



National Indian Health Board
National Tribal Health Conference –
pre-Conference
Data Institute
9 AM to 11 AM Monday

September 16, 2019

Ed Fox, Ph.D. NIHB Policy Center, Tribal Data Project





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





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





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





Data Sets:

Tribal EpiCenters –reports by Areas of IHS

1. Racial Misclassification Studies
2. Community Health Profiles
3. 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





Organizing the data

A. Indian Population, Tribes and Health Programs

B. Health Insurance Status

C. Health Status





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?





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.





Digital Data Brief examples

Digital Data Briefs are located on Tableau's Free Public Site

<https://public.tableau.com/en-us/s/>. Search... FOX PHD NIHB

Population

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

Medicaid

Medicare

Health Status

Mortality





Tableau tools

Hover; Top left

1. Search
2. Enlarge
3. Reduce size
4. Pin
5. Arrow opens horizontal bar
6. Search within
7. Drag
8. Select a. square b. circle c. lasso

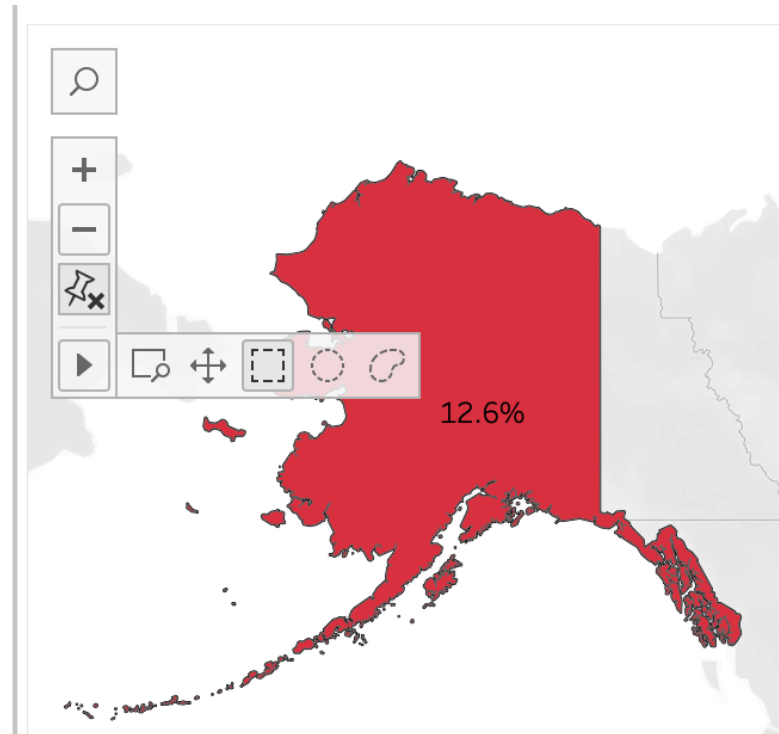
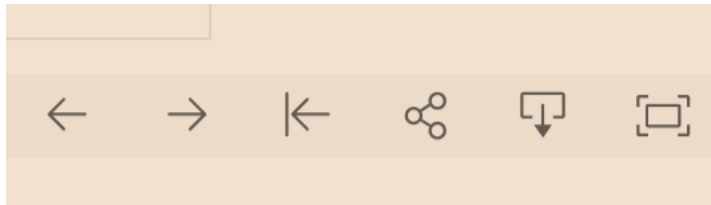
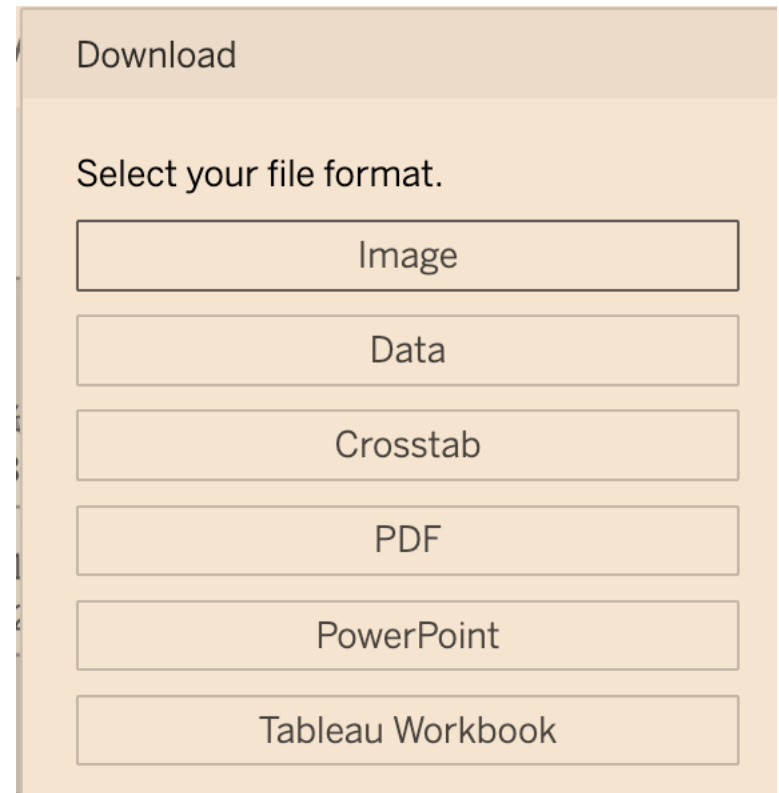




Tableau tools



1. Back
2. Forward
3. Restore
4. Embed
5. Download ---see insert on right
6. Full Screen





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.

1. How? Compare your state to other states
2. Compare your county to other counties
3. Compare your health program to other health programs.

September 16, today, is the deadline for the Tribal **Insure Kids** Grant and I’ll use it as the real life-example to show how easy access to data can improve funding chances.





A. Population





1. Population

6 largest American Indian and Alaska Native States

1. California, 686,000
2. Oklahoma, 533,000
3. Arizona, 387,000
4. Texas, 298,000
5. New Mexico, 229,000
6. Washington, 214,000

6 highest Percent American Indian and Alaska Native States

1. Alaska, 20%
2. Oklahoma 13%
3. New Mexico 11%
4. South Dakota 10.3%
5. North Dakota 6.5 %
6. Arizona 5.8%

Visualization by

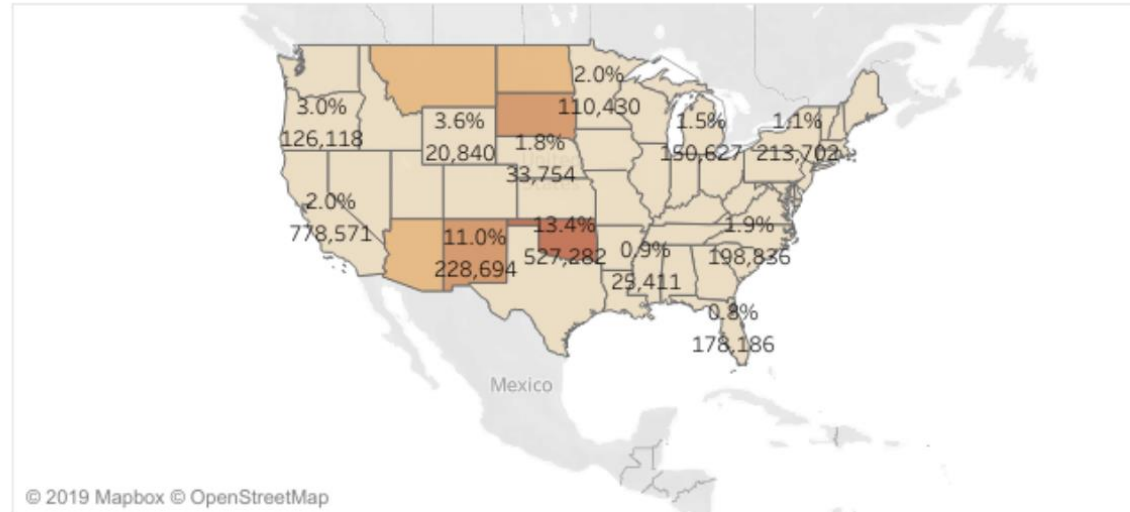
National Indian
Health Board



American Community Survey
How It Works for Your Community

American In..
4935 to 778..

2017 AIAN Population by Percent AIAN 5.2 Million AIAN alone and in combination ACS estimate.



% American ..
0.5% to 20...

% American ..
0.5% 20.4%

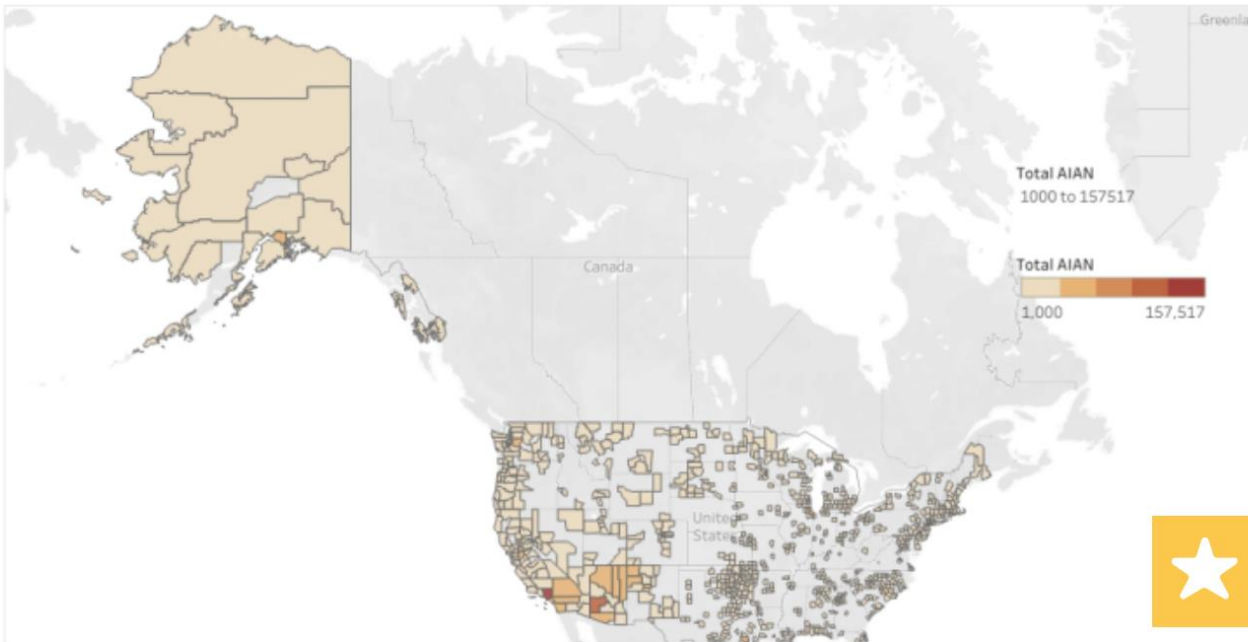


1. 2017 AIAN Population 5.2 Million ---ACS estimate
2017 by % of State Total Population



2. County Population

2017 County Population AIANs Source: 5-year Am. Community Survey Counties with at least 1,000 AIANs



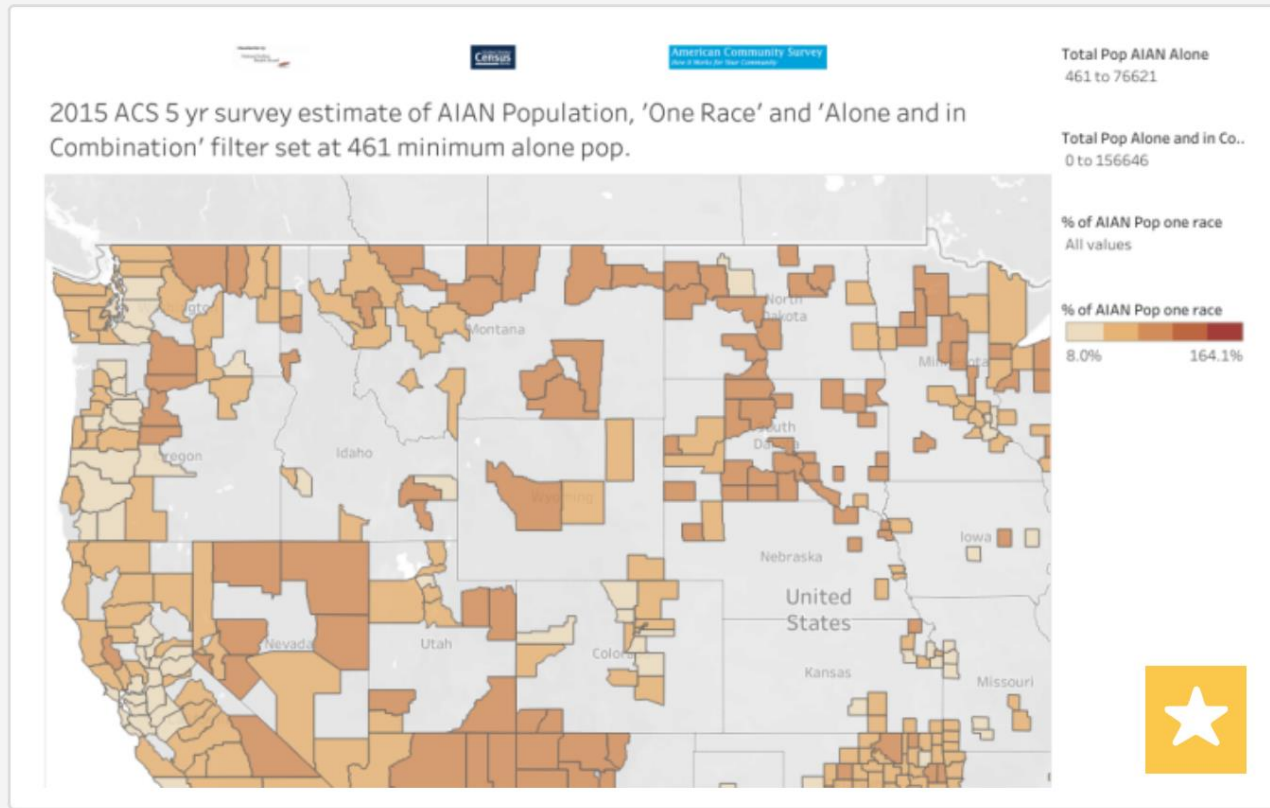
2. County Population 2017 AIAN Population with Margin of Error at 90% confidence level.

49 views ☆ 1





3. Population



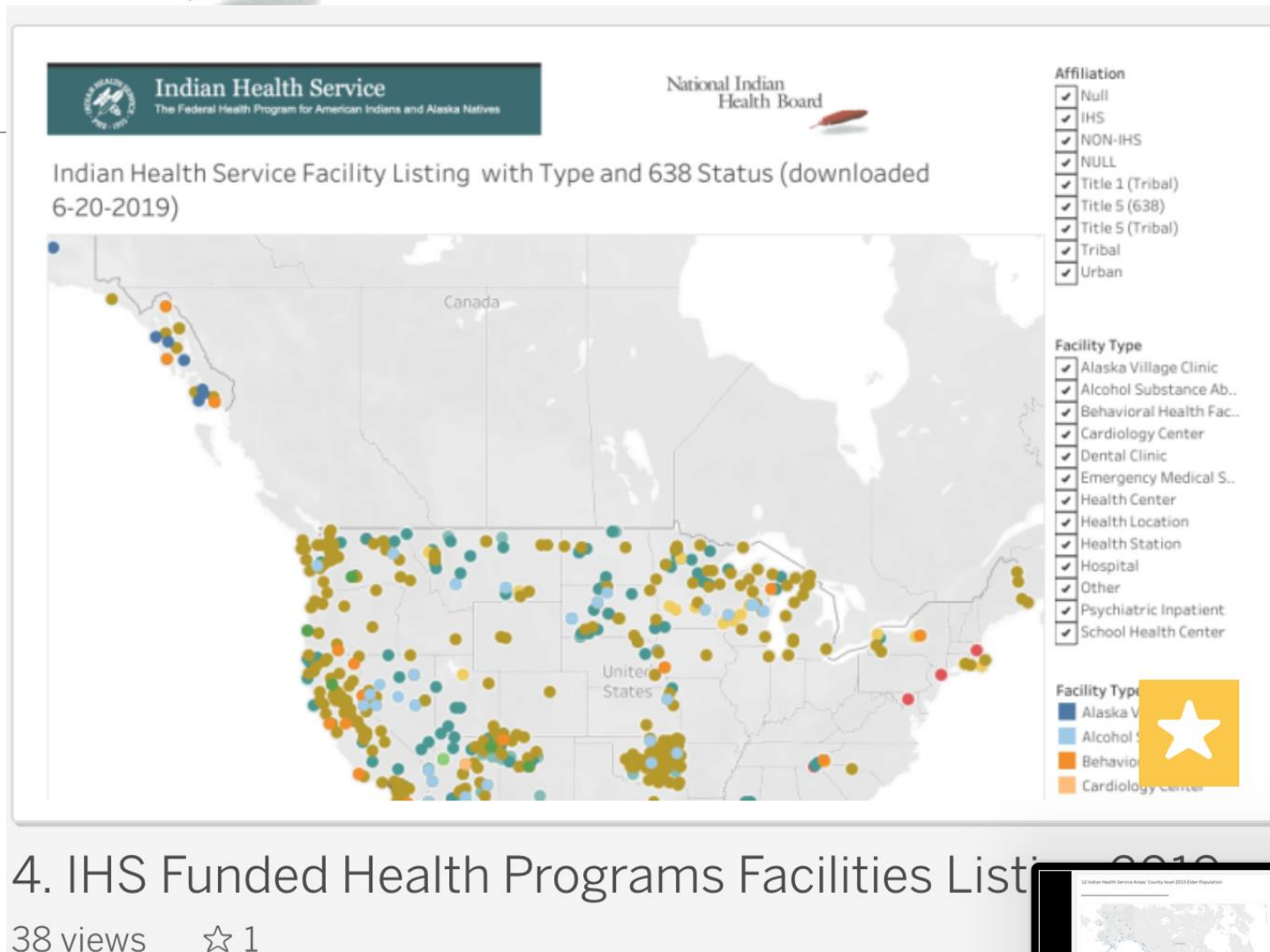
3. 2015 5 yr ACS estimate AIAN Pop one race and alone in combination table

50 views ☆ 1





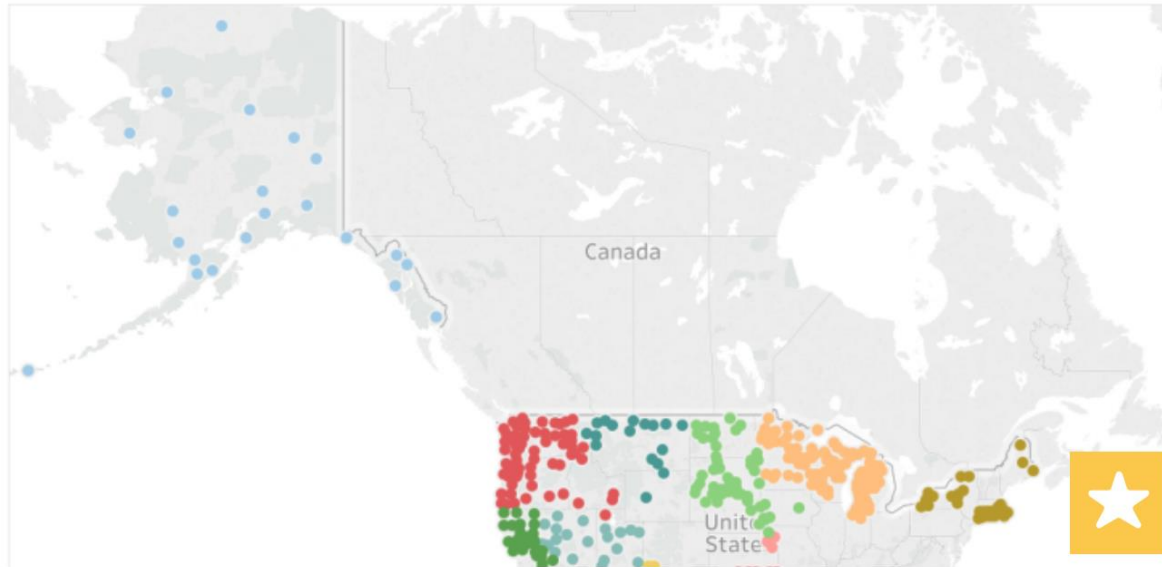
4. IHS facilities





5. CHSDA/PRCDA

12 Indian Health Service Areas' County-level 2015 Elder Population



5. 2015 ACS 5 year County level Population Estimates
by Indian Health Service Areas CHSDA/PRCDA with
population of Elders

39 views ☆ 1





B. Health Insurance Status



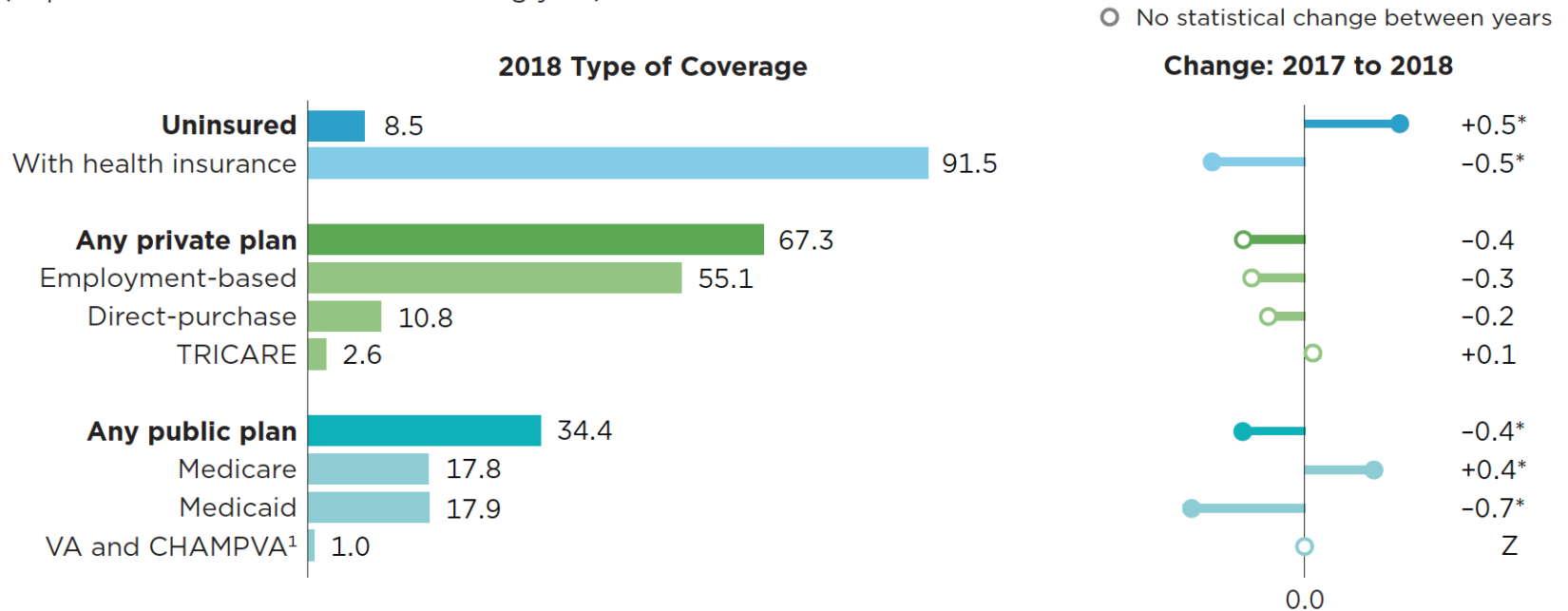


Health insurance status

Figure 1.

Percentage of People by Type of Health Insurance Coverage and Change From 2017 to 2018

(Population as of March of the following year)





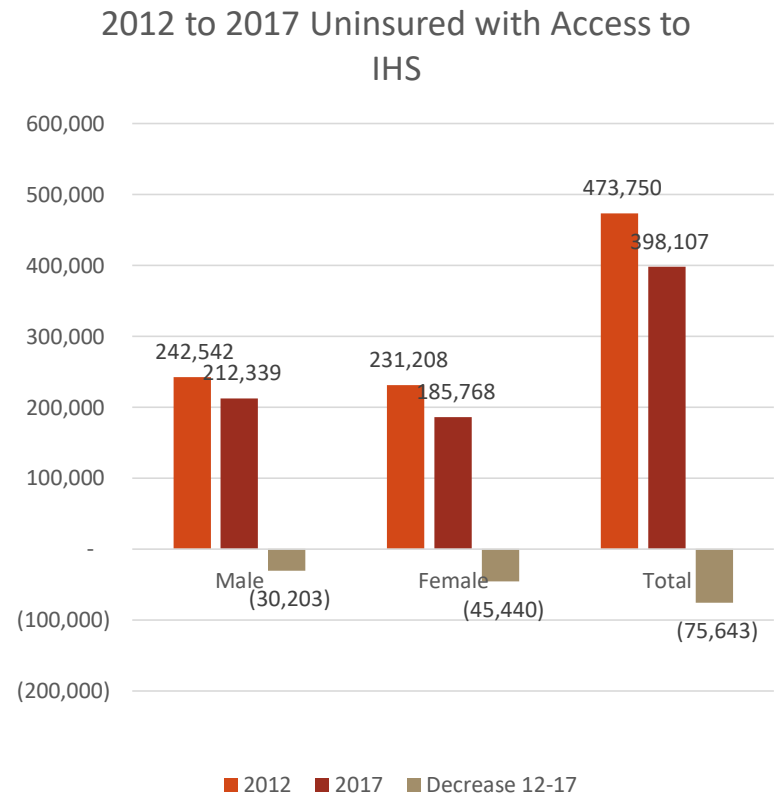
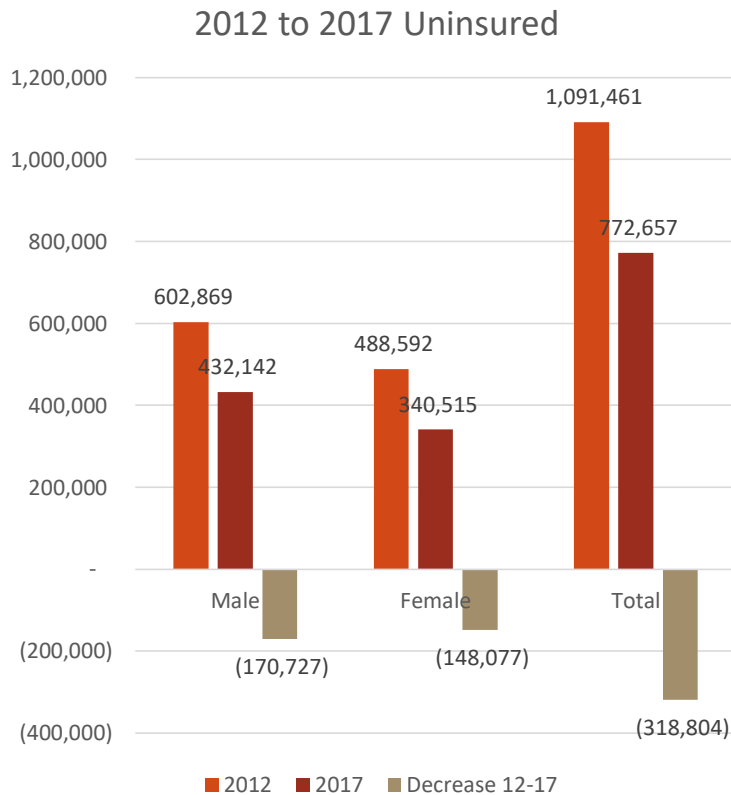
50-State Report on Insurance, Uninsured, and Medicaid Coverage in 2012 and 2017

Summary Tables:	United States
American Indian and Alaska Native Population 2012 and 2017	
2012	2017
4,935,998	5,286,404
American Indian and Alaska Native Uninsured 2012 and 2017	
2012	2017
1,091,461	772,657
Uninsured Rate 2012 and 2017	
2012	2017
22%	15%
Medicaid Enrollment 2012 and 2017	
2012	2017
1,458,746	1,799,233
Percent with Medicaid 2012 and 2017	
2012	2017
30%	34%





The number of uninsured AI/ANS 12-17

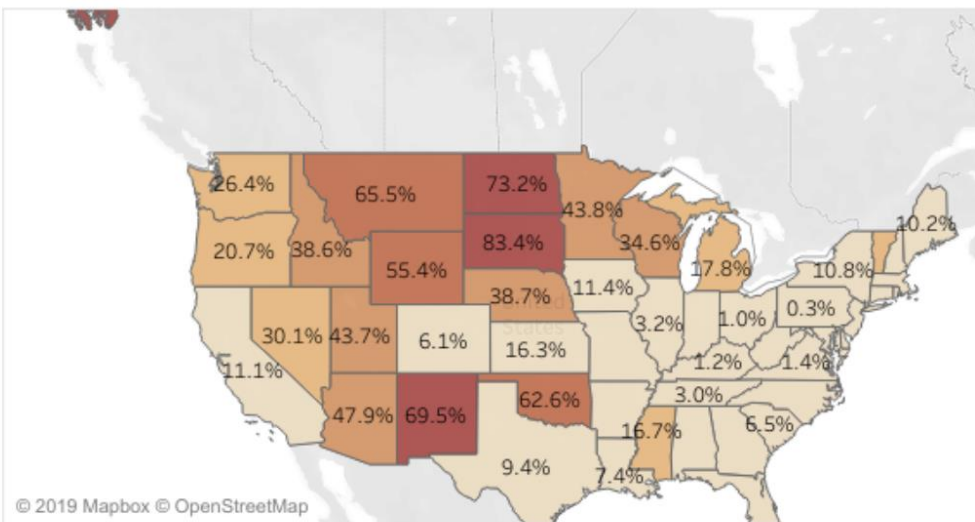




6. Medicare

2017 ACS Estimates of AIANs with Medicare and with Access to IHS: ACS estimates 714,000 AIANs with Medicare, 167,000 have Access to IHS IHS Administrative Data reports 162,000 with Medicare in 2016(see table below).

% with IHS access
0.00% to 80.77%



% AIAN w Medicare IHS Acc..
0.0% to 83.4%

% AIAN w Medica
0.0%



6. 2017 Medicare with and without IHS Access

53 views ☆ 1



7. Medicaid

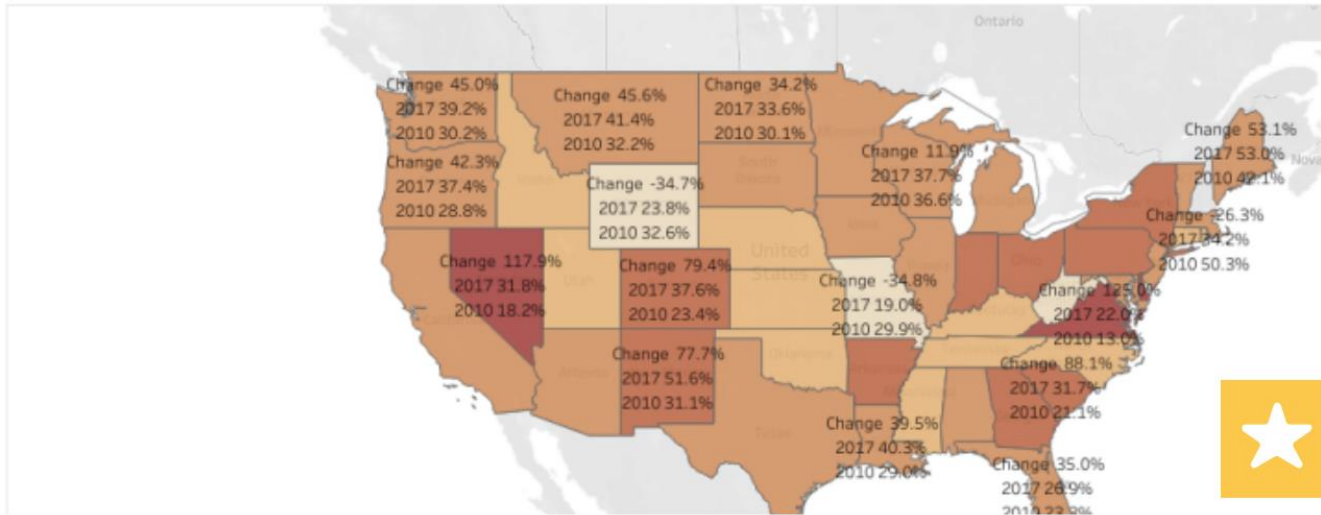
Alaska, 60,000 of 148,000 Alaska Natives (and American Indians) have Medicaid Coverage 40%



National Indian Health Board

Medicaid.
Keeping America Healthy

AIANs with Medicaid 2010 (1.36 million) to 2017 (1.8 million). 430,000 increase, 132,000 for those with "Access to IHS." State label includes: Change since 2010 and Percent of AIANs with Medicaid 2010 and 2017. Many states saw decrease from 2016 to 2017.



7. AIAN Medicaid 2010 to 2017 ACS 1 year survey (AIAN Percent with Medicaid)



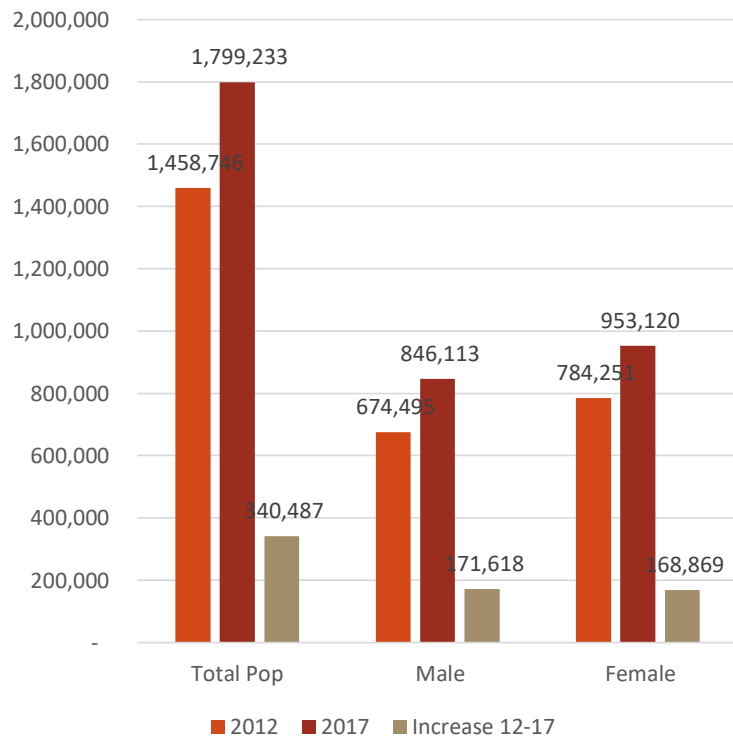
181 views ☆ 1

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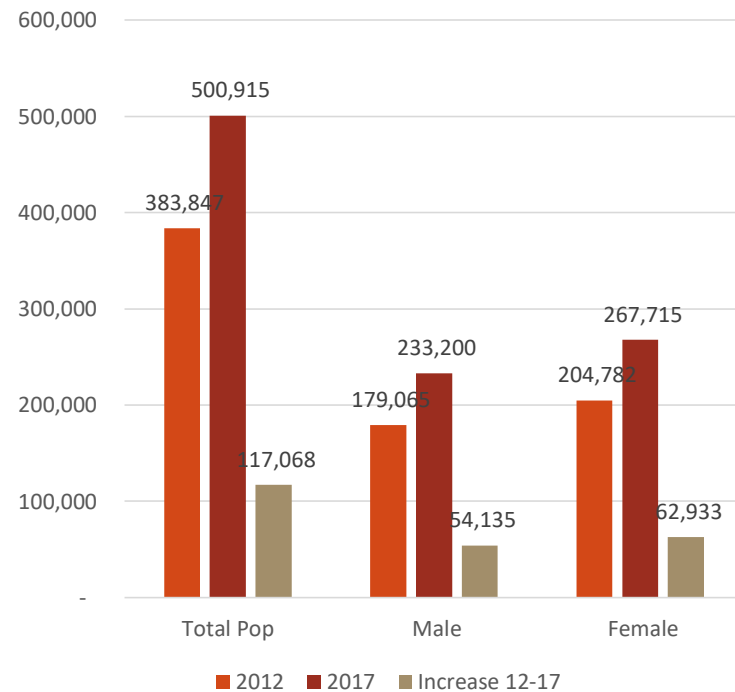
The Red Feather of Hope and Healing



2012 to 2017 Medicaid Enrollment



2012 to 2017 Medicaid Enrollment: With Access to IHS



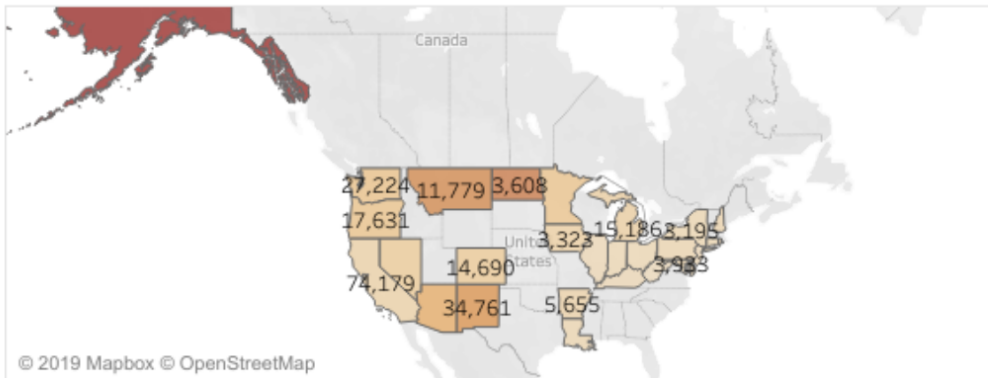


8. Medicaid Expansion

How many AIANs are now enrolled in Medicaid due to Medicaid Expansion? FFY 2017 Estimates from MacPac Admin data and ACS estimates of AIAN Medicaid participation Estimate of 295,000.
(formula uses ACS estimate of the % of total Medicaid AI/AN times total Expansion Population).

Expansion State?

☐ Null
☐ No
☒ Yes



% of All Medicaid

0.4%



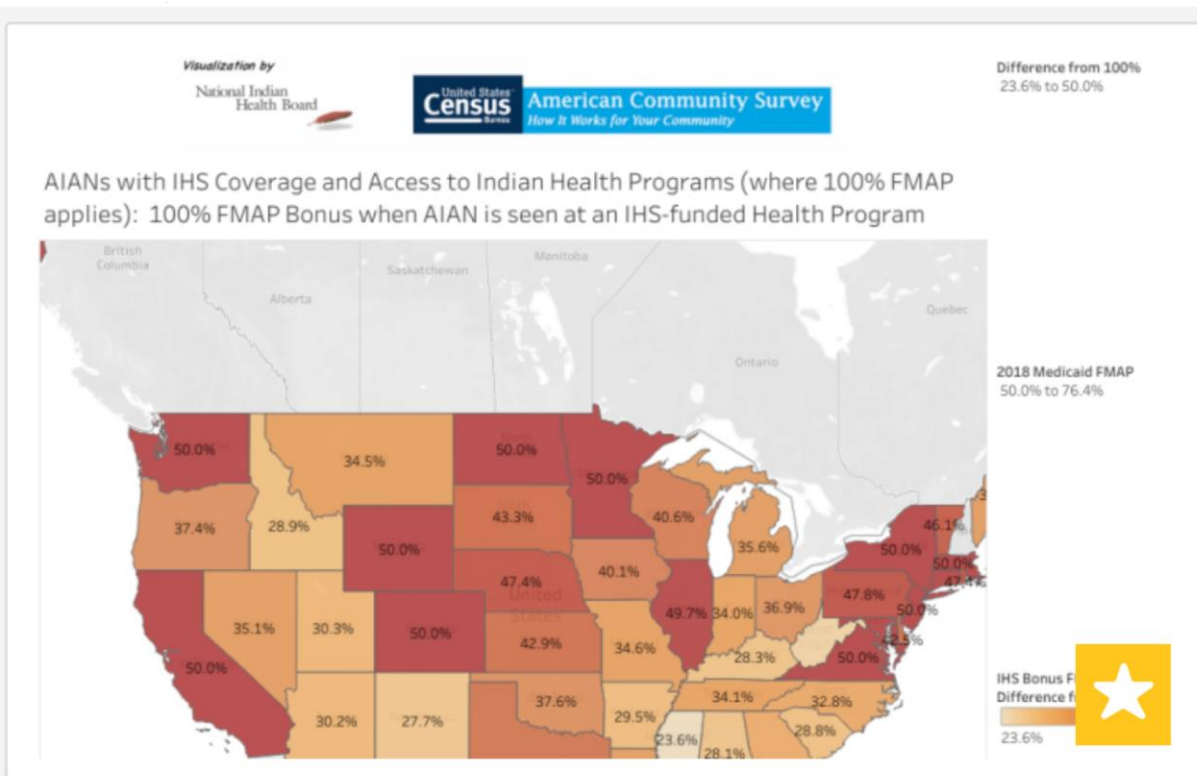
8. 2017 Estimate of 295,000 AI/AN Medicaid Expansion Population

107 views ☆ 1





9. FMAP



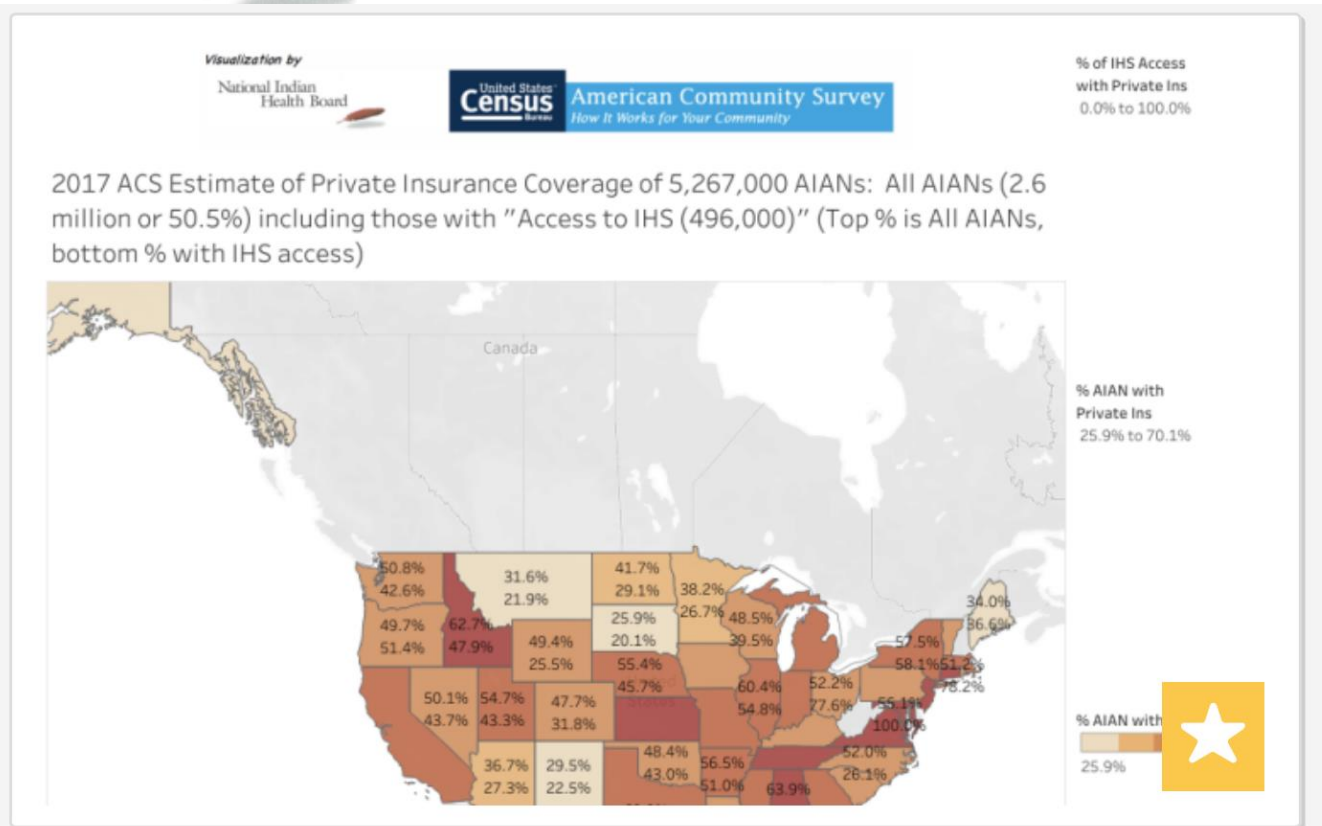
9. 100% FMAP 2018 and IHS 100% FMAP "bonus" for
AIANs seen in IHS-funded health programs ACS
Medicaid 2017 Estimates

66 views ☆ 1





10. Private Ins.

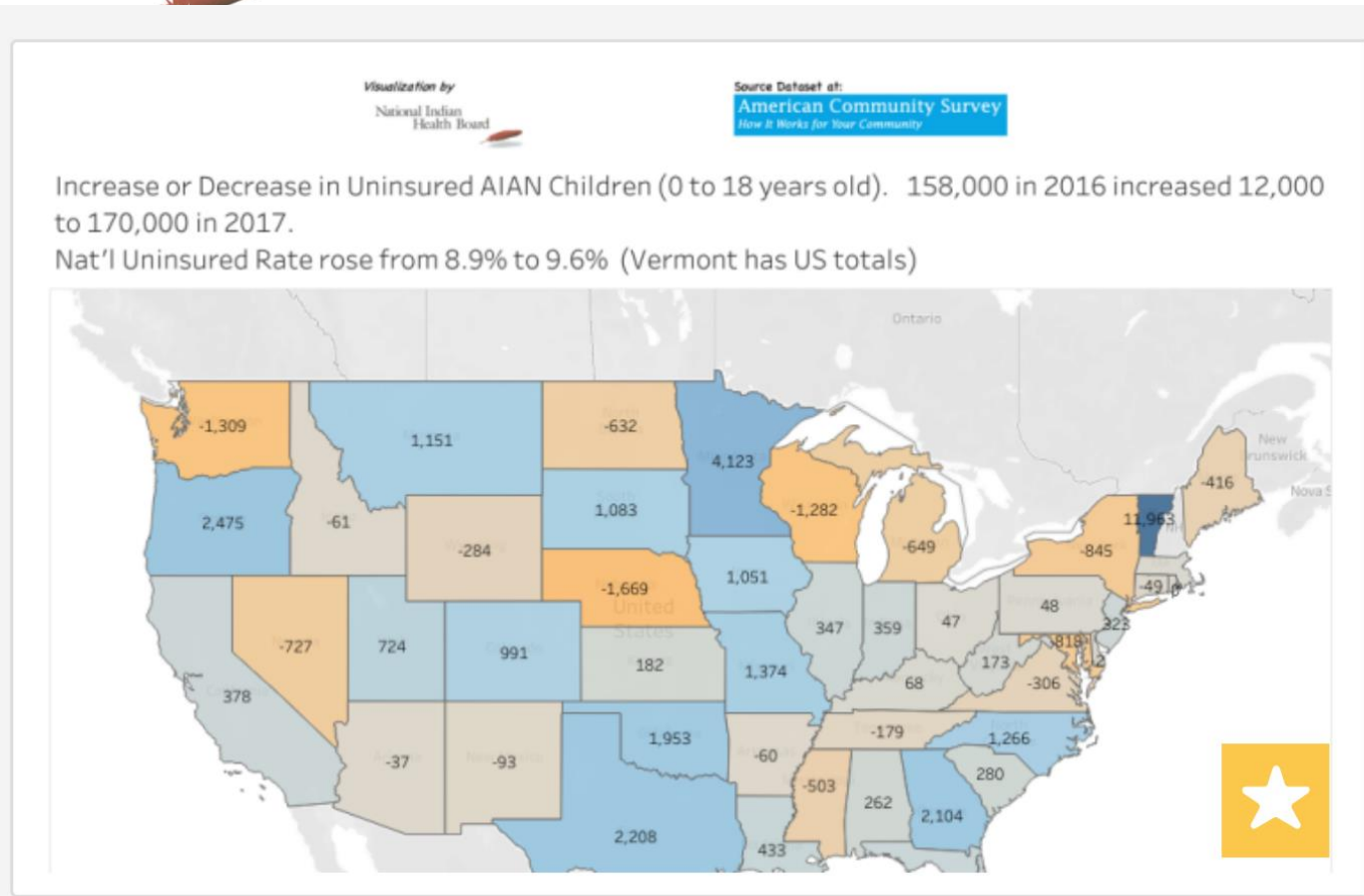


10. 2017 ACS Estimate of Private Insurance Coverage of 5,267,000 AIANs: All AIANs (2.6 million) including those with "Access to IHS (496,000)"

33 views ☆ 1



11. Uninsured Children



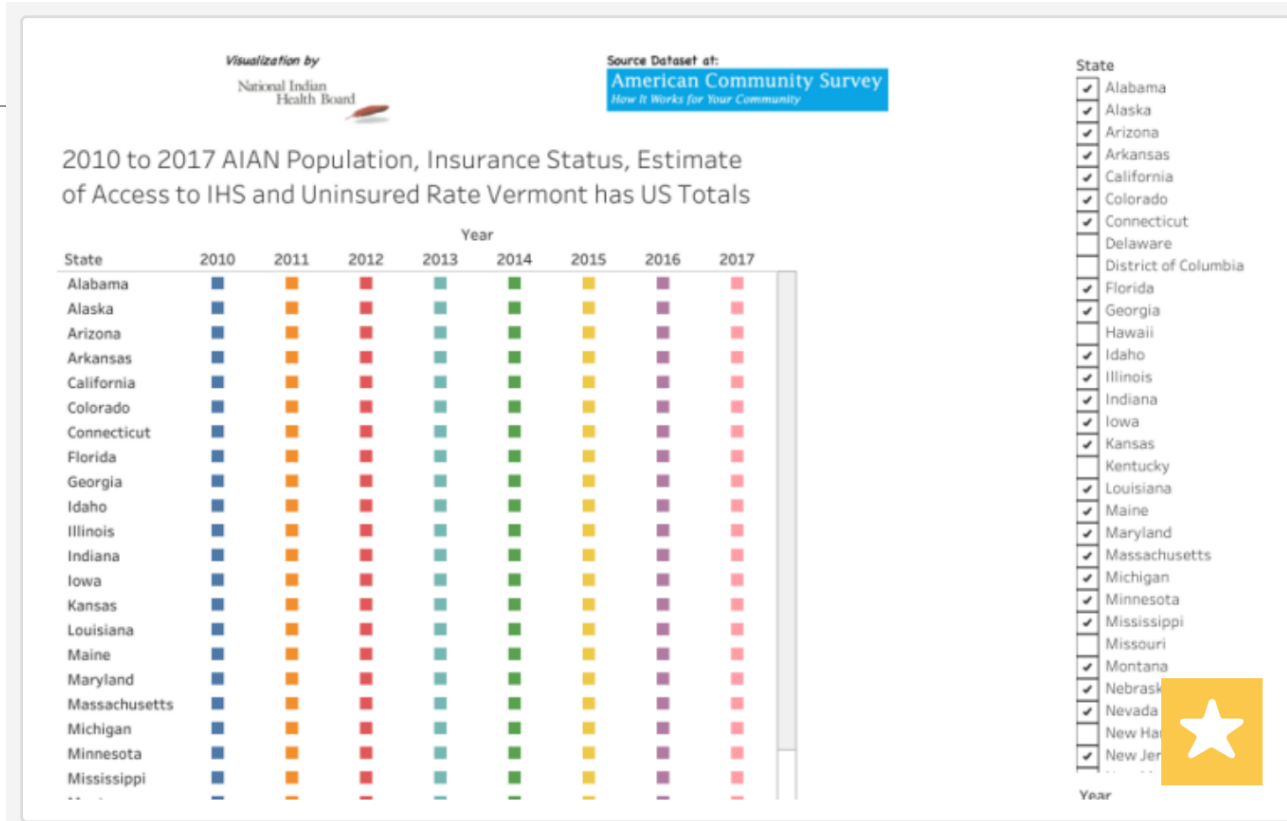
11. 2016 and 2017 Uninsured AI/AN Children Increased Nationally and in most States

62 views ☆ 1





12. Population & Insurance

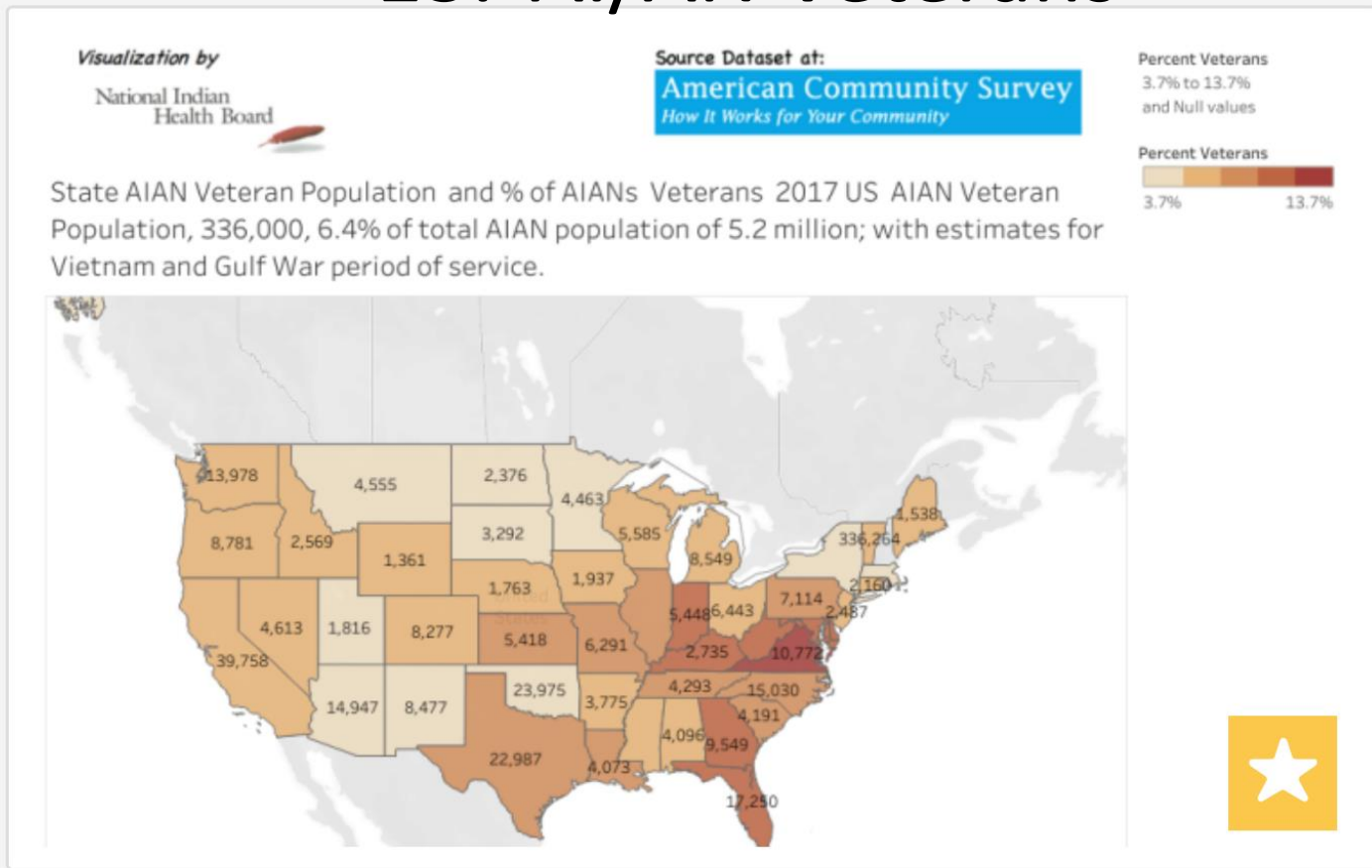


12. 2010 to 2017 AIAN Population, Insurance Status, Estimate of Access to IHS and Uninsured Rate

84 views ☆ 1



13. AI/AN Veterans



13. 2017 ACS Estimate (6.4% of AIANs are Veterans) of AIAN Veteran Population

92 views ☆ 1

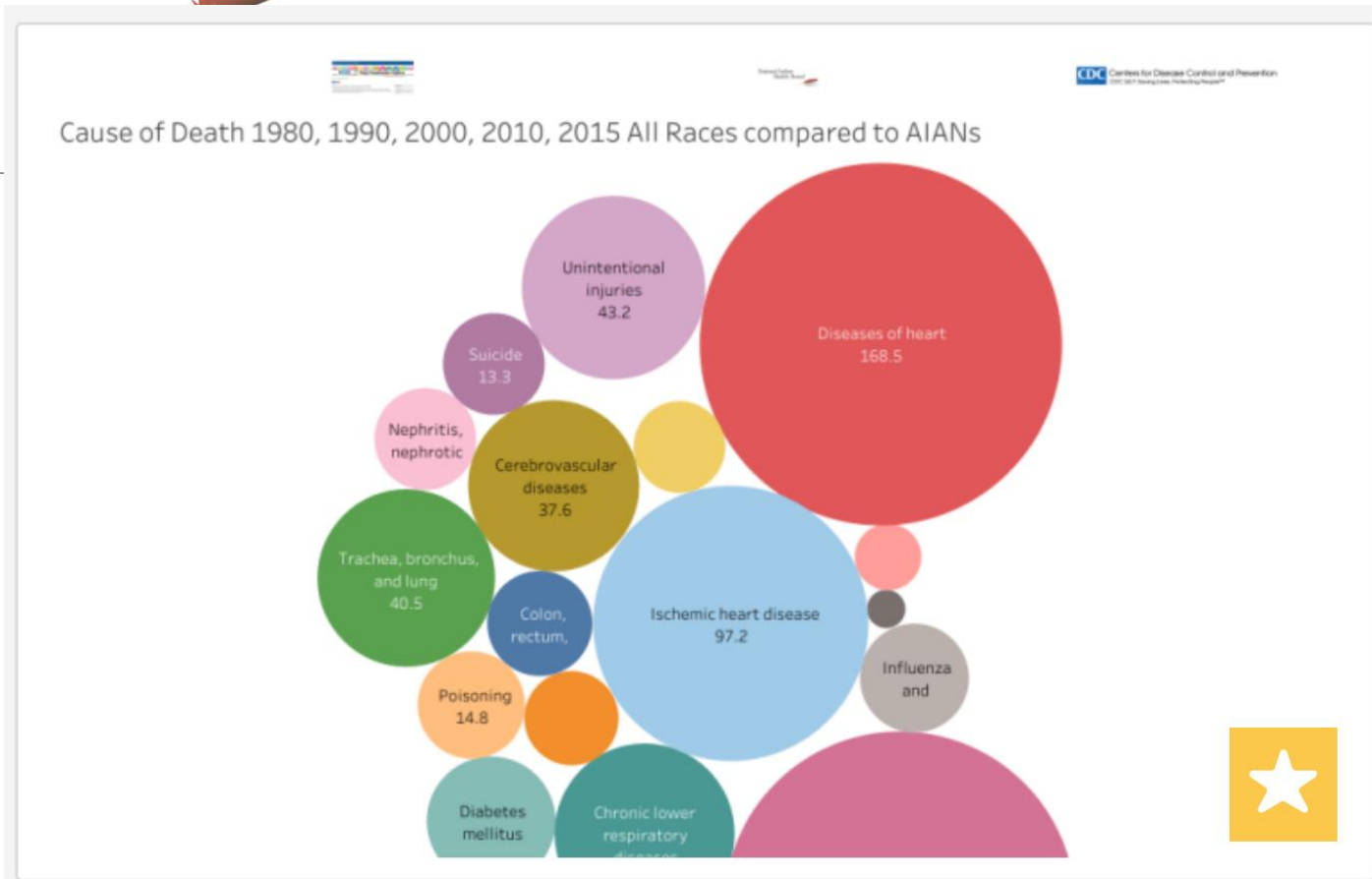




C. Health Status



14. Cause of Death

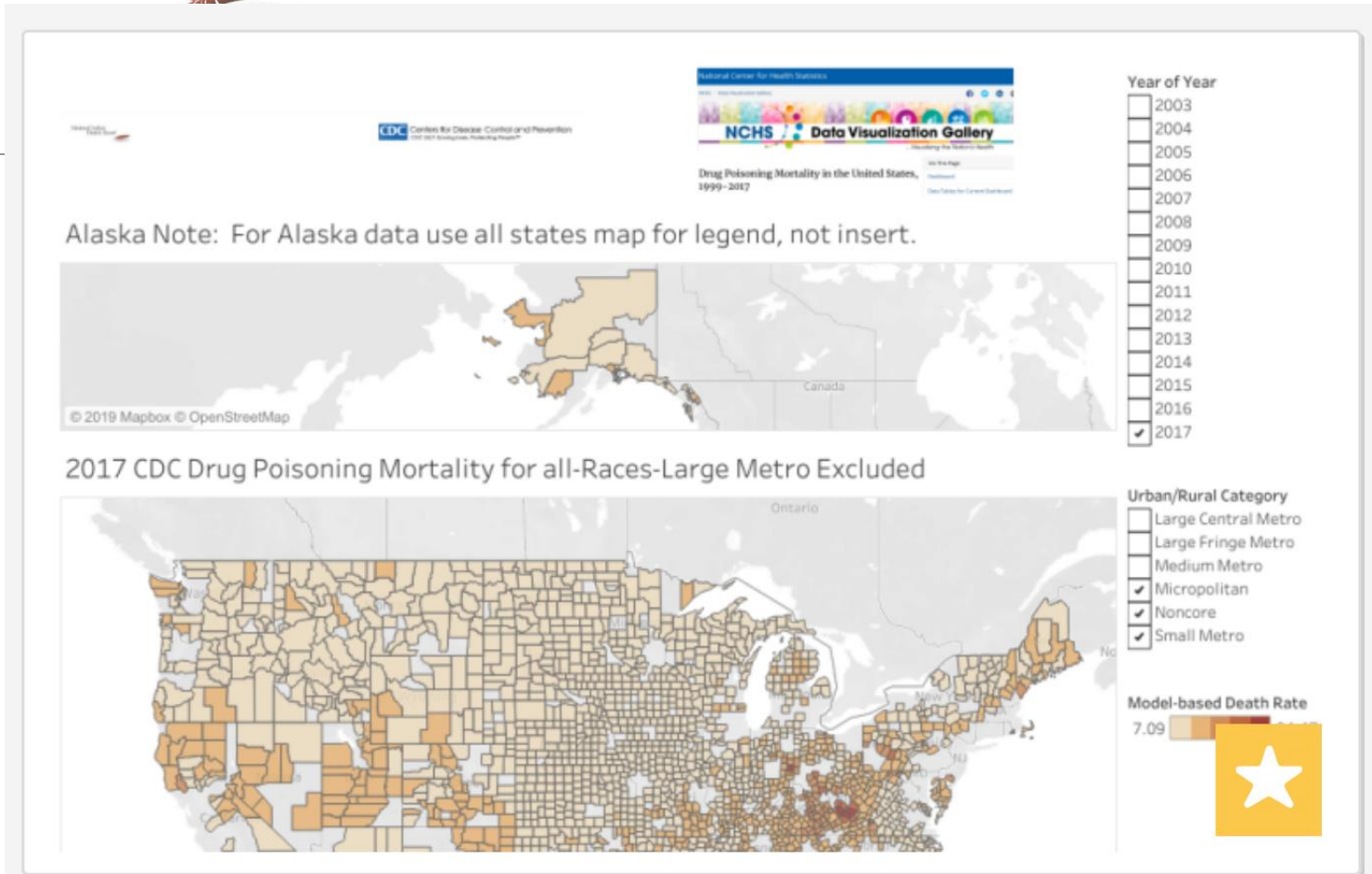


14. CDC 2015 Cause of Death Comparision AIAN to All Races 1980, 1990, 2000, 2010, 2015 a

81 views ☆ 1



15. Overdose deaths

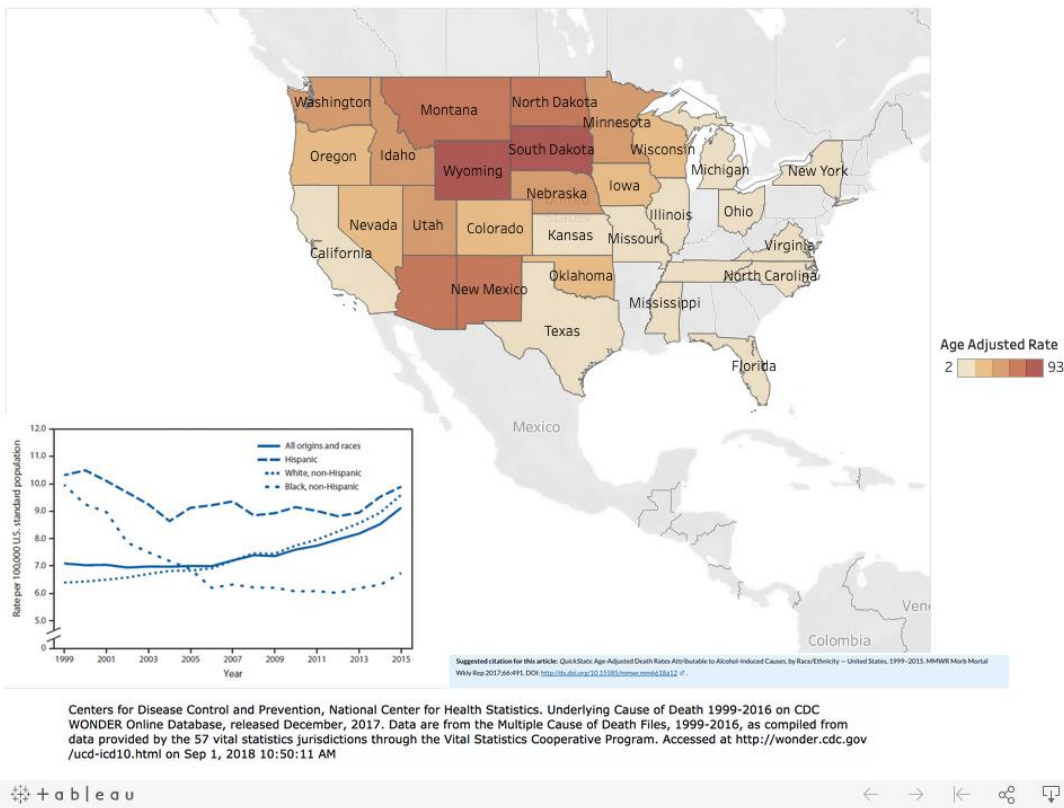


15. 2003 to 2017 CDC Drug Poisoning Mortality All Races-Large Metro Excluded



16. Alcohol Deaths

Alcohol-Induced Cause of Death: Death Rates for American Indians and Alaska Natives 1999-2016 US Rate under 10 per 100,000



16. Alcohol-Induced Deaths and Death Rates AIANs 1999 2016

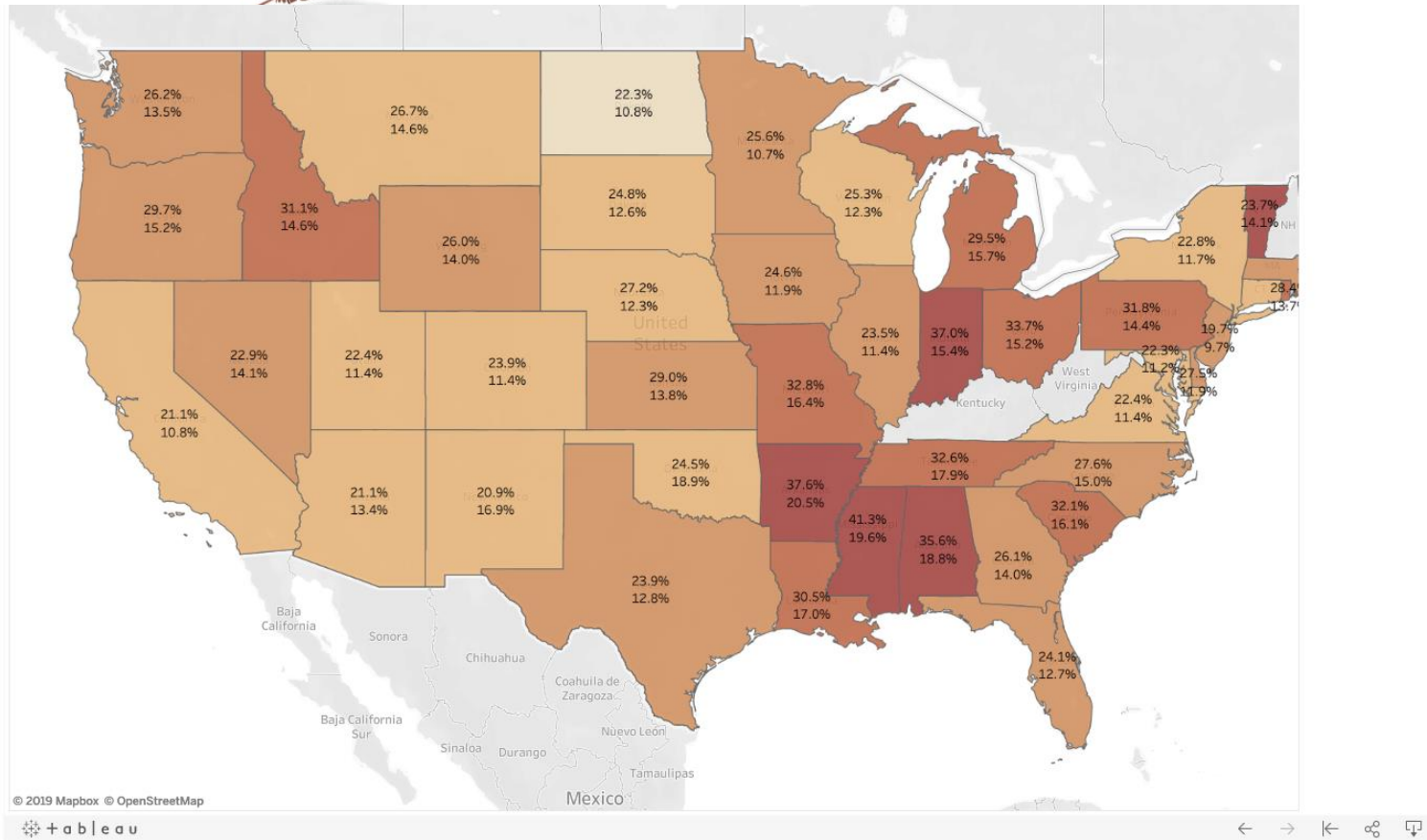
Edit Details

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Drug and Alcohol Deaths and Death Rates AIANs 1999 2016



17. Disability



17. 2017 ACS 5-year survey Estimates of Disability, AIAN and All Races Comparison

Edit Details

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2017 ACS 5 year survey Estimates of Disability .State geography AIAN and All Races Comparison

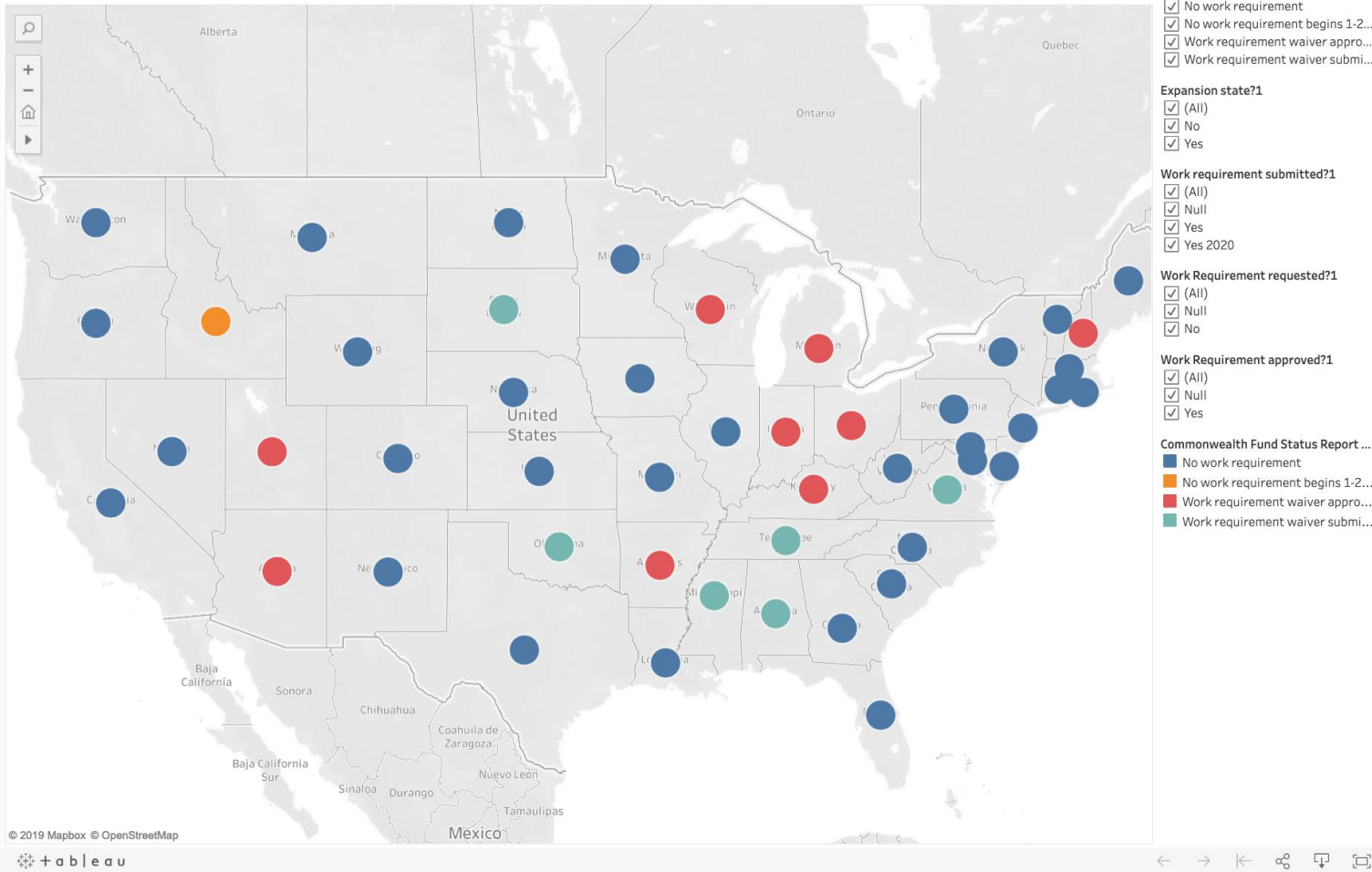


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18 . Medicaid/work

Work Requirements for Medicaid August 9, 2019



18. Medicaid Work Requirements as of August 9, 2019

[Edit Details](#)



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19. Metro Uninsured

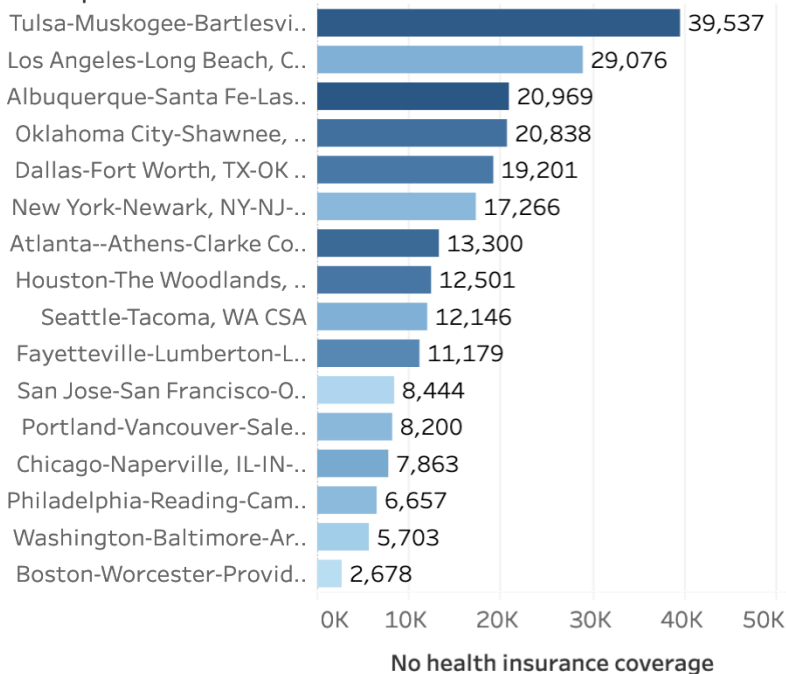
2016 Metropolitan Area Uninsured

Metropolitan Area.. 2

Albuquerque-Santa Fe-Las Vegas, NM CSA	Total population 2016	95,660	
	No health insurance cover..	20,969	
Atlanta--Athens-Clarke County--Sandy Spring..	Total population 2016	69,466	
	No health insurance cover..	13,300	
Chicago-Naperville, IL-IN-WI CSA	Total population 2016	72,719	
	No health insurance cover..	7,863	
Dallas-Fort Worth, TX-OK CSA	Total population 2016	111,014	
	No health insurance cover..	19,201	
Fayetteville-Lumberton-Laurinbur..	Total population 2016	75,120	
	No health insurance cover..	11,179	
Houston-The Woodlands, TX CSA	Total population 2016	70,482	
	No health insurance cover..	12,501	
Los Angeles-Long Beach, CA CSA	Total population 2016	297,542	
	No health insurance cover..	29,076	
New York-Newark, NY-NJ-CT-PA CSA	Total population 2016	194,015	
	No health insurance cover..	17,266	
Oklahoma City-Shawnee, OK CSA	Total population 2016	114,633	
	No health insurance cover..	20,838	
Portland-Vancouver-Salem, OR-WA CSA	Total population 2016	93,827	
	No health insurance cover..	8,200	
San Jose-San Francisco-Oakland, CA..	Total population 2016	165,097	
	No health insurance cover..	8,444	
Seattle-Tacoma, WA CSA	Total population 2016	124,626	
	No health insurance cover..	12,146	
Tulsa-Muskogee-Bartlesville, OK CSA	Total population 2016	184,689	
	No health insurance cover..	39,537	

2016 ACS Estimate of AIAN Uninsured

Metropolitan Area 2.. 2



No health insurance coverage



Measure Names

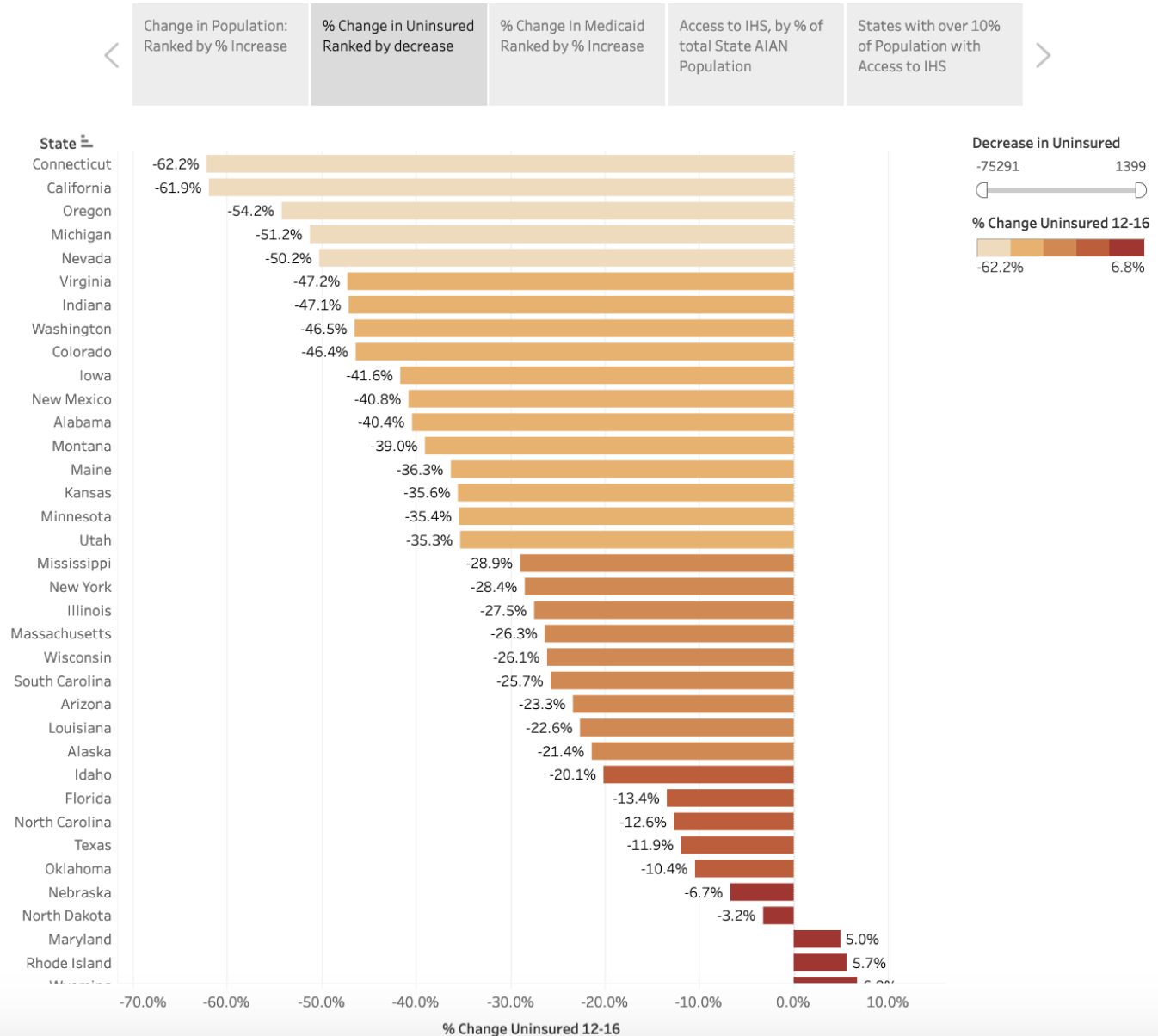
- ☐ (All)
- ☐ Civilian noninstitutionalized population
- ☒ No health insurance coverage
- ☐ No health insurance coverage with private health insurance
- ☐ Number of Records
- ☒ Total population 2016
- ☐ With private health insurance
- ☐ With private health insurance and public coverage
- ☐ With public coverage
- ☐ With public coverage and private health insurance

Measure Names

- Total population 2016
- No health insurance coverage

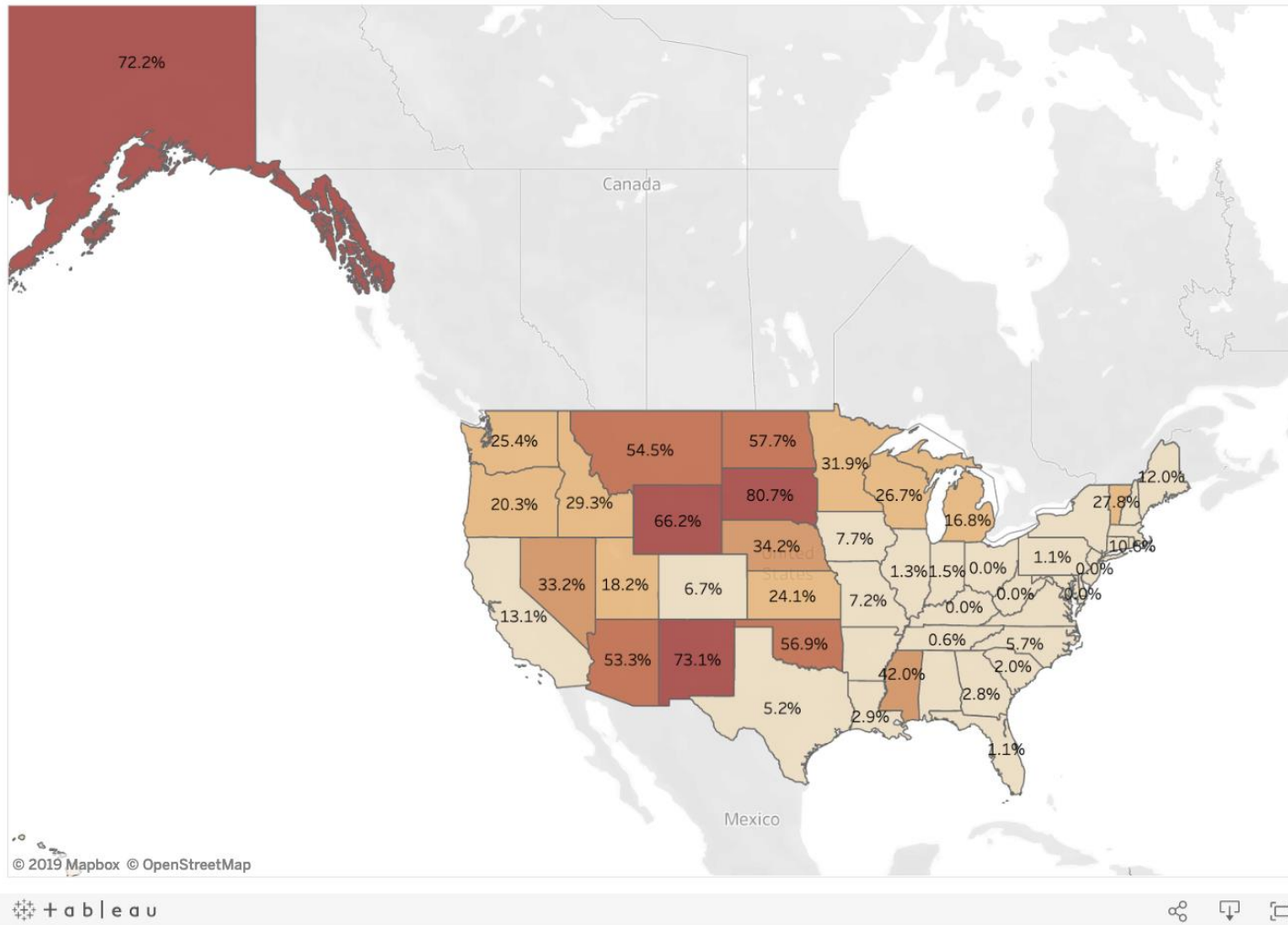


2016 Changes in Population, Uninsured and Medicaid



21.

2017 American Community Survey Estimates of Medicaid Coverage for AIANs by percentage responding they have Access to IHS 501,000 of 1.8 Million with Medicaid (27.8%) have 'access to IHS.'

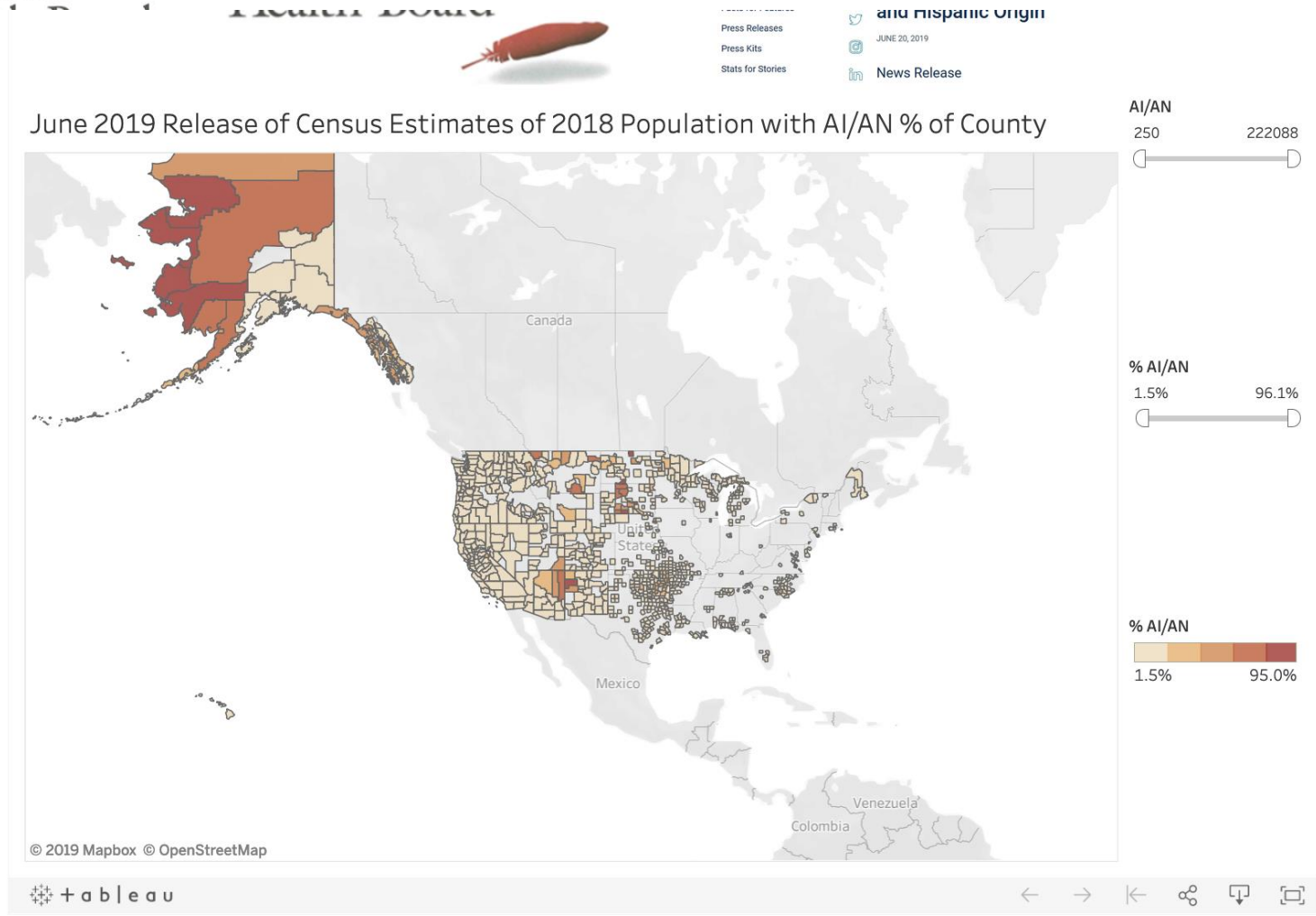


21. AIAN Medicaid Coverage in 2017 [Edit Details](#)

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22.

June 2019 Release of Census Estimates of 2018 Population with AI/AN % of County

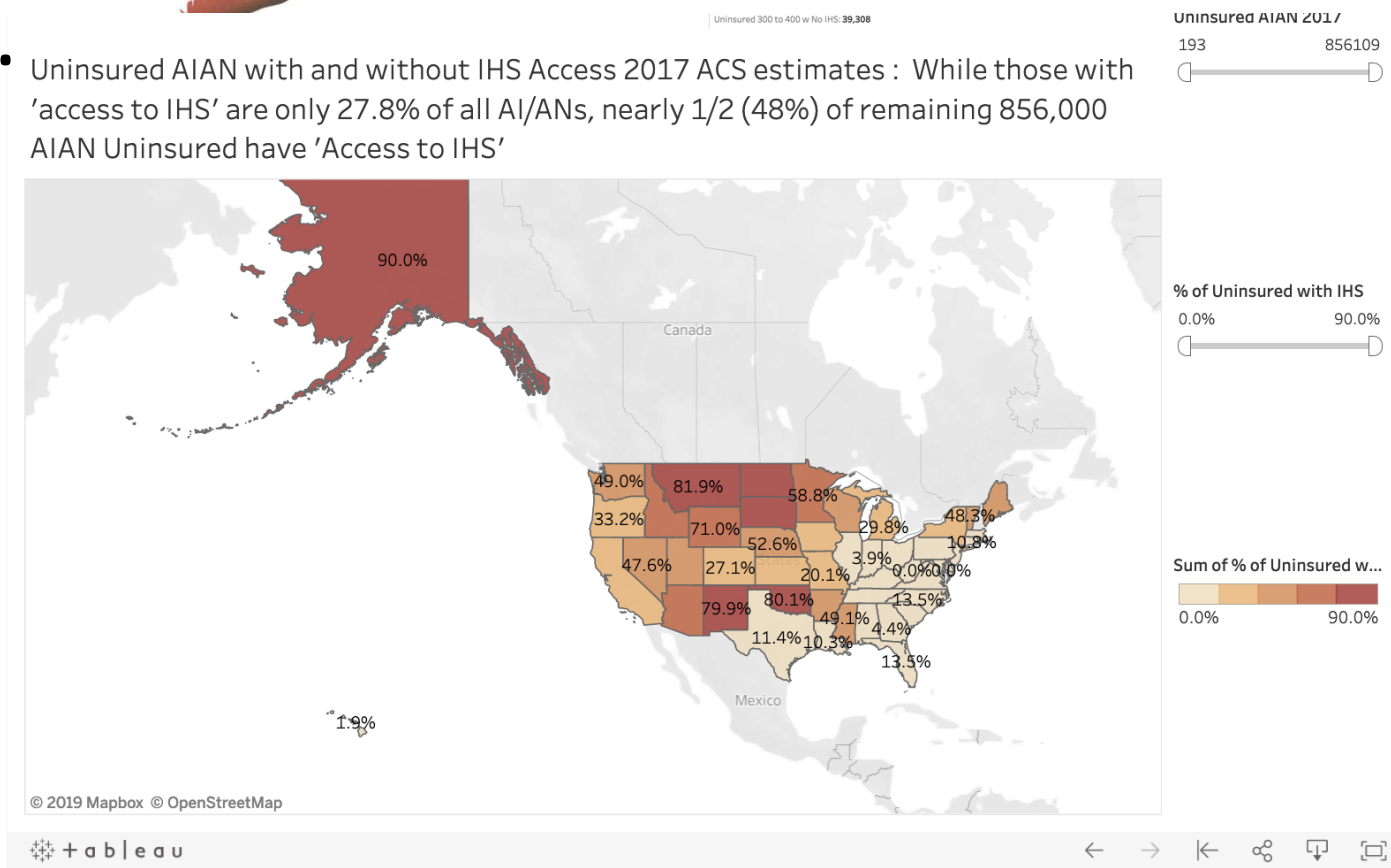


22. County Population Estimate 2018 Annual July 1, 2018 estimate Release date: June, 2019



23.

Uninsured AIAN with and without IHS Access 2017 ACS estimates : While those with 'access to IHS' are only 27.8% of all AI/ANs, nearly 1/2 (48%) of remaining 856,000 AIAN Uninsured have 'Access to IHS'



23. Remaining Uninsured AIANs are disproportionately (48% of Uninsured) Patients of IHS-funded health programs





Data Project

Questions?

To access Digital Data Briefs go to Tableau Public

<https://public.tableau.com/en-us/s/>. Search... FOX PHD NIHB –bookmark this page and go to Favorites to see today's presentation.

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