# The impact of social distancing on COVID19 spread: State of Georgia case study supporting information

### S1 Appendix. Data sources, model description and model inputs

#### **Data sources**

Multiple sources of data were used throughout this study, including household type [1], household size [2], children status [2, 3], workflow [4], and population demographics [2]. The household type represents the percentage of households with a specific number of people that are designated as family. The children status is the percentage of households with at least a certain number of children. The workflow is the number of people who live in one census tract and work in another census tract. Our workflow data also includes people who live outside of Georgia but work in some census tract in Georgia. For the population demographics, we divided the population into five age categories: 0 year olds to 4 year olds, 5 year olds to 9 year olds, 10 year olds to 19 year olds, 20 year olds to 64 year olds, and 65+ year olds.

To ensure that certain groups interacted with certain other groups more, we imposed different probabilities based on the age of the person for the following parameters in the model: probability of hospitalization and probability of death. We were unable to find the proportion of patients of the specific age categories we desired for the following parameters in the literature: proportion of patients that develop symptoms after being exposed, proportion of patients that are asymptomatic after being exposed, and transmission rate.

County-level confirmed COVID19 infections and deaths were collected from The New York Times [2], based on reports from state and local health agencies. County-level hospitalizations were acquired from the Georgia Department of Health [2, 5].

#### Agent-based infection spread model

We adapted a simulation-based disease spread model assuming heterogeneous population mixing to predict the spread pattern of the disease geographically over a period of one year based on existing agent-based simulation models [6-9]. The underlying model was a Susceptible-Exposed-Infected-Recovered (SEIR) model that tracks the disease status of an individual as the disease spreads through a census-tract level contact network by interactions in households, workplaces, schools, and communities. Each population member was assumed to be an agent in the disease spread but with different interactions in the household, workplace and in the community, with different rates of transmission and with different rates for severe outcomes such as hospitalizations and deaths varying with the age group. The model assumed one million agents, that is, one agent corresponding to approximately 10 people in the population in Georgia. The path every person takes in the infection spread process starts at being susceptible (unless they start in the exposed phase initially). Anyone who is susceptible has a probability of being exposed based on age group (0-4, 5-9, 10-19, 20-64, 65+) and with whom a person interacts (peer group in school, peer group at work, etc.). Once someone is exposed, he/she will eventually become infectious, called the transition phase. There is some latency between when they are exposed and when they are in the transition phase. That duration is based on a Weibull distribution with a specified mean value (in number of days), called Exposed Duration in Table 1. The transition phase lasts 12 hours (0.5 days), the end of which marks when the person is symptomatic or asymptomatic, determined by a fixed probability, Probability of Symptomatic in Table 1. Note that for patients that eventually become symptomatic, the transition phase is the same as the presymptomatic duration. In the literature, the probability of being symptomatic has ranged from 30-90% [10]. It is important to note that the probability of symptomatic has been shown to have a significant impact on the predicted number of infections. For this reason, we have chosen to use 63%, which is in between the current best estimates of 60% and 65% provided by the CDC. The people who are asymptomatic will always recover but will remain infectious for a variable amount of time (in days) based on an exponential distribution with specified mean, called Symptomatic Duration in Table 1. Any person who is symptomatic can either recover or go to the hospital with an age-dependent probability defined by *Probability of Hospitalization* in Table 1. Any person who goes to the hospital can, again, either recover, or can die with an age-dependent probability named *Probability* of Death in Table 1. At each point where there are two options, there is an associated probability given in Table 1, Probability of symptomatic, Probability of Hospitalization, and Probability of death.

The *Probability of Symptomatic* in Table 1 is the probability that a pre-symptomatic infected patient will start showing symptoms. The *Probability of Hospitalization* in Table 1 is the probability that a symptomatic patient becomes hospitalized. The *Probability of Death* in Table 1 is the probability that a person who is hospitalized dies. The  $R_0$  in Table 1 is the *reproductive number*, which measures the transmission potential of the virus (i.e., the expected number of secondary infections caused by a typical infection). The  $\beta$  in Table

1 parameter represents the transmission rate. The Exposed Duration in Table 1 is the length of time (in days) between when a person was exposed to COVID19 from another infectious person and when this person becomes infectious, that is, when a person enters the transition phase. Note that a person becomes infectious when they enter the transition phase. The Transition *Duration* in Table 1 is the amount of time (in days) before an infected patient enters either the symptomatic or asymptomatic phase. Note that a patient will either become symptomatic or asymptomatic after the same amount of time (in days) through the transition phase. Also note that a person who goes from the transition phase to asymptomatic has no fundamental change. It is simply that this person will continue to never develop symptoms. The Symptomatic Duration in Table 1 is the amount of time (in days) it takes for a symptomatic person to become either hospitalized or recovered. The Hospitalized Duration in Table 1 is the amount of time (in days) a person who has been hospitalized will either become recovered or will die. The Symptomatic-Asymptomatic Duration Ratio in Table 1 is the ratio of duration times between symptomatic and asymptomatic, which is used to identify the average asymptomatic duration. The  $\theta$ parameter in Table 1 is the proportion of transmission that occurs at the transition or asymptomatic phase. The  $\omega$  parameter in Table 1 denotes the proportion of infections generated by individuals who are asymptomatic.

To seed the model, we utilized the confirmed infection data for Georgia. Since the infection data was stratified down to the county level and our initialization needed data down to the census tract level, we took the numbers provided for the county level from The New York Times [2] and applied the Huntington-Hill method of apportionment (the same method used to decide the number of seats that belong to each U.S. congressman

in the House of Representatives) [11] to apportion the number of COVID19 confirmed infections from May 15th to each of the census tracts in the state of Georgia. We used the distribution of the seeds from the confirmed infections to inform the community-level projections.

At the start of a simulation run, an initial infection was introduced randomly to agents from census tracts following the distributions of confirmed infections in Georgia. Any susceptible individual who becomes infected changes their disease status from susceptible to exposed. With pre-defined probabilities, the disease progresses within infected individuals and spreads to previously healthy individuals across the network. Once recovered from the disease, the individual remains in that state as there is no definitive evidence that it is possible to be re-infected with COVID19 after full recovery.

The code used was implemented using C++.

#### Capacity need estimation: description of model inputs

To calculate the daily number of hospital beds (general inpatient and ICU beds) needed, we take the needs from the previous day after removing patients that have been discharged and add the daily new hospitalizations by age group. The number of patients who are discharged is determined by taking a fraction of the hospitalized population, based on the mean value of the *Hospitalization Duration*. The *Hospitalized Duration* is defined as the average length of stay of a COVID19 patient in the hospital. Calculations for ICU bed needs are found by taking the ICU patients from the previous day after removing individuals that have been discharged from the ICU and adding a percentage of the daily new hospitalizations by age group, where percentages are determined by the

age-dependent Percentage of hospitalizations that require ICU from Table 1. The Percentage of hospitalizations that require ICU is the percentage of COVID19 hospital patients that have been transferred to the ICU because of the severity of their illness. This percentage has been considered to be age-dependent and the estimations for each age group are given in Table 1. The number of ICU patients that are discharged is a fraction of the current COVID19 ICU population, based on the ICU Duration from Table 1. The ICU Duration is the average length of stay in the ICU for a COVID19 patient. Lastly, the calculations for ventilator needs are determined by taking the ICU patients from the previous day that are on ventilation after removing the ICU patients who have stopped ventilation and adding a percentage of the daily new ICU patients, based on the Percentage of ICU patients that require ventilation from Table 1. The Percentage of ICU patients that require ventilation is defined as the percent of COVID19 patients in the ICU whose illness severity requires respiratory support through mechanical ventilation or ECMO services. The fraction of ventilation patients who are removed from ventilation services is calculated from the average length of time on ventilation for a COVID19 patient, referred to as Ventilation Duration in Table 1.

A map of the 14 coordination hospital regions of Georgia can be found at [12].

#### Calibration and validation of the model

SIP intervention at the state level in Georgia was not implemented on March 16th; however most of the businesses, profit and non-profit organizations, and governmental organizations have enacted various interventions to establish VQ; starting on April 3, 2020 [13], the entire state of Georgia enacted statewide directives for SIP until April 30, 2020; new guidance was issued by the Governor of Georgia on April 20, 2020 that gyms,

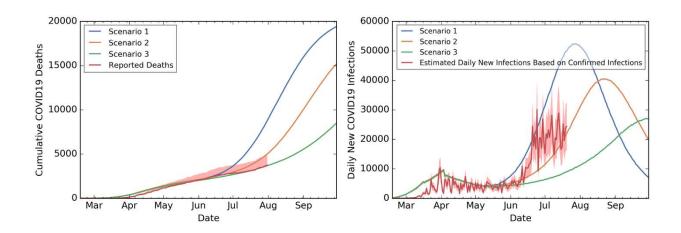
bowling alleys, tattoo parlors, barbers, hair and nail salons, and massage therapists may reopen for business on April 24, 2020, and theaters and dine-in restaurants may reopen for business on April 27, 2020 [14]. All intervention scenarios included decreasing compliance with voluntary shelter-in-place (VSIP) after the end of SIP. Compliance levels were chosen to be in line with social mobility indicators, calculated by vehicle miles travelled (VMT) [15] in Georgia and compared to levels in January 2020, before COVID19. During SIP, there was on average a 57% decrease in VMT compared to January. Although there was an increase in VMT in the weeks following SIP, VMT was 42%, 38%, 34% and 25% below the January level, respectively. Considering the gradual increase in VMT after SIP and the VMT levels staying below January levels during the course of the pandemic, it was assumed that after SIP, compliance with VSIP was 60%, 40%, 20% and 5% weekly following SIP and 5% continued to comply.

Due to high variations in preliminary COVID19 estimates, we calibrated our model and adjusted disease parameters according to confirmed COVID19 infections, hospitalizations and deaths in the state of Georgia. Percentage of symptomatic infections was adjusted based on the literature and confirmed infections. Probability of hospitalization was calculated and adjusted based on CDC report [16] and [5] to capture the age specific hospitalization probabilities and better mimic the current condition in the state of Georgia, to that end we multiplied probabilities provided in [11] with 1/3. In S1 Fig, we present the cumulative number of deaths confirmed by the state of Georgia in comparison to our projections and the confirmed COVID19 infections in Georgia [5] multiplied by 4-8 to account for under-testing and existence of asymptomatic infections [17]. Throughout the course of the pandemic, there has been a discrepancy among

testing capacity and testing demand; further, up until April, there were testing criteria in place that limited that amount of testing performed. Considering testing restrictions, variability in COVID19 symptoms, and feedback from the Georgia Department of Public Health, we believe a factor of 6 to be an appropriate multiplier. A more recent CDC report suggest the actual number of infections can be 6-10 times more than the confirmed number of infections [17].

Georgia results are shifted one week earlier to account for the infection incubation period in comparison to our daily infection estimates.

S1 Fig. Cumulative number of COVID19 deaths and infections. Cumulative number of COVID19 deaths (left plot) and infections (right plot) of Scenarios 1, 2, 3 with respect to confirmed numbers of Georgia. On left, the actual COVID19 deaths in Georgia multiplied by 1-1.25 for under-reporting [18] is plotted whereas on right, the confirmed COVID19 infections in Georgia [5] multiplied by 4-8 to account for under-testing and existence of asymptomatic infections [17] and moved one week earlier to account for incubation period.



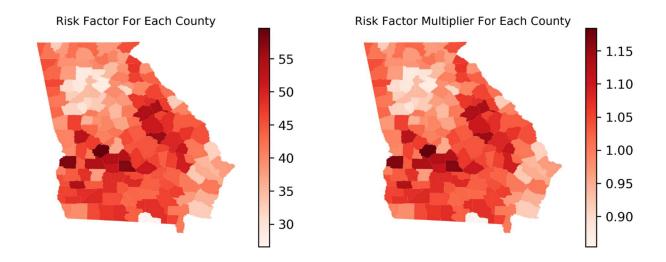
One way to assess the validity of the model was to examine the how our model performed on urban versus rural counties. For example, DeKalb County, an urban county, experiences the earliest peak day on July 26<sup>th</sup> under Scenario 1, but under Scenario 4 or 7, the peak shifted to August 5<sup>th</sup>–14<sup>th</sup>. Increasing VQ compliance to medium or high would push the peak day to August 19<sup>th</sup> and September 28<sup>th</sup>, respectively. On the other hand, Lamar County, a rural county, has its earliest peak on July 30<sup>th</sup> under Scenario 1, but under Scenario 4 or 7, the peak shifts to August 8<sup>th</sup>–16<sup>th</sup>. However, increasing VQ compliance to medium or high would push the peak day to August 30<sup>th</sup> and September 23<sup>rd</sup>.

For instance, peak infection percentage in Gordon County increases from 0.58% to 0.62% from Scenario 1 to 4 and decreases from 0.62% to 0.59% from Scenario 4 to 7. Similar fluctuations can be observed in other urban and rural counties. The rural county of Webster has a peak percentage decrease from 0.42% to 0.407% from Scenario 1 to 4 and increase from 0.40% to 0.41% from Scenario 4 to 7. Increasing VQ compliance from low to medium and from medium to high provides approximately a 20% and 39% decrease, respectively, in peak infection percentage.

County-level risk factors were calculated and are visualized in S2 Fig.

**S2 Fig. County-level risk factor.** County-level risk factor (left) and its multiplier (right) derived by applying the principal component analysis on several factors known to impact a higher risk of complications and severe outcomes for COVID19 infections, including

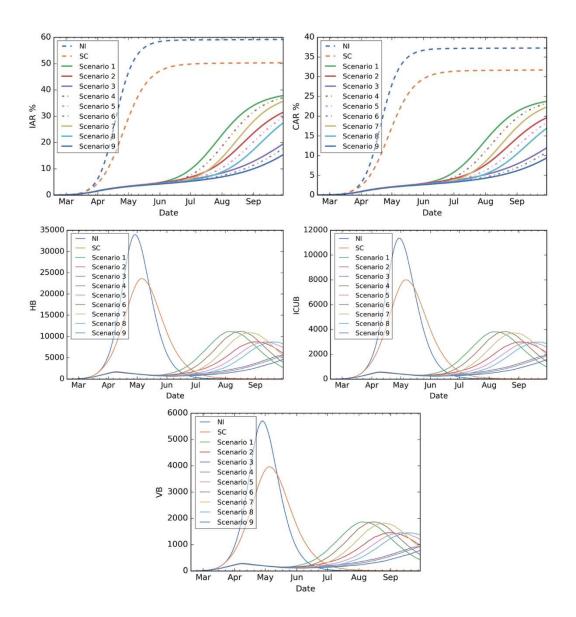
prevalence of asthma, diabetes, obesity, smoking, cardiovascular disease and chronic conditions in general [19].



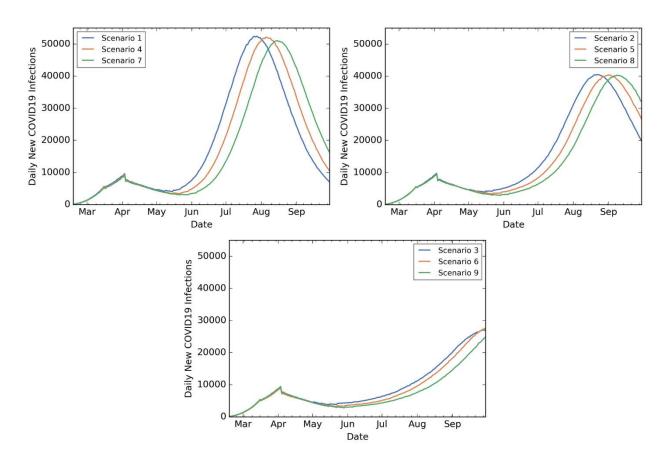
## S2 Appendix. Supplemental figures, tables and results

This supplemental material provides additional figures and tables complementing the results presented in the main manuscript.

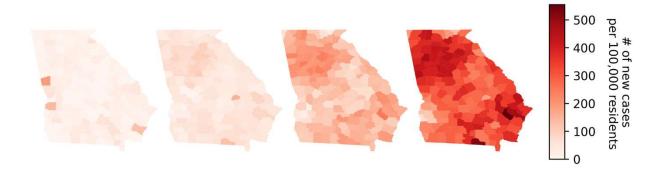
S3 Fig. State level outcomes: IAR, CAR, HB, ICUB, V across all scenarios. State Level Outcomes: IAR (first row left plot), CAR (first row right plot), hospital bed capacity (second row left plot), ICUB (second row right plot), V (third row center plot) across all scenarios (including the baseline scenarios).



S4 Fig. State level outcomes: NIC for low, medium, and high levels of VQ after 4, 5, and 6 weeks of SIP. State level Outcomes: Daily new COVID19 infections when Low VQ is combined with 4 week (Scenario 1), 5 week (Scenario 4), 6 week (Scenario 7) SIP (top left plot), Medium VQ is combined with 4 week (Scenario 2), 5 week (Scenario 5), 6 week (Scenario 8) SIP (top right plot), High VQ is combined with 4 week (Scenario 3), 5 week (Scenario 6), 6 week (Scenario 9) SIP (bottom center plot).



**S5 Fig. Number of new infections per 100,000 people.** Four maps of Georgia at the county level recording the number of new infections per 100,000 people for June 23,2020 (using the actual number of infections), July 15, 2020 (simulated data from our model), August 15, 2020 (simulated data), and September 15, 2020 (simulated data), respectively [19].



S1 Table. Peak day in each county.

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Atkinson     2-May     10-May     4-Aug     31-Aug     25-Sep     6-Aug     10-Sep     1-Sep     30-Aug     18-Sep     28-Ser       Bacon     27-Apr     14-May     6-Aug     22-Sep     29-Sep     5-Sep     25-Sep     2-Sep     3-Sep     29-Sep       Baker     30-Apr     8-May     7-Aug     20-Aug     4-Sep     20-Aug     8-Sep     28-Sep     3-Aug     28-Sep     27-Sep     26-Aug     13-Sep     25-Sep     30-Aug     13-Sep     25-Sep     27-Sep     26-Aug     13-Sep     25-Sep     27-Sep     26-Aug     11-Sep     28-Sep     25-Sep     24-Aug     30-Sep     27-Sep     26-Aug     11-Sep     28-Sep     28-Sep     28-Sep     24-Sep     28-Sep     24-Aug     30-Aug     13-Sep     29-Sep     28-Sep	County Name		SC	1	2	3	4	5	6	7	8	9
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Brantley     23-Apr     12-May     25-Jul     22-Aug     17-Sep     11-Aug     26-Aug     29-Sep     20-Sep     24-Sep       Brooks     1-May     28-Apr     26-Jul     18-Sep     22-Sep     7-Aug     7-Sep     28-Sep     20-Aug     27-Sep     30-Sep       Bryan     20-Apr     29-Apr     30-Jul     20-Aug     20-Sep     11-Aug     1-Sep     23-Sep     14-Aug     11-Sep     29-Sep       Bulloch     22-Apr     29-Apr     1-Aug     28-Aug     23-Sep     18-Aug     4-Sep     28-Sep     31-Aug     19-Sep     30-Sep       Burke     24-Apr     6-May     8-Aug     29-Aug     22-Sep     5-Aug     28-Aug     19-Sep     26-Aug     19-Sep     27-Sep     28-Bug     19-Sep     26-Aug     10-Sep     29-Sep     15-Sep     29-Sep     15-Sep     29-Sep     15-Sep     29-Sep     15-Sep     26-Sep     30-Sep     26-Aug     16-Sep     26-Sep     27-Aug     8-Sep     29-Sep       Calhoun     18-Apr	Bibb	22-Apr	30-Apr	7-Aug	31-Aug	30-Sep	18-Aug	9-Sep	30-Sep	18-Aug	20-Sep	30-Sep
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Bryan     20-Apr     29-Apr     30-Jul     20-Aug     20-Sep     11-Aug     1-Sep     23-Sep     14-Aug     11-Sep     29-Sep       Bulloch     22-Apr     29-Apr     1-Aug     28-Aug     23-Sep     18-Aug     4-Sep     28-Sep     31-Aug     19-Sep     30-Sep       Burke     24-Apr     6-May     8-Aug     29-Aug     22-Sep     5-Aug     28-Aug     19-Sep     26-Aug     9-Sep     27-Sep       Butts     20-Apr     26-Apr     21-Jul     22-Aug     14-Sep     29-Jul     5-Sep     29-Sep     18-Aug     10-Sep     29-Sep       Calhoun     1-May     6-May     19-Aug     9-Sep     27-Sep     28-Aug     28-Sep     30-Sep     8-Sep     9-Sep     15-Sep       Camden     25-Apr     15-May     13-Jul     27-Aug     28-Sep     17-Aug     26-Sep     30-Sep     26-Sep     27-Aug     8-Sep     29-Sep       Carroll     18-Apr     28-Apr     27-Jul     15-Aug     28-Sep     15-Aug     15-	Brantley	23-Apr	12-May	25-Jul	22-Aug	17-Sep	11-Aug	26-Aug	29-Sep	9-Sep	20-Sep	24-Sep
Bulloch     22-Apr     29-Apr     1-Aug     28-Aug     23-Sep     18-Aug     4-Sep     28-Sep     31-Aug     19-Sep     30-Sep       Burke     24-Apr     6-May     8-Aug     29-Aug     22-Sep     5-Aug     28-Aug     19-Sep     26-Aug     9-Sep     27-Sep       Butts     20-Apr     26-Apr     21-Jul     22-Aug     14-Sep     29-Jul     5-Sep     29-Sep     18-Aug     10-Sep     29-Sep       Calhoun     1-May     6-May     19-Aug     9-Sep     27-Sep     28-Aug     28-Sep     30-Sep     8-Sep     9-Sep     15-Sep       Camden     25-Apr     15-May     13-Jul     27-Aug     28-Sep     17-Aug     26-Sep     30-Sep     26-Aug     16-Sep     28-Sep       Candler     28-Apr     7-Muy     17-Aug     21-Aug     20-Sep     4-Sep     7-Sep     26-Sep     27-Aug     8-Sep     29-Sep       Carroll     18-Apr     28-Apr     27-Jul     15-Aug     28-Sep     15-Aug     15-Sep     26-	Brooks	1-May	28-Apr	26-Jul	18-Sep	22-Sep	7-Aug	7-Sep	28-Sep	20-Aug	27-Sep	30-Sep
Burke     24-Apr     6-May     8-Aug     29-Aug     22-Sep     5-Aug     28-Aug     19-Sep     26-Aug     9-Sep     27-Sep       Butts     20-Apr     26-Apr     21-Jul     22-Aug     14-Sep     29-Jul     5-Sep     29-Sep     18-Aug     10-Sep     29-Sep       Calhoun     1-May     6-May     19-Aug     9-Sep     27-Sep     28-Aug     28-Sep     30-Sep     30-Sep     39-Sep     15-Sep       Camden     25-Apr     15-May     13-Jul     27-Aug     28-Sep     17-Aug     26-Sep     30-Sep     26-Aug     16-Sep     28-Sep       Candler     28-Apr     7-May     17-Aug     20-Sep     4-Sep     7-Sep     26-Sep     27-Aug     8-Sep     29-Sep       Carroll     18-Apr     28-Apr     27-Jul     15-Aug     28-Sep     6-Aug     5-Sep     26-Sep     21-Aug     7-Sep     29-Sep       Catoosa     24-Apr     4-May     7-Aug     21-Aug     15-Sep     21-Aug     11-Sep     21-Aug     21-S	Bryan	20-Apr	29-Apr	30-Jul	20-Aug	20-Sep	11-Aug	1-Sep	23-Sep	14-Aug	11-Sep	29-Sep
Butts     20-Apr     26-Apr     21-Jul     22-Aug     14-Sep     29-Jul     5-Sep     29-Sep     18-Aug     10-Sep     29-Sep       Calhoun     1-May     6-May     19-Aug     9-Sep     27-Sep     28-Aug     28-Sep     30-Sep     8-Sep     9-Sep     15-Sep       Camden     25-Apr     15-May     13-Jul     27-Aug     28-Sep     17-Aug     26-Sep     30-Sep     26-Aug     16-Sep     28-Sep       Candler     28-Apr     7-May     17-Aug     21-Aug     20-Sep     4-Sep     7-Sep     26-Sep     27-Aug     8-Sep     29-Sep       Carroll     18-Apr     28-Apr     27-Jul     15-Aug     28-Sep     6-Aug     5-Sep     26-Sep     21-Aug     7-Sep     29-Sep       Catoosa     24-Apr     4-May     7-Aug     21-Aug     15-Sep     30-Sep     21-Aug     14-Sep     29-Sep       Charlton     11-May     19-May     7-Aug     21-Aug     30-Sep     12-Aug     21-Sep     21-Sep     21-Sep	Bulloch	22-Apr	29-Apr	1-Aug	28-Aug	23-Sep	18-Aug	4-Sep	28-Sep	31-Aug	19-Sep	30-Sep
Calhoun     1-May     6-May     19-Aug     9-Sep     27-Sep     28-Aug     28-Sep     30-Sep     8-Sep     9-Sep     15-Sep       Camden     25-Apr     15-May     13-Jul     27-Aug     28-Sep     17-Aug     26-Sep     30-Sep     26-Aug     16-Sep     28-Sep       Candler     28-Apr     7-May     17-Aug     21-Aug     20-Sep     4-Sep     7-Sep     26-Sep     27-Aug     8-Sep     29-Sep       Carroll     18-Apr     28-Apr     27-Jul     15-Aug     28-Sep     6-Aug     5-Sep     26-Sep     21-Aug     7-Sep     29-Sep       Catoosa     24-Apr     4-May     7-Aug     24-Aug     26-Sep     15-Aug     15-Sep     30-Sep     23-Aug     14-Sep     29-Sep       Charlton     11-May     19-May     7-Aug     21-Aug     19-Sep     27-Aug     30-Sep     21-Aug     21-Sep     21-Sep     21-Sep     21-Sep     21-Sep     21-Sep     21-Sep     21-Sep     22-Sep     22-Sep     22-Sep     22-Sep	Burke	24-Apr	6-May	8-Aug	29-Aug	22-Sep	5-Aug	28-Aug	19-Sep	26-Aug	9-Sep	27-Sep
Camden     25-Apr     15-May     13-Jul     27-Aug     28-Sep     17-Aug     26-Sep     30-Sep     26-Aug     16-Sep     28-Sep       Candler     28-Apr     7-May     17-Aug     21-Aug     20-Sep     4-Sep     7-Sep     26-Sep     27-Aug     8-Sep     29-Sep       Carroll     18-Apr     28-Apr     27-Jul     15-Aug     28-Sep     6-Aug     5-Sep     26-Sep     21-Aug     7-Sep     29-Sep       Catoosa     24-Apr     4-May     7-Aug     24-Aug     26-Sep     15-Aug     15-Sep     30-Sep     23-Aug     14-Sep     29-Sep       Charlton     11-May     19-May     7-Aug     21-Aug     19-Sep     27-Aug     30-Sep     18-Sep     21-Aug     21-Sep     21-Sep       Chatham     18-Apr     28-Apr     4-Aug     30-Aug     30-Sep     12-Aug     6-Sep     27-Sep     19-Aug     14-Sep     29-Sep       Chattahoochee     30-Apr     1-May     4-Aug     29-Aug     26-Sep     17-Aug     21-Sep	Butts	20-Apr	26-Apr	21-Jul	22-Aug	14-Sep	29-Jul	5-Sep	29-Sep	18-Aug	10-Sep	29-Sep
Candler     28-Apr     7-May     17-Aug     21-Aug     20-Sep     4-Sep     7-Sep     26-Sep     27-Aug     8-Sep     29-Sep       Carroll     18-Apr     28-Apr     27-Jul     15-Aug     28-Sep     6-Aug     5-Sep     26-Sep     21-Aug     7-Sep     29-Sep       Catoosa     24-Apr     4-May     7-Aug     24-Aug     26-Sep     15-Sep     30-Sep     23-Aug     14-Sep     29-Sep       Charlton     11-May     19-May     7-Aug     21-Aug     19-Sep     27-Aug     30-Sep     21-Aug     21-Sep     22-Sep     22-Sep     23-Sep     23-Sep     25-Sep     25-	Calhoun	1-May	6-May	19-Aug	9-Sep	27-Sep	28-Aug	28-Sep	30-Sep	8-Sep	9-Sep	15-Sep
Carroll     18-Apr     28-Apr     27-Jul     15-Aug     28-Sep     6-Aug     5-Sep     26-Sep     21-Aug     7-Sep     29-Sep       Catoosa     24-Apr     4-May     7-Aug     24-Aug     26-Sep     15-Sep     30-Sep     23-Aug     14-Sep     29-Sep       Charlton     11-May     19-May     7-Aug     21-Aug     19-Sep     27-Aug     30-Sep     18-Sep     21-Aug     21-Sep     22-Sep     23-Sep	Camden	25-Apr	15-May	13-Jul	27-Aug	28-Sep	17-Aug	26-Sep	30-Sep	26-Aug	16-Sep	28-Sep
Catoosa     24-Apr     4-May     7-Aug     24-Aug     26-Sep     15-Aug     15-Sep     30-Sep     23-Aug     14-Sep     29-Sep       Charlton     11-May     19-May     7-Aug     21-Aug     19-Sep     27-Aug     30-Sep     18-Sep     21-Aug     21-Sep     22-Sep     22-Sep     21-Sep     22-Sep     23-Sep	Candler	28-Apr	7-May	17-Aug	21-Aug	20-Sep	4-Sep	7-Sep	26-Sep	27-Aug	8-Sep	29-Sep
Charlton     11-May     19-May     7-Aug     21-Aug     19-Sep     27-Aug     30-Sep     18-Sep     21-Aug     21-Sep     21-Sep       Chatham     18-Apr     28-Apr     4-Aug     30-Aug     30-Sep     12-Aug     6-Sep     27-Sep     19-Aug     14-Sep     30-Sep       Chattahoochee     30-Apr     14-May     6-Aug     14-Sep     28-Sep     13-Aug     25-Sep     23-Sep     21-Aug     20-Sep     25-Sep       Chattooga     21-Apr     1-May     4-Aug     29-Aug     26-Sep     17-Aug     11-Sep     22-Sep     21-Aug     20-Sep     29-Sep       Cherokee     17-Apr     24-Apr     27-Jul     21-Aug     22-Sep     3-Aug     28-Aug     28-Sep     13-Aug     6-Sep     30-Sep       Clarke     19-Apr     1-May     2-Aug     19-Aug     27-Sep     14-Aug     9-Sep     25-Sep     12-Aug     6-Sep     28-Sep       Clay     30-Apr     16-May     22-Aug     11-Sep     20-Sep     11-Sep     24-Sep	Carroll	18-Apr	28-Apr	27-Jul	15-Aug	28-Sep	6-Aug	5-Sep	26-Sep	21-Aug	7-Sep	29-Sep
Chatham     18-Apr     28-Apr     4-Aug     30-Aug     30-Sep     12-Aug     6-Sep     27-Sep     19-Aug     14-Sep     30-Sep       Chattahoochee     30-Apr     14-May     6-Aug     14-Sep     28-Sep     13-Aug     25-Sep     23-Sep     20-Sep     25-Sep       Chattooga     21-Apr     1-May     4-Aug     29-Aug     26-Sep     17-Aug     11-Sep     22-Sep     21-Aug     20-Sep     29-Sep       Cherokee     17-Apr     24-Apr     27-Jul     21-Aug     22-Sep     3-Aug     28-Aug     28-Sep     13-Aug     6-Sep     30-Sep       Clarke     19-Apr     1-May     2-Aug     19-Aug     27-Sep     14-Aug     9-Sep     25-Sep     12-Aug     6-Sep     28-Sep       Clay     30-Apr     16-May     22-Aug     11-Sep     20-Sep     11-Sep     24-Sep     22-Sep     13-Sep     17-Aug       Clayton     16-Apr     23-Apr     22-Jul     16-Aug     18-Sep     2-Aug     30-Aug     28-Sep     14-Aug	Catoosa	24-Apr	4-May	7-Aug	24-Aug	26-Sep	15-Aug	15-Sep	30-Sep	23-Aug	14-Sep	29-Sep
Chattahoochee     30-Apr     14-May     6-Aug     14-Sep     28-Sep     13-Aug     25-Sep     23-Sep     2-Sep     20-Sep     25-Sep       Chattooga     21-Apr     1-May     4-Aug     29-Aug     26-Sep     17-Aug     11-Sep     22-Sep     21-Aug     20-Sep     29-Sep       Cherokee     17-Apr     24-Apr     27-Jul     21-Aug     22-Sep     3-Aug     28-Aug     28-Sep     13-Aug     6-Sep     30-Sep       Clarke     19-Apr     1-May     2-Aug     19-Aug     27-Sep     14-Aug     9-Sep     25-Sep     12-Aug     6-Sep     28-Sep       Clay     30-Apr     16-May     22-Aug     11-Sep     20-Sep     11-Sep     21-Sep     24-Sep     22-Sep     13-Sep     17-Aug       Clayton     16-Apr     23-Apr     22-Jul     16-Aug     18-Sep     2-Aug     30-Aug     28-Sep     14-Aug     7-Sep     30-Sep       Clinch     16-May     23-May     12-Aug     28-Aug     29-Sep     12-Aug     14-Sep	Charlton	11-May	19-May	7-Aug	21-Aug	19-Sep	27-Aug	30-Sep	18-Sep	21-Aug	21-Sep	21-Sep
Chattooga     21-Apr     1-May     4-Aug     29-Aug     26-Sep     17-Aug     11-Sep     22-Sep     21-Aug     20-Sep     29-Sep       Cherokee     17-Apr     24-Apr     27-Jul     21-Aug     22-Sep     3-Aug     28-Aug     28-Sep     13-Aug     6-Sep     30-Sep       Clarke     19-Apr     1-May     2-Aug     19-Aug     27-Sep     14-Aug     9-Sep     25-Sep     12-Aug     6-Sep     28-Sep       Clay     30-Apr     16-May     22-Aug     11-Sep     20-Sep     11-Sep     24-Sep     22-Sep     13-Sep     17-Aug       Clayton     16-Apr     23-Apr     22-Jul     16-Aug     18-Sep     2-Aug     30-Aug     28-Sep     14-Aug     7-Sep     30-Sep       Clinch     16-May     23-May     12-Aug     28-Aug     29-Sep     12-Aug     14-Sep     29-Sep     17-Aug     29-Sep     30-Sep	Chatham	18-Apr	28-Apr	4-Aug	30-Aug	30-Sep	12-Aug	6-Sep	27-Sep	19-Aug	14-Sep	30-Sep
Cherokee     17-Apr     24-Apr     27-Jul     21-Aug     22-Sep     3-Aug     28-Aug     28-Sep     13-Aug     6-Sep     30-Sep       Clarke     19-Apr     1-May     2-Aug     19-Aug     27-Sep     14-Aug     9-Sep     25-Sep     12-Aug     6-Sep     28-Sep       Clay     30-Apr     16-May     22-Aug     11-Sep     20-Sep     11-Sep     21-Sep     24-Sep     22-Sep     13-Sep     17-Aug       Clayton     16-Apr     23-Apr     22-Jul     16-Aug     18-Sep     2-Aug     30-Aug     28-Sep     14-Aug     7-Sep     30-Sep       Clinch     16-May     23-May     12-Aug     29-Sep     12-Aug     14-Sep     29-Sep     17-Aug     29-Sep     30-Sep	Chattahoochee	30-Apr	14-May	6-Aug	14-Sep	28-Sep	13-Aug	25-Sep	23-Sep	2-Sep	20-Sep	25-Sep
Clarke   19-Apr   1-May   2-Aug   19-Aug   27-Sep   14-Aug   9-Sep   25-Sep   12-Aug   6-Sep   28-Sep     Clay   30-Apr   16-May   22-Aug   11-Sep   20-Sep   11-Sep   21-Sep   24-Sep   22-Sep   13-Sep   17-Aug     Clayton   16-Apr   23-Apr   22-Jul   16-Aug   18-Sep   2-Aug   30-Aug   28-Sep   14-Aug   7-Sep   30-Sep     Clinch   16-May   23-May   12-Aug   28-Aug   29-Sep   12-Aug   14-Sep   29-Sep   17-Aug   29-Sep   30-Sep	Chattooga	21-Apr	1-May	4-Aug	29-Aug	26-Sep	17-Aug	11-Sep	22-Sep	21-Aug	20-Sep	29-Sep
Clay   30-Apr   16-May   22-Aug   11-Sep   20-Sep   11-Sep   21-Sep   24-Sep   22-Sep   13-Sep   17-Aug     Clayton   16-Apr   23-Apr   22-Jul   16-Aug   18-Sep   2-Aug   30-Aug   28-Sep   14-Aug   7-Sep   30-Sep     Clinch   16-May   23-May   12-Aug   29-Sep   12-Aug   14-Sep   29-Sep   17-Aug   29-Sep   30-Sep	Cherokee	17-Apr	24-Apr	27-Jul	21-Aug	22-Sep	3-Aug	28-Aug	28-Sep	13-Aug	6-Sep	30-Sep
Clayton     16-Apr     23-Apr     22-Jul     16-Aug     18-Sep     2-Aug     30-Aug     28-Sep     14-Aug     7-Sep     30-Sep       Clinch     16-May     23-May     12-Aug     29-Sep     12-Aug     14-Sep     29-Sep     17-Aug     29-Sep     30-Sep	Clarke	19-Apr	1-May	2-Aug	19-Aug	27-Sep	14-Aug	9-Sep	25-Sep	12-Aug	6-Sep	28-Sep
Clinch 16-May 23-May 12-Aug 28-Aug 29-Sep 12-Aug 14-Sep 29-Sep 17-Aug 29-Sep 30-Sep	Clay	30-Apr	16-May	22-Aug	11-Sep	20-Sep	11-Sep	21-Sep	24-Sep	22-Sep	13-Sep	17-Aug
	Clayton	16-Apr	23-Apr	22-Jul	16-Aug	18-Sep	2-Aug	30-Aug	28-Sep	14-Aug	7-Sep	30-Sep
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Cobb   18-Apr   22-Apr   26-Jul   20-Aug   27-Sep   1-Aug   24-Aug   29-Sep   13-Aug   6-Sep   29-Sep	Cobb	18-Apr	22-Apr	26-Jul	20-Aug	27-Sep	1-Aug	24-Aug	29-Sep	13-Aug	6-Sep	29-Sep
Coffee 27-Apr 9-May 3-Aug 1-Sep 23-Sep 11-Aug 7-Sep 30-Sep 18-Aug 16-Sep 29-Sep	Coffee	27-Apr	9-May	3-Aug	1-Sep	23-Sep	11-Aug	7-Sep	30-Sep	18-Aug	16-Sep	29-Sep
Colquitt 24-Apr 23-Apr 1-Aug 27-Aug 27-Sep 7-Aug 9-Sep 29-Sep 31-Aug 24-Sep 29-Sep	Colquitt	24-Apr	23-Apr	1-Aug	27-Aug	27-Sep	7-Aug	9-Sep	29-Sep	31-Aug	24-Sep	29-Sep
Columbia 20-Apr 7-May 1-Aug 4-Sep 25-Sep 15-Aug 1-Sep 28-Sep 17-Aug 17-Sep 30-Sep	Columbia	20-Apr	7-May	1-Aug	4-Sep	25-Sep	15-Aug	1-Sep	28-Sep	17-Aug	17-Sep	30-Sep
Cook 23-Apr 30-Apr 10-Aug 24-Aug 30-Sep 24-Aug 29-Sep 28-Sep 27-Aug 17-Sep 29-Sep												
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Dade	1-May	15-May	13-Aug	29-Aug	20-Sep	23-Aug	21-Sep	25-Sep	5-Sep	28-Sep	30-Sep
Dawson	·	25-Apr	·		·	Ť	·	·	18-Aug	·	·
Decatur				27-Aug					11-Aug		•
DeKalb		25-Apr			·		·	·	14-Aug	·	30-Sep
Dodge	23-Apr						·		19-Aug	·	·
Dooly	24-Apr	•							26-Aug		
Dougherty	22-Apr			·	·			·	31-Aug	·	·
Douglas		22-Apr		·	·			·		·	
Early		10-May									
Echols	24-Apr								2-Sep		
Effingham	•								12-Aug		
Elbert	28-Apr								20-Aug		
Emanuel	29-Apr								27-Aug		
Evans	28-Apr	•	·		·		·	·	24-Aug	·	·
Fannin	30-Apr			•		Ŭ	Ŭ		29-Aug		
Fayette	18-Apr	23-Apr			·		·	·	14-Aug	·	·
Floyd	22-Apr	·		27-Aug	25-Sep	8-Aug	15-Sep	27-Sep	23-Aug	13-Sep	29-Sep
Forsyth	17-Apr	26-Apr		17-Aug	25-Sep	2-Aug	26-Aug	30-Sep	17-Aug	10-Sep	30-Sep
Franklin	25-Apr			25-Aug	27-Sep				21-Aug		·
Fulton	18-Apr	23-Apr									30-Sep
Gilmer		29-Apr		27-Aug					16-Aug		28-Sep
Glascock	29-Apr	5-May	13-Aug	20-Sep	30-Sep				18-Aug		
Glynn	23-Apr	8-May	6-Aug	30-Aug	29-Sep	14-Aug	27-Sep	30-Sep	23-Aug	22-Sep	18-Sep
Gordon	17-Apr	28-Apr	29-Jul	13-Aug	26-Sep	10-Aug	3-Sep	27-Sep	18-Aug	10-Sep	27-Sep
Grady	20-Apr	6-May	6-Aug	26-Aug	27-Sep	12-Aug	29-Sep	26-Sep	7-Sep	8-Sep	30-Sep
Greene	26-Apr	5-May	11-Aug	31-Aug	29-Sep	20-Aug	19-Sep	20-Sep	1-Sep	16-Sep	30-Sep
Gwinnett	14-Apr	22-Apr	21-Jul	20-Aug	21-Sep	1-Aug	23-Aug	30-Sep	10-Aug	4-Sep	30-Sep
Habersham	22-Apr	26-Apr	23-Jul	1-Sep	18-Sep	5-Aug	24-Aug	28-Sep	15-Aug	5-Sep	30-Sep
Hall	14-Apr	20-Apr	25-Jul	18-Aug	29-Sep	3-Aug	31-Aug	29-Sep	13-Aug	5-Sep	30-Sep
Hancock	25-Apr	6-May	4-Aug	16-Sep	27-Sep	29-Aug	25-Aug	29-Sep	24-Aug	18-Sep	20-Sep
Haralson	22-Apr	30-Apr	1-Aug	30-Aug	29-Sep	5-Aug	29-Aug	28-Sep	17-Aug	11-Sep	27-Sep
Harris	22-Apr	5-May	14-Aug	22-Aug	30-Sep	19-Aug	14-Sep	29-Sep	26-Aug	15-Sep	29-Sep
Hart	24-Apr	6-May	4-Aug	1-Sep	19-Sep	25-Aug	14-Sep	28-Sep	27-Aug	16-Sep	30-Sep
Heard	24-Apr	28-Apr	21-Aug	15-Aug	27-Sep	5-Aug	29-Aug	26-Sep	19-Aug	17-Sep	29-Sep
Henry	16-Apr	24-Apr	27-Jul	15-Aug	27-Sep	9-Aug	28-Aug	27-Sep	12-Aug	7-Sep	30-Sep
Houston	20-Apr	30-Apr	30-Jul	22-Aug	30-Sep	11-Aug	5-Sep	30-Sep	17-Aug	8-Sep	29-Sep
Irwin	1-May	2-May	25-Aug	1-Aug	25-Sep	31-Aug	10-Sep	28-Sep	20-Aug	28-Sep	23-Sep
Jackson	17-Apr	25-Apr	25-Jul	15-Aug	28-Sep	2-Aug	8-Sep	28-Sep	16-Aug	25-Aug	28-Sep
Jasper	23-Apr	25-Apr	18-Jul	19-Aug	26-Sep	13-Aug	11-Sep	30-Sep	13-Aug	3-Sep	29-Sep
Jeff Davis	23-Apr	8-May	17-Aug	30-Aug	19-Sep	28-Jul	3-Sep	26-Sep	22-Aug	20-Sep	30-Sep
Jefferson	28-Apr	13-May	15-Aug	13-Sep	23-Sep	19-Aug	12-Sep	29-Sep	2-Sep	20-Sep	12-Sep
Jenkins	26-Apr	9-May	13-Aug	4-Sep	25-Sep	9-Aug	3-Sep	27-Sep	11-Aug	23-Sep	29-Sep
Johnson	29-Apr	5-May	10-Aug	7-Sep	7-Sep	1-Sep	27-Sep	28-Sep	18-Aug	15-Sep	28-Sep

Jones	21-Apr	2-May	12-Aug	26-Aug	29-Sep	11-Aug	1-Sen	29-Sen	22-Aug	10-Sen	30-Sen
Lamar	23-Apr	•			23-Sep	·			16-Aug		
Lanier	27-Apr	,					•	•	15-Aug	•	•
Laurens	29-Apr	•			·			·	28-Aug	·	
Lee	22-Apr	,	14-Aug	·	30-Sep	·	Ĭ		26-Aug	·	
Liberty	20-Apr	_			17-Sep			•	16-Aug		
Lincoln	27-Apr		Ť		·	·	·		25-Aug		
_					1-Sep				18-Aug		
Lowndes	· ·								15-Aug		
Lumpkin		•							23-Aug		
McDuffie	22-Apr		23-Aug		30-Sep	·	Ĭ	20-Sep	·		29-Sep
McIntosh	25-Apr							•	29-Aug		
Macon	28-Apr				·	·			25-Aug	·	
Madison	20-Apr			·	24-Sep	·			16-Aug	·	
Marion	· ·	11-May									
Meriwether	25-Apr	•			22-Sep	·			25-Aug	·	
Miller	1-May	10-May			·	14-Aug			14-Aug		
Mitchell	27-Apr								25-Aug		
Monroe	•				· ·				18-Aug		
Montgomery	30-Apr								14-Aug		
Morgan	25-Apr				29-Sep		· ·		20-Aug		
Murray	18-Apr				12-Sep				12-Aug		
Muscogee*	23-Apr							30-Sep		30-Sep	·
Newton								30-Sep		•	30-Sep
Oconee	21-Apr				23-Sep				17-Aug		30-Sер
Oglethorpe	23-Apr	i i			·	·			11-Aug		25-Sep
Paulding					19-Sep				11-Aug		26-Sep
Peach	21-Apr						· ·		22-Aug		
Pickens					28-Sep				17-Aug		19-Sep
Pierce	29-Apr				•			•	29-Aug		
Pike	•	25-Apr						•			
Polk	20-Apr				30-Sep				19-Aug		29-Sep
Pulaski	27-Apr								23-Aug		29-Sep
Putnam	1				28-Sep				18-Aug		30-Sep
Quitman		25-May	Ť								
Rabun						· ·	· ·		24-Aug		
Randolph	9-May								20-Sep		
Richmond	22-Apr				30-Sep			·	18-Aug		
Rockdale		26-Apr	T T			<u> </u>			12-Aug		
Schley	•	7-May			7-Sep				11-Sep		
Screven	26-Apr						·	·	23-Aug	·	·
Seminole	•										
	1-May	•	·		·	The second second	·		14-Sep		·
Spalding	10-Apr	26-Apr	zo-Jul	rs-Aug	∠ <i>1-</i> 5ep	rz-Aug	н-оер	pu-sep	ir-Aug	4-sep	zə-sep

Stephens	24-Apr	2-May	31-Jul	2-Sep	29-Sep	4-Aug	7-Sep	30-Sep	22-Aug	5-Sep	30-Sep
Stewart	29-Apr	17-May	13-Aug	19-Sep	28-Sep	19-Aug	·	·	26-Aug	·	26-Sep
Sumter					•		10-Sep				
Talbot	27-Apr	9-May	3-Aug	18-Aug	27-Sep	10-Aug	26-Sep	11-Sep	23-Aug	28-Sep	14-Sep
Taliaferro	28-Apr	30-Apr	11-Aug	19-Sep	25-Aug	17-Aug	5-Sep	30-Sep	19-Aug	27-Sep	23-Sep
Tattnall	24-Apr	26-Apr	9-Aug	22-Aug	30-Sep	3-Aug	13-Sep	27-Sep	26-Aug	23-Sep	30-Sep
Taylor	29-Apr	6-May	15-Aug	13-Sep	29-Sep	18-Aug	16-Sep	18-Sep	25-Aug	15-Sep	27-Sep
Telfair	29-Apr	30-Apr	12-Aug	12-Sep	30-Sep	14-Aug	22-Sep	22-Sep	23-Aug	17-Sep	28-Sep
Terrell	27-Apr	2-May	24-Aug	28-Aug	25-Sep	18-Aug	4-Sep	30-Sep	4-Sep	29-Sep	30-Sep
Thomas	24-Apr	28-Apr	5-Aug	8-Sep	29-Sep	11-Aug	19-Sep	28-Sep	1-Sep	29-Sep	29-Sep
Tift	26-Apr	7-May	16-Aug	17-Aug	29-Sep	28-Aug	6-Sep	27-Sep	2-Sep	11-Sep	27-Sep
Toombs	28-Apr	1-May	6-Aug	28-Aug	8-Sep	11-Aug	1-Sep	30-Sep	19-Aug	17-Sep	29-Sep
Towns	4-May	5-May	26-Aug	27-Sep	29-Sep	29-Aug	18-Aug	28-Sep	25-Aug	27-Sep	11-Sep
Treutlen	1-May	15-May	31-Jul	4-Sep	19-Sep	14-Aug	31-Aug	20-Sep	4-Sep	25-Sep	25-Sep
Troup	24-Apr	4-May	4-Aug	21-Aug	22-Sep	8-Aug	6-Sep	30-Sep	20-Aug	25-Sep	30-Sep
Turner	27-Apr	1-May	24-Aug	18-Aug	20-Sep	13-Aug	11-Sep	30-Sep	26-Aug	22-Sep	27-Sep
Twiggs	27-Apr	30-Apr	12-Aug	26-Aug	30-Sep	12-Aug	10-Sep	20-Sep	25-Aug	26-Sep	30-Sep
Union	4-May	5-May	12-Aug	31-Aug	22-Sep	21-Aug	5-Sep	30-Sep	22-Aug	6-Sep	26-Sep
Upson	26-Apr	2-May	6-Aug	21-Aug	25-Sep	10-Aug	19-Sep	29-Sep	24-Aug	21-Sep	29-Sep
Walker	22-Apr	30-Apr	16-Aug	31-Aug	29-Sep	19-Aug	19-Sep	30-Sep	29-Aug	17-Sep	30-Sep
Walton	17-Apr	25-Apr	26-Jul	19-Aug	30-Sep	3-Aug	2-Sep	30-Sep	12-Aug	8-Sep	27-Sep
Ware	28-Apr	9-May	2-Aug	30-Aug	29-Sep	12-Aug	28-Aug	29-Sep	1-Sep	26-Sep	29-Sep
Warren	2-May	10-May	26-Aug	22-Sep	28-Sep	6-Aug	12-Sep	29-Sep	23-Aug	23-Sep	26-Sep
Washington	3-May	9-May	13-Aug	15-Sep	25-Sep	30-Aug	19-Sep	24-Sep	1-Sep	8-Sep	30-Sep
Wayne	24-Apr	5-May	7-Aug	29-Aug	4-Sep	17-Aug	2-Sep	28-Sep	8-Aug	16-Sep	30-Sep
Webster	4-May	9-May	11-Aug	23-Sep	27-Sep	22-Aug	30-Aug	17-Sep	20-Aug	30-Sep	28-Sep
Wheeler	29-Apr	10-May	9-Aug	8-Sep	19-Sep	18-Aug	11-Sep	27-Sep	25-Aug	19-Sep	24-Sep
White	20-Apr	26-Apr	3-Aug	21-Aug	30-Sep	10-Aug	2-Sep	28-Sep	23-Aug	16-Sep	30-Sep
Whitfield	18-Apr	2-May	31-Jul	25-Aug	19-Sep	13-Aug	11-Sep	30-Sep	15-Aug	11-Sep	28-Sep
Wilcox	27-Apr	6-May	15-Aug	31-Aug	26-Sep	17-Aug	11-Sep	30-Sep	1-Sep	25-Sep	27-Sep
Wilkes	27-Apr	10-May	1-Sep	22-Sep	28-Sep	17-Sep	27-Sep	29-Sep	26-Aug	17-Sep	29-Sep
Wilkinson	25-Apr	28-Apr	5-Aug	1-Sep	24-Sep	19-Aug	1-Sep	30-Sep	10-Aug	21-Sep	18-Sep
Worth	27-Apr	27-Apr	8-Aug	5-Sep	29-Sep	12-Aug	15-Sep	28-Sep	7-Sep	18-Sep	29-Sep

Peak day in each county in the State of Georgia under all scenarios tested with urban counties highlighted in gray.

S2 Table. Peak infection percentage in each county.

<b>County Name</b>	NI	sc	1	2	3	4	5	6	7	8	9
Appling	1.69	0.90	0.47	0.43	0.23	0.51	0.36	0.26	0.44	0.41	0.21
Atkinson	1.70	1.14	0.57	0.43	0.27	0.58	0.40	0.26	0.56	0.44	0.24
Bacon	1.65	1.00	0.53	0.41	0.25	0.55	0.42	0.23	0.53	0.44	0.24
Baker	1.52	1.11	0.50	0.40	0.30	0.48	0.47	0.29	0.40	0.37	0.24
Baldwin	1.49	1.03	0.51	0.34	0.27	0.46	0.37	0.22	0.45	0.39	0.25
Banks	1.82	1.15	0.64	0.47	0.28	0.57	0.47	0.29	0.52	0.43	0.29
Barrow	2.06	1.26	0.60	0.44	0.28	0.57	0.44	0.30	0.59	0.45	0.29
Bartow	1.91	1.23	0.59	0.43	0.31	0.57	0.43	0.31	0.57	0.44	0.27
Ben Hill	1.47	0.93	0.42	0.43	0.26	0.46	0.45	0.26	0.50	0.40	0.17
Berrien	1.65	0.97	0.44	0.48	0.23	0.47	0.36	0.24	0.41	0.43	0.19
Bibb	1.67	1.00	0.47	0.40	0.29	0.47	0.39	0.24	0.48	0.39	0.22
Bleckley	1.73	1.07	0.51	0.40	0.28	0.54	0.45	0.28	0.53	0.43	0.19
Brantley	1.55	0.99	0.55	0.43	0.24	0.50	0.39	0.24	0.45	0.44	0.22
Brooks	1.52	0.90	0.41	0.37	0.23	0.47	0.35	0.21	0.45	0.41	0.22
Bryan	1.94	1.05	0.54	0.47	0.29	0.49	0.45	0.29	0.51	0.41	0.24
Bulloch	1.72	1.18	0.56	0.38	0.34	0.52	0.46	0.28	0.53	0.46	0.26
Burke	1.72	1.09	0.50	0.42	0.33	0.49	0.38	0.28	0.48	0.47	0.22
Butts	1.97	1.33	0.64	0.43	0.31	0.64	0.45	0.30	0.52	0.45	0.28
Calhoun	1.58	1.08	0.49	0.40	0.34	0.53	0.45	0.25	0.47	0.41	0.17
Camden	1.54	1.03	0.51	0.43	0.25	0.47	0.45	0.29	0.44	0.43	0.22
Candler	1.73	1.09	0.50	0.45	0.35	0.48	0.44	0.24	0.52	0.45	0.24
Carroll	1.89	1.20	0.55	0.42	0.28	0.57	0.44	0.28	0.53	0.41	0.23
Catoosa	1.66	1.02	0.47	0.40	0.26	0.53	0.38	0.27	0.49	0.40	0.16
Charlton	1.28	0.99	0.57	0.47	0.23	0.44	0.35	0.28	0.57	0.40	0.24
Chatham	1.69	1.05	0.51	0.43	0.30	0.53	0.43	0.26	0.52	0.37	0.22
Chattahoochee	1.65	1.10	0.57	0.57	0.31	0.52	0.44	0.25	0.57	0.51	0.14
Chattooga	1.70	1.13	0.53	0.38	0.25	0.49	0.37	0.26	0.63	0.46	0.21
Cherokee	2.08	1.25	0.58	0.44	0.31	0.59	0.44	0.32	0.57	0.47	0.27
Clarke	1.86	1.16	0.53	0.43	0.29	0.52	0.39	0.29	0.58	0.42	0.26
Clay	1.08	0.84	0.41	0.22	0.24	0.47	0.39	0.20	0.44	0.29	0.17
Clayton	2.08	1.27	0.59	0.46	0.28	0.59	0.45	0.30	0.56	0.44	0.28
Clinch	1.43	0.77	0.48	0.28	0.16	0.43	0.35	0.15	0.37	0.29	0.18
Cobb	2.00	1.26	0.57	0.42	0.29	0.57	0.44	0.30	0.56	0.43	0.27
Coffee	1.60	1.01	0.45	0.43	0.27	0.49	0.46	0.23	0.52	0.35	0.21
Colquitt	1.55	0.94	0.48	0.37	0.24	0.44	0.34	0.22	0.49	0.41	0.20
Columbia	1.73	1.04	0.50	0.39	0.25	0.54	0.40	0.28	0.49	0.39	0.25
Cook	1.62	0.98	0.49	0.35	0.26	0.49	0.36	0.23	0.46	0.38	0.21
Coweta	1.94	1.24	0.57	0.44	0.31	0.61	0.46	0.30	0.54	0.44	0.28
Crawford	1.65	1.04	0.50	0.42	0.28	0.54	0.41	0.27	0.53	0.42	0.19
Crisp	1.57	0.92	0.50	0.37	0.22	0.45	0.37	0.21	0.45	0.37	0.27
Dade	1.41	0.87	0.35	0.33	0.22	0.44	0.41	0.13	0.45	0.33	0.16
Dawson	1.89	1.23	0.58	0.42	0.28	0.63	0.42	0.32	0.56	0.44	0.25

Decatur	1.31	0.90	0.45	0.39	0.26	0.44	0.29	0.23	0.40	0.35	0.16
DeKalb	1.94	1.25	0.57	0.43	0.28	0.56	0.43	0.29	0.54	0.42	0.27
Dodge	1.63	1.17	0.48	0.41	0.27	0.49	0.42	0.26	0.47	0.39	0.23
Dooly	1.51	1.05	0.62	0.48	0.24	0.50	0.48	0.30	0.48	0.43	0.23
Dougherty	1.57	0.95	0.43	0.30	0.25	0.43	0.38	0.22	0.42	0.38	0.20
Douglas	2.06	1.25	0.58	0.45	0.30	0.58	0.44	0.29	0.57	0.46	0.28
Early	1.27	0.87	0.43	0.29	0.16	0.38	0.33	0.19	0.34	0.31	0.18
Echols	1.86	1.17	0.57	0.52	0.37	0.61	0.46	0.28	0.57	0.53	0.24
Effingham	1.81	1.12	0.57	0.49	0.30	0.57	0.46	0.32	0.58	0.42	0.26
Elbert	1.42	0.98	0.51	0.37	0.34	0.46	0.36	0.18	0.52	0.39	0.21
Emanuel	1.53	0.93	0.56	0.38	0.20	0.47	0.36	0.19	0.54	0.50	0.19
Evans	1.86	1.17	0.50	0.43	0.35	0.54	0.50	0.24	0.52	0.42	0.26
Fannin	1.31	0.81	0.40	0.34	0.16	0.36	0.30	0.20	0.42	0.31	0.12
Fayette	1.91	1.22	0.56	0.43	0.30	0.58	0.43	0.27	0.53	0.43	0.26
Floyd	1.76	1.19	0.57	0.44	0.25	0.54	0.36	0.29	0.50	0.41	0.21
Forsyth	2.10	1.28	0.63	0.45	0.28	0.60	0.48	0.31	0.60	0.46	0.26
Franklin	1.59	1.02	0.51	0.42	0.30	0.48	0.37	0.26	0.59	0.45	0.18
Fulton	1.91	1.20	0.55	0.41	0.27	0.54	0.42	0.28	0.53	0.41	0.26
Gilmer	1.82	1.02	0.51	0.43	0.24	0.49	0.38	0.24	0.54	0.43	0.23
Glascock	1.84	1.08	0.66	0.43	0.32	0.41	0.39	0.23	0.51	0.42	0.30
Glynn	1.58	0.90	0.48	0.36	0.24	0.48	0.36	0.23	0.42	0.43	0.20
Gordon	1.87	1.23	0.58	0.41	0.35	0.62	0.45	0.35	0.59	0.45	0.26
Grady	1.53	0.90	0.44	0.34	0.23	0.46	0.37	0.19	0.46	0.35	0.22
Greene	1.42	0.81	0.46	0.33	0.19	0.33	0.25	0.16	0.42	0.32	0.16
Gwinnett	2.16	1.34	0.60	0.45	0.28	0.59	0.45	0.30	0.57	0.43	0.29
Habersham	1.80	1.11	0.51	0.39	0.26	0.52	0.41	0.26	0.54	0.43	0.23
Hall	1.94	1.24	0.54	0.38	0.29	0.54	0.46	0.30	0.54	0.43	0.29
Hancock	1.40	0.95	0.63	0.37	0.27	0.42	0.32	0.24	0.51	0.39	0.25
Haralson	1.74	1.34	0.55	0.50	0.35	0.57	0.44	0.25	0.57	0.47	0.27
Harris	1.51	0.96	0.46	0.41	0.27	0.47	0.38	0.22	0.44	0.39	0.19
Hart	1.58	0.99	0.51	0.37	0.27	0.45	0.38	0.27	0.56	0.38	0.19
Heard	1.81	1.15	0.48	0.46	0.28	0.60	0.50	0.33	0.56	0.42	0.26
Henry	2.12	1.31	0.62	0.44	0.30	0.59	0.45	0.28	0.58	0.46	0.29
Houston	1.74	1.11	0.52	0.42	0.28	0.54	0.44	0.28	0.53	0.46	0.23
Irwin	1.47	0.92	0.52	0.37	0.29	0.45	0.42	0.22	0.50	0.37	0.20
Jackson	2.05	1.18	0.58	0.44	0.31	0.56	0.46	0.28	0.56	0.41	0.25
Jasper	1.87	1.28	0.59	0.39	0.31	0.61	0.44	0.35	0.55	0.50	0.20
Jeff Davis	1.60	1.01	0.47	0.47	0.21	0.51	0.44	0.25	0.51	0.38	0.22
Jefferson	1.44	0.97	0.49	0.38	0.18	0.40	0.32	0.19	0.40	0.41	0.17
Jenkins	1.71	0.95	0.60	0.38	0.43	0.52	0.54	0.26	0.53	0.44	0.23
Johnson	1.43	0.98	0.55	0.42	0.22	0.47	0.34	0.23	0.49	0.48	0.16
Jones	1.71	1.11	0.58	0.41	0.30	0.50	0.42	0.31	0.56	0.43	0.27
Lamar	1.93	1.11	0.57	0.42	0.28	0.55	0.40	0.30	0.50	0.41	0.25

Lanier	1.62	1.15	0.47	0.43	0.23	0.53	0.41	0.27	0.52	0.43	0.26
Laurens	1.54	0.92	0.48	0.42	0.22	0.48	0.35	0.27	0.51	0.36	0.22
Lee	1.70	1.03	0.47	0.37	0.31	0.50	0.45	0.28	0.46	0.39	0.19
Liberty	1.92	1.22	0.62	0.51	0.32	0.59	0.44	0.29	0.58	0.45	0.27
Lincoln	1.34	0.84	0.52	0.40	0.18	0.47	0.43	0.27	0.52	0.43	0.20
Long	1.96	1.31	0.67	0.56	0.33	0.61	0.47	0.33	0.61	0.48	0.29
Lowndes	1.51	0.99	0.42	0.40	0.26	0.48	0.35	0.27	0.50	0.38	0.24
Lumpkin	1.75	1.16	0.51	0.46	0.31	0.65	0.43	0.33	0.51	0.47	0.28
McDuffie	1.60	0.99	0.45	0.37	0.25	0.46	0.43	0.23	0.52	0.42	0.27
McIntosh	1.44	1.03	0.55	0.44	0.25	0.49	0.43	0.23	0.45	0.43	0.21
Macon	1.37	1.04	0.55	0.43	0.26	0.47	0.41	0.26	0.40	0.40	0.25
Madison	1.76	1.11	0.55	0.46	0.29	0.51	0.42	0.29	0.61	0.43	0.26
Marion	1.60	0.94	0.58	0.37	0.29	0.45	0.41	0.22	0.41	0.39	0.19
Meriwether	1.77	1.08	0.51	0.40	0.26	0.48	0.41	0.28	0.49	0.44	0.22
Miller	1.21	0.84	0.38	0.32	0.17	0.33	0.32	0.20	0.44	0.34	0.17
Mitchell	1.52	0.93	0.49	0.39	0.24	0.46	0.39	0.21	0.48	0.40	0.17
Monroe	1.74	1.12	0.54	0.40	0.30	0.52	0.43	0.29	0.55	0.44	0.25
Montgomery	1.62	1.02	0.50	0.42	0.28	0.45	0.43	0.23	0.51	0.35	0.25
Morgan	1.72	1.03	0.53	0.45	0.24	0.57	0.39	0.25	0.50	0.41	0.23
Murray	1.78	1.22	0.61	0.47	0.32	0.60	0.44	0.31	0.56	0.47	0.23
Muscogee*	1.55	0.91	0.44	0.35	0.23	0.39	0.34	0.20	0.40	0.35	0.18
Newton	1.99	1.31	0.62	0.44	0.30	0.60	0.43	0.30	0.58	0.43	0.28
Oconee	1.99	1.14	0.55	0.43	0.33	0.56	0.43	0.31	0.62	0.46	0.26
Oglethorpe	1.60	1.07	0.60	0.40	0.31	0.52	0.41	0.26	0.54	0.36	0.27
Paulding	2.15	1.32	0.61	0.48	0.32	0.57	0.46	0.32	0.57	0.45	0.28
Peach	1.69	1.05	0.48	0.43	0.27	0.53	0.43	0.31	0.54	0.46	0.26
Pickens	1.85	1.16	0.58	0.45	0.26	0.54	0.39	0.31	0.51	0.42	0.21
Pierce	1.47	0.80	0.54	0.37	0.19	0.48	0.34	0.23	0.49	0.31	0.19
Pike	1.84	1.18	0.55	0.47	0.31	0.55	0.46	0.31	0.59	0.41	0.23
Polk	1.81	1.16	0.59	0.40	0.30	0.55	0.40	0.29	0.59	0.42	0.23
Pulaski	1.75	1.15	0.52	0.50	0.32	0.62	0.45	0.34	0.50	0.44	0.31
Putnam	1.56	0.96	0.49	0.39	0.26	0.43	0.40	0.26	0.49	0.40	0.23
Quitman	1.14	0.81	0.29	0.26	0.12	0.34	0.32	0.20	0.47	0.20	0.18
Rabun	1.30	0.83	0.40	0.30	0.19	0.44	0.29	0.21	0.34	0.29	0.14
Randolph	1.13	0.62	0.28	0.17	0.18	0.43	0.21	0.12	0.24	0.21	0.14
Richmond	1.59	1.00	0.46	0.39	0.28	0.49	0.37	0.26	0.48	0.37	0.23
Rockdale	2.04	1.35	0.59	0.44	0.29	0.59	0.46	0.31	0.56	0.44	0.29
Schley	1.52	0.99	0.43	0.47	0.22	0.62	0.40	0.30	0.49	0.44	0.29
Screven	1.68	0.96	0.48	0.40	0.31	0.51	0.53	0.20	0.51	0.35	0.20
Seminole	1.38	0.89	0.41	0.40	0.23	0.52	0.28	0.17	0.33	0.32	0.15
Spalding	1.84	1.17	0.57	0.46	0.29	0.50	0.41	0.30	0.56	0.44	0.24
Stephens	1.53	1.03	0.54	0.38	0.25	0.52	0.39	0.29	0.53	0.40	0.15
Stewart	1.47	1.06	0.61	0.49	0.20	0.52	0.34	0.23	0.44	0.37	0.16

Sumter	1.59	0.97	0.44	0.35	0.24	0.51	0.35	0.27	0.45	0.42	0.19
Talbot	1.43	1.01	0.41	0.37	0.22	0.46	0.45	0.20	0.48	0.48	0.14
Taliaferro	1.39	1.01	0.51	0.65	0.22	0.45	0.47	0.24	0.56	0.49	0.31
Tattnall	1.81	1.12	0.60	0.52	0.33	0.62	0.46	0.29	0.54	0.38	0.23
Taylor	1.63	1.13	0.50	0.48	0.24	0.53	0.39	0.26	0.45	0.45	0.17
Telfair	1.46	1.07	0.54	0.48	0.26	0.50	0.43	0.33	0.54	0.40	0.24
Terrell	1.49	0.90	0.47	0.35	0.27	0.48	0.41	0.20	0.50	0.36	0.19
Thomas	1.46	0.82	0.41	0.34	0.21	0.47	0.33	0.20	0.45	0.35	0.18
Tift	1.68	0.96	0.51	0.41	0.29	0.45	0.38	0.24	0.49	0.37	0.21
Toombs	1.49	0.95	0.52	0.42	0.19	0.43	0.36	0.26	0.51	0.35	0.19
Towns	1.08	0.67	0.26	0.30	0.16	0.37	0.18	0.08	0.31	0.30	0.13
Treutlen	1.37	0.92	0.52	0.42	0.24	0.50	0.38	0.26	0.66	0.40	0.23
Troup	1.69	1.07	0.49	0.41	0.26	0.52	0.41	0.24	0.50	0.45	0.19
Turner	1.60	1.14	0.57	0.42	0.23	0.53	0.45	0.25	0.51	0.45	0.23
Twiggs	1.58	1.08	0.51	0.44	0.31	0.52	0.47	0.26	0.58	0.47	0.21
Union	1.17	0.73	0.33	0.30	0.15	0.40	0.22	0.15	0.31	0.23	0.16
Upson	1.65	1.04	0.49	0.36	0.21	0.55	0.40	0.25	0.51	0.40	0.22
Walker	1.65	0.99	0.46	0.40	0.26	0.46	0.38	0.23	0.46	0.42	0.17
Walton	1.98	1.27	0.62	0.44	0.29	0.59	0.41	0.27	0.56	0.45	0.25
Ware	1.50	0.86	0.49	0.43	0.21	0.47	0.38	0.24	0.47	0.27	0.20
Warren	1.40	0.98	0.53	0.36	0.21	0.53	0.43	0.25	0.44	0.40	0.26
Washington	1.52	0.98	0.53	0.42	0.18	0.45	0.43	0.20	0.48	0.40	0.22
Wayne	1.69	1.06	0.50	0.46	0.29	0.58	0.43	0.30	0.48	0.43	0.26
Webster	1.26	0.87	0.42	0.41	0.27	0.40	0.37	0.31	0.41	0.38	0.24
Wheeler	1.71	1.20	0.58	0.53	0.25	0.56	0.48	0.26	0.48	0.48	0.29
White	1.65	1.06	0.46	0.40	0.28	0.56	0.44	0.30	0.54	0.38	0.25
Whitfield	1.79	1.21	0.59	0.42	0.29	0.57	0.43	0.31	0.55	0.43	0.22
Wilcox	1.57	1.02	0.52	0.46	0.23	0.50	0.40	0.24	0.49	0.39	0.22
Wilkes	1.31	0.74	0.38	0.33	0.14	0.36	0.31	0.21	0.48	0.33	0.14
Wilkinson	1.63	0.94	0.57	0.40	0.26	0.58	0.41	0.22	0.51	0.40	0.24
Worth	1.50	0.95	0.48	0.36	0.25	0.51	0.46	0.24	0.47	0.42	0.20

Peak infection percentage in each county in the State of Georgia under all scenarios tested with urban counties highlighted in gray.

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