

Digital Divide Data worksheet

What does the digital divide *look like* in your area? Collecting and sharing this information can start important discussions among libraries, community leaders, and residents and get one step closer to ensuring equitable digital access to information for all Arizonans. This data may be used for grant applications, program planning, and community advocacy.

☐ Task 1: Gather data on computer and internet use in your area

Complete the following chart for your county. Use the U.S. Census Narrative Profiles tool: <https://www.census.gov/acs/www/data/data-tables-and-tools/narrative-profiles/2018/>

Scroll to the bottom of the page for the heading “Computer and Internet Use.” Repeat this process for County, Place, Census Tract, ZIP Code, and American Indian Area Homeland as desired.

	New York	Erie County
Households with a computer	88.2%	86.2%
...with a desktop or laptop	78.8%	75.0%
...with a smartphone	74.5%	70.5%
...with a tablet or portable wireless computer	56.6%	54.2%
...with other	5.3%	2.6%
Households with a broadband internet subscription	80.9%	78.6%
...cellular data plan	54.3%	52.3%
...broadband such as cable, fiber optic, or DSL	72.2%	68.6%
Satellite	3.4%	3.3%
...dial-up alone	0.4%	0.5%
...other service alone	0.2%	0.1%

Source: U.S. Census Bureau, 2014-2018 American Community Survey 5-Year Estimates

Task 2: Gather data on Internet Service Providers (ISP) in your area

Almost 88% of consumers in Arizona have access to a wired connection with true broadband speeds faster than 25 Mbps. To find out how your area compares, go to BroadbandNow <https://broadbandnow.com> and enter your zip code. Then complete the following:

- There are ____ residential internet providers. The fastest speed available is ____ Mbps
- There are ____ mobile internet providers. The fastest speed available is ____ Mbps
- The average download speed in my area is ____ Mbps
- The lowest price is \$_____/month for service at ____ Mbps from _____(ISP)
- The highest price is \$_____/month for service at ____Mbps from _____(ISP)

If your area is covered by one of the providers listed below, individuals may be eligible for discounted service if they meet certain age or income criteria. Discount prices are not listed on BroadbandNow.

Discount Internet & Technology for Individuals in Arizona

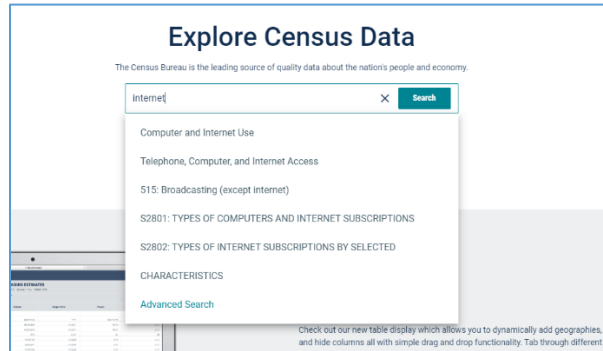
Provider	Program Name	Website	Internet	Devices
Cox Communications	Cox Connect2Compete	http://connect2compete.org/cox/	▲	
Mediacom	Mediacom Connect-2-Compete	http://mediacomc2c.com/	▲	
Suddenlink and Optimum	Advantage Internet	http://www.alticeadvantageinternet.com/#/	▲	
Comcast	Internet Essentials	https://internetessentials.com/	▲	▲
PCs for People (Sprint network)	Bridging the Gap	https://www.pcsforpeople.org/get-technology/	▲	▲
Tohono O’Odham Utility Authority	Elders and Low-Income Subsidy	https://tousa.net/community-events/subsidy/	▲	
Gila River Telecommunications	Lifeline and Link-Up for Tribal Lands; Elder Concession	https://www.gilarivertel.com/residential/discounted-services	▲	

Extra Credit: Make a Community Profile Map

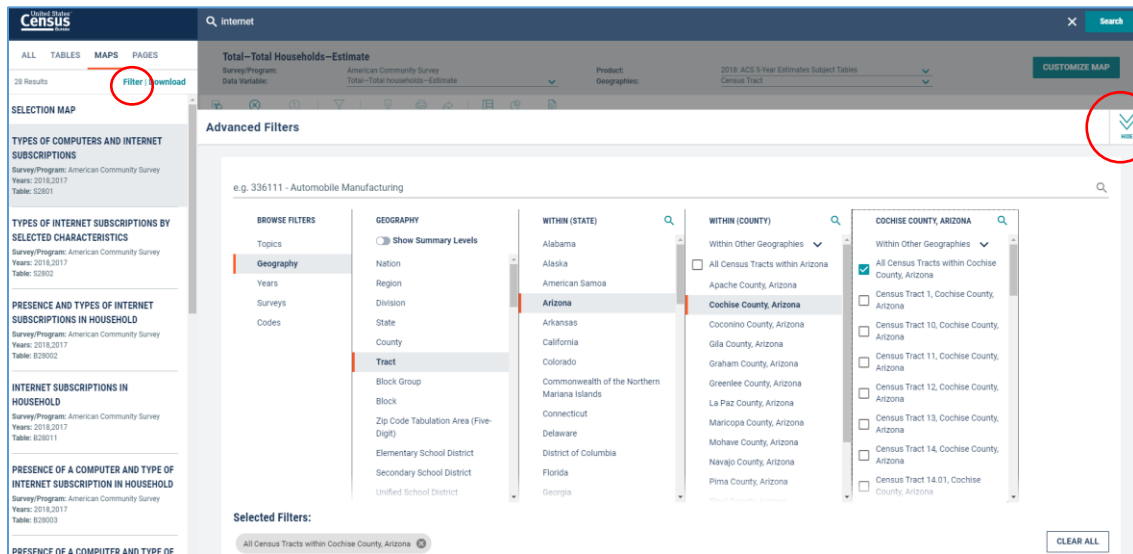
Option 1: Census Map Builder

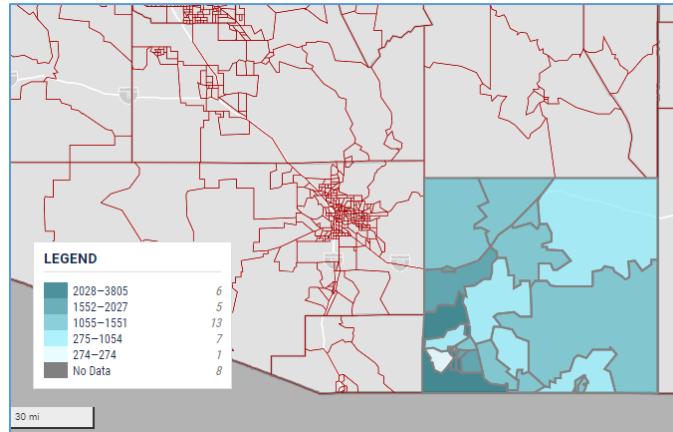
Census Data: <https://data.census.gov/cedsci/>

1. Enter “internet” in the search bar.

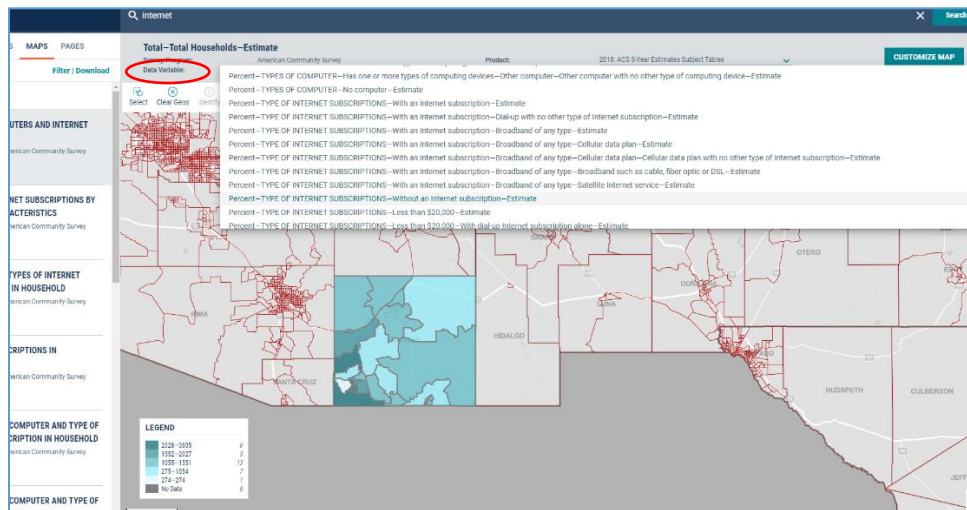


2. In the **Maps** tab, select which dataset you'd like to display on your map. (Tip: It's useful to start with Table B2801 “Types of Computers and Internet Subscriptions”). Click on **Filter** and then click through to select which geographies you'd like to add. In this example, we'll display all census tracts in Cochise County, AZ. Once you have your geographies selected, click on **Hide** in the top right corner to back to the map. You might have to zoom out and reposition the map to display the area you have selected.

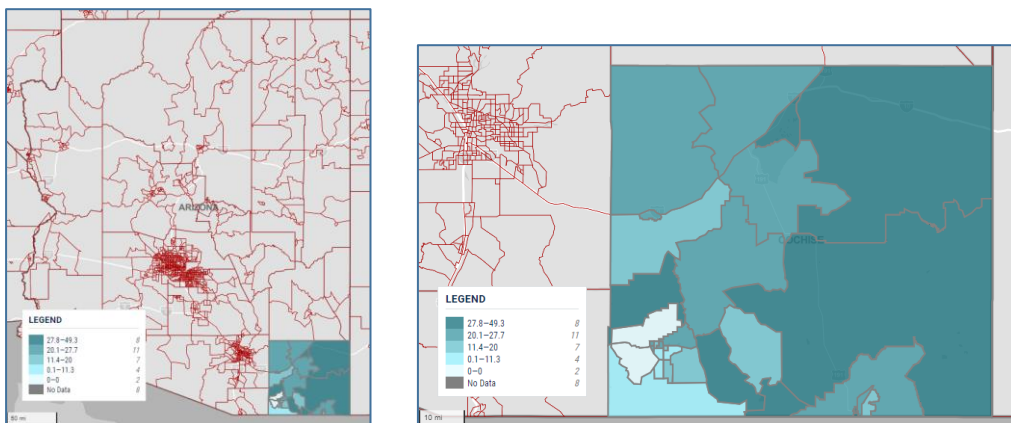




- By default, the map displays estimated totals households for each tract. To show percentage instead, select from the dropdown menu under **Data Variable**. In this example, we want to display “Percent – TYPE OF INTERNET SUBSCRIPTIONS - Without an Internet subscription - Estimate.”



You'll get something like this:



Percent of Households Without an Internet Subscription in Cochise County by Census Tract

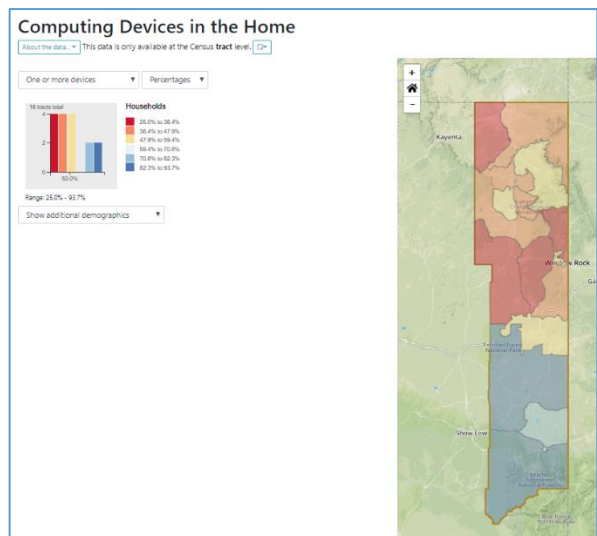
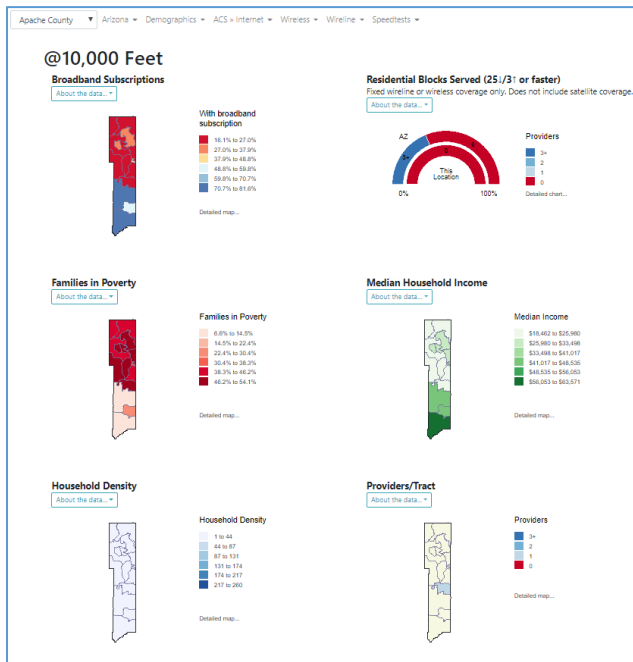
Play around! You can change the colors and the legend by clicking **Customize Map** in the top right corner. You can see and download the data by clicking on **Tables**.

TYPES OF COMPUTERS AND INTERNET SUBSCRIPTIONS					
Census Tract 1, Cochise County, Arizona			Census Tract 2.01, Cochise County, Arizona		
	Total	Percent	Total	Percent	
	Estimate	Estimate	Estimate	Estimate	
✓ Total households	756	(0)	1,347	(0)	
✓ TYPES OF COMPUTER					
✓ Has one or more types of computing dev...	593	78.4%	1,302	87.8%	
✓ Desktop or laptop	511	67.6%	1,017	75.9%	
Desktop or laptop with no other type of ...	122	16.1%	147	10.9%	
Smartphone	439	58.1%	1,004	74.9%	
Smartphone with no other type of comp...	36	4.8%	75	5.6%	
Tablet or other portable wireless compu...	329	43.5%	700	52.0%	
Tablet or other portable wireless compu...	7	0.9%	5	0.4%	
✓ Other computer	17	2.2%	83	6.2%	
Other computer with no other type of co...	0	0.0%	0	0.0%	
No computer	183	24.1%	165	12.2%	
✓ TYPE OF INTERNET SUBSCRIPTIONS					
✓ With an internet subscription	518	68.5%	1,044	77.5%	
Dial-up with no other type of internet subs...	14	1.9%	0	0.0%	

Option 2: Community Profile Builder: I3 Connectivity Tool

<https://internet-is-infrastructure.org/>

This robust tool pulls from a number of different datasets (demographics, speed tests, provider data, adoption and use, anchor institutions), and builds in visualizations for you. You'll need to create an account, which usually gets approved within a matter of hours. Create a "Notebook" for the geography that you'd like to explore. It's recommended to work at the county-level or smaller.



Hungry for more?

Check out the Arizona Libraries Digital Inclusion Resources Hub:
<https://sites.google.com/view/azdigitalinclusion/>



PROVIDING ACCESS
*Preserving
Arizona*
Arizona State Library,
Archives and Public Records

INSTITUTE of
Museum and Library
SERVICES