Demographic and Health Trends Impacting North Dakota



Healthy North Dakota Coordinating Committee Meeting August 26th, 2013

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A one-stop social indicators website in North Dakota with tools to help access and interpret data.



Presentation Objectives:

- 1. To present an overview of historical shifts and trends in the demographics and health of ND.
- 2. To introduce the social indicators website ND Compass and its resources.



.. Measuring progress. Inspiring action.

Contextual Indicators

- Social determinants of health
 - Key measure breakdowns geography, income, education, race, gender
 - Poverty (Economy), Educational attainment (Workforce)
- Context
 - Demographics
 - Population trends
 - Disability prevalence
 - Early Childhood
 - Total Births (from Low Birth Weight → Data & Notes)

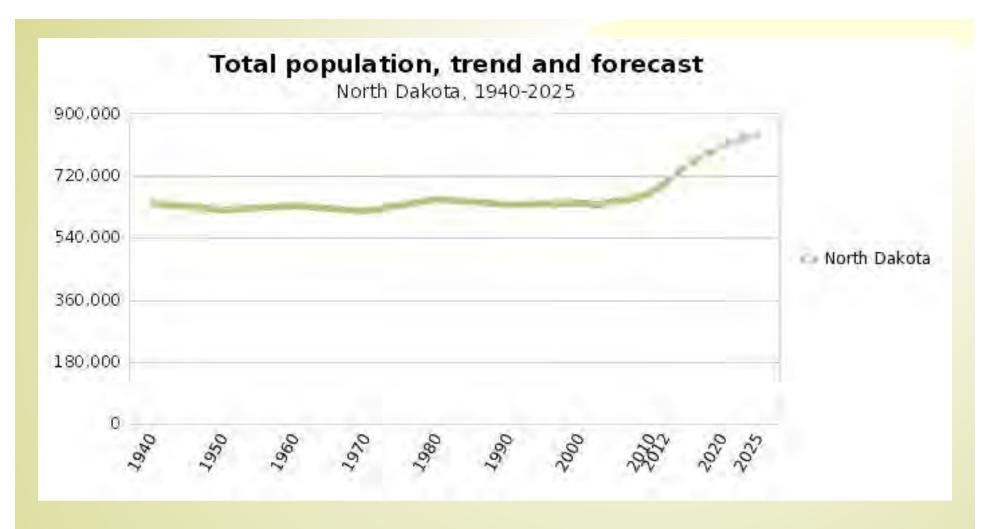


Measuring progress. Inspiring action.

Health-Related Indicators

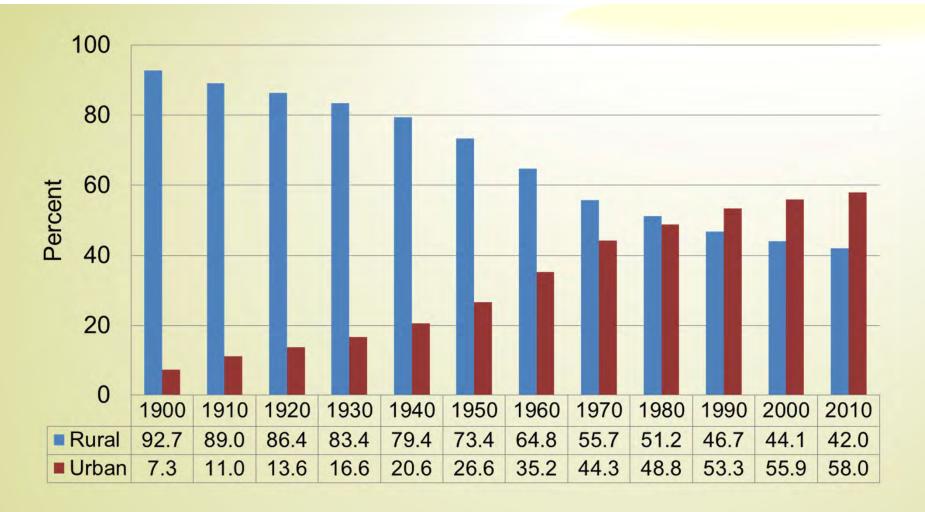
- Health Topic area
 - 4 key measures = diabetes, obesity, health care coverage, mental health
- Other topics
 - Low birth weight (Early Childhood)
 - Youth use of alcohol and youth sexual activity (Children & Youth)
 - Air quality (Environment)





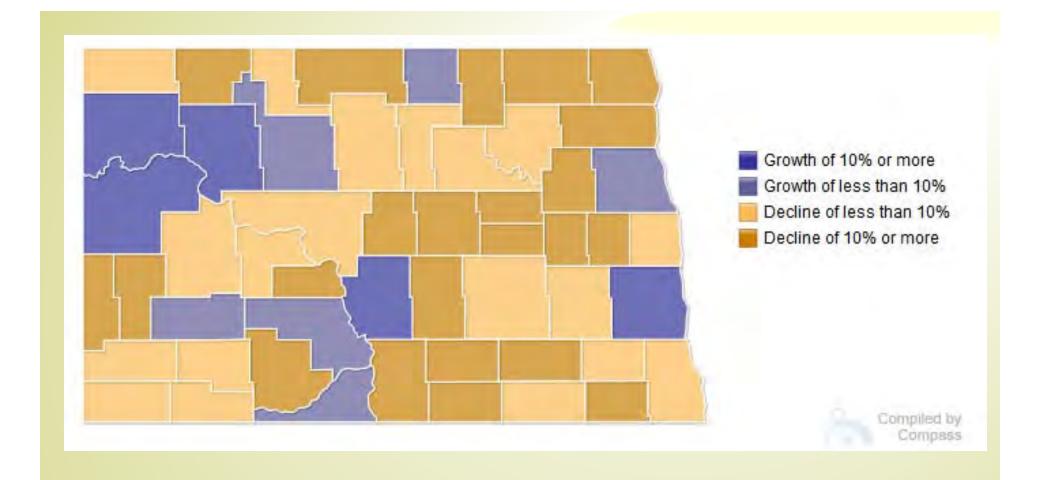
North Dakota Population

North Dakota's 2012 population reached a historic high – 699,628. The previous peak was in 1930 at 680,845.



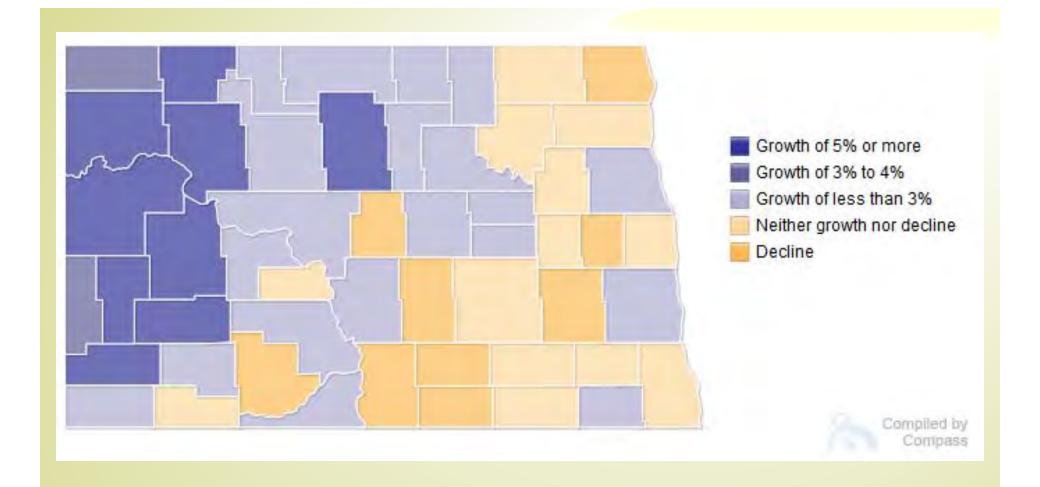
ND Rural-Urban Population Distribution

More North Dakotans live in urban areas (2,500+) by 1990. 223 (62%) of ND's 357 incorporated places are smaller than 250 people.



% Change in Population: 2000–2010

11 of 53 counties gained population from 2000 to 2010.



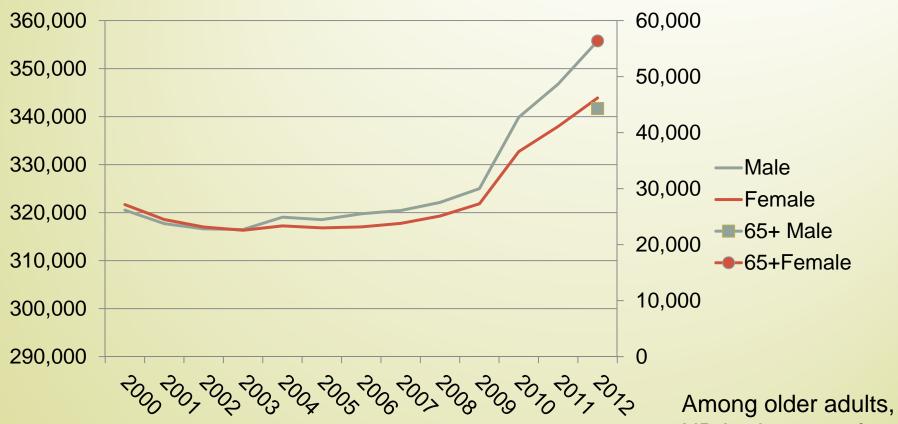
% Change in Population: 2011–2012

ND's population grew 2.2% from 2011 to 2012, the fastest growth among all states.

38 of 53 counties gained population from 2011 to 2012.

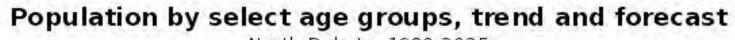
Population loss is still a reality for many counties.

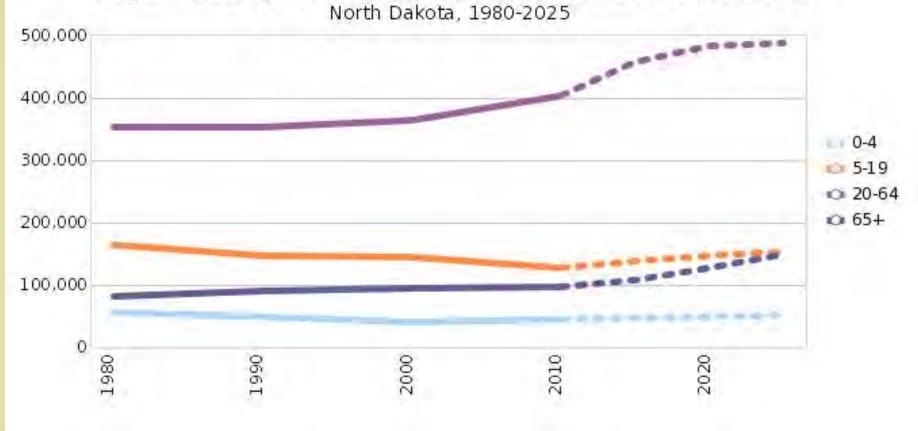
Gender Distribution



Source: U.S. Census Bureau, Population Division

Among older adults, ND had 77 men for every 100 women.*



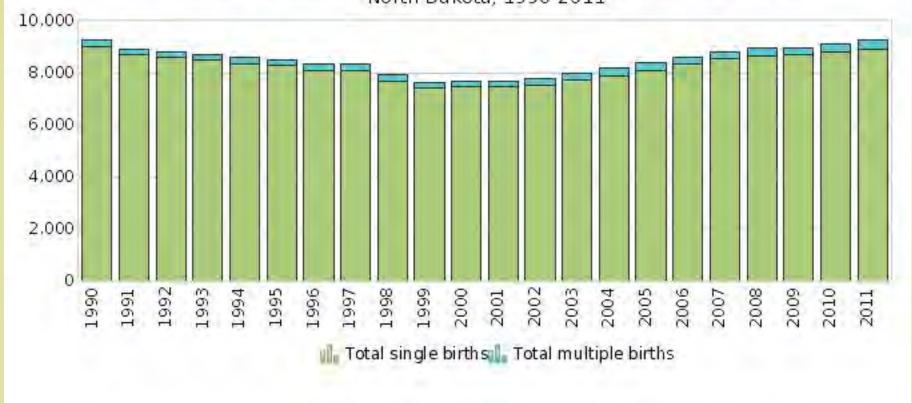


Population by Age

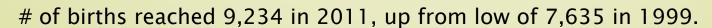
Growth in working age pop corresponds to small growth in # of children. Growing #, % of elderly: 12% in 1980, projected to reach 18% by 2025.

Total babies born by single and multiple births

North Dakota, 1990-2011



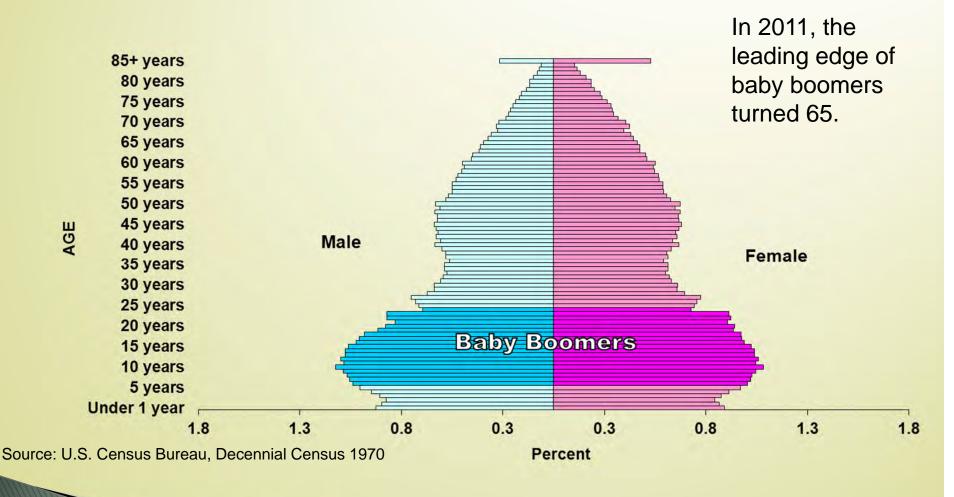




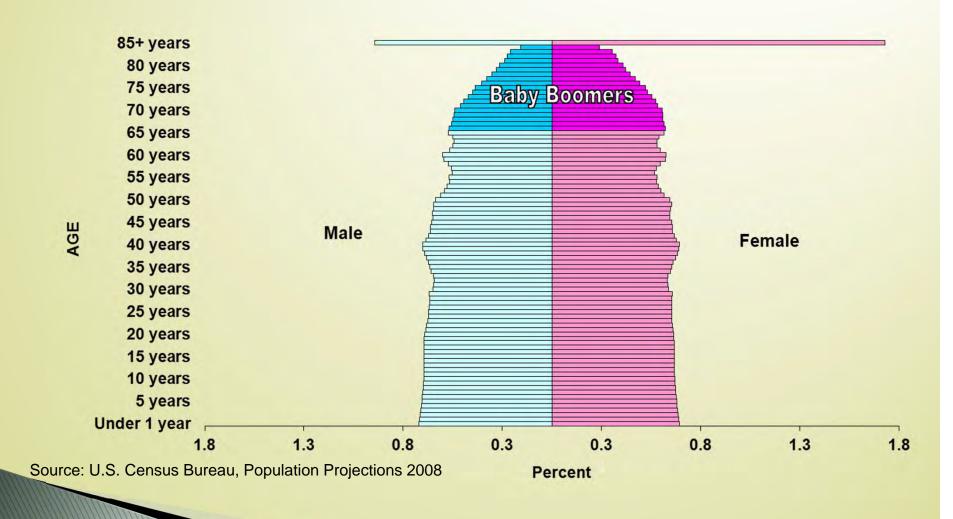
Continued Population Increase Projected

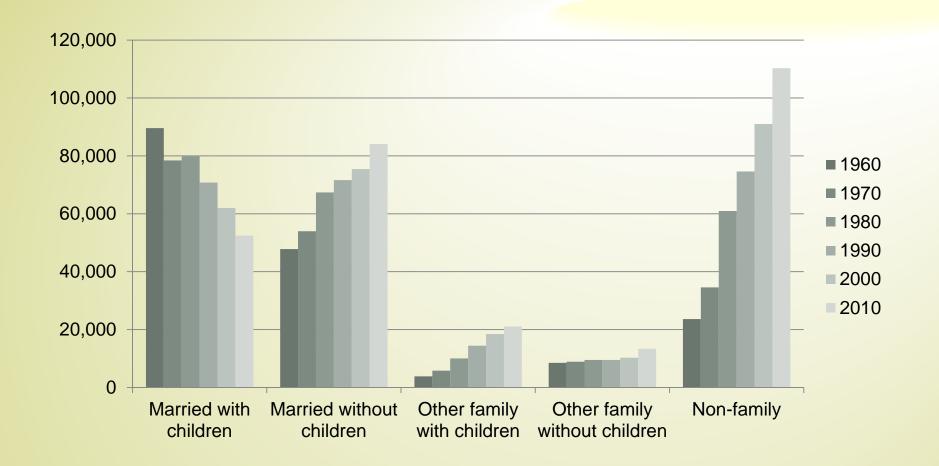
- Increases in age groups (largely due to oil boom) lessening the "graying of ND"
- # of older adults in ND is expected to increase 50%.*
 - From 98,595 in 2011 to 148,060 in 2025.
 - McKenzie, Williams, Divide counties more than double # of seniors
 - Overall state proportion rise to 18% (from 14% now)
- In 2012, ND had the 2nd highest proportion of older adults ages 85+ in the nation at 2.5%.*
 - # more than doubled from 1980 to 2012
 - Expected to stay fairly stable during next 14 years (grow again when baby boomers reach this age bracket)

Population by Single Year of Age and Sex in the U.S.: 1970



Population by Single Year of Age and Sex in the U.S.: 2030

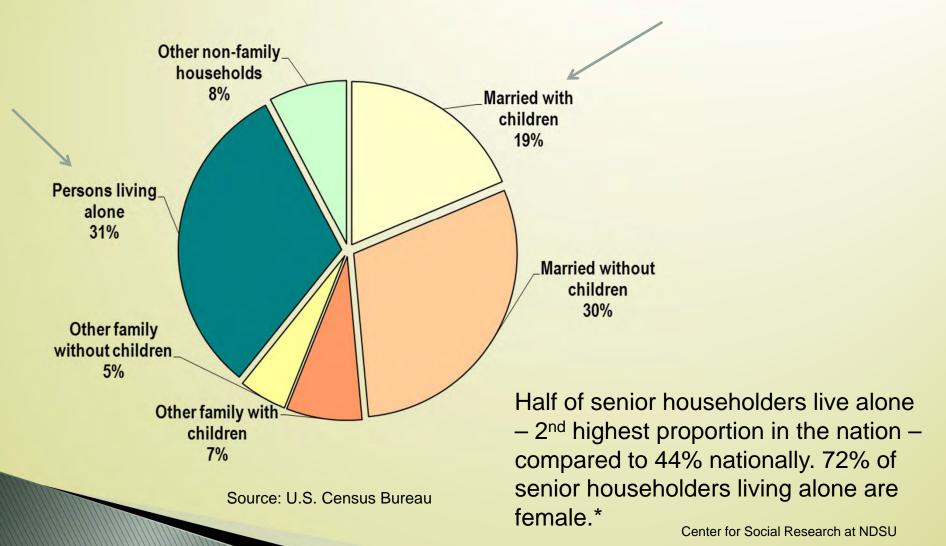


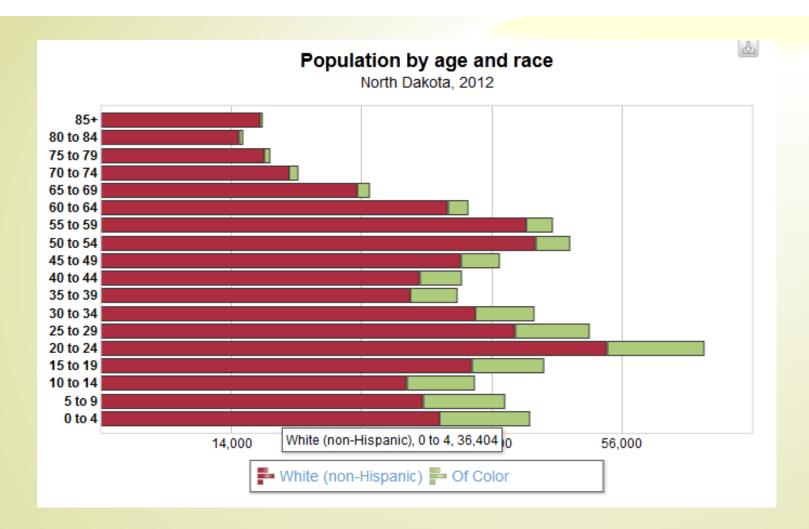


ND Households by Type

Dramatic shifts over the past several decades. Decrease in # and proportion that are married with children while other types have growth. Non-family households have seen greatest increases (people living alone).

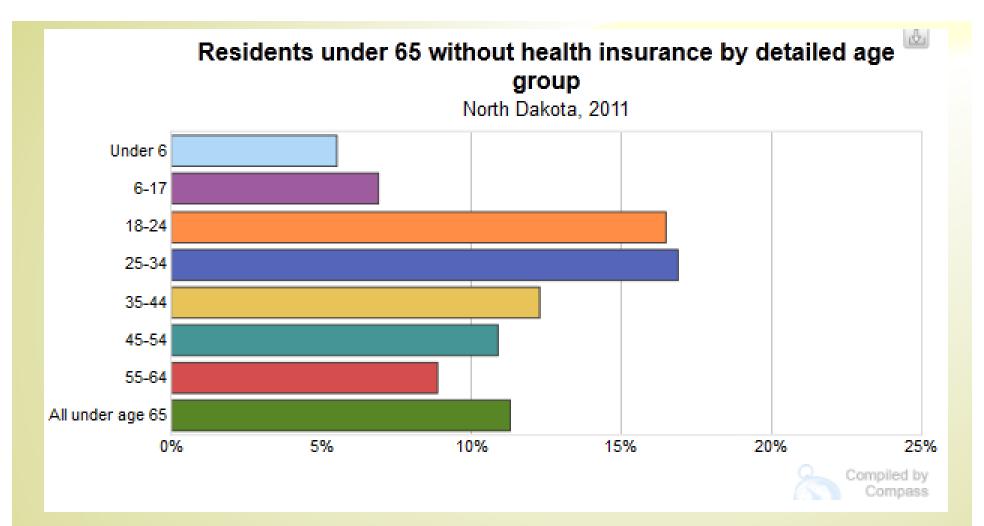
Household Types in ND: 2010





Population Diversity >>>

Diversity is increasing, with much larger numbers/proportions of Of Color residents in the younger age groups.



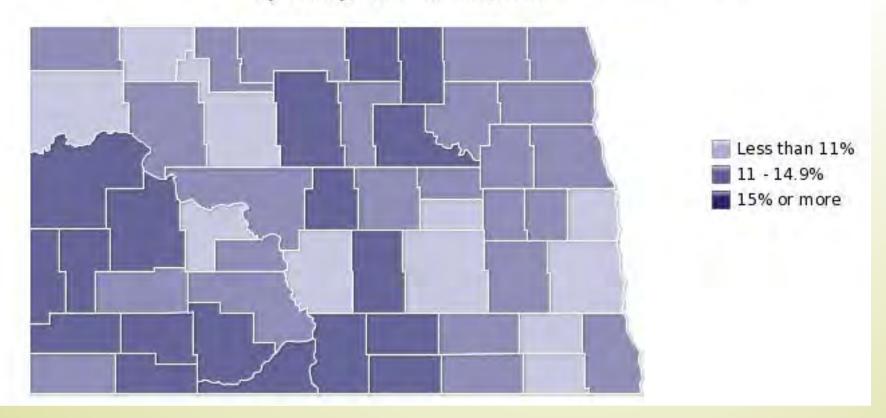
Uninsured by Age (Under 65)



Greatest rates of uninsured: 18-34 (approx. 17% compared to 11% for all under 65). 97% of ND seniors have health-care coverage (most are eligible for Medicare).*

Residents under age 65 without health insurance

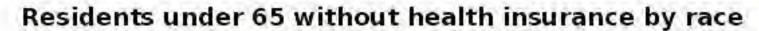
By county, North Dakota, 2010

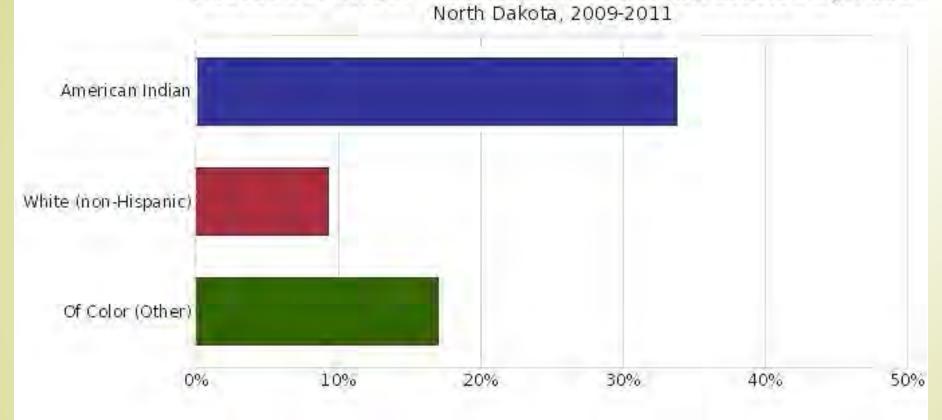


Uninsured by County (Under 65)



At least 1 in 5: Grant (26%), Logan, Sheridan, Slope Access is an issue: 35% of all North Dakotans live in a primary health-care professional shortage area.*





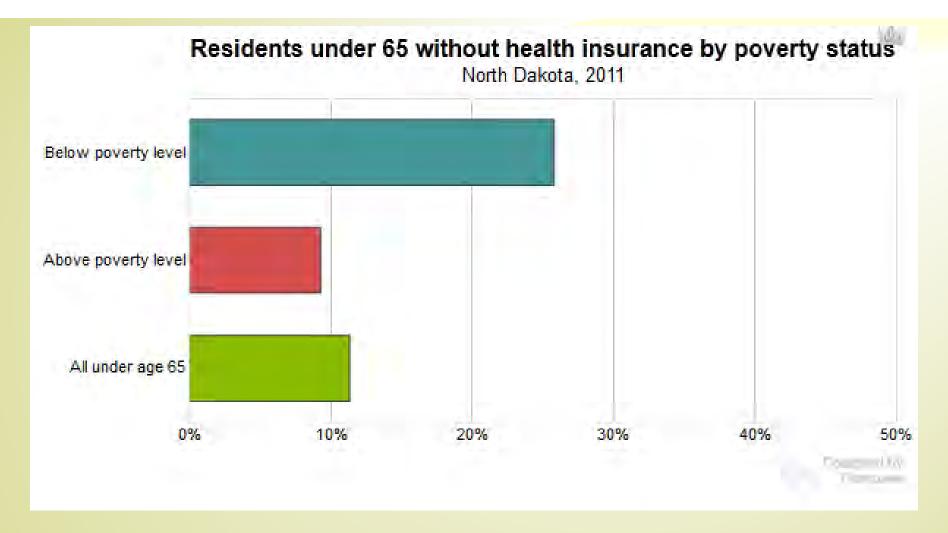
Uninsured by Race (Under 65)



Rate more than 3x higher for American Indians than whites (34% vs. 9%)

Indian Health Service - considered a health provider not a health insurer.

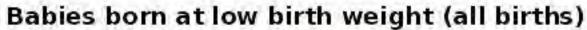
Exemption from ACA for enrolled tribal members (?).



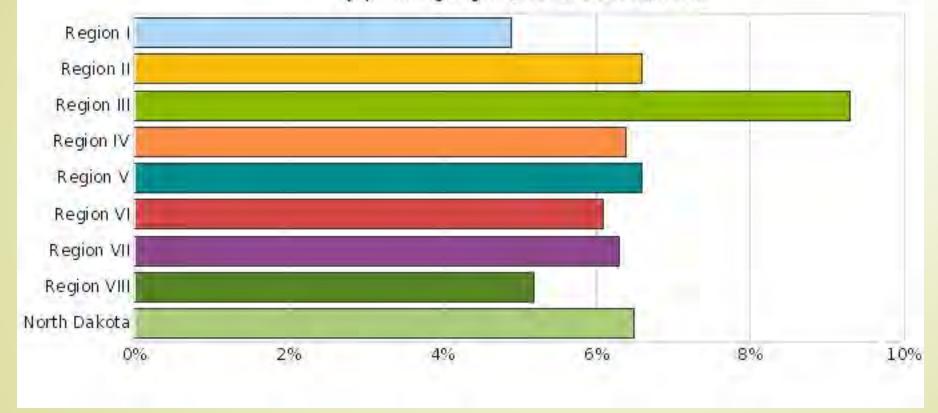
Uninsured by Poverty Status (Under 65)



Rate ~3x higher for those below poverty level than those above it (26% vs. 9%)

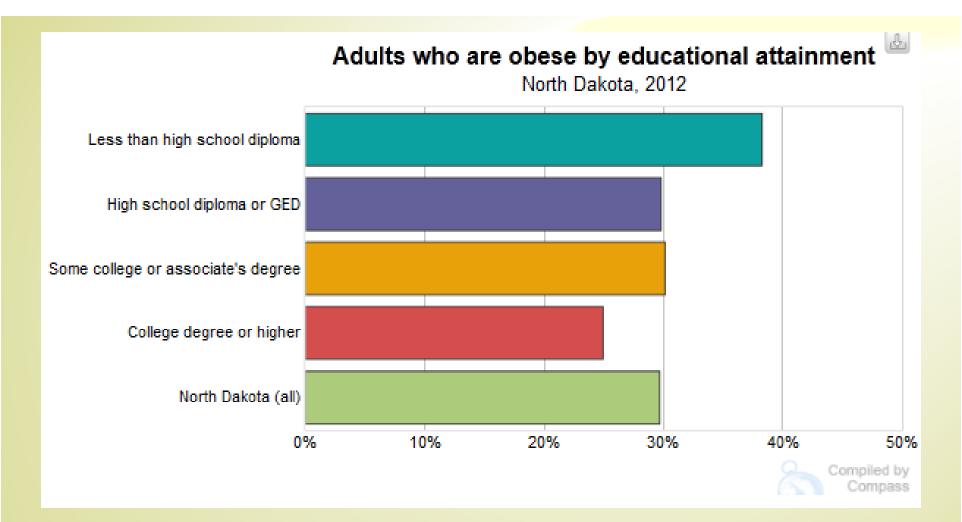


By planning region, North Dakota, 2011



Low Birth Weight by Planning Region

6.5% of all births statewide; 9.3% in Region 3, 4.9% in Region 1



Obesity by Educational Attainment

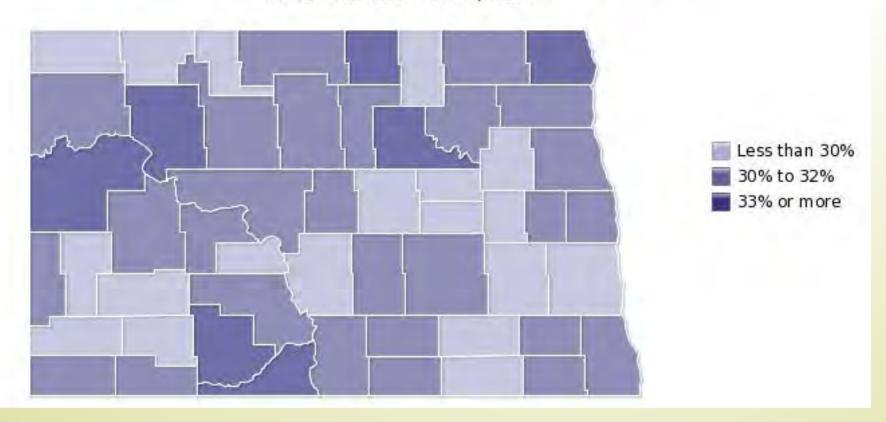
(Note, on website, graphs are dynamic and MOEs are provided where available.)

30% of North Dakotans are considered OBESE.

Rates higher with lower education levels.

Percentage of adults (20+) who are obese

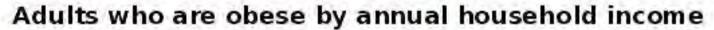
North Dakota counties, 2009



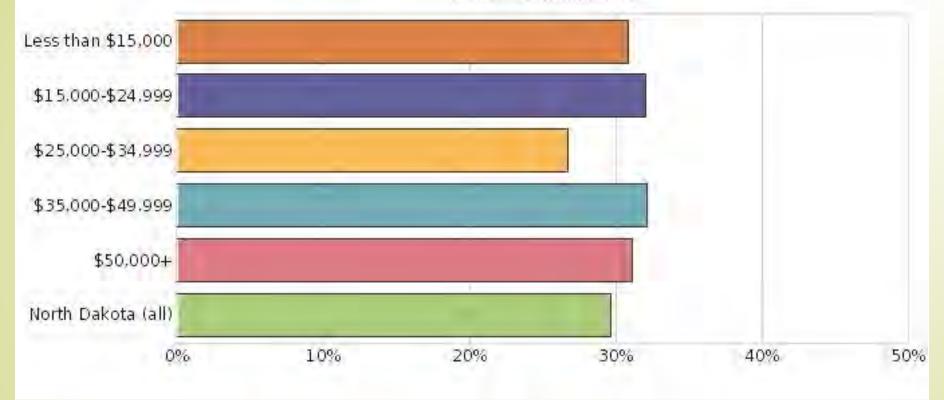
Obesity by County

Darkest purple = counties in which 1 in 3 adults is OBESE.

Can see some geographic patterns in areas with Native American Reservations.

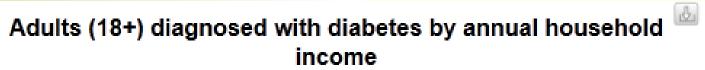


North Dakota, 2012

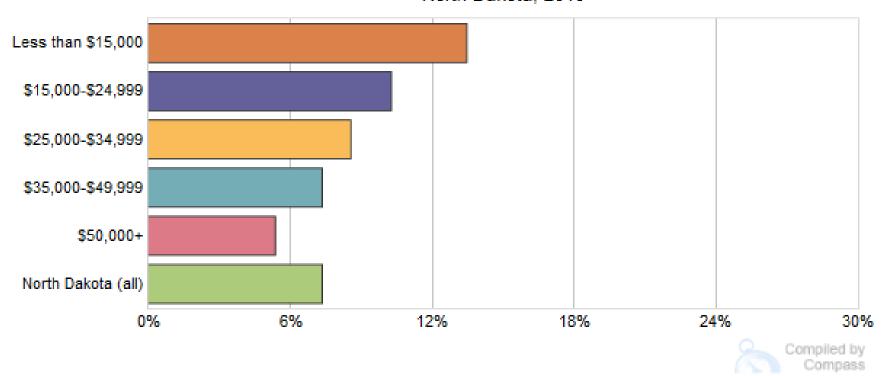


Obesity by Income >>>

Obesity rates are high across all income groups.



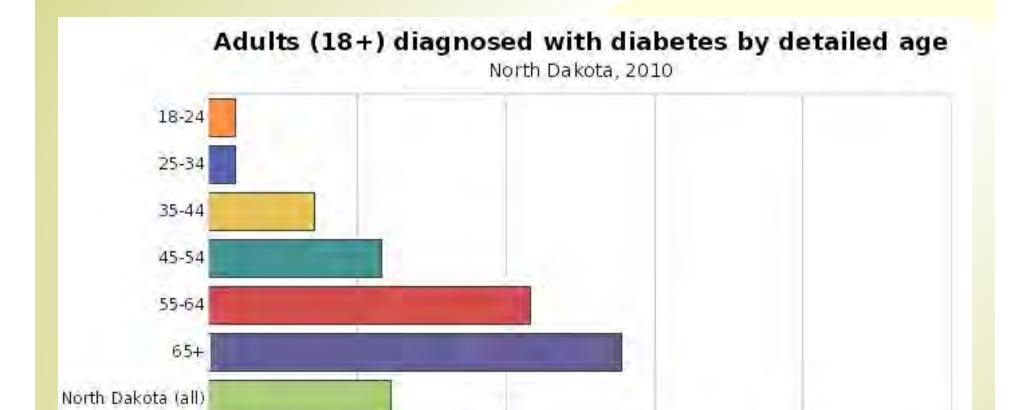
North Dakota, 2010



Diabetes by Income >>>



Much higher prevalence among lower income groups.



0%

6%

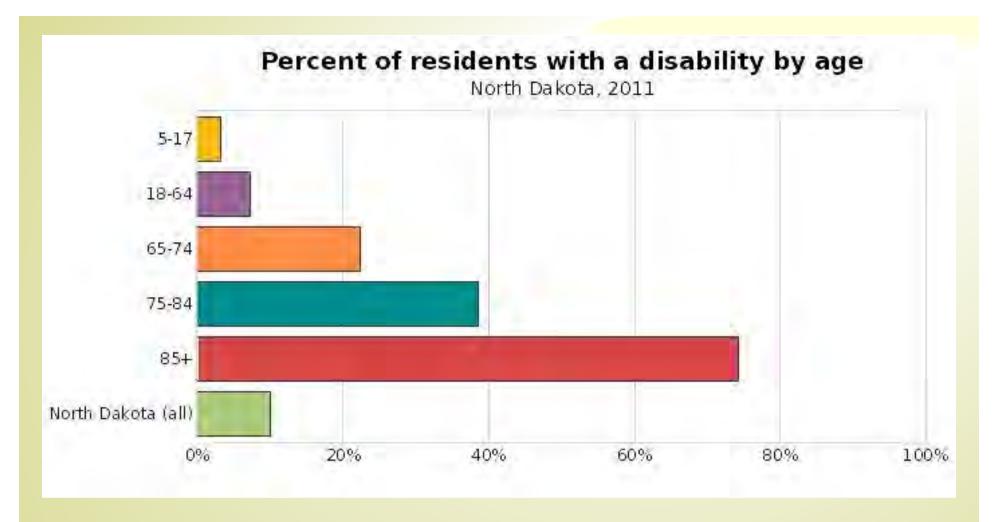
Diabetes by Age (18+)

24%

18%

7.4% of North Dakotans have diabetes; 17% (nearly 1 in 6) of seniors 65+.

30%



Disability by Age

Difficulties and Disabilities

- More than 1/3 of (noninstitutionalized) older adults report having a disability (35%).
- Difficulties include:
 - Ambulatory (20%)
 - Hearing (16%)
 - Independent living (13%)
 - Vision (7%)
 - Cognitive (6%)
 - Self-care (5%)



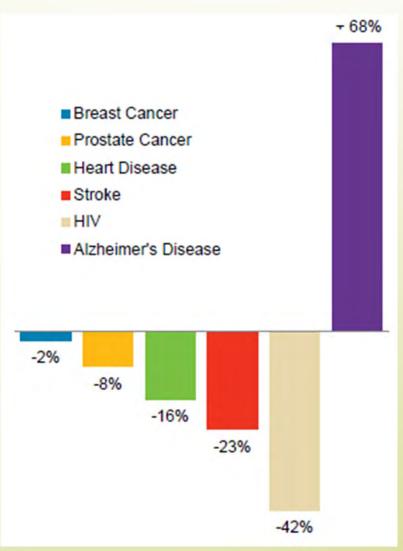
Source: U.S. Census Bureau, 2011 ACS 1-Year

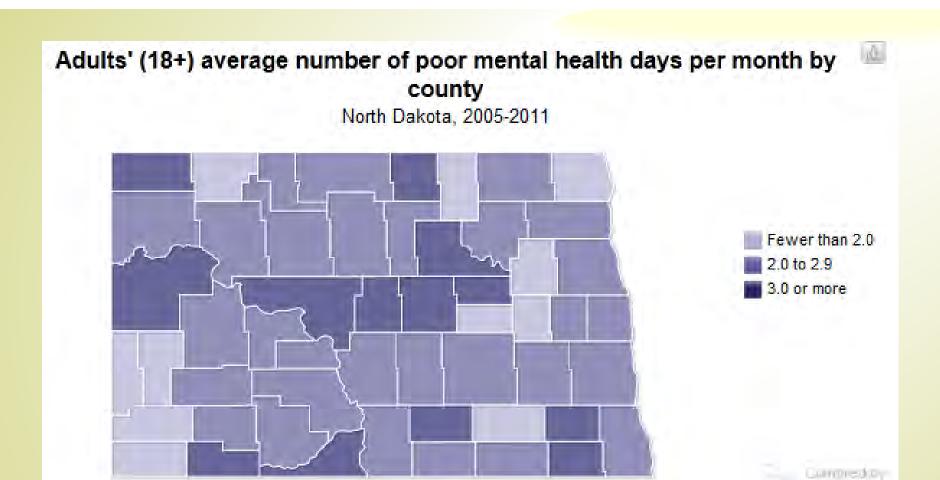
Long-Term Care Facilities

- In 2010, about 6% of ND older adults live in skilled nursing facilities.*
 - The majority of these residents are 85+.
 - Two-thirds of nursing home residents are female.
- In 2009, ~10% of ND older adults had at least one nursing home stay.*
 - 30% of residents 85+ had at least one stay.

Alzheimer's Disease

- Most common form of cognitive impairment.
- In 2010, ~18,000 ND older adults lived with Alzheimer's:
 - 700 ages 65 to 74
 - 7,700 ages 75 to 84
 - 9,800 ages 85+
- Nationally, prevalence of Alzheimer's disease:
 - 1 in 9 people ages 65+
 - 1 in 3 people ages 85+
- Alzheimer's disease is the 6th leading cause of death in the U.S. (4th in ND) among older adults

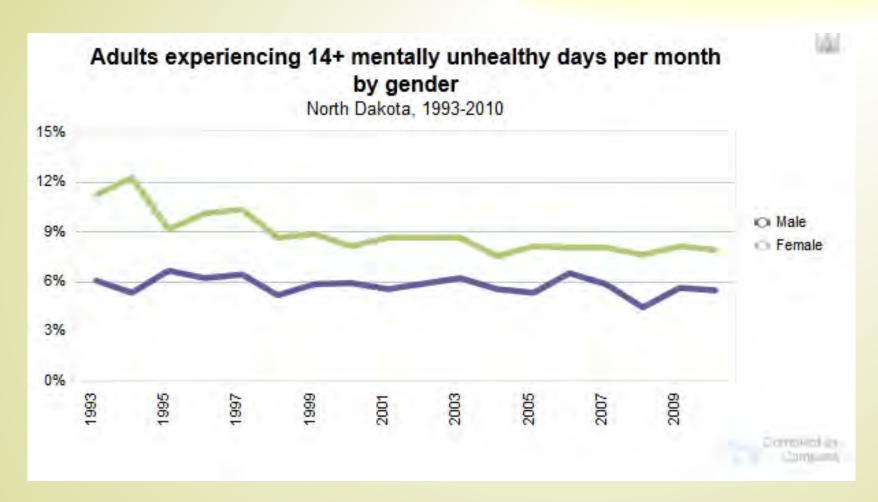




Mental Health by County

On average, North Dakotans had 2.4 mentally unhealthy days per month.

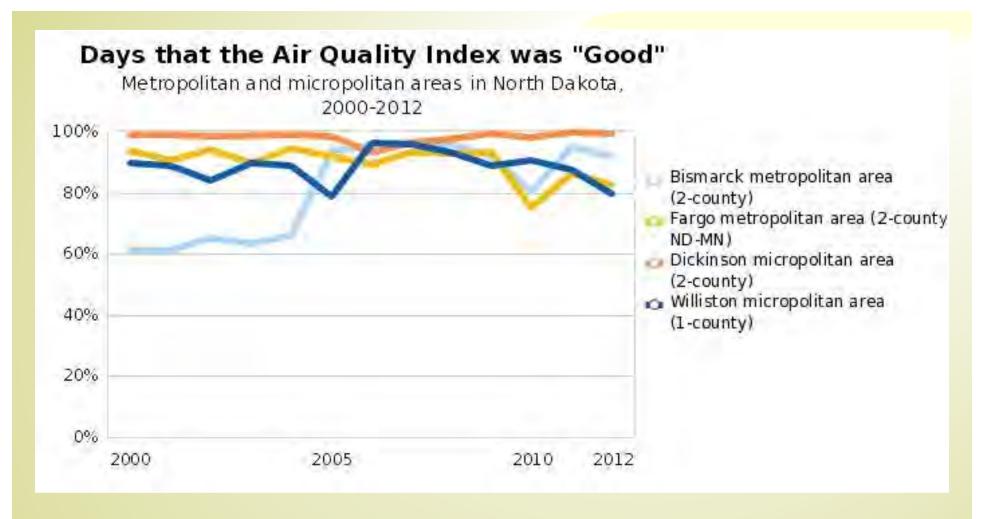
Differences by county (darkest purple = 3.0+ days/month).



Mental Health by Gender

On average, 6.6% of North Dakotans experienced mentally unhealthy days at least half the month.

Differences by gender.



Trends in Air Quality in 4 of ND's Largest Cities

Dickinson – stable.

Fargo, Bismarck – down/up/down.

Williston - gradual decline.



ND Compass

Compass gives everyone in our state policymakers, business and community leaders, concerned individuals who live and work here a common foundation to identify, understand, and act on quality of life issues that affect our communities.



ND Compass

- More than 1,000 graphs and tables
- 39 key measures in 12 topic areas
- Data by race, ethnicity, gender, income, and more
- Monthly analysis from researchers and commentary from community leaders and funders
- Twitter feed and Facebook page with breaking data news
- An e-library of recent publications and researchtested strategies

... Measuring progress. Inspiring action.

Working to Change the Equation

From:

Good intentions +

No common base of information =

Inefficient decisions

To:

Good intentions +

Sound, credible information +

Common sense of purpose =

Productive decisions for strong communities



Partnerships

- Wilder Research created and operates the award-winning MN Compass site
 - Model for ND Compass
 - Run the "back-end"



Funding Partners





Input from Stakeholders

- Steering Committee
- Advisory Committee
- Topic-Specific Technical Working Groups

ND Compass engages data users, community stakeholders, and funders to:

Assess relevancy of topics and key measures

: Reflect quality-of-life

: Data availability

Suggest resources

Help champion our site



Explore ndcompass.org, sign up for the enewsletter

get involved?

- Follow us on Facebook (/ndcompass) and Twitter (@NDCompass)
- Suggest a resource
- > Tell others about Compass
- Serve on a technical working group
- Become a financial supporter



Dr. Richard Rathge

- Retired earlier this month
- Former Director of the ND State Data Center at NDSU
- NDSDC service activities (data requests, presentations, population projections, demographic trends) transitioned to the ND Census Office in the ND Department of Commerce Jan. 1, 2012 www.commerce.nd.gov/census
 - Research activities transitioned to the CSR at NDSU www.ndsu.edu/csr

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Center for Social Research at NDSU

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