How to design the Arizona Social Vulnerability Index (AzSVI)

June 6-7, 2023

Arizona Rural Health Conference | Flagstaff, AZ

Holly Starr | Data Equity Coordinator

Matthew Roach | Vital Statistics Manager



Learning Objectives

- 1) What data is in the Arizona Social Vulnerability Index?
- 2) Data visualization best practices
- 3) Strategies for bringing together community data groups



Background

- Social determinants of health data shows us communitylevel factors that may be contributing to health disparities
- The CDC Social Vulnerability Index (SVI) brings together many different factors at once and estimates places in greatest need during an emergency
 - The SVI was created using a national-level analysis, not accounting for Arizona specific conditions



How can we use the SVI?

- Know where to target resources when resources are limited
- Estimate how many emergency personnel and services are needed to assist people
- Reference it in a response to a grant to address a need in your community



Collaboration

ADHS is partnering with Arizona State
University and the Data Advisory Committee
to develop an Arizona specific SVI



The Data Advisory Committee

- 50+ organizations represented
- Local public health, healthcare, nonprofit, Tribal, University
- Brings community insight to the table and advises ADHS on how to implement data projects with equity



Data Viz Best Practices

- Partner with the community
- Provide clear explanations
- Make data actionable and address root causes
- Disaggregate data
- Use representative images/icons
- Remove bias in sorting and in use of color





Arizona SVI

In addition to the first four themes on the right, which are in the CDC's SVI, ASU, ADHS, DAC, intend to create a fifth theme that is unique to Arizona and/or not addressed in the existing CDC themes

Overall Vulnerability

Socioeconomic Status

Below 150% Poverty

Unemployed

Housing Cost Burden

No High School Diploma

No Health Insurance

Household Characteristics Aged 65 & Older

Aged 17 & Younger

Civilian with a Disability

Single-Parent Households

English Language Proficiency

Racial & Ethnic **Minority Status**

Hispanic or Latino (of any race) Black or African American, Not Hispanic or Latino Asian, Not Hispanic or Latino

American Indian or Alaska Native, Not Hispanic or Latino Native Hawaiian or Pacific Islander, Not Hispanic or Latino

Two or More Races, Not Hispanic or Latino Other Races, Not Hispanic or Latino

Housing Type & Transportation

Multi-Unit Structures

Mobile Homes

Crowding

No Vehicle

Group Quarters



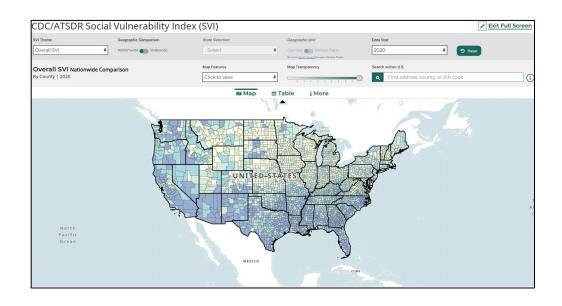


Arizona

Internet Access **Built Infrastructure (water, electricity)** Distance/Access to Healthcare Flood, Heat, Fire, Air Quality **Population Density** Social Services/Food Insecurity

Webmap example

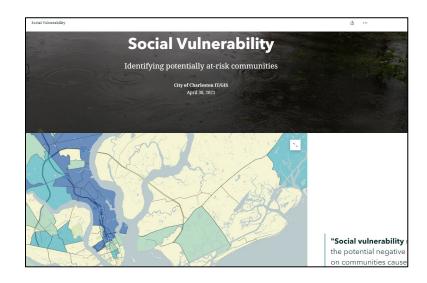
CDC/ATSDR Social Vulnerability Index





Storymap example

City of Charleston





slido

Join at

slido.com #1538 688







Real Stories

Would you like to share your story of how these factors impact the health of your community?

We are doing a small sample of interviews to collect stories to share alongside the AzSVI data. If you're interested in learning more please reach out to Holly after the session!



Acknowledgements

ADHS

- Nicole Eiden
- Wes Kortuem
- Josue Barboza
- Siman Qaasim
- Gerilene Haskon

Arizona Data Advisory Committee Members

ASU

- Dr. Tim Lant
- Dr. Patricia Solis
- Dr. Kerri Rittschof
- Dr. Michael Simeone
- Dr. Mason Mathews
- Anna Gaylord
- Talia Hernandez
- Brajesh Karna
- Krisha Vijay Gala
- Anna Hartman
- Maame Amoa-Asare



Thank you!

holly.starr@azdhs.gov matt.roach@azdhs.gov

azdhs.gov/azhip



Health and Wellness for all Arizonans