

County Health Rankings & Roadmaps

Building a Culture of Health, County by County

A Robert Wood Johnson Foundation program

July 21, 2020

US COVID ATLAS: EXPLORING DATA TO MOVE TO ACTION

County Health Rankings & Roadmaps

countyhealthrankings.org



University of Wisconsin
Population Health Institute
SCHOOL OF MEDICINE AND PUBLIC HEALTH

Support
provided by



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WHY WE DO WHAT WE DO

Improve Health Outcomes



Durham, NC 2014

WHY WE DO WHAT WE DO

Increase Health Equity

JOIN US FOR MORE DISCUSSION – TODAY!

- ▶ **When:** Immediately following the webinar
- ▶ **What:** Interactive learning experience, opportunity to share ideas and ask questions
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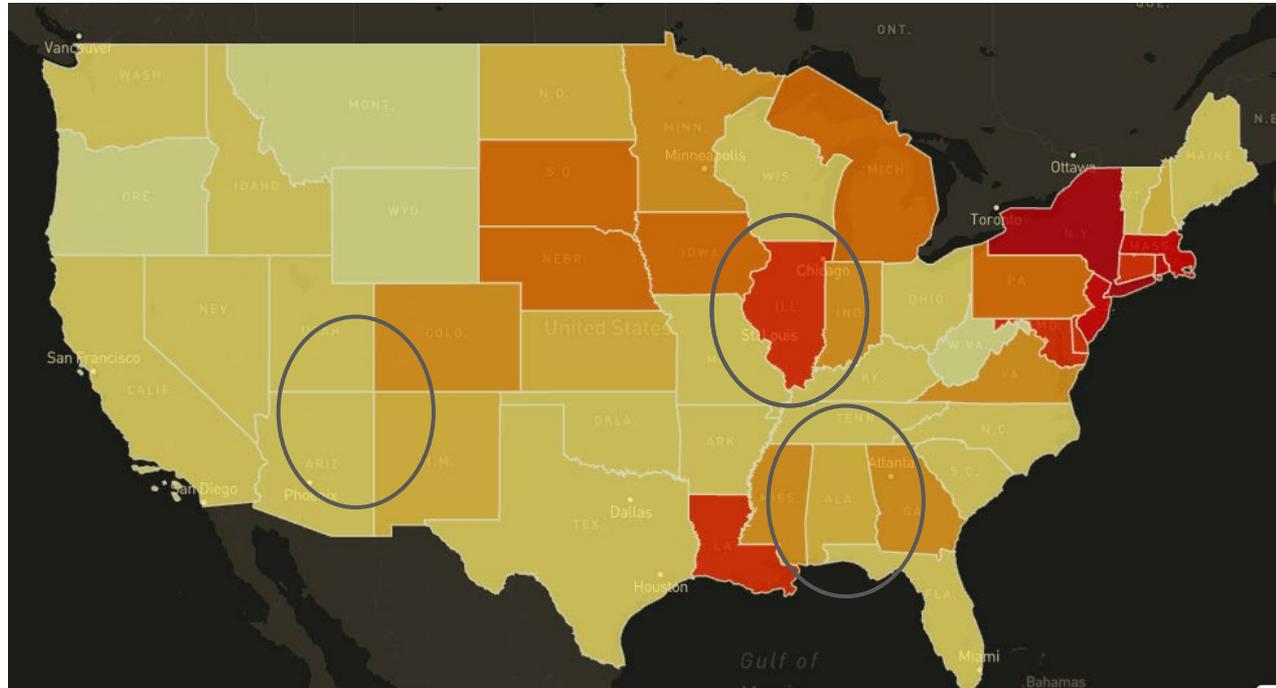


Webinar Discussion Group

The COVID Challenge

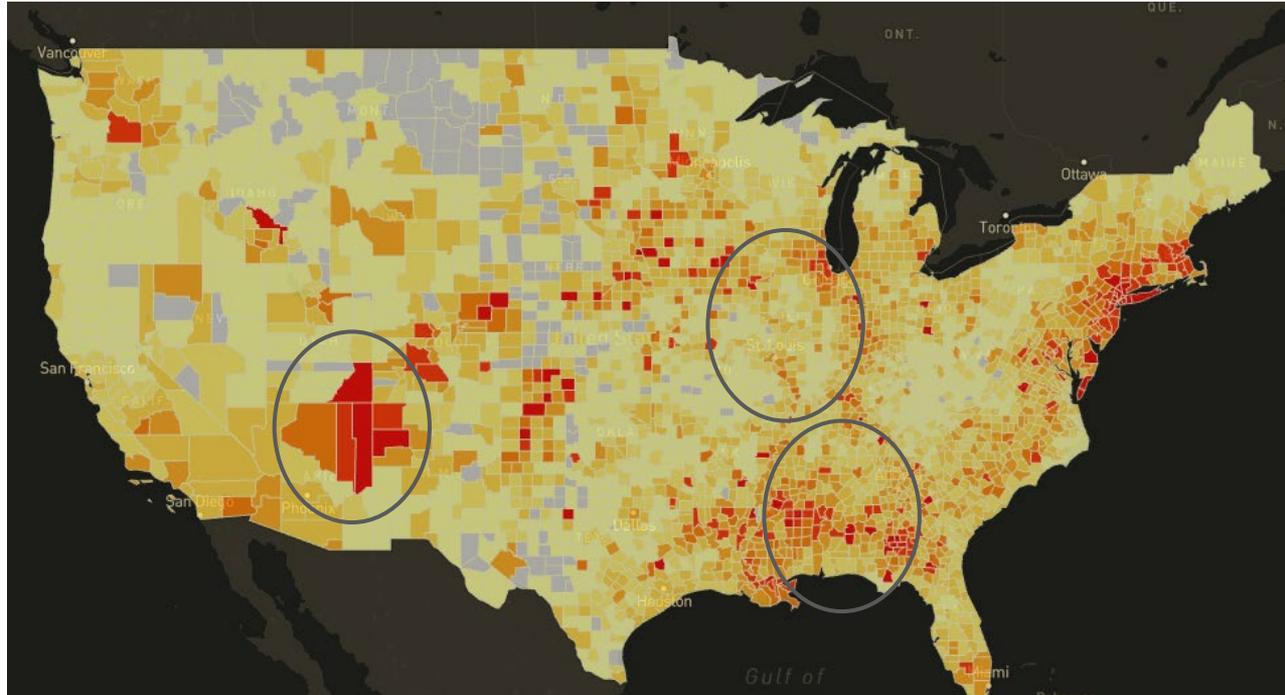
- Lack of publicly available county-level data COVID surveillance
- Existing tools generally only offer static maps with recent data (ie. limited interaction or access to historical records or trends)
- Not all groups can access sophisticated spatial analytic software
- Multiple datasets of differing quality; no authoritative source

State vs County



Confirmed
COVID
Cases by
10,000
persons on
June 1 2020
USAFacts

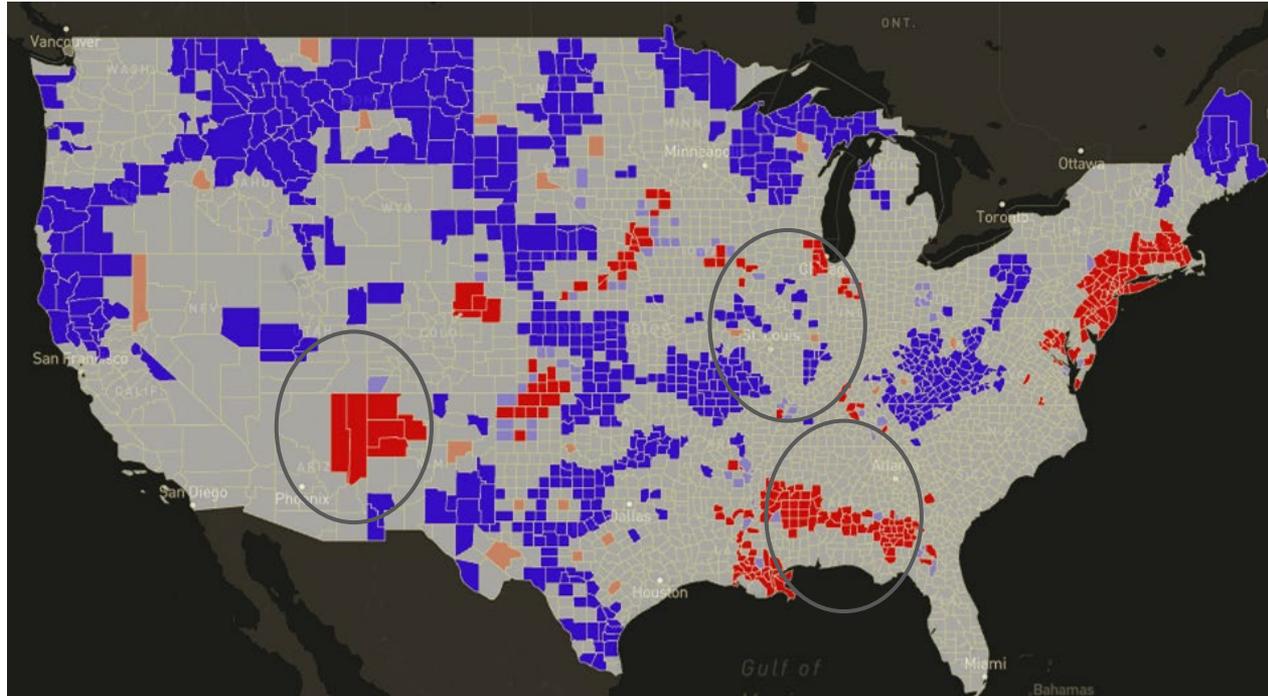
State vs County



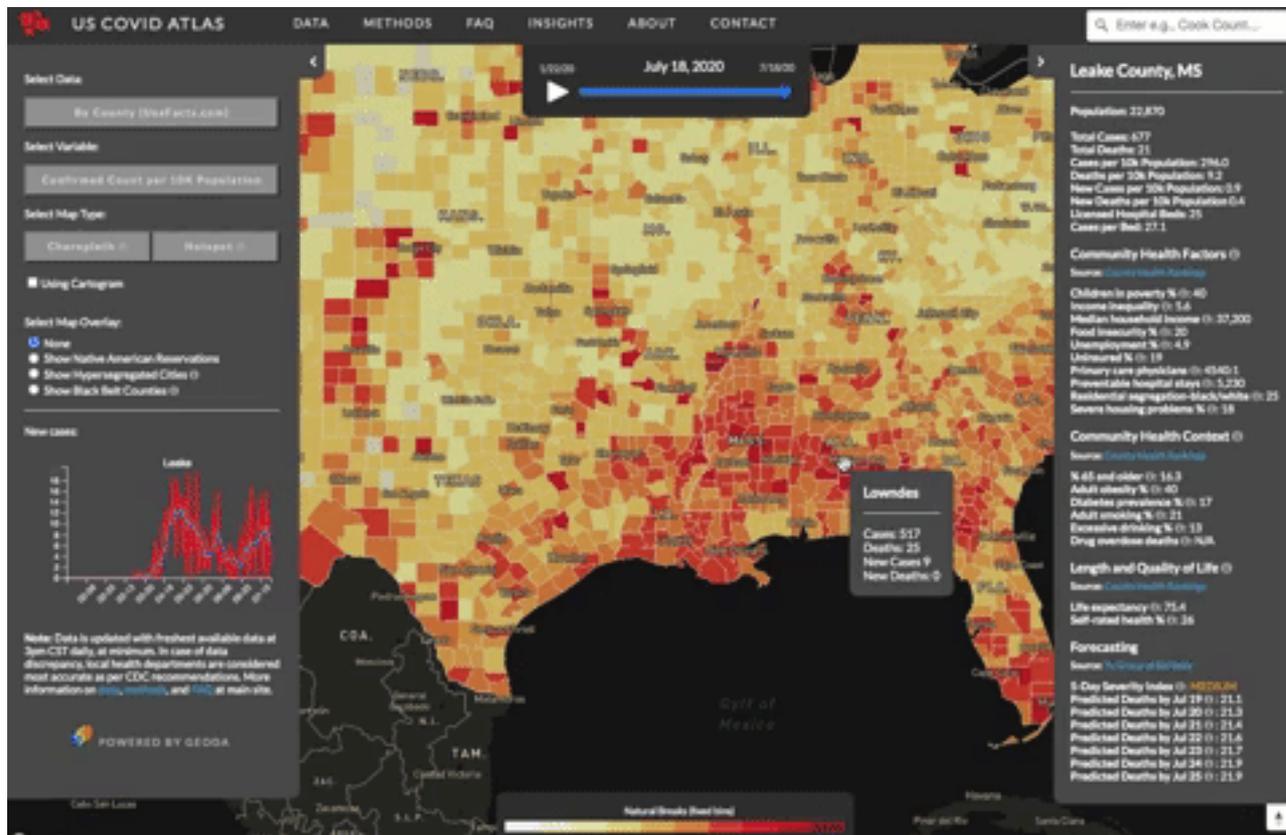
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State vs County

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Our Response: The US COVID Atlas



Data

COVID Health Outcomes

Confirmed Cases
Confirmed Deaths
Daily New Cases
Daily New Deaths
Adjusted by Population
Adjusted by Bed Available

- 1P3A
- USAFacts
- *New York Times*
- *John Hopkins U*

COVID Pandemic Insights

Natural Breaks Classification
Statistical Hotspots/Coldspots
Severity Index
3-, 5-, 7-Day Forecasted Deaths

- Center for Spatial Data Science, U of Chicago
- Dept of Statistics, Berkeley

Health Systems Infrastructure

Staffed beds
Staffed ICU beds
Beds by County

- COVIDCare Map: Definitive Healthcare, Healthcare Cost Report Information System (HCRIS), crowd-sourced updates

Social, Economic, & Environmental

Child Poverty Rate
Income Ratio
Median Household Income
Over 65 Years %
Uninsured Percentage
Primary Care Rate
Preventable Hospitalizations
Black Residential Segregation
Native American Reservations
+ Many more indicators

- Census
- County Health Rankings

The Atlas Allows Users to:

- Identify regional hotspots for mitigation
- Track patterns to better plan ahead
- Interact and forecast viral spread at state and county levels
- Make visible vulnerable communities
- Identify emerging risk

The Research Coalition



County Health
Rankings & Roadmaps

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Who Uses the Atlas?

Healthcare Professionals

- National network of Rural Healthcare Practitioners
- Division of Provider Services and Quality Assurance (DHS) in Arkansas
- Pediatrics Researcher, Children's Hospital in Bronx
- Cincinnati Children's Hospital
- UTexas Medical School
- Stanford Medicine

The Public

65,000+ users

Businesses

- Food Corporation executive managing multiple factories in Tennessee
- Multiple businesses within Dallas, TX area

Journalists

Washington Post, New York Times, Scientific American, Wall Street Journal, Business Insider, ABC News, WGN

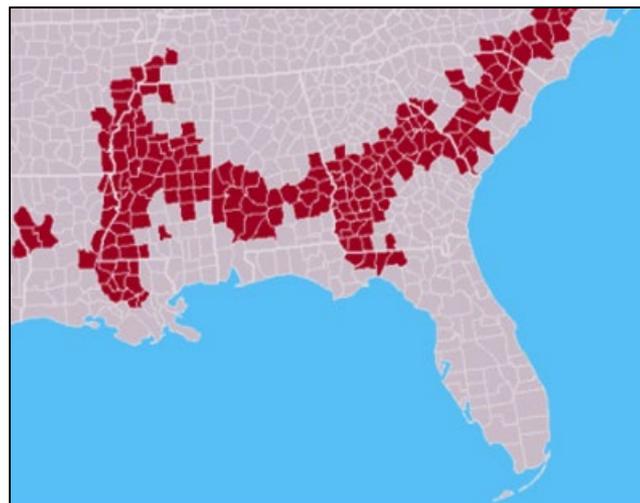
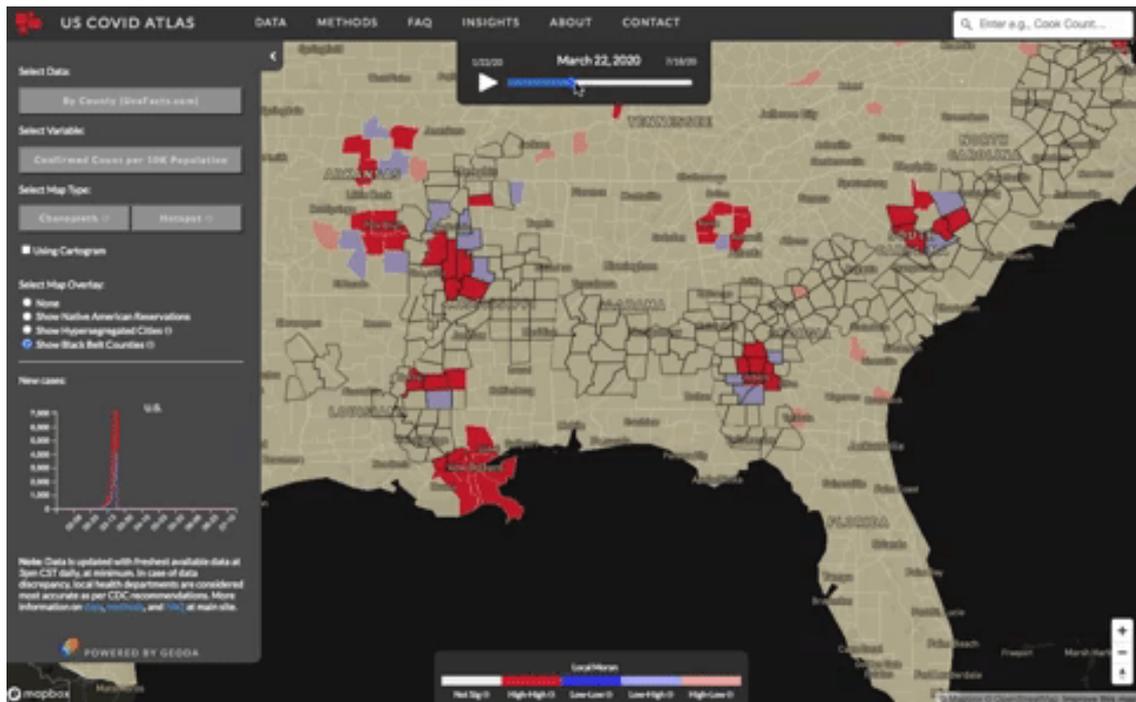
Identified Vulnerability in Rural Areas

- 93% increase since end of May in rural vs 62% in urban
- Population-adjusted measures highlight rurality vuln. since March/April
- Less hospital infrastructure and generally more vulnerable groups on average

County Indicators		URBAN	RURAL
COVID	% Change in Cases Per 10K Persons from end of May to July 6	62	93
Length & Quality of Life	Life Expectancy Average number of years a person can expect to live	78	77
	Self-rated health % Percentage of adults reporting fair or poor health	17	18
Community Health Context	People ages 65 and over %	16	18
	Adult Obesity % Percentage of the adults age 20 & above that report a body mass index (BMI) \geq 30 kg/m ²	32	34
	Diabetes prevalence % Percentage of adults aged 20 & above with diagnosed diabetes	11	13
	Adult smoking % Percentage of adults who are current smokers	17	18
	Excessive drinking % Percentage of adults reporting binge or heavy drinking	18	17
	Drug overdose deaths Number of drug poisoning deaths per 100,000 population	22	24
Community Health Factors	Children in poverty % Percentage of children under age 18 living in poverty	19	23
	Median household income	\$58,414	\$48,853
	Uninsured % Percentage of people under age 65 without insurance	10	11

Counties with more than 50% population living in Rural Areas as per the County Rurality Level 2010 report from 2010 Census are classified as rural.

Uncovered Vulnerable Communities



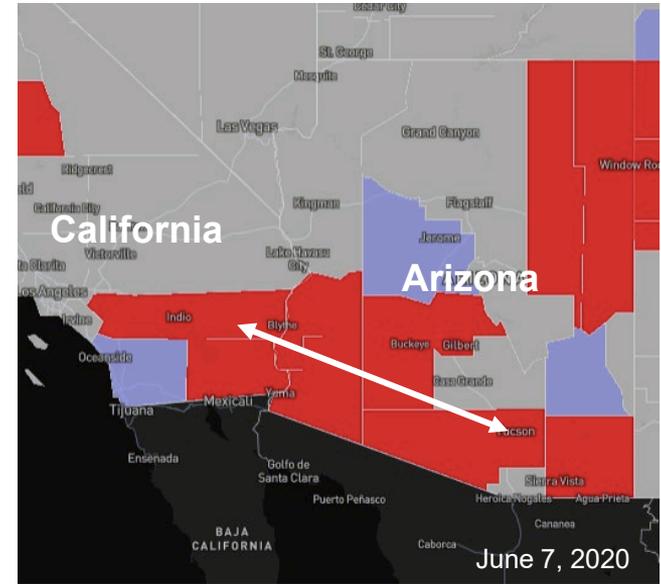
Persistent & Growing Hotspots in the Black Belt of the Southern U.S.

Track Emerging Trends & Unexpected Hotspots

Each hotspot has its own story:

- funeral,
- church,
- meatpacking plant,
- essential worker commuting patterns,
- response to varying policies between states
- etc.

Use confirmed COVID case rate & 7-day average new case rate via choropleth + hotspots to explore.



COVID is a national story with a local experience.

DATA – UNDERSTANDING CONTEXT

	Dane County	Trend	Error Margin	Top U.S. Performers	Wisconsin	Rank (of 72)
Health Outcomes						12
Length of Life						8
Premature death	4,900		4,700-5,100	5,500	6,400	
Quality of Life						25
Poor or fair health	12%		12-12%	12%	17%	
Poor physical health days	3.2		3.1-3.3	3.1	3.9	
Poor mental health days	3.4		3.3-3.6	3.4	4.0	
Low birthweight	7%		7-7%	6%	7%	
Additional Health Outcomes (not included in overall ranking) +						
Health Factors						3
Health Behaviors						3
Adult smoking	12%		12-13%	14%	16%	
Adult obesity	23%		20-25%	26%	31%	
Food environment index	8.4			8.6	8.8	

- ▶ The inequities we are seeing in COVID are long-standing, unfair patterns.
- ▶ CHRR, Census, City Health Dashboard and other data platforms help understand the context of your community
- ▶ It's an important first step, but the work does not stop there.

COMPLETING THE DATA STORY

- ▶ Local, real-time data is invaluable – and stories and lived experiences are data, too!
- ▶ Who in your community can you engage in order to better understand or track how COVID is affecting your community?
- ▶ Center equity in the data collection process

US COVID-19 ATLAS COMMUNITY OF PRACTICE

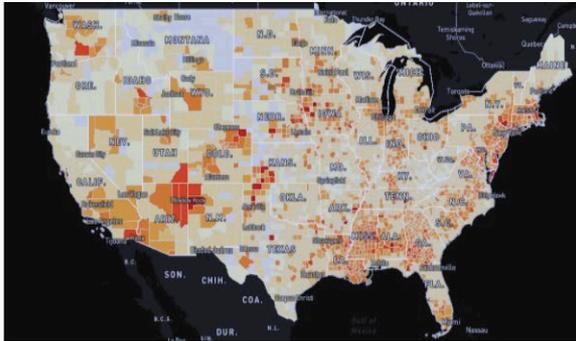
Home

Sign In/Sign Up

Welcome to the U.S. COVID-19 Atlas Community

The US COVID Atlas is a county-level visualization tool that enables interactive exploration of COVID case data and community indicators across the United States from multiple sources, from the beginning of the pandemic to today. In a quickly changing pandemic landscape, access to county-level data and regional insights is crucial to understanding needs and supporting planning and intervention efforts.

Click on the map to view the Atlas



 US COVID Atlas

COVID-19 Atlas Forum

Recent Posts

COVID Atlas
• What does the Pandemic Severity Index tell me on the Atlas?

What does the Pandemic Severity Index tell me on the Atlas?

Statistics:
Posted by gwolverton@spreadinnovati on.com — ...
Read more

COVID Atlas
• How do I find and distinguish different types of hotpots in the Atlas?

How do I find and distinguish different types of hotpots in the Atlas?

Statistics:
Posted by...

COVID Atlas
• What is the top wishlist item you'd like to see on the Atlas?

What is the top wishlist item you'd like to see on the Atlas? For example:...

Read more
Published on:
2020-07-03

COVID Atlas
• What are your favorite features of the Atlas?

What are your most favorite features of the Atlas?
Statistics:
Posted by gwolverton@spreadinnovati on.com — Fri Jul...
Read more

Published on:

<https://covidatlas.healthcarecommunities.org/>

DIG IN: ACTION LEARNING GUIDES

Action Learning Guides

Dig into specific topics with a blend of guidance, tools, and hands-on practice and reflection activities.

Understand and Use Data to Improve Health



What Are Data?

This guide introduces you to different types of data, different methods for measuring the health of your community, and common sources of data that you can access to support your work.

[Get Started >](#)



Why Use Data?

Explore the many ways you might use data in your own community, from assessing your areas of strength to supporting policy change that will address health inequities.

[Get Started >](#)



Improving Data Fluency

Ready to gain a deeper understanding of the kinds of data available and why they matter to community health improvement? This guide will help you make sense of new and existing data.

[Get Started >](#)

- ▶ Blend of guidance, tools, and hands-on practice to help you get started and support community change
- ▶ Topics include:
 - Understanding and using data
 - Promoting health and equity
 - Focusing on factors that influence health



Kansas City, MO

QUESTIONS?



24:1 Community, MO, 2016

WE WANT TO HEAR FROM YOU!

Click the link to answer a few questions about today's webinar.

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Webinar Discussion Group

JOIN US FOR A SPECIAL TOPICS WEBINAR SERIES

Health Equity and Social Solidarity in the Time of Pandemic: Strategies for COVID-19 Response and Recovery

Webinars will highlight challenges communities are facing as they respond to COVID-19 and offer insights from local and national leaders as we work toward a more inclusive and equitable recovery for all.

Exploring Guaranteed Income as a Strategy to Address Income Inequality

Watch on-demand

COVID-19: Disproportionate Impact on Black Communities

Watch on-demand

COVID-19: Disproportionate Impact on Tribal Nations

Watch on-demand

Responding to Crisis in the LatinX Population with an Equity Lens

Tuesday, August 13 | 3:00 – 3:30pm ET

Register now or watch past webinars on-demand: www.countyhealthrankings.org/webinars

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REGISTRATION LINK IN CHAT