National Indian Health Board

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Data Seminar

National Tribal Health Conference
Oklahoma City, OK

September 17, 2018

910 Pennsylvania Avenue, SE | Washington, DC 20003 | 202-507-4070 | 202-507-4071 fax | www.nihb.org

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Data to improve Indian Health

Outline of the Seminar

1. Visualizing Data sets
2. Population
3. Health Insurance Status
4. Health Status
5. Grant writing, Health Planning and Advocacy (at the end)
6. Review of the Appendix

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Existing Data Sets with American Indians / Alaska Natives (AIAN)

US Census

Decennial Enumeration, Count of All Residents

- Annual Population Estimates based on Births, Deaths, Immigration

Annual American Community (ACS) Survey, 16,000 households, 64,000

- 1 year and 5 year versions:
- 1 year covers fewer geographies and has higher error rate,
- 5-year covers nearly all geographies (including counties and metro areas) and has lower error rate
- 5-year can underestimate changes as it pools over the 5 years
  - Example underestimates increase in insurance coverage change 2013 to 2017

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Data Sets:

CDC (Centers for Disease Control and Prevention)

- Often American Indians and Alaska Natives' data is not reported
  - BRFSS Behavioral Risk Factor Survey-has American Indian and Alaska Native data
  - Some larger studies and prevention efforts do include Indian Data (see next slide)
  - Opioids recent expansion, but a long recognized issue (pain meds)

CMS (Centers for Medicare and Medicaid)

- Medicare, enrollment, expenditures, chronic conditions reporting
- Medicaid, more difficult since States collect the data and then send it to (CMS)
- Can compare administrative (claims and payments)data to US Census including ACS estimates
- MSIS, Statistical Information System (now Transformed or T-MSIS)
- Rural Health Strategy, a new focus on rural America.

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Data Sets:

Tribal EpiCenters –reports by Areas of IHS

Racial Misclassification Studies

Community Health Profiles

Regional (Area) Reports

State Data Sources:

Medicaid Agencies an important source of data since it is more up-to-date than CMS data sets. Examples Arizona, Washington, Oklahoma, Oregon.

Departments of Health. In states with large AIAN populations often have Indian specific data that is not available elsewhere.

Universities and Non-Profits: Examples

Robert Wood Johnson County level health ranking

University of Washington, Institute for Health Metrics and Evaluation

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Indian Data, from *Indian Country and CDC Working Together 2016.*

Stilwell, OK… has the lowest life expectancy in the country — just 56.3 years.
That means folks there are expected to die 22.5 years — an entire generation — earlier than the comparable national average of 78.8 years Sept 14, 2018…*Washington Post*.

Some of the health and socioeconomic disparities that face American Indians and Alaska Natives include:

- American Indians and Alaska Natives born today have a life expectancy that is 4.4 years less than all US races (73.7 years to 78.1 years, respectively).
- American Indians and Alaska Natives have the second highest infant mortality rate after non-Hispanic blacks.
- American Indians and Alaska Natives have the highest prevalence of diabetes in the United States, more than twice the prevalence of diabetes among non-Hispanic whites.
- American Indians and Alaska Natives have higher infectious disease death rates than non-Hispanic whites.
  - Some of the greatest infectious disease death rate disparities are found in remote and isolated regions of the United States, including Alaska, the Northern Plains, and Southwest regions. Remoteness, isolation, lack of adequate sanitation, and other factors contribute to these disparities.
  - Incidence rates of 14 of 26 notifiable infectious diseases were higher for American Indians and Alaska Natives compared to non-Hispanic whites.
- American Indian and Alaska Native youth and adults have the highest prevalence of commercial cigarette smoking among all racial or ethnic groups in the United States.
  - Cigarette smoking varies widely by region, with lower prevalence in the Southwest and higher prevalence in the Northern Plains and Alaska.
  - American Indians and Alaska Natives have the lowest rate of cigarette smoking quit attempts among all racial or ethnic groups in the United States.
- American Indian and Alaska Native adults are 50% more likely to have obesity than non-Hispanic white adults.
- American Indians and Alaska Natives have the highest percentage of current heavy alcohol users compared to other racial and ethnic groups in the United States.
- The suicide rate among American Indian and Alaska Native adolescents and young adults ages 15 to 34 is 1.5 times higher than the national average for that age group.
- Motor vehicle crashes are a leading cause of unintentional injury for American Indians and Alaska Natives ages 1 to 44. American Indian and Alaska Native adults are 1.5 times more likely to die in a crash than white or black Americans.
- More than 26% of American Indians and Alaska Natives lived in poverty in 2015, the highest rate of any racial group. For the nation as a whole, the poverty rate was 14.7%.
- The American Indian and Alaska Native high school graduation rate is 67%, the lowest of any racial or ethnic group across all US schools.

Despite historical and other traumas, American Indians and Alaska Natives—and much of their cultures, languages, and practices—have survived. During the 20th and 21st centuries, American Indians and Alaska Natives rebuilt their nations, adapted to cultural and economic pressures and opportunities, overcame adverse and destructive policies, and today are a growing, dynamic and resurgent part of the United States.

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Data Sets:

US Census
- American Community Survey
  - 1 year,
  - 5 year,
  - Small ‘n’ of American Indians and Alaska Natives

Vital Statistics
- Mortality
- Life Expectancy
- Cause of Death
  - Misclassification results in a bias with American Indian and Alaska Native underreported

Administrative Data
- Expenditures
- Scorecards, Benchmarks, Reports
- GPRA, Government Reporting and Results Act

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Data Visualizations

1. What is a data visualization?
2. How are they created?
3. Where does the data come from?
4. Examples of Visualizations from the US Census Am. Community Survey.
5. How can viewer also manipulate the data?
6. How are visualizations shared?

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Data Visualizations

- It is now possible to easily produce and provide data in a visual format that allows the viewer to further analyze the data online (or download).
- Software now allows you to visualize data by simply dragging and dropping data elements. I use Tableau software for this presentation.
- It is important to note that the viewing of the data is typically online, not in written reports, although data presentations can be downloaded.

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Digital Data Brief examples

Population
- State and County (1 yr and 5 yr ACS estimates)

Medicaid

Medicare

Health Status

Mortality
- Liver disease
- Drug Use
- Infectious Diseases (TB, HIV, HCV,)

Disease Prevalence-Diabetes

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AIAN Population

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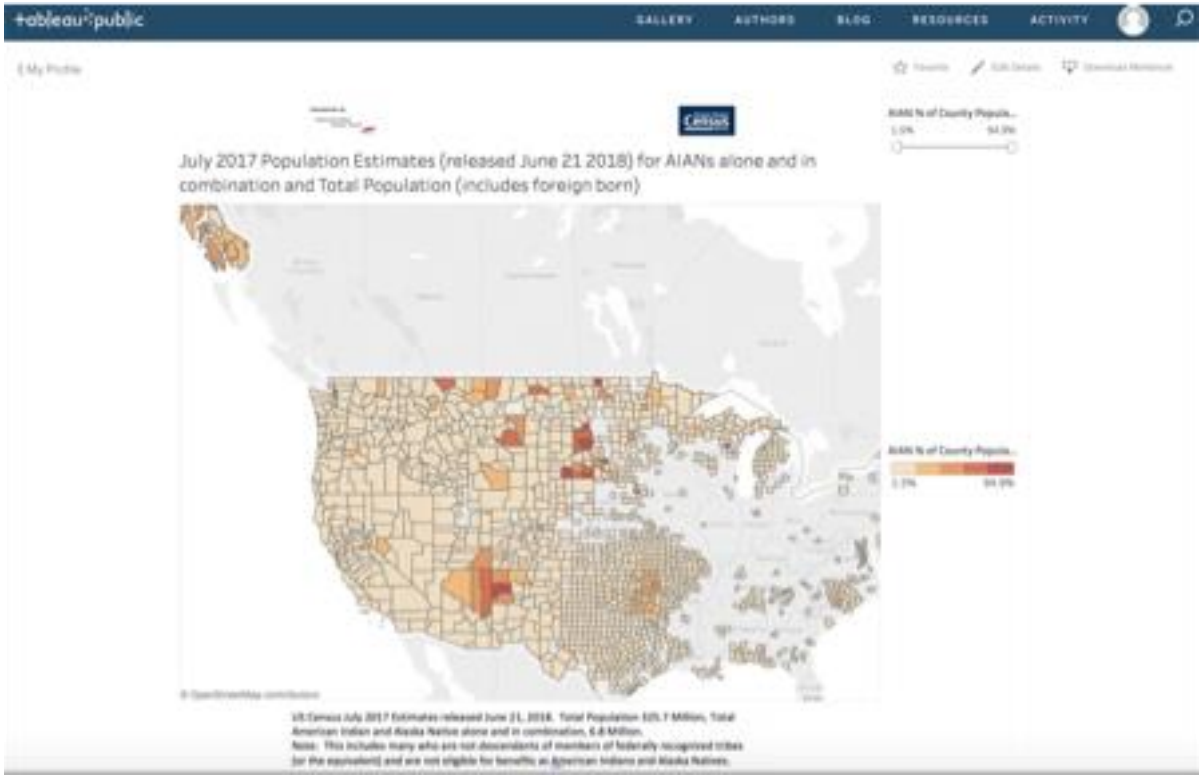
American Indian and Alaska Native Population



Visualization by
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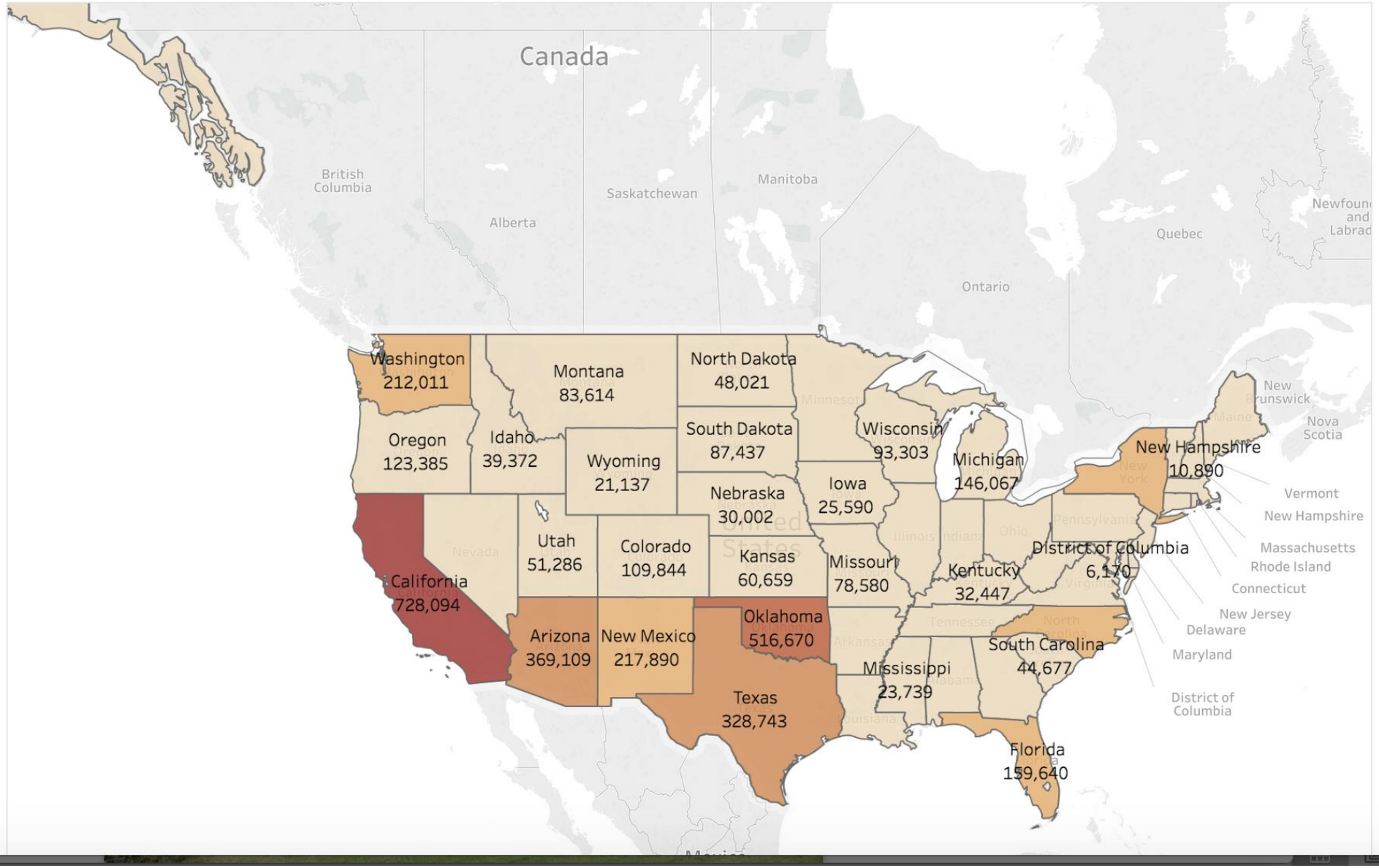
United States Census Bureau

American Community Survey
How It Works for Your Community

2016 ACS 5-yr Estimate of Population with Error Rate



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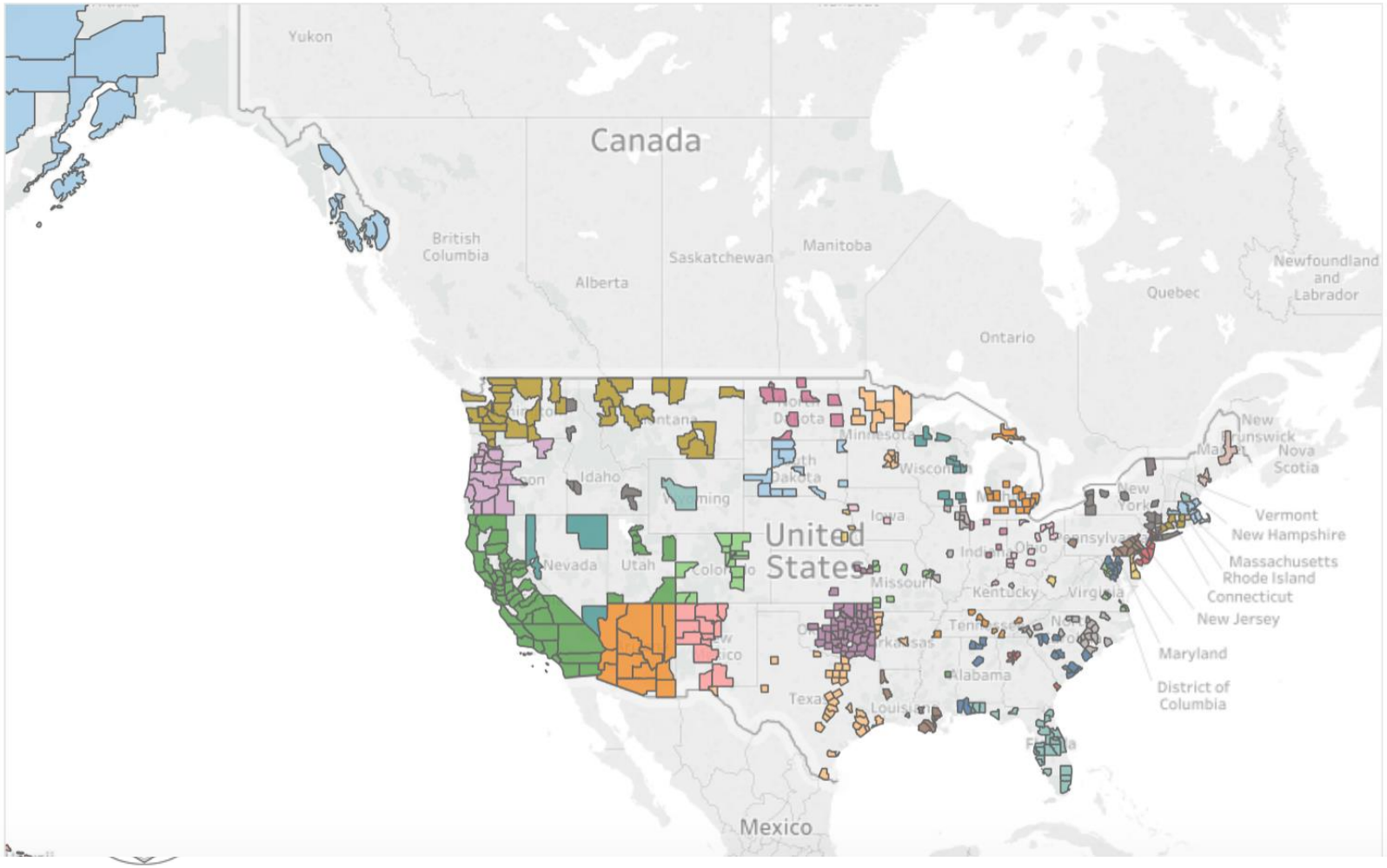
United States Census Bureau American Community Survey
How It Works for Your Community

Estimate; Total:

2112 156325

2016 5yr ACS Estimate of AIAN Population Filter set at 2,100 minimum, slide left to include all counties



- Alabama
- Alaska
- Arizona
- Arkansas
- California
- Colorado
- Connecticut
- Delaware
- District of Columbia
- Florida
- Georgia
- Hawaii
- Idaho
- Illinois
- Indiana
- Iowa
- Kansas
- Kentucky
- Louisiana
- Maine
- Maryland
- Massachusetts
- Michigan
- Minnesota
- Mississippi
- Missouri
- Montana
- Nebraska

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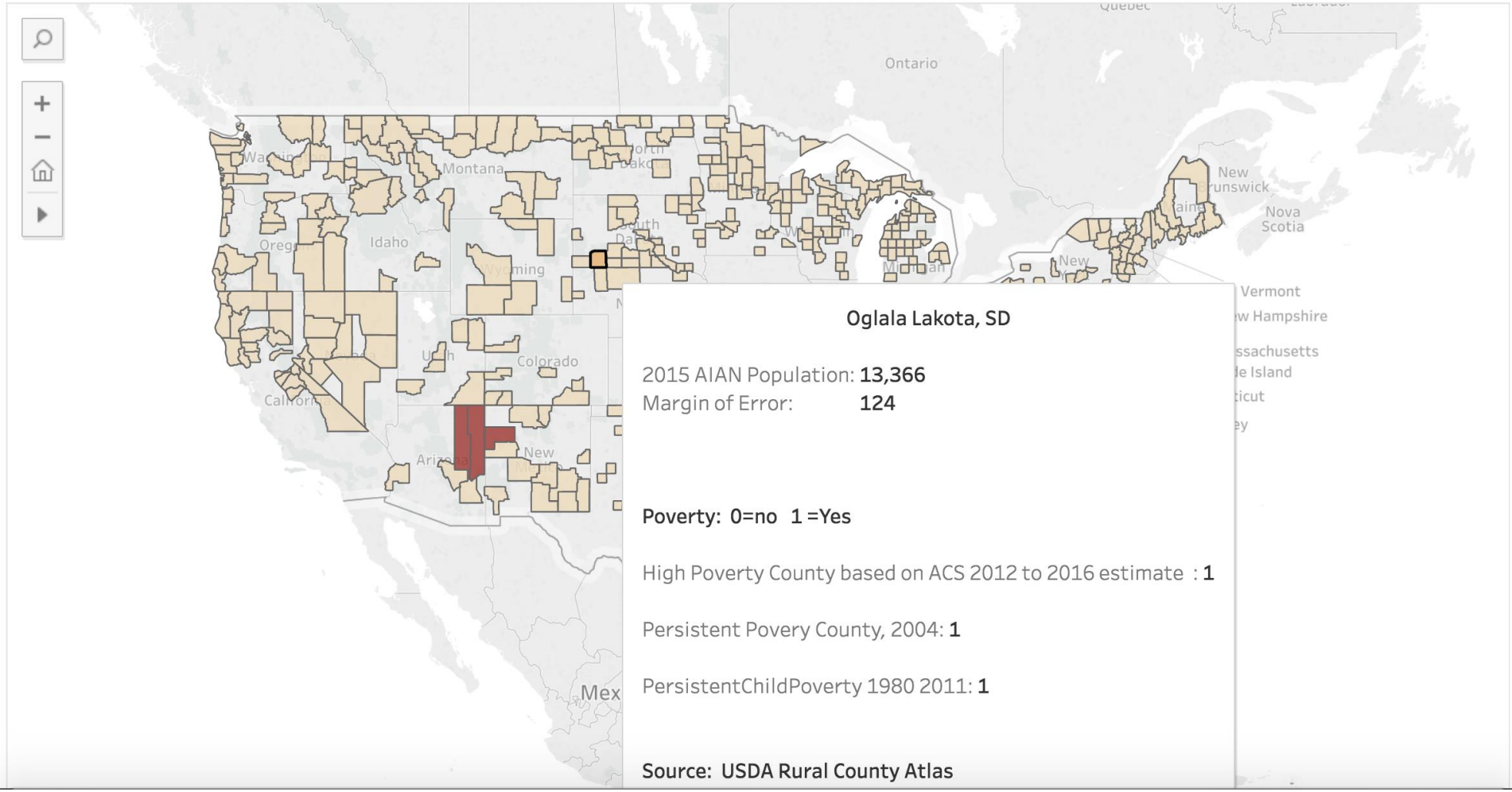
Are Rural Counties where 1.8 Million AIANs reside high poverty Counties?



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Health Insurance Status

MEDICAID AND MEDICARE

UNINSURED

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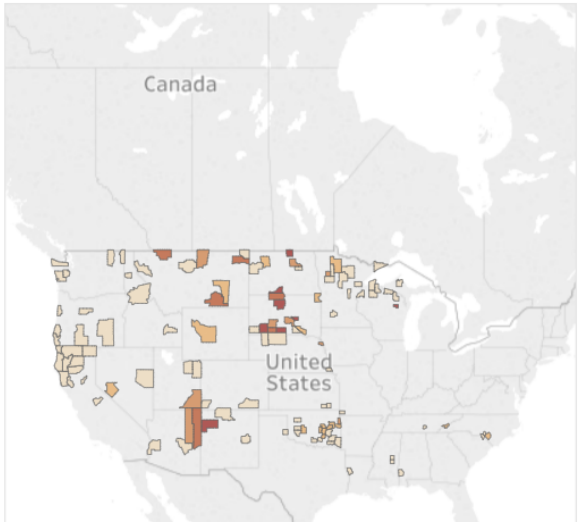
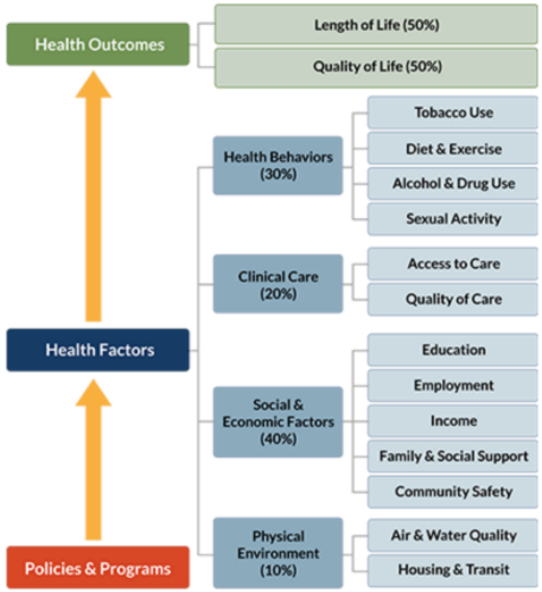
A close look at Health Outcomes / Factors in Counties with Indian Population over 4.5%

Health Factors and Counties with Large AIAN populations | Health ranking of state's counties | Quality of Life 4 | Length of Life 4 | Social and Economic Factors= 4 | Health Behavior = 4 | Clin

Are U of WI/ RWJ health outcomes/ factors better or worse for AIAN counties (1 is best and 4 is worst)? Filter is set at 4.5% AIAN.





AIAN population
93 59817

% Of County Population ...
4.5% 94.9%

Social and Economic Fact...
1 5

Quality of Life Quartile
1 5

Physical Environment Qu...
1 5

Length of Life Quartile
4 5

Health Behavior Quartile
1 5

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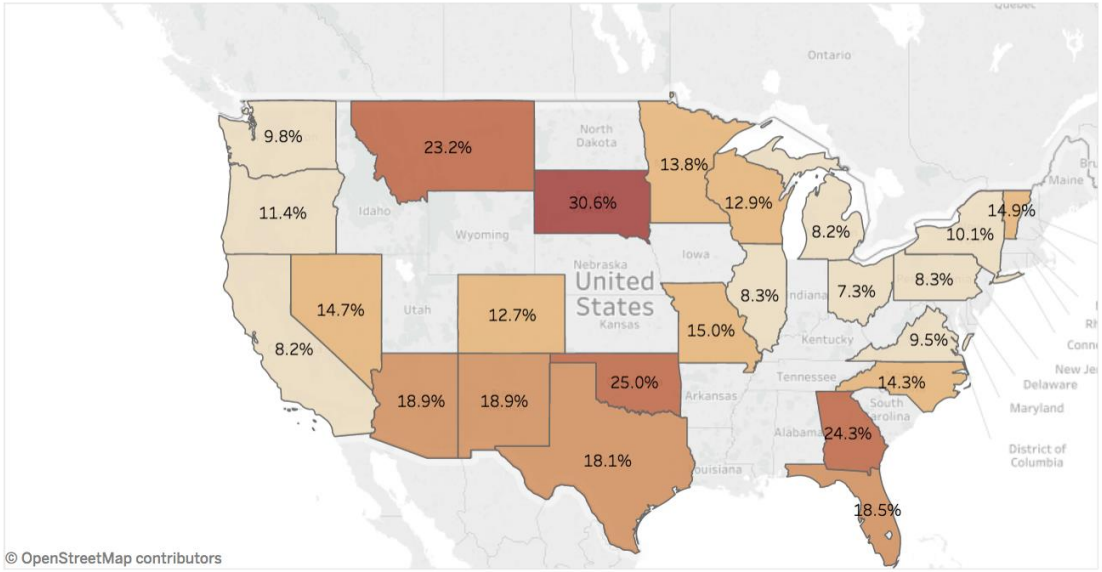
United States Census American Community Survey How It Works for Your Community

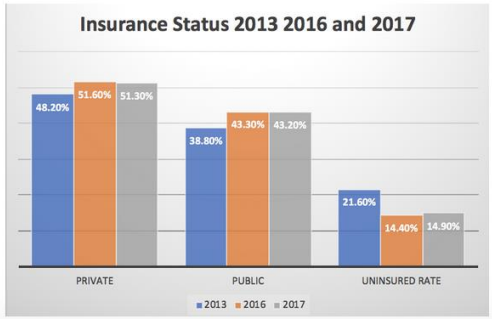
2017 American Community Survey Estimate of AIAN Population, Civilian Uninsured, and Private and Public Coverage (Sept 13, 2018 Data Release) 2017 Uninsured Rate

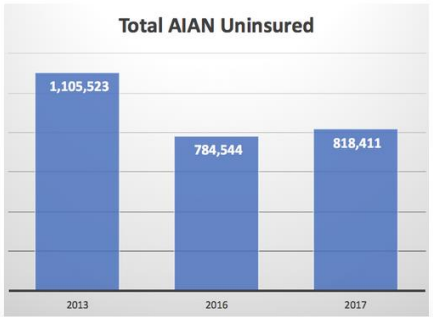


% With public coverage
31.5% 57.8%

% With private health in...
23.2% 67.4%

% No health insurance co...
7.3% 30.6%





% No health insurance co...
7.3% 30.6%

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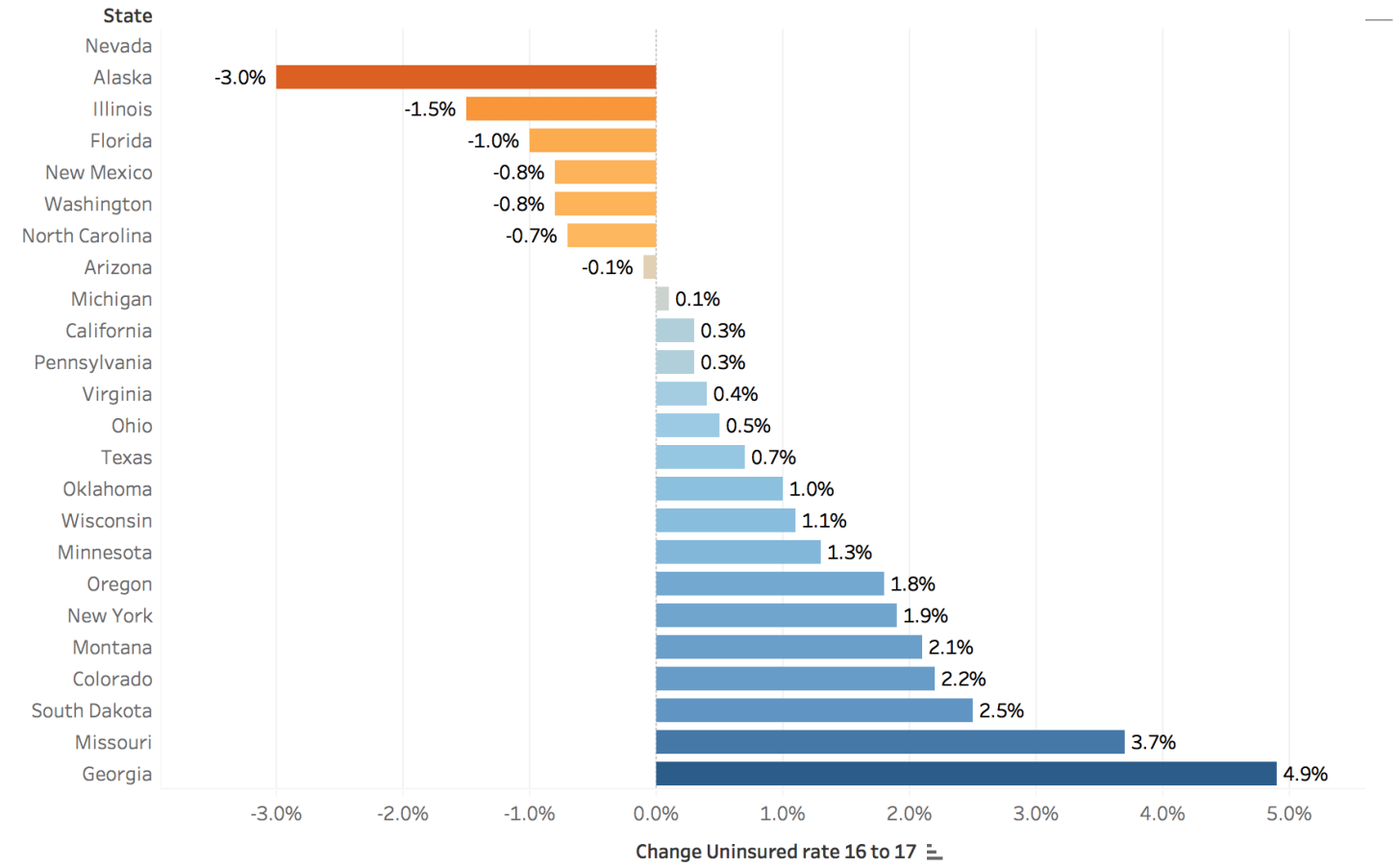
Change in rate of Uninsured 2016 to 2016



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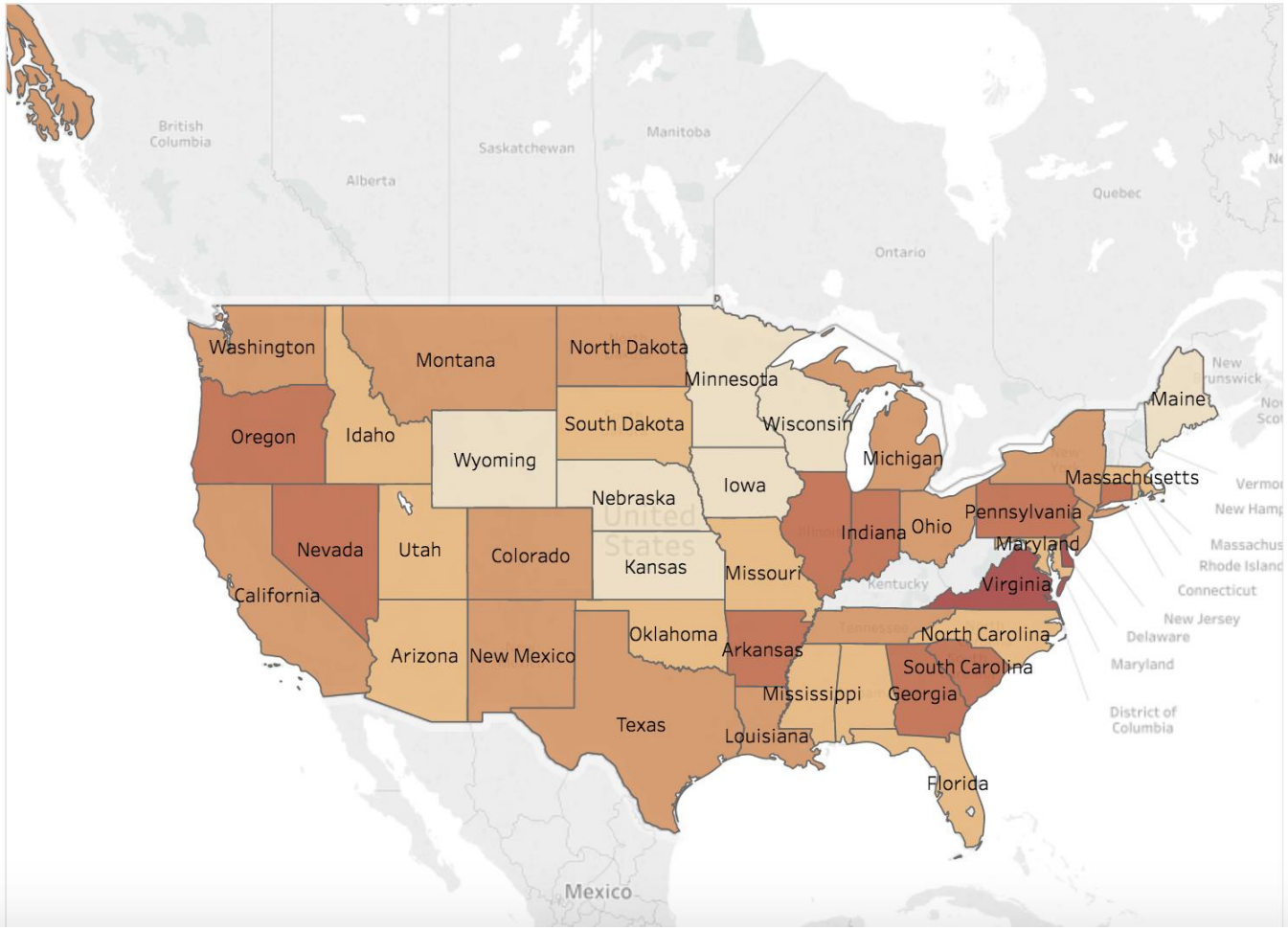
AIAN Medicaid Enrollment ACS 1-yr estimates 2010 to 2016 set for Total; with IHS access, without IHS Access

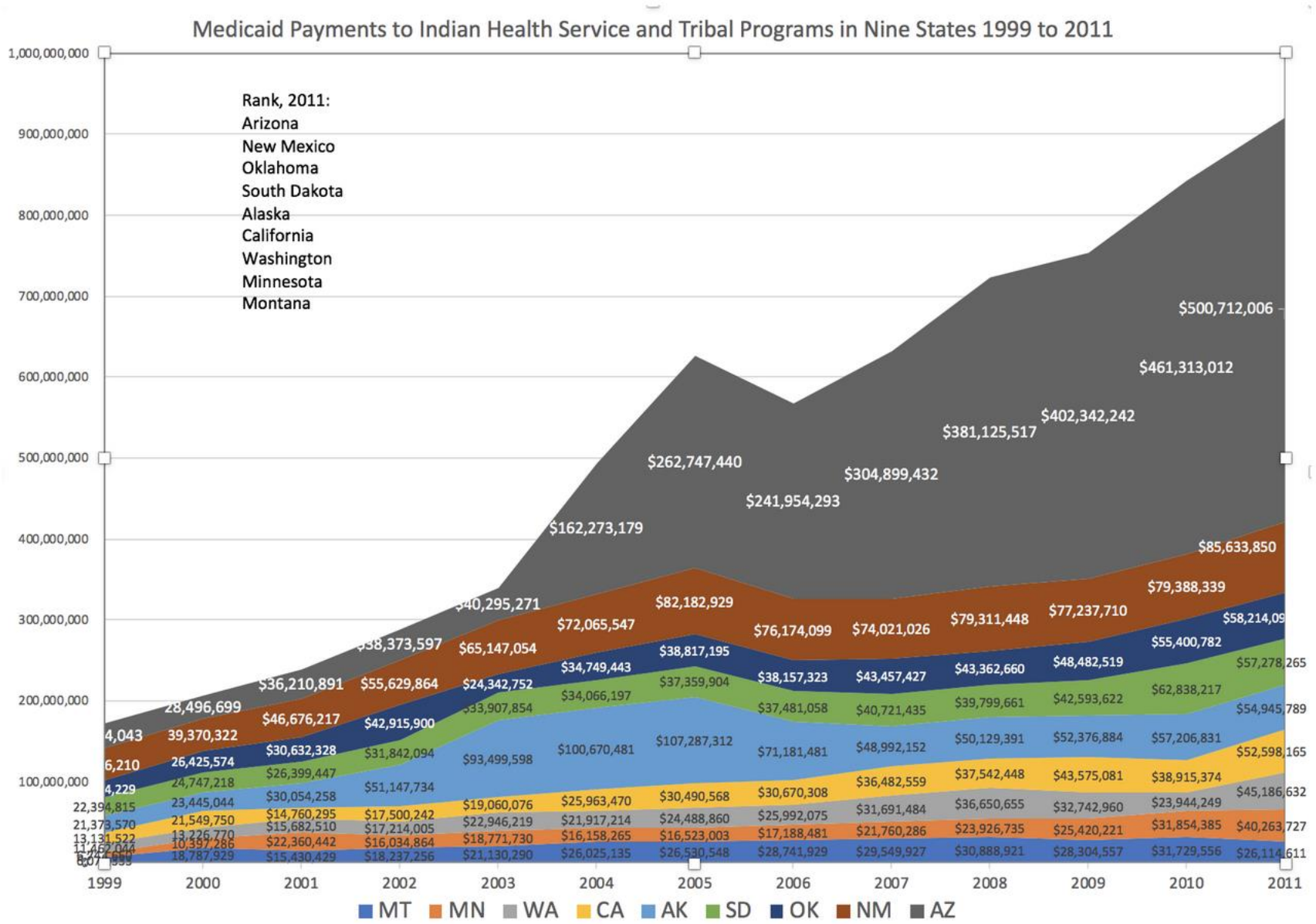


State 2016

- [ ] (All)
- [ ] Alabama
- [ ] Alaska
- [ ] Arizona
- [ ] Arkansas
- [ ] California
- [ ] Colorado
- [ ] Connecticut
- [ ] Delaware
- [x] ~~District of Columbia~~
- [ ] Florida
- [ ] Georgia
- [ ] Hawaii
- [ ] Idaho
- [ ] Illinois
- [ ] Indiana
- [ ] Iowa
- [ ] Kansas
- [x] ~~Kentucky~~
- [ ] Louisiana
- [ ] Maine
- [ ] Maryland
- [ ] Massachusetts
- [ ] Michigan
- [ ] Minnesota
- [ ] Mississippi
- [ ] Missouri
- [ ] Montana
- [ ] Nebraska
- [ ] Nevada
- [x] ~~New Hampshire~~
- [ ] New Jersey
- [ ] New Mexico
- [ ] New York
- [ ] North Carolina
- [ ] North Dakota

Visualization by National Indian Health Board

Source Dataset at: Medicaid. Keeping America Healthy



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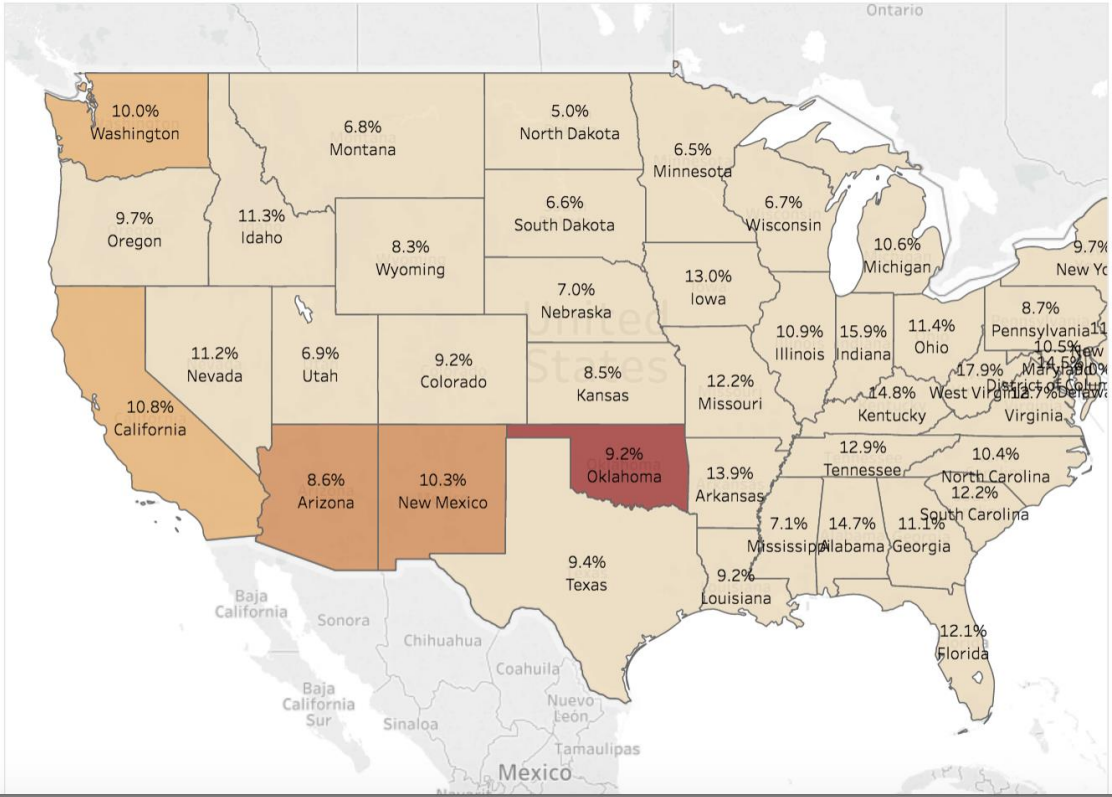
AIANs 65 years and older by IHS and Medicare Status 2016

What % of AIANs are 65 and older and do they have Medicare?	How many AIANs aer there with Access to IHS and how many of them have Medicare?	What % of ALL AIANs are 65 and older and what % with IHS access are 65 and older?	121,000 of 126,000 65 and older with IHS have Medicare



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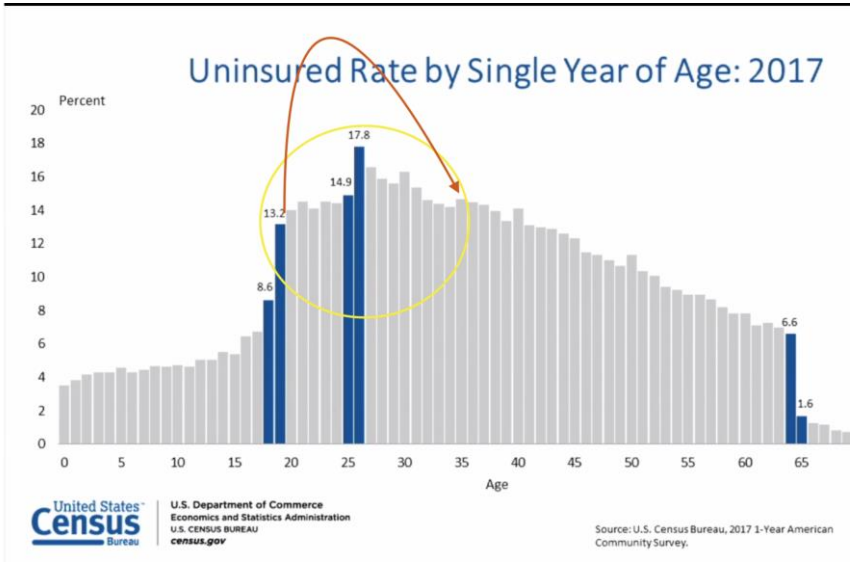

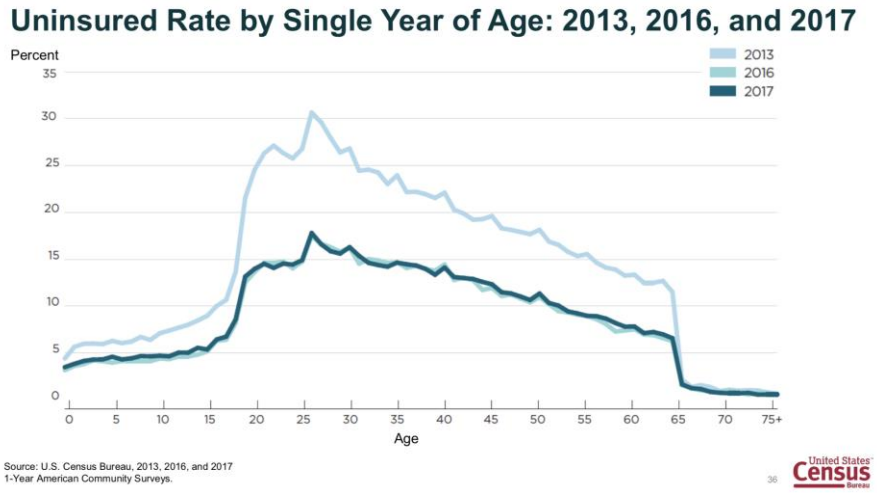

National Indian

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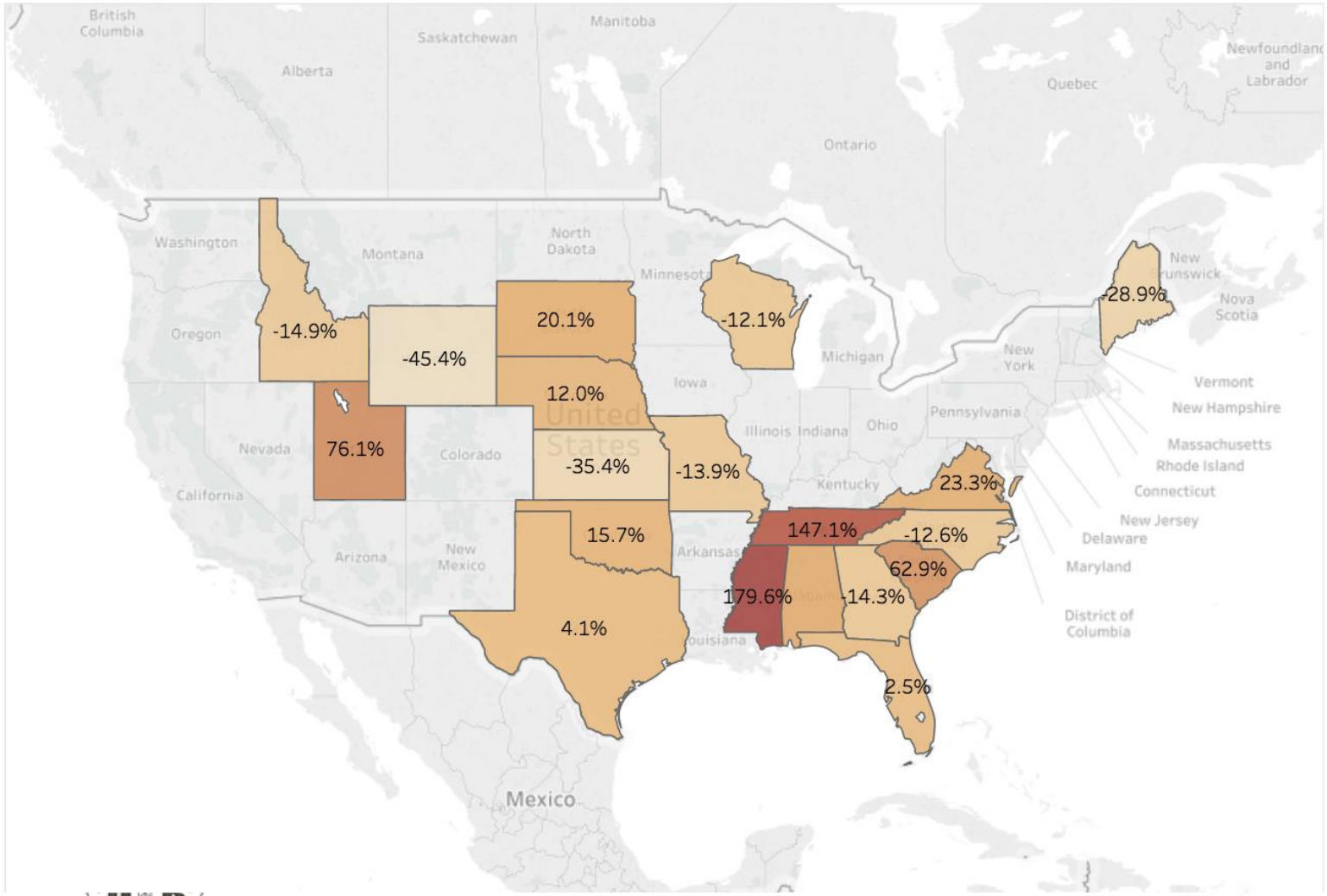
United States Census Bureau American Community Survey
How It Works for Your Community

19 to 35 year old AIANs Medicaid Enrollment in States that did not Expand Medicaid: Increase in Medicaid 2012 to 2016

Medicaid Expansion?
- [ ] (All)
- [x] no
- [ ] yes

% Change Medicaid 12-16
-45.4% 179.6%



The Red Feather of Hope and Healing

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United States Census Bureau | American Community Survey
How It Works for Your Community

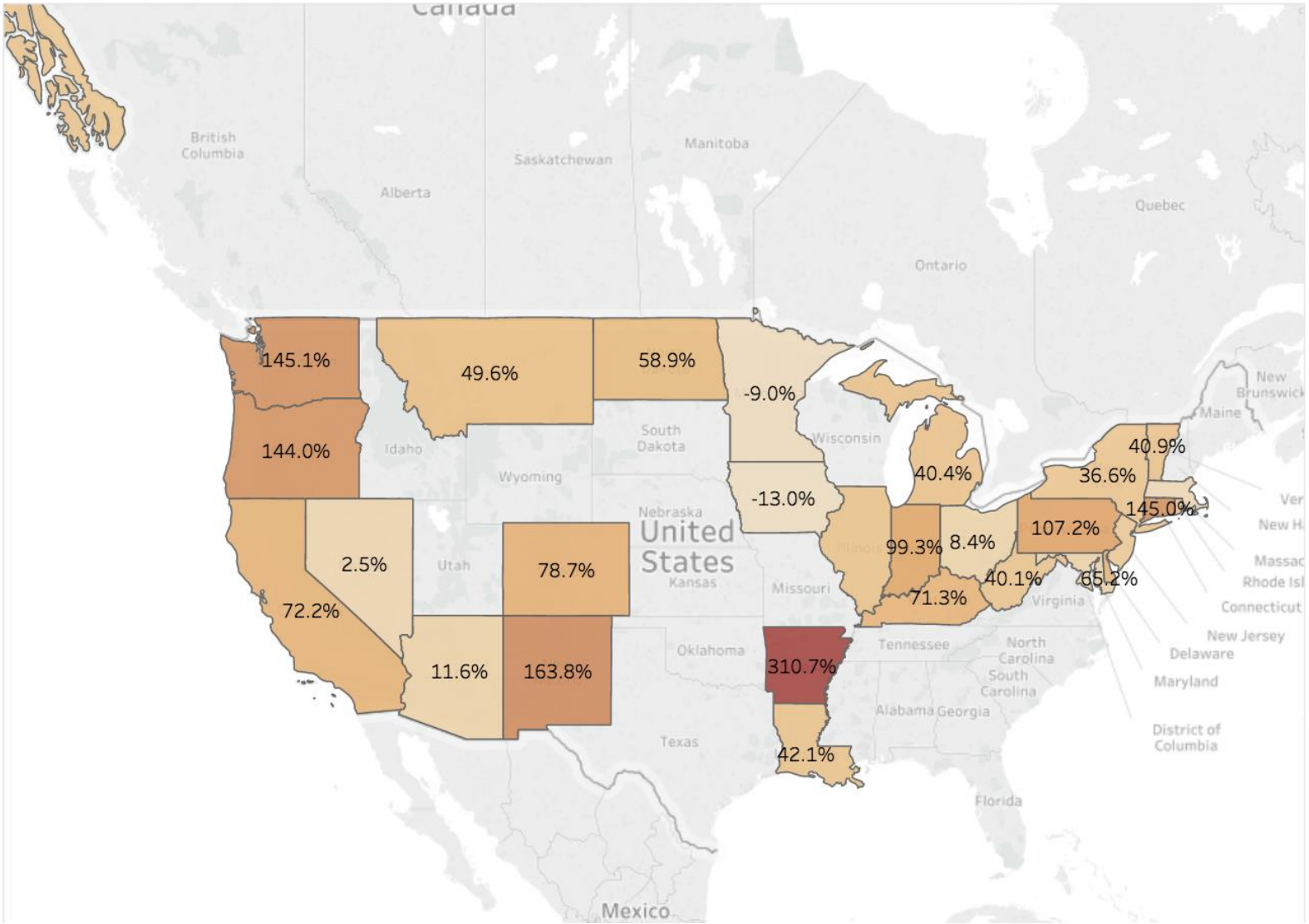
19 to 35 year old AIANs in Medicaid Expansion States: Increase in Medicaid 2012 to 2016 (VT is US 40.9%)

Medicaid Expansion?

- [ ] (All)
- [ ] no
- [x] yes

% Change Medicaid 12-16

-13.0% 310.7%



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Health Status: Mortality, Life Expectancy,

CAUSE OF DEATHS: DRUG USE AND ALCOHOL

CHRONIC CONDITIONS, DIABETES

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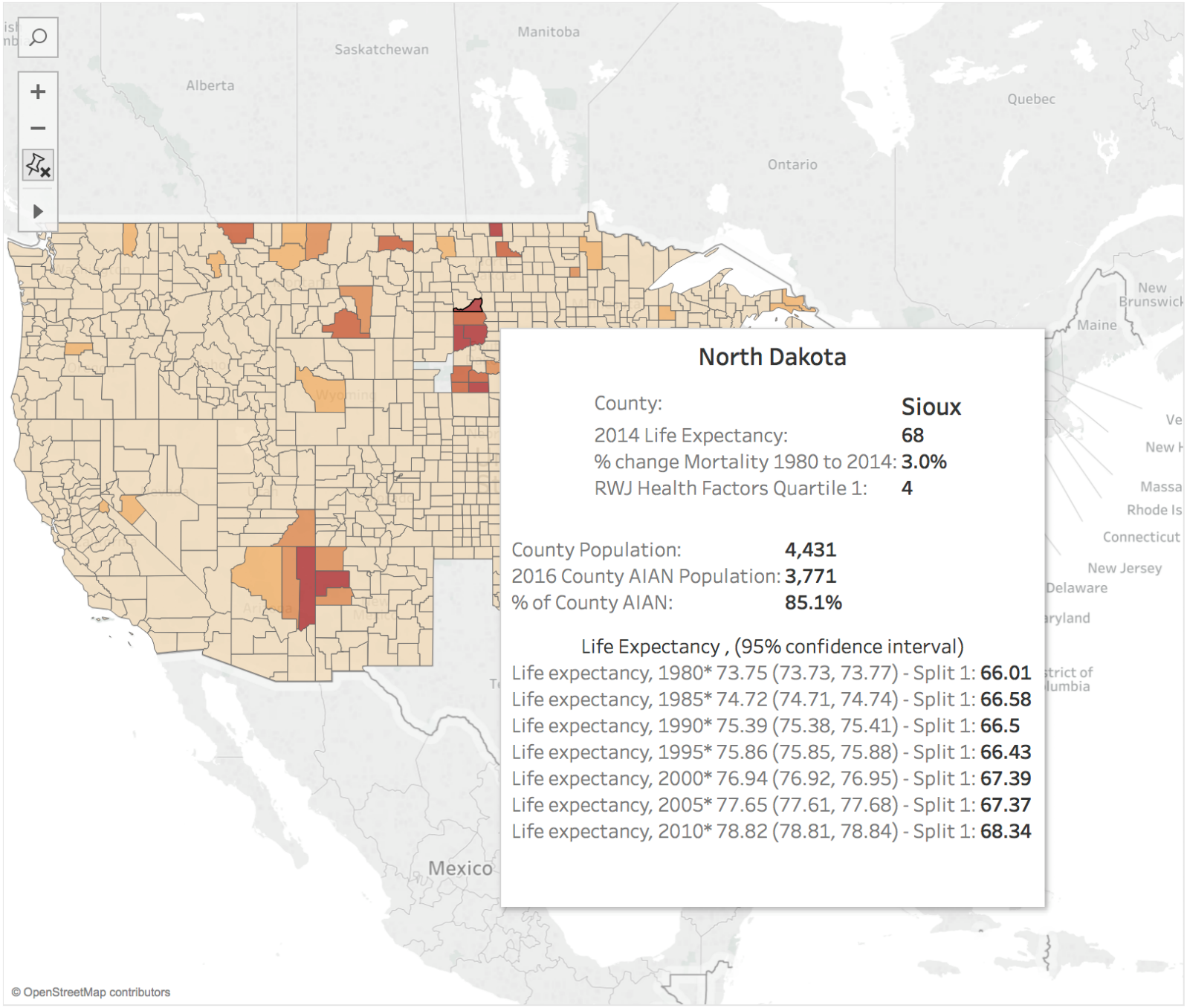
1980 to 2014 Mortality AIAN population



North Dakota

County:	**Sioux**
2014 Life Expectancy:	**68**
% change Mortality 1980 to 2014:	**3.0%**
RWJ Health Factors Quartile 1:	**4**
County Population:	**4,431**
2016 County AIAN Population:	**3,771**
% of County AIAN:	**85.1%**

Life Expectancy , (95% confidence interval)

Life expectancy, 1980* 73.75 (73.73, 73.77) - Split 1: **66.01**
Life expectancy, 1985* 74.72 (74.71, 74.74) - Split 1: **66.58**
Life expectancy, 1990* 75.39 (75.38, 75.41) - Split 1: **66.5**
Life expectancy, 1995* 75.86 (75.85, 75.88) - Split 1: **66.43**
Life expectancy, 2000* 76.94 (76.92, 76.95) - Split 1: **67.39**
Life expectancy, 2005* 77.65 (77.61, 77.68) - Split 1: **67.37**
Life expectancy, 2010* 78.82 (78.81, 78.84) - Split 1: **68.34**

State

- [ ] (All)
- [x] Alabama
- [x] Arizona
- [ ] Arkansas
- [x] California
- [x] Colorado
- [ ] Connecticut
- [ ] Delaware
- [ ] District of Colum...
- [ ] Florida
- [ ] Georgia
- [ ] Hawaii
- [x] Idaho
- [ ] Illinois
- [ ] Indiana
- [x] Iowa
- [x] Kansas
- [ ] Kentucky
- [x] Louisiana
- [ ] Maine
- [ ] Maryland
- [ ] Massachusetts
- [x] Michigan
- [x] Minnesota

2014 Life Expectancy

67.00 — 86.00

% of County AIAN

0.0% — 95.0%

ATTR(% of County AIAN)

0.0% — 88.0%

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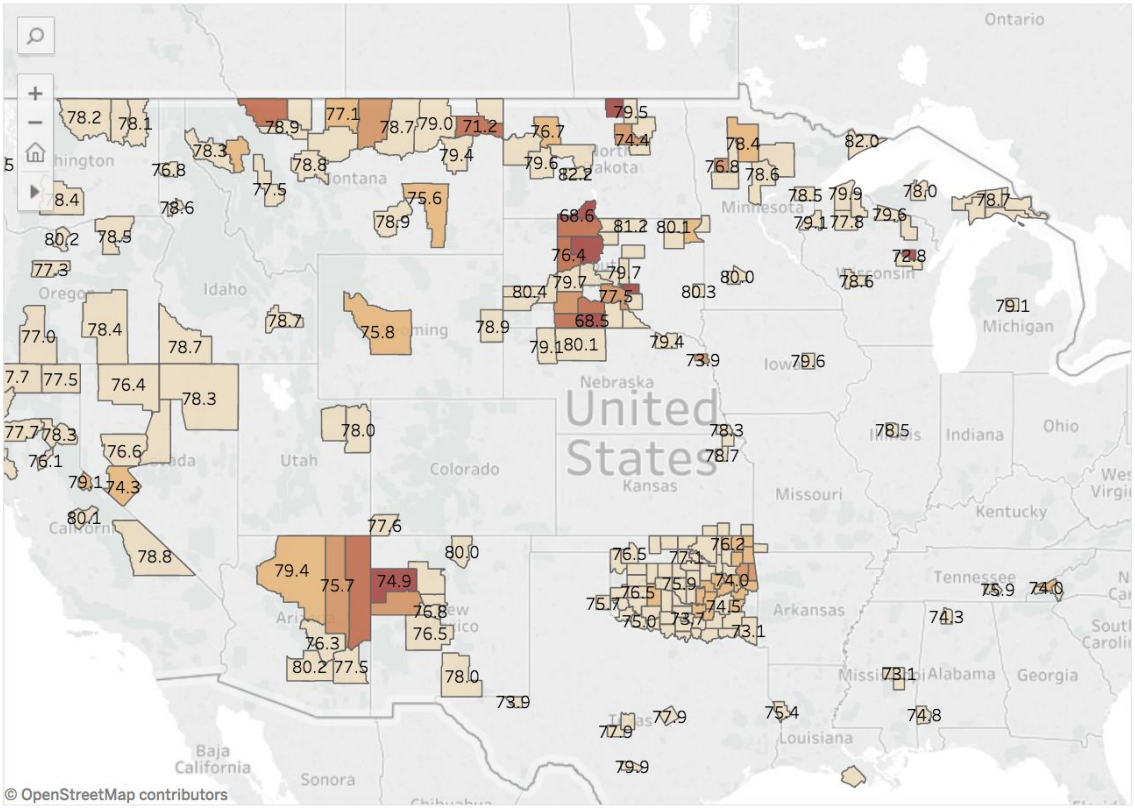
United States Census Bureau American Community Survey How It Works for Your Community

Source Dataset at: IHME | University of Washington

% Change
-3.00 18.30

US life expectancy 1980 to 2014 with % Change. US 2014 life expectancy is 79.08 years old (all races). US Counties with filter set at minimum 5% of population American Indians and Alaska Natives.



AIAN Population
0 156325

% AIAN
5.0% 94.4%

2014 Life Expectancy
66.8 86.8

% AIAN
5.0% 94.4%

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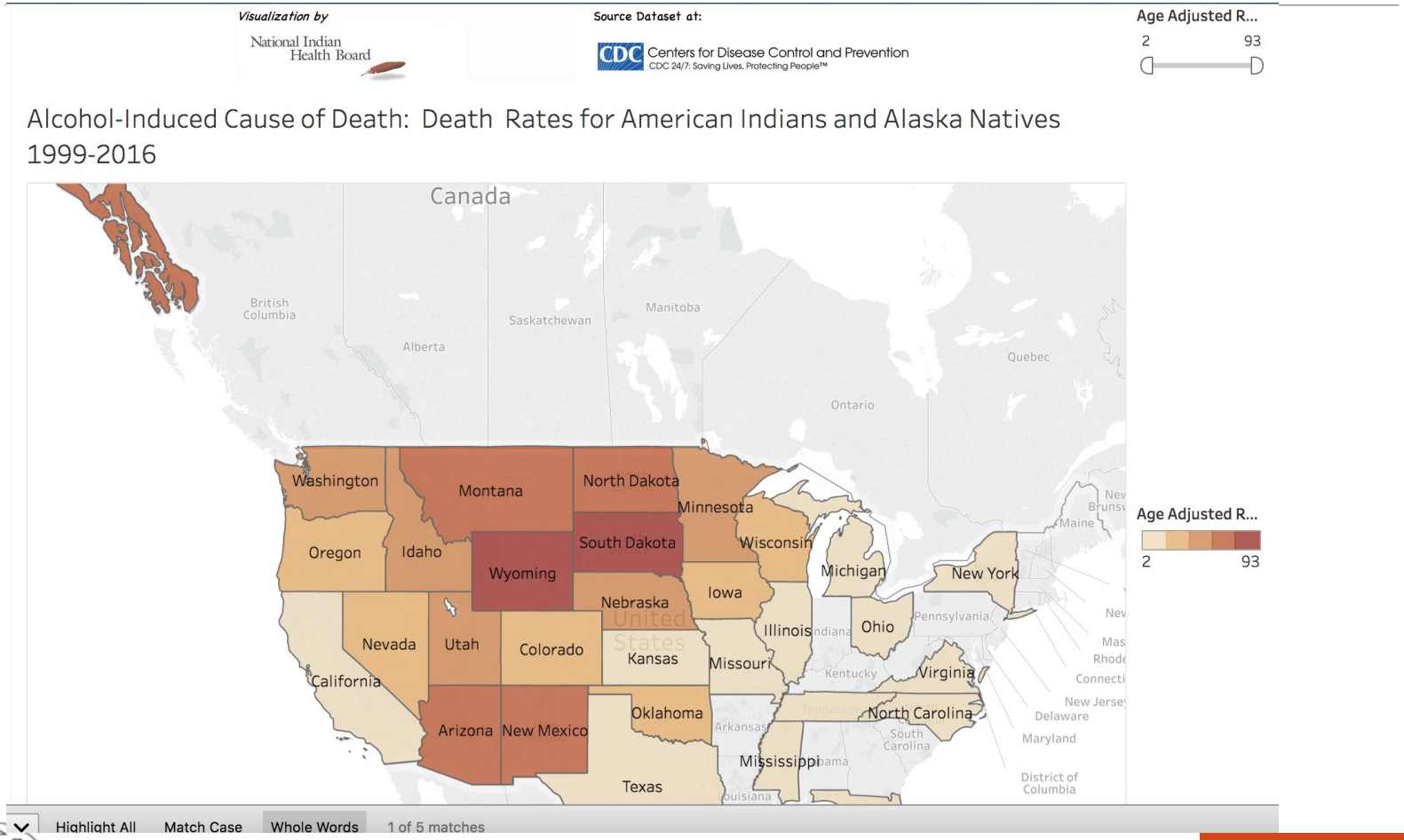
CDC 2015 US Alcohol Death Rate is 9.1 per 100,000



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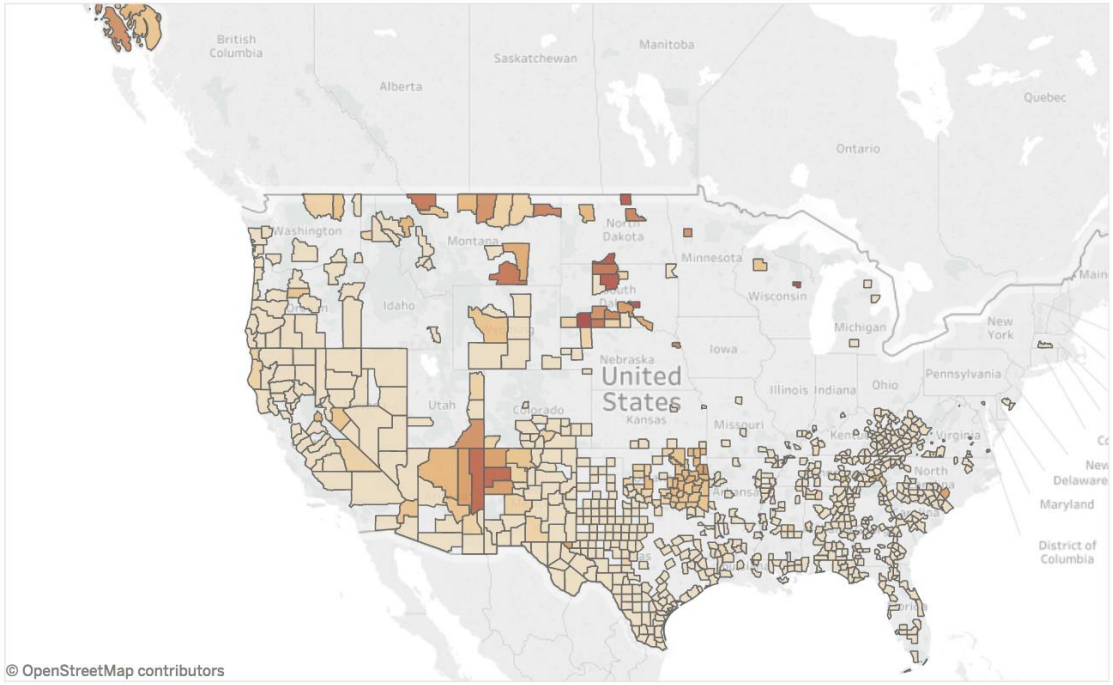
Visualization by National Indian Health Board

Source Dataset at: IHME | UNIVERSITY of WASHINGTON

Institute for Health Metrics and Evaluation (IHME). US Health Map Data Visualization. Seattle, WA: IHME, University of Washington, 2018. Available from http://www.healthdata.org/data-visualization/us-health-map. Accessed June 19, 2018.

Mortality Rate, 2014
21.0 192.7

Are deaths from Cirrhosis and LIver Disease higher in Counties with large AIAN populations? Mortality Rates for Cirrhosis and Liver Disease All Races (Filter set at 21 deaths per 100,000 Twice National rate 10.7 in 2016)



% change 1980 to2014
-78.0% 193.0%

County Pop % AIAN (2015)
0.0% 605.6%

% Aian
0.0% 92.6%

CDC Centers for Disease Control and Prevention
CDC 24/7: Saving Lives, Protecting People™

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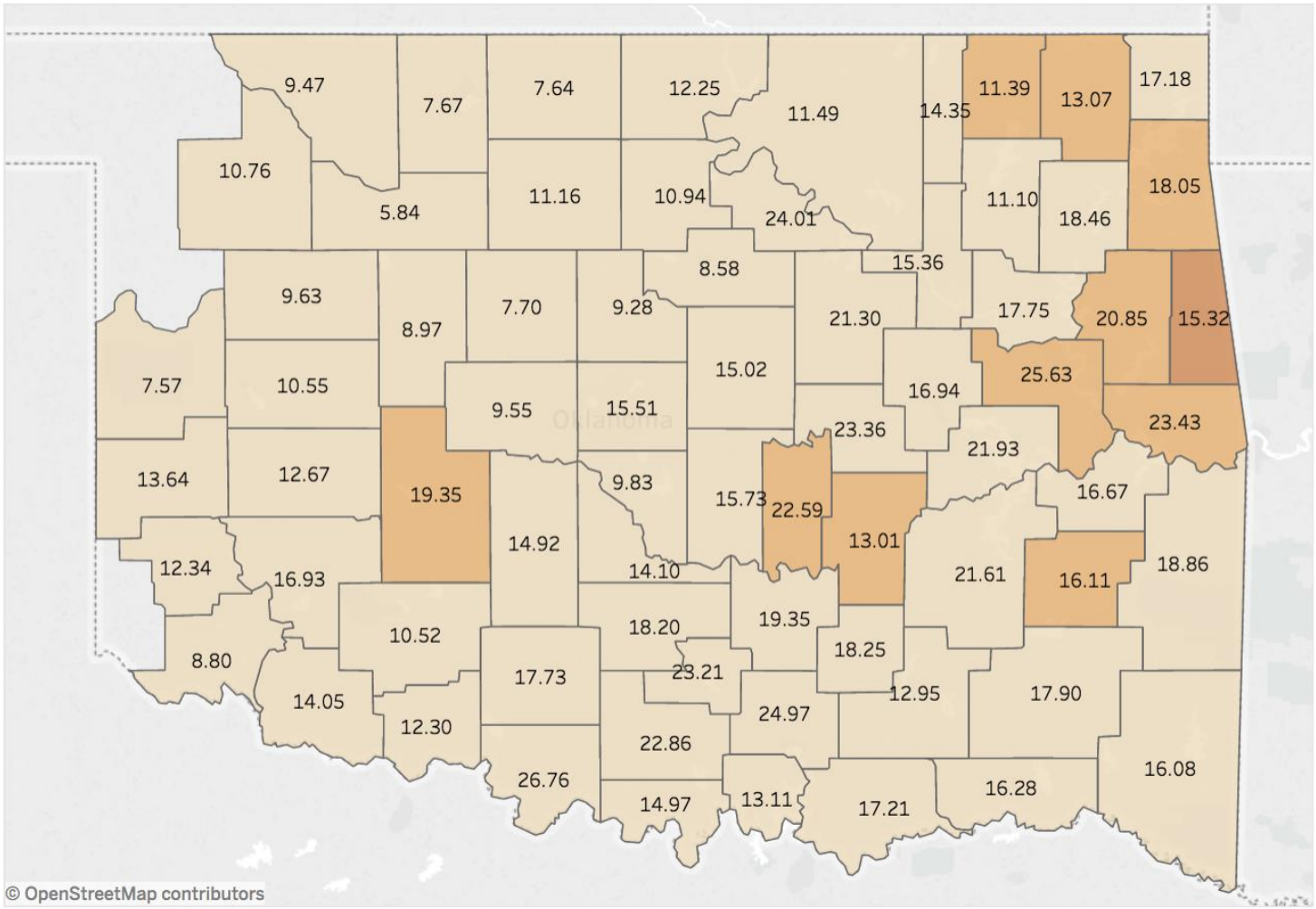
Source Dataset at:
IHME | UNIVERSITY of WASHINGTON

1. IHME 2014 Drug Use Mortality Rate (for all races, US avg 10.37) by County for CHSDA Counties with 2015 AIAN Alone and In Combination Population and % of County Population



United States Substance Use Disorders and Intentional Injuries Mortality Rates by County 1980-2014 03/2018

Institute for Health Metrics and Evaluation
2301 Fifth Ave., Suite 600, Seattle, WA 98121, USA
Tel: +1.206.897.2800 Fax: +1.206.897.2899

Favorite Edit Details

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Institute for Health Metrics and Evaluation (IHME). **US Health Map**. Seattle, WA: IHME, University of Washington, 2016. Available from http://vizhub.healthdata.org/subnational/usa.

Downloaded by Ed Fox, Access date: July, 2018.

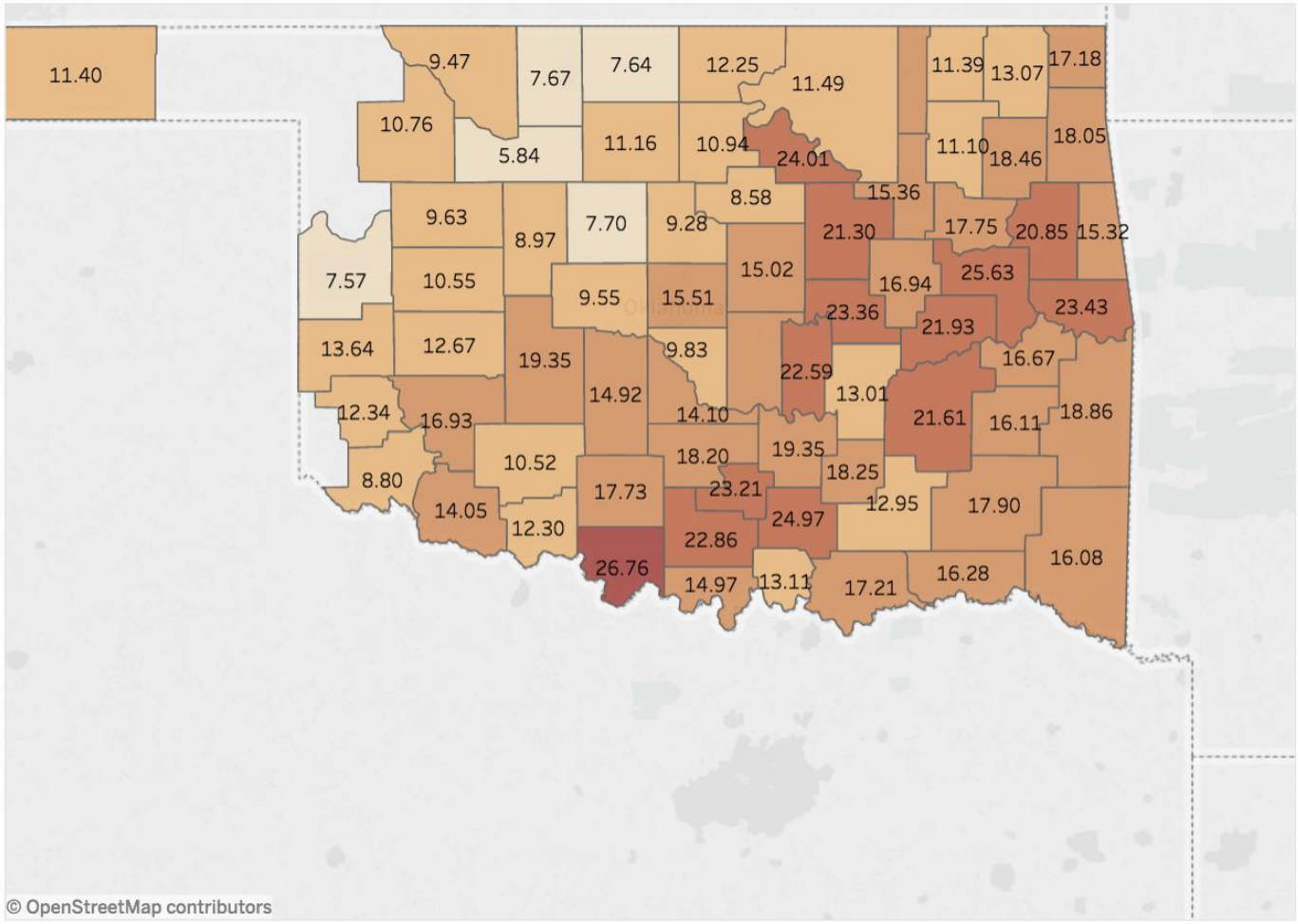
Source Dataset at:

IHME | UNIVERSITY of WASHINGTON

IHME 2014 Drug Use Mortality Rate (for all races, US avg 10.37) by County for CHSDA Counties with 2015 AIAN Alone and In Combination Population and % of County Population

IHME Drug Use Mortality Rate...

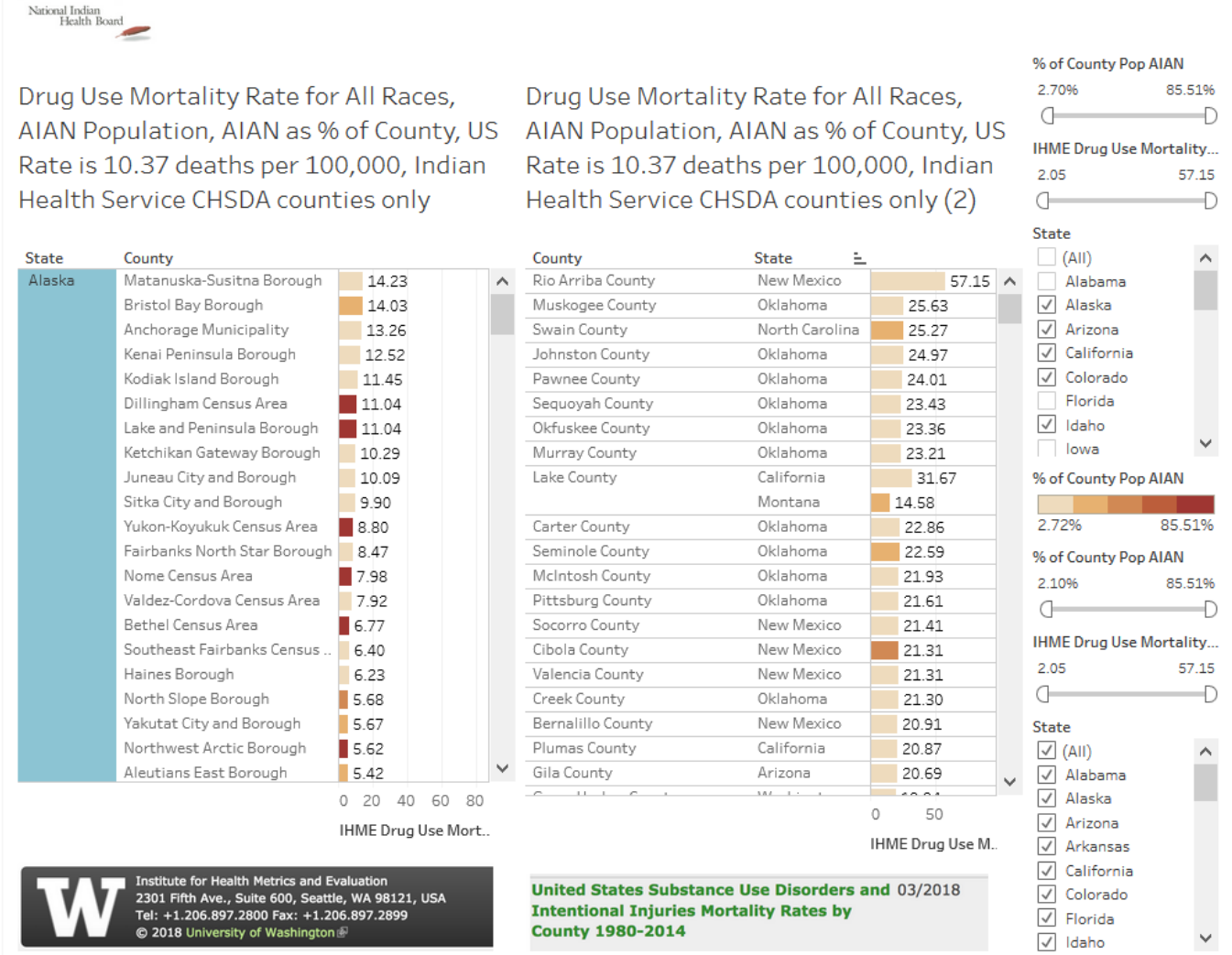
2.05 40.00



IHME Drug Use Mortality Rate...

2.05 31.67

United States Substance Use Disorders and 03/2018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Drug Use Mortality Rate for All Races, AIAN Population, AIAN as % of County, US Rate is 10.37 deaths per 100,000, Indian Health Service CHSDA counties only
Drug Use Mortality Rate for All Races, AIAN Population, AIAN as % of County, US Rate is 10.37 deaths per 100,000, Indian Health Service CHSDA counties only (2)
State
County
Alaska
Matanuska-Susitna Borough 14.23
Bristol Bay Borough 14.03
Anchorage Municipality 13.26
Kenai Peninsula Borough 12.52
Kodiak Island Borough 11.45
Dillingham Census Area 11.04
Lake and Peninsula Borough 11.04
Ketchikan Gateway Borough 10.29
Juneau City and Borough 10.09
Sitka City and Borough 9.90
Yukon-Koyukuk Census Area 8.80
Fairbanks North Star Borough 8.47
Nome Census Area 7.98
Valdez-Cordova Census Area 7.92
Bethel Census Area 6.77
Southeast Fairbanks Census .. 6.40
Haines Borough 6.23
North Slope Borough 5.68
Yakutat City and Borough 5.67
Northwest Arctic Borough 5.62
Aleutians East Borough 5.42
0 20 40 60 80
IHME Drug Use Mort..
County
State
Rio Arriba County New Mexico 57.15
Muskogee County Oklahoma 25.63
Swain County North Carolina 25.27
Johnston County Oklahoma 24.97
Pawnee County Oklahoma 24.01
Sequoyah County Oklahoma 23.43
Okfuskee County Oklahoma 23.36
Murray County Oklahoma 23.21
Lake County California 31.67
Montana 14.58
Carter County Oklahoma 22.86
Seminole County Oklahoma 22.59
McIntosh County Oklahoma 21.93
Pittsburg County Oklahoma 21.61
Socorro County New Mexico 21.41
Cibola County New Mexico 21.31
Valencia County New Mexico 21.31
Creek County Oklahoma 21.30
Bernalillo County New Mexico 20.91
Plumas County California 20.87
Gila County Arizona 20.69
0 50
IHME Drug Use M..
% of County Pop AIAN
2.70% 85.51%
IHME Drug Use Mortality...
2.05 57.15
State
(All)
Alabama
Alaska
Arizona
California
Colorado
Florida
Idaho
Iowa
% of County Pop AIAN
2.72% 85.51%
% of County Pop AIAN
2.10% 85.51%
IHME Drug Use Mortality...
2.05 57.15
State
(All)
Alabama
Alaska
Arizona
Arkansas
California
Colorado
Florida
Idaho
Institute for Health Metrics and Evaluation
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United States Substance Use Disorders and Intentional Injuries Mortality Rates by County 1980-2014
03/2018

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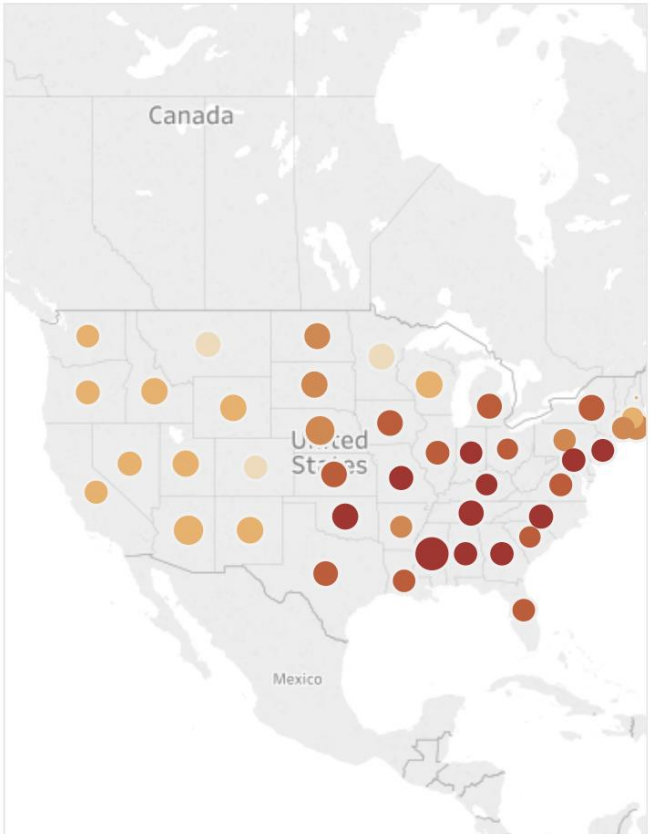
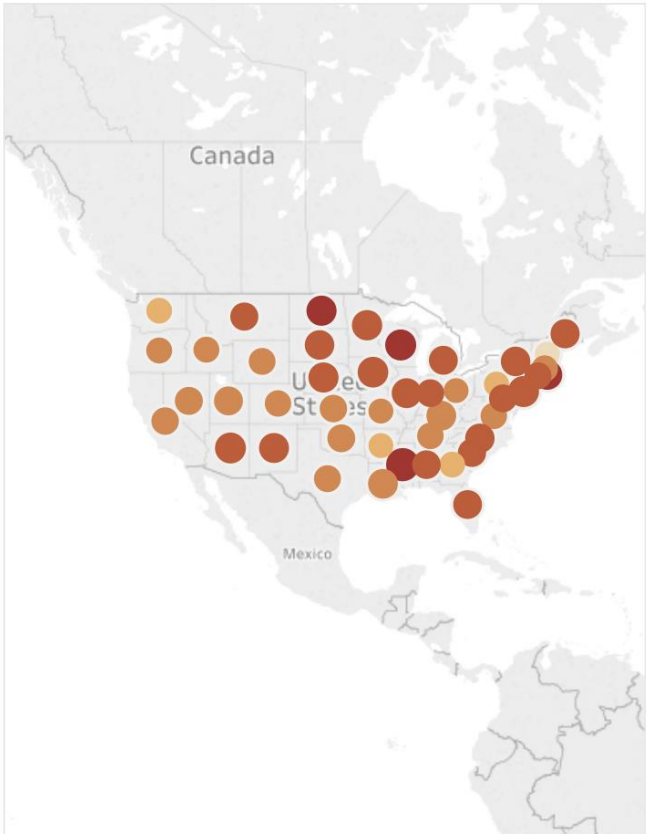
Medicare

Diabetes Prevalence 2007 to 2015 for AIANs under 65 years old



Diabetes Prevalence 2007 to 2015 Medicare AIANs 65 and older



Diabetes AIAN Less than 65 Y...
15.48 55.76

Diabetes AIAN 65 Years and O...
19.97 55.84

Diabetes American Indians/Ala...
17.83 51.55

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Visualization by

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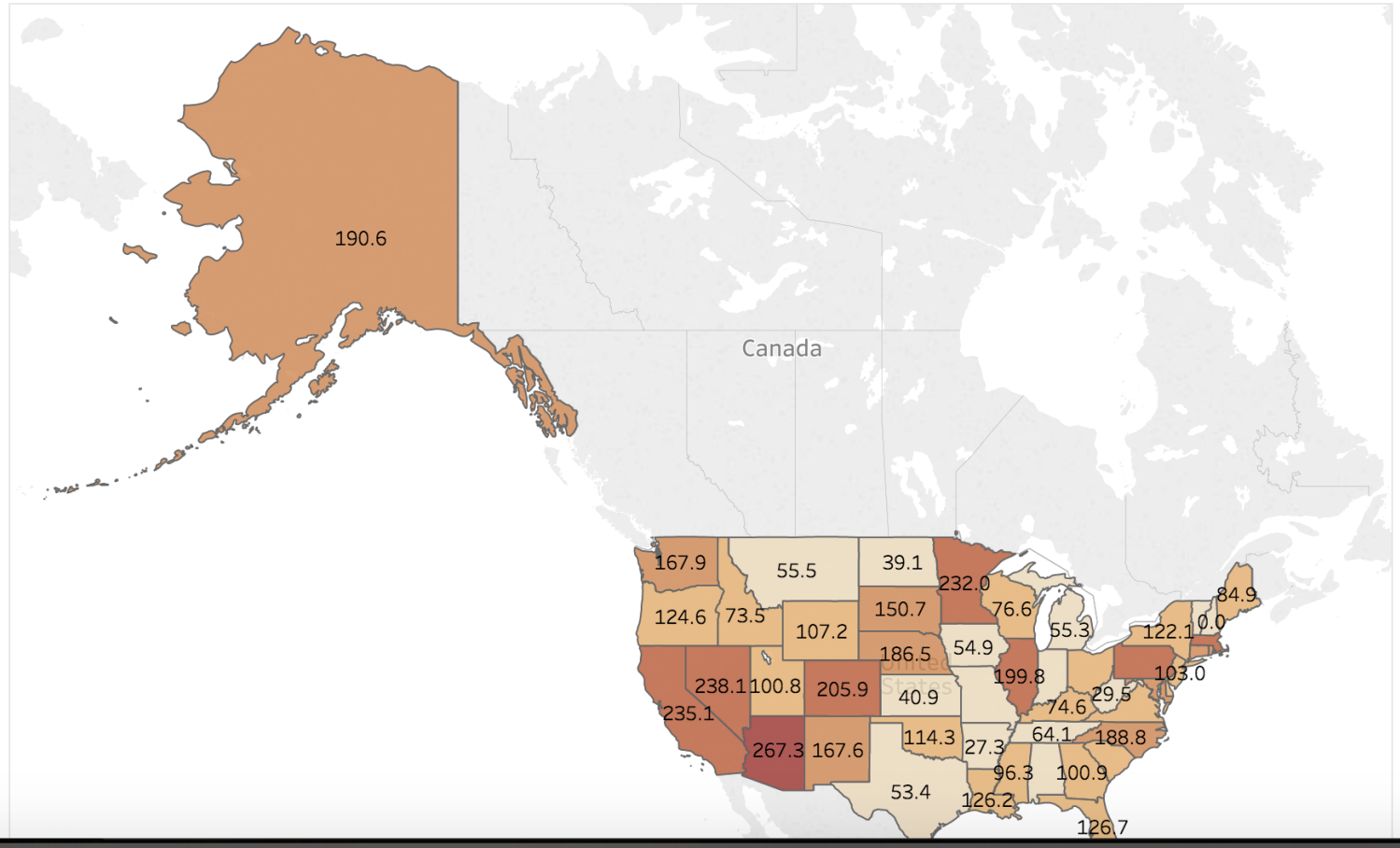
Source Dataset at:

CDC Centers for Disease Control and Prevention
CDC 24/7: Saving Lives, Protecting People™

American Indians and Alaska Natives HIV Prevalence and HIV Diagnosis, 2015 Cases and Rate per 100,000



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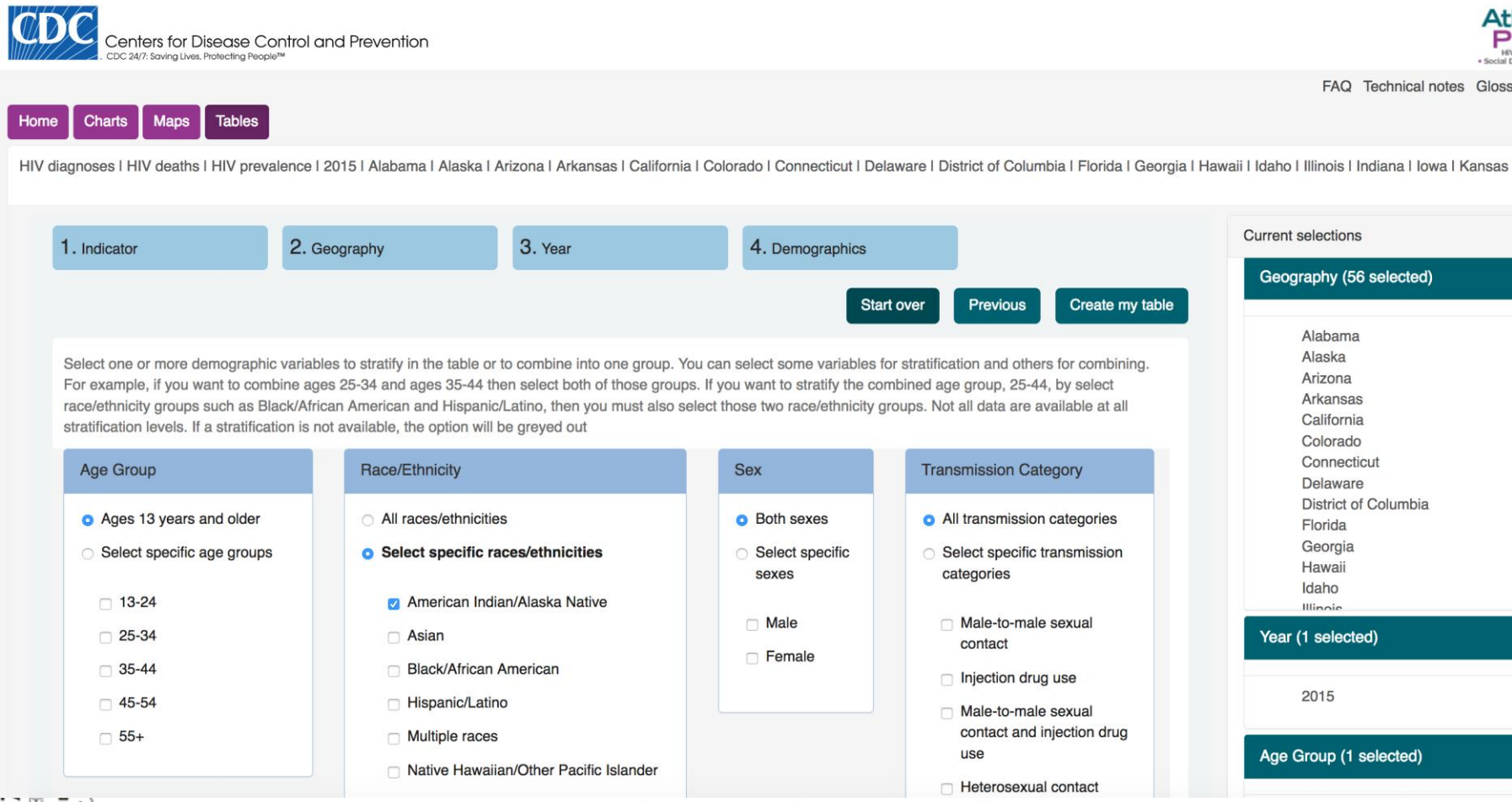

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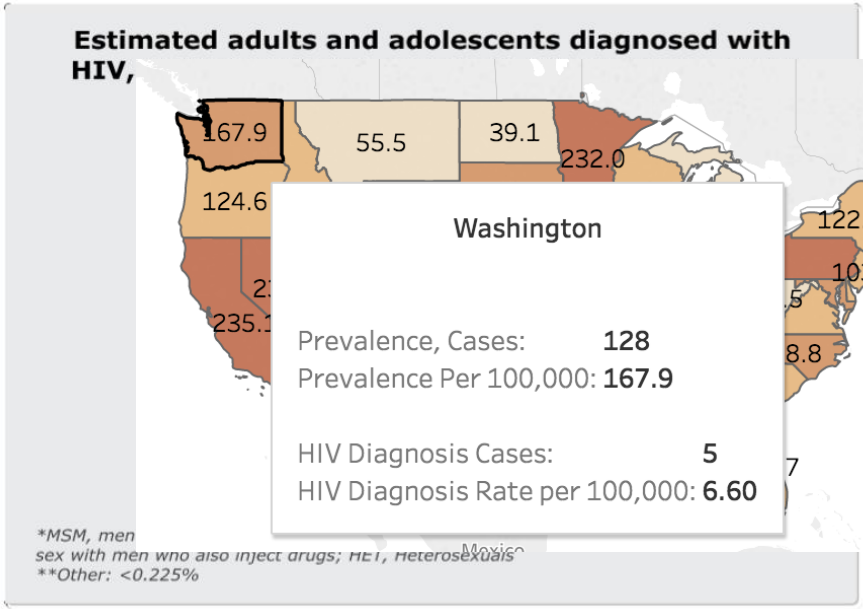
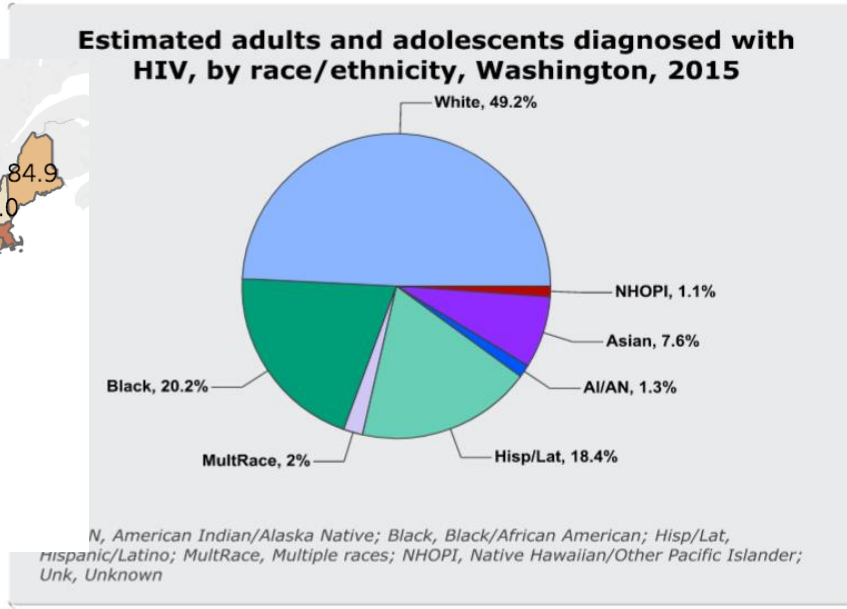
Washington – State Health Profile

HIV/AIDS Epidemic

In 2015, an estimated 39,393 people in the United States were diagnosed with HIV, the virus that causes AIDS. About 1 in 7 people with HIV in the United States do not know that they are infected.

In 2015, an estimated 445 adults and adolescents were diagnosed with HIV in Washington. Washington ranked 24th among the 50 states in the number of HIV diagnoses in 2015.





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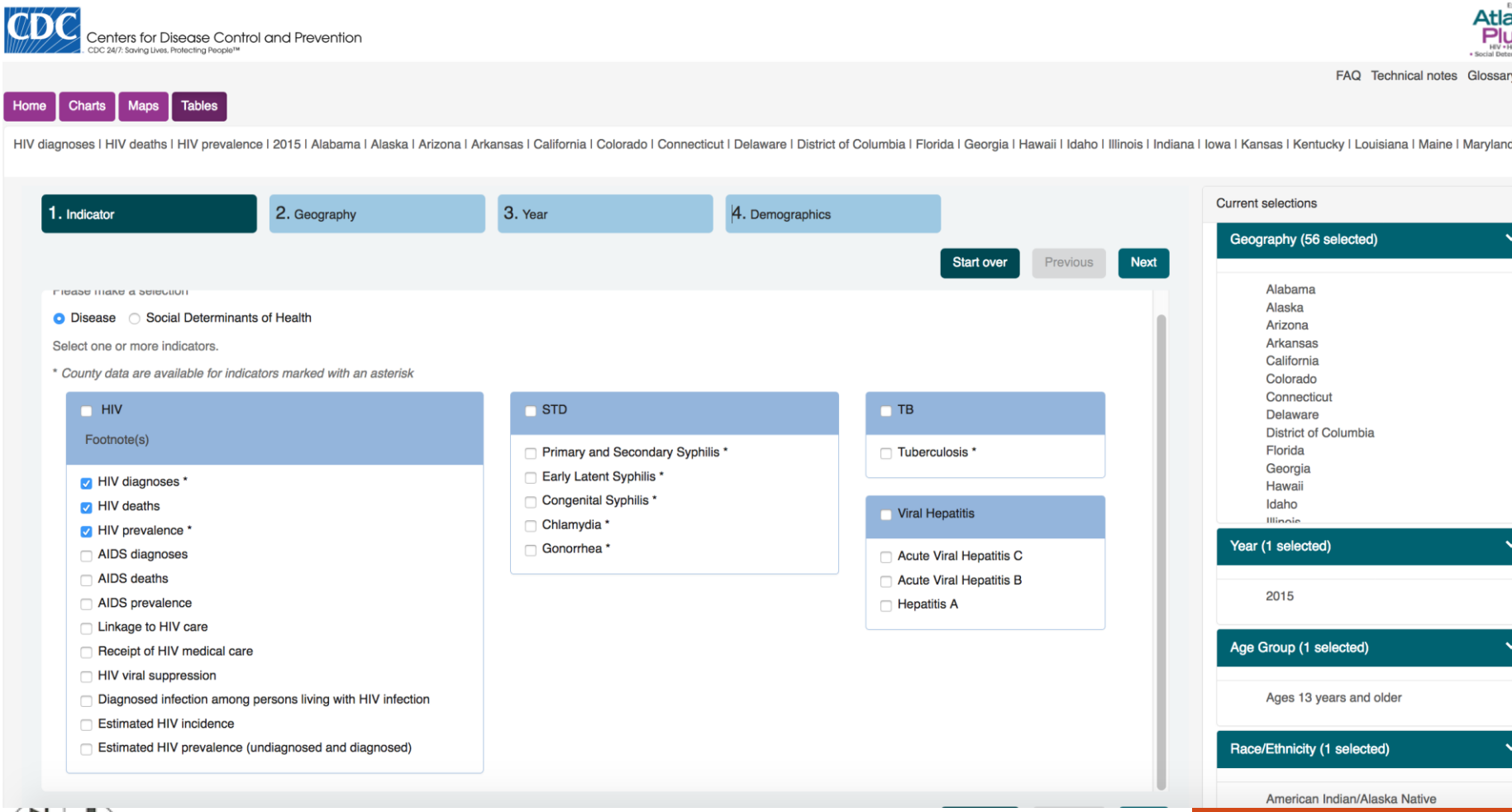

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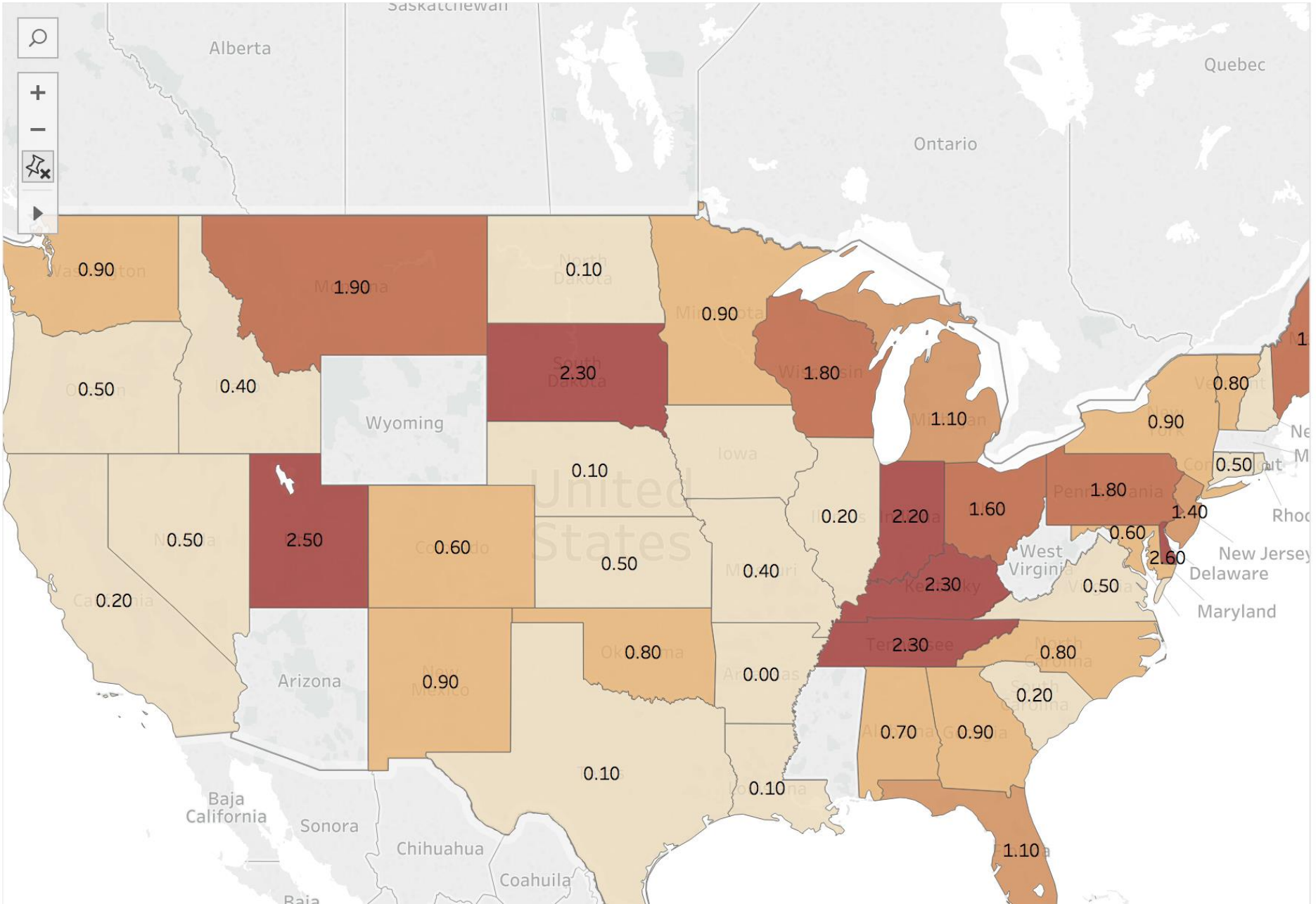
2016 Acute Viral Hepatitis C for AIANs, Cases and Rate per 100,000



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Planning, Grantwriting

First, do what only you can do best: "Describe your situation"

Secondly, put your situation into context

We often know a lot about our own situation, but the 'reader' or grant 'reviewer' may understand better if you help put your situation into context.

Compare your state to other states

Compare your county to other counties

Compare your health program to other health programs.

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Examples, Opioids

Describe the situation at your tribe, in your county and your state.

For all grants you can include data on where your county ranks on RWJ measures.

Opioid Deaths

Drug and Alcohol Deaths

Prescribing Practices

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Rural Health

New CMS initiative.

Is you community in a rural area? How rural is it?

We have maps of counties, by rural classifications.

What do you know about the health status of the community / or your county?

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Appendix: Digital Data Briefs

VISUALIZATIONS: CATEGORIZE

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Population

County Population

CHSDA, Contract Health Service Delivery Area (Counties designated part of a Tribe's CHSDA).

County Population 2016 (with some tribal affiliation information)

State Population with comparison of Alone to Alone and In Combination

State, by Age Categories 2010 to 2016

Public Use Micro Area

Under 25 years old American Indians and Alaska Natives

Young Adults 19 to 35 Medicaid Status

Rural(non-Metro) population

Do American Indians and Alaska Natives live in Rural Counties? 25% Do.

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Uninsured

Uninsured 2010 to 2016, total, with IHS, and without IHS access

Do American Indians and Alaska Natives live in counties with High rates of Uninsured (2018 estimates)?

Uninsured American Indians and Alaska Natives 2008 to 2016

Health Insurance Exchange

Number under 300% of the Federal Poverty Level

HealthCare.gov enrollment 2018

Private Insurance Coverage

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Medicare

Medicare and AIANs *(state level)*

Medicare and IHS Access for 65 years and older American Indian and Alaska Natives

Medicare and Diabetes Prevalence 2012 and 2015

Medicare and Diabetes

Medicare and Diabetes for American Indians and Alaska Natives under 65 and 65 and older

Medicaid

2016 Medicaid Coverage

Medicaid Coverage 2010 to 2016 with and without IHS access

Medicaid under 139 and 139 to 300%

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Food Security

Food Scarcity Map

Employment

375 Metro Areas employment and unemployment rate

County level Unemployment

Workforce Participation

Poverty and Income

Poverty Level

Income Distribution of American Indians and Alaska Natives with ability to select categories

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Location of Facilities

IHS annual facilities list

Essential Community Providers

Veteran's Access to VA and to IHS programs

American Indian and Alaska Native Veteran Population and Access to VA, Access to IHS

State data on access to VA / IHS

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Substance Use Disorder, Drug Use Mortality, Suicide

Drug and Alcohol Deaths 2012 to 2016

Prescribing Opioids and Drug Use Mortality

Drug Use Mortality, CHSDA counties

Suicides, County level, American Indian and Alaska Natives

Suicides, State level, American Indian and Alaska Natives

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Data Project

Questions?

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Ed Fox

efox@nihb.org

202 945-7061