

MIDTERM EXAM

FRIDAY, MARCH 16, 2018
SEE STUDY GUIDE

Part 1: Take-home portion (county comparative geography) is due no later than March 16.

Part 2: In-class portion deals with mapped information and essay topics from a choice.

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11: The Nature of New York's Population Numbers, Aging and Health

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Spring 2018

Lecture design, content and presentation GAFG 0318. Individual images and illustrations may be subject to prior copyright.

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Population Density
draped over a
Google Earth base image

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Looking at the Nature of People

❖ **Population Geography** studies the location, numbers, well-being (health & nutrition) and movements of people in relation to the elements of the physical environment.

❖ **Demography** is the statistical study of a population.

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NYS Population 1910 to 2018

Census	Population	People/sq mi land
• 1910	9,113,614	193.4
• 1920	10,385,227	222.4
• 1930	12,588,066	267.1
• 1940	13,479,142	286.0
• 1950	14,830,192	314.7
• 1960	16,782,304	356.1
• 1970	18,236,967	387.0
• 1980	17,558,072	372.6
• 1990	17,990,455	381.7
• 2000	18,976,457	402.7
• 2010	19,378,102	411.2
> 2018	19,862,500 (est)	421.5

Land area = 47,126 sq mi
Total area = 54,555 sq mi

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Population Distribution

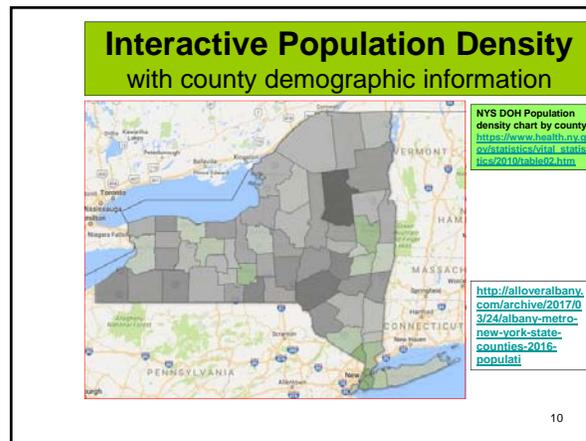
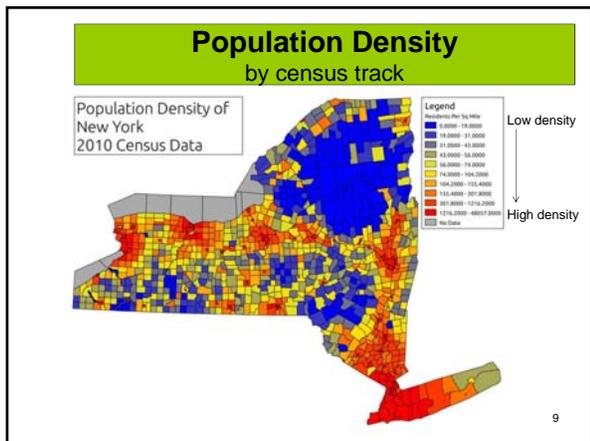
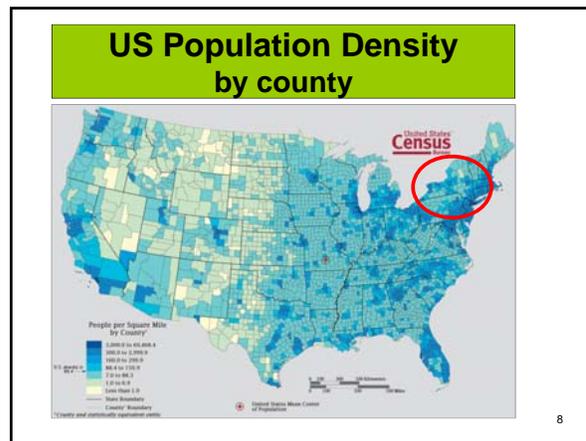
Hudson-Mohawk-Lake Plain Corridor

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Some Population Links

- ❖ <http://pad.human.cornell.edu/> Cornell Univ. Demographic Center home page
 - <http://pad.human.cornell.edu/counties/index.cfm> County data profiles
- ❖ <https://www.census.gov/quickfacts/NY> - NYS Census Information
 - <https://www.census.gov/quickfacts/fact/map/albanycountynewyork.NY/POP060210#viewtop> - Albany County Census information (there are similar links for all counties)

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Population Comparisons

2018 US Census estimates:
United States = 326 mil people

1. California = 39.8 mil (12.2%)
2. Texas = 28.2 mil (8.6%)
3. Florida = 21.3 mil (6.5%)

NYS: 4th with 19.85 million people (6.1%)

5. Pennsylvania = 12.82 mil (3.9%)
6. Illinois = 12.76 mil (3.9%)
7. Ohio = 11.69 mil (3.6%)

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<http://worldpopulationreview.com/states/new-york-population/>

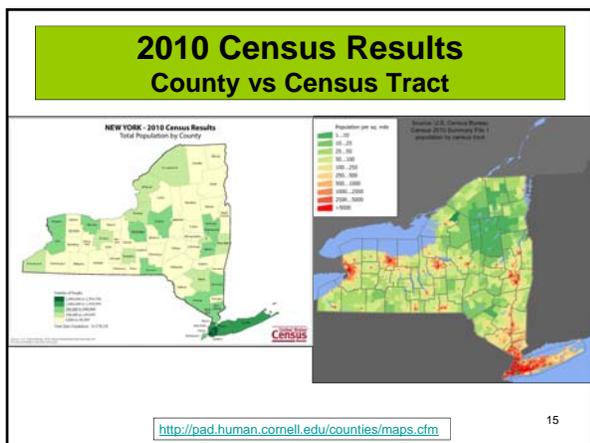
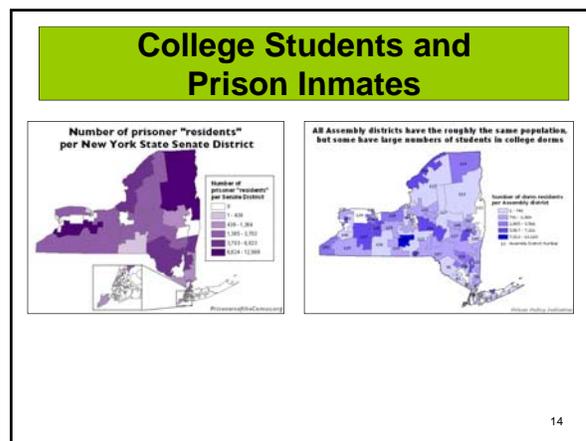
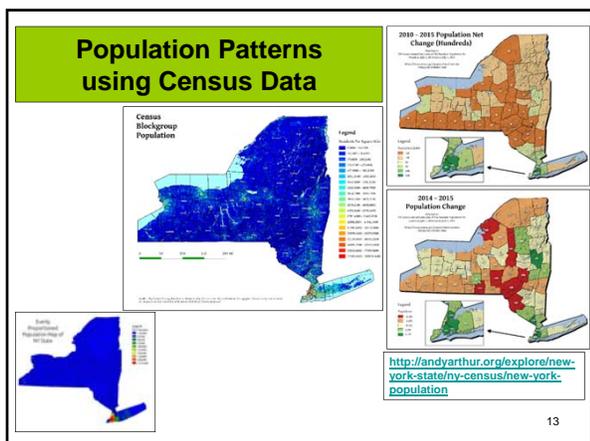
NYS compared to USA

https://www.census.gov/quickfacts/fact/table/NY_US#viewtop

US Census Quick Facts (July 2017)

	New York	USA
• Population, 2017	19,849,399	325,719,178
• Population, 2010	19,378,102	308,745,538
• Population, percent change, 2010 to 2017	+2.4%	+5.5%
• Persons under 5 years	5.9%	6.2%
• Persons under 18 years	21.2%	22.8%
• Persons 65 years and over	15.4%	15.2%
• Female persons	51.4%	50.8%
• White persons	69.9%	76.9%
• Black persons	17.7%	13.3%
• American Indian/Alaska Native	1.0%	1.3%
• Asian persons	8.9%	5.7%
• Native Hawaiian/Other Pacific Islander	0.1%	0.2%
• Persons reporting 2 or more races	2.5%	2.6%
• Persons of Hispanic or Latino origin	19.0%	17.8%
• White persons not Hispanic	55.8%	61.3%

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Tracking Change

Population geographers/demographers use **census data** and **annual estimates** to try to maintain a handle on an area's population.

- **Detailed census reports** gives us information that allow officials to plan.

EXAMPLE: Age issues/ health issues/ employment issues/ locating new facilities.

- **NY Times interactive** map of 2010 census data shows changes over the last 10 years by scanning each county:

<http://projects.nytimes.com/census/2010/map>

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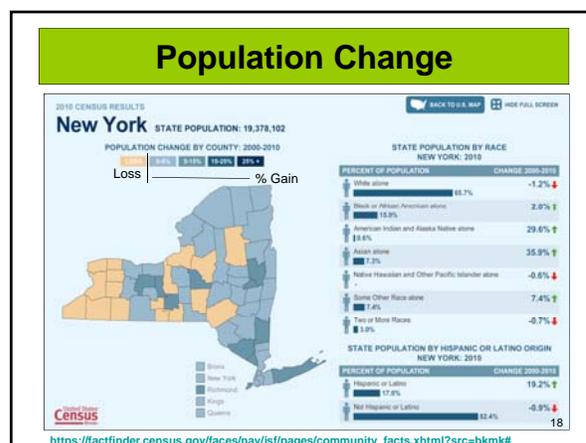
Tracking Change Trying to explain statistics.

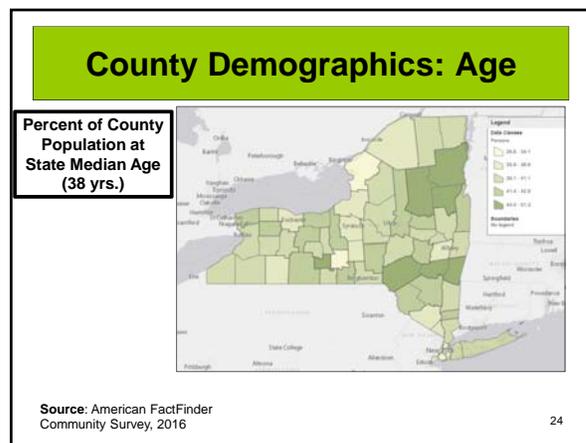
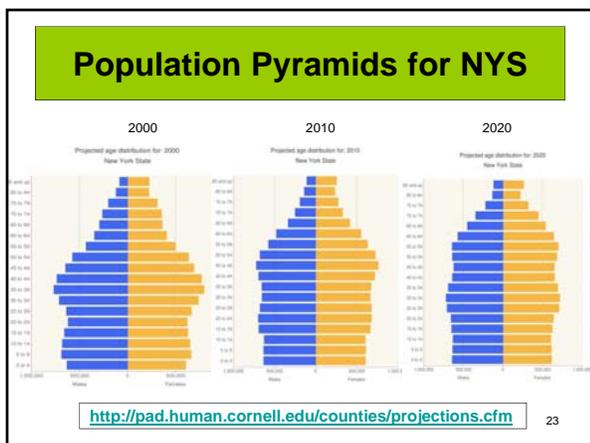
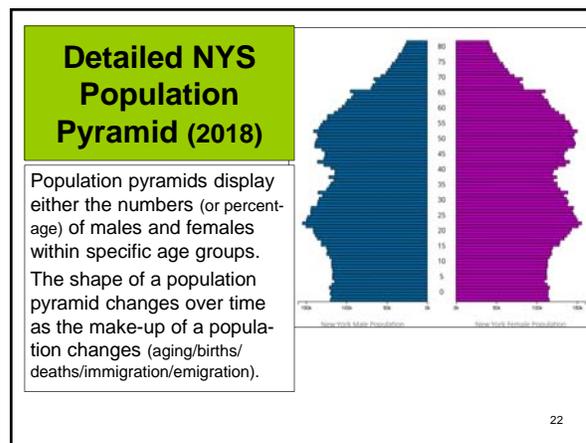
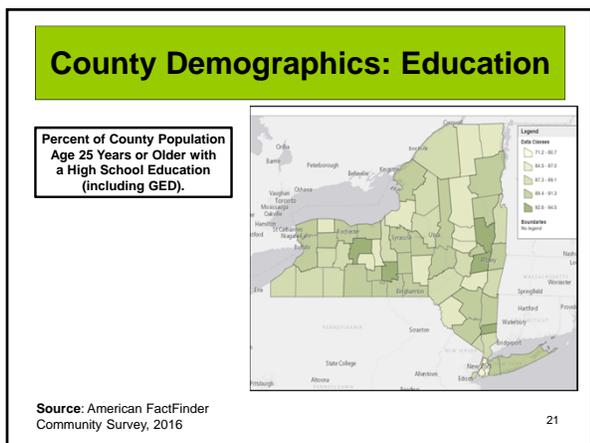
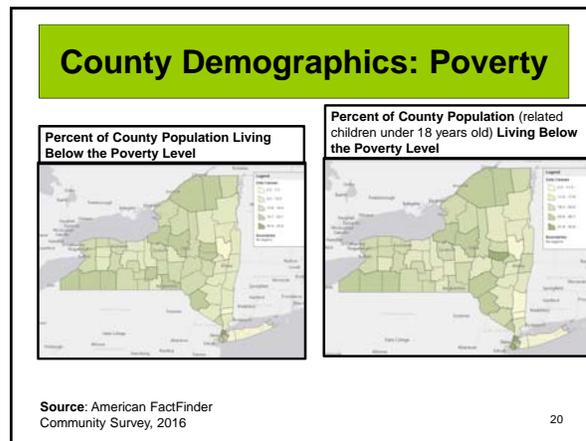
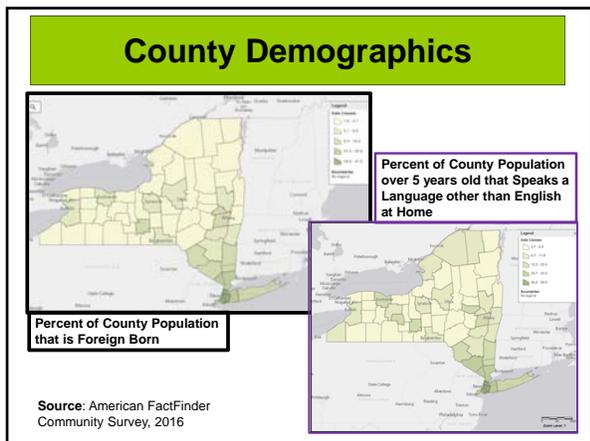
"An Exodus Without an Explanation: Why Did 4,000 People Abandon Rural Life for the Bronx? Or Did They?"
Article, NY Times, Nov. 15, 2004

2000 Census Data indicated that almost 4,000 residents of Allegany County moved to The Bronx.

About 99% of the new Bronx residents previously lived in institutional group quarters, a category that includes prisons.

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County Demographics: Age

Percent of County Population 18 years and younger

Percent of County Population 65 years and older

Source: American FactFinder Community Survey, 2016 25

Aging Population Issues

- ✓ How many people in these groups?
- ✓ Where are they located?
- ✓ What services do they need?
 - Jobs, social services, recreational facilities, health care, nutrition programs, poverty issues, long-term care
 - Geriatric care vs. Pediatric care
 - Job training/retraining programs vs. K-12 education
 - Older driver safety vs. Teen driver's education
 - Adult day care vs. Pre-school day care
- ❖ Where are the services currently located?
- **But**, where should they be located?

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Older Adults

Proportion of County Population Aged 60 and Over	Number of Counties with Specified percent of Older Persons	
	2010	2020
Less than 20%	33	4
20% to 24%	26	32
25% to 29%	1	22
30% and over	2	4

<http://www.op.nysed.gov/surveys/mhpsw/sofa-att1.pdf> 27

Health Issues

- ❖ Each group of people have particular health needs (children/middle age/seniors)
- Once the people have been identified and located, then their needs can be addressed.
But, where can they get the care and services they need for their illness?
- What is the spatial relationship in NY between a patient's location and the location of appropriate health care facilities?

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Distribution of Doctors

Primary care physician supply per 100,000 population and Primary Care Health Professional Shortage Areas (HPSAs)

Primary Care Health Professional Shortage Areas (HPSAs)

An Uneven Distribution of Doctors

Source: Kaiser State Health Facts, State Learning Information from Health Data, Inc. March 2010, U.S. Census Bureau, 2010 HPSA Data (November 2010), map developed by CTRHS
September 18, 2010 29

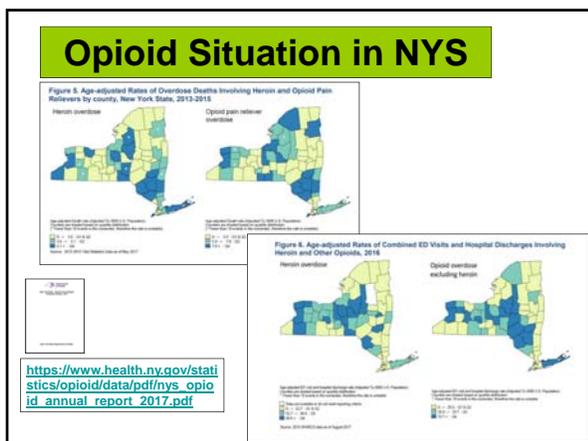
Tracking Disease

NYS Dept of Health (DOH) maps illness by county

RED line is NYS average

<http://www.health.ny.gov/statistics/cancer/registry/cntvmaps/cntvmaps.pdf>

<http://www.geo.hunter.cuny.edu/courses/geog260/CancerMaps-NYS.pdf>
Link to 2001-2005 maps 30



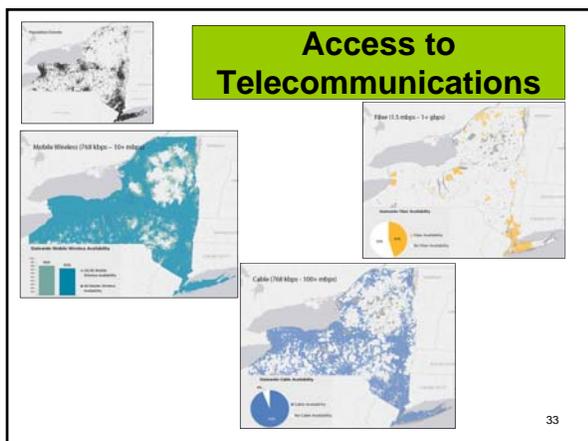
Vital Health Statistics

<http://www.health.state.ny.us/statistics/>

Statistics & Data (from A to Z)

- [AIDS/HIV](#)
- [Alzheimer's Disease](#)
- [Ambulatory Surgery \(SPARCS Outpatient\) Statistics](#)
- [Asthma](#)
- [Behavioral Risk Factor Surveillance System \(BRFSS\)](#)
- [Cancer](#)
- [Cancer Registry, New York State](#)
- [Cardiovascular Disease \(Heart Disease and Stroke\)](#)

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