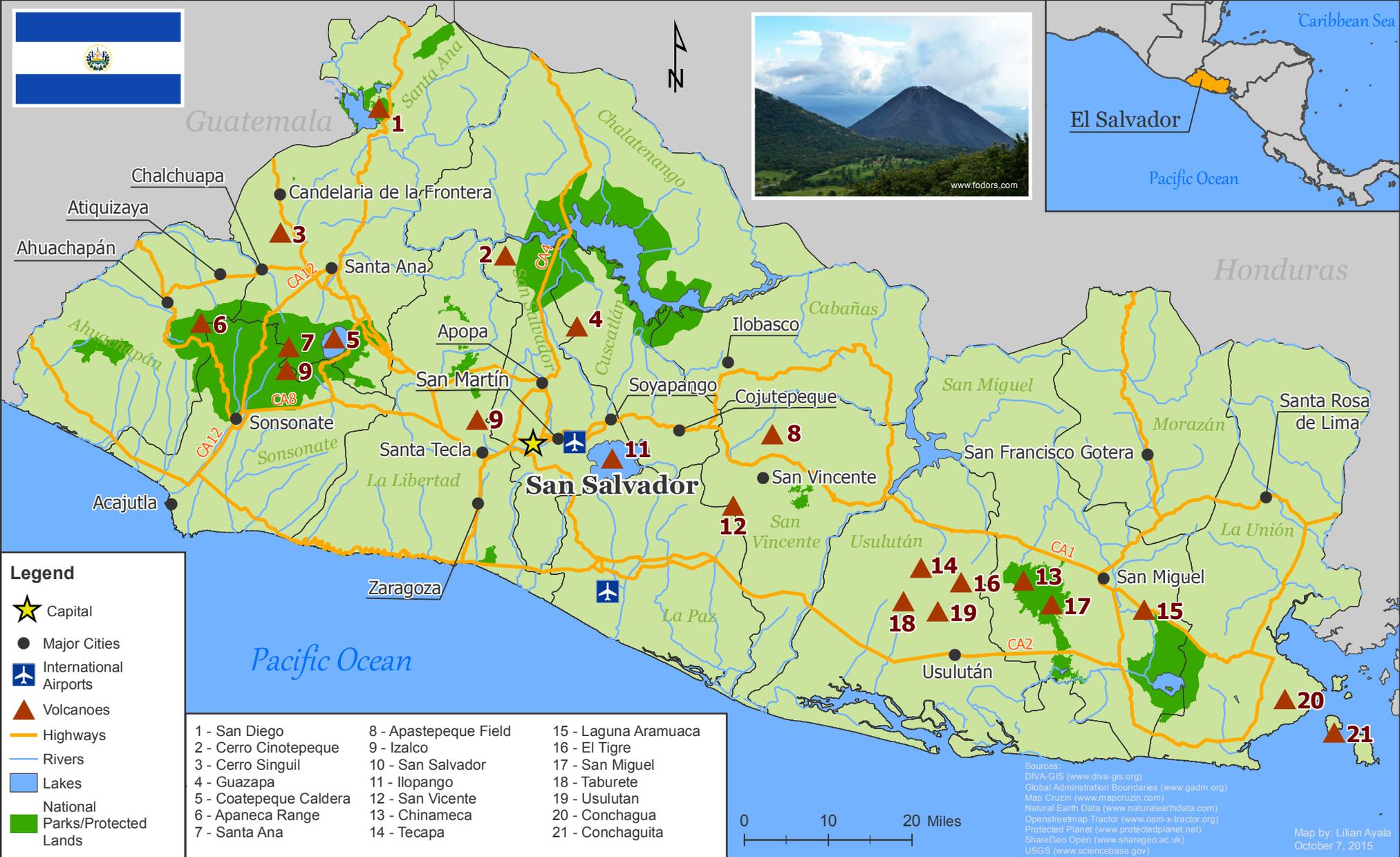
For my analysis, achieving the right data was very difficult to acquire. At first I had acquired data containing all the significant buildings all over India (infrastructure, bus stops, bus stations, schools, colleges etc.), I had to be able to select the colleges and schools and create their own shapefile. Then I had to join the shapefile to the states, and make sure all the educational points intersect a state. Then I was able to create a thematic map that shows which state had the most institution per area.

Then in order to further divest into the analysis, I was able to create a more concrete analysis of the educational institutions based on the state of Karnataka. I was able to find rivers, parks, and population statistics for the main cities in the state of Karnataka. I then created a rating scale that measured each cities amount of educational institutions, as well as its proximity to parks, and how populous the city was.

The rating was as follows; each city that had over 60 schools, received a 3 rating, those with 59-30 a 2 rating, and those with less than 30 a 1 rating. Each city that had 30 parks or more per city, received a 2 rating, those with less received a 1. Those that had a population of over 7 million received a rating of 5, those with 5-7million a rating of 3 and those with less than 2-5 million a rating of 1, and those with less than 2 million a rating of 0.

# El Salvador

Although it's near the size of Massachusetts, El Salvador contains many view points and cultural centers. El Salvador is made up of 14 departments. Within these departments, you'll find either a major city or scenic volcanoes. The 14 stratovolcanoes are major attractions for hikers. Coatepeque Caldera and Ilopango, are calderas formed after an eruption and now famously attract tourists for their picturesque landscapes. The volcanic fields, such as the Apastepeque Field, provided rich soils for coffee plantations. Though El Salvador has gone through a lot of violence in recent years even after the end of the civil war in 1992, there are still many features that attract tourists to El Salvador. Seen below are the volcanoes around El Salvador, major highways, major cities, and departments.



# Dominican Republic

By: Caterina Selman  
October 7th, 2015

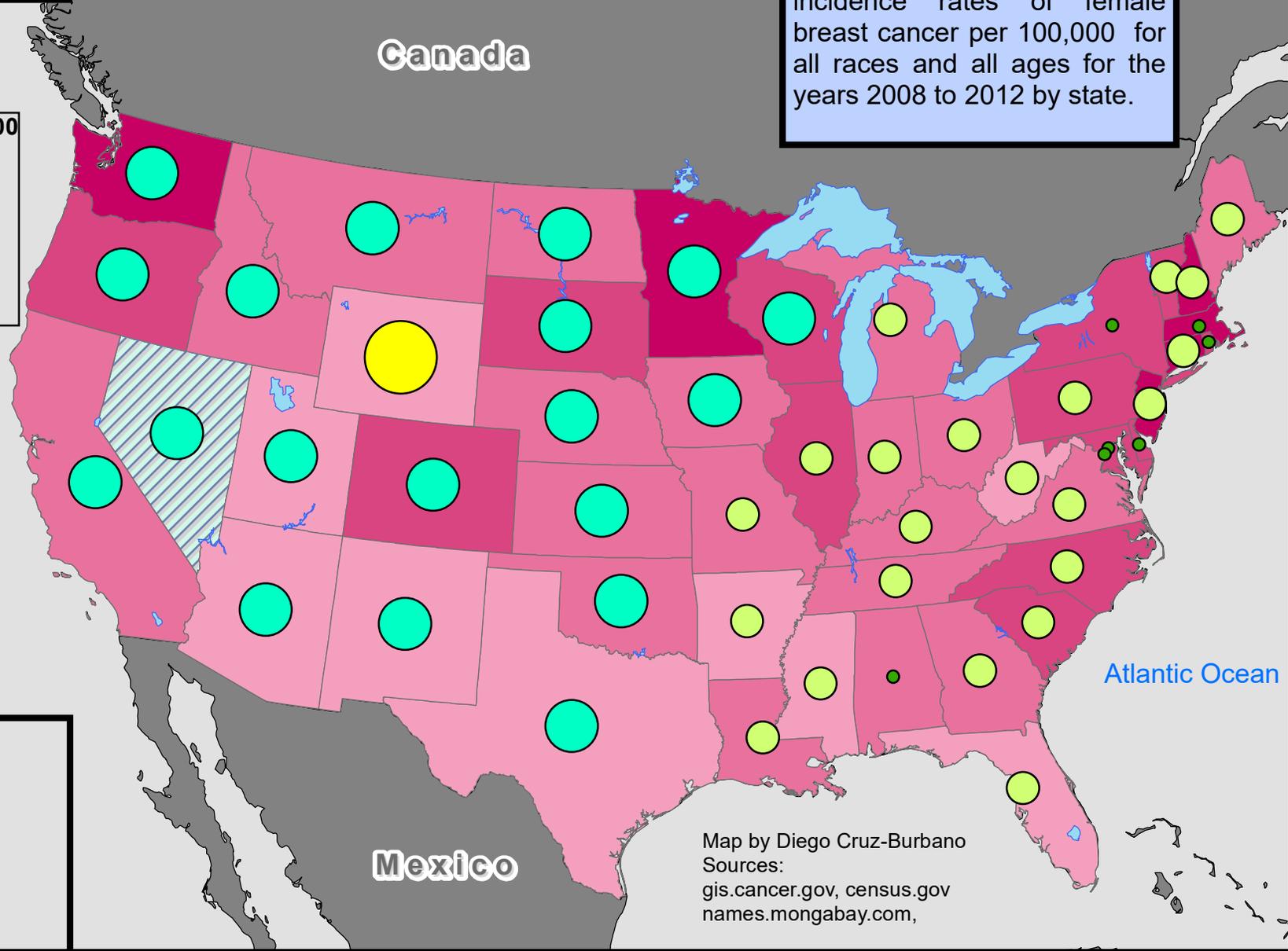
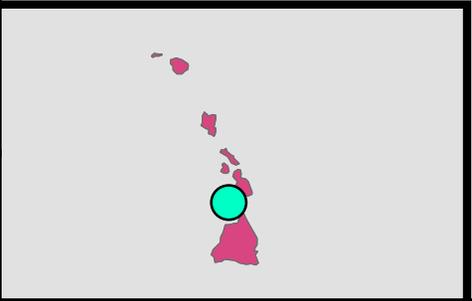
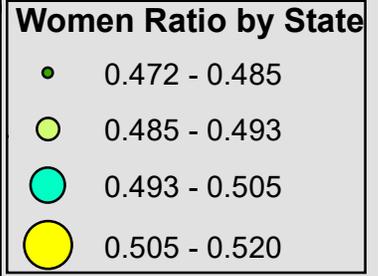
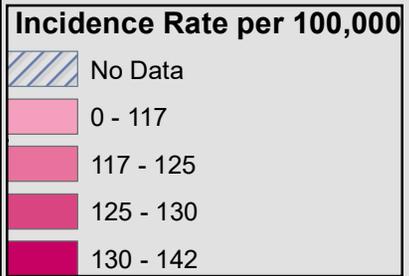


Sources:  
 -Dominican Republic and Haiti country boundaries, DR provinces, lakes, and roads: <http://www.diva-gis.org/gdata>  
 -Dominican Republic cities: <http://www.mapcruzin.com/>  
 -Pictures: Wikipedia, CasaDeCampoLiving.Com, MapsAmerica.dices.Net

-  Capital
-  Cities
-  Main Roads
-  Forests and Parks
-  Lakes
-  Provinces

# Breast Cancer Incidence Rate in the United States (2008-2012)

Breast cancer is the most commonly diagnosed cancer in women. One in eight women will be diagnosed with breast cancer in her lifetime. This map shows the women ratio by state as well as the incidence rates of female breast cancer per 100,000 for all races and all ages for the years 2008 to 2012 by state.



**Mexico**

**Atlantic Ocean**

Map by Diego Cruz-Burbano  
Sources:  
gis.cancer.gov, census.gov  
names.mongabay.com,

# How Clean is Your State?

A Brief Look at Air Pollution in the United States and Potential Causes

Map By: David Soll, 11/18/15



## Legend

North America

## Major Cities

- 1,000,000 and greater
- Gas Power Plants
- Coal Power Plants

## State Pollution Potential

- 1 - 2
- 3 - 4
- 5 - 9
- 10 - 16
- 17 - 33
- 34 - 56

Pollution is a major problem our society is facing today. Many people see the extreme examples of air pollution which can be viewed elsewhere in the world; however, it is also important to consider the quality of our air in the United States. This map attempts to present an idea of air pollution on a state-by-state basis through an index which takes into account the number of major cities each state has and the length of road contained within each state. By graduating this index, the states at risk for pollution can be more easily viewed, in dark red in the case of this map. The locations of coal and gas power stations across the country have then been overlaid on the map to provide a visual relationship. Through analysis of the map it is evident that states with more gas power stations tend to be at a greater risk of air pollution.

Data Source:

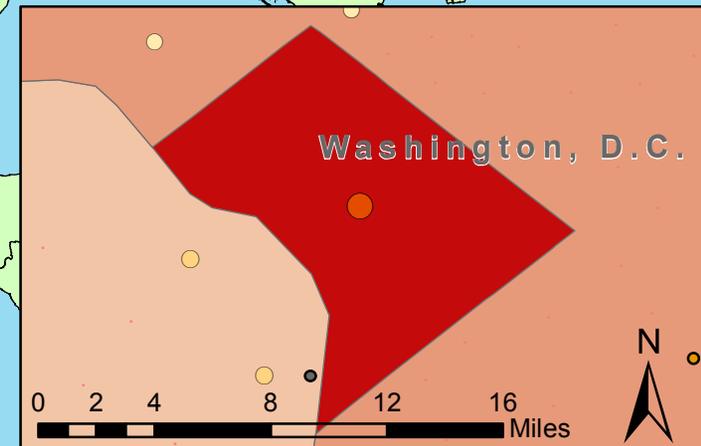
<http://www.cec.org/>

<http://www.fhwa.dot.gov/>

<http://www.arcgis.com/>

<http://cubitplanning.com>

0 155 310 620 930 1,240 Miles



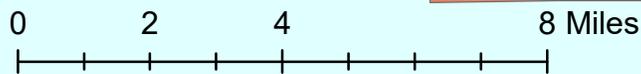
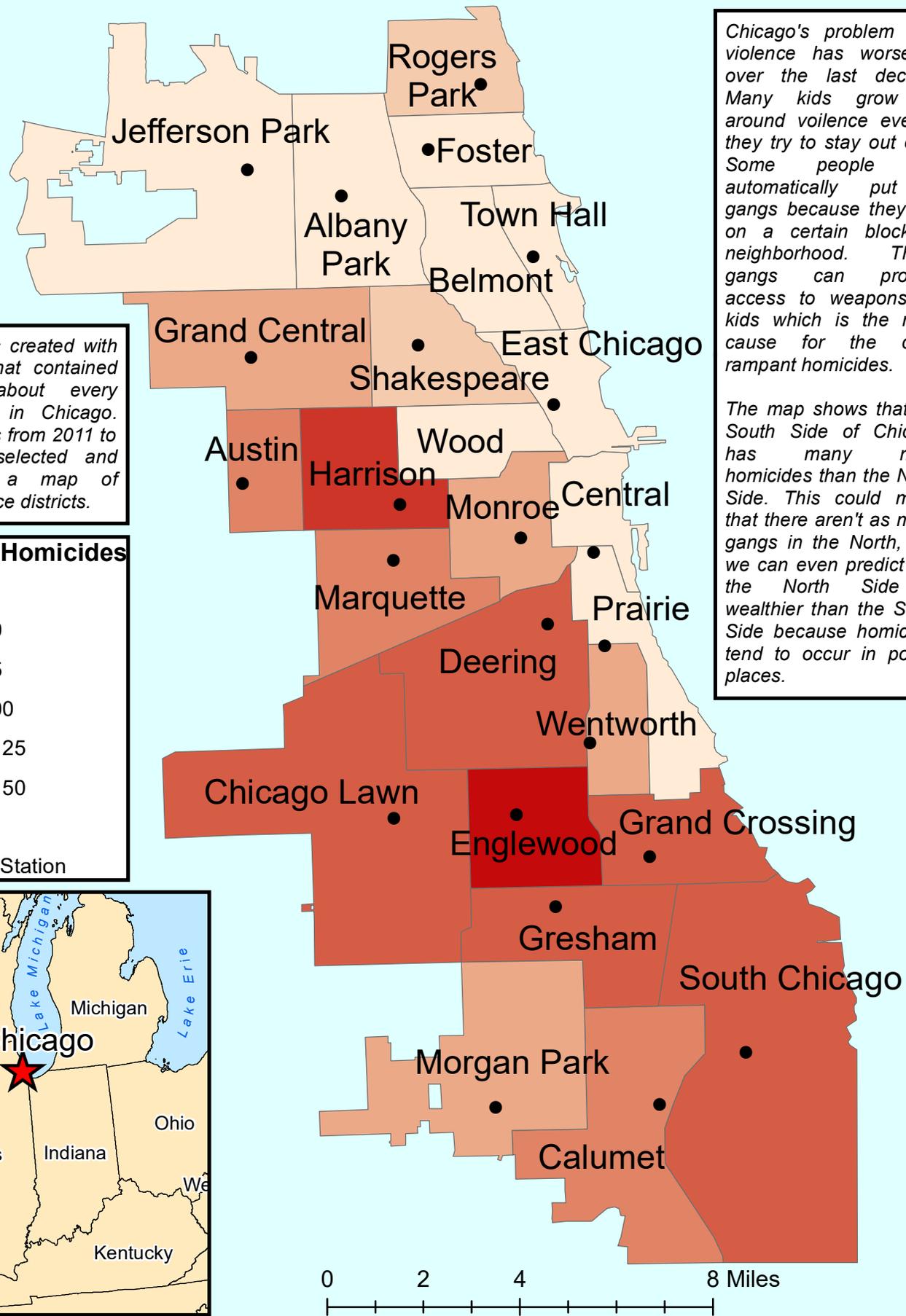
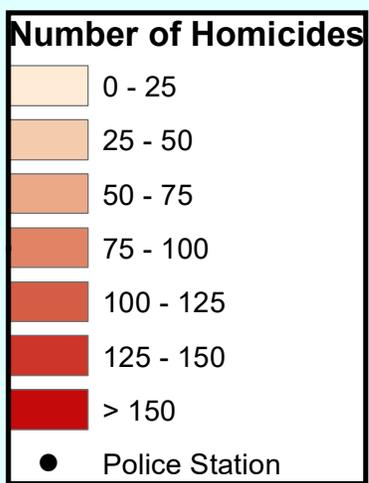
# Chicago Homicides By District 2011 - 2015



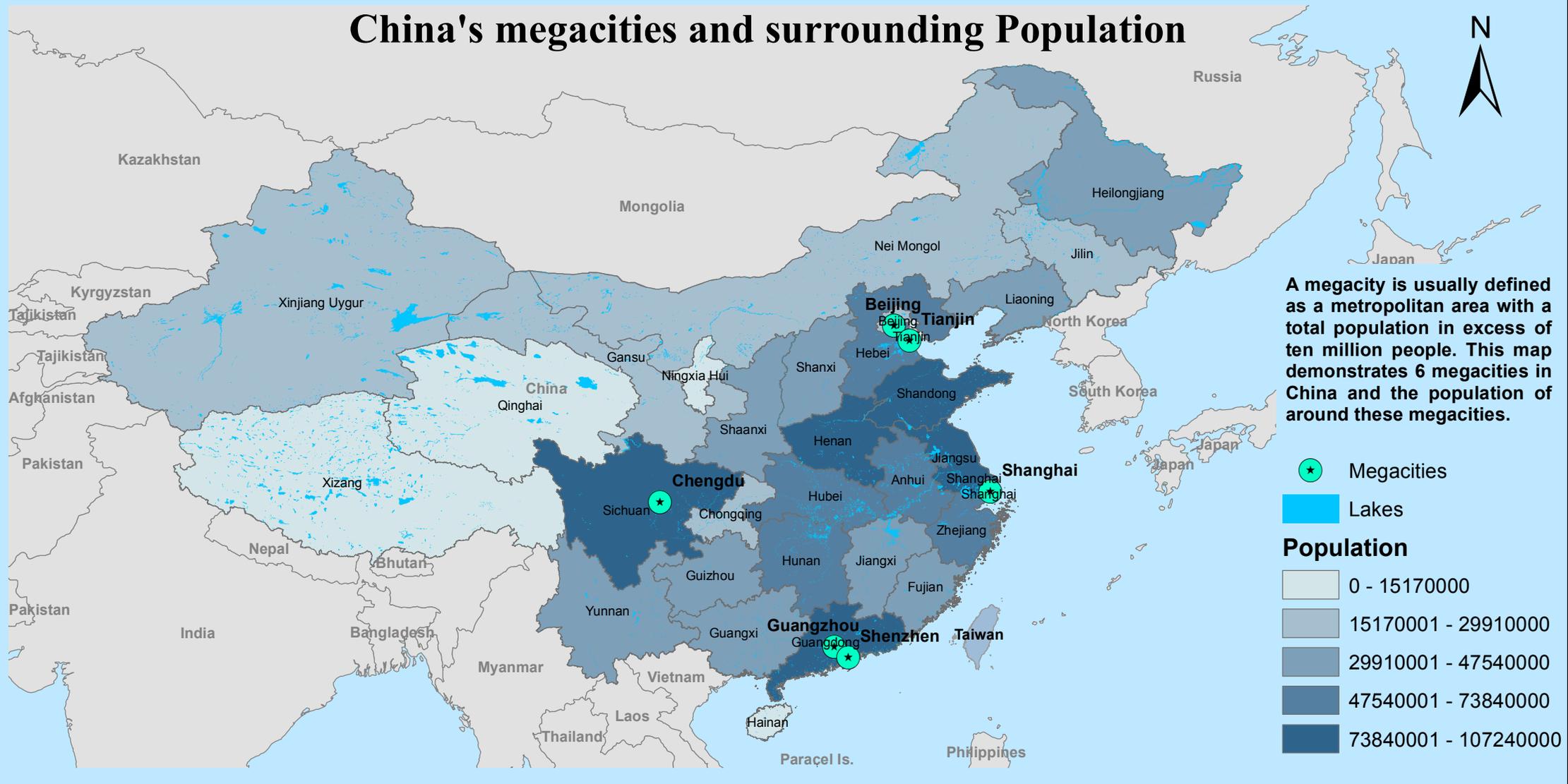
Chicago's problem with violence has worsened over the last decade. Many kids grow up around violence even if they try to stay out of it. Some people are automatically put in gangs because they live on a certain block or neighborhood. These gangs can provide access to weapons for kids which is the main cause for the city's rampant homicides.

The map shows that the South Side of Chicago has many more homicides than the North Side. This could mean that there aren't as many gangs in the North, and we can even predict that the North Side is wealthier than the South Side because homicides tend to occur in poorer places.

This map was created with a CSV file that contained information about every police report in Chicago. The homicides from 2011 to 2015 were selected and joined with a map of Chicago's police districts.



# China's megacities and surrounding Population



Shanghai, the 6th world megacity, the population is 23,416,000. It is a global financial center, and a transport hub with the world's busiest container port.



Beijing, the 8th world megacity, the population is 21,009,000. It is also called Peking, the capital of the People's Republic of China and one of the most populous cities in the world.



Tianjin, the 28th world megacity, the population is 10,920,000. It is a metropolis in coastal northeastern China and one of the five national central cities of China.



Guangzhou, the 10th world megacity, the population is 20,597,000. Located on the Pearl River, near Hongkong and Macau, serving as an important national transportation hub and

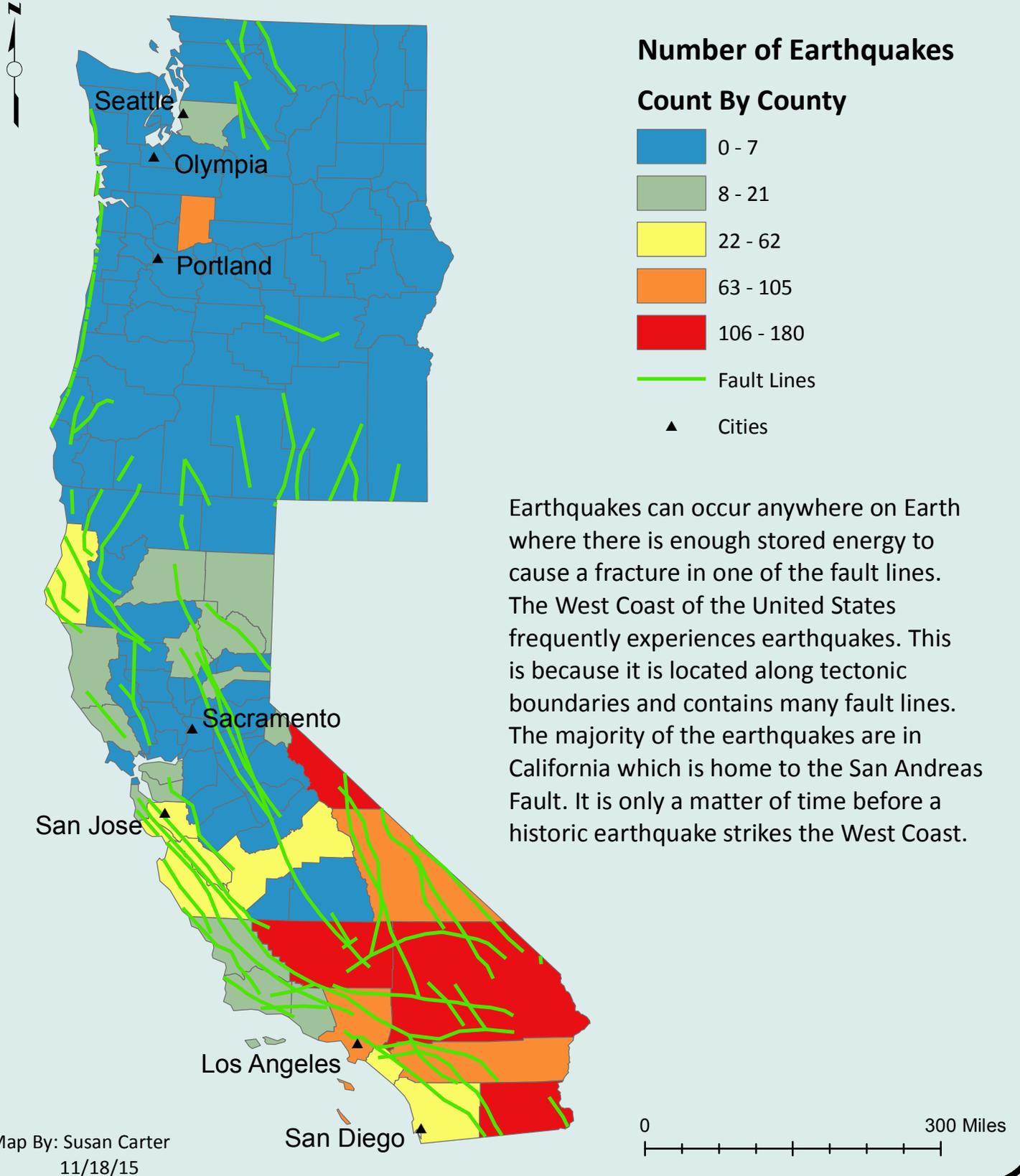


Shenzhen, the 25th world megacity, the population is 12,084,000. It is China's first and one of the most successful Special Economic Zones.



Chengdu, the 31st world megacity, the population is 10,376,000, formerly romanized as Chengtu, is the provincial capital of Sichuan province in Southwest China, as well as a major city in Western China.

# WEST COAST EARTHQUAKES 1769-2003



Earthquakes can occur anywhere on Earth where there is enough stored energy to cause a fracture in one of the fault lines. The West Coast of the United States frequently experiences earthquakes. This is because it is located along tectonic boundaries and contains many fault lines. The majority of the earthquakes are in California which is home to the San Andreas Fault. It is only a matter of time before a historic earthquake strikes the West Coast.

Map By: Susan Carter  
11/18/15

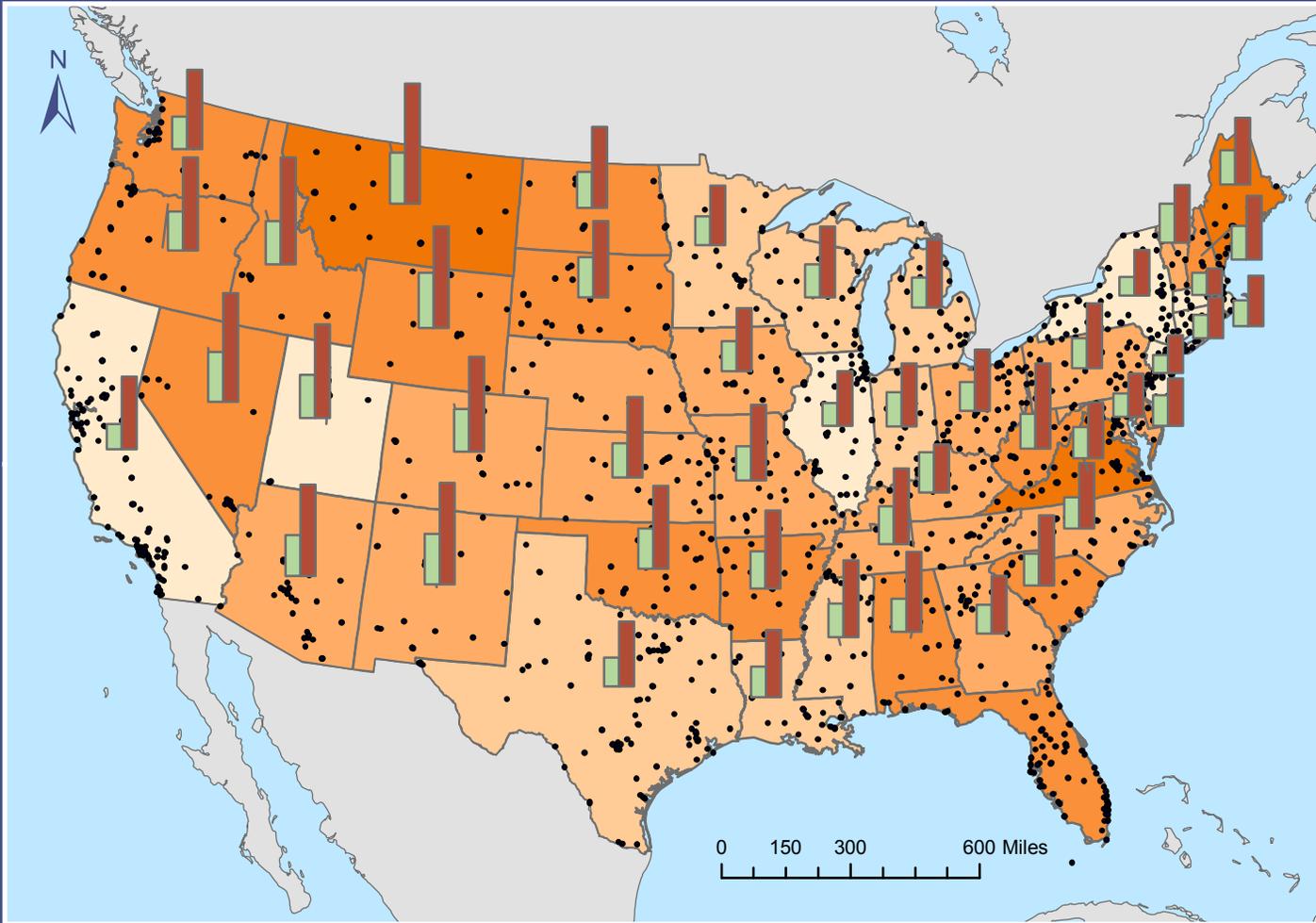
**Data Sources**

Earthquakes: <http://www.mapcruzin.com/natural-disaster-shapefiles/earthquakes-arcgis-shapefile-download.htm>

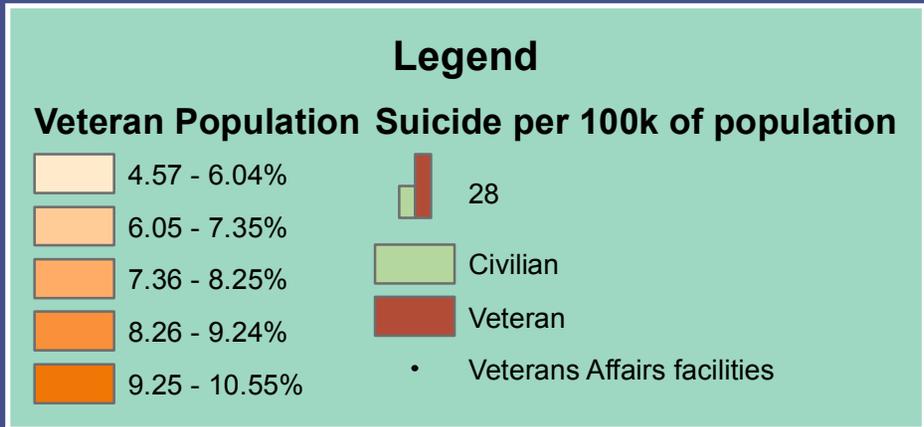
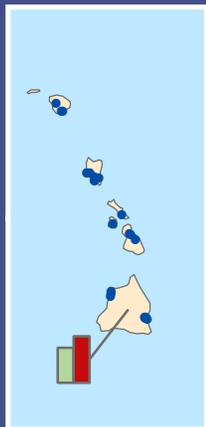
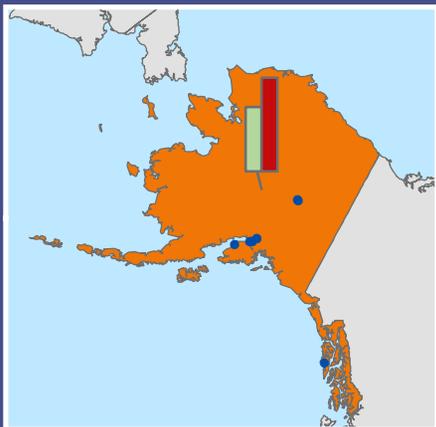
Fault Lines & Cities: <http://www.colorado.edu/geography/foote/maps/assign/hotspots/hotspots.html>

Counties: [https://www.census.gov/geo/maps-data/data/cbf/cbf\\_counties.html](https://www.census.gov/geo/maps-data/data/cbf/cbf_counties.html)

# Veteran Suicide by State



Veterans commit suicide at double or more the rate of civilians, and the rate of veteran suicide is growing far more quickly than that of civilians. This map shows the difference in suicide rates between veterans and civilians as well as the veteran population as a percentage of state population. Veterans Affairs facilities are also displayed. Note that in the northeastern part of the U.S., there is a higher concentration of VA facilities, and veteran suicide rates are marginally closer to civilian suicide rates than in other parts of the country, particularly the western U.S. (Per capita veteran/civilian suicide data not available for Florida or Nebraska.)

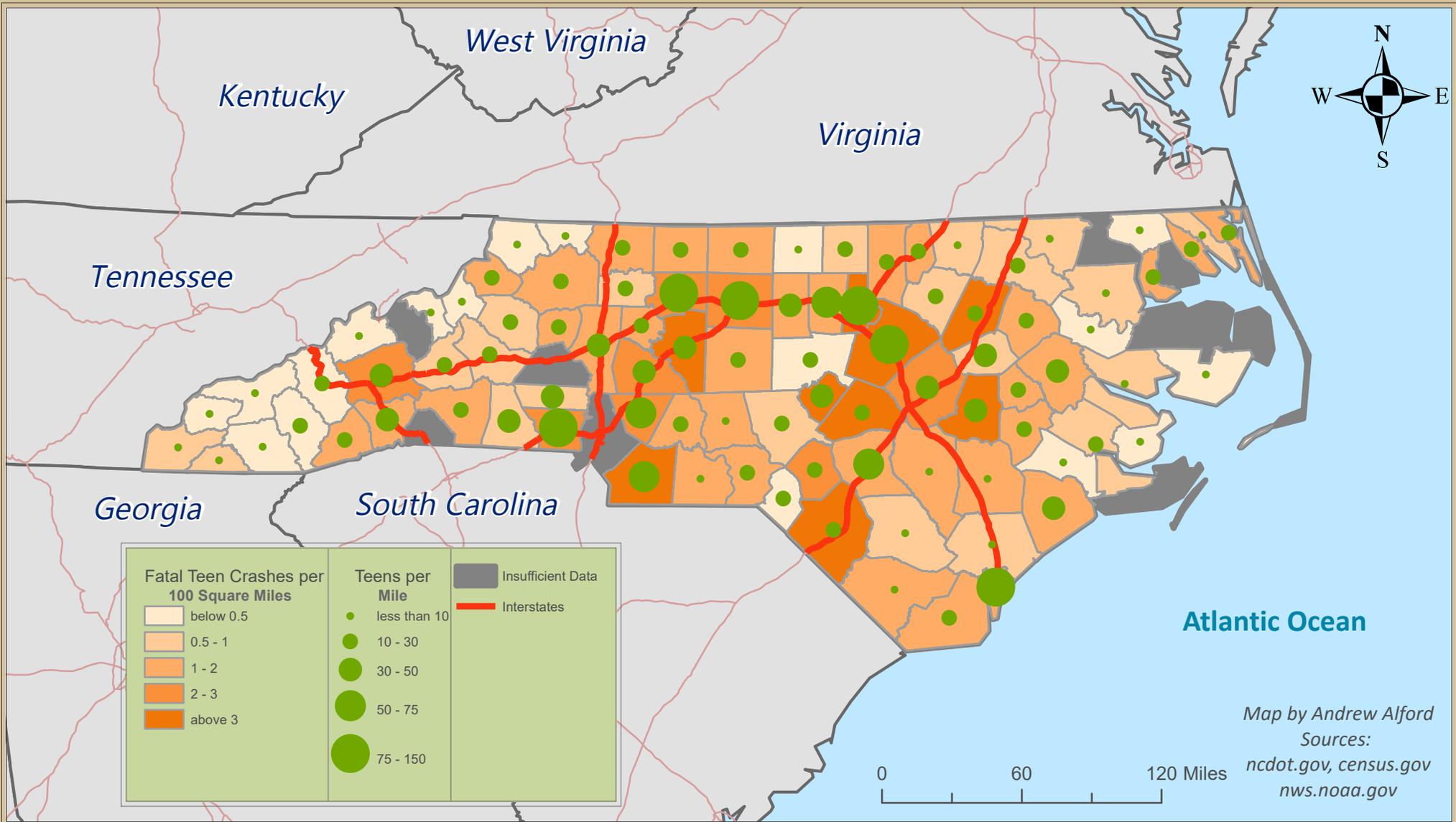


Ellie Black  
 Print Map 2  
 November 17, 2015

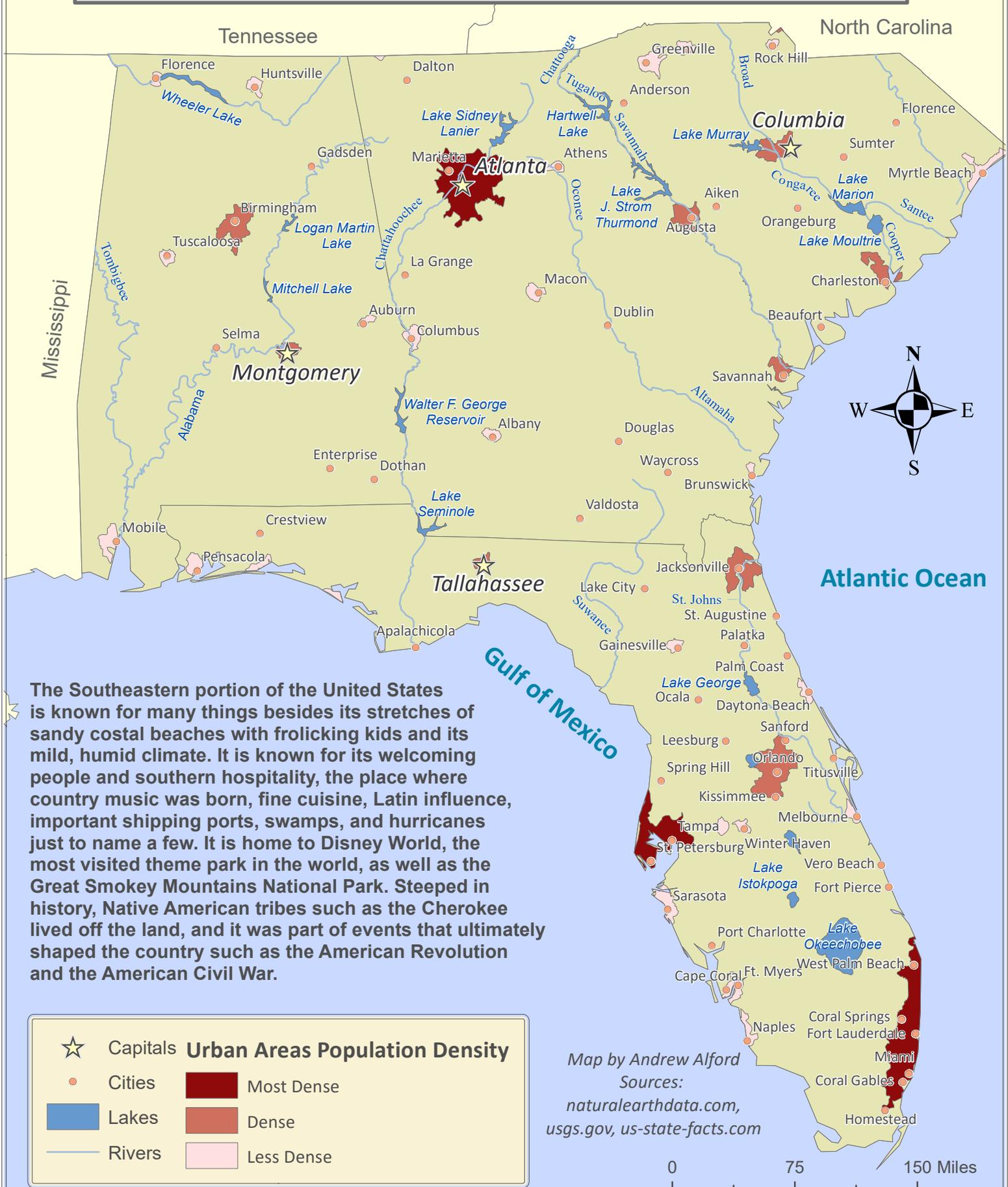
Data Sources:  
<http://www.va.gov/vetdata/Maps.asp>  
[http://www.va.gov/vetdata/veteran\\_population.asp](http://www.va.gov/vetdata/veteran_population.asp)  
<http://backhome.news21.com/interactive/suicide-interactive/>  
<https://www.arcgis.com/>

# Fatal Teen Car Crashes in North Carolina

Many people believe that teen crashes are due to alcohol, use of cell phones, or driving at night. However, as seen in the map, teen car crashes are a function of teen population density and proximity to interstates.



# Southeastern United States



The Southeastern portion of the United States is known for many things besides its stretches of sandy costal beaches with frolicking kids and its mild, humid climate. It is known for its welcoming people and southern hospitality, the place where country music was born, fine cuisine, Latin influence, important shipping ports, swamps, and hurricanes just to name a few. It is home to Disney World, the most visited theme park in the world, as well as the Great Smokey Mountains National Park. Steeped in history, Native American tribes such as the Cherokee lived off the land, and it was part of events that ultimately shaped the country such as the American Revolution and the American Civil War.

☆	Capitals	<b>Urban Areas Population Density</b>
•	Cities	<span style="display: inline-block; width: 15px; height: 15px; background-color: #800000;"></span> Most Dense
<span style="display: inline-block; width: 15px; height: 15px; background-color: #4682B4;"></span>	Lakes	<span style="display: inline-block; width: 15px; height: 15px; background-color: #C0504D;"></span> Dense
—	Rivers	<span style="display: inline-block; width: 15px; height: 15px; background-color: #FFB6C1;"></span> Less Dense

Map by Andrew Alford  
 Sources:  
[naturalearthdata.com](http://naturalearthdata.com),  
[usgs.gov](http://usgs.gov), [us-state-facts.com](http://us-state-facts.com)

0 75 150 Miles