Fulton County Board of Health Epidemiology Report
## COVID-19 Diagnoses – 7/20/2020

SUMMARY

- As of July 20, 2020, Fulton County has recorded **13,364** cases of the 2019 novel coronavirus (COVID-19) and **340** deaths.
- Of 4,518 **new diagnoses** made between June 27 and July 10, the central portion of the county (Atlanta metro) accounted for 49% while the northern and southern parts accounted for 18% and 20% respectively.
- By city, **new** COVID-19 diagnoses rates range from 125.5 per 100,000 persons (Johns Creek) to 548.9 per 100,000 persons (Palmetto). [Fulton County Diagnoses Rates (per 100,000 persons): Cumulative – 1,256.1; Incident – 424.6]. See map showing incident case rate by ZIP code on Pg.4.
- Among all persons diagnosed with COVID-19 in Fulton County, 10.7% required hospitalization and 2.5% died.
- Residents and staff of long-term care facilities account for 11.0% of COVID-19 diagnoses and 56.2% of COVID-19 deaths in Fulton County

Fig 1. Daily and Cumulative COVID-19 diagnoses in Fulton County, GA

Legend: Hospitalized cases | Cases not known to be hospitalized | Cumulative Case Count
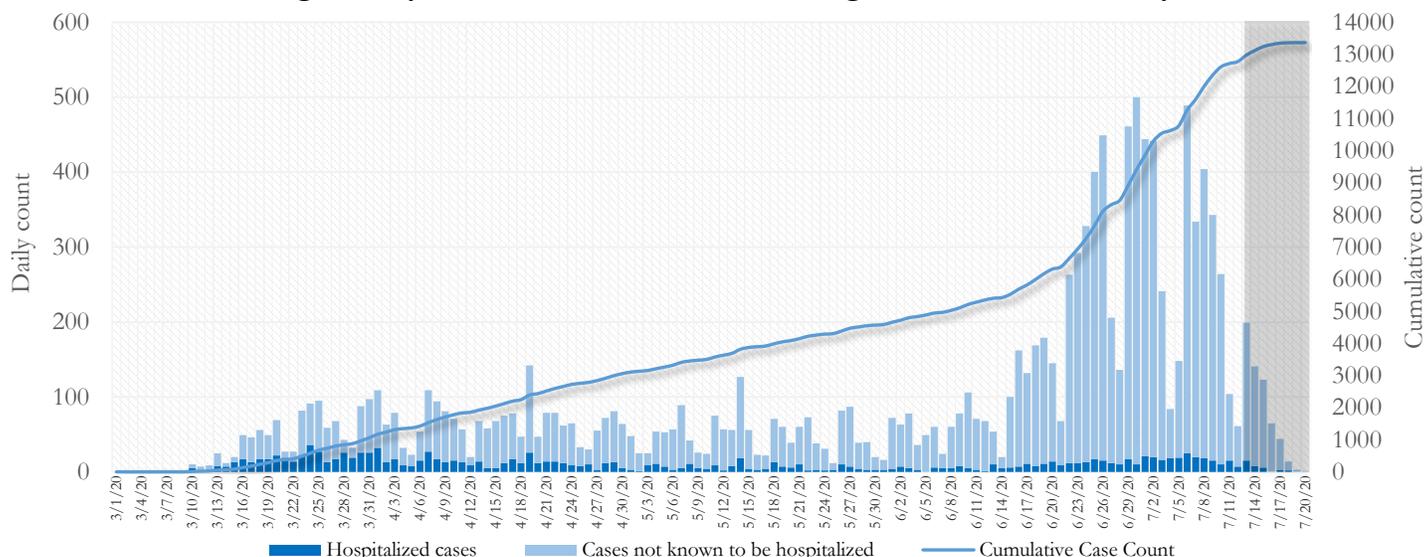
*Counts shown reflect the number of confirmed cases as of 9:00am on 7/20/20 using the date of first positive sample collection. Where date of sample collection was not available or missing, the date of report creation in GA SENDSS was used instead. **Note:** All data reported are preliminary and subject to change. Delays in data reporting may cause changes in data counts, particularly in the shaded portion.*
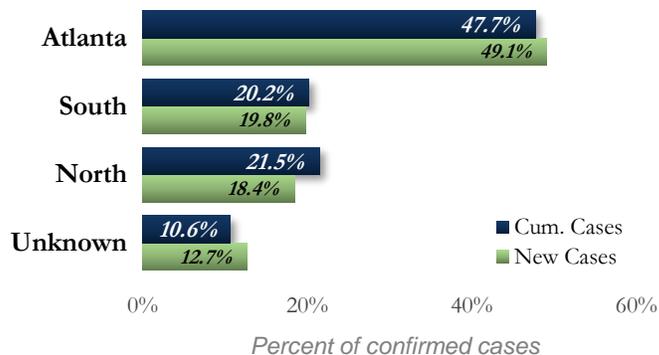
DISTRIBUTION OF COVID-19 DIAGNOSES BY REGION

New cases: 49% of the new COVID-19 cases diagnosed in the past 2 weeks occurred in Atlanta while 18% and 20% occurred in the Northern and Southern regions of the county respectively.

Fulton Region	% Cumulative count	% New cases*
Atlanta	47.7%	49.1%
North[1]	21.5%	18.4%
South[2]	20.2%	19.8%
Unincorporated/Unknown	10.6%	12.7%

*[1]Includes all Fulton County cities north of Atlanta metro (Alpharetta, Milton, Johns Creek, Roswell, Sandy Springs, Mountain Park) |[2]Includes all cities south of Atlanta (College Park, Chattahoochee Hills, East Point, Hapeville, Palmetto, South Fulton, Fairburn, and Union City) *__New cases__: Cases diagnosed in the past 2 weeks only (between 6/30/20 – 7/13/20).*

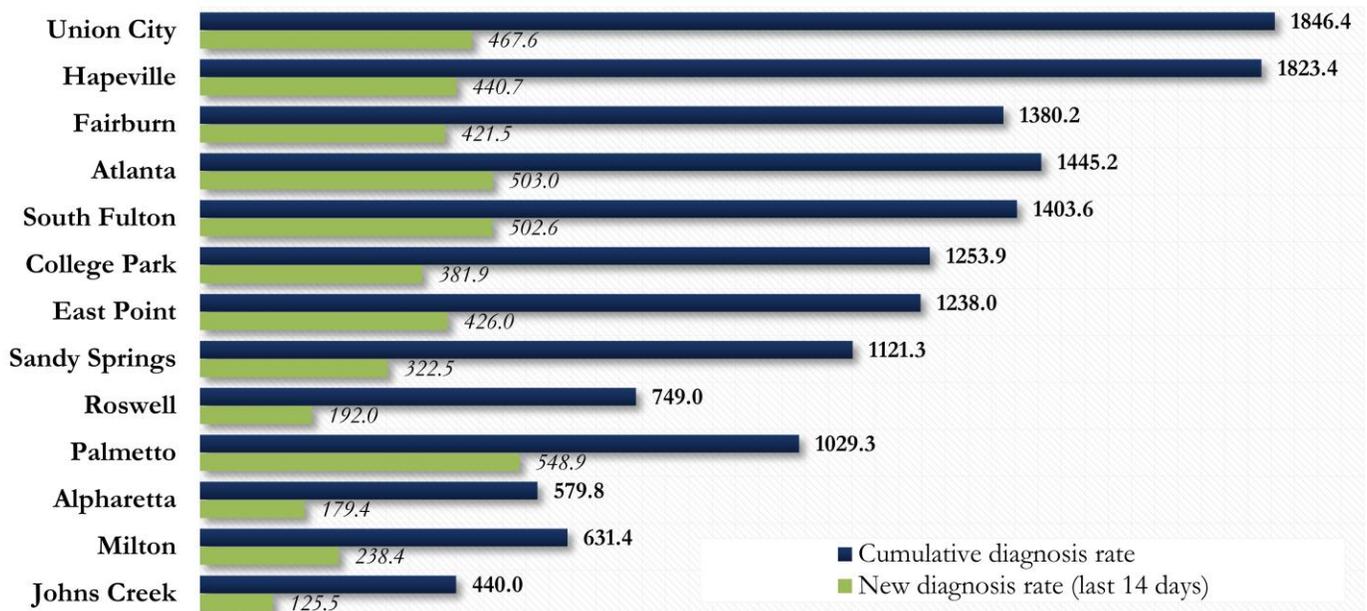### Fig. 2. Distribution of COVID 19 cases by Region

Region	Cum. Cases	New Cases
Atlanta	47.7%	49.1%
South	20.2%	19.8%
North	21.5%	18.4%
Unknown	10.6%	12.7%

Percent of confirmed cases

COVID-19 CASE COUNTS AND RATES BY CITY

|	Prior (7/17/20)	Current Total (7/20/20)			New Cases *(Period: 6/15/20 – 7/13/20)*[1]			
	Count	Count	%	Cum. Rate[2]	Ist 14 d. *(6/15–6/29)*	Last 14 d. *(6/30–7/13)*	% change[3]	Rate[4] *(Last 14 d).*
Atlanta	5981	6376	47.7%	1445.2	1528	2219	↑ 45.2%	503.0
South Fulton	1252	1335	10.0%	1403.6	276	478	↑ 73.2%	502.6
Sandy Springs	1123	1182	8.8%	1121.3	281	340	↑ 21.0%	322.5
Roswell	671	706	5.3%	749.0	179	181	↑ 1.1%	192.0
East Point	405	433	3.2%	1238.0	90	149	↑ 65.6%	426.0
Johns Creek	348	368	2.8%	440.0	103	105	↑ 1.9%	125.5
Union City	361	387	2.9%	1846.4	74	98	↑ 32.4%	467.6
Alpharetta	353	375	2.8%	579.8	115	116	↑ 0.9%	179.4
Milton	224	241	1.8%	631.4	60	91	↑ 51.7%	238.4
Fairburn	191	203	1.5%	1380.2	30	62	↑ 106.7%	421.5
College Park	165	174	1.3%	1253.9	22	53	↑ 140.9%	381.9
Palmetto	43	45	0.3%	1029.3	<10	24	↑ 380.0%	548.9
Hapeville	118	120	0.9%	1823.4	23	29	↑ 26.1%	440.7
Mountain Park	0	0	0.0%	-	0	0	-	0.0
Unknown	1343	1419	10.6%	-	237	571	-	-

[1]**New cases:** *Cases diagnosed in most recent 28 days (based on reported dates of positive sample collection). To allow for lag in reporting results of new diagnoses from samples collected in the most recent week, data used for incident diagnoses analyses were moved back by one week.* [2]**Cumulative diagnosis rate:** *Population estimates from US Census Bureau used to calculate cumulative diagnoses rate. All rates shown are per 100,000 persons.* [3]**Percent change:** *These reflect the percentage increase or decrease in new diagnoses between the 14 days preceding the most recent 7 days and the 14 days preceding that. Changes in cities with less than 10 cases in* both *2 week intervals are not reported* [4]**Incidence Rate:** *Rate of new diagnoses in the recent past 14 days.* **Data cleaning (either during case interviews or address geo-coding) may lead to reassignment of few cases from one territory to another based on their corrected addresses. These may appear as "decreases" when compared to the previous day's count. These do not reflect errors in the data collection or analysis process but only reflect the minor day-to-day fluctuations in case counts that arise in an evolving public health database like COVID's.* **Note:** *Sharp increases in territorial COVID case counts often reflect new cases diagnosed at long term care facilities located in those territories during facility-wide /mass screening events* ***All data reported are preliminary and subject to change***.

Fig. 3. Incident & Cumulative Diagnoses Rates for COVID-19 by City

City	New diagnosis rate (last 14 days)	Cumulative diagnosis rate
Union City	467.6	1846.4
Hapeville	440.7	1823.4
Fairburn	421.5	1380.2
Atlanta	503.0	1445.2
South Fulton	502.6	1403.6
College Park	381.9	1253.9
East Point	426.0	1238.0
Sandy Springs	322.5	1121.3
Roswell	192.0	749.0
Palmetto	548.9	1029.3
Alpharetta	179.4	579.8
Milton	238.4	631.4
Johns Creek	125.5	440.0

■ Cumulative diagnosis rate
■ New diagnosis rate (last 14 days)

*Rates shown are per 100,000 persons | **Note:** *Mass testing in specific locations (e.g. long term care facilities) may cause sharp increases in the cumulative rate of COVID-19 diagnosis in those territories. All data shown are preliminary and are subject to change as testing results get updated.*

Fig. 4. Density Map – New COVID 19 Diagnoses (Jun 30 – Jul 13, 2020) in Fulton County
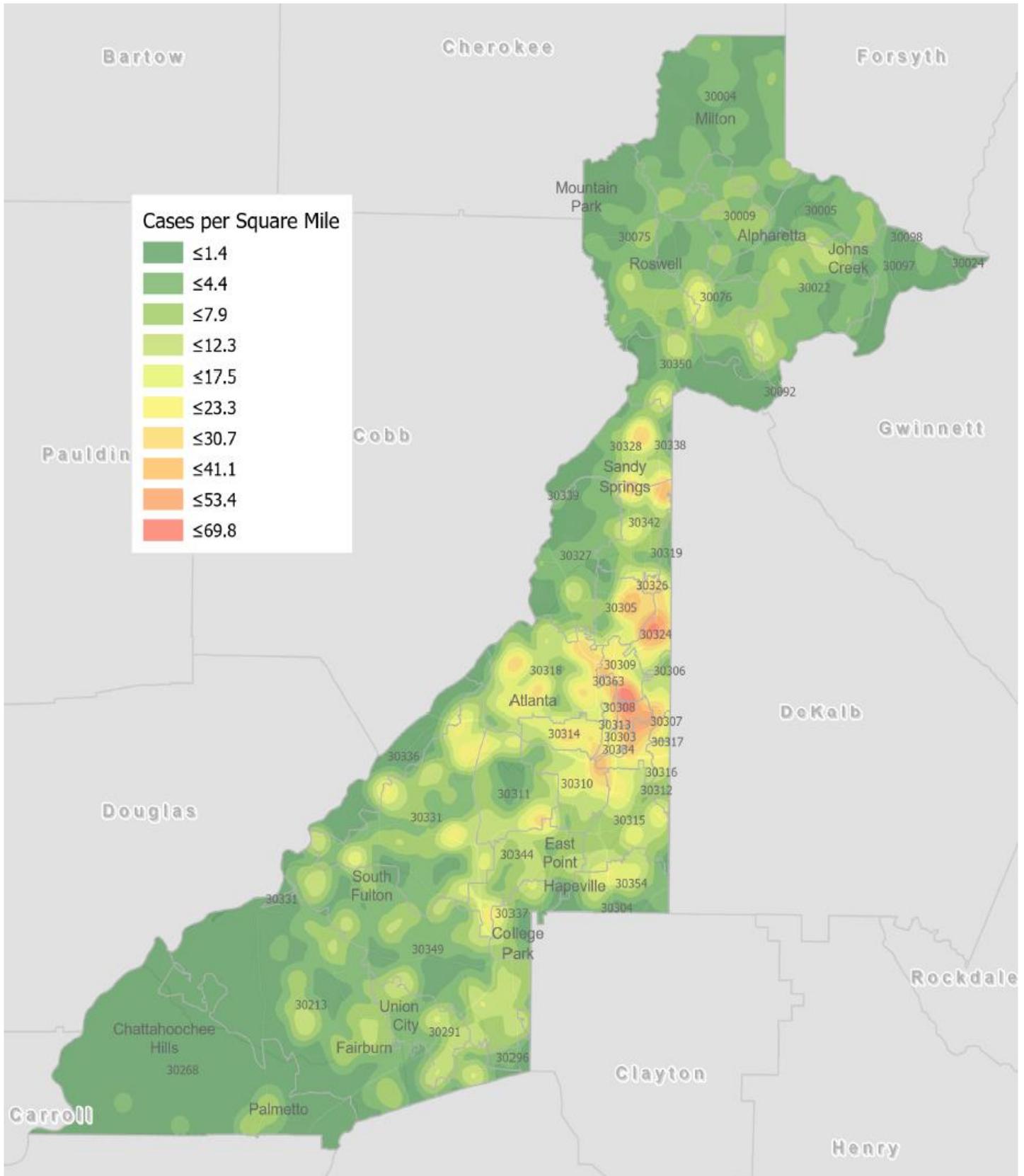
*NB. **New COVID-19 cases:** Cases diagnosed in most recent 14 days (based on reported dates of positive sample collection). To allow for lag in reporting results of positive cases from samples collected in the immediate past 7 days, data used for incident diagnoses analyses are moved back by one week. Map reflects new COVID-19 cases diagnosed between June 30th and Jul 13th, 2020 across Fulton County.*

Fig. 5. New COVID-19 Diagnoses Rates by ZIP Code (Jun 30 – Jul 13, 2020)
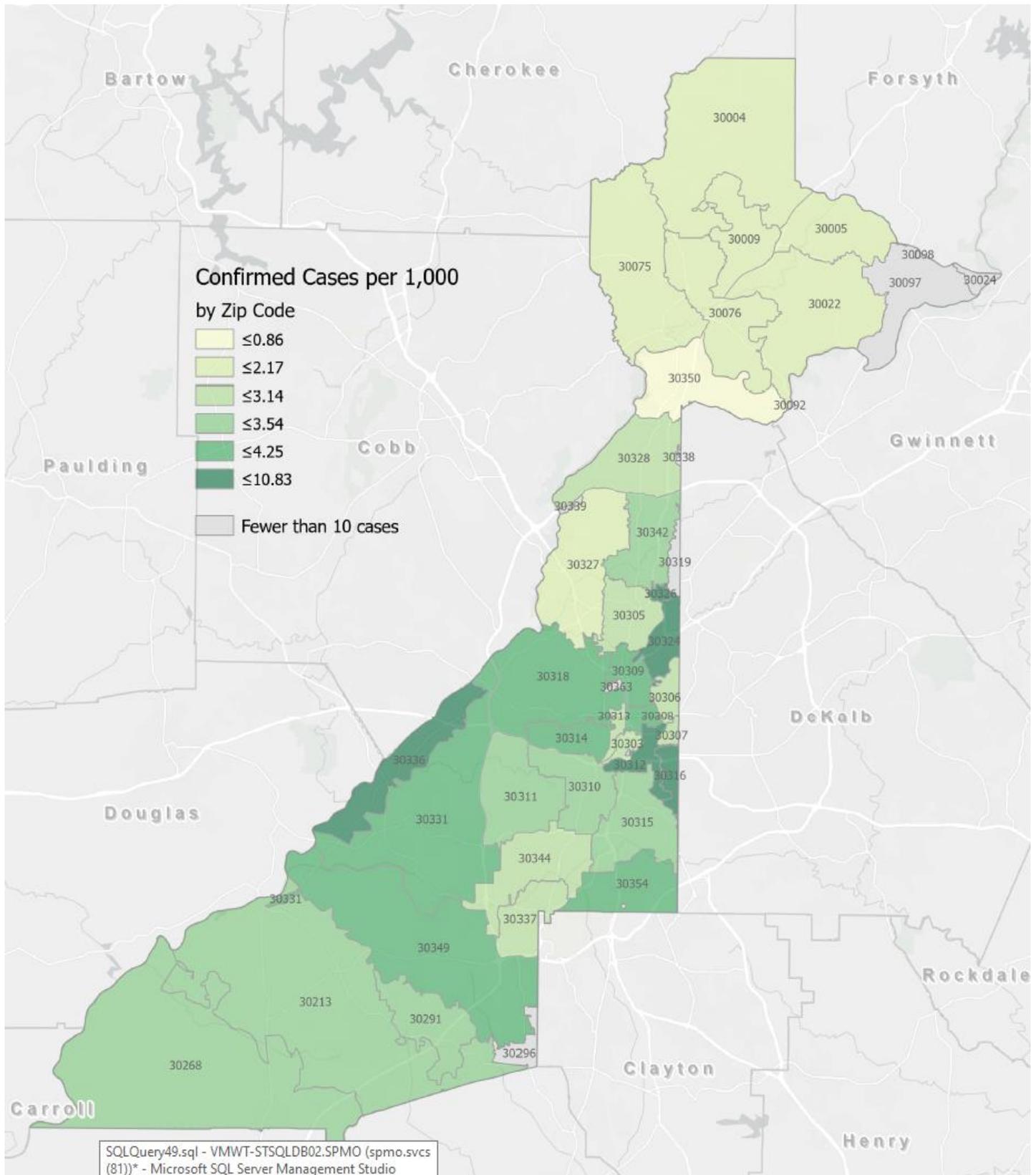
Rates shown are per 1,000 populations.
New COVID-19 cases: *Cases diagnosed in most recent 14 days (based on reported dates of positive sample collection). To allow for lag in reporting results of positive cases from samples collected in the immediate past7 days, data used for incident diagnoses analyses are moved back by one week. Data used excludes outbreak-related cases at long-term care facilities and map shown reflects only the new non-LTCF cases diagnosed between Jun 30ᵗʰ and Jul 13ᵗʰ 2020.*

COVID-19 CASE COUNTS BY ZIP CODE

	Prior (7/17/20)	Current Total (7/20/20)		New Cases *(Period: 6/15/20 – 7/13/20)*[1]		
	Count	Count	%	1st 14 days *(Jun 15 – Jun 29)*	Last 14 d. *(Jun 30 – Jul 13)*	% change[2]
All Fulton	12578	13364	100.0%	3029	4518	↑ 49.2%
30331	855	909	6.8%	175	303	↑ 73.1%
30318	838	873	6.5%	205	324	↑ 58.0%
30349	770	832	6.2%	173	321	↑ 85.5%
30213	481	510	3.8%	98	170	↑ 73.5%
30315	383	398	3.0%	72	145	↑ 101.4%
30344	362	388	2.9%	80	128	↑ 60.0%
30311	388	403	3.0%	99	141	↑ 42.4%
30342	568	607	4.5%	138	188	↑ 36.2%
30314	344	355	2.7%	37	99	↑ 167.6%
30310	396	415	3.1%	89	127	↑ 42.7%
30308	251	267	2.0%	70	104	↑ 48.6%
30022	374	404	3.0%	118	130	↑ 10.2%
30327	257	263	2.0%	83	67	↓ 19.3%
30004	327	353	2.6%	84	134	↑ 59.5%
30309	413	435	3.3%	130	151	↑ 16.2%
30076	284	302	2.3%	86	86	-
30291	390	414	3.1%	69	103	↑ 49.3%
30350	252	260	1.9%	64	44	↓ 31.3%
30075	350	362	2.7%	80	91	↑ 13.8%
30328	339	360	2.7%	97	131	↑ 35.1%
30316	189	207	1.5%	39	98	↑ 151.3%
30312	472	491	3.7%	97	143	↑ 47.4%
30005	179	185	1.4%	64	59	↓ 7.8%
30305	394	416	3.1%	132	118	↓ 10.6%
30306	155	164	1.2%	37	70	↑ 89.2%
30324	492	522	3.9%	151	195	↑ 29.1%
30337	155	165	1.2%	20	47	↑ 135.0%
30009	139	145	1.1%	34	46	↑ 35.3%
30313	89	96	0.7%	19	31	↑ 63.2%
30326	110	117	0.9%	42	39	↓ 7.1%
30097	77	80	0.6%	20	12	↓ 40.0%
30354	224	229	1.7%	46	83	↑ 80.4%
30303	101	205	1.5%	28	133	↑ 375.0%
30339	149	157	1.2%	27	107	↑ 296.3%
30268	63	66	0.5%	<10	35	↑ 337.5%
30307	75	85	0.6%	17	42	↑ 147.1%
30319	71	75	0.6%	30	10	↓ 66.7%
30336	51	54	0.4%	17	16	↓ 5.9%
30296	18	19	0.1%	<10	<10	-
30363	30	36	0.3%	10	15	↑ 50.0%
30301	<10	<10	<0.1%	0	<10	-
30345	25	25	0.2%	<10	<10	-
31131	<10	<10	<0.1%	<10	<10	-
30023	<10	<10	<0.1%	<10	<10	-
30080	<10	<10	<0.1%	0	0	-
30135	<10	<10	<0.1%	0	<10	-
30138	<10	<10	<0.1%	0	0	-
30139	-	-	-	0	0	-
30321	<10	<10	<0.1%	<10	<10	

30340	24	24	0.2%	11	<10	↓ 90.9%
30341	23	24	0.2%	<10	<10	-
30358	<10	<10	<0.1%	0	0	-
30374	27	23	0.2%	<10	0	↓ 100.0%
30606	<10	<10	<0.1%	0	0	-
31150	<10	<10	<0.1%	0	0	-
30024	<10	<10	<0.1%	<10	<10	-
30098	-	-	-	0	0	-
30334	<10	<10	<0.1%	<10	<10	-
30338	63	73	0.5%	13	51	↑ 292.3%
Unknown	516	524	3.9%	92	153	-

[1]*New cases:* Cases diagnosed in most recent 28 days (based on reported dates of positive sample collection). To allow for lag in reporting results of new diagnoses from samples collected in the most recent week, data used for incident diagnoses analyses were moved back by one week. [2]*Percent change:* These reflect the percentage increase or decrease of new diagnoses between the 14 days preceding the past 7 days and the 14 days preceding that. Changes in ZIP codes with less than 10 cases in <u>both</u> 2 week intervals are not reported**Data cleaning (either during case interviews or address geo-coding) may lead to reassignment of few cases from one territory to another based on their corrected addresses. These may appear as "decreases" when compared to the previous day's count. These do not reflect errors in the data collection or analysis process but only reflect the minor day-to-day fluctuations in case counts that arise in an evolving public health database like COVID's. **Note:** Sharp increases in territorial COVID case counts often reflect new cases diagnosed at long term care facilities located in those territories during facility-wide /mass screening events **All data reported are preliminary and subject to change**.

REPORTING SYMPTOMS AMONG PERSONS DIAGNOSED WITH COVID-19 IN FULTON

People with COVID-19 have reported a wide range of symptoms ranging from mild symptoms to severe illness. Symptoms may appear 2-14 days after exposure to the virus. Symptoms reported include: cough, shortness of breath/difficulty breathing, fever, chills, repeated shaking with chills, muscle pain, headache, sore throat, new loss of taste or smell – Centers for Disease Control and Prevention (CDC)
https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html

Fig. 6. Proportion Reporting Symptoms in Fulton County

27.2%

72.8%

■ Had symptoms
■ Did not have symptoms
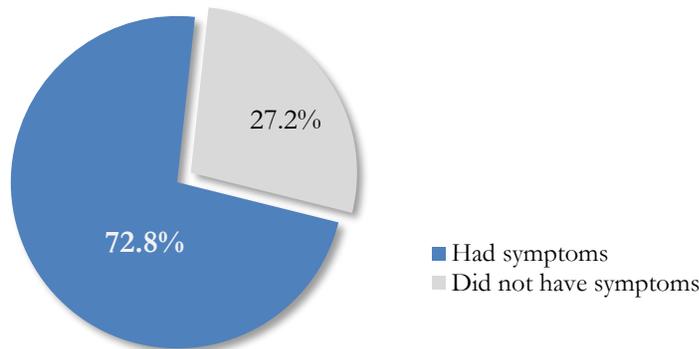
COVID-19 cases who have been case interviewed or had medical charts reviewed as at 7/20/20 only

COVID-19 HOSPITALIZATIONS, ICU ADMISSIONS AND DEATHS IN FULTON

Fig. 7. Hospitalizations, ICU Admissions and Deaths among COVID-19 Diagnoses in Fulton County

Percent of all COVID19 diagnoses

- Hospitalized: 10.7%
- Admitted to ICU: 2.5%
- Intubated: 1.4%
- Died: 2.5%
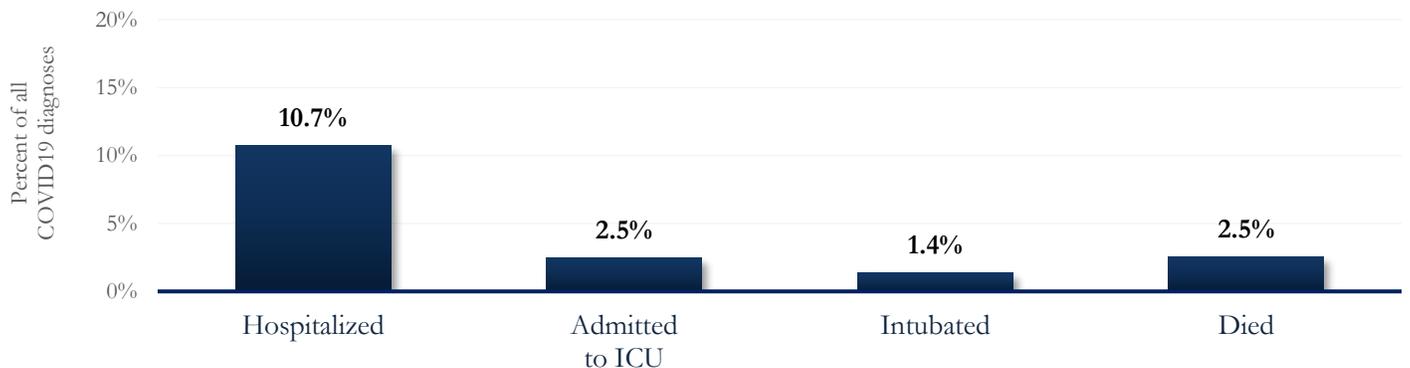
DEMOGRAPHIC DISTRIBUTIONS – COVID 19 DIAGNOSES AND DEATHS IN FULTON

		COVID-19 Diagnoses (n=13,364) Count (%)	**COVID-19 Deaths** (n=340) Count (%)
Gender:	Female	6430 (48.1%)	160 (47.1%)
	Male	5918 (44.3%)	180 (52.9%)
	Unknown/Missing	1016 (7.6%)	
Age:	0-9	251 (1.9%)	0
	10-19	822 (6.2%)	<10
	20-29	3300 (24.7%)	<10
	30-39	2699 (20.2%)	<10
	40-49	1975 (14.8%)	11 (3.2%)
	50-59	1683 (12.6%)	23 (6.8%)
	60-69	1193 (8.9%)	61 (17.9%)
	≥70	1405 (10.5%)	236 (69.4%)
	Unknown/Missing	36 (0.3%)	0
Race:	Asian, NH	177 (1.3%)	<10
	Black, NH	4847 (36.3%)	243 (71.5%)
	White, NH	2128 (15.9%)	75 (22.1%)
	Hispanic	1102 (8.2%)	11 (3.2%)
	Other, NH	401 (3.0%)	<10
	Unknown/Missing	4709 (35.2%)	<10

Note: All data reported are preliminary and subject to change.

COVID-19 CASE TRENDS

Fig. 8. Daily Case Counts for Atlanta Metro Districts
(Averaged over 7 days)
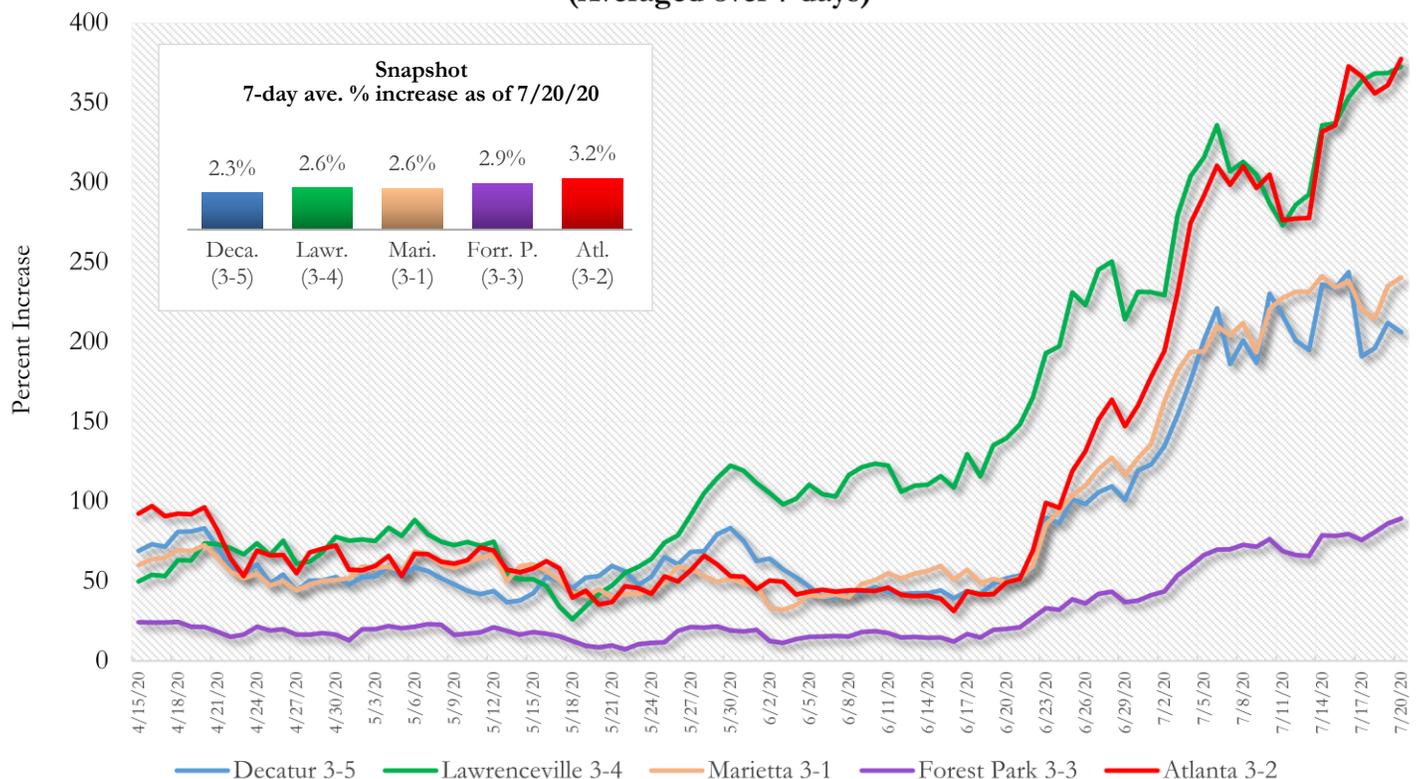
Fig. 9. COVID-19 Cases in Fulton County and Surrounding Districts (Jun 30 – Jul 13, 2020)
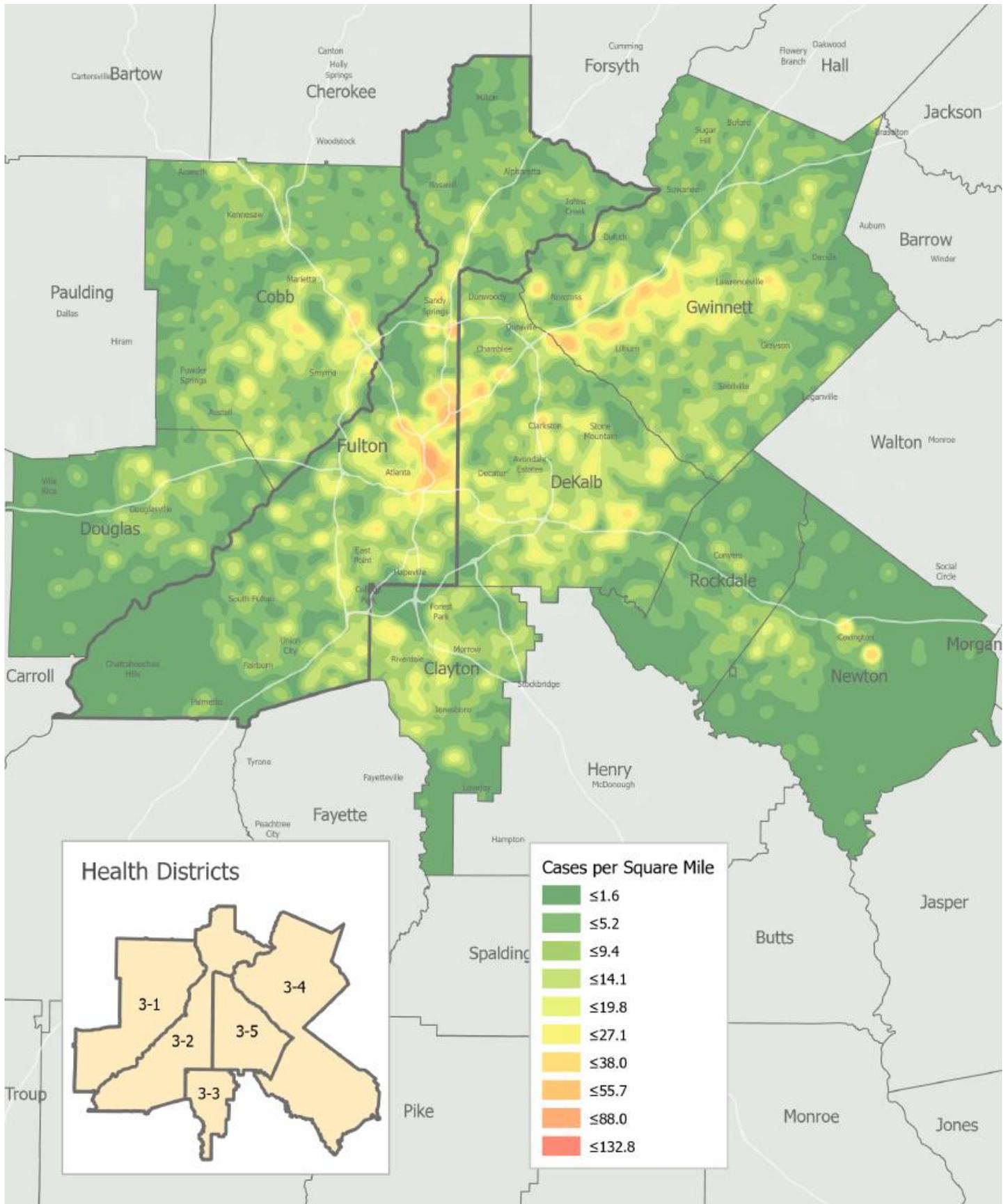
**Fig. 10. Trends in Geographic distribution of COVID -19 Diagnoses in Fulton County by 14-day periods (Mar 02 - Jul 05, 2020)**
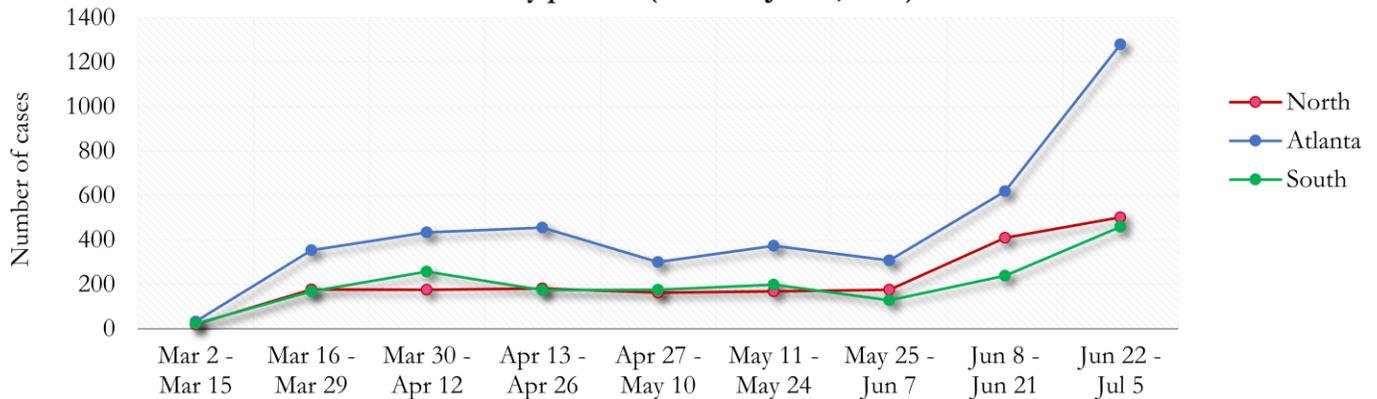
Atlanta metro has consistently accounted for the majority of newly diagnosed cases in Fulton County.

*North -Includes all Fulton County cities north of Atlanta metro (Alpharetta, Milton, Johns Creek, Roswell, Sandy Springs, Mountain Park)
*South - Includes all Fulton County cities south of Atlanta (College Park, Chattahoochee Hills, East Point, Hapeville, Palmetto, South Fulton, Fairburn, and Union City)

Fig. 11. Trends in Gender Distribution of COVID -19 Diagnoses in Fulton County by 14-day periods (Mar 02- Jul 05, 2020)
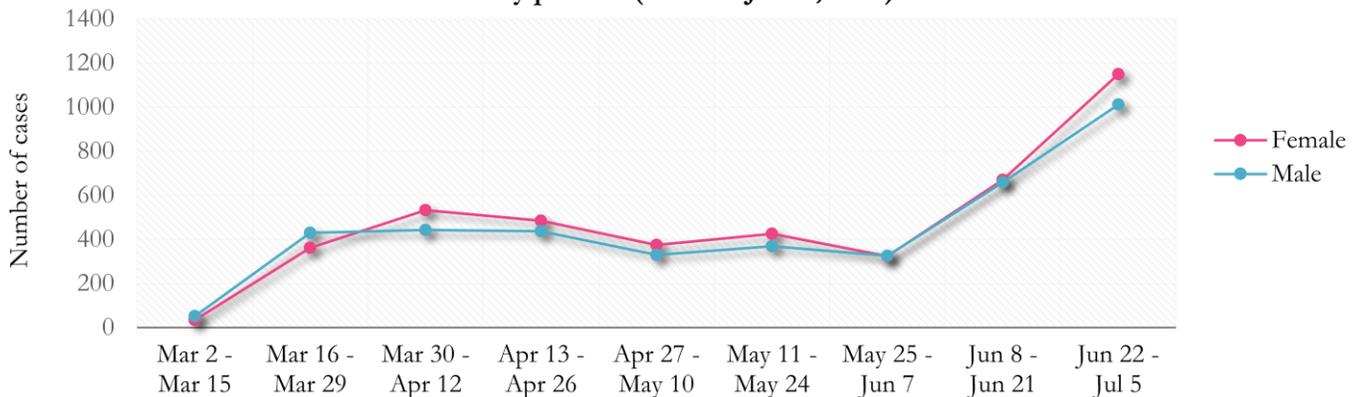
Fig. 12. Trends in Racial Distribution of COVID -19 Diagnoses in Fulton County by 14-day periods (Mar 02 - Jul 05, 2020)
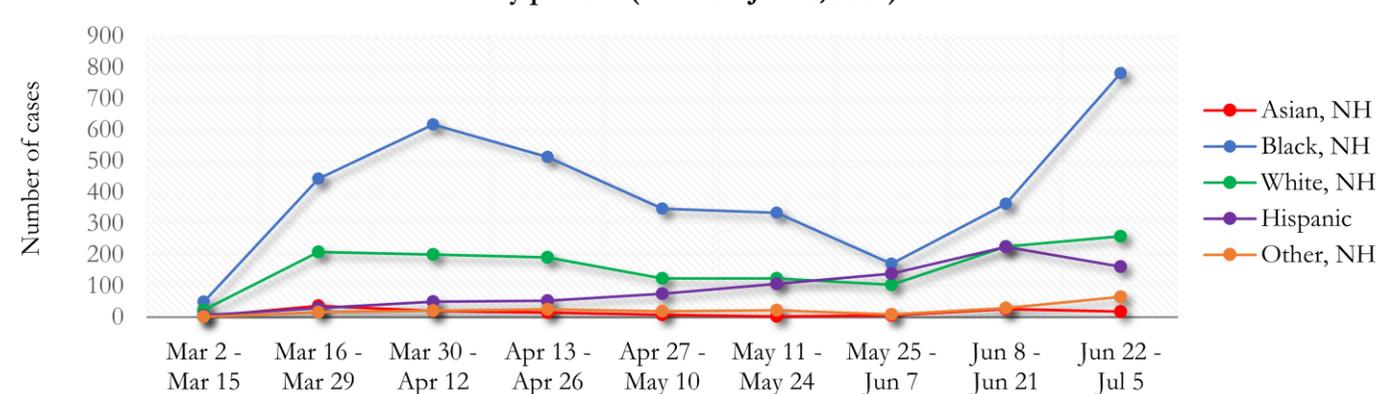
About 30% of COVID cases are missing data on patient race and ethnicity. Of cases with race and ethnicity reported, majority are Black non-Hispanic, followed by a smaller number of cases reporting White (non-Hispanic and Hispanic) race.

Fig. 13. Racial Distribution of COVID -19 Cases in Fulton County by 14-day periods (Mar 02- Jul 05, 2020)
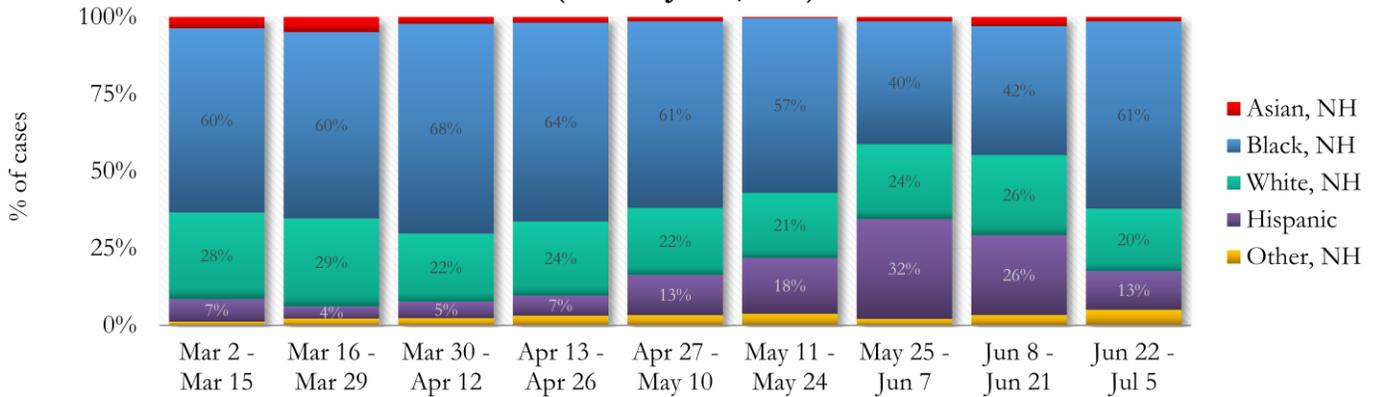
Fig. 14. Trends in Age Distribution of COVID -19 Diagnoses in Fulton County by 14-day periods (Mar 02 - Jul 05, 2020)
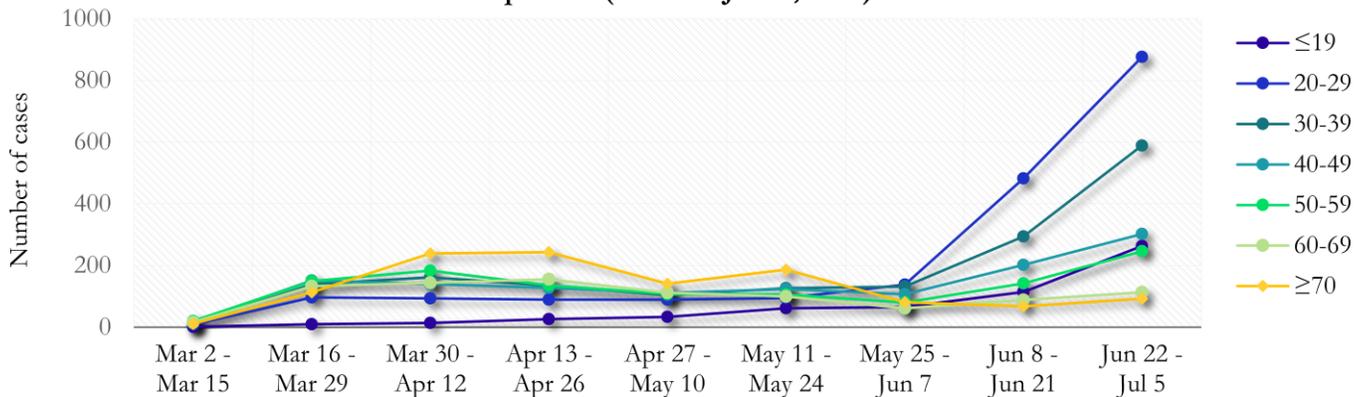
Earlier (March-May 2020) large proportions of reported cases were among persons aged 60 and older. However, starting in June, a much higher number of cases were among persons aged between 20-29 years.

Fig. 15. Age Distribution of COVID -19 Cases in Fulton County by 14-day periods (Mar 02 - Jul 05, 2020)
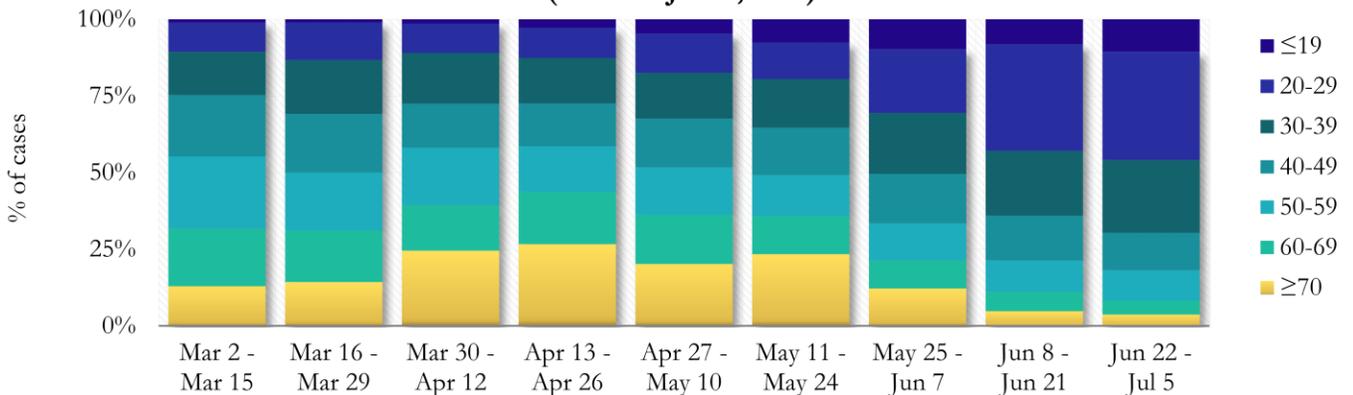
Fig. 16. New COVID-19 Cases in Fulton County Daily (Averaged over 7 days)
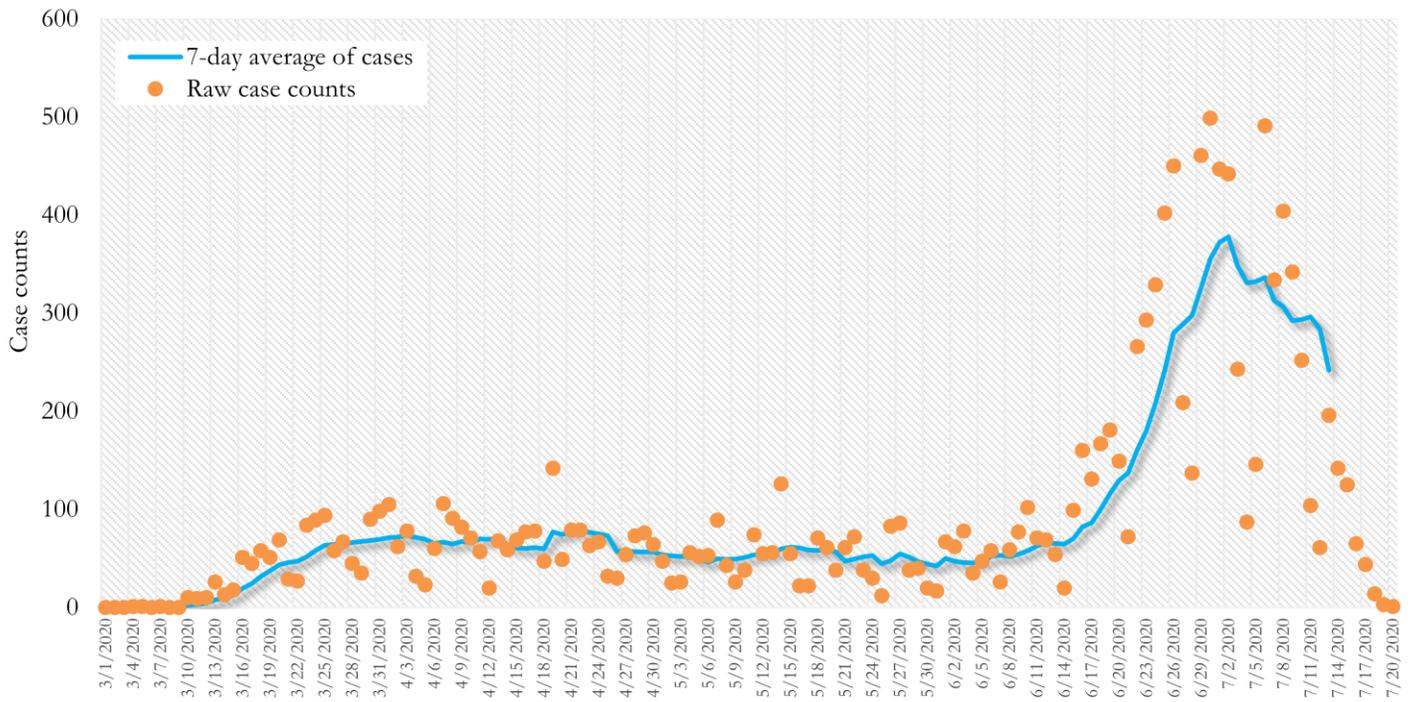
Date of collection of first positive sample used (report creation date used where sample collection date is missing).

Fig. 17. New COVID-19 Cases in Georgia State Daily (Averaged over 7 days)
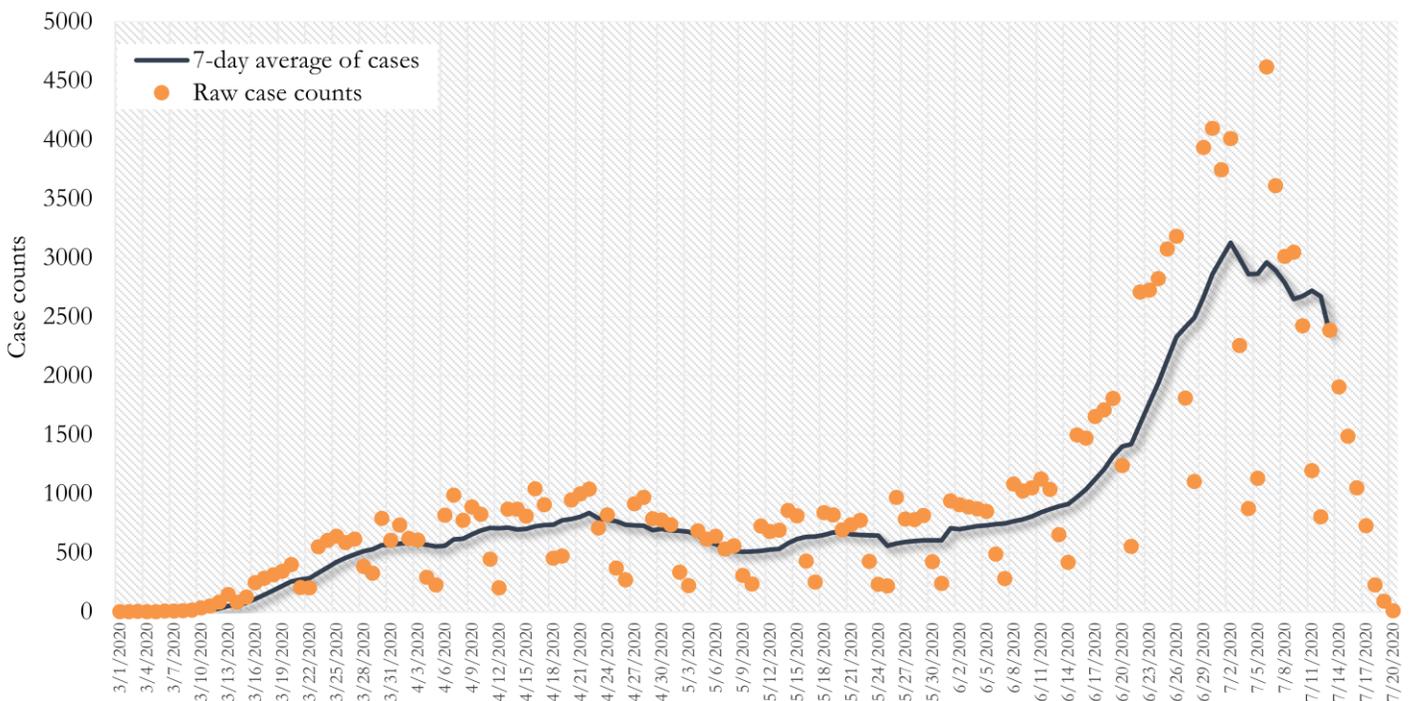
Date of collection of first positive sample used (report creation date used where sample collection date is missing).

Fig. 18. COVID-19 Hospitalizations in Fulton County Daily (Averaged over 7 days)
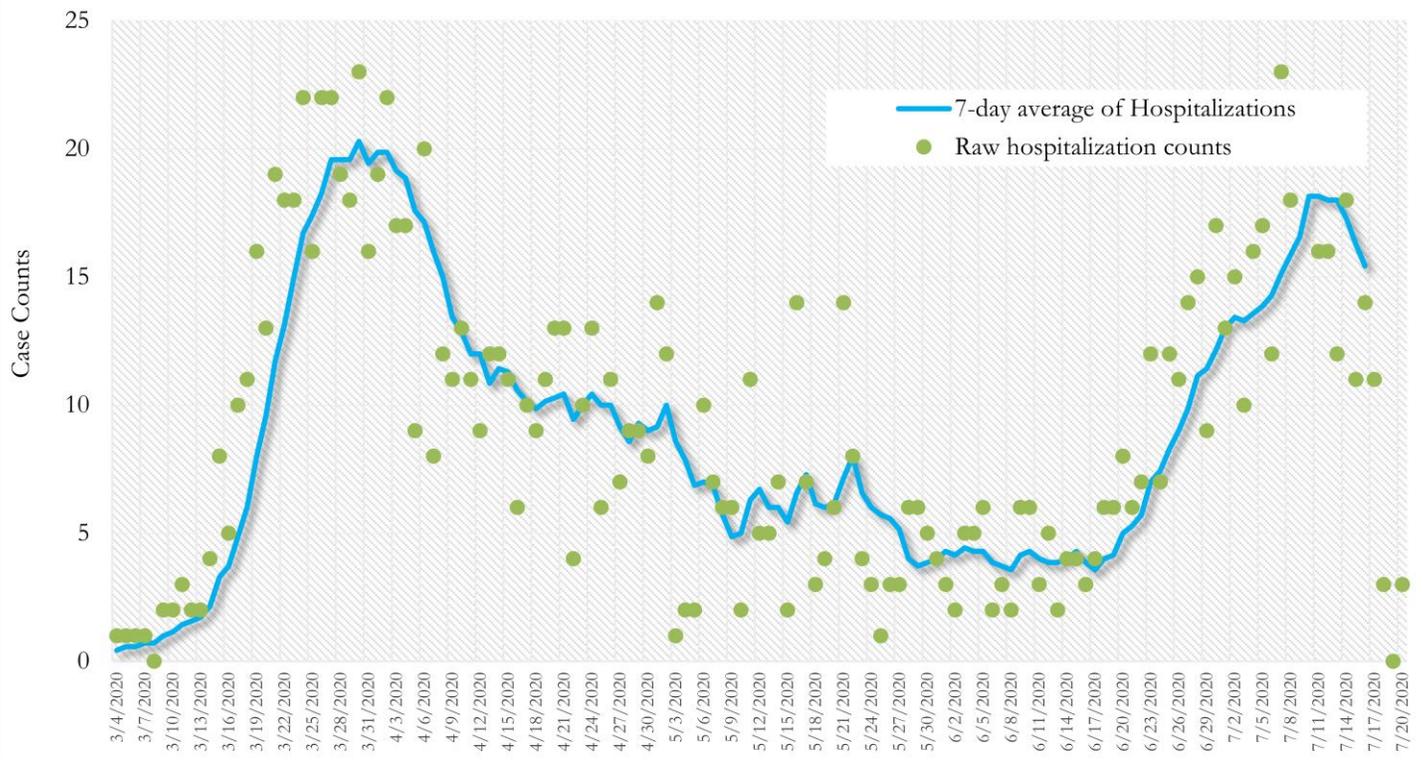
Reported date of hospital admission used.

Fig. 19. COVID-19 Hospitalizations in Georgia State Daily (Averaged over 7 days)
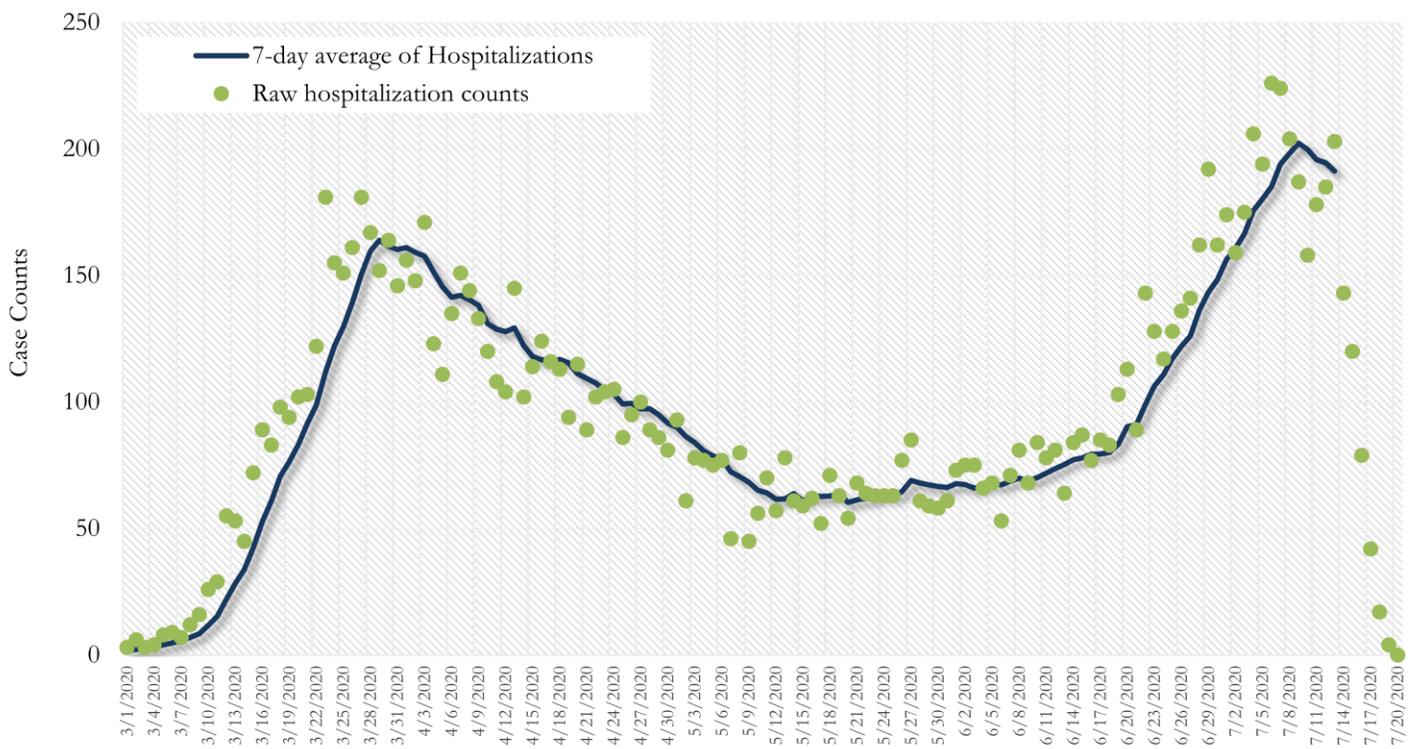
* *Reported date of hospital admission used.*

Fig. 20. COVID-19 Deaths in Fulton County Daily (Averaged over 7 days)
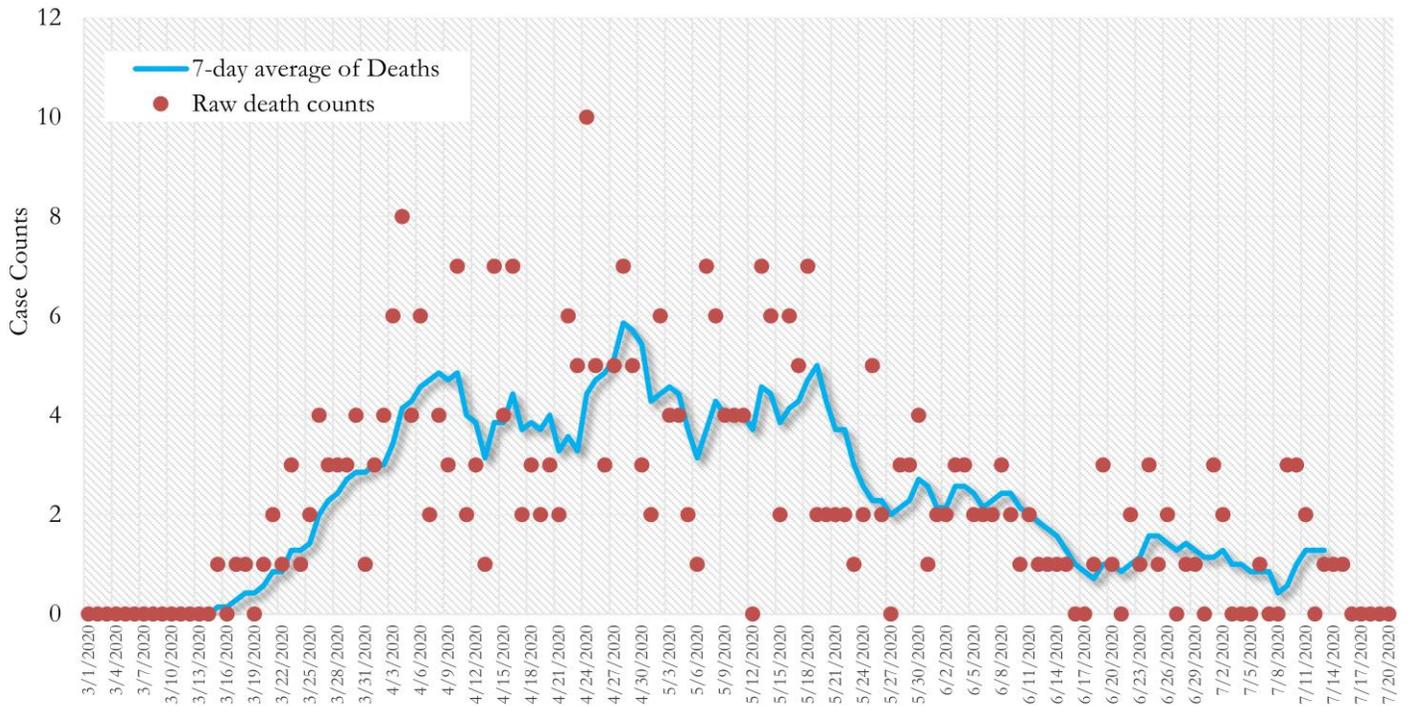
Reported date of death used.

Fig. 21. COVID-19 Deaths in Georgia State Daily (Averaged over 7 days)
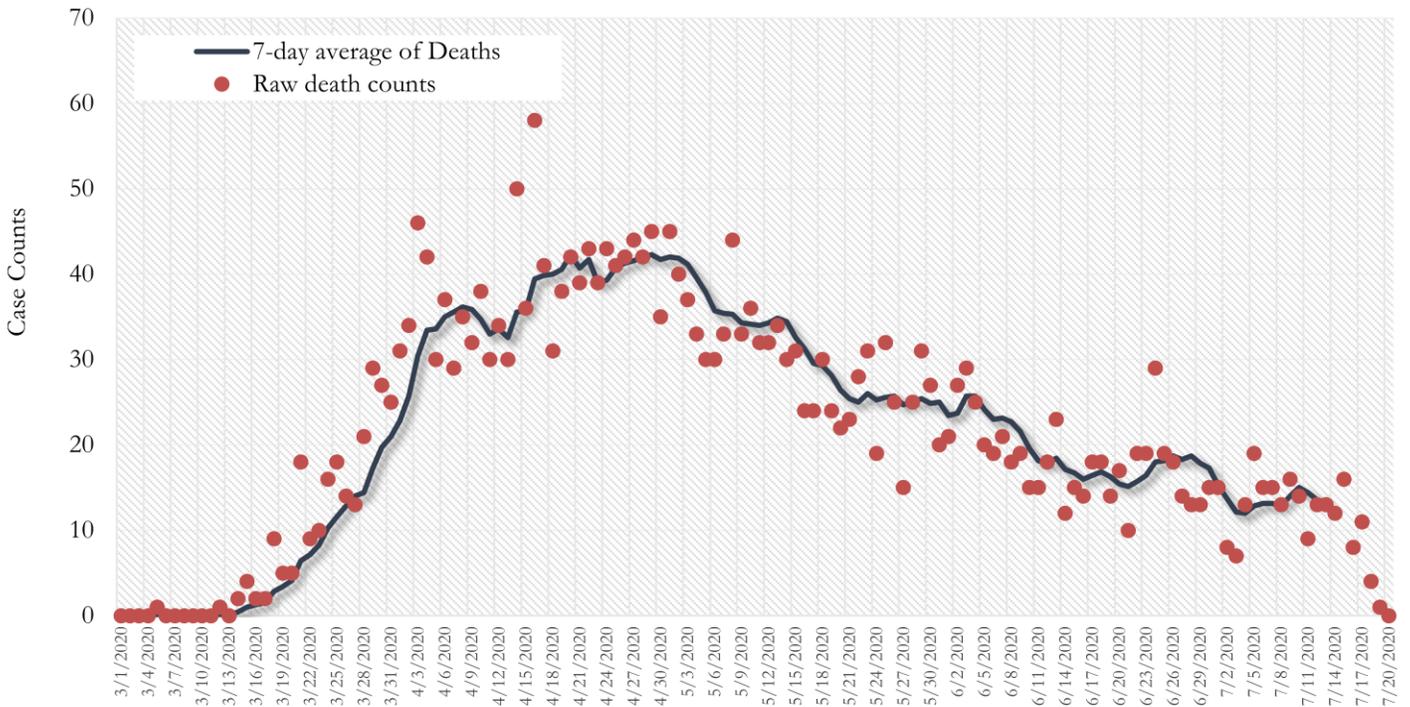
* Reported date of death used.

COVID-19 IN LONG-TERM CARE FACILITIES IN FULTON

Older persons (aged 65 years and older) and persons who live in nursing homes or other long-term care facilities seem to be at higher risk for developing more serious complications from COVID-19. Extra precautions are recommended for individuals within this risk groups – Centers for Disease Control and Prevention (CDC 2020) https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/people-at-higher-risk.html

Fig. 22. COVID-19 Diagnoses and Deaths in Fulton County Associated with Long-Term Care Facilities

LTCF → Long-term Care Facility (Incudes residents and Staff)
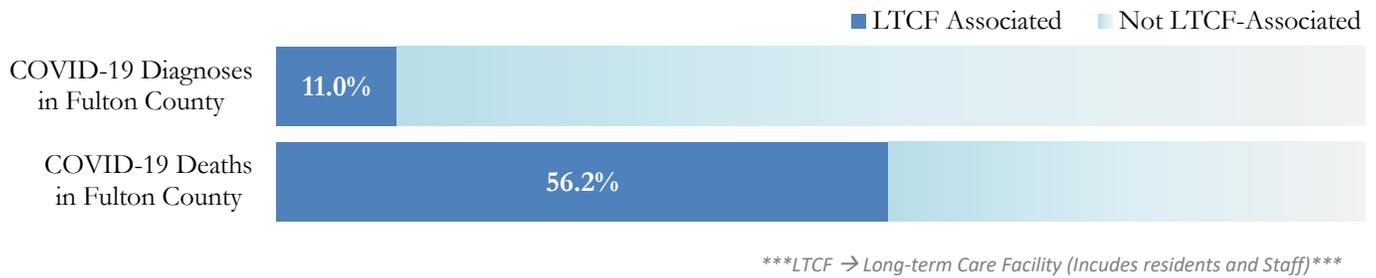
COVID-19 POSITIVITY:

Fig. 23. COVID-19 Positivity at 54 reporting Long-Term Care Facilities (LTCF) in Fulton County
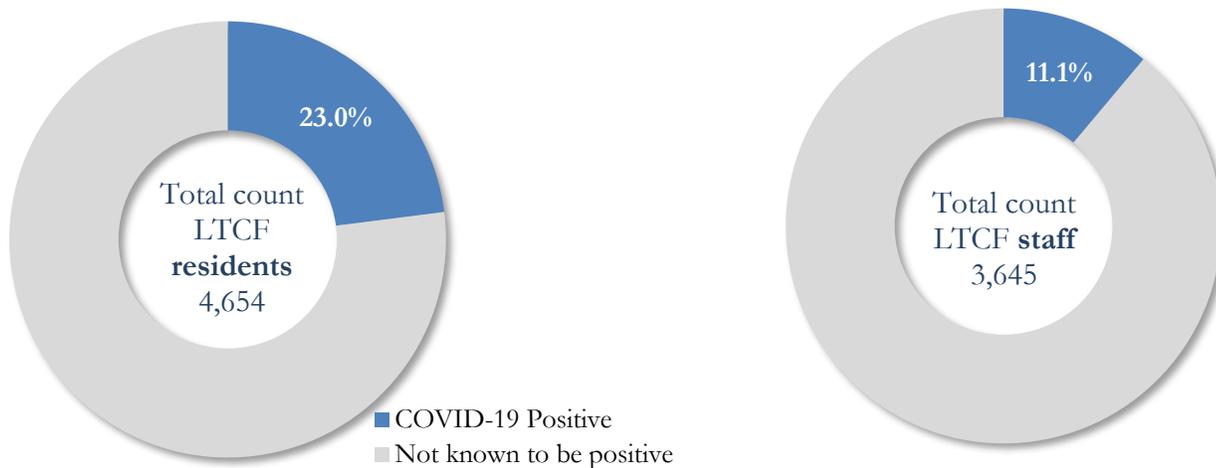
COVID-19 Cases, Hospitalizations, and Deaths among 54 reporting Long-Term Care Facilities in Fulton County

	LTCF Residents (n=4,654)			LTCF Staff (n=3,645)		
	Cases	Hospitalizations	Deaths	Cases	Hospitalizations	Deaths
Average (count per fac.)[1]	19	5	3	7	1	<0.1
Median (count per fac.)[1]	3	3	0	4	0	0
Lowest counts	0	0	0	0	0	0
Highest counts	136	48	29	41	8	1
Total Count	1070 (23.0%)[a]	278 (25.5%)[b]	189 (17.7%)[b]	305 (11.1%)[a]	28 (7.2)[b]	2 (0.5%)[b]

COVID-19 TESTING AND POSITIVITY IN FULTON

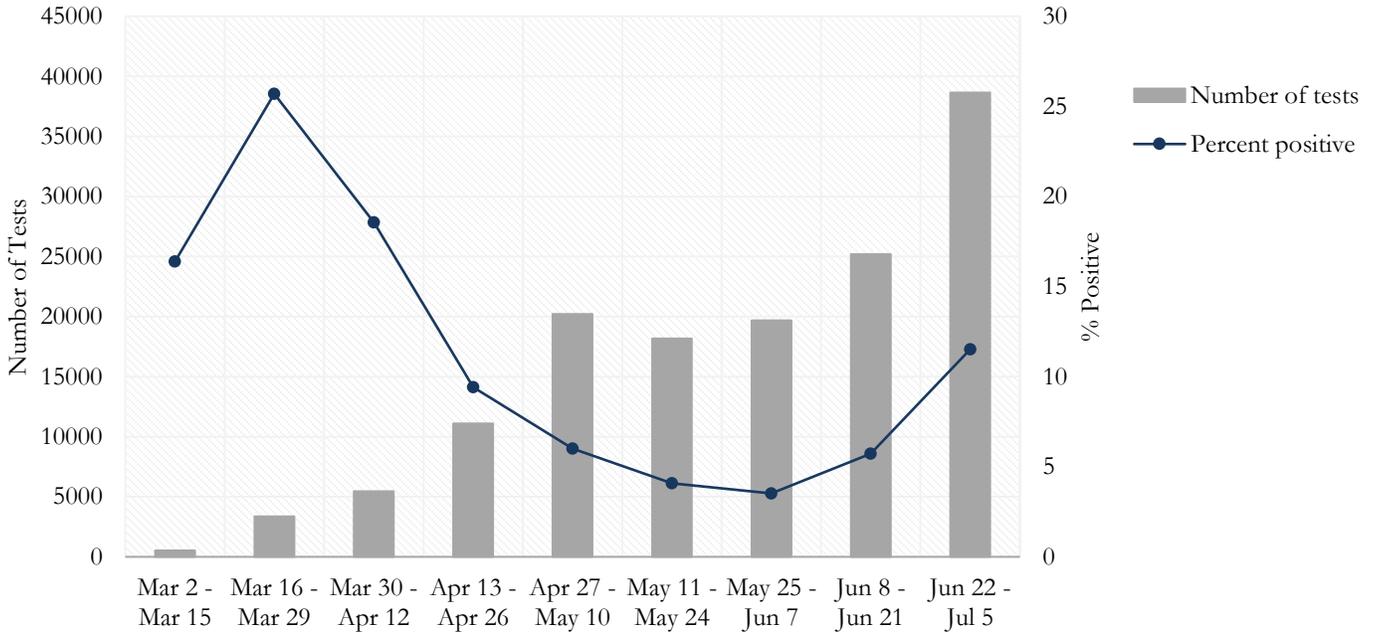Fig. 24. Trends in Positive COVID-19 Tests in Fulton County by 14-day Periods

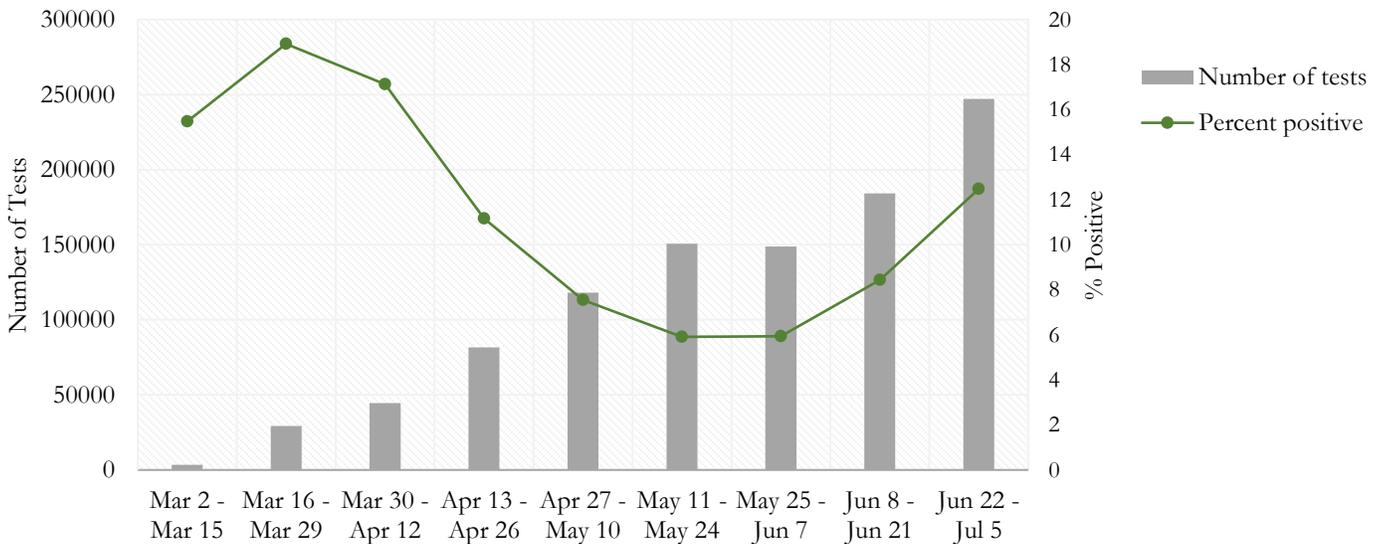Fig. 25. Trends in Positive COVID-19 Tests in Georgia by 14-day Periods

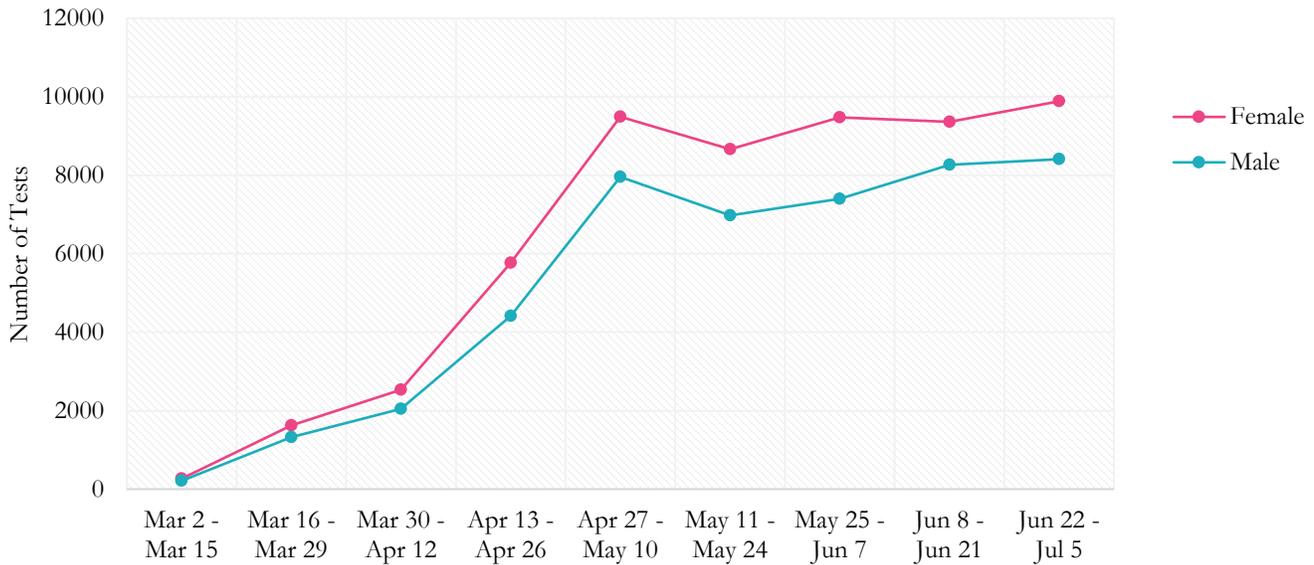**Fig. 26. COVID-19 Tests by Gender in Fulton County by 14-day Periods**

Fig. 27. Percent Positive COVID-19 Tests by Gender in Fulton County by 14-day Periods

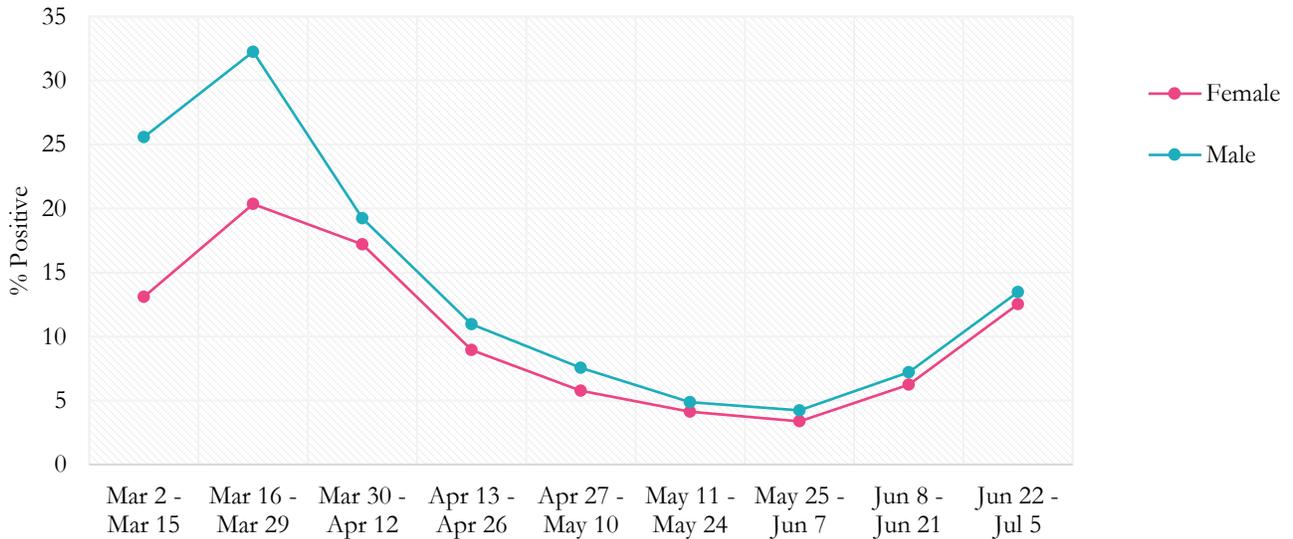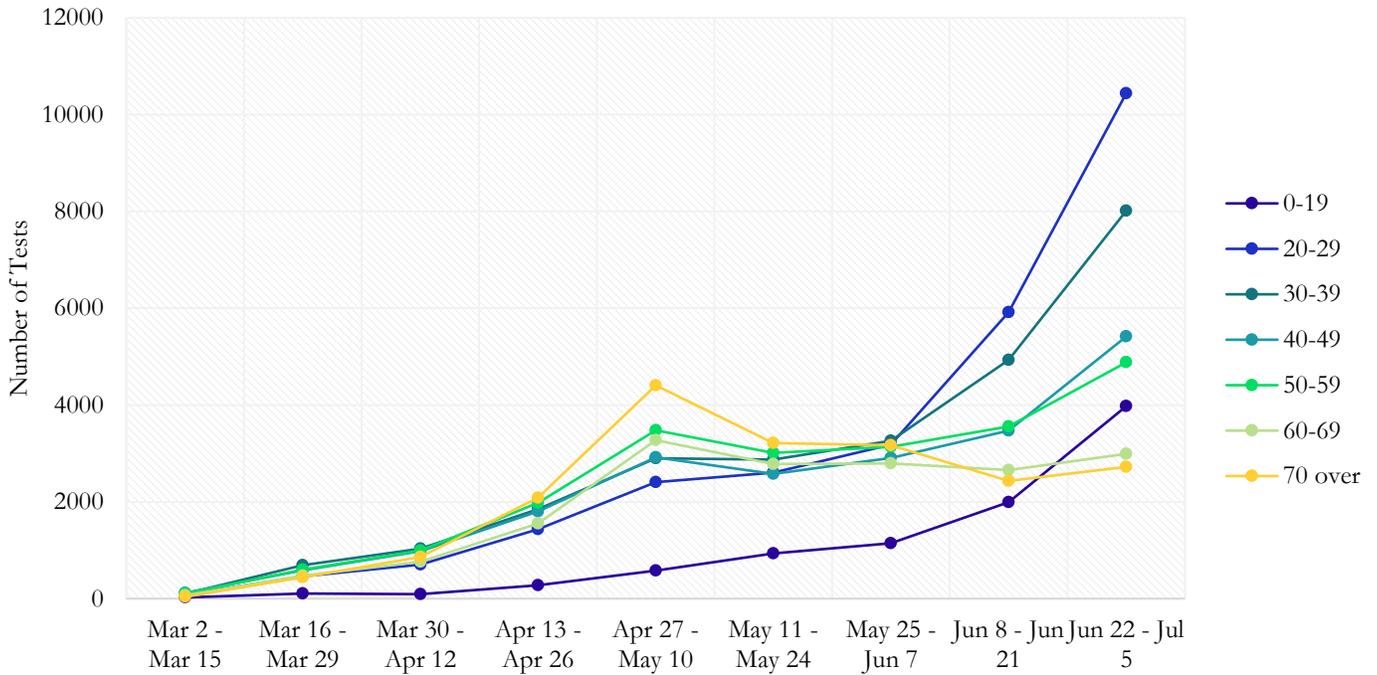**Fig. 28. COVID-19 Tests by Age in Fulton County by 14-day Periods**

Fig. 29. Percent Positive COVID-19 Tests by Age in Fulton County by 14-day Periods