



Utilizing Federal Data to Measure the Digital Divide

NTIA Webinar Series

You must dial in to hear the webinar!

Conference Line: 800-593-7190 Passcode: 984-4951#

June 17, 2020

Participants

Moderators

- Emy Tseng, Broadband Communication Specialist, BroadbandUSA, NTIA
- Karen Archer Perry, Senior Policy Analyst, BroadbandUSA, NTIA

Presenters

- Rafi Goldberg, Telecommunications Policy Analyst, Office of Policy Analysis and Development, NTIA
- Tyson Weister, Survey Statistician, Dissemination Outreach Branch, Center for Enterprise Dissemination, U.S. Census Bureau

Helpful Information

Questions

- Please type questions in the Q&A box on the right hand side of the screen. Questions will be taken after the final presenter.

Presentation

- The presentation along with a transcript and recording will be available on the BroadbandUSA website within 7 days of this webinar under Events/past events.
- <https://broadbandusa.ntia.doc.gov/past-event>

Technical Assistance

- Guides, products, publications, and other tools are available to assist you with the planning, funding and implementation of your broadband project.
- <https://broadbandusa.ntia.doc.gov>

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Rafi Goldberg, Telecommunications Policy Analyst, Office of Policy Analysis and Development, NTIA





Measuring the Digital Divide

Exploring NTIA's Internet Use Survey

June 17, 2020

Rafi Goldberg

Policy Analyst

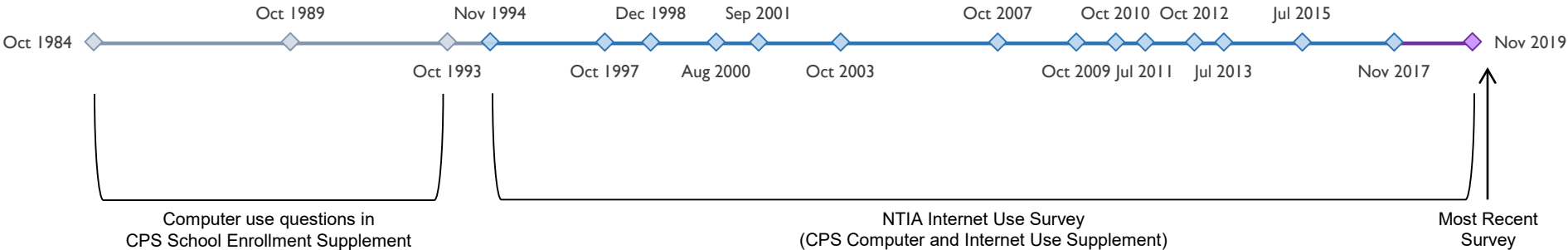
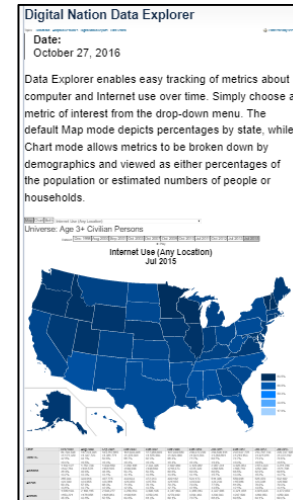
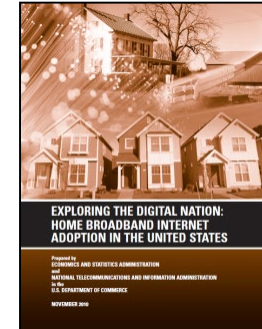
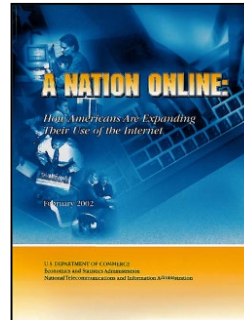
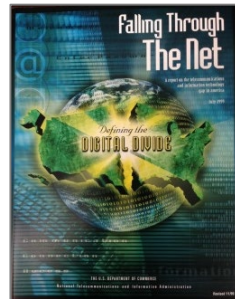
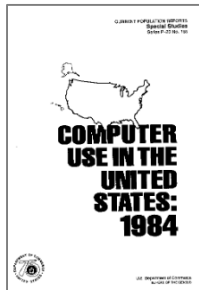
Office of Policy Analysis and Development

Major Federal Data Sources

- NTIA Internet Use Survey
- American Community Survey (ACS)
- FCC Form 477 (Broadband deployment and subscription)
- Others: Dept of Ed, USDA surveys, Census Household Pulse Survey

NTIA Internet Use Survey

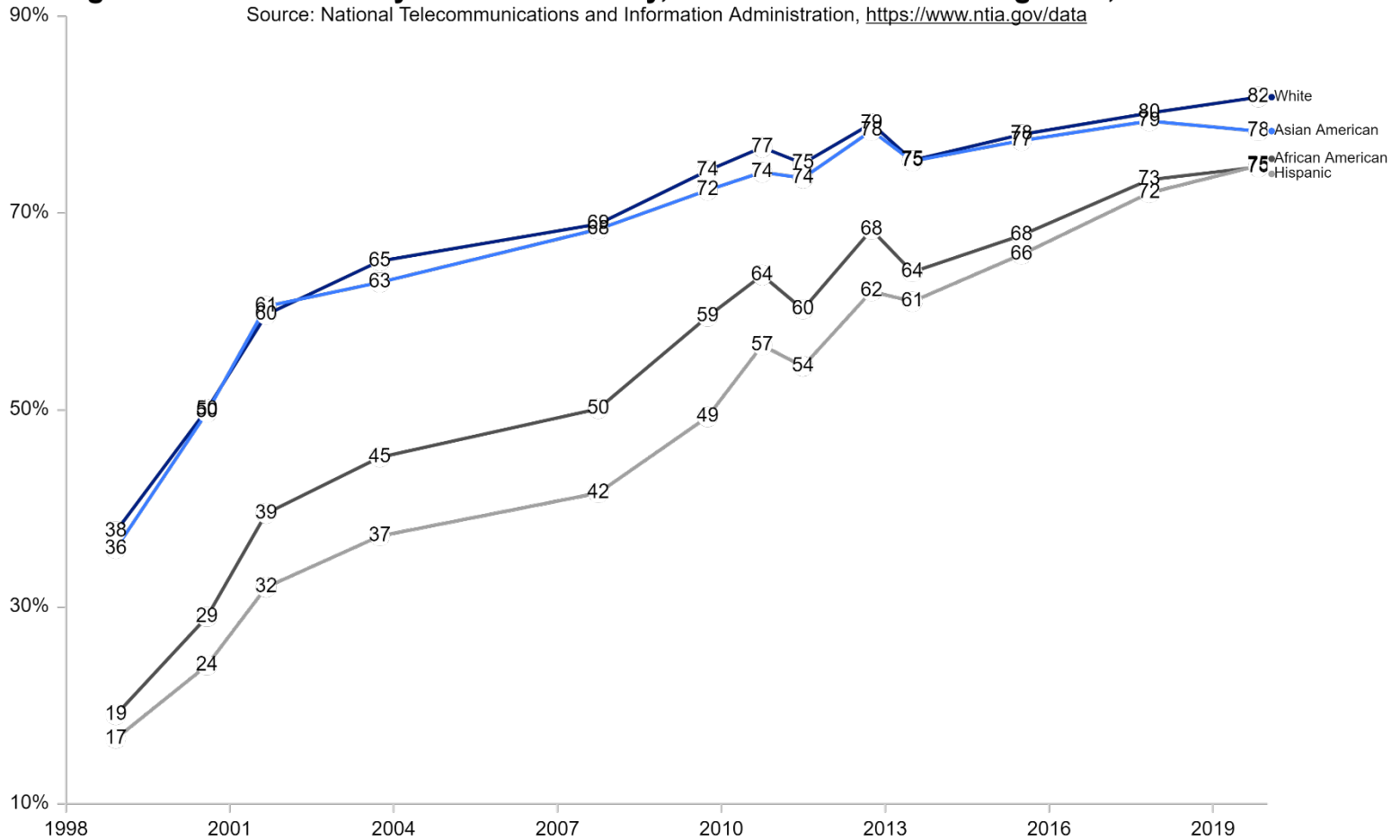
- Over 25-year partnership between NTIA and the Census Bureau
- Administered periodically as a supplement to the Current Population Survey (CPS)
 - In the field every month since 1940
 - ~50,000 households each month, state-based sample design, in-person & live phone interviews
 - Primarily serves as the source of certain labor force statistics, e.g., unemployment rate



Tracking the Digital Divide

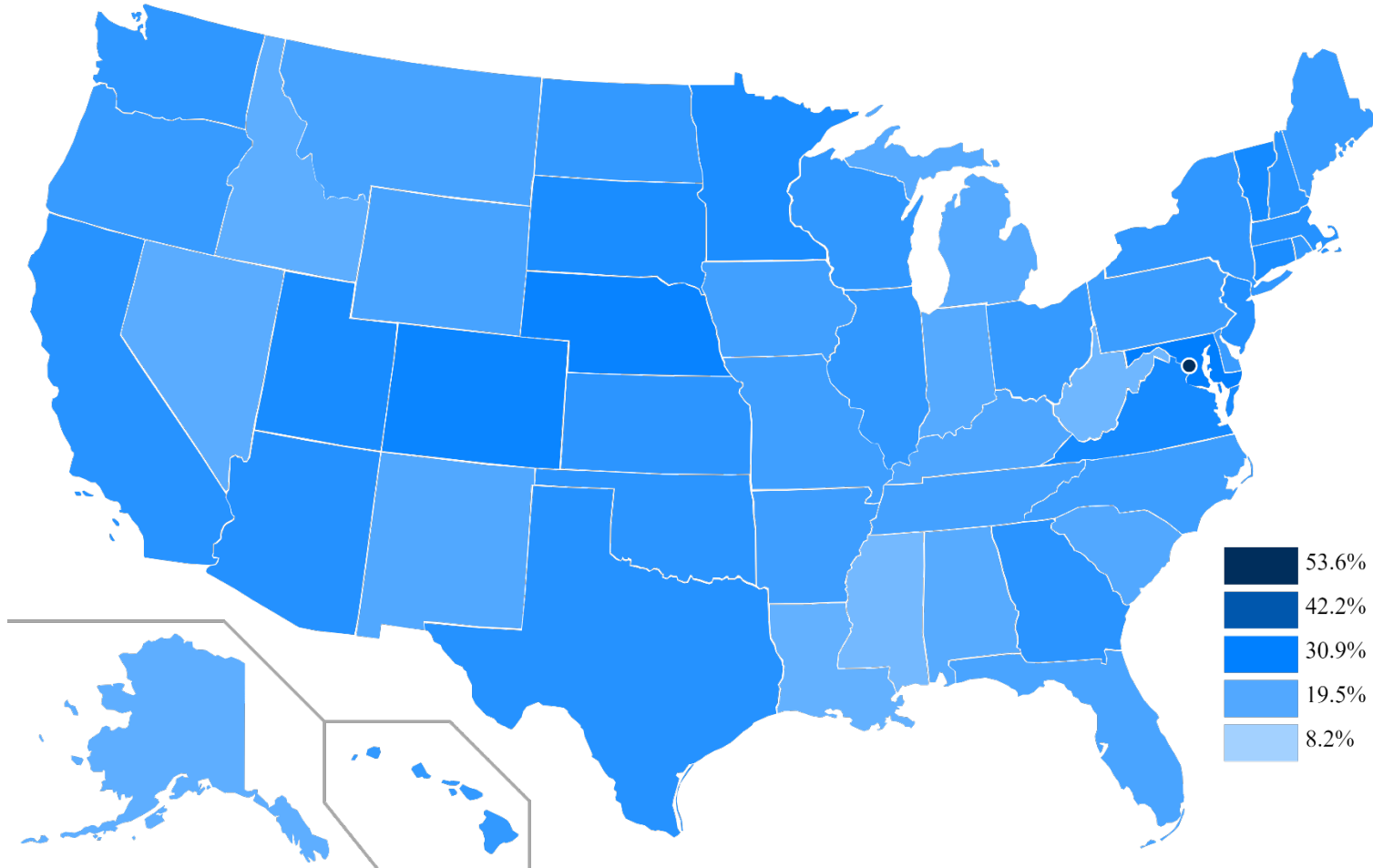
Figure 1: Internet Use by Race or Ethnicity, Percent of Americans Ages 3+, 1998–2019

Source: National Telecommunications and Information Administration, <https://www.ntia.gov/data>



Exploring Online Activities

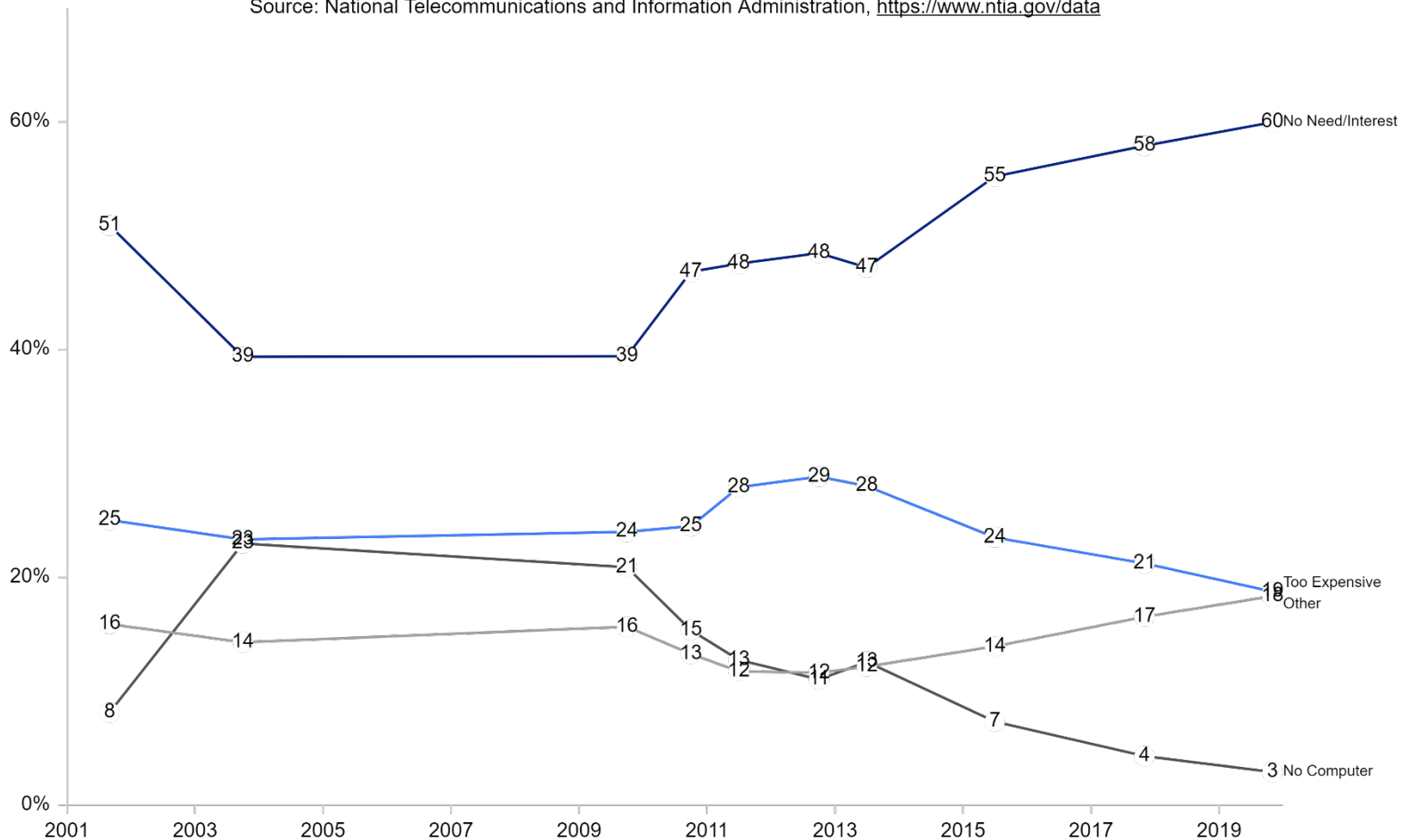
Working Remotely via the Internet by State, Percent of Internet Users Ages 15+, 2019



Understanding Barriers to Adoption

Main Reason for Not Using the Internet at Home, Percent of Offline Households, 2001–2019

Source: National Telecommunications and Information Administration, <https://www.ntia.gov/data>

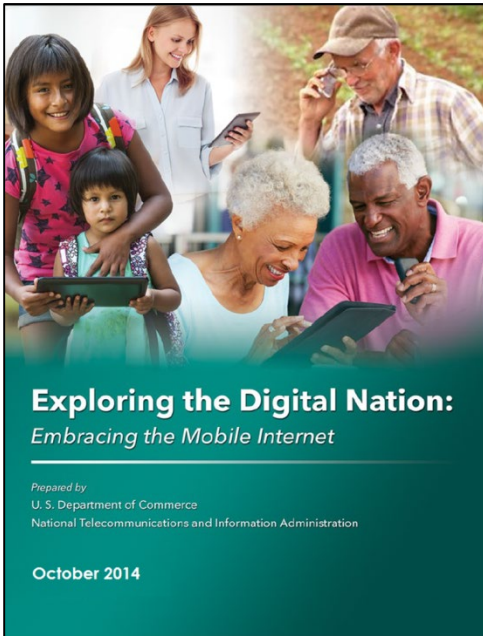


Over 50 Questions About Internet Use

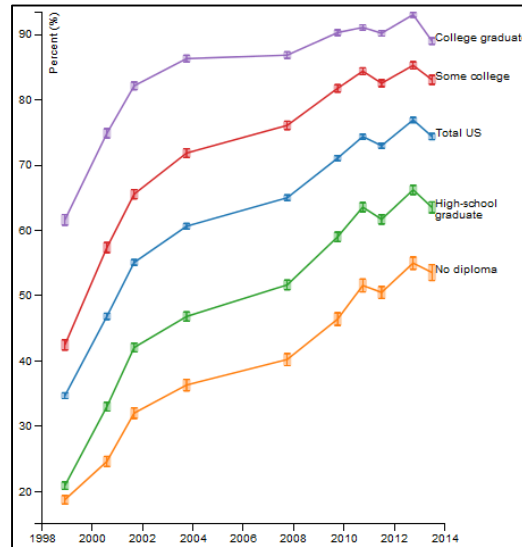
- Devices and Internet access technologies
- Locations of use
- Online activities
- Reasons for non-use
- Privacy and security concerns

NTIA Data Central

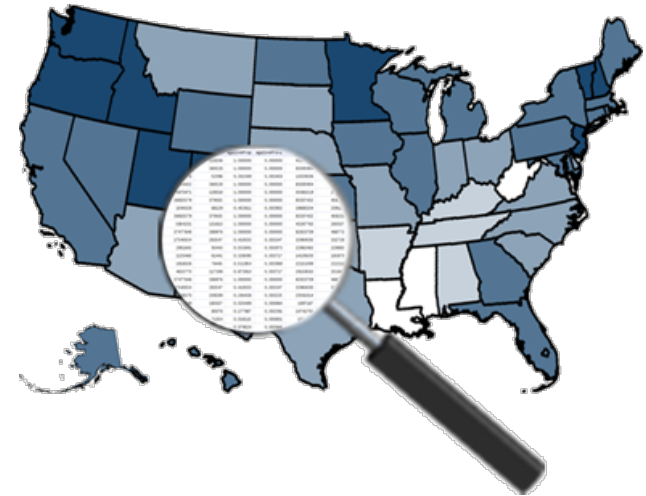
<https://www.ntia.gov/data>



Data Central Blog



Data Explorer



Research Center

Data Central Blog: Recent Topics

<https://www.ntia.gov/data/blogs>

- New 2019 Results: Digital Divide and Device Usage
- Participation in the Sharing Economy
- Cord Cutting/Shift to Streaming Video
- Examining Offline Households
- The Homework Gap
- Privacy and Security Concerns

Research Center

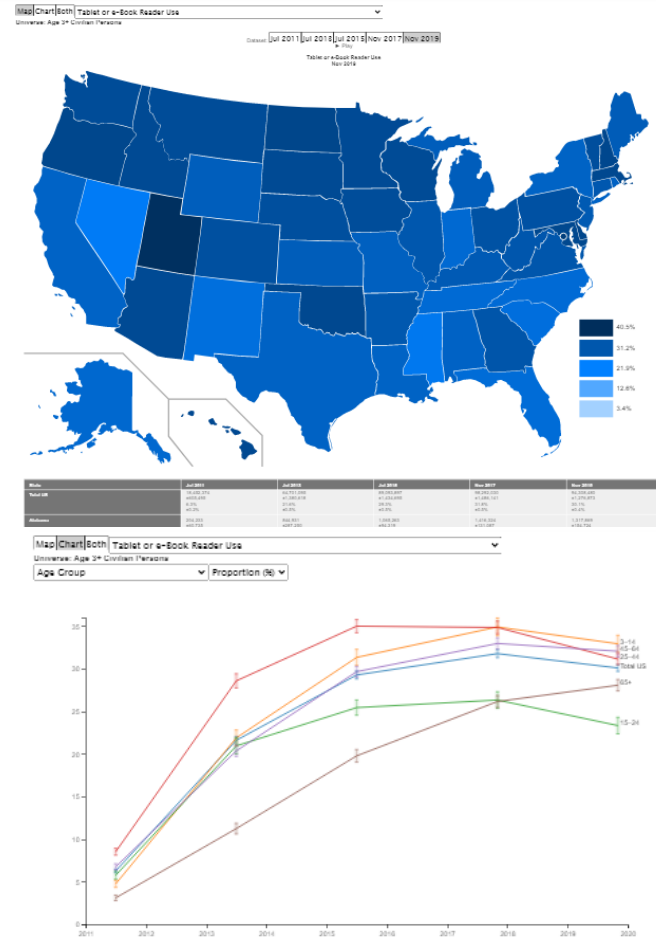
<https://www.ntia.gov/page/digital-nation-research-center>

- Resources for using raw data from the NTIA Internet Use Survey for research
- Every dataset posted with technical documentation (2019 coming soon!)
- Sample code for Stata users
- Help line: data@ntia.gov

Data Explorer

<https://www.ntia.gov/data/digital-nation-data-explorer>

- Visualize dozens of metrics tracked over time
- Break out by state map, or chart by age, income, race, education, disability, etc.
- Quicker and easier than raw datasets, yet customizable



NTIA Data Central:

<https://www.ntia.gov/data>

Questions? rgoldberg@ntia.gov



Join Our Mailing List:

<https://www.ntia.gov/data-central-news-and-announcements>



Website: WWW.NTIA.GOV

Twitter: @NTIAgov

Facebook: Facebook.com/NTIAgov

Utilizing Federal Data to Measure the Digital Divide

Thank you, Rafi!

Tyson Weister, Survey Statistician, Dissemination Outreach Branch, Center for Enterprise Dissemination, U.S. Census Bureau



ACS Computer and Internet Statistics on data.census.gov

BroadbandUSA

June 17, 2020

American Community Survey

The American Community Survey is on the leading edge of survey design, continuous improvement, and data quality

- The nation's most current, reliable, and accessible data source for local statistics on critical planning topics such as age, children, veterans, commuting, education, income, and employment
- Surveys **3.5 million** addresses and informs over **\$675 billion** of Federal government spending each year
- Covers **40+ topics**, supports over **300** evidence-based Federal government uses, and produces **11 billion** estimates each year
- Three key annual data releases:
 - 1-year Estimates (for large populations)
 - 1-year Supplemental Estimates (for small populations)
 - 5-year Estimates (for very small populations)

13180013
U.S. DEPARTMENT OF COMMERCE
Economics and Statistics Administration
U.S. CENSUS BUREAU

THE American Community Survey

This booklet shows the content of the American Community Survey questionnaire.

Start Here
Respond online today at:
<https://respond.census.gov/acs>
OR
Complete this form and mail it back as soon as possible.

This form asks for information about the people who are living or staying at the address on the mailing label and about the house, apartment, or mobile home located at the address on the mailing label.

If you need help or have questions about completing this form, please call 1-800-354-7271. The telephone call is free.
Telephone Device for the Deaf (TDD): Call 1-800-652-8236. The telephone call is free.
¿NECESITA AYUDA? Si usted habla español y necesita ayuda para completar su cuestionario, llame sin cargo alguno al 1-877-833-5625. Usted también puede completar su entrevista por teléfono con un entrevistador que habla español. O puede responder por Internet en: <https://respond.census.gov/acs>
For more information about the American Community Survey, visit our website at: <http://www.census.gov/acs>

Please print today's date.
Month, Day, Year

Please print the name and telephone number of the person who is filling out this form. (We will only contact you if needed for official Census Bureau business.)
Last Name
First Name MI
Area Code + Number

How many people are living or staying at this address?
• INCLUDE everyone who is living or staying here for more than 2 months.
• INCLUDE yourself if you are living here for more than 2 months.
• INCLUDE anyone else staying here who does not have another place to stay, even if they are here for 2 months or less.
• DO NOT INCLUDE anyone who is living somewhere else for more than 2 months, such as a college student living away or someone in the Armed Forces on deployment.
Number of people

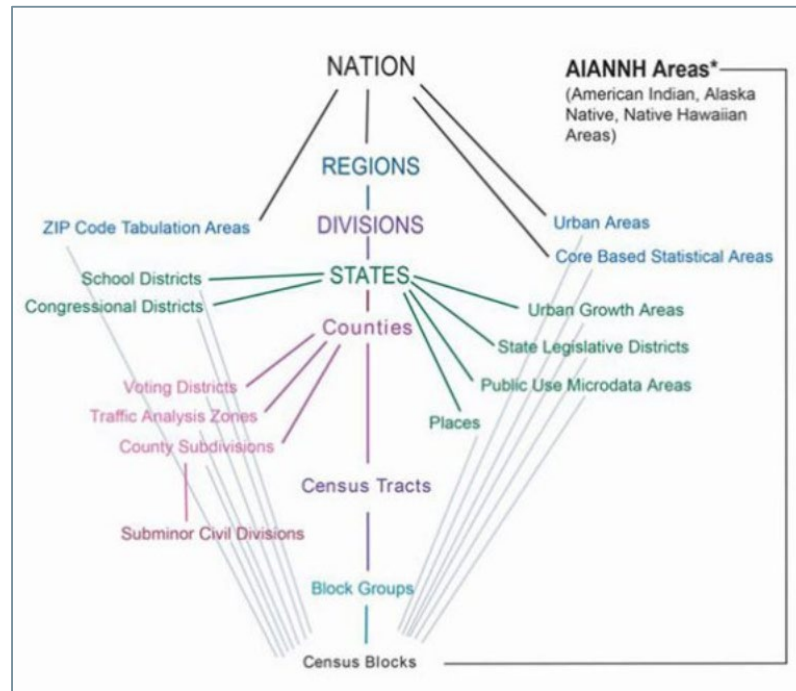
Fill out pages 2, 3, and 4 for everyone, including yourself, who is living or staying at this address for more than 2 months. Then complete the rest of the form.

FORM ACS-1(INFO)(2019)
09-03-2019
OMB No. 0607-0010
OMB No. 0607-0030

Geography & American Community Survey

5-year estimates include:

- All geographic areas down to the census tract and block group level



New Data on Computer & Internet Use

No

9 At this house, apartment, or mobile home - do you or any member of this household own or use any of the following types of computers?

	Yes	No
a. Desktop or laptop	<input type="checkbox"/>	<input type="checkbox"/>
b. Smartphone	<input type="checkbox"/>	<input type="checkbox"/>
c. Tablet or other portable wireless computer	<input type="checkbox"/>	<input type="checkbox"/>
d. Some other type of computer Specify <i>z</i>	<input type="checkbox"/>	<input type="checkbox"/>

10 At this house, apartment, or mobile home - do you or any member of this household have access to the Internet?

Yes, by paying a cell phone company or Internet service provider

Yes, without paying a cell phone company or Internet service provider → *SKIP to question 12*

No access to the Internet at this house, apartment, or mobile home → *SKIP to question 12*

11 Do you or any member of this household have access to the Internet using a -

	Yes	No
a. cellular data plan for a smartphone or other mobile device?	<input type="checkbox"/>	<input type="checkbox"/>
b. broadband (high speed) Internet service such as cable, fiber optic, or DSL service installed in this household?	<input type="checkbox"/>	<input type="checkbox"/>
c. satellite Internet service installed in this household?	<input type="checkbox"/>	<input type="checkbox"/>
d. dial-up Internet service installed in this household?	<input type="checkbox"/>	<input type="checkbox"/>
e. some other service? Specify service <i>z</i>	<input type="checkbox"/>	<input type="checkbox"/>

ACS released 2014-2018

5-year estimates on December 19, 2019!

- Covers 40+ topics: age, demographics, density, children, veterans, commuting, education, income, housing, employment, poverty, industry, housing type,...
- New topics in 2017: **computer, Internet, and cell phone use**

View or Download ACS Data

Q s2801 X Search

TYPES OF COMPUTERS AND INTERNET SUBSCRIPTI...
 Survey/Program: American Community Survey 2017: ACS 1-Year Estimates
 TableID: S2801 CUSTOMIZE TABLE

	United States	
	Total	Percent
	Estimate	Estimate
Total households	120,062,818	(X)
▼ TYPES OF COMPUTER		
▼ Has one or more types of computing devices:	108,981,265	90.8%
▼ Desktop or laptop	93,089,178	77.5%
Desktop or laptop with no other type of computi...	6,230,206	5.2%
▼ Smartphone	98,249,635	81.8%
Smartphone with no other type of computing de...	9,563,286	8.0%
▼ Tablet or other portable wireless computer	74,256,018	61.8%
Tablet or other portable wireless computer with ...	1,202,335	1.0%
▼ Other computer	3,322,231	2.8%

- Access via:
 - data.census.gov
 - [Census API](#)
 - [FTP](#)
 - [Quickfacts](#)

- Many Subject Tables including:
 - “Types of Computers and Internet Subscriptions” [S2801](#)
 - “Types of Internet Subscriptions by Selected Characteristics” [S2802](#)

ACS Questions on Internet Subscriptions

10 At this house, apartment, or mobile home – do you or any member of this household have access to the Internet?

- Yes, by paying a cell phone company or Internet service provider
- Yes, without paying a cell phone company or Internet service provider → *SKIP to question 12*
- No access to the Internet at this house, apartment, or mobile home → *SKIP to question 12*

11 Do you or any member of this household have access to the Internet using a –

- | | Yes | No |
|--|--------------------------|--------------------------|
| a. Cellular data plan for a smartphone or other mobile device? | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Broadband (high speed) Internet service such as cable, fiber optic, or DSL service installed in this household? | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Satellite Internet service installed in this household? | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Dial-up Internet service installed in this household? | <input type="checkbox"/> | <input type="checkbox"/> |
| e. Some other service?
<i>Specify service</i> ↴ | <input type="checkbox"/> | <input type="checkbox"/> |

U.S. Internet Subscriptions: 2014-2018 ACS 5-Year

80.9% - With an Internet Subscription

80.4% - Broadband of any type

67.9% - Broadband such as cable, fiber optic or DSL

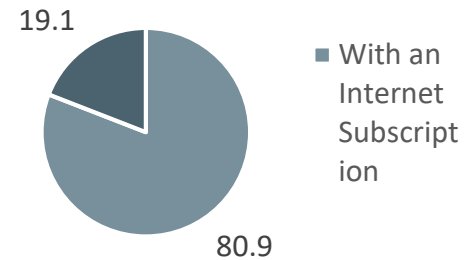
5.9% - Satellite Internet service

57.8% - Cellular data plan

8.8% - Cellular data plan only

0.5% -Dial-up with no other type of Internet subscription

19.1% - Without an Internet Subscription



ACS Questions on Computer Ownership

9 At this house, apartment, or mobile home - do you or any member of this household own or use any of the following types of computers?

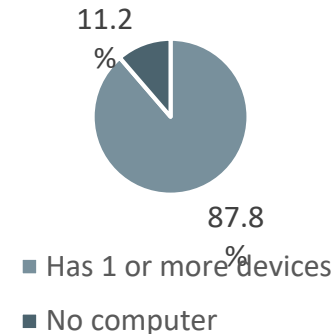
	Yes	No
a. Desktop or laptop	<input type="checkbox"/>	<input type="checkbox"/>
b. Smartphone	<input type="checkbox"/>	<input type="checkbox"/>
c. Tablet or other portable wireless computer	<input type="checkbox"/>	<input type="checkbox"/>
d. Some other type of computer <i>Specify</i> ↴	<input type="checkbox"/>	<input type="checkbox"/>

U.S. Computer Ownership: 2014-2018 ACS 5-Year

- **87.8% - One or more computing devices**

- 77.9% - Desktop or laptop
 - 8.7% Desktop or laptop w/ no other device
- **75.9% Smartphone**
 - 5.4% Smartphone with no other type of computing device
- 57.2% Tablet or other portable wireless computer
 - 0.8% Tablet or other portable wireless computer w/ no other device –
- 4.3% Other computer
 - 0.1% Other computer with no other type of computing device

- **11.2% - No computer**



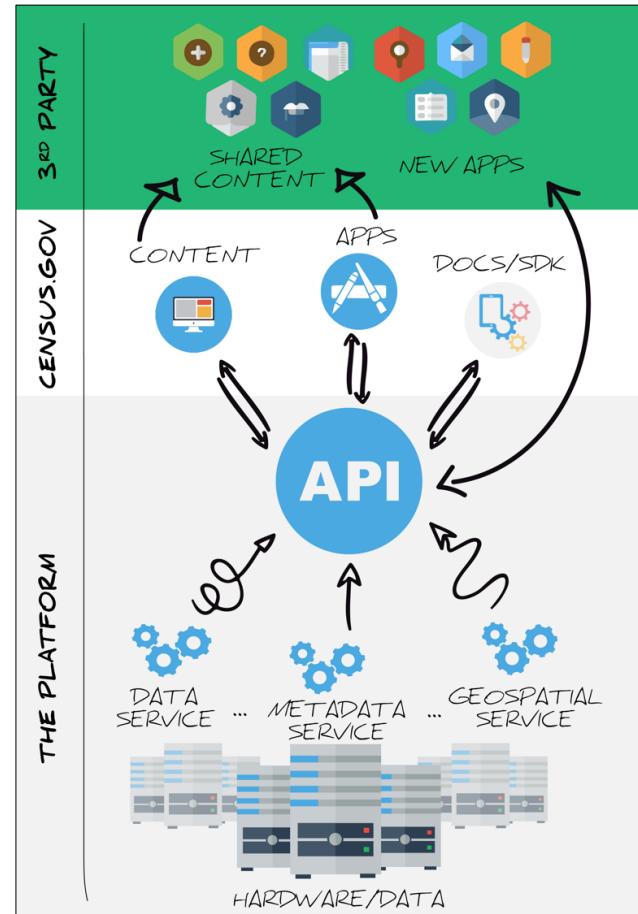
data.census.gov: Changing the way you get data

New dissemination platform:

- Streamline access to data on census.gov search
 - One platform allows all content to be searchable
- Maintain best of current tools
 - Functionality available for all data
- Reduce redundancies and costs
 - One platform = One delivery
- Provide greater access to Census API

Data.census.gov is a work in progress:

- Agile software development process
- Two month cycle of development:
 - Develop, Release, Feedback, Redefine, Release Again
- Customer-driven development based on feedback



Surveys and Programs on data.census.gov

Data Product	2000	2010	2011	2012	2013	2014	2015	2016	2017	2018
American Community Survey	–	✓	✓	✓	✓	✓	✓	✓	✓	✓
Decennial Census (Selected Tables)	✓	✓	–	–	–	–	–	–	–	–
Economic Census	–	–	–	✓	–	–	–	–	✓	–
County and Zip Code Business Patterns	–	–	–	✓	✓	✓	✓	✓	✓	
Non-Employer Statistics	–	–	–	✓	✓	✓	✓	✓	✓	
Survey of Business Owners (Company Summary & Characteristics of Business Owners)	–	–	–	✓	–	–	–	–	–	–

✓: Available now

Blank cell: Coming soon

Example 1 - Advanced Search: Search by Topic

Internet Subscription
Mobile, Alabama

Select Geography: Mobile city

- Select Geography

Geography →
Place →
Alabama →
**Mobile city,
Alabama**

TIP: Click the magnifying glass at the top of the panel to search the list of places in Alabama

Select Topic

BROWSE FILTERS	TOPICS	HOUSING	PHYSICAL CHARACTERISTICS
Topics	Business and Economy	<input type="checkbox"/> Housing	<input type="checkbox"/> Physical Characteristics
Geography	Education	<input type="checkbox"/> Absorption Rate	<input type="checkbox"/> Building Materials and Structural Features
Years	Employment	<input type="checkbox"/> Homeownership Rate	<input type="checkbox"/> Heating and Air Conditioning (HVAC)
Surveys	Families and Living Arrangements	<input type="checkbox"/> Housing Units	<input type="checkbox"/> Lot Size
Codes	Government	Financial Characteristics	<input type="checkbox"/> Neighborhood Features
	Health	Health and Safety Characteristics	<input type="checkbox"/> Outdoor Features
	Housing	New and Existing Units	<input type="checkbox"/> Parking/Garage
	Income and Poverty	Occupancy Characteristics	<input checked="" type="checkbox"/> Telephone, Computer, and Internet Access
	Populations and People	Owner/Renter (Householder) Characteristics	<input type="checkbox"/> Types of Rooms
	Race and Ethnicity	Physical Characteristics	
		Vacancy	

Use advanced search:

- Topics → Housing → Physical Characteristics → **Telephone, Computer, and Internet Access**
- Verify filters and click **Search** in the lower right

Selected Filters CLEAR FILTERS SEARCH HIDE

Telephone, Computer, and Internet Access × Mobile city, Alabama ×

Search Query: t:Telephone, Computer, and Internet Access g:Mobile city, Alabama 📄

Choose Table, Verify Product Drop Down, and Click Customize Table

- Click Tables in the upper left
- Verify product drop down menu says is set to your desired dataset (ACS 1-year or ACS 5-year estimates)
- Select your table
- Click Customize Table

The screenshot shows the United States Census Bureau data portal. The 'TABLES' tab is selected in the upper left. The main content area displays a table titled 'TYPES OF INTERNET SUBSCRIPTIONS BY SELECTED CHARACTERISTICS'. The product dropdown menu is set to '2018: ACS 1-Year Estimates Subject Tables'. A 'CUSTOMIZE TABLE' button is visible in the top right corner of the table area.

Total		Broadband Internet Subscription		
	Estimate	Margin of Error	Estimate	Margin of Error
✓ Total population in hou...	184,206	+/-1,181	143,838	+/-6,112
✓ AGE				
Under 18 years	39,114	+/-2,692	31,390	+/-3,582
18 to 64 years	112,843	+/-2,752	90,381	+/-4,341
65 years and over	32,249	+/-2,025	22,067	+/-2,419
✓ RACE AND HISPANIC ...				
White alone	76,497	+/-4,310	67,554	+/-4,121
Black or African Amer...	100,498	+/-4,537	69,721	+/-5,760

Customize Your View

1. Expand or collapse columns by dragging it left or right in the shaded area
2. Click, hold and drag columns off your screen to hide them
3. Toggle on/off the margin of error (MOE) as desired

The screenshot shows a data table titled "TYPES OF INTERNET SUBSCRIPTIONS BY SELECTED CHARACTERISTICS". The table has columns for "Total", "Broadband Internet Subscription", and "Percent Broadband In...". The "Broadband Internet Subscription" column is further divided into "Estimate" and "Margin of Error". The "Percent Broadband In..." column has an "Estimate" sub-column. A red box highlights the "Estimate" button in the top toolbar. Red arrows point from the text instructions to the shaded column headers, the "Estimate" button, and the "Margin of Error" toggle.

	Total		Broadband Internet Subscription		Percent Broadband In...
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate
▼ Total population in hou...	184,206	+/-1,181	143,838	+/-6,112	78.1%
▼ AGE					
Under 18 years	39,114	+/-2,692	31,390	+/-3,582	80.3%
18 to 64 years	112,843	+/-2,752	90,381	+/-4,341	80.1%
65 years and over	32,249	+/-2,025	22,067	+/-2,419	68.4%
▼ RACE AND HISPANIC ...					

View Table Results

// Search / Tables / S2802

TYPES OF INTERNET SUBSCRIPTIONS BY SELECTED CHARACTERISTICS

Survey/Program: American Community Survey TableID: S2802 Product: 2018: ACS 1-Year Estimates Subject Tables

Data Notes | Selections | 1 Geography | Years | 1 Topic | Survey | Code | Hide | Filter | Sort | Transpose Table | Margin of Error | More

Mobile city, Alabama			
	Total	With a computer	Percent no computer in household
	Percent without an Internet Subscription		
	Estimate	Estimate	Estimate
▼ Total population in households	184,206	10.2%	10.3%
▼ AGE			
Under 18 years	39,114	8.3%	7.7%
18 to 64 years	112,843	11.5%	7.4%
65 years and over	32,249	8.0%	23.4%
▼ RACE AND HISPANIC OR LATINO ...			
White alone	76,497	4.5%	6.4%

Example 2 - Advanced Search: Search by Table ID and Mapping:

All census tracts in Mobile County

Specify Table ID

United States
Census
Bureau

Search

// Search / Advanced Search

Advanced Search

S2801

Narrow search with filters

FIND A FILTER

e.g. 336111 - Automobile Manufacturing

BROWSE FILTERS

Topics

Geography

Selected Filters:

CLEAR FILTERS

SEARCH

MORE

Use advanced search:

- Search by table ID in the first text box directly under the Advanced Search heading

Select Geography: Mobile County

The screenshot shows a multi-step selection process for geography. On the left, 'BROWSE FILTERS' includes 'Geography'. The 'GEOGRAPHY' section has 'Show Summary Levels' turned on and 'County' selected. The 'WITHIN (STATE)' section has 'Alabama' selected. The 'ALABAMA' section has 'Show Geographic Components' turned on, and 'Mobile County, Alabama' is selected with a checkmark. A red arrow points to the 'Mobile County, Alabama' option.

- Select Geography

Geography →
County →
Alabama →
**Mobile county,
Alabama**

Select Geography: All Census Tracts in Mobile County, AL

The screenshot shows a multi-step filtering process. On the left, 'Geography' is selected under 'BROWSE FILTERS'. In the 'GEOGRAPHY' panel, 'Tract' is chosen. The 'WITHIN (STATE)' panel shows 'Alabama' selected. The 'WITHIN (COUNTY)' panel shows 'Mobile County, Alabama' selected. The final panel, 'MOBILE COUNTY, ALABAMA', lists various census tracts, with 'All Census Tracts within Mobile County, Alabama' checked. At the bottom, 'Selected Filters' shows 'Mobile County, Alabama' and 'All Census Tracts within Mobile County, Alabama'. A 'SEARCH' button is highlighted in green.

- Select Geography
- Geography → Tract → Alabama → Mobile County, Alabama → **All Census Tracts within Mobile County, Alabama**
- Verify filters and click **Search** in the lower right

View Table Results

- Click Tables in the upper left
- Change the product drop down menu to ACS 5-Year estimates to get data for census tracts
- Find an estimate that you would like to map

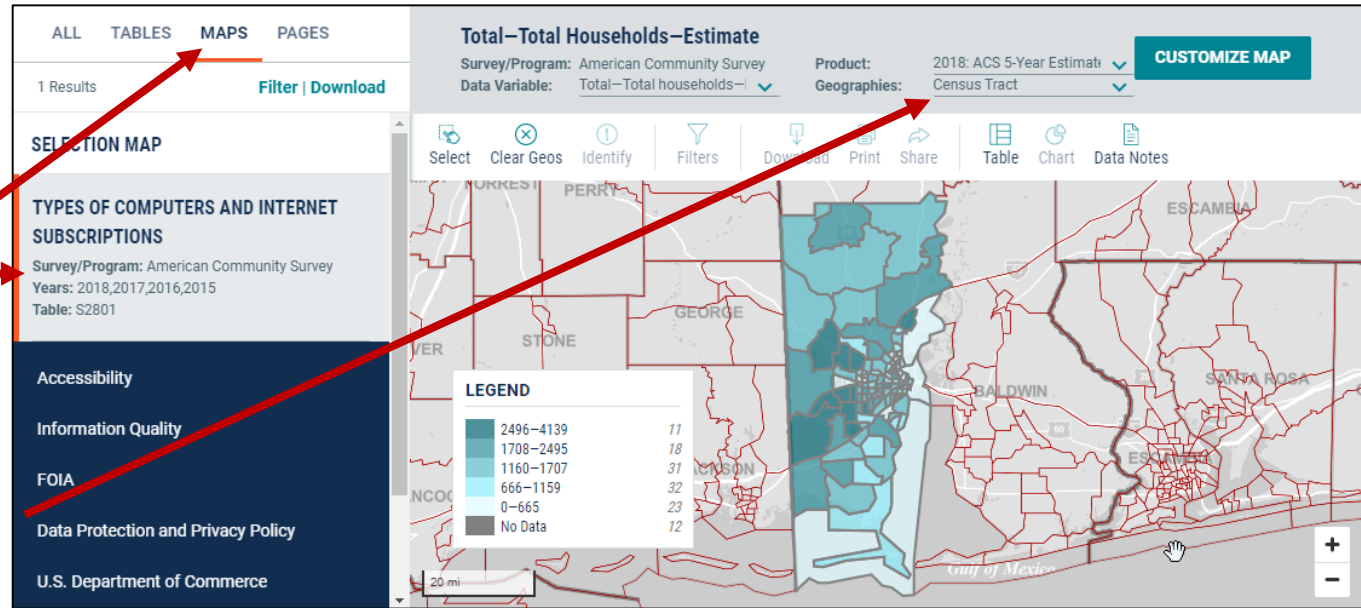
The screenshot shows the Census Bureau website interface. The top navigation bar includes 'ALL', 'TABLES', 'MAPS', and 'PAGES'. The 'TABLES' tab is selected. Below the navigation, there is a search bar and a title 'TYPES OF COMPUTERS AND INTERNET SUBSCRIPTIONS'. The product is set to '2018: ACS 5-Year Estimates Subject Tables'. The table displays data for 'Census Tract 2, Mobile County, Alabama'. The table has columns for 'Estimate', 'Margin of Error', and 'Percent'. The row for 'Without an Internet subscription' is highlighted with a red box, showing an estimate of 322 and a percent of 42.5%.

TYPES OF COMPUTERS AND INTERNET SUBSCRIPTIONS	Total		Percent
	Estimate	Margin of Error	Estimate
No computer	230	+/-62	30.4%
▼ TYPE OF INTERNET SUBSCRIPTIONS			
▼ With an Internet subscription:	435	+/-82	57.5%
Dial-up with no other type of Internet s...	0	+/-12	0.0%
▼ Broadband of any type	435	+/-82	57.5%
▼ Cellular data plan	316	+/-79	41.7%
Cellular data plan with no other ty...	81	+/-58	10.7%
Broadband such as cable, fiber optic...	332	+/-69	43.9%
Satellite Internet service	6	+/-10	0.8%
Without an Internet subscription	322	+/-76	42.5%
▼ HOUSEHOLD INCOME IN THE PAST 12 ...			

Navigate to Map

Navigate to the map tab

- Click Maps from the table results page
- Click your table of interest
- Verify the map is set to the census tract level, and that it is zoomed to census tracts in the Mobile County. You may need to manually zoom and scroll to the selected tracts.



Select Your Variable

// Search / Map / S2801

Total-Total Households-Estimate

Survey/Program: American Community Survey
Data Variable: Total-Total households- |
Product: 2018: ACS 5-Year Estimatr
Geographies: Census Tract

CUSTOMIZE MAP

Total-Total Households-Estimate

Survey/Program: American Community Survey
Product: 2018: ACS 5-Year Estimates S
Data Variable: |
Geographies:

Legend

2496	Percent-TYPE OF INTERNET SUBSCRIPTIONS-With an Internet subscription-Broadband of any type-Estimate
1708	Percent-TYPE OF INTERNET SUBSCRIPTIONS-With an Internet subscription-Broadband of any type-Cellular data plan-Estimate
1160	Percent-TYPE OF INTERNET SUBSCRIPTIONS-With an Internet subscription-Broadband of any type-Cellular data plan-Cellular data
666-1	Percent-TYPE OF INTERNET SUBSCRIPTIONS-With an Internet subscription-Broadband of any type-Broadband such as cable, fiber o
0-665	Percent-TYPE OF INTERNET SUBSCRIPTIONS-With an Internet subscription-Broadband of any type-Satellite Internet service-Estima
No Data	Percent-TYPE OF INTERNET SUBSCRIPTIONS-Without an Internet subscription-Estimate
	Percent-TYPE OF INTERNET SUBSCRIPTIONS-Less than \$20,000-Estimate
	Percent-TYPE OF INTERNET SUBSCRIPTIONS-Less than \$20,000-With dial-up Internet subscription alone-Estimate
	Percent-TYPE OF INTERNET SUBSCRIPTIONS-Less than \$20,000-With a broadband Internet subscription-Estimate
	Percent-TYPE OF INTERNET SUBSCRIPTIONS-Less than \$20,000-Without an Internet subscription-Estimate
	Percent-TYPE OF INTERNET SUBSCRIPTIONS-\$20,000 to \$74,999-Estimate
	Percent-TYPE OF INTERNET SUBSCRIPTIONS-\$20,000 to \$74,999-With dial-up Internet subscription alone-Estimate

*Italicized number
number of geography areas in each
data class.*

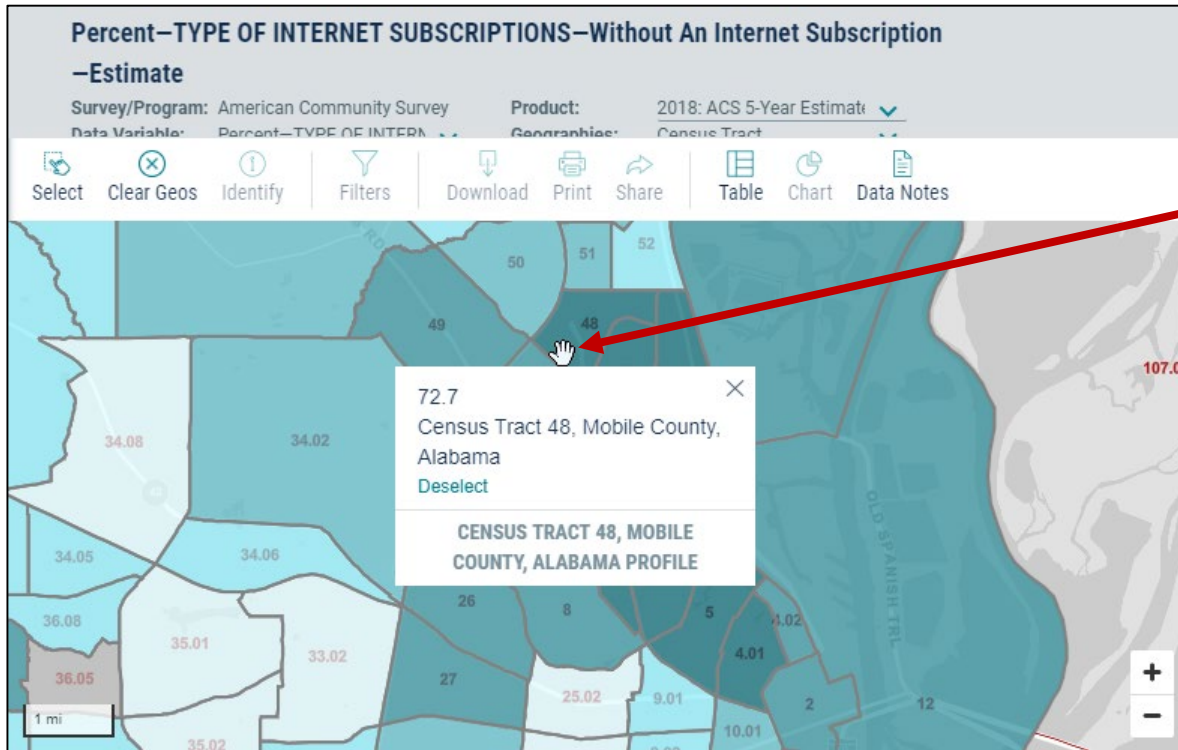
20 mi

Gulf of Mexico

From the Map View

- Click **Customize Map**
- Select the **Data Variable dropdown menu** and keep scrolling to the bottom until you've loaded the full list
- Find and click the variable that says **Percent-TYPE OF INTERNET SUBSCRIPTIONS-Without an Internet Subscription-Estimate**

View Map



- Click on the census tracts with the darkest shade of blue to see which census tracts have the highest percentage of households without an Internet subscription

Compare Your Variable Across Geographies

- Click View Table in the left navigation panel
- View table with all of your geographies. Click the column header for your variable to sort the data in ascending or descending order

The screenshot displays the U.S. Census Bureau data tool interface. On the left, a navigation panel shows the 'Subscription—Estimate' variable selected. A red arrow points from the 'VIEW TABLE' button in this panel to the 'TYPE OF INTERNET SUBSCRIPTIONS—Without a...' column header in the main table. The main table is titled 'Map Table' and contains the following data:

Geography	TYPE OF INTERNET SUBSCRIPTIONS—Without a...
Census Tract 48, Mobile County, Alabama	72.7
Census Tract 15.02, Mobile County, Alabama	69.3
Census Tract 39.02, Mobile County, Alabama	66.9
Census Tract 14, Mobile County, Alabama	65.6

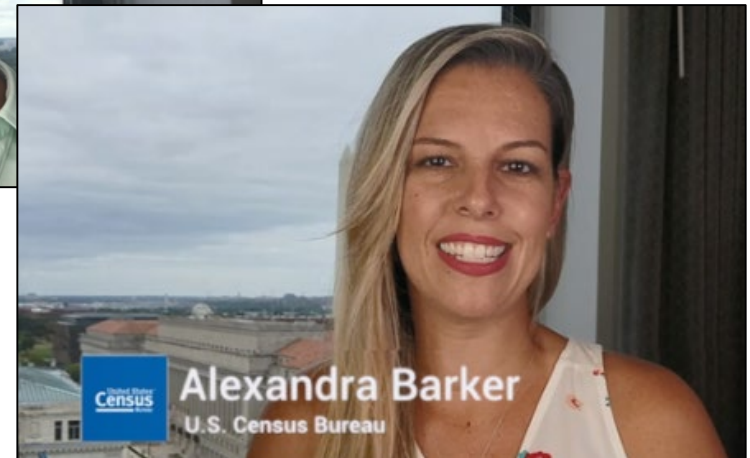
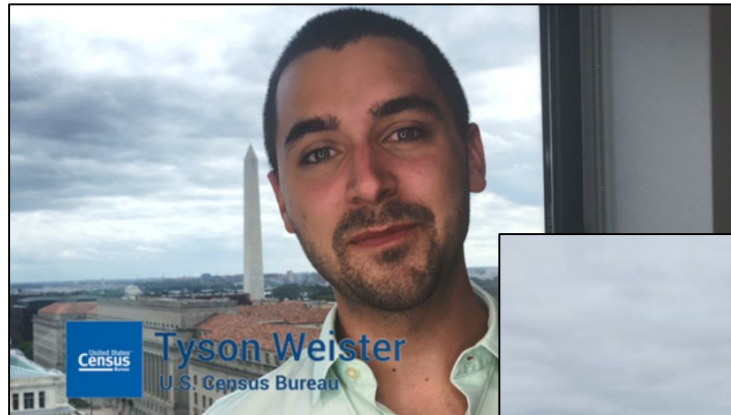
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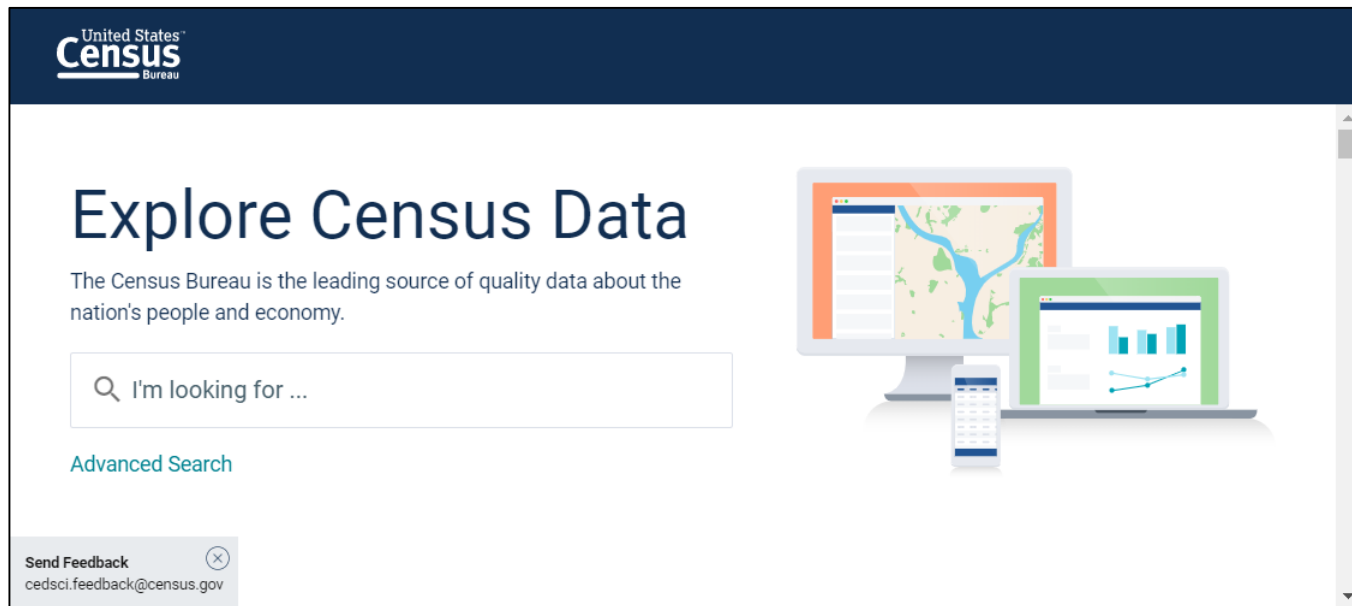
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Measuring Household Experiences during the Coronavirus (COVID-19) Pandemic

New Household Pulse Survey -- Contains data on computer/internet use for educational purposes

Detailed Tables

Education Tables

- Table 1. Time Spent in Last Week on Home Based Education for Households with Children in School, by Select Characteristics [<1.0 MB]
- Table 2. COVID-19 Pandemic Impact on How Children Received Education, by Select Characteristics [<1.0 MB]
- Table 3. Computer and Internet Availability in Households with Children in Public or Private School, by Select Characteristics [<1.0 MB]
- Table 4. Provider of Computer and Internet Services for Households with Children in Public or Private School, by Select Characteristics [<1.0 MB]

census.gov/householdpulsedata

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Tyson Weister
Survey Statistician
Dissemination Outreach Branch
Center for Enterprise Dissemination
U.S. Census Bureau

Utilizing Federal Data to Measure the Digital Divide

Thank you, Tyson!

27% of Households in Mobile County AL have no Internet Subscription

72.9% HH have an Internet subscription

55.3% HH have wireline Internet

12.6% HH rely solely on cellular data plan

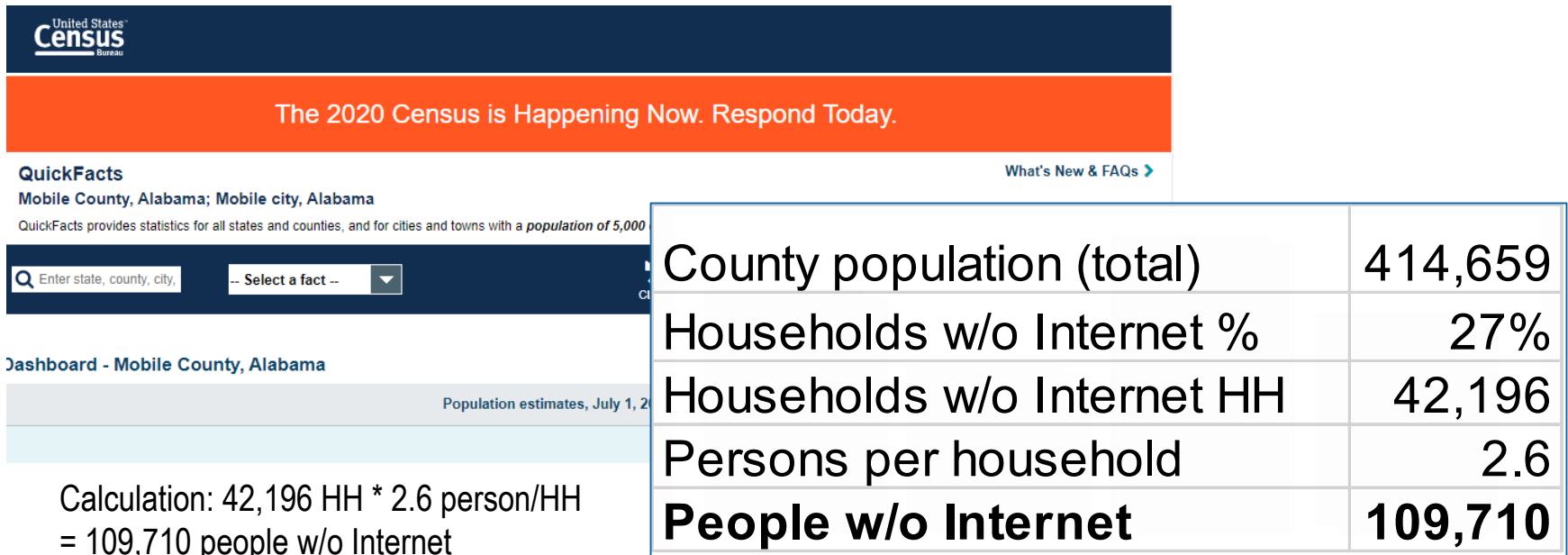
27.0% HH have no Internet subscription

**Map of tracts with no Internet access
courtesy of I3 Connectivity Explorer.
Range of the divides: 2.9% - 66.5%*



<https://i3connect.org/acs/subscriptions/map>

Census QuickFacts are available at www.census.gov/quickfacts More than 100,000 Mobile County Residents have no Internet Subscription



United States Census Bureau

The 2020 Census is Happening Now. Respond Today.

QuickFacts What's New & FAQs >

Mobile County, Alabama; Mobile city, Alabama

QuickFacts provides statistics for all states and counties, and for cities and towns with a *population of 5,000*

Search: Enter state, county, city, | Select a fact --

Dashboard - Mobile County, Alabama

Population estimates, July 1, 2019

County population (total)	414,659
Households w/o Internet %	27%
Households w/o Internet HH	42,196
Persons per household	2.6
People w/o Internet	109,710

Calculation: 42,196 HH * 2.6 person/HH
= 109,710 people w/o Internet

<https://www.census.gov/quickfacts/fact/dashboard/>

Turning Data into Action

- Now that you've identified communities in need
 - Assemble a team
 - Define your community goals
 - Determine barriers to broadband adoption and usage
 - Assess local programs and resources
 - Engage stakeholders and identify potential partnerships
 - Develop a plan

[BroadbandUSA: Planning a Community Broadband Roadmap](#)

Utilizing Federal Data to Measure the Digital Divide

Questions and Comments

- Please type your questions in the Q&A box.
- The slides, transcript, and a recording will be posted on the BroadbandUSA website within 7 days of the webinar.

<https://broadbandusa.ntia.doc.gov/past-event>

Broadband USA

Thank you for attending.

Tune in for the next Practical Conversations Webinar

Cyberinfrastructure: Moving Beyond Broadband at HBCUs and TCUs

July 15, 2020

2:00 pm EST

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BBUSA Resources

- [Implementing a Broadband Network Vision: A Toolkit for Local and Tribal Governments](#)
- [Community Broadband Roadmap Toolkit](#)
- [Guide to Federal Funding of Broadband Projects](#)
- [Using Partnerships to Power Smart Cities](#)