

Fulton County Board of Health Epidemiology Report

COVID-19 Diagnoses – 8/24/2020

SUMMARY

- As of August 24, 2020, Fulton County has recorded 23,782 cases of the 2019 novel coronavirus (COVID-19) and 490
- Of 2,347 new diagnoses made between August 4 and August 17, the central portion of the county (Atlanta metro) accounted for 36% while the northern and southern parts accounted for 30% and 21% respectively.
- By city, new COVID-19 diagnoses rates range from 147.1 per 100,000 persons (Johns Creek) to 502.2 per 100,000 persons (Palmetto). [Fulton County Diagnoses Rates (per 100,000 persons): Cumulative – 2235.3; Incident –220.6]. See map showing incident case rate by ZIP code on Pg.4.
- Among all persons diagnosed with COVID-19 in Fulton County, 8.7% required hospitalization and 2.1% died.
- Residents and staff of long-term care facilities account for 7.6% of COVID-19 diagnoses and 43.9% of COVID-19 deaths in Fulton County.

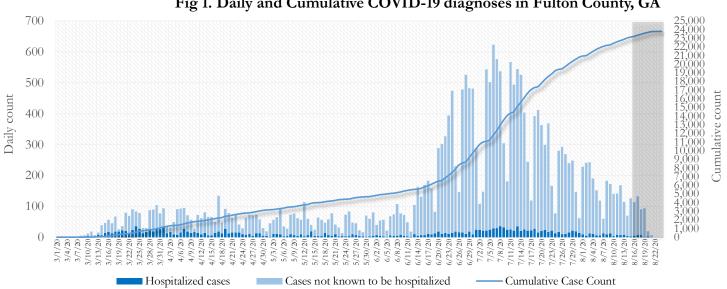


Fig 1. Daily and Cumulative COVID-19 diagnoses in Fulton County, GA

*Counts shown reflect the number of confirmed cases as of 9:00am on 8/24/20 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.

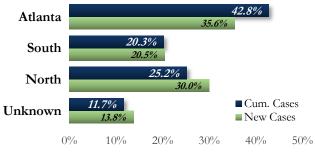
DISTRIBUTION OF COVID-19 DIAGNOSES BY REGION

New cases: 36% of the new COVID-19 cases diagnosed in the past 2 weeks occurred in Atlanta while 30% and 21% occurred in the Northern and Southern regions of the county respectively.

Fulton Region	% Cumulative	% New	
	count	cases*	
Atlanta	42.8%	35.6%	
North ¹	25.2%	30.0%	
South ²	20.3%	20.5%	
Unincorporated/Unknown	11.7%	13.8%	

¹Includes all Fulton County cities north of Atlanta metro (Alpharetta, Milton, Johns Creek, Roswell, Sandy Springs, Mountain Park) | 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 8/04/20 - 8/17/20).

Fig. 2. Distribution of COVID 19 cases by Region

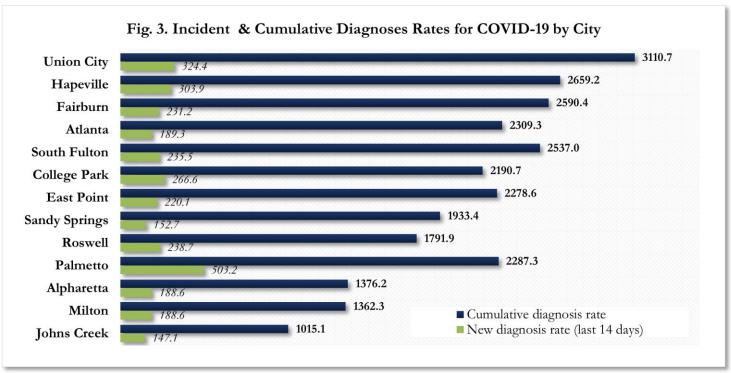


Percent of confirmed cases

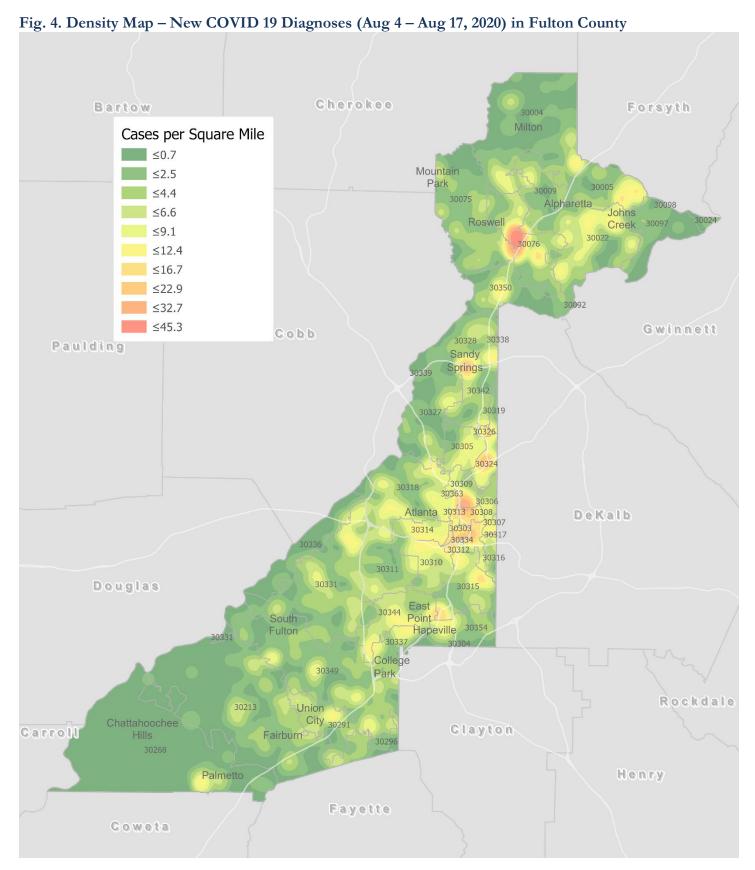
COVID-19 CASE COUNTS AND RATES BY CITY

	Prior (8/21/20)	Current Total (8/24/20)			New Cases (Period: 7/20/20 – 8/17/20) ¹			
	Count	Count	%	Cum. Rate ²	1 st 14 d. (7/20– 8/03)	Last 14 d. (8/04– 8/17)	% change ³	Rate ⁴ (Last 14 d).
Atlanta	10019	10188	42.8%	2309.3	1304	835	↓ 36.0%	189.3
South Fulton	2356	2413	10.1%	2537.0	362	224	↓ 38.1%	235.5
Sandy Springs	1998	2038	8.6%	1933.4	294	161	↓ 45.2%	152.7
Roswell	1653	1689	7.1%	1791.9	349	225	↓ 35.5%	238.7
East Point	787	797	3.4%	2278.6	146	77	↓ 47.3%	220.1
Johns Creek	826	849	3.6%	1015.1	157	123	↓ 21.7%	147.1
Union City	647	652	2.7%	3110.7	89	68	↓ 23.6%	324.4
Alpharetta	862	890	3.7%	1376.2	180	122	↓ 32.2%	188.6
Milton	504	520	2.2%	1362.3	87	72	↓ 17.2%	188.6
Fairburn	373	381	1.6%	2590.4	74	34	↓ 54.1%	231.2
College Park	301	304	1.3%	2190.7	48	37	↓ 22.9%	266.6
Palmetto	97	100	0.4%	2287.3	<10	22	↑ 144.4%	503.2
Hapeville	174	175	0.7%	2659.2	20	20	-	303.9
Mountain Park	5	5	0.0%	800.0	<10	<10	-	320.0
Chattahooche Hills	0	0	0.0%	-	-	-	-	-
Unknown	3180	2781	11.7%	-	459	320	-	

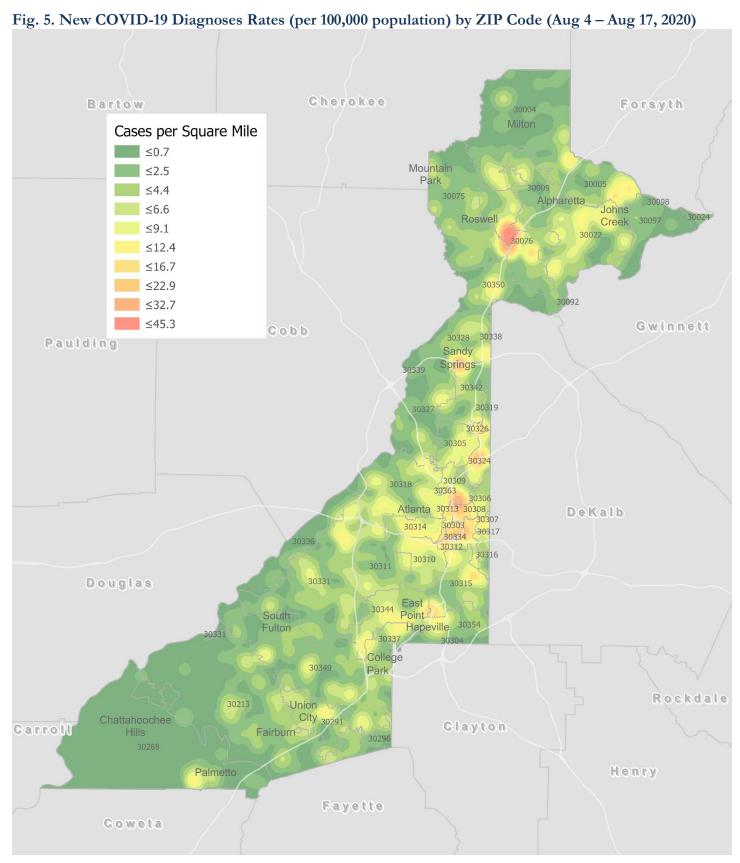
*New cases: Cases diagnosed in most recent 28 days (based on reported dates of positive sample collection). To allow for lag in reporting results of new diagnoses from samples collected in the most recent week, data used for incident diagnoses analyses were moved back by one week. *Cumulative diagnosis rate: Population estimates from US Census Bureau used to calculate cumulative diagnoses rate. All rates shown are per 100,000 persons. *3% 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 *(Incidence) Rate: Rate of new diagnoses in the last 14 day period preceding the immediate past week. **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: All data reported are preliminary and subject to change.



^{*}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.



<u>New COVID-19 cases:</u> 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 Aug 4^{th} and Aug 17^{th} , 2020 across Fulton County.



*Rates shown are per 100,000 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 the dates shown in map title.

COVID-19 CASE COUNTS BY ZIP CODE

	Prior (8/21/20)	Current To	Current Total (8/24/20)		New Cases (Period: 7/20/20 – 8/17/20) ¹			
	Count	Count	0/0	1st 14 days (Jul 20 – Aug 3)	Last 14 d. (Aug 4 – Aug 17)	% change ²		
All Fulton	22074	23782	100.0%	3562	2347	↓ 34.1%		
30331	1531	1555	6.5%	233	137	↓ 41.2%		
30318	1402	1418	6.0%	202	121	↓ 40.1%		
30349	1570	1608	6.8%	263	184	↓ 30.0%		
30213	914	929	3.9%	153	103	↓ 32.7%		
30315	712	733	3.1%	123	94	↓ 23.6%		
30344	728	737	3.1%	135	76	↓ 43.7%		
30311	688	695	2.9%	123	62	↓ 49.6%		
30342	999	1024	4.3%	112	66	J 41.1%		
30314	501	506	2.1%	60	40	↓ 33.3%		
30310	640	644	2.7%	87	56	↓ 35.6%		
30308	402	406	1.7%	39	25	↓ 35.9%		
30022	919	941	4.0%	190	134	↓ 29.5%		
30327	417	446	1.9%	62	47	↓ 24.2%		
30004	779	808	3.4%	134	116	↓ 13.4%		
30309	652	662	2.8%	68	50	↓ 26.5%		
30076	824	844	3.5%	182	147	↓ 19.2%		
30291	662	669	2.8%	93	60	↓ 35.5%		
30350	455	460	1.9%	77	43	J 44.2%		
30075	820	840	3.5%	171	92	↓ 46.2%		
30328	655	668	2.8%	120	55	↓ 54.2%		
30316	343	351	1.5%	60	28	↓ 53.3%		
30312	691	701	2.9%	52	49	↓ 5.8%		
30005	408	420	1.8%	76	61	↓ 19.7%		
30305	638	654	2.7%	74	37	↓ 50.0%		
30306	290	299	1.3%	37	25	↓ 32.4%		
30324	768	776	3.3%	74	60	↓ 18.9%		
30337	284	288	1.2%	45	34	↓ 24.4%		
30009	319	327	1.4%	76	30	↓ 60.5%		
30313	141	144	0.6%	14	16	↑ 14.3%		
30326	189	190	0.8%	19	13	↓ 31.6%		
30097	172	174	0.7%	30	13	↓ 56.7%		
30354	361	365	1.5%	66	33	↓ 50.0%		
30303	365	365	1.5%	45	21	↓ 53.3%		
30339	275	280	1.2%	53	33	↓ 37.7%		
30268	161	164	0.7%	23	30	† 30.4%		
30307	164	170	0.7%	35	24	↓ 31.4%		
30319	109	109	0.5%	12	<10	↓ 50.0%		
30336	77	77	0.3%	<10	<10	-		
30296	38	39	0.2%	<10	<10	-		
30363	55	55	0.2%	<10	<10	-		
30301	<10	<10	<0.1%	0	<10	-		
30345	38	38	0.2%	<10	<10	-		
31131	<10	<10	<0.1%	<10	0	↓ 100.0%		
30023	<10	<10	<0.1%	0	0	-		
30080	<10	<10	<0.1%	<10	0	↓ 100.0%		
30135	<10	<10	<0.1%	0	0	-		
30138	<10	<10	<0.1%	0	0	-		
30139	-	-	-	0	0	-		
30321	11	11	<0.1%	<10	0	↓ 100.0%		
30340	32	32	0.1%	<10	<10	-		

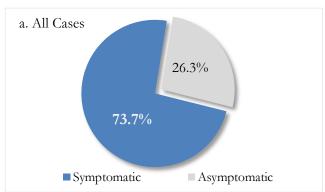
30341	38	38	0.2%	10	0	↓ 100.0%
30358	<10	<10	<0.1%	<10	0	↓ 100.0%
30374	31	31	0.1%	<10	<10	-
30606	<10	<10	<0.1%	0	0	-
31150	<10	<10	<0.1%	0	<10	-
30024	12	13	<0.1%	<10	<10	-
30098	-	-	-	0	0	-
30334	14	13	<0.1%	<10	0	↓ 100.0%
30338	156	157	0.7%	28	26	↓ 7.1%
Unknown	1293	869	3.7%	68	77	-

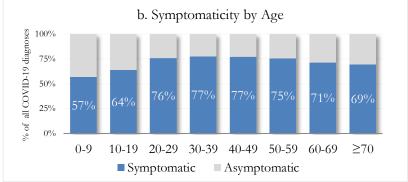
<u>New cases:</u> Cases diagnosed in most recent 28 days (based on reported dates of positive sample collection). To allow for lag in reporting results of new diagnoses from samples collected in the most recent week, data used for incident diagnoses analyses were moved back by one week. <u>Percent change:</u> 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. <u>Note:</u> 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 AII 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

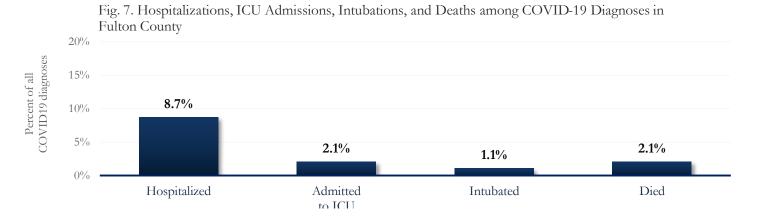
Fig. 6a & b. Proportion Reporting Symptoms in Fulton





***COVID-19 cases who have been case interviewed or had medical charts reviewed as at 8/24/20 only ***

COVID-19 HOSPITALIZATIONS, ICU ADMISSIONS AND DEATHS IN FULTON



DEMOGRAPHIC DISTRIBUTIONS – COVID 19 DIAGNOSES AND DEATHS

A. Distribution of COVID-19 diagnoses by gender, age, and race in Fulton County by Fulton Region

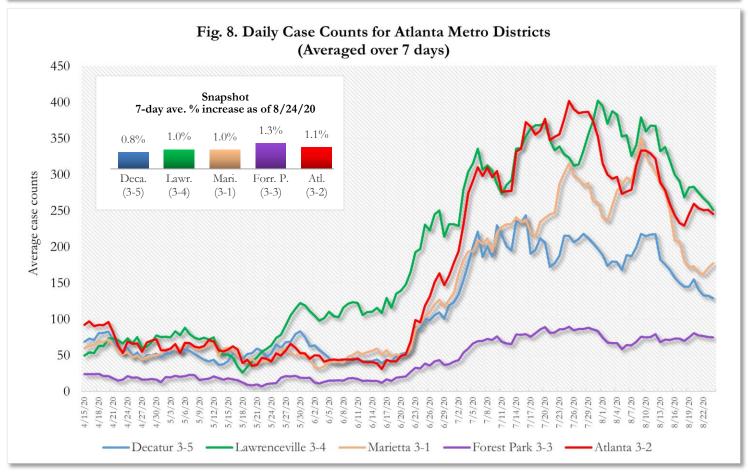
		North Fulton Cities ¹	Atlanta	South Fulton Cities ²	Unknown City	All Fulton
		Count (%)	Count (%)	Count (%)	Count (%)	Count (%)
Total COVID-19 cases		5991	10188	4822	2781	23782
Gende	r: Female	2944 (49.1%)	4899 (48.1%)	2619 (54.3%)	1371 (49.3%)	11833 (49.8%)
	Male	2791 (46.6%)	4641 (45.6%)	1953 (40.5%)	1259 (45.3%)	10644 (44.8%)
	Unknown	256 (4.3%)	648 (6.4%)	250 (5.2%)	151 (5.4%)	1305 (5.5%)
Age:	0-9	184 (3.1%)	182 (1.8%)	141 (2.9%)	74 (2.7%)	581 (2.4%)
	10-19	805 (13.4%)	617 (6.1%)	330 (6.8%)	180 (6.5%)	1932 (8.1%)
	20-29	1314 (21.9%)	2872 (28.2%)	959 (19.9%)	715 (25.7%)	5860 (24.6%)
	30-39	969 (16.2%)	2225 (21.8%)	985 (20.4%)	593 (21.3%)	4772 (20.1%)
	40-49	964 (16.1%)	1361 (13.4%)	870 (18.0%)	437 (15.7%)	3632 (15.3%)
	50-59	850 (14.2%)	1151 (11.3%)	671 (13.9%)	341 (12.3%)	3013 (12.7%)
	60-69	452 (7.5%)	790 (7.8%)	455 (9.4%)	219 (7.9%)	1916 (8.1%)
	≥70	445 (7.4%)	966 (9.5%)	398 (8.3%)	214 (7.7%)	2023 (8.5%)
	Unknown	<10	24 (0.2%)	13 (0.3%)	<10	53 (0.2%)
Race:	Asian, NH	132 (2.2%)	130 (1.3%)	16 (0.3%)	46 (1.7%)	324 (1.4%)
	Black, NH	533 (8.9%)	4228 (41.5%)	2664 (55.2%)	760 (27.3%)	8185 (34.4%)
	White, NH	1587 (26.5%)	1657 (16.3%)	175 (3.6%)	507 (18.2%)	3926 (16.5%)
	Hispanic	933 (15.6%)	553 (5.4%)	296 (6.1%)	265 (9.5%)	2047 (8.6%)
	Other, NH	218 (3.6%)	264 (2.6%)	86 (1.8%)	101 (3.6%)	669 (2.8%)
	Unknown	2588 (43.2%)	3356 (32.9%)	1585 (32.9%)	1102 (39.6%)	8631 (36.3%)

B. Distribution of COVID-19 deaths by gender, age, and race in Fulton County by Fulton Region

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		North Fulton Cities ¹	Atlanta	South Fulton Cities ²	Unknown City	All Fulton	
		Count (%)	Count (%)	Count (%)	Count (%)	Count (%)	
Total COVID-19 deaths		93	232	126	39	490	
Gender: Female		42 (45.2%)	103 (44.4%)	67 (53.2%)	23 (59.0%)	235 (48.0%)	
	Male	51 (54.8%)	129 (55.6%)	59 (46.8%)	16 (41.0%)	255 (52.0%)	
	Unknown	0	0	0	0	0	
Age:	≤ 29	0	<10	<10	0	<10	
	30-39	<10	<10	<10	<10	11 (2.2%)	
	40-49	<10	<10	<10	<10	18 (3.7%)	
	50-59	<10	20 (8.6%)	16 (12.7%)	<10	41 (8.4%)	
	60-69	10 (10.8%)	45 (19.4%)	31 (24.6%)	<10	89 (18.2%)	
	≥70	74 (79.6%)	152 (65.5%)	69 (54.8%)	32 (82.1%)	327 (66.7%)	
	Unknown	0	0	0	0	0	
Race:	Asian, NH	<10	<10	<10	<10	<10	
	Black, NH	17 (18.3%)	194 (83.6%)	108 (85.7%)	20 (51.3%)	339 (69.2%)	
	White, NH	69 (74.2%)	26 (11.2%)	11 (8.7%)	16 (41.0%)	122 (24.9%)	
	Hispanic	<10	<10	<10	<10	16 (3.3%)	
	Other, NH	0	<10	<10	0	<10	
	Unknown	0	<10	0	0	<10	

¹Includes all Fulton County cities north of Atlanta metro (Alpharetta, Milton, Johns Creek, Roswell, Sandy Springs, Mountain Park) ²Includes all cities south of Atlanta (College Park, Chattahoochee Hills, East Point, Hapeville, Palmetto, South Fulton, Fairburn, Union City). Note: All data reported are preliminary and subject to change.

COVID-19 CASE TRENDS IN FULTON AND SURROUNDING DISTRICTS

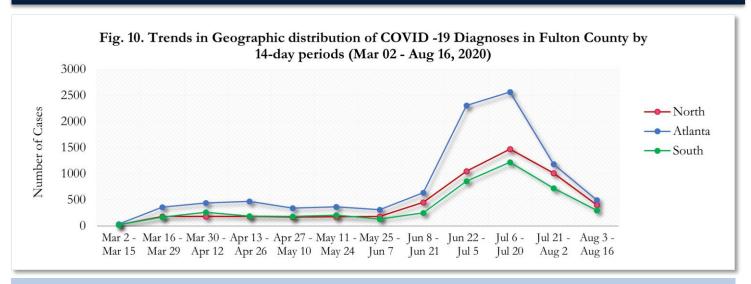


^{*}Graph shows the average number of cases calculated from the daily cumulative case counts in the metro Atlanta districts. Increases in daily cumulative case counts may include cases diagnosed earlier during the pandemic but were only recently reported to the state as cases diagnosed belonging to these districts.

Hall Forsyth Bartow Cherokee Jackson 761K Barrow Paulding Gwinnett Oconee Walton ulton DeKalb Douglas Rockdale Morgan Clayton Newton Carroll Henry Favette **Health Districts** Cases per Square Mile ≤1.7 ≤3.5 Jasper ≤5.6 Spalding 3-4 ≤7.8 3-1 ≤10.4 3-5 ≤13.5 ≤17.8 ≤23.9 Troup ≤31.9 Jones Pike onroe ≤47.2 Upsan

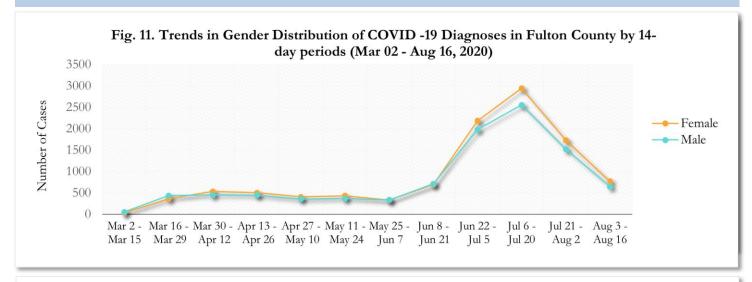
Fig. 9. COVID-19 Cases in Fulton County and Surrounding Districts (Aug 4 – Aug 17, 2020)

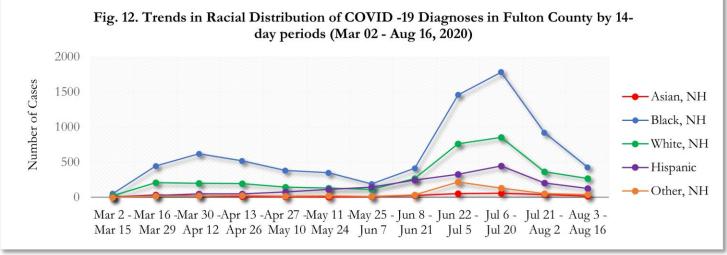
TRENDS IN COVID-19 CASES AMONG DEMOGRAPHIC GROUPS (14 DAY PERIODS)



Atlanta metro has consistently accounted for the majority of newly diagnosed cases in Fulton County.

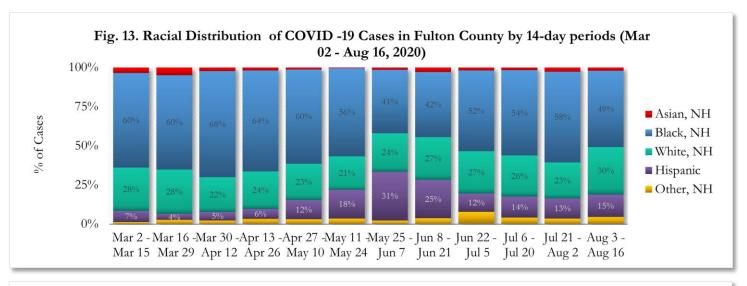
^{*}South - Includes all Fulton cities south of Atlanta (College Park, Chattahoochee Hills, East Point, Hapeville, Palmetto, South Fulton, Fairburn, and Union City)

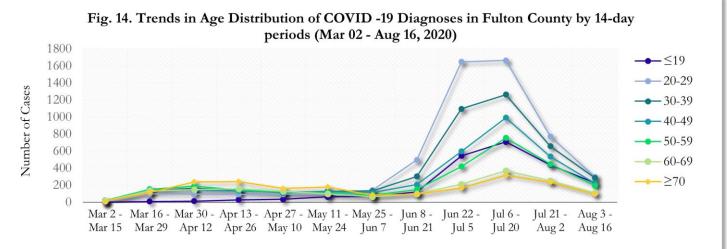




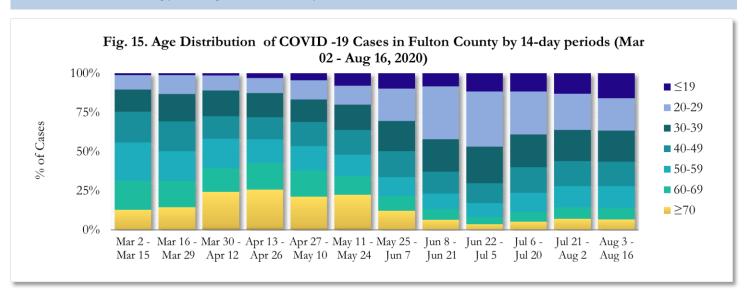
About 38% of COVID cases are missing data on patient race and ethnicity. Of cases with race and ethnicity reported, majority are Black non-Hispanic, followed by a smaller number of cases reporting White (non-Hispanic and Hispanic) race.

^{*}North -Includes all Fulton cities north of Atlanta metro (Alpharetta, Milton, Johns Creek, Roswell, Sandy Springs, Mountain Park)

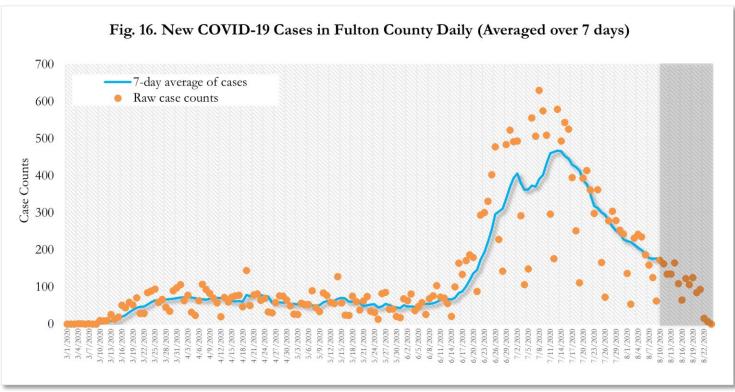




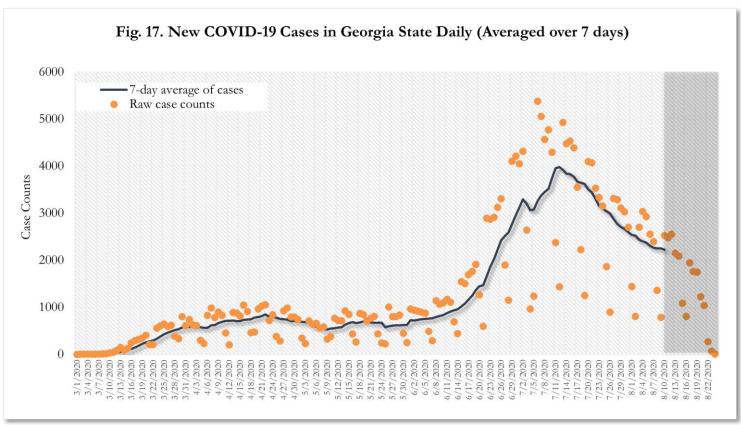
Earlier (March-May 2020) large proportions of reported cases were among persons aged 60 and older. However, starting in June, a much higher number of cases were among persons aged between 20-29 years.



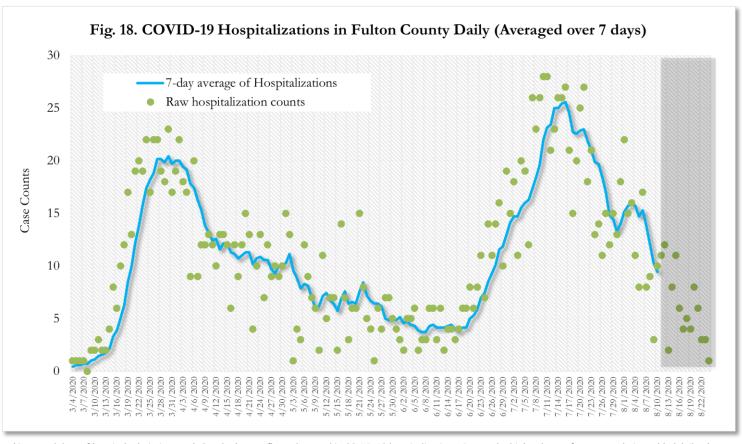
TRENDS IN COVID-19 CASES, HOSPITALIZATIONS AND DEATHS (7-DAY MOVING AVE.)



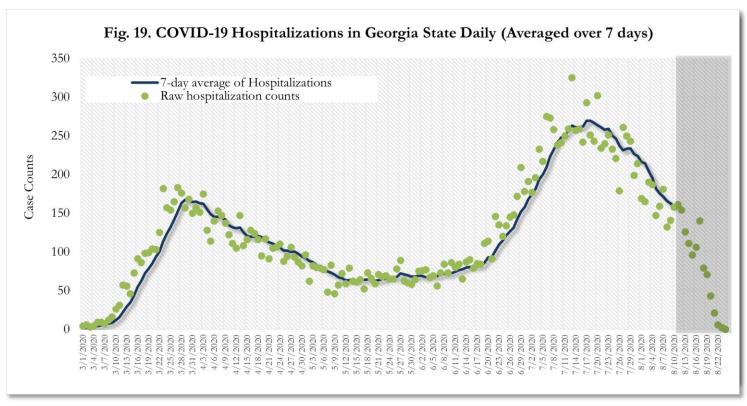
^{*}Date of collection of first positive sample used (report creation date used where sample collection date is missing). Graph above reflects the trend in COVID-19 diagnosis. Due to the high volume of testing in recent weeks, there have been delays in reporting lab results. Thus, the trend is subject to change as more lab results get added to the state surveillance database.



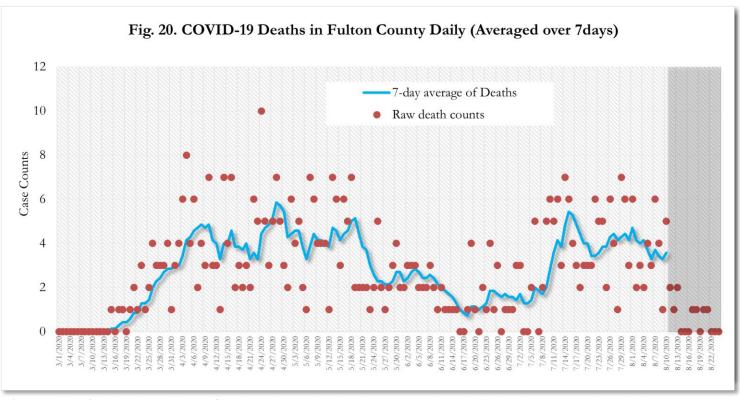
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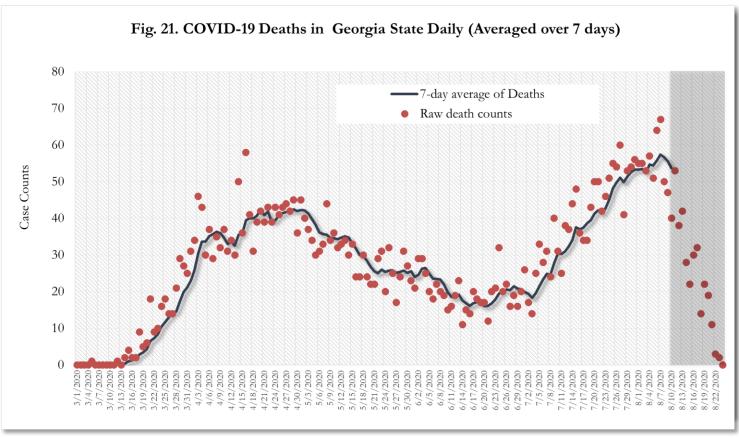
^{*}Reported date of hospital admission used. Graph above reflects the trend in COVID-19 hospitalizations. Due to the high volume of new cases being added daily, there have been delays in reporting hospitalization data. Thus, the trend is likely to change as more hospitalization data is reported in the state surveillance database.



^{*}Reported date of hospital admission used. Graph above reflects the trend in COVID-19 hospitalizations. Due to the high volume of new cases being added daily, there have been delays in reporting hospitalization data. Thus, the trend is likely to change as more hospitalization data is reported in the state surveillance database.



^{*} Reported date of death used. Graph above reflects the trend in deaths attributed to COVID-19. The trend is likely to change as more data on deaths among persons with COVID-19 is reported in the state surveillance database.

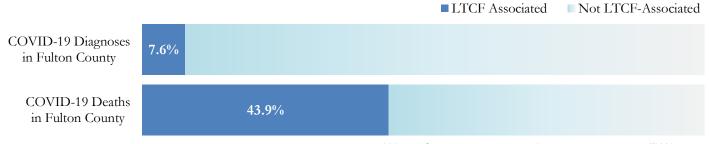


^{*}Reported date of death used. Graph above reflects the trend in deaths attributed to COVID-19. The trend is likely to change as more data on deaths among persons with COVID-19 is reported in the state surveillance database.

COVID-19 IN LONG-TERM CARE FACILITIES IN FULTON COUNTY

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

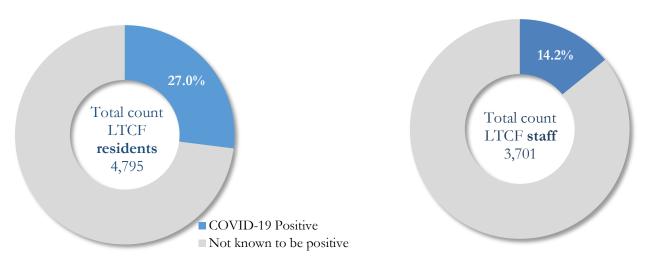
Fig. 22. COVID-19 Diagnoses and Deaths in Fulton County Associated with Long-Term Care Facilities



LTCF \rightarrow Long-term Care Facility (Incudes residents and Staff)

COVID-19 POSITIVITY:

Fig. 23. COVID-19 Positivity at 59 reporting Long-Term Care Facilities (LTCF) in Fulton County

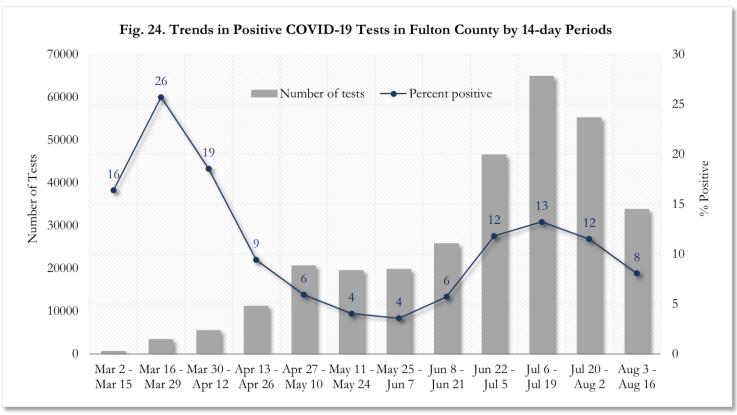


COVID-19 Cases, Hospitalizations, and Deaths among 59 reporting Long-Term Care Facilities in Fulton County

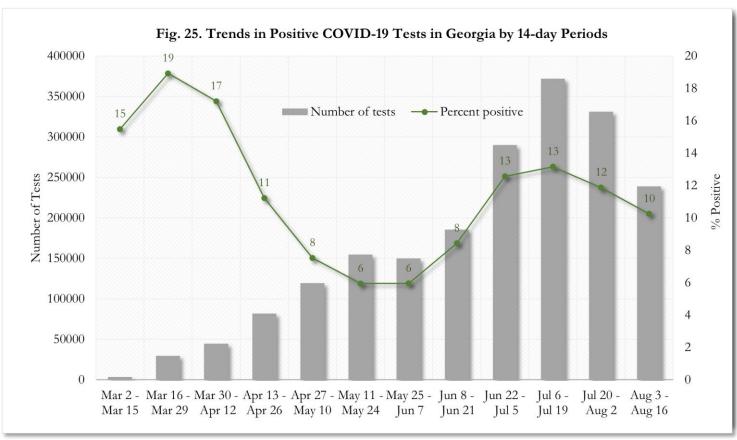
	LTC	CF Residents (n=4,	795)	LTCF Staff (n=3,701)			
	Cases Hospitalizations Deaths		Cases	Hospitalizations	Deaths		
Average (count per fac.)1	22	5	4	9	1	< 0.1	
Median (count per fac.)1	8	2	0	5	0	0	
Lowest counts	1	0	0	0	0	0	
Highest counts	136	48	29	62	8	2	
Total Count	1294 (27.0%) ^a	294 (22.7%) ^b	210 (16.2%) ^b	524 (14.1%) ^a	30 (5.7%) ^b	5 (<1.0%)b	

^a Percentage shown reflects proportion of total residents/staff tested who were positive (i.e. COVID-19 Positivity). | ^b Percentages shown are proportions of persons residents/staff diagnosed with COVID-19 who were hospitalized or died after diagnoses.

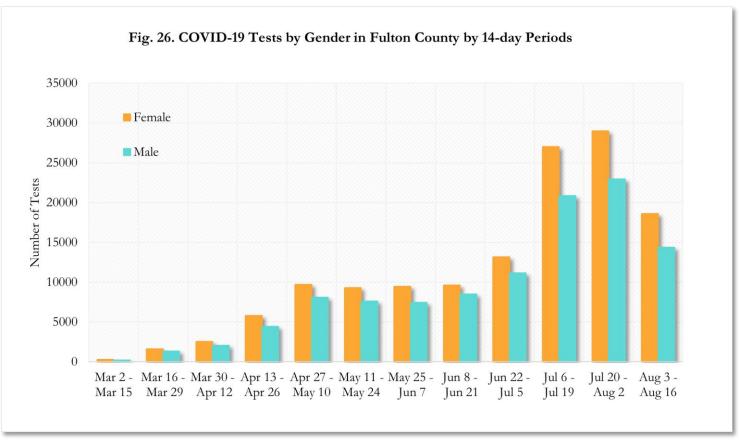
COVID-19 TESTING AND POSITIVITY IN FULTON COUNTY



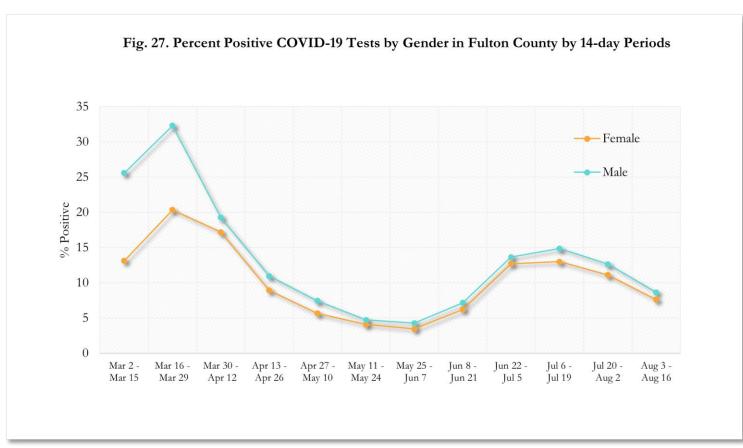
*Data on Polymerase Chain Reaction (PCR) tests only included.



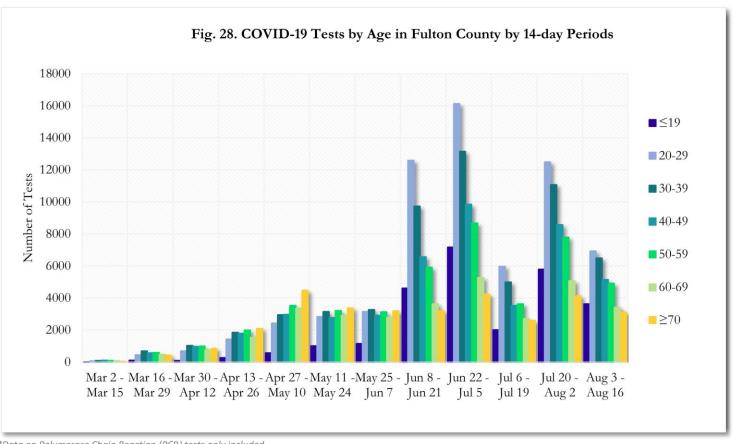
^{*}Data on Polymerase Chain Reaction (PCR) tests only included.



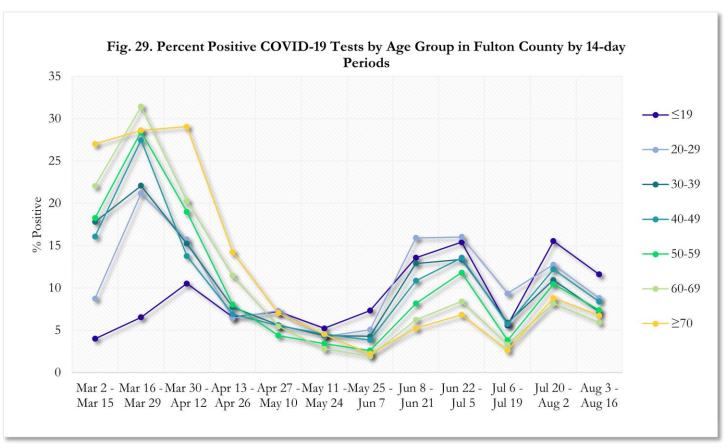
^{*}Data on Polymerase Chain Reaction (PCR) tests only included.



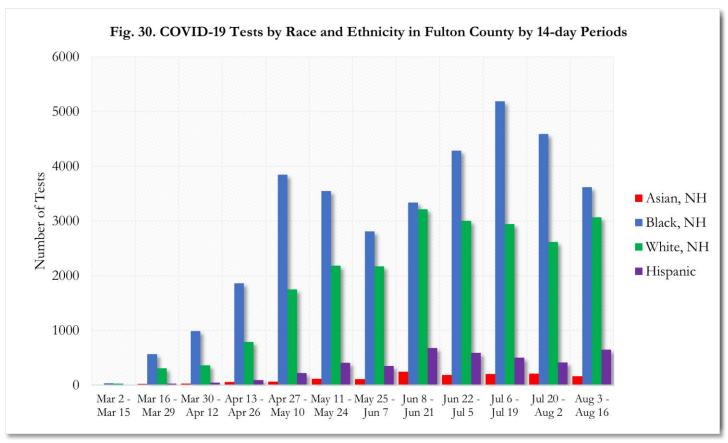
^{*}Data on Polymerase Chain Reaction (PCR) tests only included.



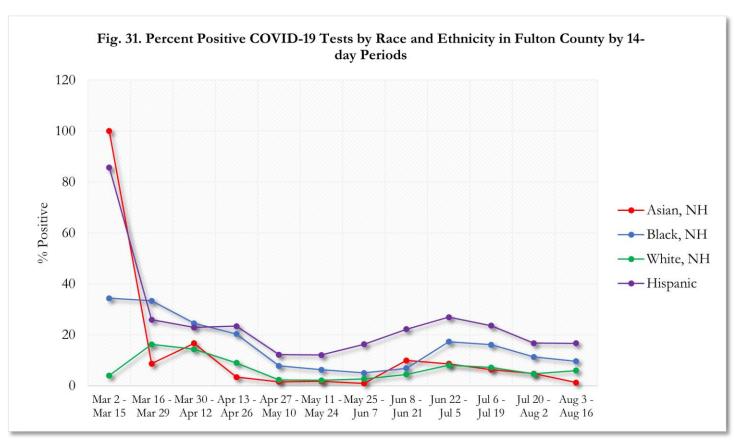
*Data on Polymerase Chain Reaction (PCR) tests only included.



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