Winter in Wyoming

The State of Wyoming receives 45 - 200 inches of snow per season, ranging from November to May, depending on different area’s elevations, moorises and latitudes. With fairly heavy snow, 28 ski areas, and hundreds of mountains, Wyoming is a perfect State to visit for some winter fun! Known for Skiing, Snowboarding, Dog Sledding, and many more other winter activities, Wyoming is a wonderful winter wonderland.

Data Sourced from:
Geohub Explorer
Western Regional Climate Center
Wyoming State Geological Survey

Map by Ariella Ventura
California is the state with the most billionaires.

<table>
<thead>
<tr>
<th>State</th>
<th>Billionaires</th>
</tr>
</thead>
<tbody>
<tr>
<td>California</td>
<td>124</td>
</tr>
<tr>
<td>New York</td>
<td>93</td>
</tr>
<tr>
<td>Texas</td>
<td>48</td>
</tr>
<tr>
<td>Florida</td>
<td>44</td>
</tr>
<tr>
<td>Illinois</td>
<td>17</td>
</tr>
</tbody>
</table>

Katie Blackwell
12/3/17
Data:
MGIS Data
Public Schools Per California County

Legend

California Counties

Number of Public Schools

- 17 - 116
- 117 - 262
- 263 - 460
- 461 - 1130
- 1131 - 3603

cb_2016_us_state_500k

By Michael O'Mara

December 2nd, 2017

Data Source: www.arcgis.com
There are many ways information can be influenced by the way it is presented. For example, an area could have a low number of crimes reported but who knows what exactly those crimes were. Stealing from a locked car versus homicide are two crimes that should not be counted equally. The information for this map was retrieved from the Atlanta Police Department (APD). Atlanta has 7 zones, including the Atlanta Airport. These zones are divided into beats which are shown on the map. Also on the APD website is crime data from 2011 to the current week. I chose the crime data from 2016, which consists of every location a crime was committed and in which beat. Shown below is the different colors of the beats which represents the total number of crimes committed in each. Next, I divided up the types of crimes into violent and non-violent. Violent consists of assault, robbery, rape, and homicide. Non-violent consists of auto theft, larceny, burglary. Most crimes were non-violent. I chose to show the beats where 25% or more of the crimes were violent by the pie graphs. As you can see there are no pie graphs where there were over 400 crimes in total committed. Next since the ultimate crime is homicide, I showed where all the homicides took place in Atlanta. It looks as if the majority happened where only 200 to 400 crimes happened last year. In the map below you see a band of high crime in the north but only a few homicides. Going toward the Westside there are fewer crimes committed but more of those are violent.
California has a long history of severe wildfires. Currently, they are battling multiple wildfires across Southern California, just outside of Los Angeles. This Map consists of the different Fire Threat levels across California, and then a smaller inset map shows the Fire Threat levels around Los Angeles.

The Fire Threat level is determined through a variety of factors. Population of the area, types of vegetation, average precipitation, average wind speed, and overall fire frequency are all factors used in determining the level of Fire Threat.

Fire Threat Around Los Angeles
This map shows the percentage of the population that has health insurance. The population comes from the individual polygon demographics from 2015. Each polygon has its own respective percentage. Lower percentages are shown as green, with higher ones as red.

The inset map displays the Metro Atlanta area as a star, with the state of Georgia highlighted within the contiguous United States.

A Dissolve action was attempted, but the percentages are not the same, so this did not work. Ideally, if two or more polygons next to one another are the same color, there would be no internal boundaries.
Transport in South Korea and North Korea:

**North Korea**: The Korean State Railway is the only rail operator in North Korea. There are only two airports in North Korea.

**South Korea**: South Korea has mainline railway lines and rapid transit system. Incheon International Airport has been selected as the "Best Airport Worldwide" for four consecutive years since 2005.
Sexual Transmitted Diseases (STDs) are diseases that can be transmitted either through intimate contact or a simple contact with the affected area. Currently, there are more than 20 types of sexual diseases that can affect both men and women, and that represent a serious threat to people. For example, Herpes is a disease that cannot be cured; however, it can be treated. There are different ways that you can protect yourself against these diseases and one of them is knowing the people around you. For more information visit: https://www.cdc.gov/std

This map shows the states and their rate of disease per 100,000 people. Also every state has a number that represents the ranking of STDs (being #1 with higher cases) based on the Chlamydia and Gonorrhea average per state. This map also has a pie chart that shows the relationship of STDs by gender.
PLANE RUNWAYS PER COUNTY IN GEORGIA

Georgia Counties

Number of Runways

1 - 4
5 - 10
11 - 22
23 - 46
47 - 76

Map by Harrison Lyle
December 3, 2017

Data source: Atlanta Regional Commission, Georgia GIS Clearinghouse, United States Census Bureau
Arizona Counties Population Change from 2000 to 2015

This map shows Arizona counties’ population percentage change from 2000 to 2015. Overall, Arizona had a 363.19% increase in 15 years. It seems like more people want to move to the west coast, the desert land!

The greatest population change are in the counties with Phoenix and Tuscon, where the large universities are.

Map Projection: NAD 1983 StatePlane Arizona Central FIPS
Census Data from www.catalog.data.gov
State of Georgia Obesity Rates

Rank of Adulthood Obesity in the US: 20th
Rank of Childhood Obesity in the US: 17th
Georgia Population Obesity Rate: 31.4%

Dataset Provided by the CDC at: www.cdc.gov/diabetes/data/countydata

Map Created by: Kiersten Martin 12/4/2017
This data is provided by the State Agency Waste Management annual disposal report for the years 2011-2014. With the population of our world ever increasing, we must be mindful of not only how we manage our waste, but how much we produce. This map aims to educate the public on this topic of growing importance.
Major League Soccer, or MLS, is currently in the process of expanding from 23 to 28 teams. Currently, there are 13 different cities competing to be awarded one of the five franchises. The current US MLS cities and expansion cities (in bold) are found on this map, which compares the diversity of the different cities. The percent minority displayed is percentage of the population that is non-white. Since soccer is such a global sport, MLS wants to award cities with diverse populations. Indianapolis is the only expansion city with a minority percentage under 35%, and is eliminated from the running. The expansion city with the highest diversity percentage is Detroit at 97%.
Tourism generates new career opportunities for locals, both through direct employment within the industry and indirectly in sectors, such as retail stores and transportation divisions. As consumers spend their income on various services, it leads to the "multiplier effect," which creates more jobs. The tourism industry provides opportunities for small-scale business enterprises, which is important in rural communities, as well as generate extra tax revenues for funding schools, housing, or hospitals. U.S. Department of Commerce states that: "Tourism encourages the preservation of traditional customs, handicrafts and festivals that might otherwise have been allowed to wane, and it creates civic pride." Counties within close proximity to each highlighted road in the map could benefit from publicizing their respective road and, hopefully, accrue more income to improve quality of life for the locals.

Map by Vincent Harvey 12/03/2017
Sources: ArcMap, Census Bureau, U.S. General Services Administration, Montana Government, U.S. Department of Commerce
The Economic Impact of a Volcano Eruption on Hawaii Island

Overview
This map serves to determine the economic impact of a volcanic eruption on Hawaii Island. We examine the two largest crops of Hawaii island: Sugarcane and Coffee. The idea is that if an eruption were to occur, the lava would destroy everything in its path. So we examine the Lava Flow Hazard area to determine what crop farms would most likely be destroyed in the event of an eruption, and what the economic impact would be.

Analysis and Results
After intersecting the two highest hazard rating categories (1 and 2), I found that there are 411 acres of coffee farms, and 2,154 acres of Sugarcane farms that are located in areas most likely to be destroyed by lava flow in the event of a volcanic eruption. The following is the economic analysis of Coffee and Sugarcane loss due to a volcanic eruption:

Coffee:
From the USDA National Agricultural Statistics Service I found that, on average, 1,400 pounds of coffee are produced per acre each year. This gives us $1,400 \times 411 = 575,400$ pounds of coffee that would not be sellable in the event of a volcanic eruption. From online wholesale distributors, I found that this coffee sells, on average, for $14 per pound. Thus we have an estimated economic loss of $(575,400 \text{ lbs}) \times ($14 \text{ per lb}) = $8,055,600$.

Sugarcane:
In the same manner as coffee, I examined the economic impact on Sugarcane as well. From the USDA National Agricultural Statistics Service I found that, on average, Hawaii produces 27 tonnes of Sugarcane per acre. Giving us a total annual production of $(2,154 \text{ acres}) \times (27 \text{ tonnes}) = 58,158 \text{ tonnes}$ of Sugarcane per year. From the same data source, I found that the average price of Hawaii Sugarcane in 2016 was $43.10 per ton. Thus, lava flow from a volcanic eruption would result in a loss of revenue of $(58,158 \text{ tonnes}) \times ($43.10/\text{ton}) = $2,506,610$. 
How is Georgia population distributed depending on the wetlands and streams status

This map shows the distribution of the population in Georgia based on the status of wetlands and streams. We can see that wetlands and streams with the approved or pending status are located in places that have the largest population.

Map by: Akissi Daisy Kouame
Date: 12/04/2017
Data source: Georgia GIS Clearinghouse

Population
POP2000
- 5000
5001 - 15000
15001 - 30000

Wetlands_and_Streams status_num
- Terminated
- Approved
- Pending

USA States
Japan is a developed country in Asia. It is not big but has very convenient transportations. It has a long coastal line, so there are some big ports in Japan. The international airports in Japan are also shown. The most famous thing is the railway system, especially the Shinkansen. The railways can almost bring you to everywhere in Japan. It is still easy for you to travel in Japan without a car. The right two small maps show the two biggest cities in Japan, Tokyo and Osaka. They are beautiful and energetic cities and they are worth to travel.

Coordinate System: JGD_2011_Japan_Zone_1
Source: Geospatial Information Authority of Japan

Map by Xinyi Zhang
The United States: Land Protection and Management

The United States is separated into five regions by the US Geological Survey in order to categorize and critique forest and fauna management. This map uses this to rank the order in which each region is doing best in terms of overall forest retention.

The southeast is ranked number 1 in forest coverage and retention, in spite of high forestry loss percentages in its states. The state of Georgia, for instance, is one of the highest in the nation for forestry and timber but still retains high amounts of tree coverage.

The Northwest is known for the controversial Northwest Forest Plan (NWFP) adopted in 1994 by the Clinton Administration. While originally for the purpose of protecting the spotted owl, under these series of federal policies it came to broadly cover these topics:
- Never forget human and economic dimensions of the issues
- Protect the long-term health of forests, wildlife, and waterways
- Focus on scientifically sound, ecologically credible, and legally responsible strategies and

One element of reproductive health influenced heavily by societal factors is contraceptive use. Catholicism, which is common in South America, opposes this practice. In this data, contraceptive use is defined as the percentage of women aged 15 to 49 years who use (or whose sexual partner uses) a modern method of contraception.

These methods include female and male sterilization, injectable and oral hormonal pills, intrauterine devices, implants, diaphragms, condoms, and emergency contraception. Pictured to the left is a free condom dispenser in São Paulo, Brazil.

According to the NY Times, 65.9% of High School grads enrolled in college the following year. Out of this percentage, many of these high-school students experience the battle of picking the most acclaimed school based off many personal metrics (Major, Size, and Location).

This thematic map allows qualified students to understand which states have the most Top 50 universities as well as what are the best schools in each region. The darker shaded states (CA, MA) have 8 to 9 Top 50 schools, while the lighter shaded states (WA, MN) have 0 Top 50 schools. By using this map, students will be able to understand which locations around the US have the best schools. This map also shows the Top 3 schools in each region with their national ranking.

Northeastern schools are known for Ivy League schools. The Ivy League was coined in 1937 to describe football competition at ivy-covered northeastern universities. Today it represents eight prestigious private universities that admit less than 20 percent of their applicants and require an academically rigorous curriculum.

Midwest schools are known for their proximity to major cities. University of Chicago and Northwestern are located in Chicago while Wash U. is located in right outside downtown St. Louis.

Popular western schools are located in California due to their proximity to the Pacific Ocean. The highest ranked school in California is Stanford University. It was founded in 1885.
According to the CDC, Lung cancer is the leading cause of cancer death and the second most common cancer among both men and women in the United States. The most important thing you can do to lower your lung cancer risk is to quit smoking and avoid secondhand smoke.

West Virginia, Kentucky, and Arkansas are the top 3 states with the highest smoking rates, with 24.8%, 24.5%, and 23.6% of the adult populations respectively. Utah, California, and Hawaii are states with the lowest smoking rates, with 8.8%, 11%, and 13.1% of the adult populations respectively.

*Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population.

Sources for...
Lung Cancer Incidence Rates: https://www.cdc.gov/cancer/dcpc/data/state.htm
Smoking Rates: https://www.cdc.gov/statesystem/cigaretteuseadult.html
States and Countries: usdata.gdb in MGIS
Mary Mover doesn't settle. She works remote and decided to take advantage of the situation. Every three months, she throws a dart at a map and decides where to move. Next destination? Wake County, North Carolina.

She must now decide on the perfect township. Ideally, each location will have at least 2500 acres of park space so she can work outside but close to home, a library or two to keep her mind sharp, and a farmer's market to feed her millennial stomach. It is time to find Wake County’s most eligible Township.
This map presents the state of Alaska and shows some of its resources. Alaska is the largest state of the United States and has a lot of natural resources. It is considered one of the most chosen places for adventure in the United States.

Sources of data: Alaska State Geo-Spatial Data Clearinghouse

Map by Akissi Daisy Kouame
October 16, 2017
Atlanta has a rich sports history, with professional football, basketball, baseball, and soccer teams, as well as two D-1 colleges. The venues include the oldest on-campus NCAA stadium, an Olympic Ceremony host, and two of the world’s newest stadiums opened in 2017 for a combined $2.3 billion. Look around the map to locate where you can see your favorite team play.
On June 15, 1904, the City of Atlanta purchased Piedmont Park and extended its city limits north to encompass the park as well as several surrounding neighborhoods. Since the purchase, Piedmont Park and the nearby areas have become the heart of community festivals, events and gatherings.

Data Sourced from:
- Atlanta Department of City Planning
- Atlanta Regional Commission
- Fulton County Government
- Data.gov
- Piedmont Park Conservancy

Map by Ariella Ventura
October 16, 2017
This map aims to help make college and university students in Boston aware of the Public Libraries, Police Stations, and Community Pools located near each major university!

Legend
- Police Stations
- Public Libraries
- Pools
- College or University

Map by: Langdon Hollingsworth
Located in the northwestern United States, Downtown Portland is one of the most accessible bike and transit areas in the country. This map shows just how extensive the bicycle network is in Downtown Portland. All streets have some type of bike infrastructure. There are also Bike Boulevards only for bikes and pedestrians, as well as low speed streets where bikes have priority. If coming into the city for the day, one could come by transit and there are plenty of places to rent bikes.
The NPU system was established in 1974 by Mayor Maynard Jackson to provide an opportunity for citizens to participate actively in the Comprehensive Development Plan, which is the City’s vision for the next 5, 10, and 15 years. The residents of NPU-N enjoy a tradition of civic participation and activism that has largely developed through the neighborhood and community organizations. NPU-N encompasses seven neighborhoods and one area: Cabbagetown, Candler Park, Druid Hills, Inman Park, Lake Claire, Poncey Highland, Reynoldstown and Little Five Points.

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Public Transportation in Melbourne, Australia

Worldwide, poverty and education go hand in hand. Education is a huge factor in social mobility. Philadelphia County shows great disparity in regards to these two socioeconomic factors. As defined by the American Nutrition Association, a food desert is an area where there is no supermarket within a mile. The significance of food deserts is that they often exist in impoverished areas. When children lack the proper nutrition to learn, they cannot focus in school, which further disrupts social mobility. In densely populated cities, lacking the resource of a supermarket can mean that provided food is substandard.

The distribution of public schools within Philadelphia County shows the disparity of education versus food security. The Southwest corner is densely populated with public schools, and there are few areas that are food insecure. Both of these factors are positive and the children living in this area have a greater chance at success. Inversely, the northeast corner of Philadelphia County shows a large area of no food access, and schools in this area are comparatively sparse.
This map visually depicts how there is a surprisingly strong location-based correlation between freeway systems and rail infrastructure with major cities throughout the United States. This can be attributed to the fact that major cities have high populations of individuals and thus need increased means of transportation to move these individuals in and out of the city. The two images on the left directly illustrate this principle as there are significantly more freeway systems near Philadelphia, New York, Washington, and Baltimore than there are in areas without major cities.
The city of Chicago is the 2nd most-visited destination in the United States with an average of 45 million visitors annually. The great city maintains this trend by possessing many efficient and reliable public transportation systems.

For moving within the city, the majority of the population uses the Chicago Transit Authority (CTA). As the nation’s 2nd largest public transportation system, CTA provides both rides through rail and bus. To connect to the outlying suburbs from downtown, passengers look to ride on the Metra Commuter Rail or drive on one of the many major connecting highways. The Metra connects suburban living to the heart of Chicago in a matter of minutes.

The map illustrates the different routes civilians can choose to travel within or out of the city.
France is known for its cheeses. The map shows the areas that produce either Brebis (sheep), Chèvre (goat), and Vache (cow). The only type of cheese produced near Paris is Délice de Saint-Cyr.
Fun Fact:
The Grand Canyon National Park is one of the Seven Natural Wonders of the World, and is the only one located within the U.S.

Sources:
The fall season is when most high school seniors are deciding where to go to college. Students are looking for large universities with high rankings, it is important to know where these schools are and how each state ranks in terms of higher education in order to make an informed decision. The large map shows the entire United States with these categories. The two smaller maps show the lowest ranking region with schools and the best state with the most schools.
The state of Maryland has 55 accredited, degree-granting colleges and universities, most of which are a part of the University System of Maryland. These universities are responsible for around 370,000 students of whom 76% are Maryland residents. Of those 55 institutions, 28 are shown on the primary map as public and private four-year colleges and universities. The majority of these postsecondary institutions are located within the Baltimore county district as shown by the complimentary maps. Baltimore is home to some of the best colleges in the nation, including Johns Hopkins, University of Maryland-Baltimore County, and Loyola University. Within the Baltimore region alone, there are six public colleges and six private colleges, excluding seminary schools.
SouthJiangsu is the part of Jiangsu Province on the South of Long River. Shanghai is on the East of it. SouthJiangsu and Shanghai area is one of the most rich area in China. This map shows the GDP of these cities and the facilities, such as Airport, Railroad, Highways and Gas Pipelines. It is obvious that the city has more facilities has higher GDP. The convinient transportation helps the economic development.

Changzhou is my hometown. It is a small city in SouthJiangsu. Compare to other cities in this area, Changzhou has a relatively lower GDP. However the convinient transportation still make this city a rich and livable city.

Map by Xinyi Zhang
Transportation Distribution in China (Airport, Railway, High Speed Railway)

Coordinate System: WGS 84
Datum: World Geodetic System 1984
Units: degree

The city on the left (Qinghai) is from the western regions. The city on the right (Guangzhou) is from the eastern ones. Clearly, we saw that Guangzhou, a city with higher GDP, has much better access to intercity transportation compared to Qinghai, a much bigger but less populated city.

China's eastern coastal region is more economically developed than the central and western regions. Most of China's transportation is concentrated along the coast. China's major cities of Beijing, Shanghai, Guangzhou, Shenzhen, and Hong Kong are all in the east. Cities that are located near the coast are easy to travel.

Map by Yijun (Emma) Wan
Bull sharks are aggressive, common, and usually live near high-population areas like tropical shorelines. Many experts consider bull sharks to be the most dangerous sharks in the world. Historically, they are joined by their more famous cousins, great whites and tiger sharks, as the three species most likely to attack humans.

(Source: National Geographic | Bull Shark)

Younger Bull Sharks, due to warmer waters and prey location, stay closer to the coast. These younger sharks have less experience with humans, and are less cautious and more aggressive in their behavior.
**Countries of the Asia Pacific**

Japan is known for having some of the most extensive and efficient train lines in the world. This is indicative of a trend overall in East Asia with regards to implementing vaste transit systems.

Indonesia is the world largest producer of palm oil in the world and this mass export is a significant portion of Indonesia’s economy. As such, in order to keep up with the large production of a single cash crop, slash and burn tactics are...
The City of Atlanta is divided into 12 districts. Registered voters in each area vote for their district's Council Member. Voters across the city vote for 3 at-large Council Members and a City Council President. Local elections are on November 7, and transportation is one of the key issues.
Heart Disease & Fast Food In America

Although several medical experts have warned about the detrimental effects of fast food on the body, this map shows little correlation between fast food restaurants in an area and its heart disease mortality rate. Enjoy a guilt-free McDouble!
Miles, Baby Driver, is back out of jail and needs a way to get cash quick.

He has decided to set up a few heists to rob banks in the neighborhoods of Washington D.C.

He has narrowed his area of interest to the Cluster 6 neighborhoods: Dupont Circle, Connecticut Avenue/K Street because of the high density of banks and the low density of police stations.

The heists that take place are dependent on the best driving escape route from the neighborhood cluster. Once out, his driving savvy will take over and get him to safety.

Baby wants to use major roads to escape the neighborhood cluster quickly. Ideally, he will also avoid the police station and locations with traffic cameras so he and his car are not exposed.

Now for the big question: which banks will he set his eyes on and how will he escape the neighborhood?
Rhode Island is a very diverse state that has many beautiful and interesting places to visit. It has a long interconnected trail around the state that represent the perfect opportunity for people who enjoy the outdoor recreation or just want to spend time with the family. The state is increasing its economic capacity with enterprise areas that incentive business owners to invest in the state. Moreover, it counts with several marinas that are capable to hold small and big size boats and many correctional institutions in order to increase public security.

Reference: http://www.rigis.org/
The Tail of the Dragon is one of the most illustrious roads in the United States. The Dragon begins at Deals Gap (Mile 0) on the Tennessee/North Carolina state line of US Route 129. With 318 curves over 11 miles, the Dragon offers plenty of challenges and exciting moments for those who venture through it. After surviving the Dragon, there are several sites in the area to visit, including: Nantahala National Forest, Great Smokey Mountain National Park, Calderwood Dam, and Cheoah Dam (as seen in the movie, “The Fugitive”). The Tail of the Dragon offers plenty of excitement and opportunities for car enthusiasts and travelers alike. Don’t forget to get your picture taken with the metal dragon at Deals Gap and make sure your vehicle parts are not added to the Tree of Shame adjacent to the dragon.

Sources: USGS Census Bureau, U.S. General Service Administration, ARC GIS, Tennessee State Government

Map by Vincent C Harvey