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GEORGIA**
Carl Vinson
Institute of Government

Using Data and Planning to Navigate the Pandemic

June 19, 2019

Max Minutes

Greg Wilson and David Tanner

PROMOTING EXCELLENCE IN GOVERNMENT

Presenting Today



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AGENDA

1. Access to Unemployment Insurance Claims and Sales Tax Data
2. Demonstration of Apps on Georgiadata.org
3. Reviewing Planning Frameworks to Help Workforce Organizations Navigate the Pandemic



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Sli.Do Polling Questions



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Real-Time Data to Inform Navigating the Pandemic



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Data to Inform Pandemic Planning

Challenge: Most labor and economic data is either severely lagged or timely data not available at a county level

Solution: Adopt more-real time indicators (sales tax distributions and unemployment insurance claims to help frame economic planning conversations

Application: While these data are not perfect or comprehensive, they can be useful when combined with other quantitative and qualitative sources.



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Analyzing Sales Tax Data

Sales Tax Distributions

- Distributions are lagged by a month (May Distributions reflect April collections)
- Distribution data is a proxy for economic activity and consumer confidence
- Compare the overall trends and year-over-year change

Commodity Data

- Commodity data are lagged by a month (May distributions reflect April collections)
- The commodity data can help to understand how COVID-19 is impacting various sectors and what sectors may be recovering.
- It is helpful to compare the overall trend and the year-over-year trend for each commodity group. It may also be used to target assistance and outreach efforts.



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Analyzing Initial Unemployment Insurance Claim Data

Another key economic indicator is the number of individuals that are making an initial claim for unemployment. This can give a sense of the number of individuals who have lost their job or seen their hours reduced.

The Georgia Department of Labor is reporting the number initial unemployment insurance claims on a weekly basis and is broken down by 2 digit NAICS codes.

The initial unemployment insurance claim number is a proxy for the economic conditions in the community. It can also give a sense of what is happening in various sectors.



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Making Sense of the Data

Managing and recovering from the economic impact of COVID-19 will require government leaders to triangulate a number of data sources. During these uncertain times, there is not one “go to” data source for decision making.

Near Real-Time Data (e.g.,
Sales Tax, UI Initial Claims,
local unemployment rate)

Traditional Data (lagged
economic, labor market,
and financial data)

Employer & Economic
Development
Engagement



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Demonstration of GeorgiaData.org Applications

- Sales Tax Distributions
- Unemployment Claims
- Demographic Data and other resources



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The screenshot shows the GeorgiaDATA website interface. A red arrow points to the 'Topics' menu item in the navigation bar. A callout box contains the following text: 'Access the data visualizations of Sales Tax distributions data and UI Claims data by going to **Georgiadata.org** and click on **Topics** – **Covid-19 Economic data**'. The website header includes the GeorgiaDATA logo and the Carl Vinson Institute of Government logo. The 'Topics' dropdown menu lists various categories including Covid-19 Economic Data, Agriculture, Courts and Crime, Economics, Education, Health, Labor, Population, Public Assistance, and Vital Statistics. The main content area features a 'Covid-19 Economic' section with links to 'Sales Tax Distributions By Jurisdiction', 'Sales Tax Distributions Monthly Snapshots', 'Sales Tax Distributions Over Time', 'UI Claims By Industry', 'UI Claims Weekly Snapshot', 'UI Claims Over Time', and 'Commuting'.

Sales Distribution by Jurisdiction

The bar chart displays monthly distribution data for 2019. The y-axis represents '2019 Distributions' in millions of dollars, ranging from 0 to 800M. The x-axis shows the months of January, February, March, and April. For each month, there are two bars: a blue bar and a red bar. The blue bars generally show higher distribution values than the red bars, with a notable dip in March for both.

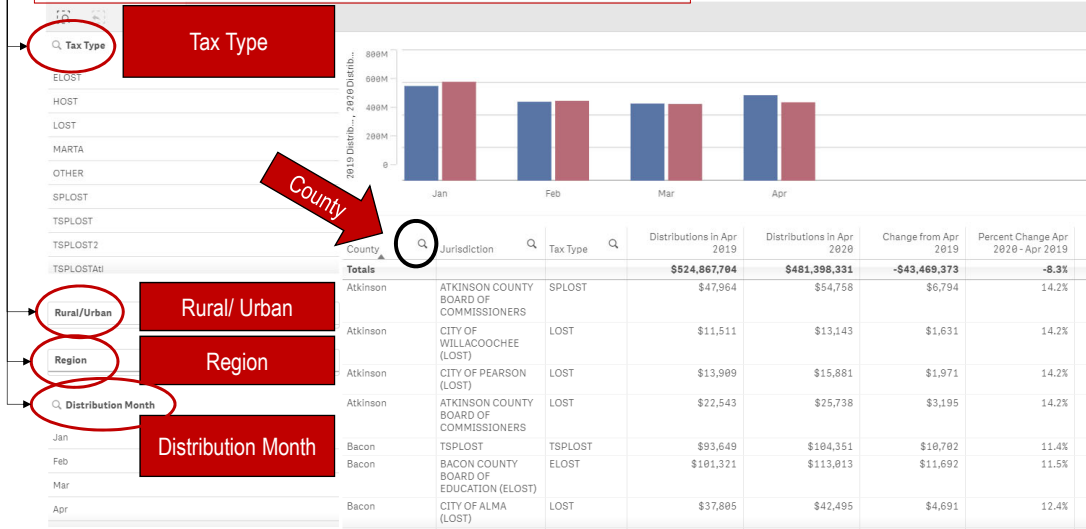
This app shows the monthly distribution data for all tax jurisdictions in the state

County	Jurisdiction	Tax Type	Distributions in Apr 2019	Distributions in Apr 2020	Change from Apr 2019	Percent Change Apr 2020 - Apr 2019
Totals			\$524,867,704	\$481,398,331	-\$43,469,373	-8.3%
Atkinson	ATKINSON COUNTY BOARD OF COMMISSIONERS	SPLOST	\$47,964	\$54,758	\$6,794	14.2%
Atkinson	CITY OF WILLACOOCHEE (LOST)	LOST	\$11,511	\$13,143	\$1,631	14.2%
Atkinson	CITY OF PEARSON (LOST)	LOST	\$13,909	\$15,881	\$1,971	14.2%
Atkinson	ATKINSON COUNTY BOARD OF COMMISSIONERS	LOST	\$22,543	\$25,738	\$3,195	14.2%
Bacon	TSPLOST	TSPLOST	\$93,649	\$104,351	\$10,702	11.4%
Bacon	BACON COUNTY BOARD OF EDUCATION (ELOST)	ELOST	\$181,321	\$113,013	-\$68,308	-37.7%
Bacon	CITY OF ALMA (LOST)	LOST	\$37,805	\$42,495	\$4,691	12.4%

Source: Georgia Department of Revenue, Georgia Tax Center, "Sales Tax Distribution Search", Accessed May 13, 2020, https://gtc.dor.ga.gov/_/#1

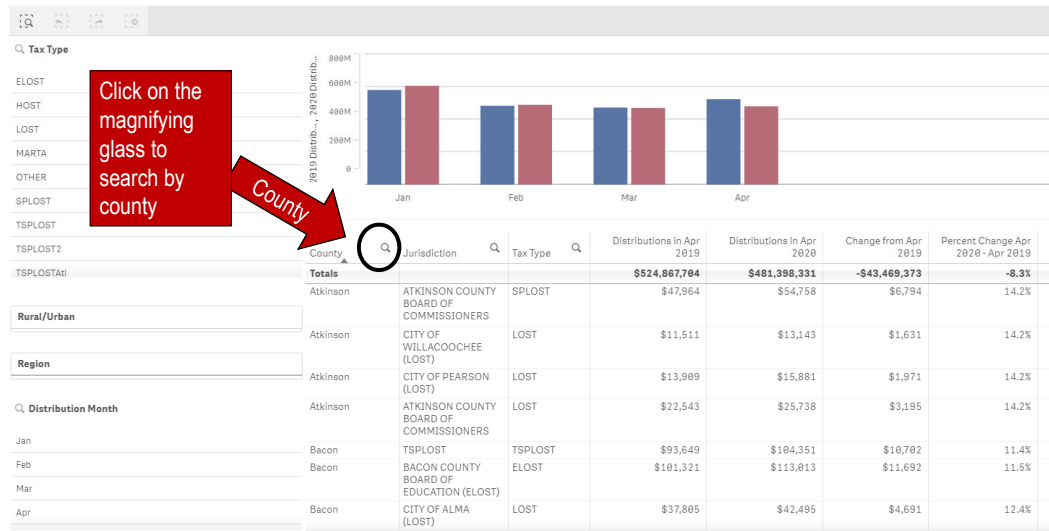
Sales Distribution by Jurisdiction

Each data area on the screen can be used as a filter



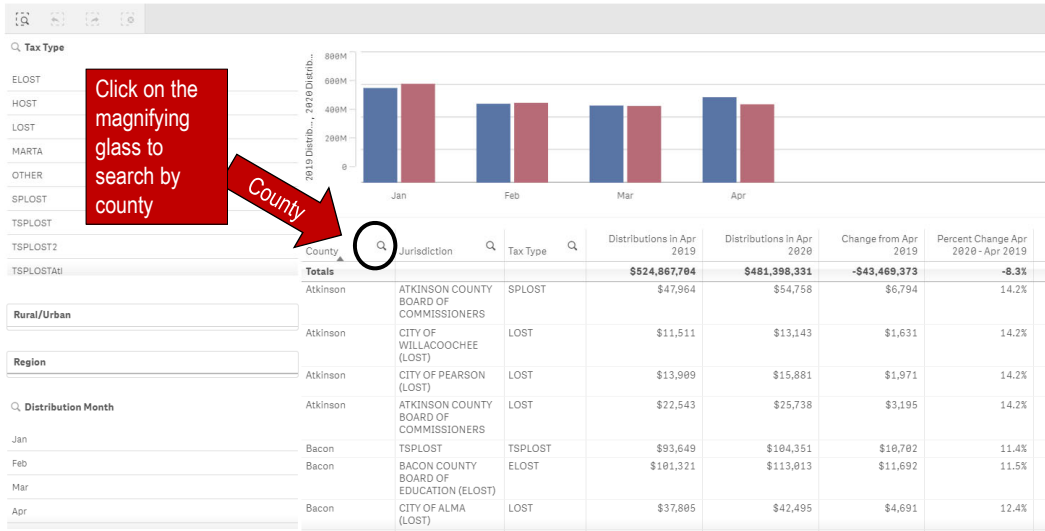
Source: Georgia Department of Revenue, Georgia Tax Center, "Sales Tax Distribution Search", Accessed May 13, 2020, https://gtc.dor.ga.gov/_/#1

Sales Distribution by Jurisdiction

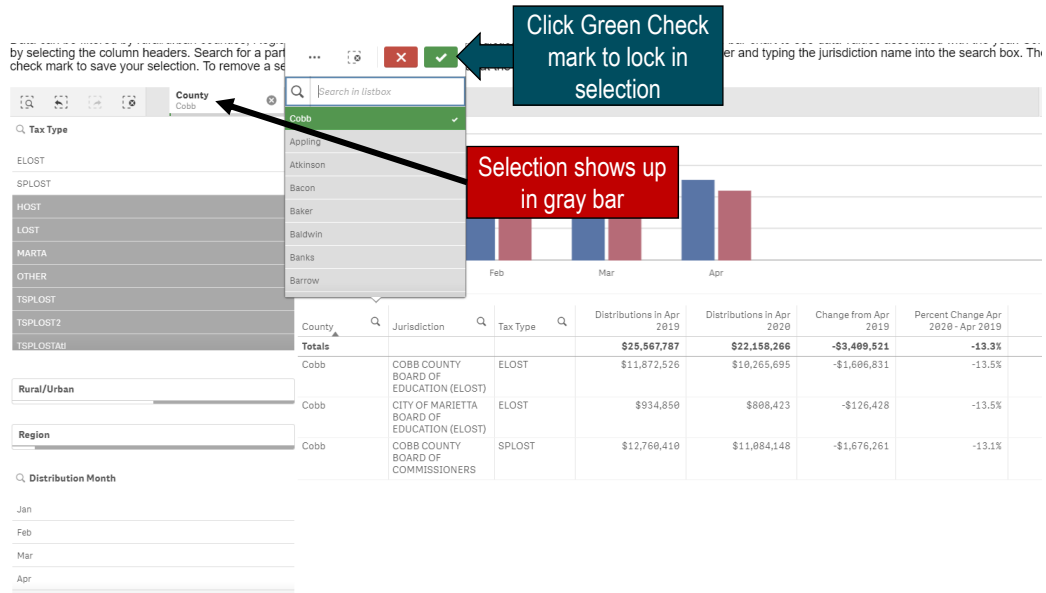


Source: Georgia Department of Revenue, Georgia Tax Center, "Sales Tax Distribution Search", Accessed May 13, 2020, https://gtc.dor.ga.gov/_/#1

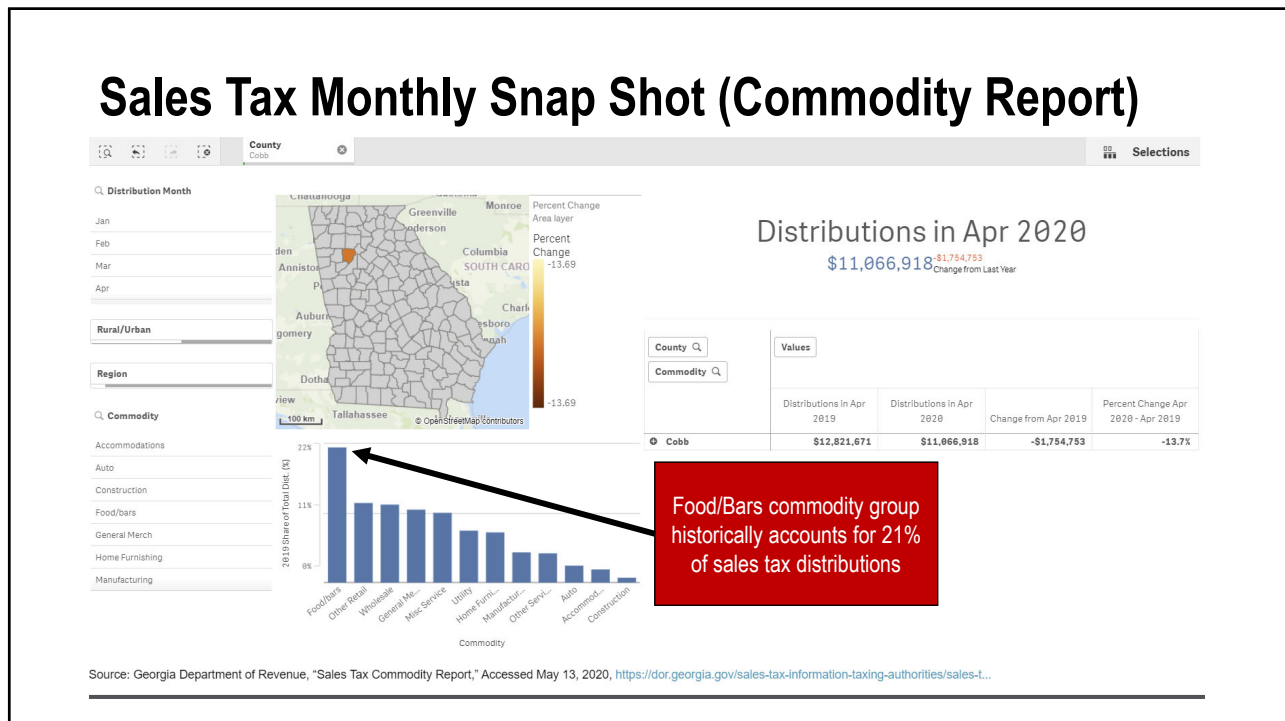
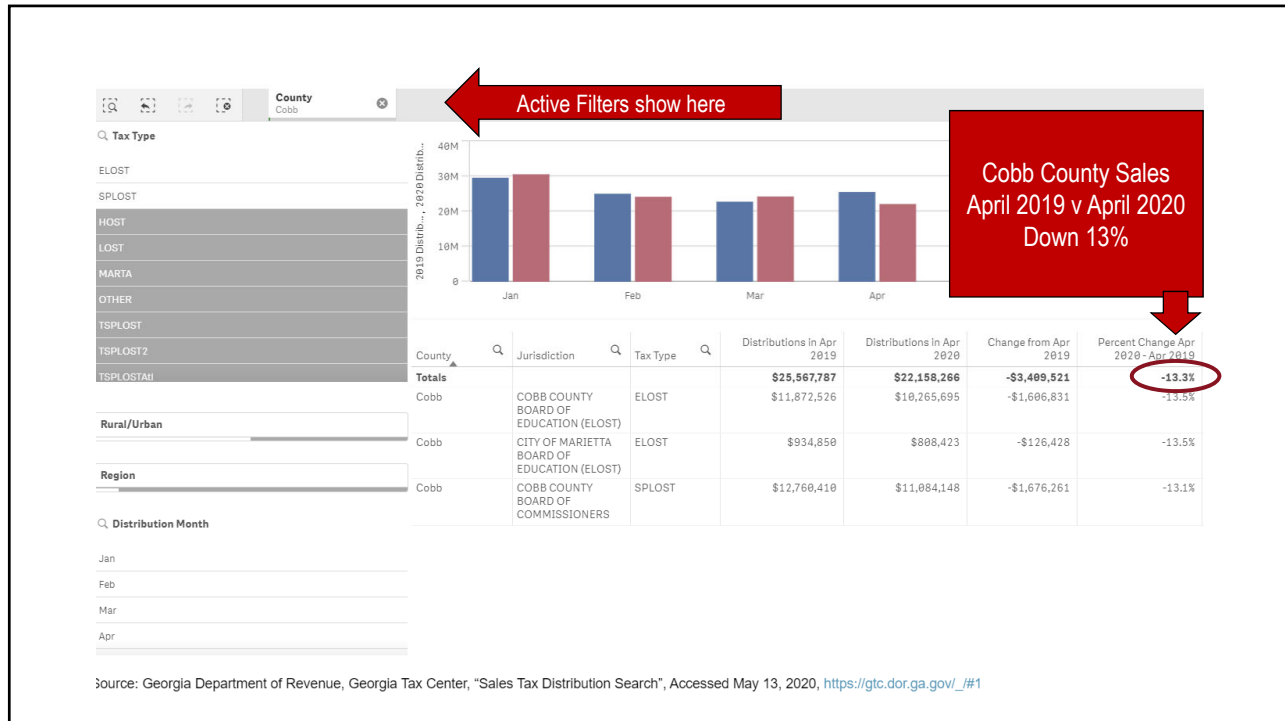
Sales Distribution by Jurisdiction



Source: Georgia Department of Revenue, Georgia Tax Center, "Sales Tax Distribution Search", Accessed May 13, 2020, https://gtc.dor.ga.gov/_/#1



Source: Georgia Department of Revenue, Georgia Tax Center, "Sales Tax Distribution Search", Accessed May 13, 2020, https://gtc.dor.ga.gov/_/#1



Distributions in Apr 2020
 \$11,066,918 ^{-\$1,754,753}
 Change from Last Year

County	Distributions in Apr 2019	Distributions in Apr 2020	Change from Apr 2019	Percent Change Apr 2020 - Apr 2019
Cobb	\$12,821,671	\$11,066,918	-\$1,754,753	-13.7%

Click on the + to see the detail by commodity group

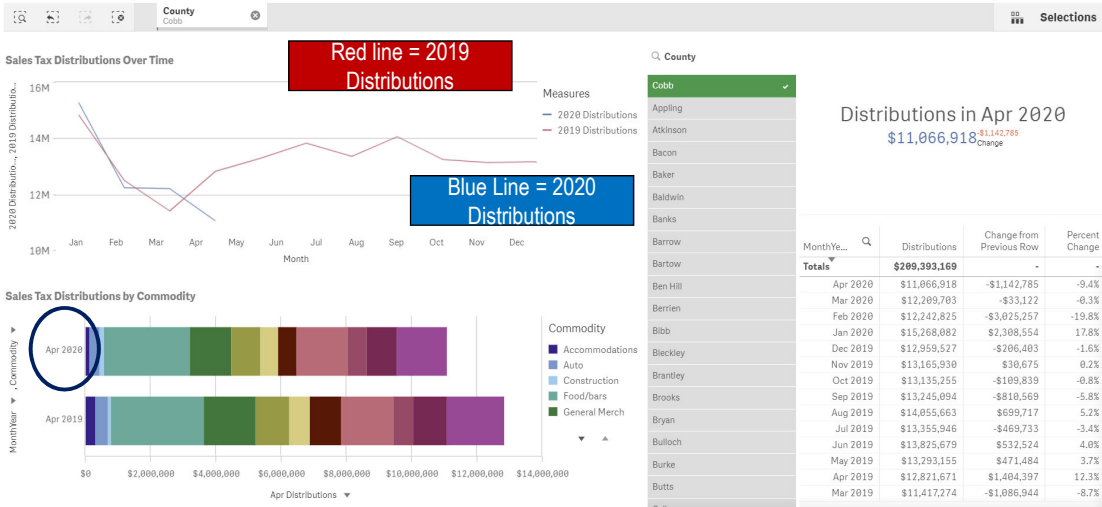
Source: Georgia Department of Revenue, "Sales Tax Commodity Report," Accessed May 13, 2020, <https://dor.georgia.gov/sales-tax-information-taxing-authorities/sales-t...>

Distributions in Apr 2020
 \$11,066,918 ^{-\$1,754,753}
 Change from Last Year

Commodity	Cobb			
	Distributions in Apr 2019	Distributions in Apr 2020	Change from Apr 2019	Percent Change Apr 2020 - Apr 2019
Accommodations	\$292,083	\$100,304	-\$191,779	-62.6%
Auto	\$391,587	\$308,332	-\$83,255	-21.3%
Construction	\$88,958	\$146,311	\$57,353	64.5%
Food/bars	\$2,848,324	\$2,627,489	-\$220,835	-7.8%
General Merch	\$1,688,794	\$1,269,917	-\$418,877	-24.8%
Home Furnishing	\$1,024,229	\$890,301	-\$133,928	-13.1%
Manufacturing	\$633,327	\$544,798	-\$88,529	-14.0%
Misc Service	\$962,255	\$563,264	-\$398,991	-41.5%
Other Retail	\$1,597,141	\$1,563,970	-\$33,171	-2.1%
Other Services	\$611,843	\$589,098	-\$22,745	-3.7%
Utility	\$1,017,670	\$921,272	-\$96,398	-9.5%

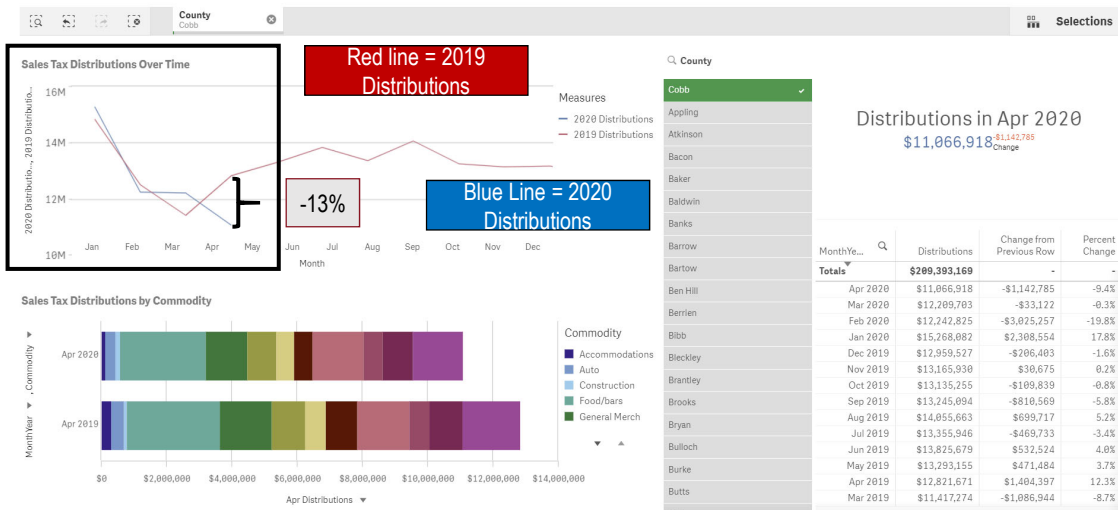
Source: Georgia Department of Revenue, "Sales Tax Commodity Report," Accessed May 13, 2020, <https://dor.georgia.gov/sales-tax-information-taxing-authorities/sales-t...>

Sales Tax Distribution Over Time (Commodity)

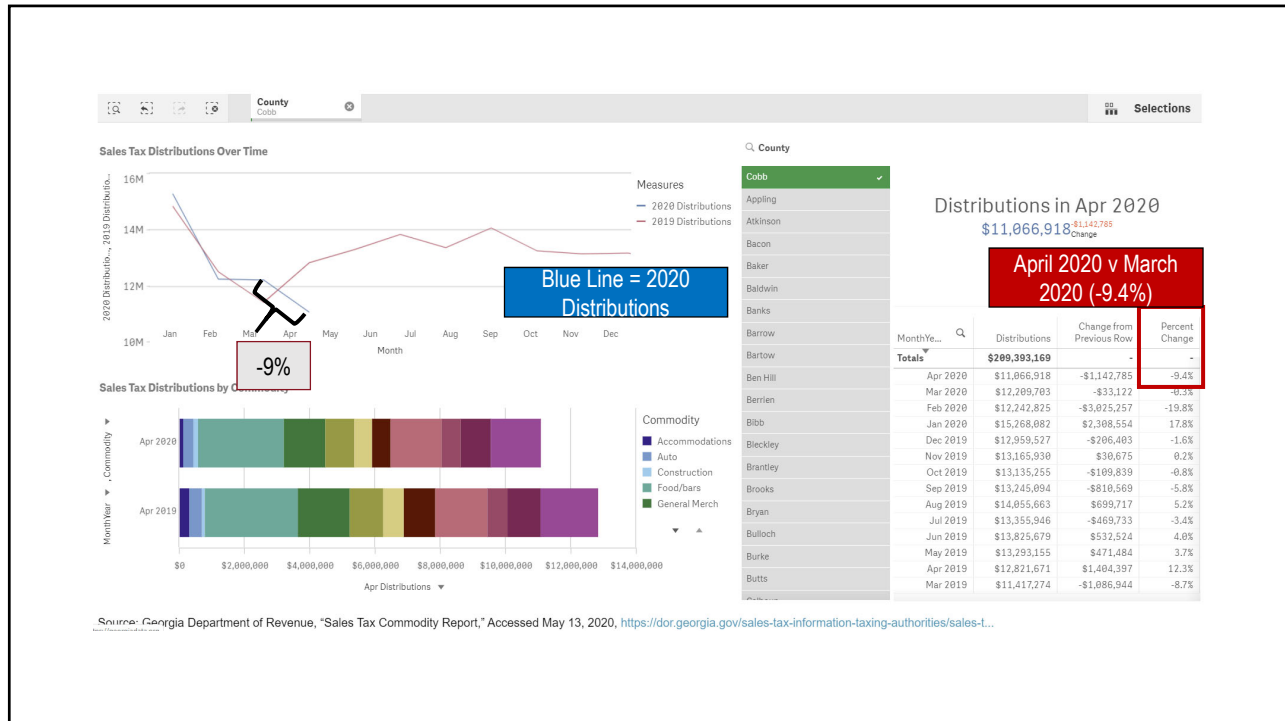


Source: Georgia Department of Revenue, "Sales Tax Commodity Report," Accessed May 13, 2020, <https://dor.georgia.gov/sales-tax-information-taxing-authorities/sales-t...>

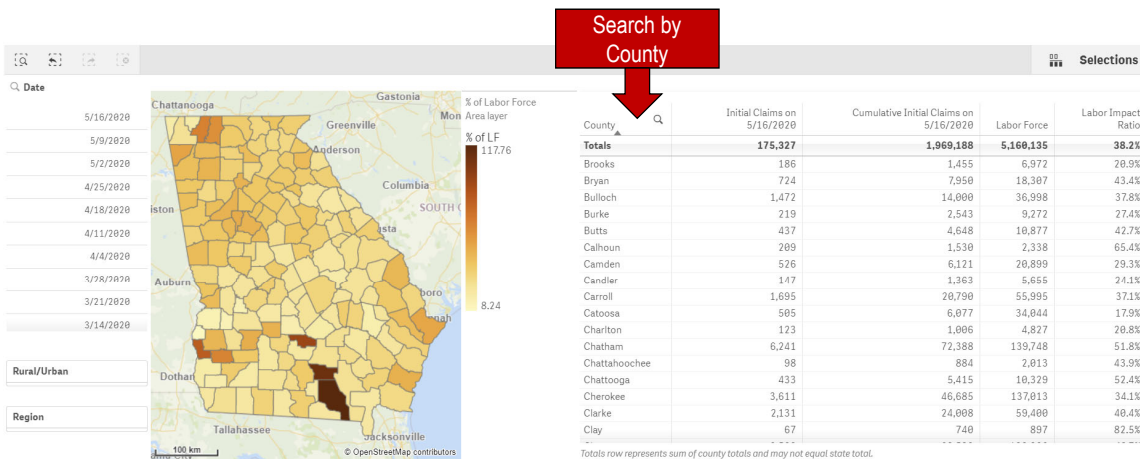
Sales Tax Distribution Over Time (Commodity)

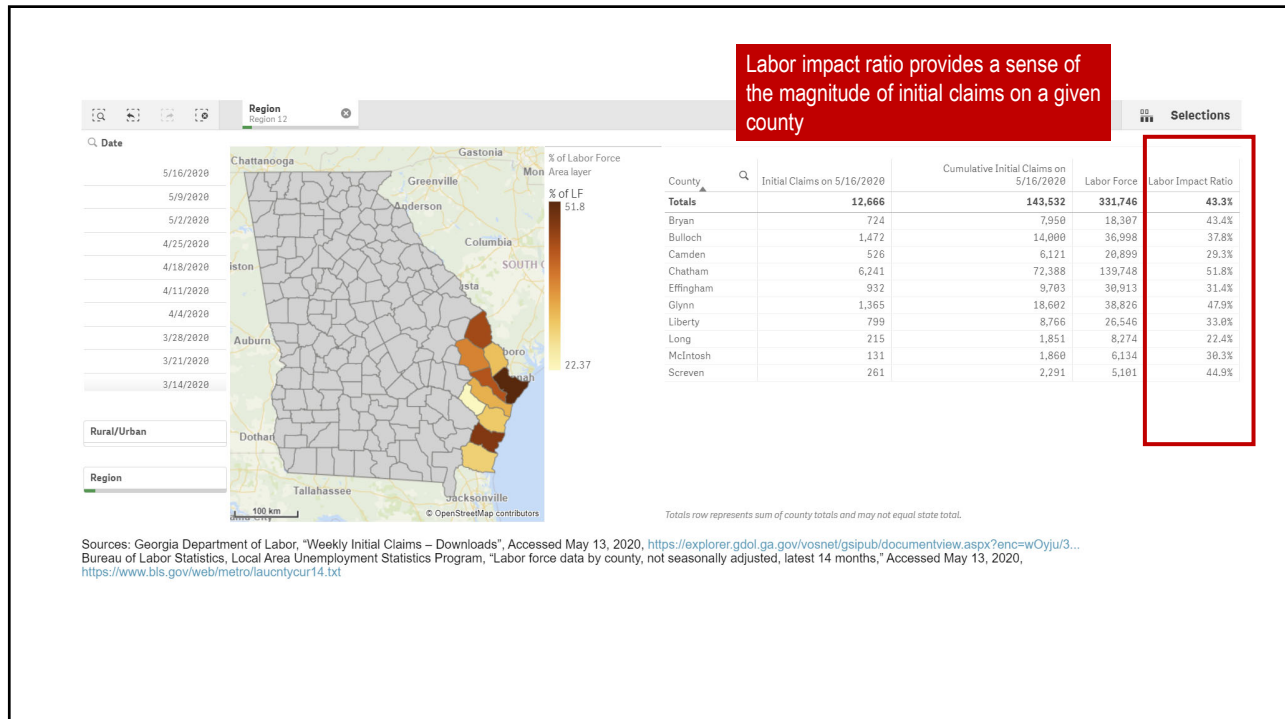
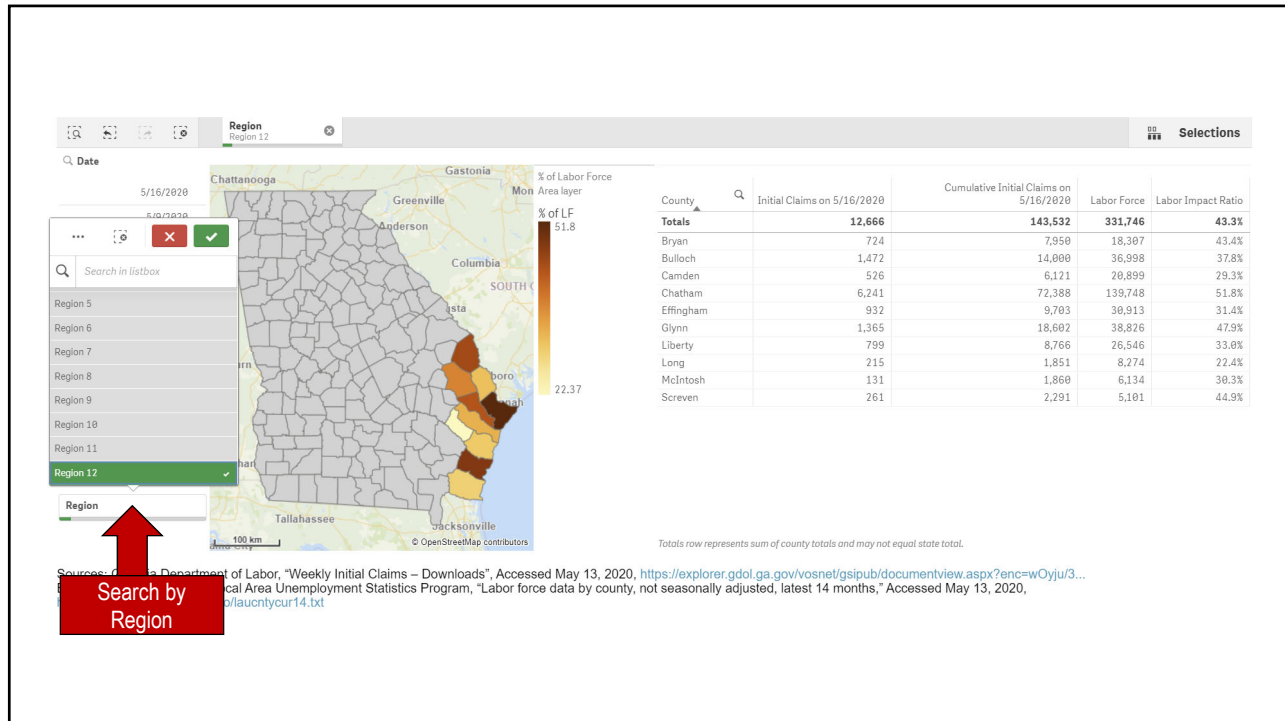


Source: Georgia Department of Revenue, "Sales Tax Commodity Report," Accessed May 13, 2020, <https://dor.georgia.gov/sales-tax-information-taxing-authorities/sales-t...>



Unemployment Insurance Claims Filings





Initial Claims Over Time



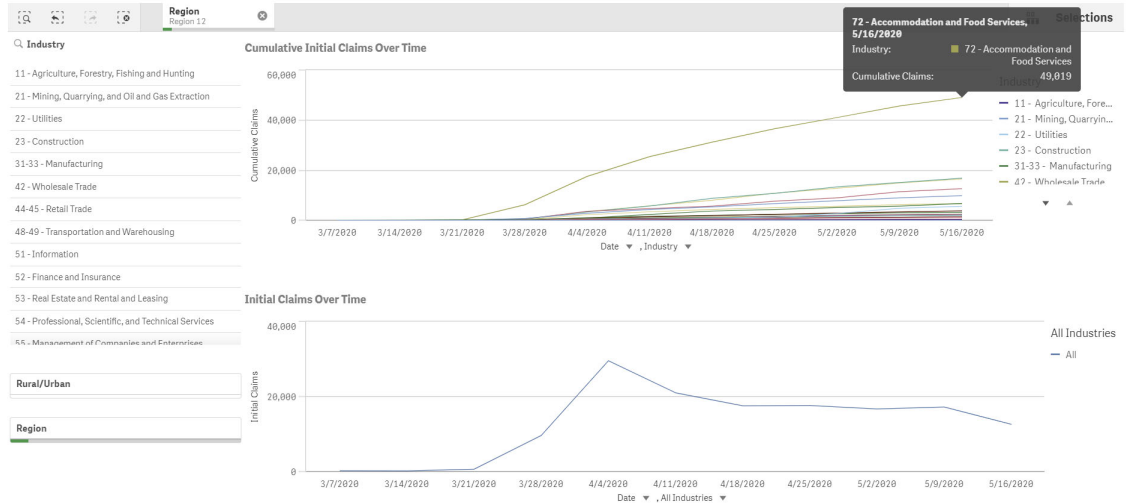
Sources: Georgia Department of Labor, "Weekly Initial Claims – Downloads", Accessed May 13, 2020, <https://explorer.gdol.ga.gov/vosnet/gsipub/documentview.aspx?enc=wOyju/3...>
 Bureau of Labor Statistics, Local Area Unemployment Statistics Program, "Labor force data by county, not seasonally adjusted, latest 14 months," Accessed May 13, 2020, <https://www.bls.gov/web/metro/laucnbcvur14.txt>

Initial UI Claims by Industry

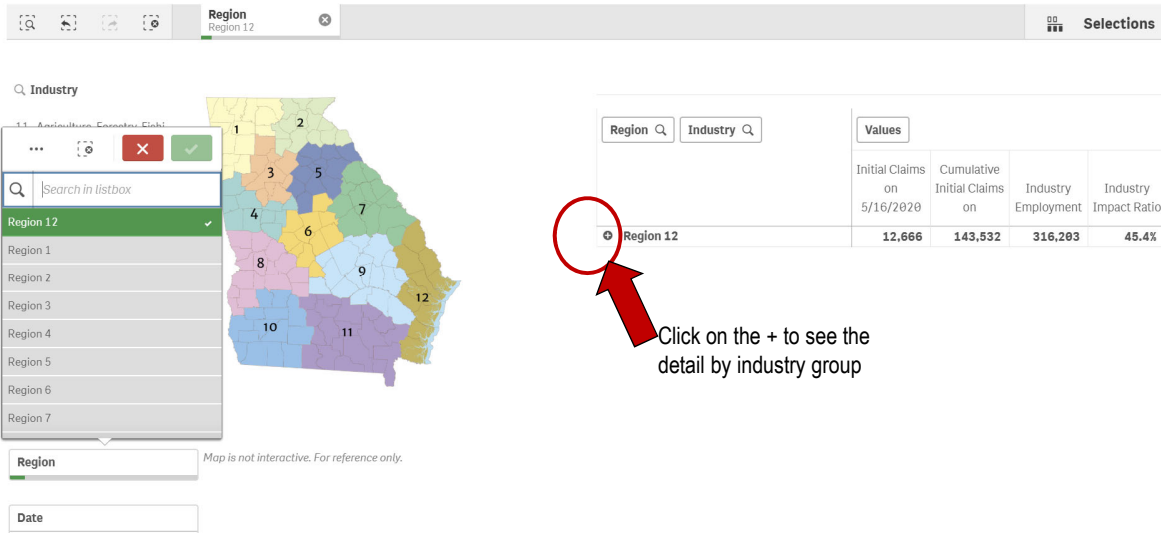


Sources: Georgia Department of Labor, "Weekly Initial Claims – Downloads", Accessed May 13, 2020, <https://explorer.gdol.ga.gov/vosnet/gsipub/documentview.aspx?enc=wOyju/3...>
 Bureau of Labor Statistics, Local Area Unemployment Statistics Program, "Labor force data by county, not seasonally adjusted, latest 14 months," Accessed May 13, 2020, <https://www.bls.gov/web/metro/laucnbcvur14.txt>

Initial Claims Over Time



Initial UI Claims by Industry



Sources: Georgia Department of Labor, "Weekly Initial Claims – Downloads", Accessed May 13, 2020, <https://explorer.gdol.ga.gov/vosnet/gsipub/documentview.aspx?enc=wOyju3...>
 EMSI, Inc.

Initial UI Claims by Industry

Region
Region 12

Industry

- 11 - Agriculture, Forestry, Fishi...
- 21 - Mining, Quarrying, and Oil ...
- 22 - Utilities
- 23 - Construction
- 31-33 - Manufacturing
- 42 - Wholesale Trade
- 44-45 - Retail Trade
- 48-49 - Transportation and Wa...
- 51 - Information

Rural/Urban

Region

Date

Map is not interactive. For reference only.

Industry Impact Ratio provides a sense of the magnitude of initial claims on the various industry groups. Some ratios are greater than 100. This is due to the data containing duplicates and invalid claims. Also the employment by industry is a rough estimate.

Region	Industry	Initial Claims on 5/16/2020	Cumulative Initial Claims on	Industry Employment	Industry Impact Ratio
Region 12		12,666	143,532	316,203	45.4%
	11 - Agriculture, Forestry, Fishing and Hunting	1	20	774	2.6%
	21 - Mining, Quarrying, and Oil and Gas Extraction	0	2	59	3.4%
	22 - Utilities	2	17	929	1.8%
	23 - Construction	152	2,049	11,953	17.1%
	31-33 - Manufacturing	1,103	6,812	26,811	25.4%
	42 - Wholesale Trade	183	2,546	8,323	30.6%
	44-45 - Retail Trade	1,633	16,588	35,095	47.3%
	48-49 - Transportation and Warehousing	419	3,888	17,471	22.3%
	51 - Information	126	1,276	2,889	44.2%
	52 - Finance and Insurance	28	538	6,151	8.7%
	53 - Real Estate and Rental and Leasing	125	1,443	4,132	34.9%
	54 - Professional, Scientific, and Technical Services	185	2,415	8,641	27.9%
	55 - Management of Companies and Enterprises	20	328	1,193	27.5%
	66 - Administrative and Support and				

Sources: Georgia Department of Labor, "Weekly Initial Claims – Downloads", Accessed May 13, 2020, <https://explorer.gdol.ga.gov/vosnet/gsipub/documentview.aspx?enc=wOYju3...>
EMSI, Inc.

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Home About Interactive Data Guide

Welcome to the Interactive Data Guide. This guide presents instructions on how to use the interactive data page. The interactive data page contains information on various kinds of visualizations that can be used to explore the data. For instance, if you were interested in data about Cobb County, you could use the County selector at the top of the page to select Cobb County. You could also search for a county by its name in the search bar at the top of the filter or by selecting Cobb County in one of the visualizations. When you select a filter value, make sure to click the green checkmark to save that filter or click the red X to remove the selection. If you forget which selectors you've made, you can see them in the gray selectors at the top of the filter. If you would like to remove a selection, you can do so by clicking the red X to the left of your selections. You can also clear many selections at the same time by clicking the red X to the left of your selections. If you would like to insert a visualization into a PowerPoint or other presentation, you can use Microsoft's Snipping Tool. After opening the Snipping Tool, select the Snipping Tool, drag the portion of the screen you would like to include in your presentation. Then copy the image and paste it into your presentation. Happy exploring!

Video Guide

A video guide is provided under the "About" Menu. This tutorial will teach you how to navigate the Qlik apps and use the filter functions.

Other data in Georgiadata.org

Additional Data Visualizations - TOPICS

The screenshot shows the GeorgiaDATA website interface. At the top, there is a navigation bar with links for Home, About, Topics, Resources, Financial Data, and Initiatives. The 'Topics' menu is open, displaying a list of categories: COVID-19 Economic Data, Agriculture, Courts and Crime, Economics, Education, Health, Labor, Population, Public Assistance, and Vital Statistics. A red arrow labeled '1' points to the 'Topics' menu. Another red arrow labeled '2' points to the 'Population' item in the menu. On the left side, the 'Population' section is highlighted, with a red arrow labeled '3' pointing to the 'Population Details' link. The website footer includes contact information for the University of Georgia and the Carl Vinson Institute of Government.

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Home About **Topics** Resources Financial Data Initiatives

Population

Welcome to Georgiadata.org's interactive data pages!
The links below contain maps, graphs, tables and other kinds of data. You can use the filters at the top or click anywhere on the visualizations to update the data displayed on the page.

[Population Counts](#)

[Population Details](#)

Public Service & Outreach
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706.542.9301

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<https://georgiadata.org/topics>

Population Details

Click on the toggle button to see a line chart for each age group

Filters → Filter by Year | Filter by Region | Filter by County | Filter by Gender | Filter by Race | Filter by Age

Population for the Most Recent Selected Year | Population Percent Change in Selected Years | Population by Age Cohort | **Age Cohort Population Trends**

Click on counties in the map to narrow your search

County	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005
Appling	18,597	18,521	18,428	18,454	18,549	18,440	18,368	18,429	18,261	18,144	18,133	17,885	17,715	17,709
Atkinson	8,297	8,342	8,273	8,398	8,223	8,299	8,284	8,413	8,366	8,386	8,366	8,346	8,197	8,896
Bacon	11,185	11,319	11,372	11,299	11,581	11,218	11,198	11,283	11,878	11,134	10,987	10,968	10,682	10,552
Baker	3,892	3,298	3,158	3,188	3,255	3,341	3,166	3,885	3,415	3,168	3,728	3,706	3,877	3,267

Population Details

Question: How many grade school age children are in my county?

Home | About | Topics | Resources | Financial Data | Initiatives

These pages contain maps, graphs, tables and other kinds of visualizations related to a topic. You can use the filters at the top or click anywhere on the visualizations to update the data displayed on the page. To request data or provide feedback, email emilfrank@uga.edu.

Filter by Year | Filter by Region | Filter by County | Filter by Gender | Filter by Race | Filter by Age

Population for the Most Recent Selected Year | Population Percent Change in Selected Years | Population by Age Cohort | **Age Cohort Population Trends**

1. Click on the age groups to see lines on the chart for those age groups

2. Click on the Green Check mark to lock in your selection

County	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005
Appling	3,387	3,342	3,295	3,329	3,386	3,351	3,387	3,359	3,395	3,442	3,389	3,377	3,346	3,352
Atkinson	1,567	1,623	1,659	1,655	1,683	1,634	1,715	1,738	1,727	1,768	1,756	1,710	1,655	1,644
Bacon	2,897	2,192	2,163	2,192	2,147	2,119	2,183	2,069	2,091	2,039	1,996	1,990	1,913	1,942
Baker	429	475	486	488	522	547	586	576	588	637	686	782	758	742
Badwin	6,485	6,411	6,562	6,680	6,652	6,711	6,665	6,513	6,569	7,228	7,249	7,287	7,132	7,164

Population Detail

These pages contain maps, graphs, tables and other kinds of visualizations related to a topic. You can use the filters at the top or click anywhere on the visualizations to update the data displayed on the page. To request data or provide feedback, email emilrank@suga.edu.

Filter by Year Filter by Region Filter by County Filter by Gender Filter by Race Filter by Age

Clicked on Hall County

Population by Age Cohort

County	Year	Age	Gender
Hall	2018	2017	2016
Hall	37,668	37,545	37,664

Population Details

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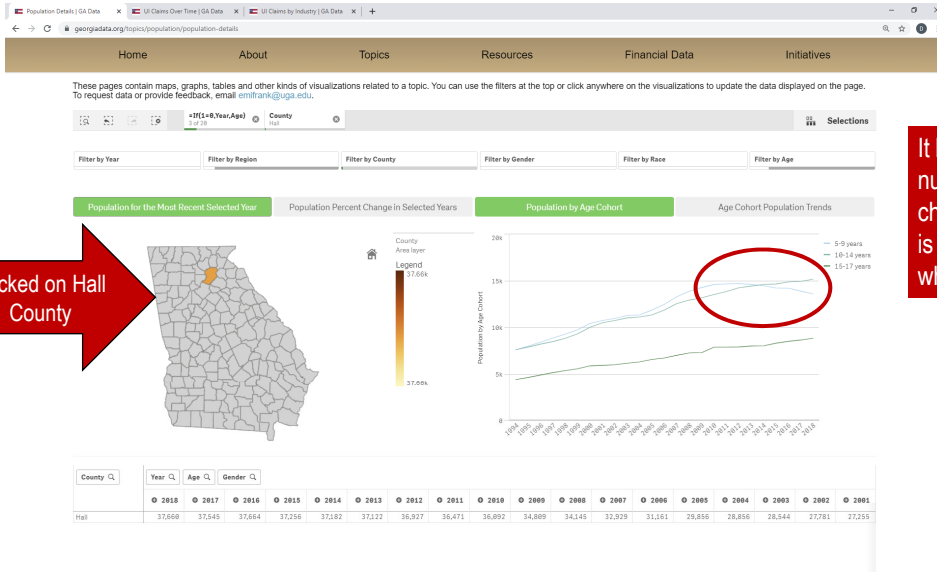
Filter by Year Filter by Region Filter by County Filter by Gender Filter by Race Filter by Age

Population for the Most Recent Selected Year Population Percent Change in Selected Years Population by Age Cohort Age Cohort Population Trends

The visualization is now filtered for Hall County and for the age groups 5-9 years 10-14 years 15-17 years

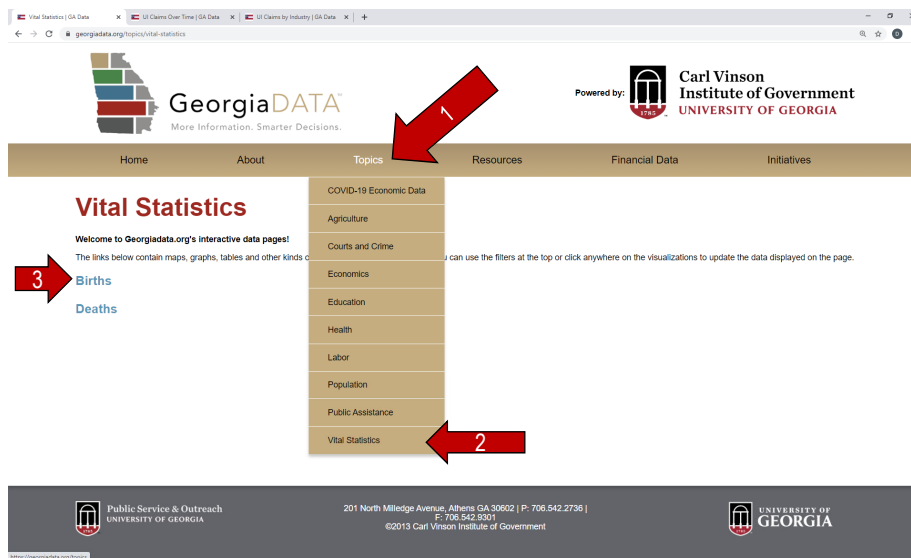
County	Year	Age	Gender
Hall	2018	2017	2016
Hall	37,668	37,545	37,664

Population Details



It looks like the number of children age 5-9 is going down – why?

Vital Statistics: Births



Births

Welcome to Georgiadata.org's interactive data pages!
 These pages contain maps, graphs, tables and other kinds of visualizations related to a topic. You can use the filters at the top or click anywhere on the visualizations to update the data displayed on the page.
 To request data or provide feedback, email emfrank@uga.edu.

Click on counties in the map to narrow your search

Filter Options

The chart shows births per 1,000 women age 14 to 44

Births have been in decline since 2007 in Georgia (it is also a national trend)

County	2018		2017		2016		2015		2014		2013		2012		2011	
	Births	Number of Births Per 1,000 Women	Births	Number of Births Per 1,000 Women	Births	Number of Births Per 1,000 Women	Births	Number of Births Per 1,000 Women	Births	Number of Births Per 1,000 Women	Births	Number of Births Per 1,000 Women	Births	Number of Births Per 1,000 Women	Births	Number of Births Per 1,000 Women
Appling	224	44.6	232	46.3	231	46.0	276	53.3	243	47.4	252	49.5	262	51.8	264	52.4
Ashburn	126	52.7	101	42.9	119	48.5	142	57.6	127	52.5	135	55.1	189	44.8	125	51.5
Bacon	154	48.2	172	53.4	144	44.1	157	48.1	142	43.5	139	42.9	155	47.9	148	45.6

Births

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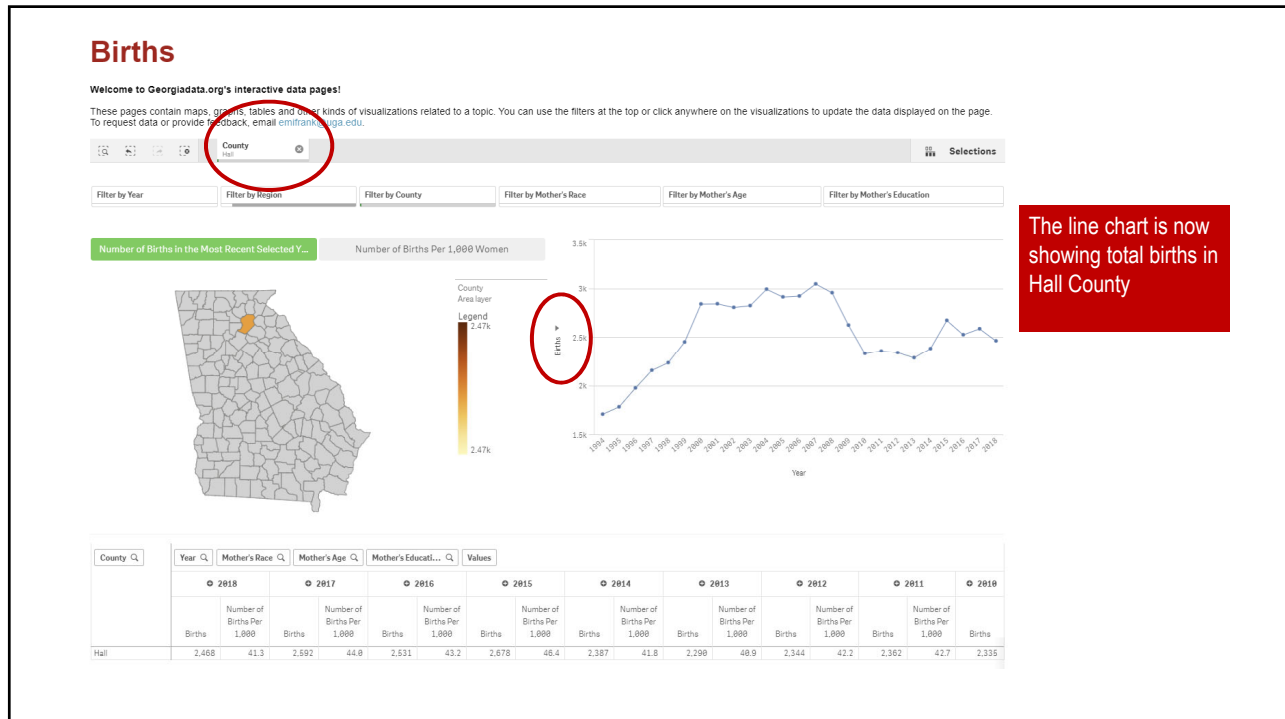
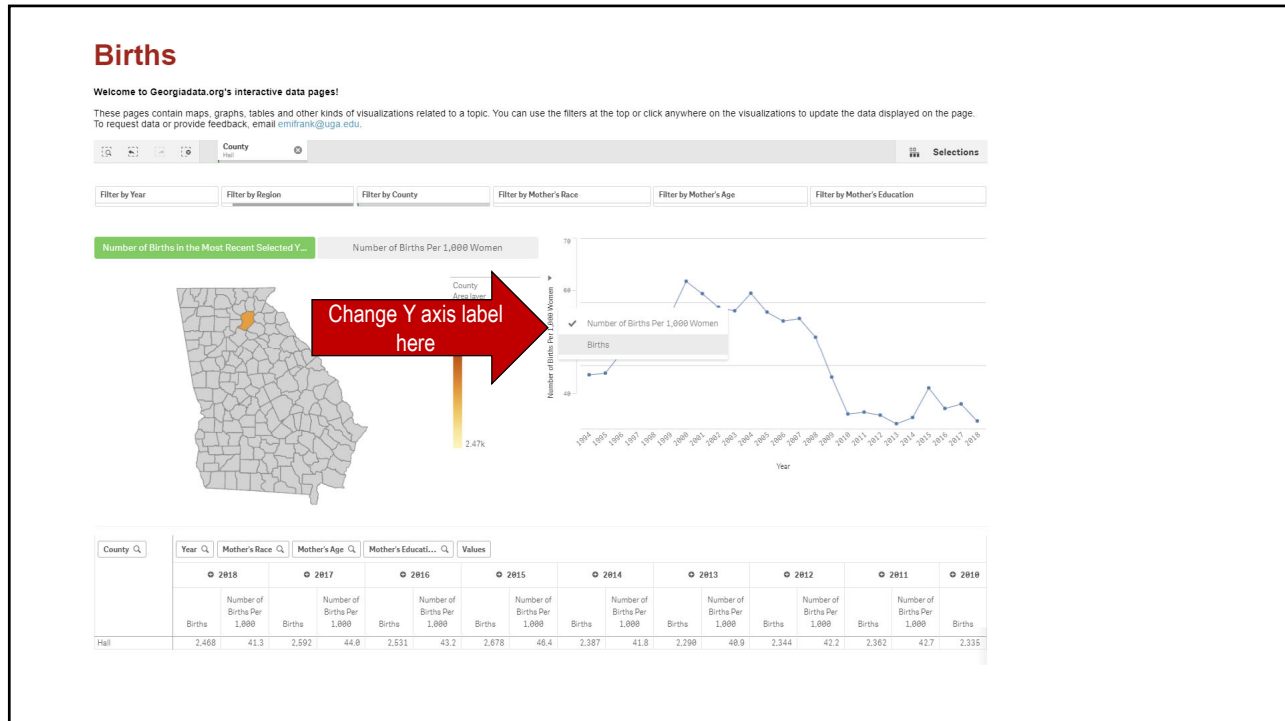
Clicked on Hall County

Filter Options

The chart shows births per 1,000 women age 14 to 44

Births have been in decline since 2007 in Georgia (it is also a national trend)

County	2018		2017		2016		2015		2014		2013		2012		2011		2010	
	Births	Number of Births Per 1,000 Women	Births	Number of Births Per 1,000 Women	Births	Number of Births Per 1,000 Women	Births	Number of Births Per 1,000 Women	Births	Number of Births Per 1,000 Women	Births	Number of Births Per 1,000 Women	Births	Number of Births Per 1,000 Women	Births	Number of Births Per 1,000 Women	Births	Number of Births Per 1,000 Women
Hall	2,468	41.3	2,592	44.0	2,531	43.2	2,678	48.4	2,387	41.8	2,190	40.9	2,344	42.2	2,362	42.7	2,335	41.5



Enhanced access to data visualizations using Qlik

The Institute of Government offers a private and secure server based version of the data apps you have seen. A user license provides enhanced access and usability of the Qlik data visualization software and the apps we have created.

- Download the data to Excel
- Develop custom views of the data
- Import and create visualizations of your own data
- Additional fees may apply if you would like our team to create a visualization for you

If you would like more information about becoming part of the Institute's Qlik user community, please contact: David Tanner, dtanner@uga.edu



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QUESTIONS



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How are you planning? Let's learn on Sli.Do



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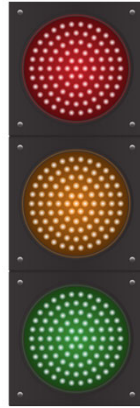
Potential Planning Topics

- Delivering services with social distancing requirements
- Identifying occupations and skills to train participants for
- Upskilling out-of-work individuals in jobs that may no longer exist
- Identifying new or expanded funding sources
- Forging new partnerships with employers and education providers
- Managing budget cuts and/or additional demands for services
- Engaging partners, board members, and funders virtually (especially over the long-term)



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Planning Frameworks: Traffic Light



What should we stop doing?

What should we continue doing?

What should we start doing?



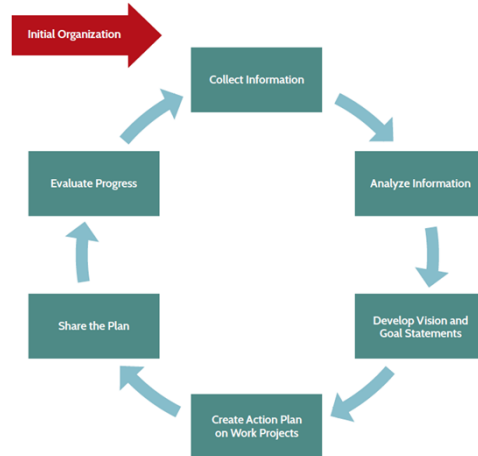
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Planning Framework: ADDIE Model



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Planning Framework: Strategic Planning Cycle



QUESTIONS

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