

## Population Issues: Numbers, Aging and Health

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## Population, Aging and Health

**Exercise 14 (required) focuses on population issues.**

Due on November 26, 2012

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### Population Distribution and the Hudson-Mohawk-Lake Plain Corridor

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### Population Distribution by 2010 census track

Population Density of New York  
2010 Census Data

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## DEFINITIONS

- **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 Change 1910-2010

Census	Population	People/sq mi
• 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

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## NYS compared to USA

<http://quickfacts.census.gov/qfd/states/36000.html>

### US Census Quick Facts

	New York	USA
• Population, 2010	19,378,102	308,745,538
• Population, percent change, 2000 to 2010	2.1%	9.7%
• Population, 2000	18,976,457	281,421,906
• Persons under 5 years	6.0%	6.5%
• Persons under 18 years	22.3%	24.0%
• Persons 65 years and over	13.5%	13.0%
• Female persons	51.6%	50.8%
• White persons	65.7%	72.4%
• Black persons	15.9%	12.6%
• American Indian/Alaska Native	0.6%	0.9%
• Asian persons	7.3%	4.8%
• Native Hawaiian/Other Pacific Islander	0.0%	0.2%
• Persons reporting 2 or more races	3.0%	2.9%
• Persons of Hispanic or Latino origin	17.6%	16.3%
• White persons not Hispanic	58.3%	63.7%

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## 2010 NYS Numbers

**USA = 309 million people**

1. California = 37.3 mil (12%)
2. Texas = 25.1 mil (8%)

>> Ranks 3<sup>rd</sup> with 19.4 mil people (6%) <<

4. Florida = 18.8 mil

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## Population Change

2010 CENSUS RESULTS

### New York

STATE POPULATION: 19,378,102

POPULATION CHANGE BY COUNTY: 2000-2010

Loss | Gain

STATE POPULATION BY RACE

NEW YORK, 2010

PERCENT OF POPULATION	CHANGE 2000-2010
White alone	-1.2% ↓
Black or African American alone	2.0% ↑
American Indian and Alaska Native alone	18.4% ↑
Asian alone	35.9% ↑
Native Hawaiian and Other Pacific Islander alone	-0.6% ↓
Some Other Race alone	7.4% ↑
Two or More Races	-0.7% ↓
Hispanic or Latino	17.4% ↑
Not Hispanic or Latino	0.4% ↓

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## Percent Change in Population

Age-Specific Net Migration

New York State, 1990-2000

NEW YORK - 2010 Census Results

Percent Change in Population by County: 2000 to 2010

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

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## Tracking Change

Trying to explain statistics.

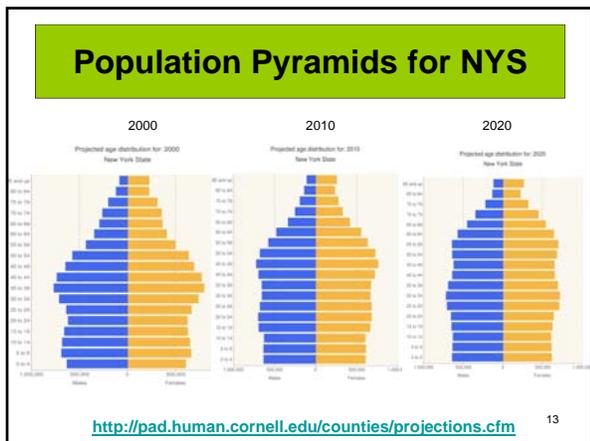
“An Exodus Without an Explanation: Why Did 4,000 People Abandon Rural Life for the Bronx? Or Did They?”

Article, *NY Times*, Nov. 15, 2004

**2000 Census Data** indicated that almost 4,000 residents of Allegheny 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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### Aging Population Issues

- How many people in these groups?
- Where are they located?
- What services do they need?
  - >>Jobs, Social services, Recreational facilities, Nutrition programs, poverty issues, long term care
  - >>Geriatric care vs. Pediatric care
  - >>Health care 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

2007-2011 STATE PLAN ON AGING  
**Aging in New York**  
Executive Summary

**New York State  
62 Counties  
% of Population Aged 60 and Over  
2000 and 2010**

Proportion of County Population Age 60+	# of Counties with Specific % of Older Persons 2000	# of Counties with Specific % of Older Persons 2010
12% - 19%	48	8
20% - 24%	13	35
25% - 29%	1	17
25% - 29%	0	2

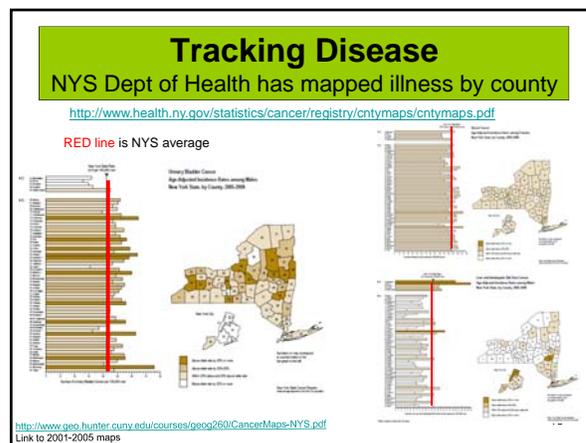
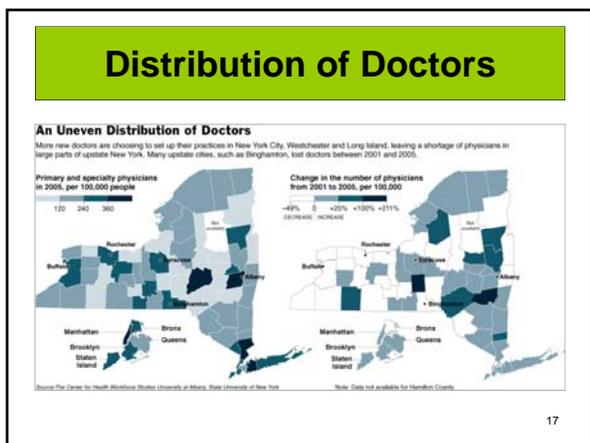
**Older Adults Living Below the Poverty Level by Age and Gender**

Source: US Census Bureau, Census 2000 Public Use Microdata Sample (PUMS)

### 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 NYS between a patient's location and the location of appropriate health care facilities?**

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## NYS Vital 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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## Some additional links

- <http://quickfacts.census.gov/qfd/states/36000.html> NYS
- <http://quickfacts.census.gov/qfd/states/36/36001.html> Albany county (similar links exist for all counties)
- <http://pad.human.cornell.edu/> Cornell Univ. demographic center
- <http://pad.human.cornell.edu/counties/index.cfm> county data

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