Geography
340/540: Cartography
Geographic Information System (GIS):
Producing Thanksgiving Dinner

Sweet Potato Production in the Continental United States

Pumpkin Production in the Continental United States

Cranberry Production in the Continental United States

Turkey Production in the Continental United States
PLAYING THE MARGINS

As in 2008 Barack Obama succeeded in his presidential quest by winning contests in the nation's densely populated metropolitan areas, while his opponent gained from suburban, exurban and rural parts of the country. When applied to the more than 3,000 counties, Tuesday's vote data reveals a political map of nearly flat, red Republican territory punctuated by blue, Democratic spikes. Here's a look at how this geopolitical reality resulted in the president's re-election:

MARGIN OF VICTORY BY COUNTY

Total votes each candidate won over the other:
- Obama victories
- Romney victories

A county's height indicates the victory margin size.

UPPER MIDWEST

The one big red county in Wisconsin is the Republican stronghold of Waukesha Co., which helped make the state a toss-up this election. Otherwise, population centers here were solidly behind Obama.

- Kane Co. (Chicago): 179,357
- Door Co. (Green Bay): 131,930
- Dane Co. (Madison): 127,012
- Marinette Co. (Oshkosh): 120,000
- St. Croix Co. (River Falls): 119,000

NEW ENGLAND

This reliably blue corner of the country delivered an almost completely solid Democratic sweep, except for 5 counties (three in Romney's "back yard" of New Hampshire).

- Hillsborough Co. (Manchester): 154,000
- Middlesex Co. (Boston area): 191,000
- Kings Co., N.Y. (Brooklyn): 199,000
- Erie Co. (Buffalo): 97,432
- Philadelphia Co.: 640,011

EAST COAST METRO

The two New York counties of Kings (Brooklyn), New York (Manhattan), Queens and Bronx, are all among Obama's top 20 biggest victory margins. So is Philadelphia and Prince George's County, Md.

- Queens Co. (New York City): 296,000
- Kings Co., N.Y. (Brooklyn): 199,000
- Erie Co. (Buffalo): 97,432
- Philadelphia Co.: 640,011

SOUTHERN FLORIDA

Though still too close to call as of Wednesday afternoon, Florida's geopolitical trend continued with Republican strength in the panhandle and center and a large Democratic presence in the south.

- Broward Co.: 199,000
- Miami-Dade Co.: 304,002
- Dade Co.: 304,002

Washing.t: (Seattle) 216,391 more votes than Romney

WEST COAST

As usual, the three west coast states, and specifically, the counties on the coast, delivered a huge chunk of Obama's electoral votes, led by Los Angeles County (where Obama had his highest margin of victory). Other major metropolitan areas helped the president dominate the region.

- Maricopa Co., Arizona: Romney's biggest margin of victory: 124,076
- Alamada Co. (Oakland): 231,790
- Los Angeles Co. (Obama's biggest margin): 195,000

MOUNTAIN HIGHLIGHTS

More than $20 million in Democratic advertising (just over half of what Republicans spent there) helped Obama in Colorado, particularly in and around Denver. A strong showing in the Albuquerque area resulted in his win in New Mexico.

- Maricopa Co., Arizona: Romney's biggest margin of victory: 124,076

A TIGHT RACE IN TEXAS

One of the closest races in a large metropolitan area was in Harris County, Texas, where Houston is located. Obama beat Romney 585,452 to 564,865 for a victory margin of just 20,587.
Atlases:
The journey to water

Average time spent in each trip going to the water source, fetching water and coming back 2004

- **less than 10 minutes**
- **10 – 19 minutes**
- **20 – 29 minutes**
- **30 – 39 minutes**
- **40 – 49 minutes**
- **no data**
Topographic Maps:
Evidence of the Recession of Davidson Glacier in Alaska from USGS Topographic Maps

Skagway (A-2), Alaska, 1954
USGS topographic map, Geospatial Resources & Map Collection, Ball State University Libraries

Skagway (A-2), Alaska, 2004
USGS topographic map, Geospatial Resources & Map Collection, Ball State University Libraries
Folded and flat maps of cities, counties, states, countries all over the world, and even the solar system...
4

THE AFTERMATH

Lost at Pearl Harbor were the lives of 2,009 sailors, 199 Marines, 218 soldiers, and at least 84 civilians. The Japanese lost fewer than 100 aircraft and 29 planes. The U.S. suffered severe damage to 19 ships, including 7 out of 8 battleships. Of 394 aircraft, 186 were destroyed and 136 damaged.

With coordinated attacks in the Philippines, Singapore, Hong Kong, and Dutch East Indies, the Japanese began to assert control of the skies and seas across a quarter of the Earth's surface. In the next six months, they would extend their control from the waters of India to the central Pacific, from Marianas waters to the northern shores of Australia—until defeated in the carrier battles of the Coral Sea and Midway.

As casually figures of the Pearl Harbor raid mounted on the news tickers in New York's Times Square and reports were issued over the radio, Americans were in turn stunned, disbelief, and anger. The raid, launched without a declaration of war, united a divided America. Four days later, Germany and Italy, honoring the Tripartite Pact signed in 1940 with Japan, declared war on the U.S. Now, American industrial might and political resolve were fully committed to the Allied cause.
SMALL POX MAP
SHOWING INFECTED DISTRICTS
MUNCIE IND. 1893
By G.R. Andrews.

EXPLANATION:
- No. 1 Hospital No. 1
- No. 2 Hospital No. 2
- Infected Houses
- Factory
- School House
- Court House
- Anthony Reserve
- Hoakim Park
- Gallier Reserve
UNIVERSITY ISSUES THOUSANDS OF CITATIONS

From Jan. 1, 2013, to April 1, 2014, the university issued a total of 28,185 parking tickets. This map shows how many tickets were issued in spots throughout campus during this time period. Violation fees for parking range from $20 to $135. A hold appears on a student’s Bursar account until they pay the ticket. Vehicles that have five or more unpaid parking tickets will be booted or towed from campus. It costs $30 to remove the vehicle’s boot.

SCALE
100 TICKETS
500 TICKETS
1,000 TICKETS
2,000 TICKETS
2,189 TICKETS
R02 by Petty Road and McKinley Avenue
2,293 TICKETS
The Teacher College and the Art and Journalism Building
2,507 TICKETS
Spots between the Architecture Building and the Whittier business building
4,295 TICKETS
The John R. Emens Auditorium parking structure has the most tickets for a single location on campus.

SOURCE: Parking Services

ON GRAPHIC: MICHAEL BOEHNLIE, KAITLIN LANGE
Lowest risk: Corvallis, Ore. Small quake and drought risk; little extreme weather.

Highest risk: Dallas
Lots of almost everything but quakes: twisters, hurricane remnants, hail, wind, drought, floods.

Metro areas with lowest risk:
1. Corvallis, Ore.
5. Grand Junction, Colo.
7. Salem, Ore.
8. Seattle

Metro areas with highest risk:
1. Dallas-Plano-Irving, Tex.
2. Jonesboro, Ark.
3. Corpus Christi, Tex.
4. Houston
7. Austin, Tex.

Metro area population
- Less than 175,000
- 175,000 to 500,000
- More than 500,000

Scale of hazards
- Lower
- Higher
soccer
unites the
world

Throughout history, humans have played some version of a kicking game. When the world saw rule association football in soccer, invented in medieval Britain and was formalized by England's Football Association in the mid-19th century, soccer nations and merchants spread the game to the far corners of the world, where soccer's simple formula—imagination and a light-footed instant translation. Today, the game is played in every nation on Earth, by more than 200 million regular players and countless others on beaches, playgrounds, and streets.

The Economics

In the modern era, soccer has become a big business in a multibillion-dollar global market worth more than $20 billion every year. Rich with television contracts, lucrative merchandising deals, and a number of professional soccer teams now rank among the highest earning sports teams in the planet. No sport has the memory capacity, a great back-and-forth or 10-year-old's to make them.

North America

A sport for everyone

As a cultural phenomenon, soccer is more than a sport. Since 1992, when the six-nation Texas Soccer League was formed, more than 100,000 players have been playing the game in the United States. In Canada, the game is played by more than 150,000 players, and in Mexico, more than 500,000.

South America

Borderless and big money

While soccer's origins are in Europe, the game's greatest growth has been in South America. Brazil, Argentina, and Uruguay are the birthplaces of modern soccer, and the game is deeply embedded in the culture. In Brazil, soccer is a national pastime, and the country is home to some of the world's most famous soccer teams, including Santos, Flamengo, and Botafogo.

Africa

Soccer's new frontier

Africa is a region where soccer has grown rapidly in recent years. The game has become increasingly popular in countries such as Nigeria, South Africa, and Senegal. In Nigeria, soccer is a major part of the national culture, and the country has produced some of the world's best players, including Kanu Nwankwo and Sunday Oliseh.

Europe

Last of the rich and famous

Europe is the heartland of professional soccer. The game is played by more than 10 million players, and the countries of Western Europe have some of the world's most famous soccer teams, including England, France, Germany, and Italy.

Asia

A growing passion

Asia is a region where soccer is rapidly gaining popularity. The game has become increasingly popular in countries such as Saudi Arabia, Japan, and China. In Saudi Arabia, soccer is a major part of the national culture, and the country has produced some of the world's best players, including Harry Kewell and Craig Bellamy.
Her Story: Indiana Women’s History
Eye of the Beholder: Countries with Miss Universe Pageant Winners
1952-2015

Miss Universe began in 1952 and was won by a contestant from Finland.

International beauty contests promote and export a white, Western standard of beauty. Globalization is accelerating the adoption of these standards around the world. As new governments seek global economic integration, they often signal this by jumping on the Western beauty bandwagon. The proliferation of beauty contests in the former Soviet bloc countries is particularly striking.

The pageant had only 26 contestants in 1953 but 89 contestants in 2011 and 2012. The youngest Miss Universe winner was 17, and the oldest was 26.
MISSING TEEN GIRL FOUND, SUSPECT KILLED

HANNAH ANDERSON

NEW DETAILS JUST IN
TEEN GIRL FOUND ALIVE: DIDN'T KNOW MOM & BROTHER WERE KILLED
SHERIFF: TEEN GIRL IS A VICTIM IN EVERY WAY
ATLANTA FALCONS
LONDON 2014

THE TEAM AND STAFF WILL TAKE THREE PLANES TO LONDON.

1. ATLANTA TO BALTIMORE
   577 MILES (1.5 HOURS)
2. BALTIMORE TO LONDON
   3,641 MILES (7 HOURS)
3. LONDON TO ATLANTA
   4,210 MILES (10 HOURS)
GREENLAND, WHICH LOOKS TO BE ABOUT THE SAME SIZE AS AFRICA IN THE MERCATOR MAP PROJECTION, IS ACTUALLY ALMOST 14 TIMES SMALLER THAN THE CONTINENT. SOURCE: PRATHAM.
THE TRUE SIZE OF AFRICA. SOURCE: KAI KRAUSE.
As of 2.30pm CET Monday Nov 17th 2014

By ‘NO EBOLA’ I mean:
No Current Confirmed Patients
No Current Confirmed Infectious Outbreak
No ‘PROBLEM COUNTRIES’

This map is intended for the ‘Geographically Challenged’ only. If you’re certain that it’s lacking some details, then you already know quite enough.

The ‘NO EBOLA’ map of Africa has been made by Anthony England @EbolaPhone and is not officially certified by WHO.

My thanks to Translators Without Borders for many multilingual versions.
Since Oct. 2014 ICSR report:

- Total fighters
- Additional fighters

Country from which citizens or residents have reportedly gone to fight.

Note: Figures of fighters from Western Europe are from the IISCR high estimate category. All other numbers are from the Southen Group. Per-country fighter estimates determined from a date range of December 2013 to the second half of 2014.

Small numbers of fighters are also reported to have come from Bangladesh, Chile, Ivory Coast, Japan, Malaysia, Maldives, New Zealand, Philippines, Senegal, Singapore, and Trinidad and Tobago. These countries are not shown because they are off the map.
Syria: A displaced nation

- Turkey: 1.8 million
- Lebanon: 1.2 million
- Syria (Internally displaced): 7.6 million
- Iraq: 250,000
- Egypt: 135,000

Source: UNHCR
Migrants are trying to take a rail tunnel to Britain.

Italy's coast guard recently rescued 4,400 migrants near Libya.

Reported illegal border crossings by three major routes so far this year have dwarfed last year's total of 264,950.

Hungary is rushing to complete a border fence.

Macedonian police have used force to turn back migrants.
Estimates of refugees who were lost or died at sea since January 2014

Each circle represents an incident, sized by number dead or missing.

Unfilled circles are reports that have only been partially verified.

Most incidents have occurred along the route between Libya and Italy.
Despite the drama of migrants trying to cross the Mediterranean to reach Europe, most Africans displaced by conflict stay in Africa.

About 15 million people are displaced in sub-Saharan Africa — 4.5 million of them fled last year. Long-lasting conflicts in Somalia, Sudan, and the Democratic Republic of Congo, as well as the civil war in South Sudan, are some of the top contributors.
Map: These Are the Places Central American Child Migrants Are Fleeing

—By Ian Gordon | Fri Jun. 27, 2014 3:48 PM EDT
Rio Grande Valley fence proposal

The U.S. Border Patrol is proposing to install fences, patrol roads, lights and other infrastructure along about 70 miles of the U.S.-Mexico border in the Rio Grande Valley. Environmental impact is being studied. If approved, fence segments could be under construction by spring.

**Border fence proposed locations**

**South Texas wildlife refuges**

South Texas has about 190,000 acres of wildlife refuge and nature preserves made up of the Rio Grande wildlife corridor, the Laguna Atascosa National Wildlife Refuge, Santa Ana National Wildlife Refuge and some state park land.

**By the numbers**

- **70**: Approximate miles of proposed fencing in the Rio Grande Valley
- **21**: Number of fence segments, ranging from about 1 mile to 13 miles
- **16**: Minimum height of fence, in feet, with up to 6 feet underground
- **60**: Width, in feet, of fence corridor during construction
- **508**: Acres affected during construction

Source: U.S. Army Corps of Engineers; Ramon Rivera, U.S. Customs and Border Protection; Associated Press; U.S. Fish and Wildlife Service; ESRI; U.S. Census Bureau
Migrant Death Data for U.S. Government
Fiscal Years: Oct. 1, 1999 to Sept. 30, 2004
Migrant Death Data Sources:
- U.S. Border Patrol (Tucson and Yuma Sectors)
- Mexican Consulates
- County Medical Examiners: Cochise, Pima, Maricopa, Pinal, Santa Cruz and Yuma
Spatial Data Sources:
- Arizona Land Resource Information System
- Southern Arizona Data Services Program
- Surface Management Data Published 1988

*Humane Borders has deployed equipment for 73 water stations at remote, strategic locations in the U.S. and Mexico

Some dots represent more than one death.

Between Oct. 1, 1999 and Sept. 30, 2004, more than 650 migrants died while attempting to cross the deserts of southern Arizona.

Between Oct. 1, 2004 and Sept. 30, 2005, 279 deaths were recorded and will be shown on a future map.
The human race can fit in this square

The Gambia

Tim Urban, Wait But Why
Urban calculates that we could fit 590 million people in Manhattan -- that takes care of North America. We could fit 1.38 billion people in Brooklyn, equivalent to the population of Africa, South America and Oceania. Queens could hold 2.83 billion -- roughly the equivalent of India + China + Japan. 1.09 billion could fit in the Bronx, taking care of Europe, while 1.51 billion could fit Staten Island, making room for the rest of Asia ex-China, Japan and India.
The populations of all four countries could fit in the red square.
There are more people living inside this circle than outside of it.
Each Orange dot represents a Texas gun owner
We know America is a sports-mad country, but we may not have visualized the extent before we saw this graphic put together by the website Deadspin. New York, you let a medical department chair be your highest paid public employee? No wonder Syracuse stinks at football.
Do you consider the Patriots cheaters?

- Yes: 66%
- No: 34%

(Total votes: 128,435)
**Twitter mentions of "hockey"**

Map all mentions of "hockey" on Twitter during a random period during the NHL season — the map shows mentions during December 2013 — and one thing stands out: despite the NHL's foremost efforts, fans still cluster along the Canadian border. The blue dots show individual tweets, while the redder colors show the percentage of all tweets, but both reveal a much higher level of interest in Canada, as well as northern cities like Minneapolis, Detroit, and Boston. The NHL has spread teams across the southern United States, but increased interest is growing more slowly.
WHERE IS IT THE LOUDEST IN THE UNITED STATES? NOISE MAP BY THE NATIONAL PARK SERVICE.
America

"the home of television"

James Chapman 2013
I'M WITH STUPID
THE WAY IT SHOULD BE...

NO MICHIGAN.
Online Cartographic Resources:
Polio infected countries for which WHO recommends Polio immunization or boosting to travellers*

*As of 01 Aug 2013

- Countries endemic for wild poliovirus
- Countries reporting paralytic cases due to wild poliovirus during the last 6 months
- Countries reporting wild poliovirus isolated from environmental samples and/or healthy individuals during the last 6 months

The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Data Source: World Health Organization
Map Production: Public Health Information and Geographic Information Systems (GIS)
World Health Organization
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2015 MEASLES OUTBREAK IN THE UNITED STATES

Source: CDC, state health departments and the DC Dept. of Health

Data updated: February 11, 2015
http://coolmaps.esri.com/
The Geography of Horror

Where's the scariest place in the world? See where more than 200 of the top-rated horror films of all-time took place. Data and images courtesy of Wikimedia Commons and IMDB.

https://storymaps.arcgis.com/en/gallery/#s=0/
http://www.nytimes.com/upshot/
Making Tobacco’s Case

The U.S. Chamber of Commerce and its vast network of country affiliates have engaged in a global effort to dismantle antismoking laws, taking up the fight on behalf of cigarette companies. It follows a push by the World Health Organization to curb smoking. JUNE 30, 2015
WhatWasThere ties historical photos to Google Maps, allowing you to tour familiar streets to see how they appeared in the past.

http://www.whatwasthere.com/
Contact the GRMC if you need reference assistance or any cartographic resources.
Email mgentry@bsu.edu