

## COVID Response: Data Analysis and Tools

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# Tell your story. With data. Easily.

Neighborhood Nexus empowers mission-driven organizations to more easily and confidently ask the right questions, use the best data, tell compelling stories, and make informed decisions.

 **COVID-19**

The current health and economic crisis is unprecedented. We're focused on actionable data and insights to guide your response. [View our COVID-19 resources here.](#)



### OUR PARTNERS

Neighborhood Nexus is supported by four core partners, ensuring our position at the nexus of Georgia's philanthropy, nonprofit, regional planning, government, and business communities.

<https://neighborhoodnexus.org/covid19/>

**COVID-19 Economic Impact Calculator for the Atlanta Metro Region**

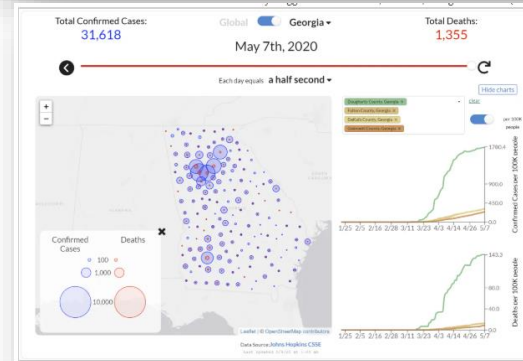
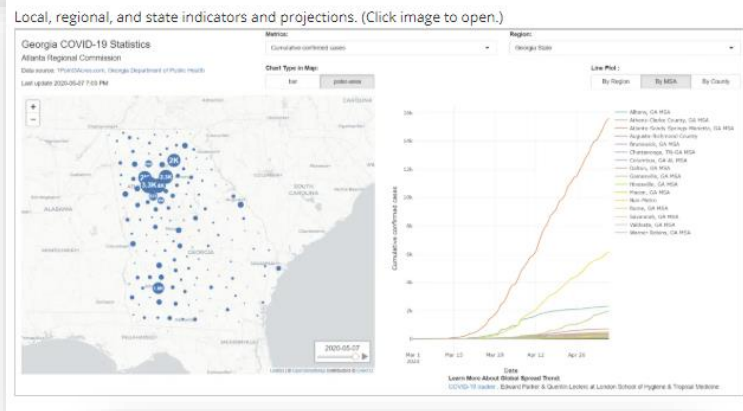
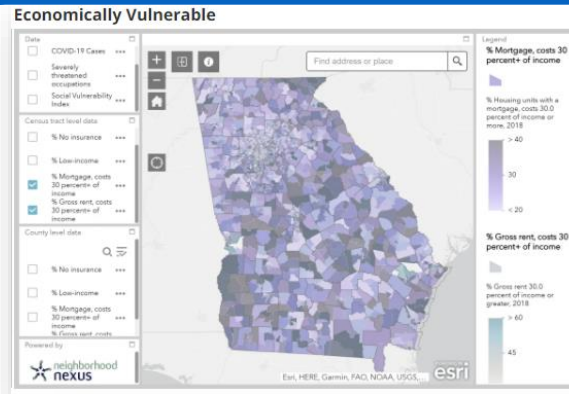
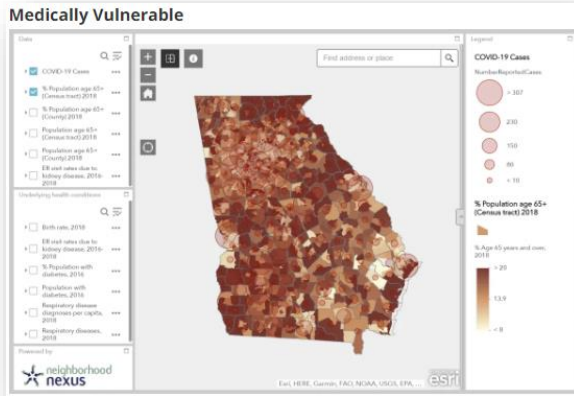
Select an industry

**Employment** Compensation Sales

Direct Indirect Induced Total

\* Atlanta-Sandy Springs-Roswell MSA

Data Source: JobsEQ Labor Insight, 2019Q3



## Evaluating Economic Impact

The following chart illustrates the size and average wages of severely threatened industries in the Atlanta MSA. Employment and wage data are from 2018. These industries' vulnerability status will be based on our analysis and will continue to be updated as we learn more from industry data and conversations with key stakeholders.

### Industries Most Threatened by COVID-19

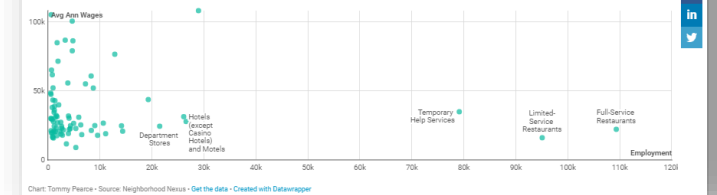
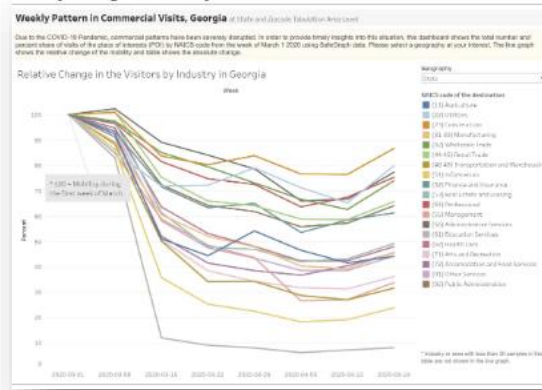
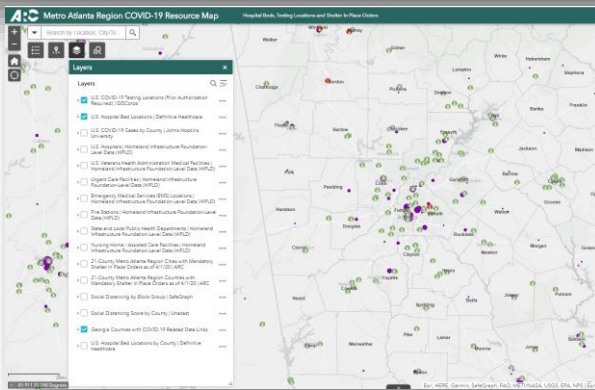
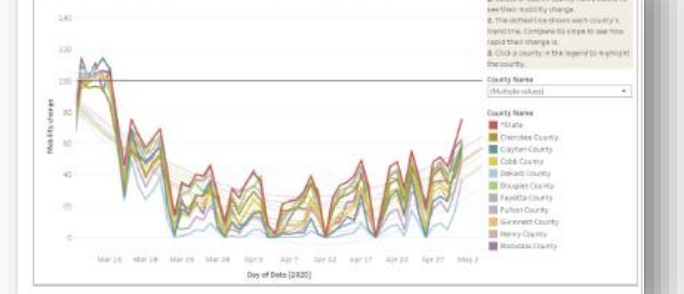


Chart: Tommy Pearce - Source: Neighborhood Nexus - Get the data - Created with Datawrapper



## Mobility Change after COVID-19 Outbreak in Georgia by County



## ARC Training and Information Webinars

NEW

### Webinar: Supporting Local Businesses During COVID-19

**When:** Tuesday, May 26, 2020 at 2:30 PM EDT

COVID-19 is having a devastating impact on small businesses across the country and in the Atlanta Region. Consumer spending in Atlanta, as of the end of April, was down 33.4% coupled with a decrease of small business revenue of 49.4%. This webinar will focus on how local governments and economic development organizations are using a combination of federal resources and local innovations to help local businesses. The following presenters will be participating in this webinar:

- Chris Higdon, Manager of Community Development with the Georgia Municipal Association (GMA)
- Andrew Carnes, Vice President of Economic Development with Partnership Gwinnett
- Angela Threadgill, City of Decatur Planning and Economic Development Director

### ARC Webinar Series: How COVID-19 has Affected Transportation in Metro Atlanta

The pandemic has greatly affected travel patterns across metro Atlanta, from roads and highways to buses and trains. Staff members from the Atlanta Regional Commission, Georgia Department of Transportation, and MARTA provided details of what's changed since the health crisis began in March.

- **Heather Alhadeff, MARTA's Assistant General Manager, Planning**, discussed how the agency has monitored ridership and provide observations on the impact of ridership declines on the system.
- **Mark Demidovich, GDOT's Assistant State Traffic Engineer**, shared the department's process of monitoring major commuting corridors during COVID-19 and discuss the impact on commuting patterns.
- **John Orr, ARC's Transportation Access Mobility Group Manager**, provided highlights on new data sources that depict the decline in travel and highlight how this decline in travel may possibly impact the regional Transportation Improvement Program (TIP) over time.

VIEW THE WEBINAR

### ARC Webinar: Conducting Virtual Municipal and Public Meetings: Tools and Techniques

The new virtual environment means local governments must make changes to how they conduct municipal and public meetings. Local government representatives from Brookhaven and Alpharetta discuss how they are conducting City Council and Advisory Board meetings, associated challenges, and lessons learned. ARC staff also highlights tools available to facilitate virtual meetings and provide a checklist for local governments to complete prior to conducting meetings.

VIEW THE WEBINAR

**Webinar Resources:**

- [Presentation – Resources for Public Meetings and Engagement](#)
- [Presentation – Virtual Board Meetings – City of Brookhaven](#)
- [Virtual Board Meeting Procedures – City of Brookhaven](#)
- [Presentation – Public Meetings in a Virtual Environment – City of Alpharetta](#)

NEW

### Webinar: Federal Funding for Capital and Planning Projects to Address Economic Impacts of COVID-19

**When:** Tuesday, May 19, 2020 at 2:30 PM EDT

The public health crisis has become an economic crisis. Jonathan Corso, the U.S. Economic Development Administration (EDA) representative for Georgia, explains how \$1.5 billion in EDA funding included in the federal stimulus package can help communities and businesses statewide respond to the economic impacts of COVID-19 through capital and planning projects. He will also outline the process to apply for available funds.

**Webinar Resource:** [Notice of Funding Opportunity](#)

VIEW THE WEBINAR

### Webinar: COVID-19 Economic Impacts on Metro Atlanta (Initial Analysis)

The pandemic is also an economic crisis. ARC's Mike Carnathan explores the industries and residents most impacted and discusses preliminary results from ARC's economic impact forecasting models. Also, Peter Bluestone and Robert Buschman of Georgia State University's Fiscal Research Center discuss their latest research, which explores the impact on Georgia's economy and sales tax revenues

VIEW WEBINAR

**Webinar Resources:**

- Pandemic-Driven Industry Cutbacks and Closures: Georgia Sales Tax Revenue Impacts
  - [Presentation](#)
  - [Report](#)
- [Presentation: ARC Webinar Series – COVID-19 Economic Impacts on Metro Atlanta \(Initial Analysis\)](#)

### ARC Training on Working Remotely For Businesses and Local Governments

Organizations around the region are having to adapt to social distancing in the workplace because of COVID-19. Although there might be some urgency in allowing employees to work from home, it is prudent to develop a policy or guidelines that clearly identify the parameters for teleworking and helps your organization feel confident about employees working remotely. ARC will present [a webinar that will offer practical guidance on teleworking and digital resources](#): how your organization can launch an effective telework program and deploy the necessary IT resources, maximize productivity and decrease employee stress in response to COVID-19.

VIEW TRAINING WEBINAR

You can view more telework webinars hosted by Georgia Commute Options by visiting their [Telework in the Time of COVID-19](#) page.

### ARC Webinar Series: Inclusive Community Engagement COVID-19 and Beyond

The COVID-19 pandemic has disproportionately affected communities of color throughout metro Atlanta, and relief and recovery efforts are compounding existing inequities. This webinar focuses on increasing understanding and capabilities for inclusive community engagement initiatives among communities of color, immigrant communities, and low-income communities during the crisis and beyond.

**Speakers:**

- **Swathi Shanmugasundaram**  
Asian Americans Advancing Justice – Atlanta Policy Manager.
- **Calinda Lee**  
Atlanta History Center's Vice President of Historical Interpretation and Community Partnerships
- **Odetta Macleish-White**  
TransFormation Alliance's Managing Director

### Webinar: Maintaining Municipal Operations and Services in Response to COVID-19

This webinar, a collaboration between ARC and the Council for Quality Growth, showcases how local governments are providing municipal services during the pandemic. The webinar featured representatives from the City of Woodstock and Cobb County about how they are maintaining municipal services including issuing permits, conducting inspections, code enforcement, and other critical operations.

VIEW THE WEBINAR

**Webinar Resources:**

- [Presentation – COVID-19 Update from Cobb County Community Development Agency](#)
- [Presentation – Shelter-in-Place: Community Development Services Uninterrupted](#)

### ARC Webinar: Helping Local Governments Analyze COVID Data

The coronavirus is a fast-moving public health challenge. ARC has developed several interactive data tools to help local governments and other officials better understand what's happening in the region and in their own communities. Our research analysts walk you through how to use these tools.

LISTEN TO THE WEBINAR





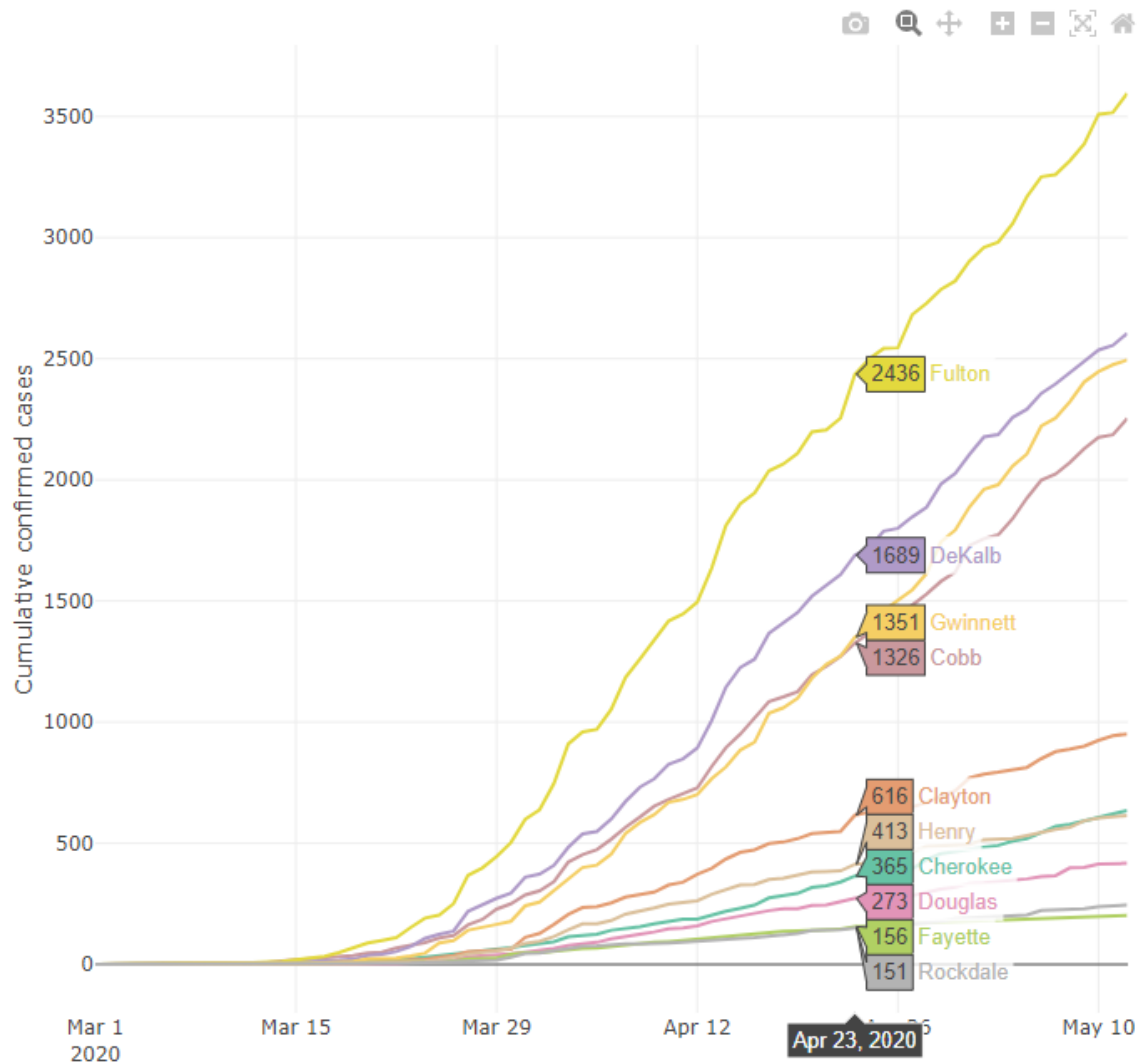
Atlanta Regional Commission

# ARC May 2020 Board Meeting

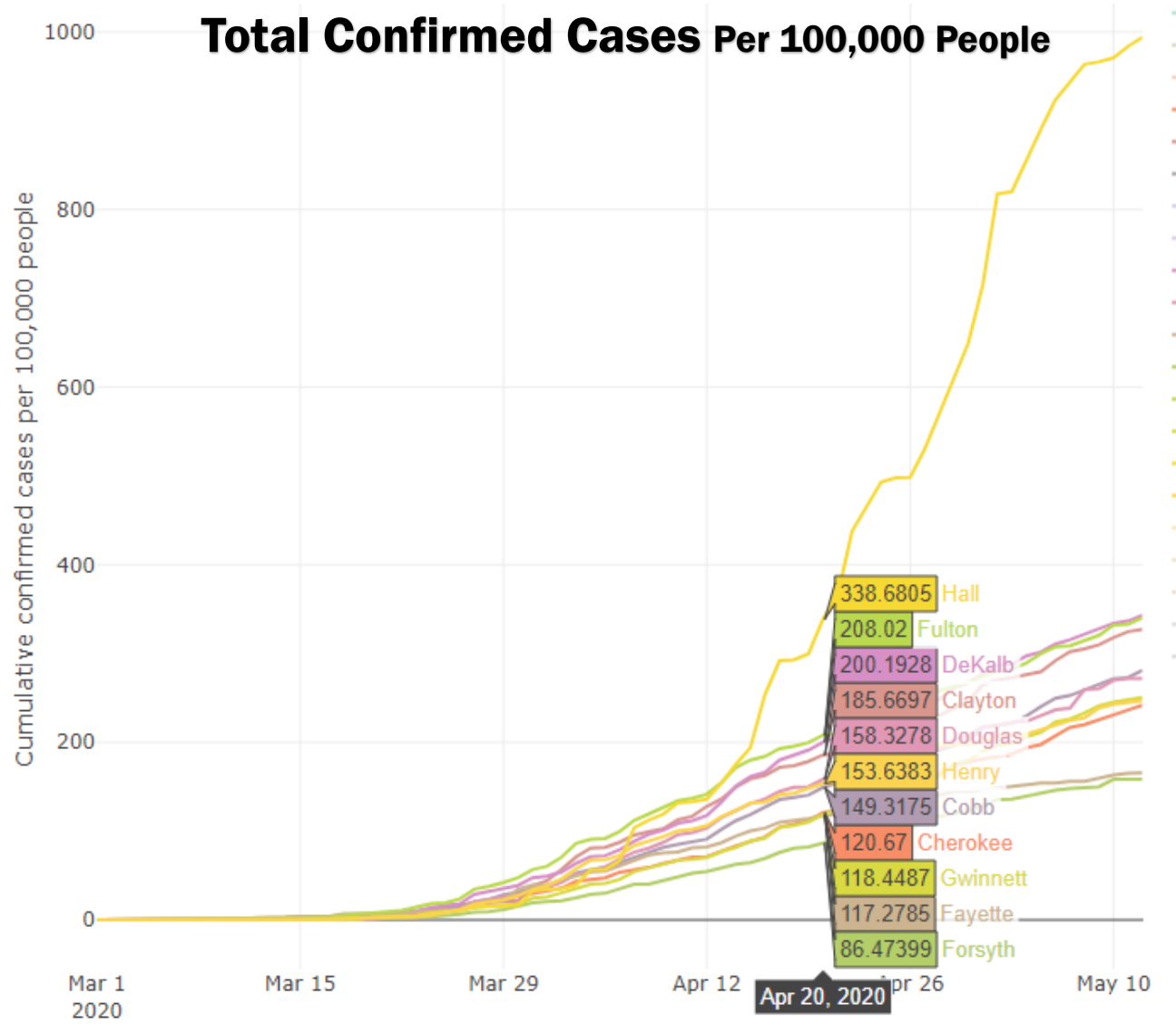
## ARC COVID-19 Dashboard

<https://atlantaregional.shinyapps.io/COVID19/>

### Total Confirmed Cases



### Total Confirmed Cases Per 100,000 People



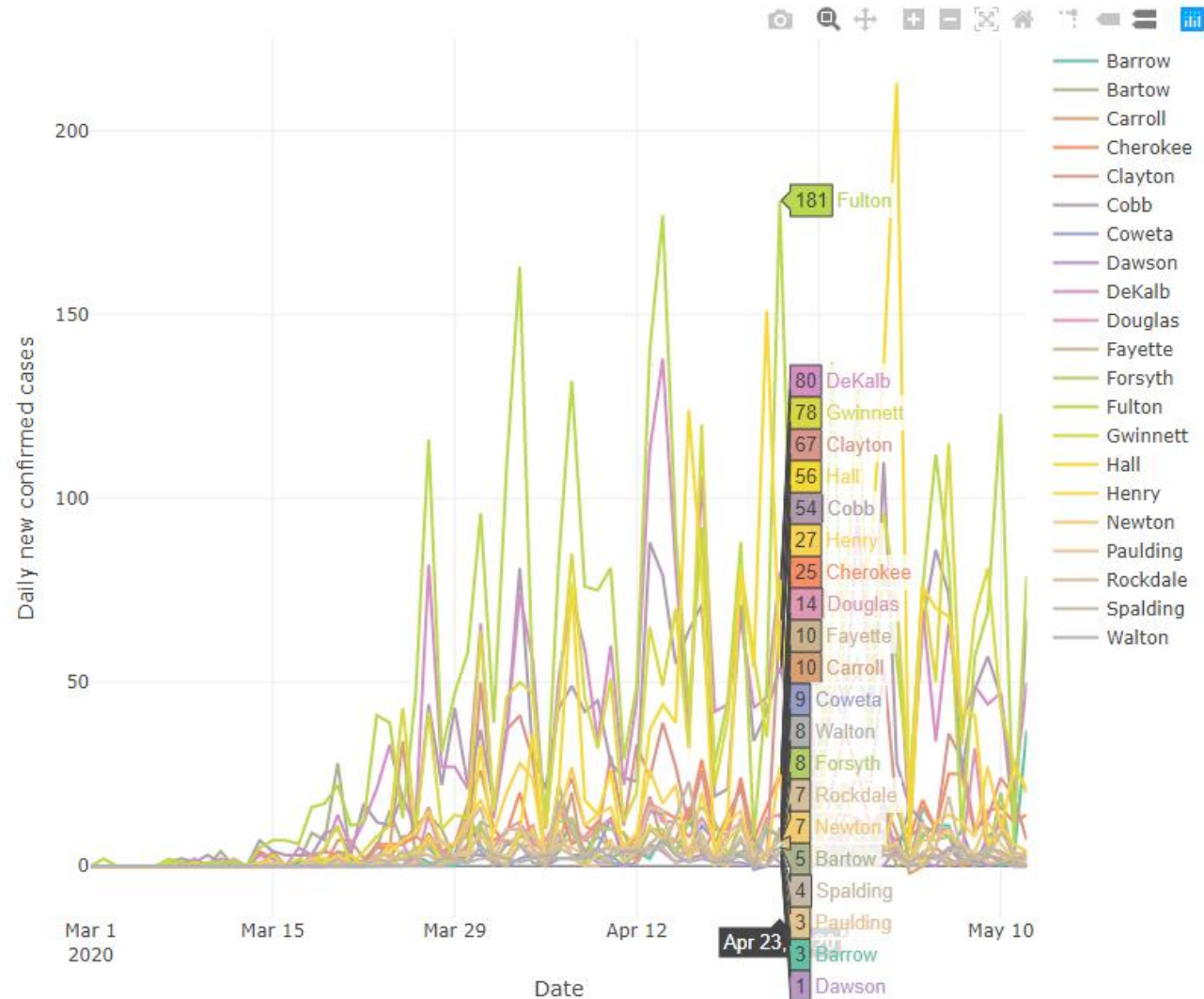


Atlanta Regional Commission

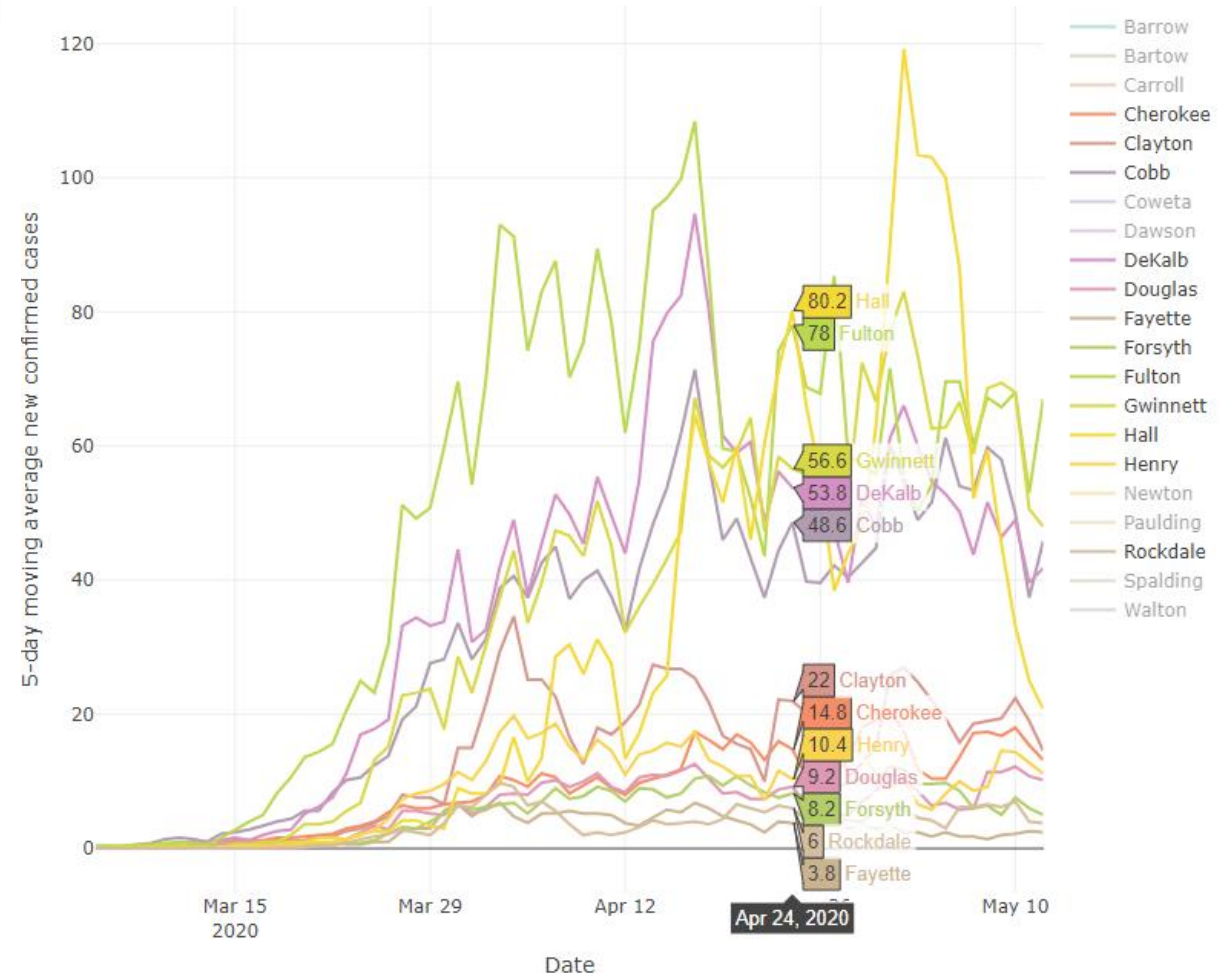
# ARC May 2020 Board Meeting

**ARC COVID-19 Dashboard** <https://atlantaregional.shinyapps.io/COVID19/>

## Daily New Confirmed Cases



## Daily New Confirmed Cases 5-Day Moving Average



Learn More About Global Spread Trend:

[COVID-19 tracker](#), Edward Parker & Quentin Leclerc at London School of Hygiene & Tropical Medicine

## County Long-Term Projections



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### IEM's AI Modeling: Short-term COVID-19 Projections For Select Metropolitan Atlanta Counties NEW: Long-range COVID-19 Projections

Leveraging over 15 years of support to HHS for medical consequence modeling and our proprietary artificial intelligence (AI) models, IEM believes that our Coronavirus model outputs can be used to assist localities and their medical facilities to better prepare for an increase in hospitalizations, to better plan for and locate drive-through testing facilities, and to determine where increased levels of transmission may be occurring.



We have been refining our AI model over the past month and are confident in its ability to provide accurate 7-Day projections of confirmed cases that can be used for operational and logistical planning. Additionally, we also provide projections for medical demand – hospitalizations, intensive care unit (ICU) care, and mechanical ventilation. **New long-range projections have been developed to provide projections for up to 3 weeks. These long-range projections naturally have higher uncertainty than the short-term (7-day) projections.**

#### AI-based Model Background

IEM is currently using an AI model to fit data from various sources and project new cases of COVID-19. We do not assume the average number of secondary infections (R-value) stays the same over time. IEM's AI model finds the best R-value over time to evaluate how it changes over the course of the outbreak. The IEM modeling team is running ~11 million simulations to fit each jurisdiction's data for actual confirmed cases and using the best fit for the R-value to project new cases over the next 7 days. Any changes in the R-value are purely based on the confirmed case data and are not attributable to specific factors such as social distancing (although social distancing is a major factor). The AI models are executed on a daily basis to evaluate the changing dynamics of the COVID-19 pandemic. Our projections have typically been within 20%, and are often within 10%, of actual confirmed cases.

The projections shown in this document are based on data pulled in as of 5/19/20 3 a.m.

Please provide any feedback or send any questions that you might have to us. We are continually updating and improving the model, so your feedback is critical.

Also, if you have more current or refined data for your jurisdiction that you would like IEM to factor in, please let us know.

#### IEM's Modeling Lead

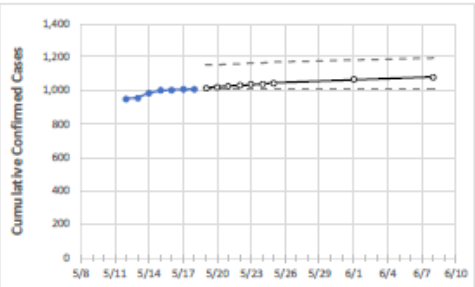
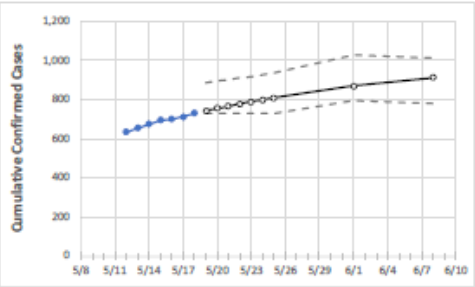
Dr. Ibrahim "Sidi" Bacam is a Computational Epidemiologist expert at IEM with more than 20 years of experience in medical consequence modeling and simulation of disease outbreaks and medical consequences following hypothetical attacks with biological agents or emerging infectious diseases. He develops key simulation models and decision support tools at IEM, specializing in public health, disaster response, and medical countermeasures (MCM) to enhance data-driven decision making and improve modeling assumptions.

Upon receiving his Ph.D. in Applied Mathematics and Immunobiology at Iowa State University, Dr. Bacam worked as a Postdoctoral Research Associate at Los Alamos National Laboratory where he focused on researching viral and immunological modeling. He has worked with state and local public health officials as well as Federal agencies, including HHS, the Centers for Disease Control and Prevention (CDC), and the Department of Homeland Security (DHS). Dr. Bacam has published numerous papers on public health response models and implications on policy and has been invited to participate in workshops and symposiums held by the Institute of Medicine (now the National Academy of Health). His modeling results have been briefed to the Executive Office of the President and informed two presidential policy actions.



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#### Projection Graphs:





## In Your Inbox Soon

## COVID-19 RESPONSE DATA

WEEKLY ROUNDUP – Monday, May 18 – Page 1

The data presented in this report typically correspond to the week ending on May 9, 2020.  
Notes are numbered with a superscript and explained in the footnotes.

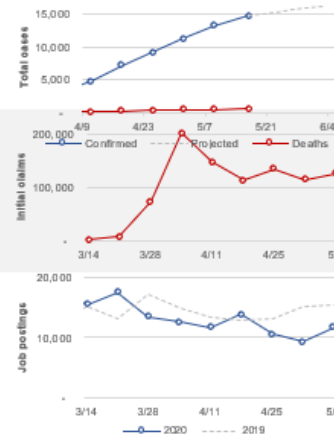
New COVID-19 Confirmed Cases (10-County Area)<sup>(a)</sup>:

May 3 – May 9: 2,077 new cases (+18.5% from total)

Total confirmed cases up to May 16: 14,800

Hospitalizations: 2,903 (19.6% of total cases)

Cumulative Deaths: 595 (4.0% of total cases)



## Initial Unemployment Insurance Claims (10-County Area):

126,416 (+10.4% from May 2)

(+5,957.3% from baseline)<sup>(b)</sup>

Top 3 most affected industries:

1. Accommodation and Food Services (31,196)<sup>(c)</sup>
2. Retail Trade (26,720)
3. Health Care and Social Assistance (11,832)

## Job Postings (Atlanta-Sandy Springs-Marietta MSA):

11,767 (+26.6% from May 2)

Same week last year: 15,574 (-24.4% from last year)

Top 3 occupations in demand:

1. Healthcare Practitioners and Technical (1,455)
2. Computer and Mathematical (1,416)
3. Sales and Related (1256)

## Residential Building Permits (10-County Area):

Total units: 165 (-44.2% from baseline)<sup>(d)</sup>(-80.9% from last year)<sup>(e)</sup>Valued at \$ 44,821,994 (-47.8% from last year)<sup>(e)</sup>

## Commercial Building Permits (10-County Area):

Total units: 3 (-88.6% from baseline)<sup>(d)</sup>(-85.0% from last year)<sup>(e)</sup>Valued at \$ 9,236,653 (-79.3% from last year)<sup>(e)</sup>

## Overall Time Spent Outside of Home (10-County Area):

-21.0% compared to baseline<sup>(f)</sup>

(+5.6 percentage points from last week)

## Vehicle (VMT) – Workweek Average (10-County Area):

88,605,000 Miles (-63.6% from baseline)<sup>(g)</sup>

(+27.8% from last week)



a) Up to May 17, 2020.  
b) Baseline is the total number of initial unemployment claims for the week of Mar 8-Mar 14, 2020.  
c) After "Unclassified", with 26,157 claims.  
d) Baseline is the weekly average for the period Jan 05-Mar 06, 2020.  
e) Compared to same week of last year.  
f) Google's Mobility Reports based on median value, for the corresponding day of the week, for the 5-week period Jan 3-Feb 6, 2020.

## COVID-19 RESPONSE DATA

WEEKLY ROUNDUP – Monday, May 18 – Page 2

The data presented in this report typically correspond to the week ending on May 9, 2020.  
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## COVID-19 WEEKLY NEW CASES BY COUNTY

COUNTY	TOTAL CONFIRMED	RATE (Per 100K)	NEW CASES		WEEKLY CHANGE IN NEW CASES	HOSPITALIZED	CUMMULATIVE DEATHS
			May 3 - May 9	May 10 - May 16			
Cherokee	714	238.2	111	121	9.0%	116	24
Clayton	1,005	312.0	124	104	-16.1%	160	39
Cobb	2,406	265.0	379	278	-26.6%	578	132
DeKalb	2,802	328.4	341	313	-8.2%	538	82
Douglas	437	274.5	65	37	-43.1%	111	15
Fayette	207	171.9	14	12	-14.3%	35	11
Fulton	3,759	327.1	457	374	-18.2%	708	165
Gwinnett	2,594	266.9	469	191	-59.3%	512	102
Henry	627	266.0	81	34	-58.0%	83	18
Rockdale	249	266.0	36	19	-47.2%	62	7
<b>Total</b>	<b>14,800</b>	<b>263.3</b>	<b>2,077</b>	<b>1,483</b>	<b>-28.6%</b>	<b>2,903</b>	<b>595</b>

## KEY INDICATORS BY COUNTY

COUNTY	UNEMPLOYMENT CLAIMS		BUILDING PERMITS		OVERALL TIME SPENT OUT		VEHICLE	
	UI CLAIMS	CHANGE (%)	RESIDENTIAL	COMMERCIAL	BASELINE (i)	CHANGE (%)	VMT (j)	BASELINE (i)
Cherokee	5,455	13.7%	12		-25.7	6.2	6,396,000	-92.7%
Clayton	8,329	-6.4%			-16.8	7.7	9,087,000	-92.2%
Cobb	17,725	11.8%	32		-32.6	5.4	12,872,000	-94.2%
DeKalb	19,981	13.5%	17	1	-30.4	5.5	8,933,000	-94.7%
Douglas	4,350	19.4%	1		-21.3	6.7	4,661,000	-92.5%
Fayette	3,597	5.4%	7	2	-27.1	7.2	2,475,000	-93.5%
Fulton	33,068	9.0%	25		-38.4	5.1	14,490,000	-95.0%
Gwinnett	24,005	19.1%	61		-30.6	5.4	18,740,000	-93.7%
Henry	7,422	-1.1%	10		-24.0	6.7	8,439,000	-91.4%
Rockdale	2,484	8.4%			-19.5	7.0	2,512,000	-92.7%
<b>Total</b>	<b>126,416</b>	<b>10.4%</b>	<b>165</b>	<b>3</b>	<b>-22.4</b>	<b>4.1</b>	<b>88,605,000</b>	<b>-93.9%</b>

h) Change from prior week.  
i) Change from baseline (see footnotes on page 1).  
j) Weekday averages for each county.