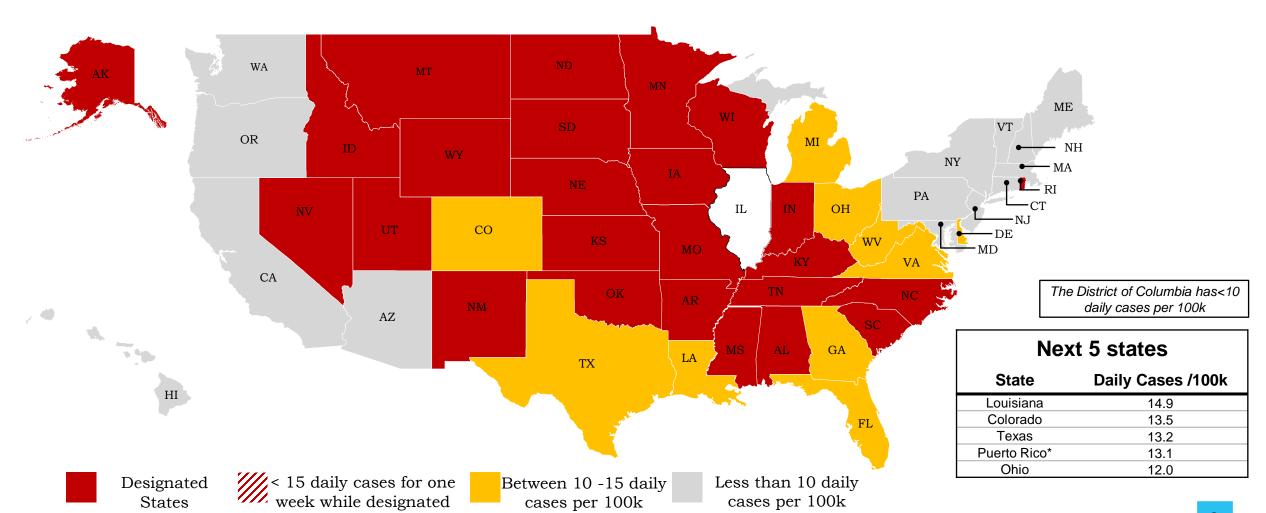


COVID-19 Update

October 13, 2020

*

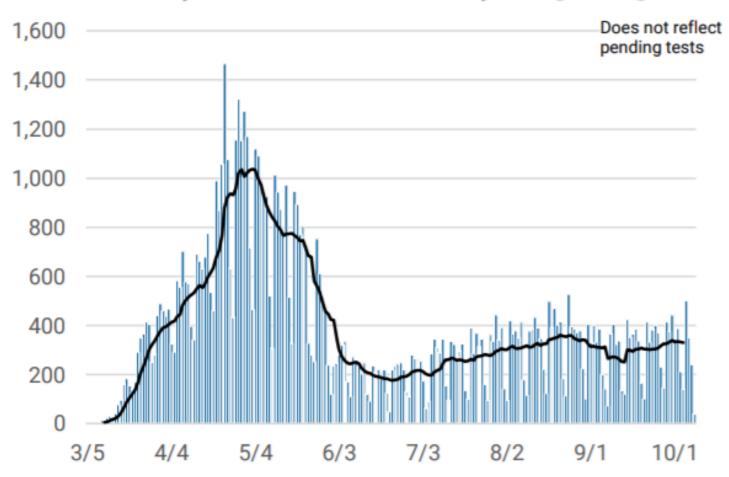
As of 10/12, Chicago's travel order consists of 25 states and Puerto Rico. Indiana, North Carolina, Rhode Island, and New Mexico added.





New Daily COVID-19 Cases, Chicago

Confirmed daily COVID-19 cases and 7-day rolling average



Current

Confirmed cases

364 ▲

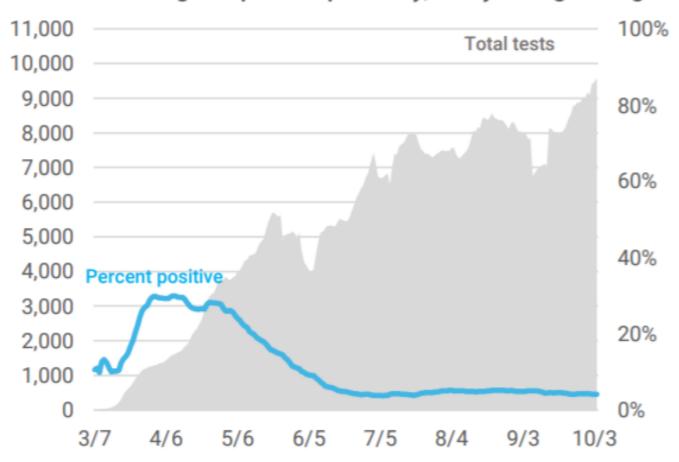


Prior wk.: 332 (10%)



* Testing and Percent Positivity, Chicago

COVID-19 testing and percent positivity, 7-day rolling average



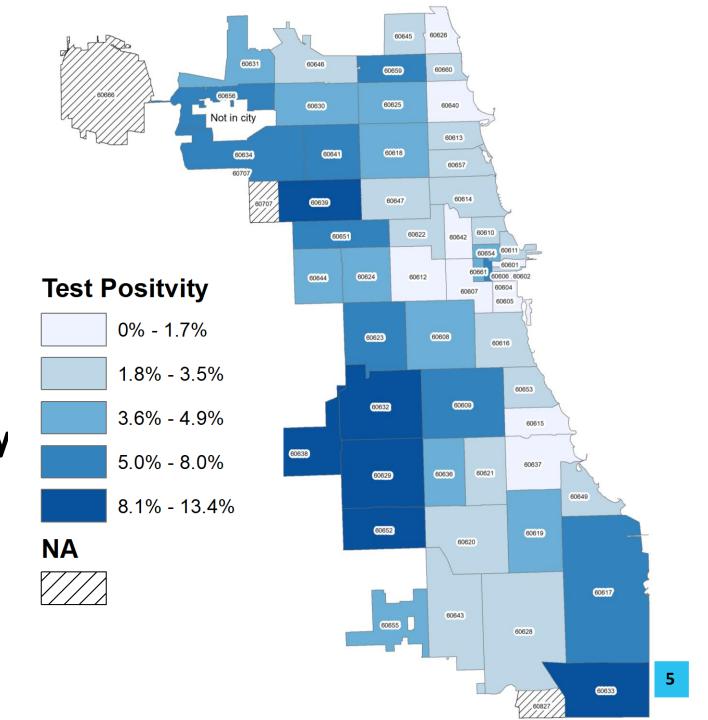
Current Test Positivity 4.4%

Source: chi.gov/coronavirus



Test Positivity by Zip Code

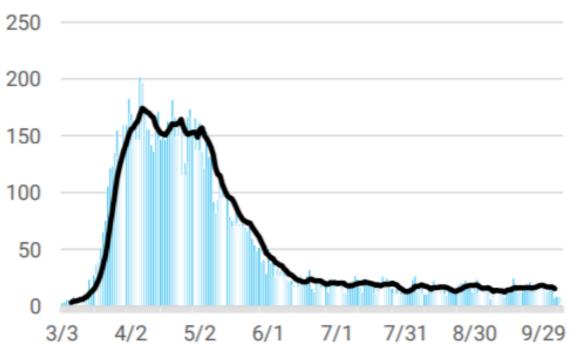
The SW and NW sides of city remain highest in test positivity





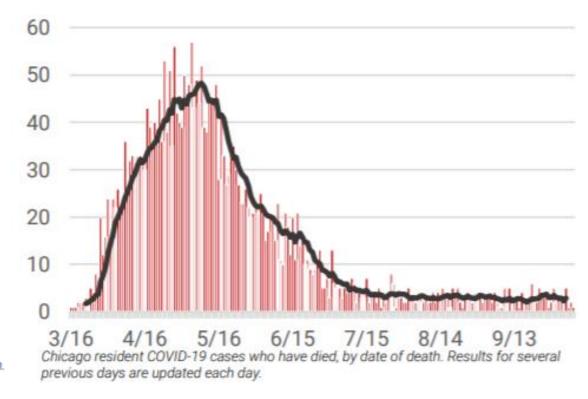
* Hospitalizations and Deaths, Chicago





Chicago resident COVID-19 cases who have been hospitalized, by date of first hospitalization. Results for several previous days are updated each day.

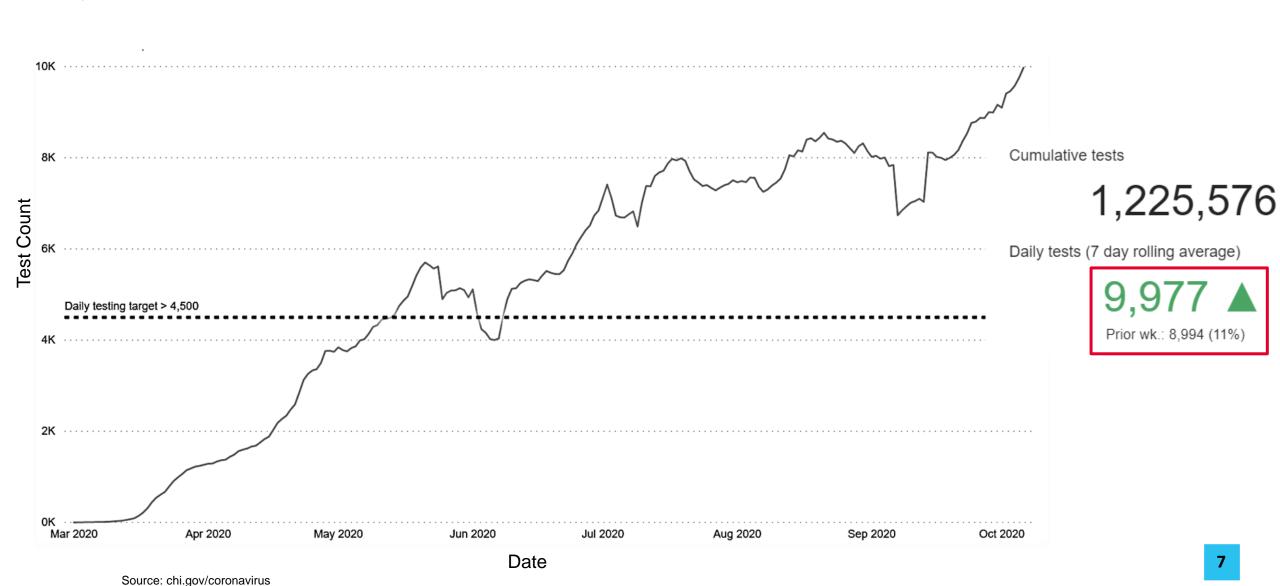
Daily COVID-19 deaths and 7-day rolling average



Source: chi.gov/coronavirus

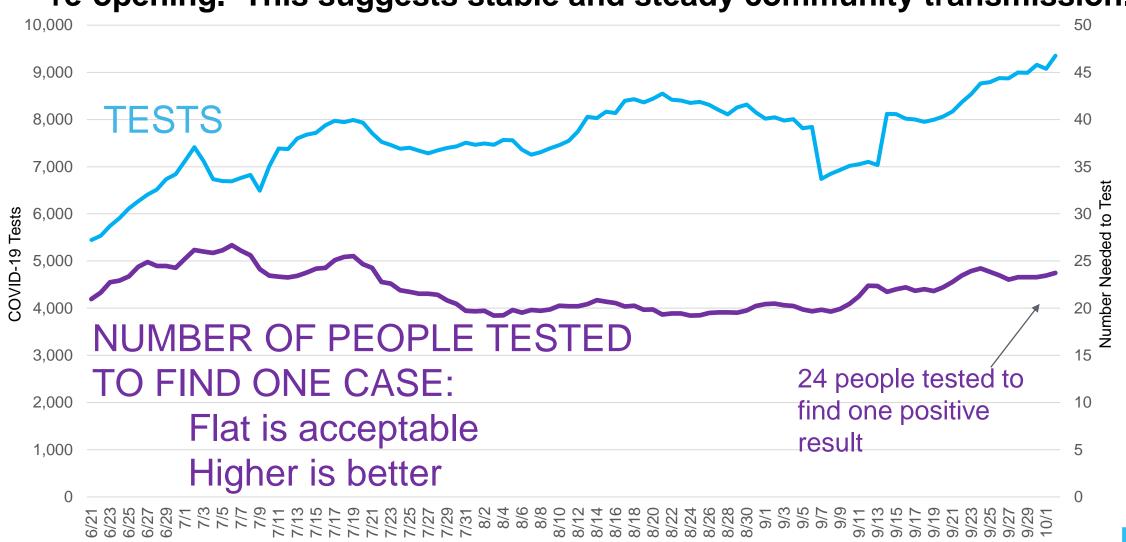


Tests per day (7-day RA) highest ever and growing



Number needed to test (NNT)

Number of tests needed to identify one case has remained stable since re-opening. This suggests stable and steady community transmission.

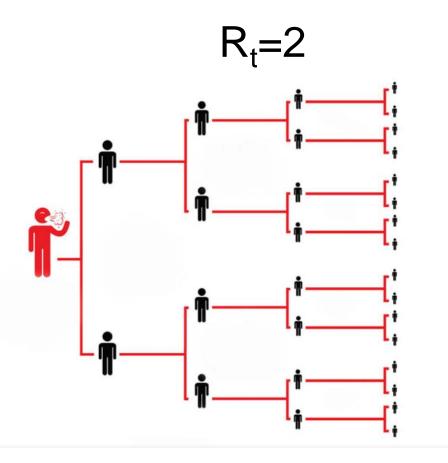




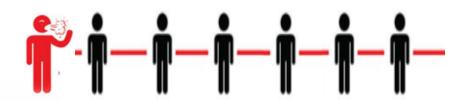
Reproduction number (R_t)

R_t: The *average* number of people who are infected by each person with COVID-19 in Chicago.

How well is the virus reproducing?



 $R_{t}=1$



Each person spreads to an average of **2** other people

Each person spreads to an average of **1** other people



Reproduction number (R_t)

How well is the virus reproducing?

R_t: The *average* number of people who are infected by each person with COVID-19 in Chicago.

- The higher the R_t is above 1, the faster COVID will spread.
- If R_t is below 1, infections will slow.

Very early in our outbreak: R_t in Chicago estimated at **3.62**.

Each person with COVID-19 spread disease to between 3 and 4 other people, on average. That's why our cases rose so quickly.

When we successfully flattened the curve, we did that by changing the conditions to make it harder for the virus to reproduce.

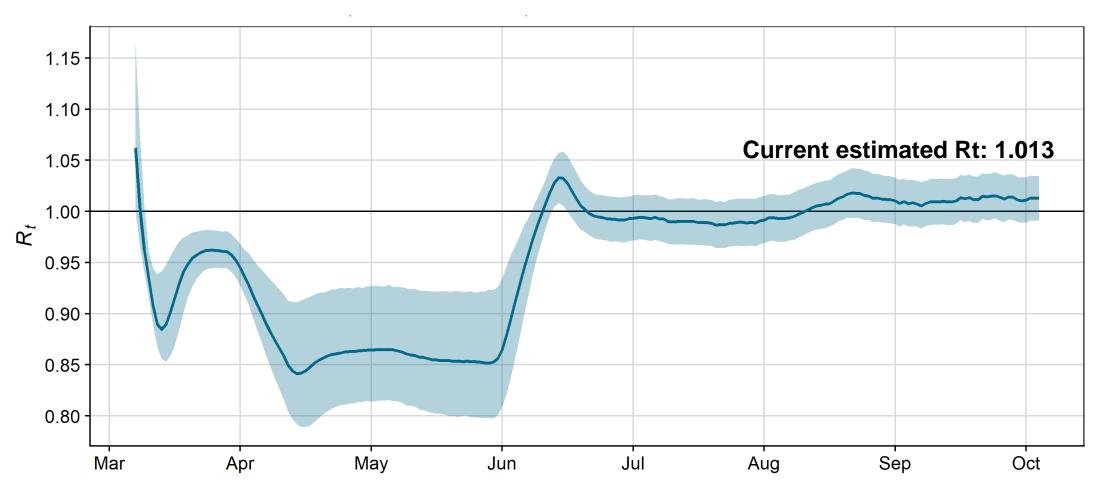
We successfully got Rt down to under 1 (as low as 0.85).

Each person with COVID-19 spread disease to an average of less than other person, meaning many infected people did not spread the disease at all.

Current Rt in Chicago estimated at 1.013.



Reproduction Number (R₊): 1.013 suggests stable outbreak



Chicago



Thank You!



Chicago.gov/Health



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