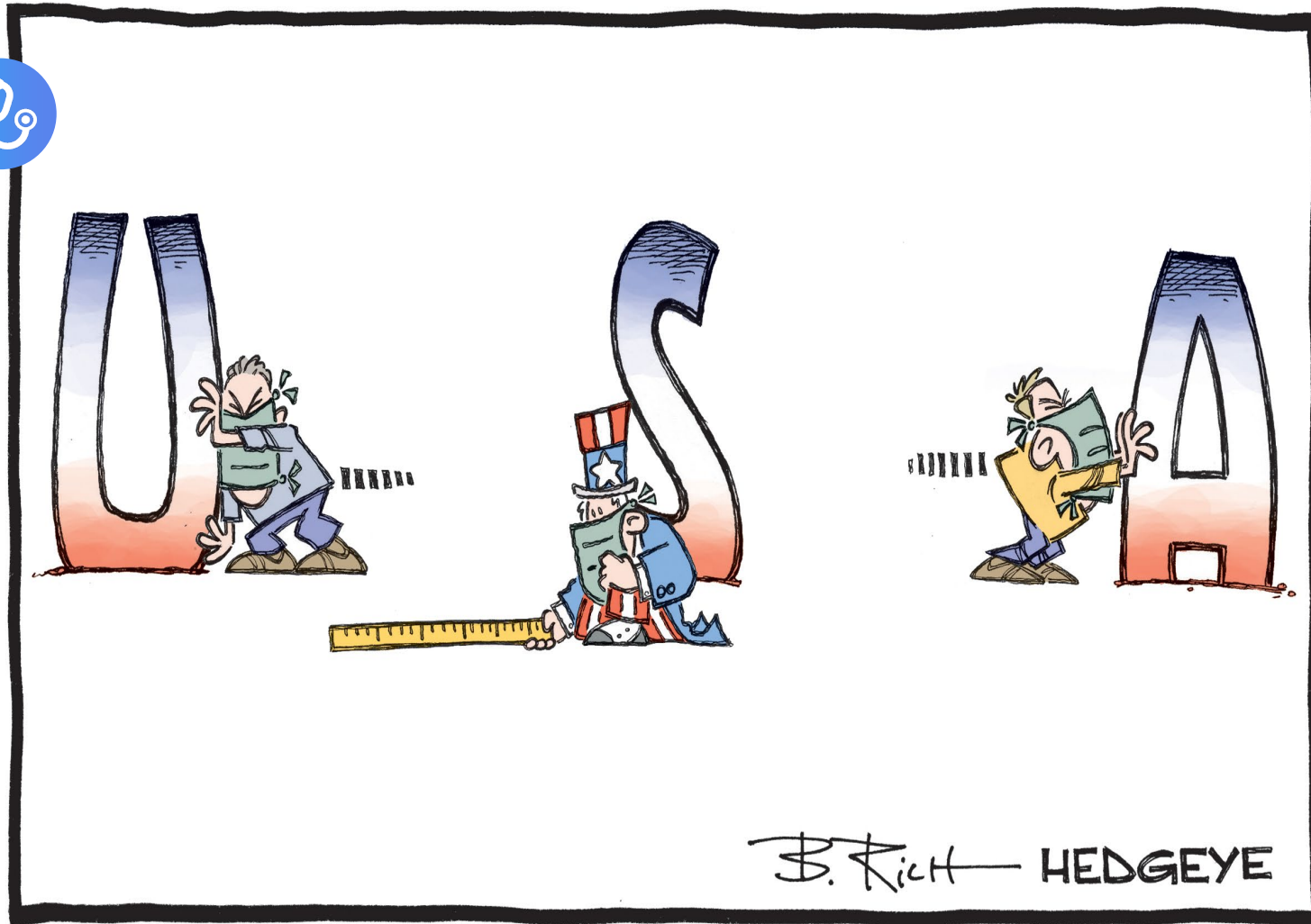


HEDGEYE

COVID-19 Metro Tracker Update

DETROIT, NOLA; GOOGLE MOBILITY DATA

April 8, 2020



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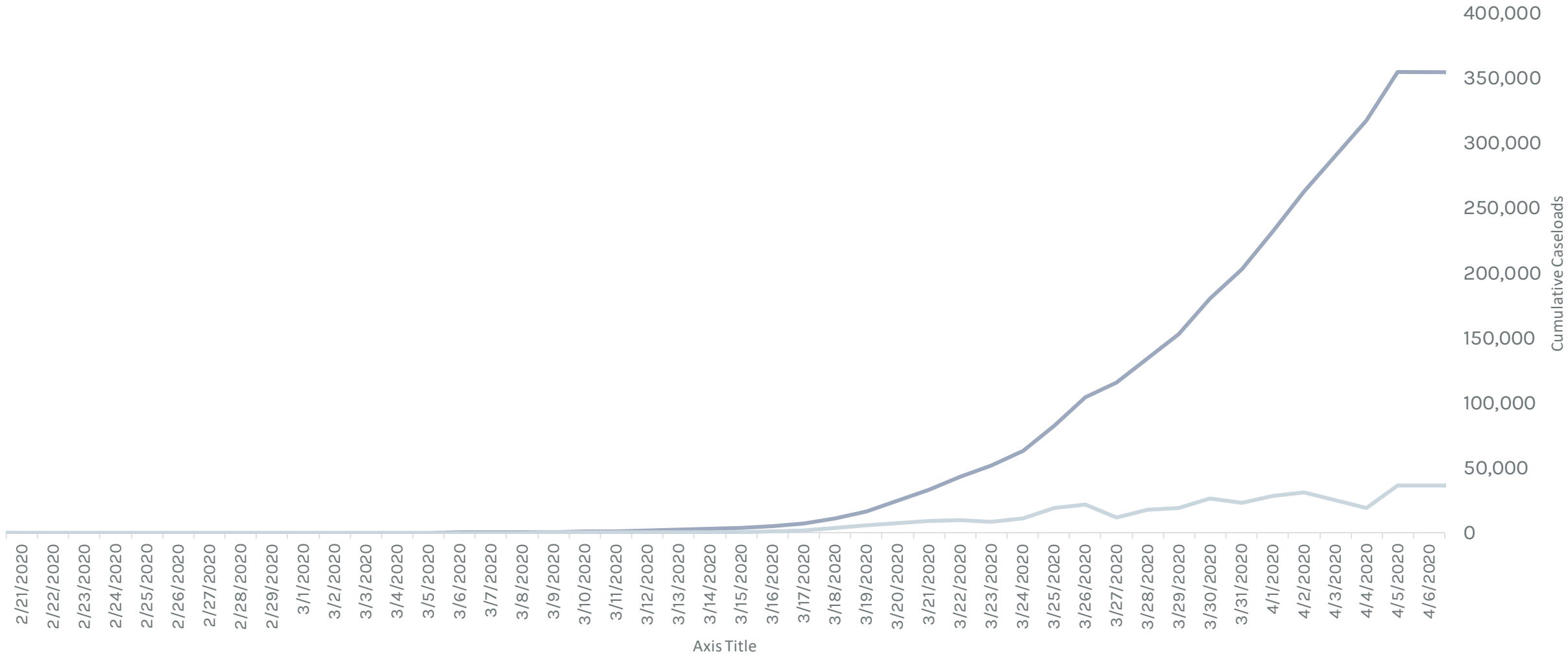
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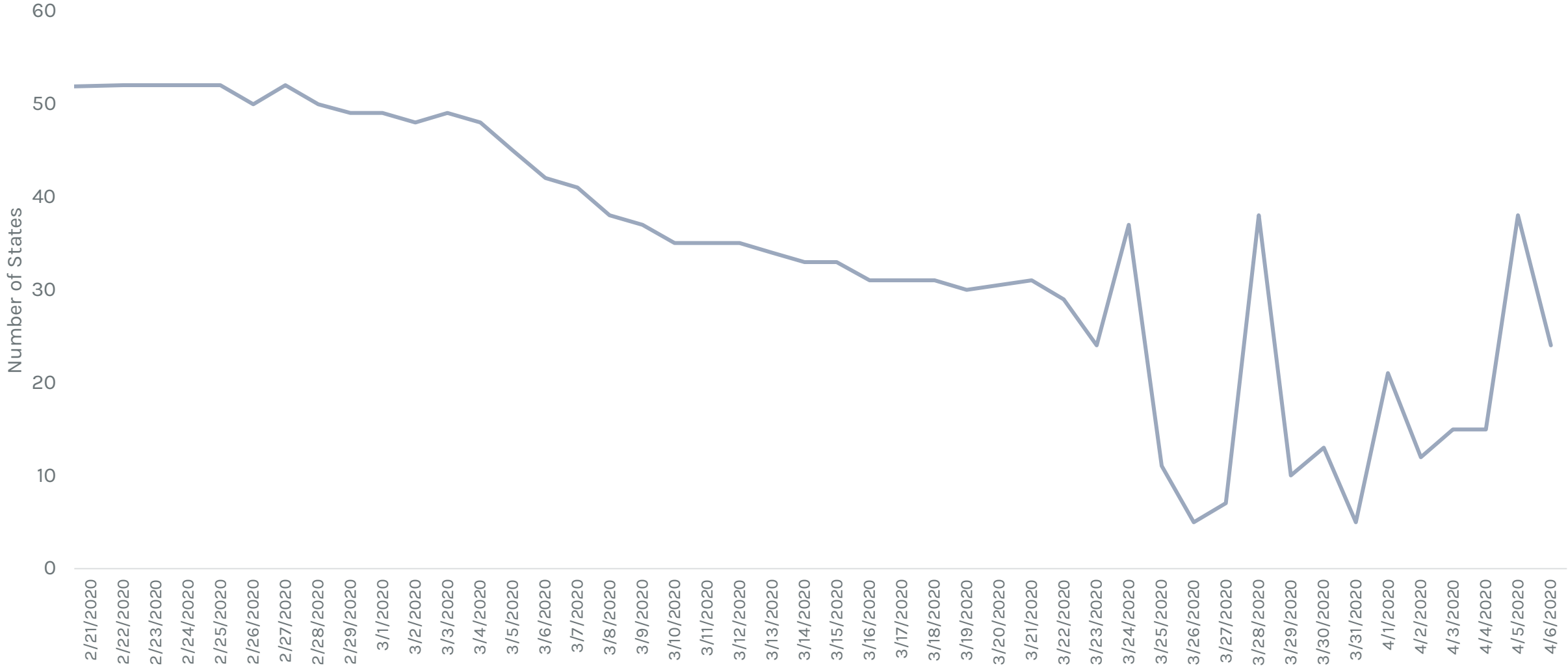
*Answered at the end of the call

US Caseload Volumes

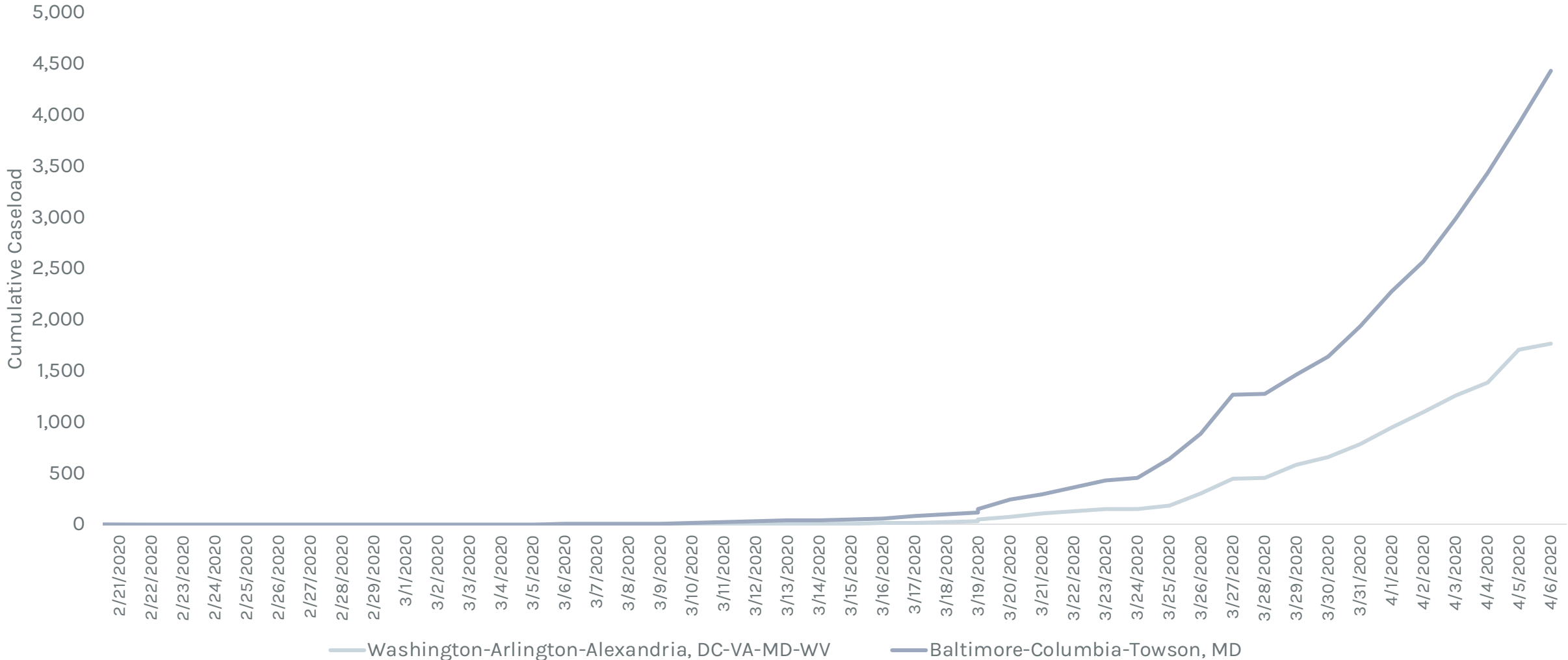
7-day Rate of Change in Cumulative Cases down to 13% from 20%



Number of States with Daily ROC % Below 10%

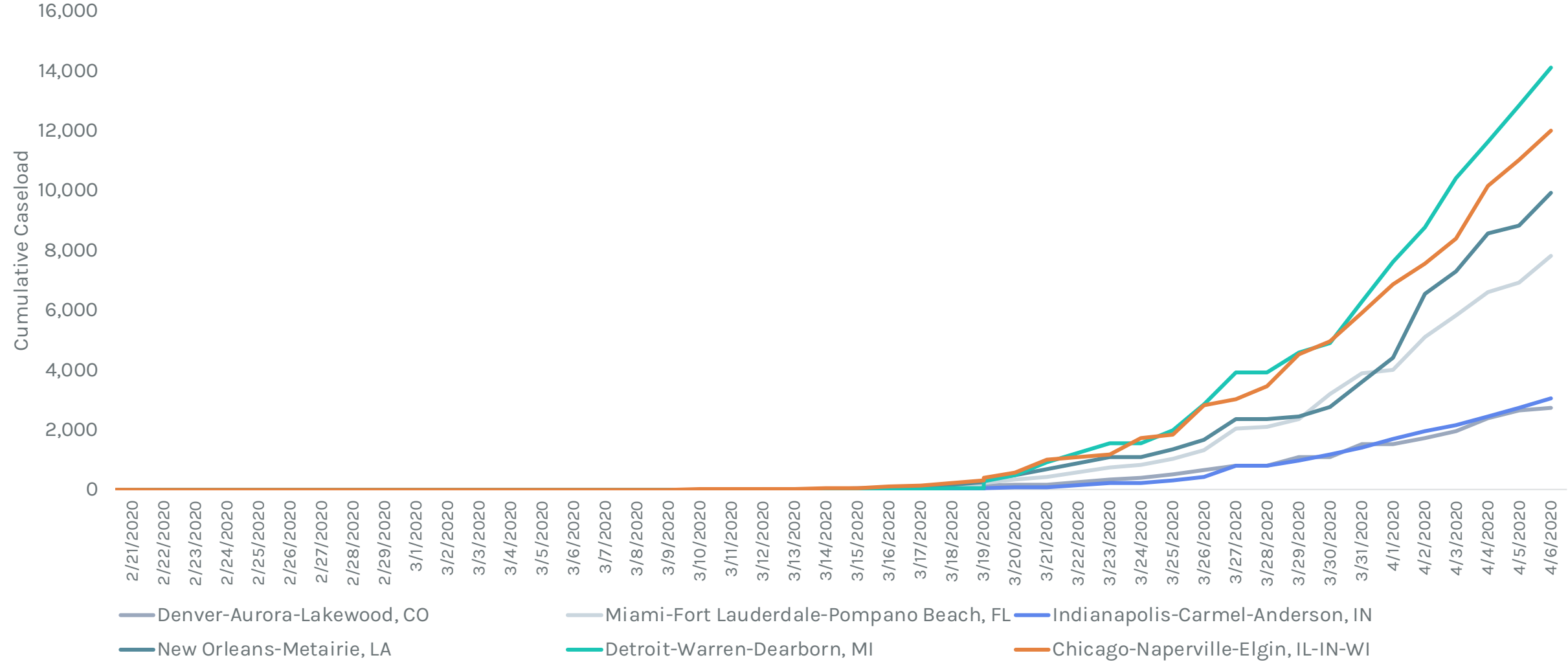


New Hotspots - Baltimore-Washington Area

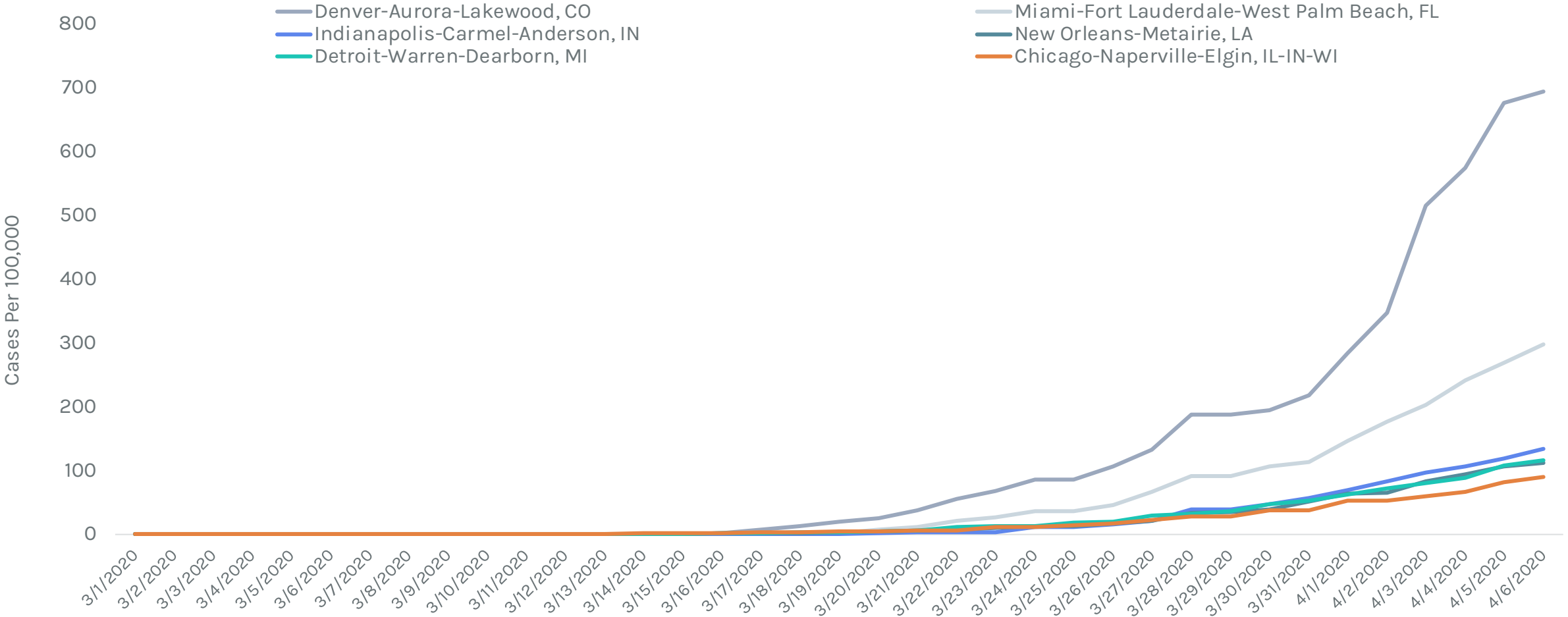


New Hotspots - Cumulative Caseload

Less health care infrastructure to support surge

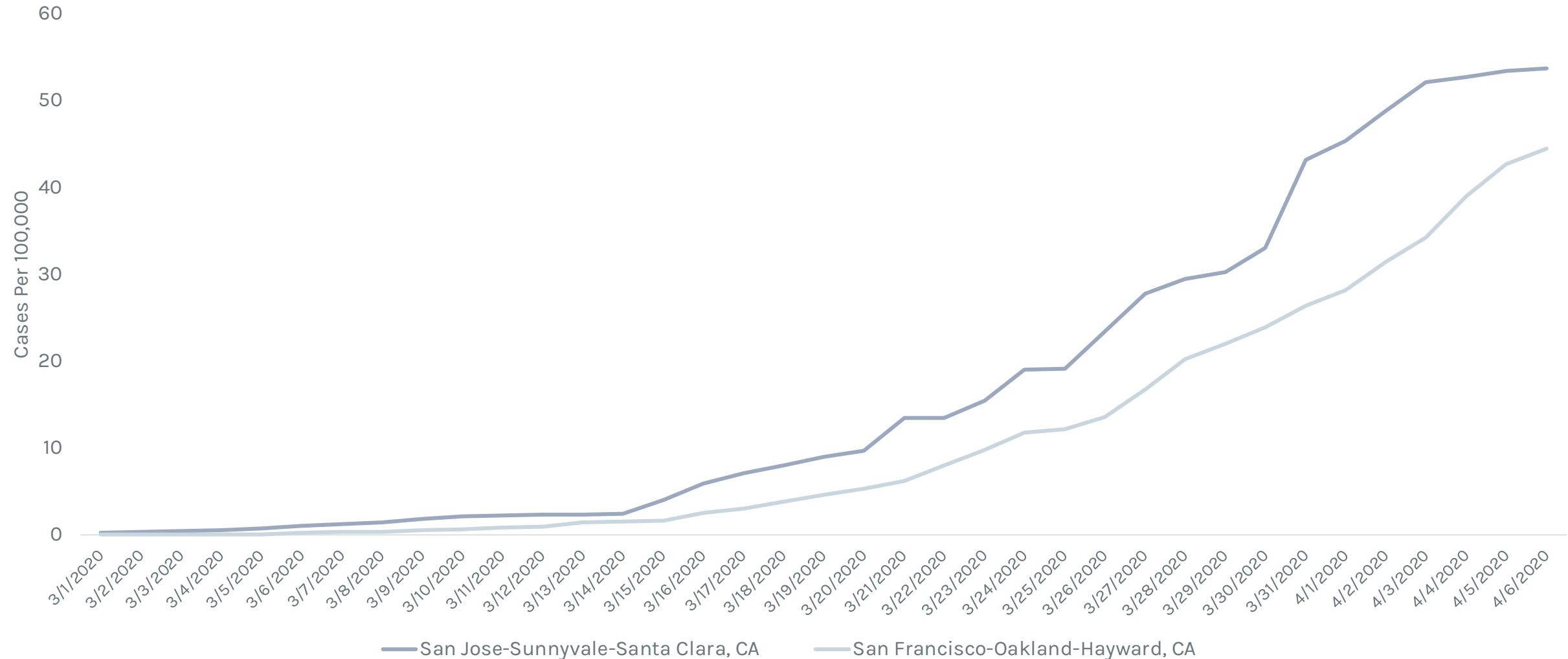


New Hotspots - Caseload Per 100,000

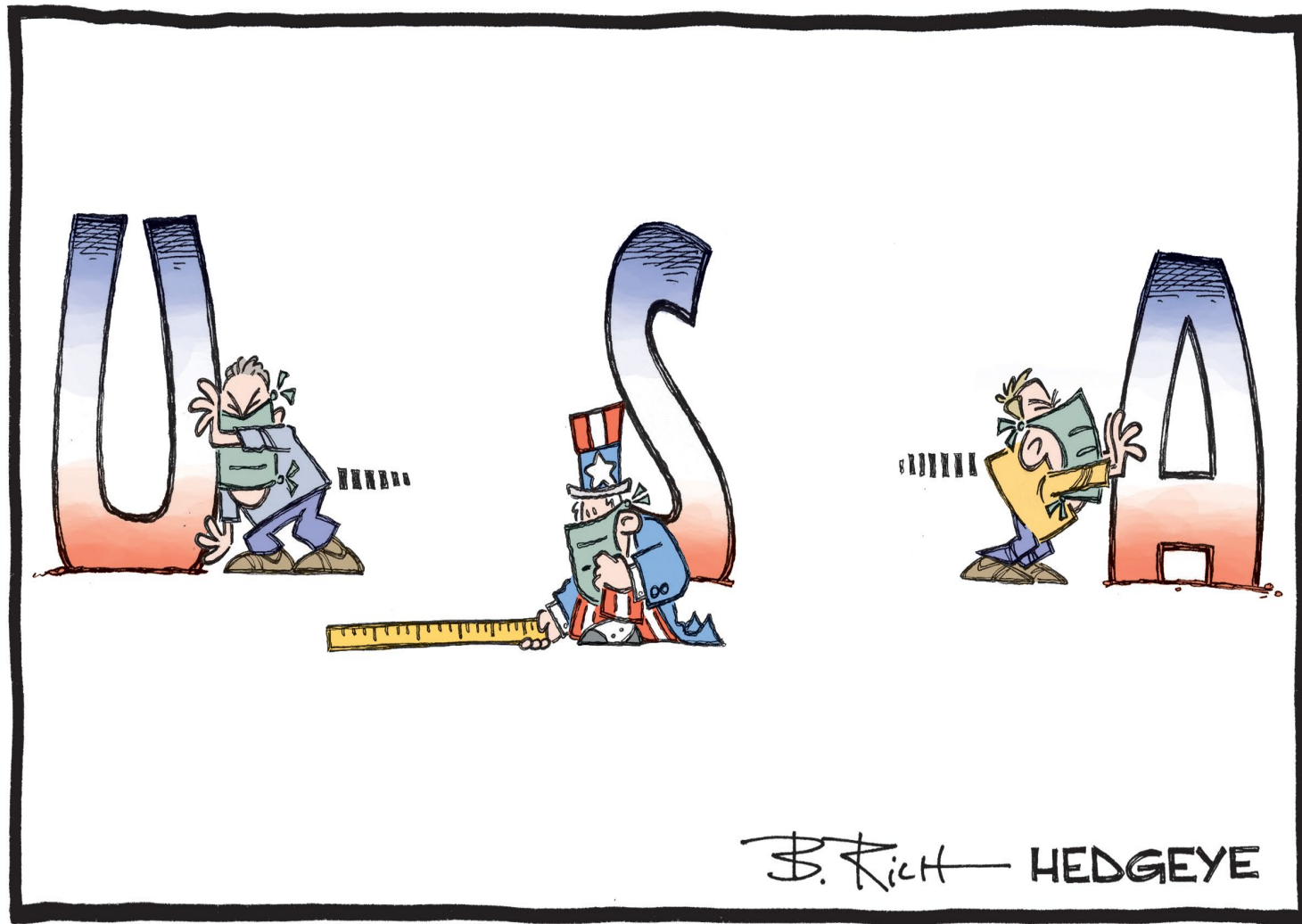


Northern California – What a Pretty Curve!

Cases per 100,000 in two major northern California Metros



Surveillance and Containment



Components of Robust Surveillance System

Local Test & Trace

- Capacity to conduct rapid diagnostic testing for:
 - Symptomatic
 - Known Exposures
 - High Risk for Contracting

National Surveillance

- Surveillance system based on syndromic indicators such as fever, loss of sense of smell, cough, shortness of breath
- Timely and transparent reporting at national and local level

Serologic Testing

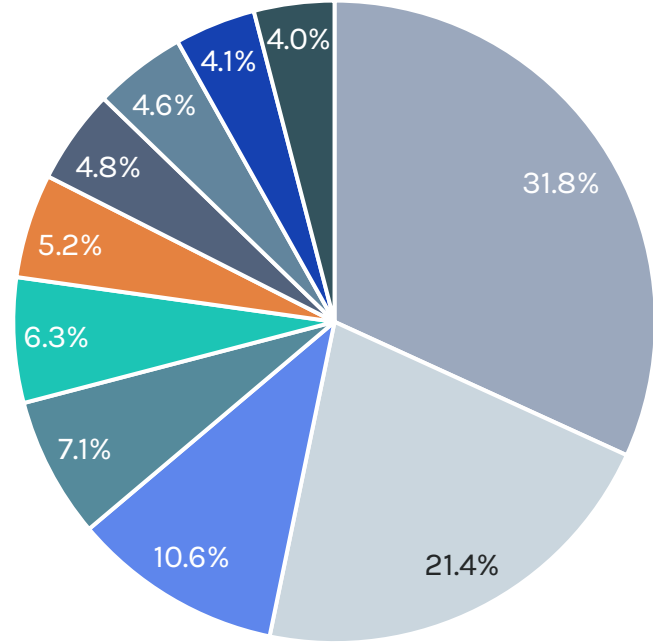
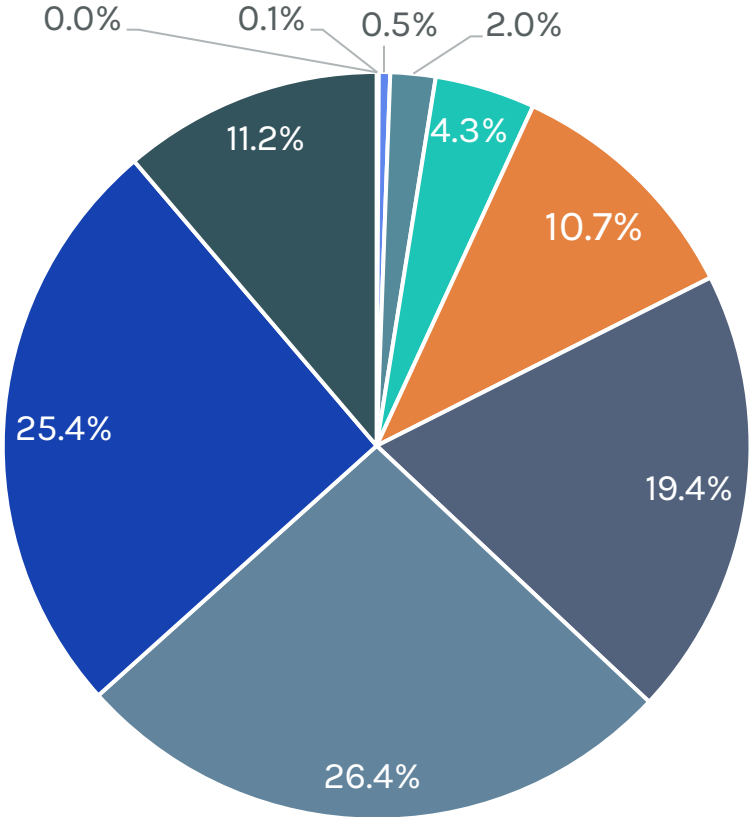
- Development of regional measures of community exposure and immunity
- Use and integration of serologic testing of individuals for effective surveillance and containment

Rapid Response

- Capacity to isolate new cases and trace, test and quarantine contacts rapidly
- Capacity to treat new cases at home or hospital

New York's Gift to the World: Data

Fatalities by Age

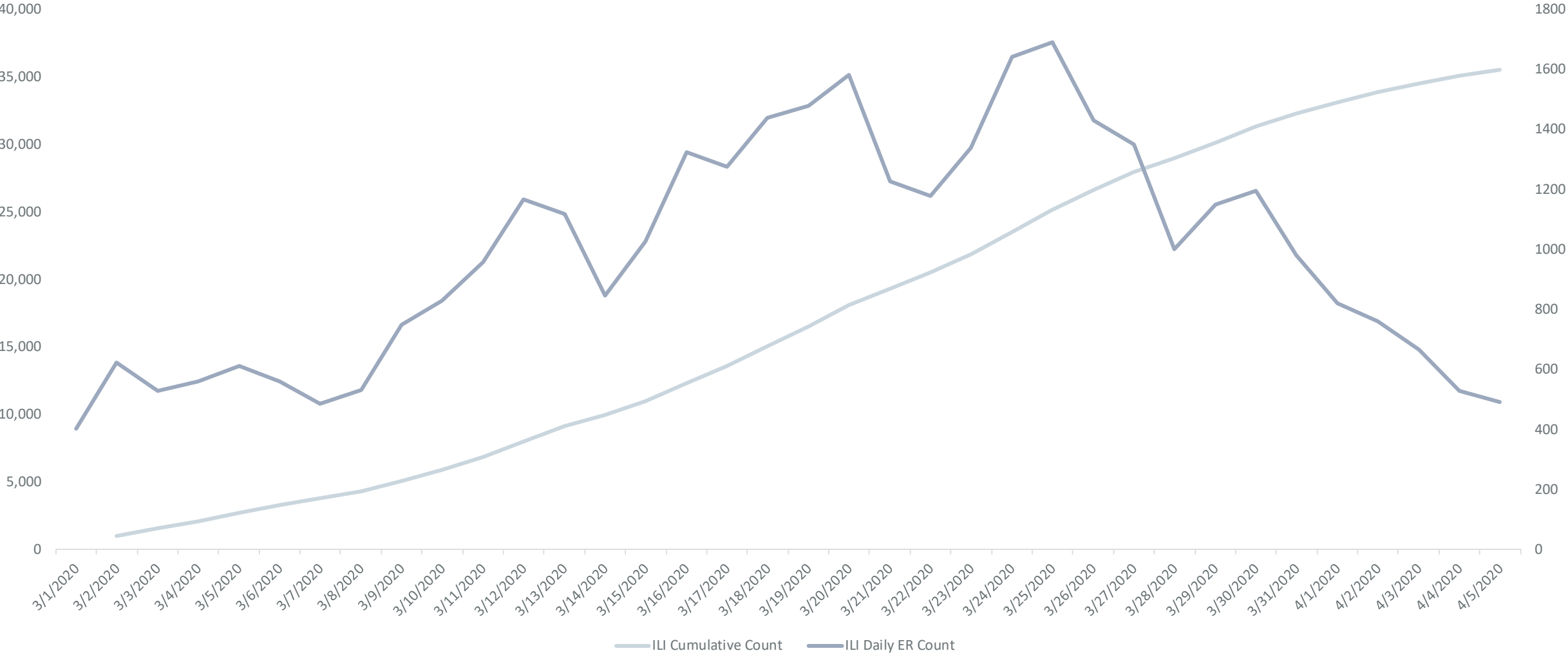


- 0 to 9
- 10 to 19
- 20 to 29
- 30 to 39
- 40 to 49
- 50 to 59
- 60 to 69
- 70 to 79
- 80 to 89
- 90 and Over

- Hypertension
- Diabetes
- Hyperlipidemia
- Coronary Artery Disease
- Renal Disease
- Dementia
- COPD
- Cancer
- Afib
- Congestive Heart Failure

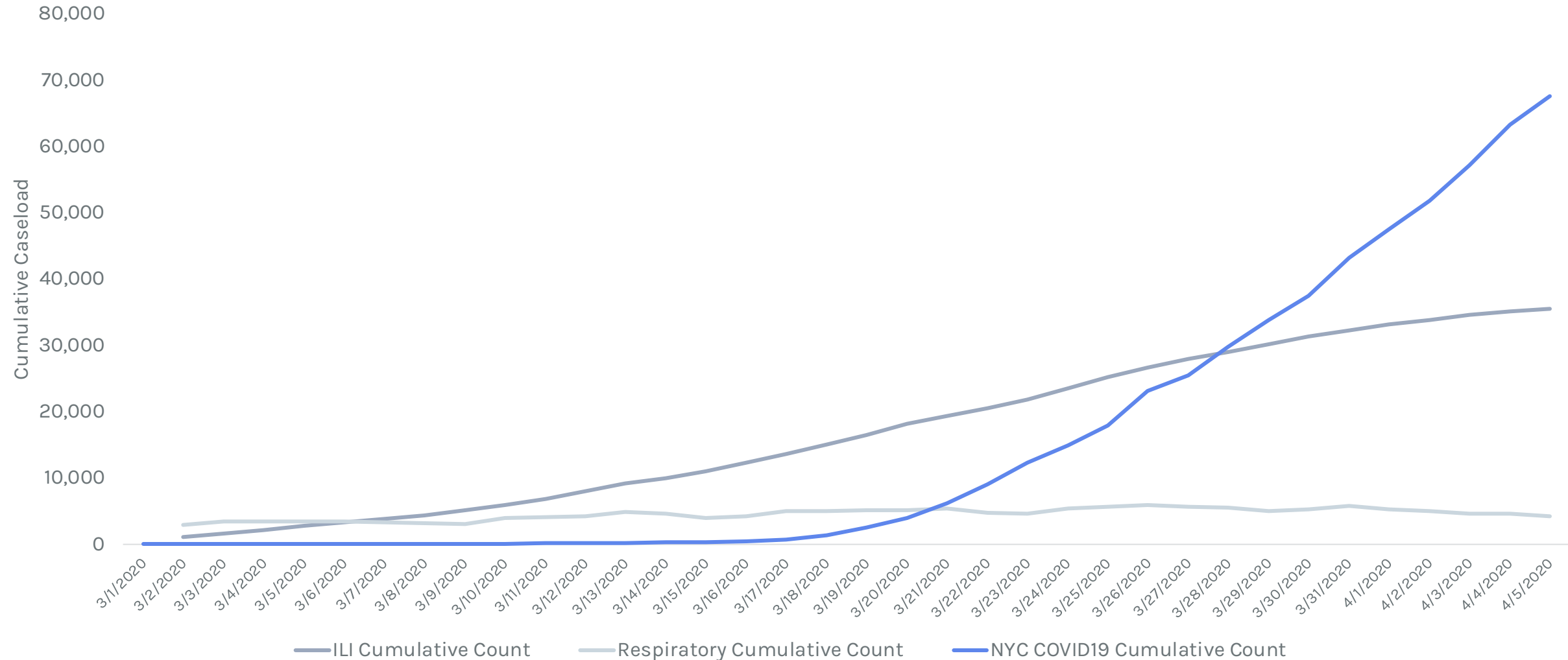
Early Warning System Already Stood Up in NYC

Bell started to ring in early March



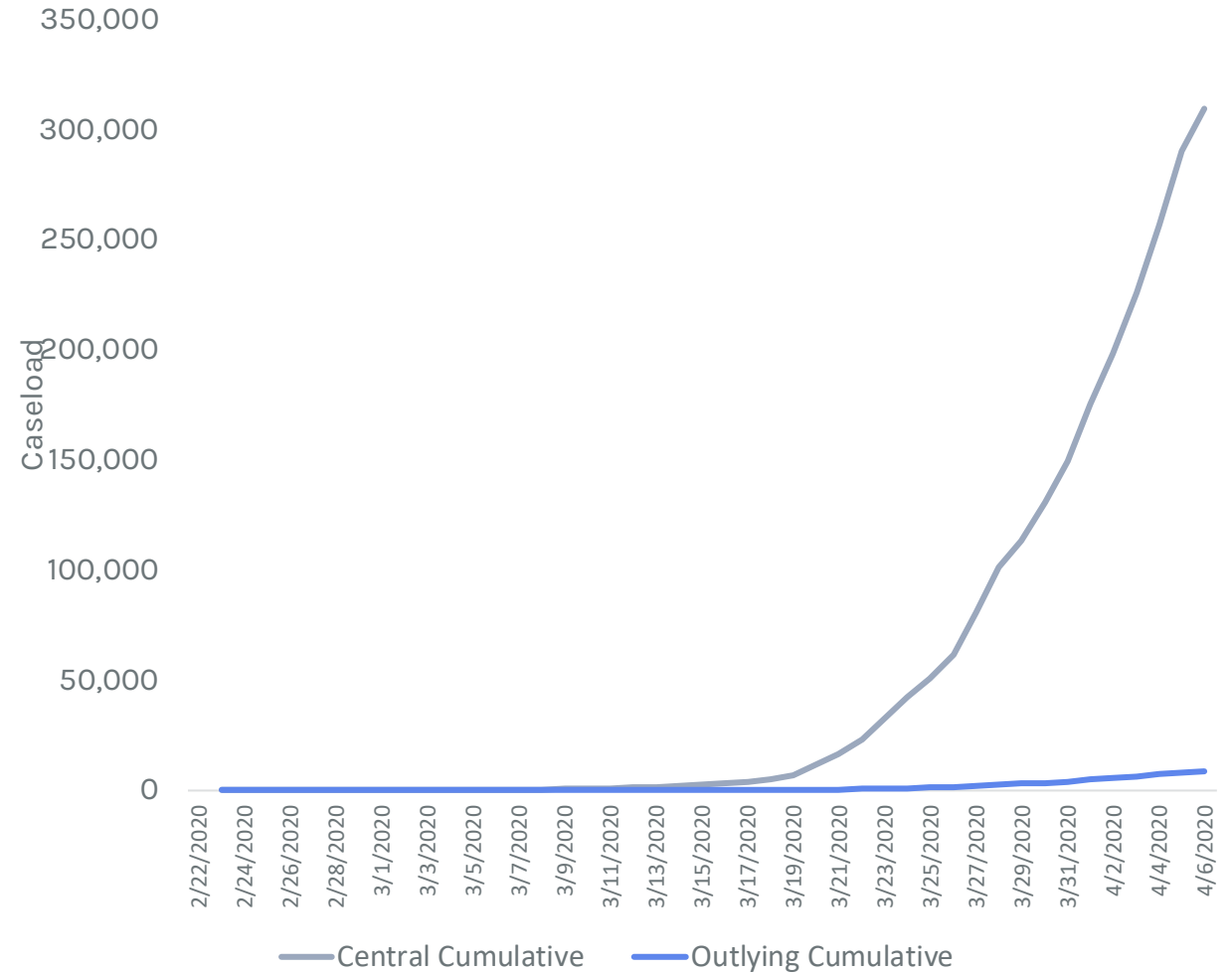
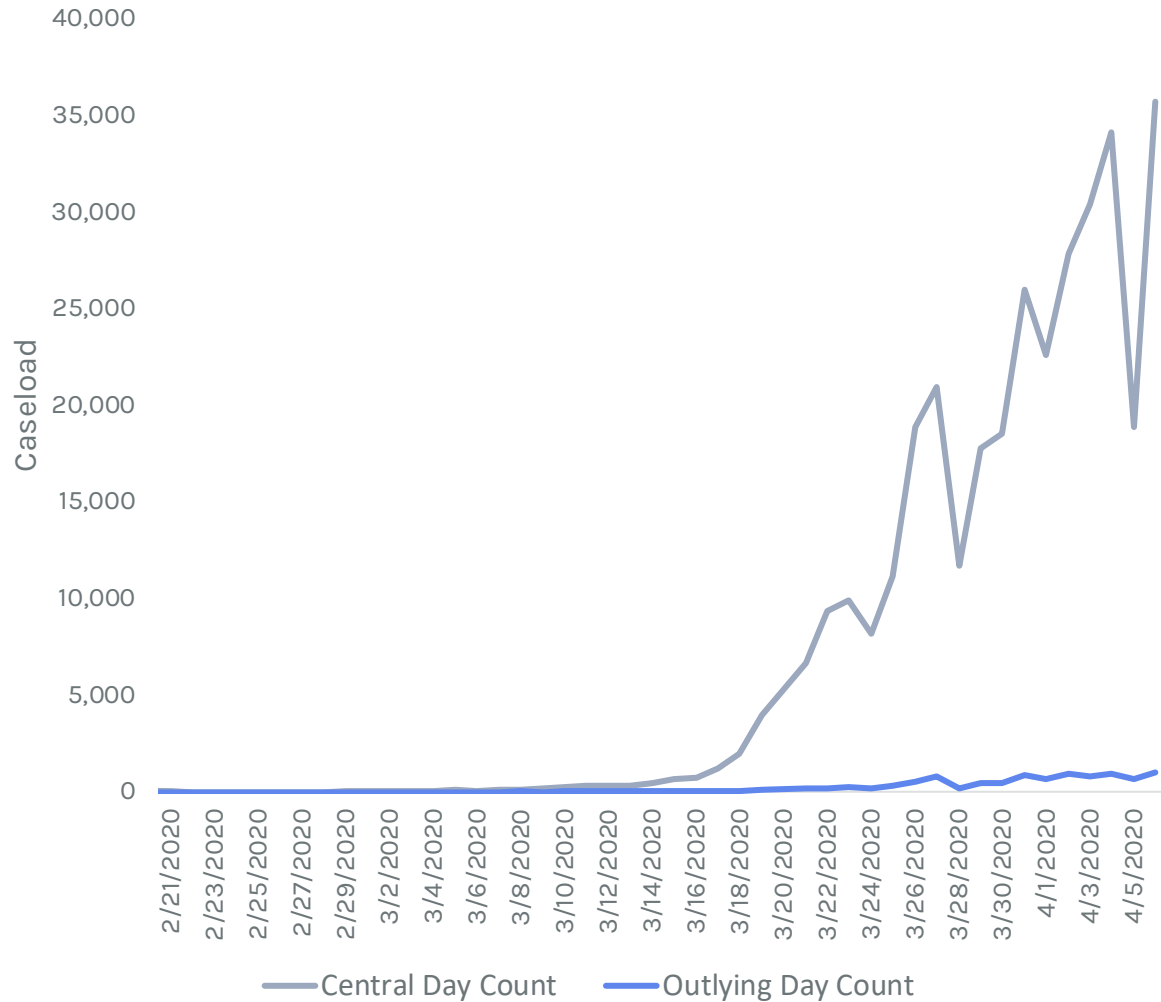
Early Warning System Already Stood Up in NYC

Alas, the early signals were ignored



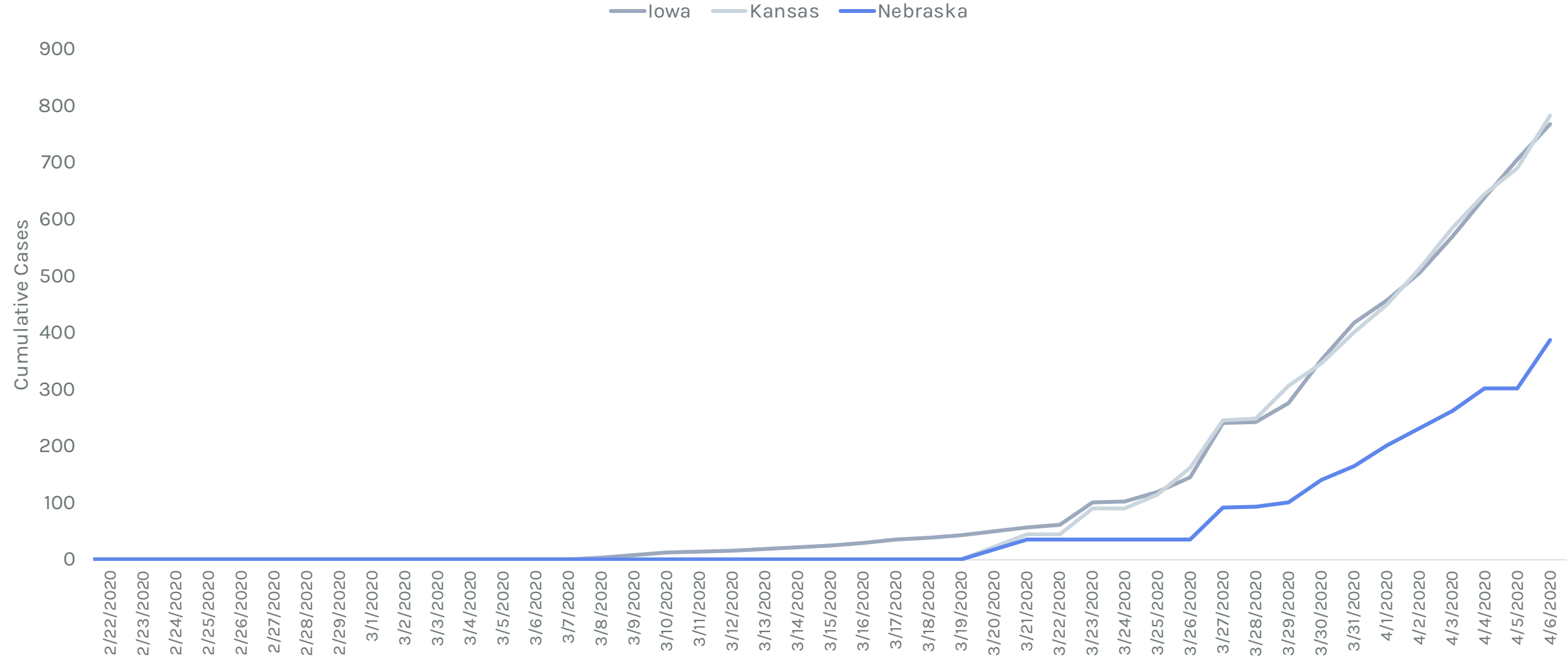
Rural v Urban Counties Caseload

Bodes well for case-level instead of population-level management



Iowa, Kansas & Nebraska

Cruise-related cases have been isolated and case managed



Massachusetts Has Begun

Planning to Hire 1,000 Contact Tracers

Contact Tracer

Partners in Health - Remote, MA, United States

Partners In Health, is seeking Contact Tracers to support Massachusetts Department of Public Health and Local Boards of Health to perform COVID-19 contact tracing.

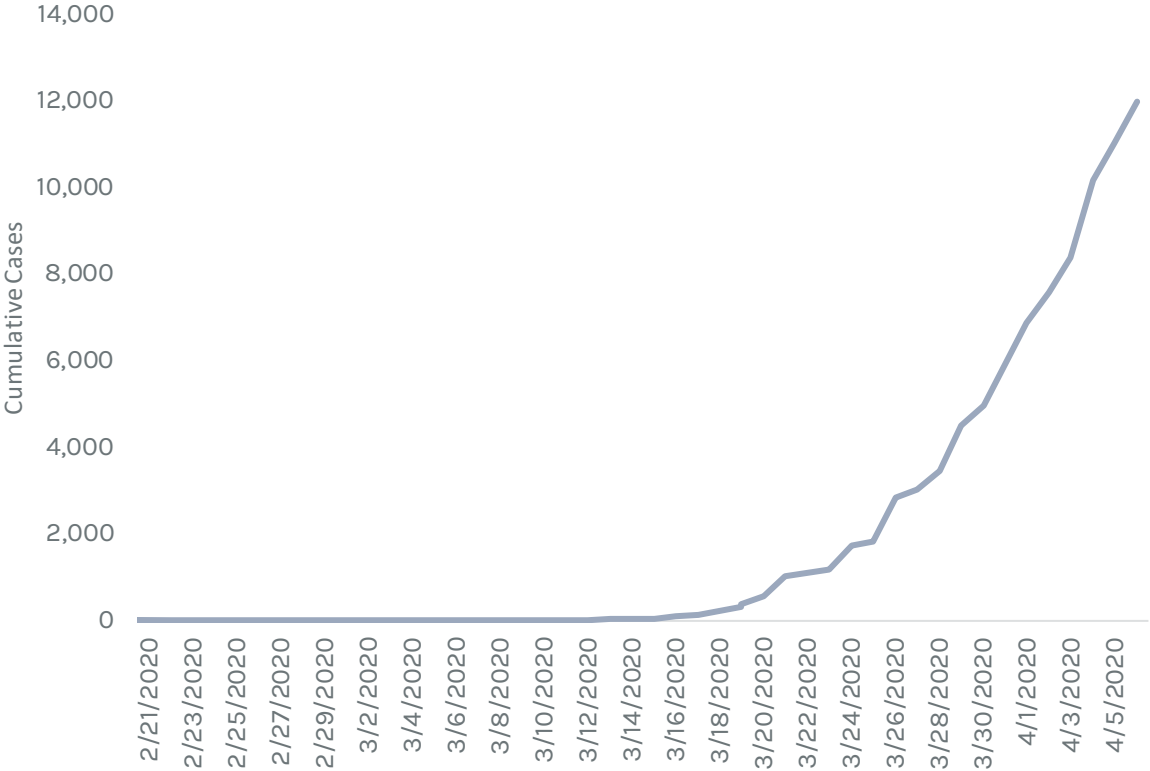
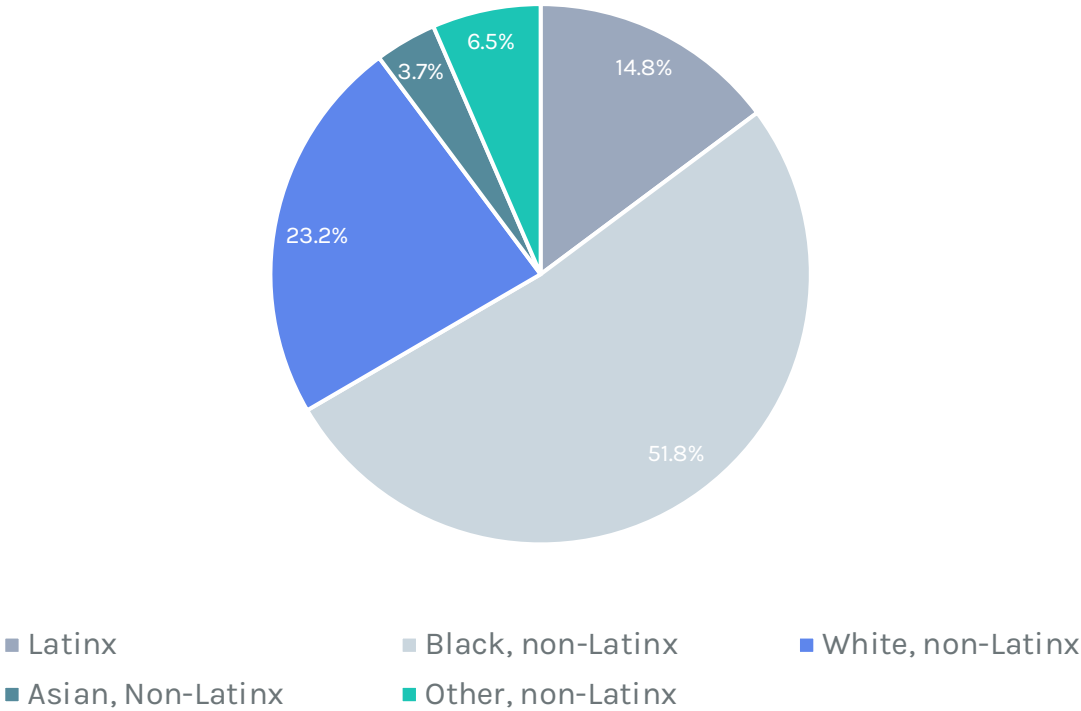
Partners In Health (PIH) will hire, train and supervise a team of community contact tracing staff across Massachusetts. The aim of this will be to call every person diagnosed with COVID-19, gather their contacts, and proceed to call every contact in Massachusetts. This is in tandem with Commonwealth-wide efforts to increase testing, improve communication and implementation of isolation and quarantine. This will fortify efforts to control the pandemic in Massachusetts.

The Contact Tracer will use a web-based client resource management (CRM) platform to call all contacts of anyone diagnosed with COVID-19 to document a symptom check, refer them for testing according to established protocols, and provide them with instructions for quarantine. Contact Tracers are required to follow all scripts, policies and procedures provided by PIH, and comply with Department of Public Health training regarding confidential information related to personal information.

Responsibilities

- Call contacts of newly diagnosed patients.
- Communicate with contacts in a professional and empathetic manner.
- Collect and record information on symptoms into the CRM.
- Provide contacts with approved information about Massachusetts quarantine procedures, and if appropriate, refer them to testing according to protocol and/or to a COVID-19 Care Resource Coordinator for social resources.
- Contact tracers will follow the script to inform contacts about the importance of quarantine and what to do if symptoms develop. They are not permitted to deviate from the script or provide information that is not included in the script.
- Contact tracers will be required to use their own telephone, computer and electronic equipment.
- Maintain daily contact with supervisor.

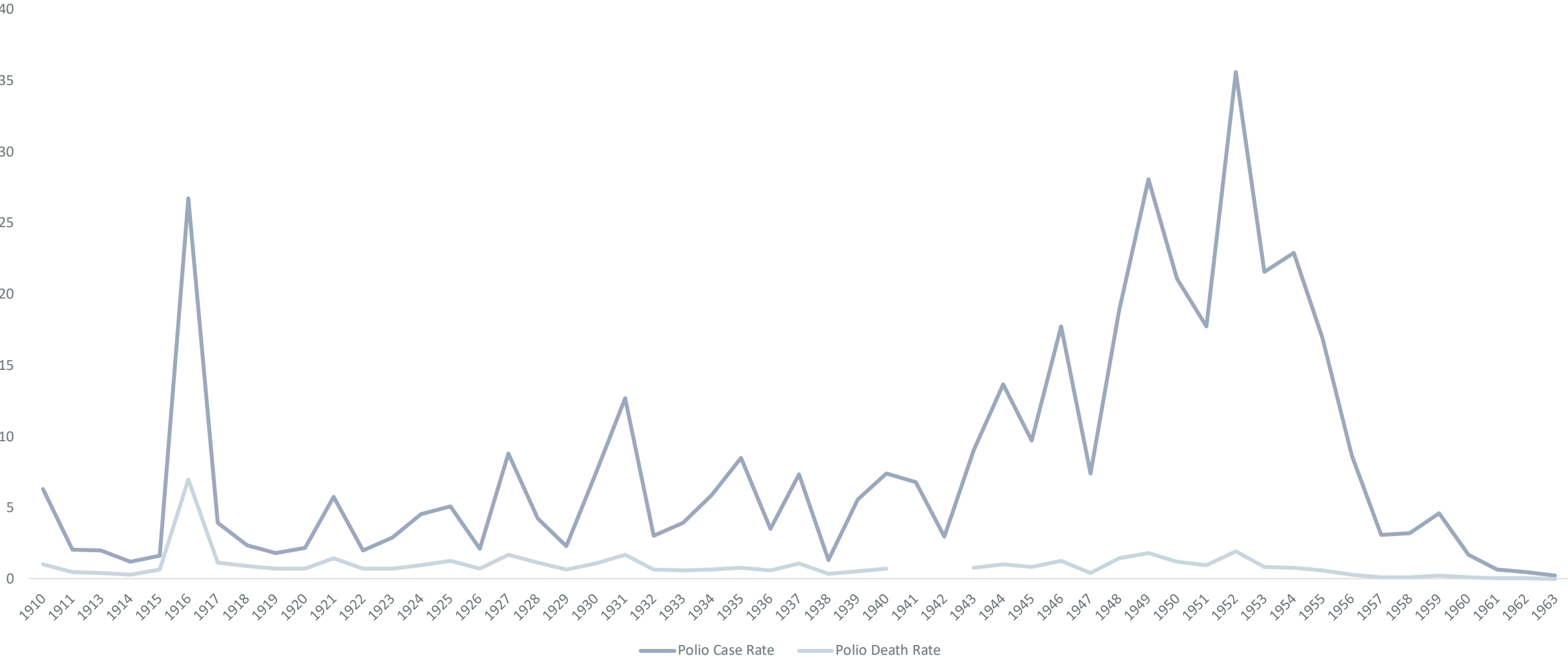
Racial/Ethnic Disparities in Fatalities in Chicago



Underlying health conditions are likely the cause rather than any racial/ethnic correlation.

Living with Polio

Until a vaccine was found, American communities managed “polio season”



Living with Polio

Polio Pledge Used in Mid-20th Century

POLIO PLEDGE

If Polio Comes to my Community

I will remember to...

- Let my children continue to play and be with their usual companions. They have already been exposed to whatever polio virus may be in that group, and they may have developed immunity (protection) against it.
- Teach my children to scrub their hands before putting food in their mouths. Polio virus may be carried into the body through the mouth.
- See that my children never use anybody's towels, wash cloths or dirty drinking glasses, dishes and tableware. Polio virus could be carried from these things to other people.
- Follow my doctor's advice about nose and throat operations, inoculations, or teeth extractions during the polio season.
- Be ever watchful for signs of polio: headache, fever, sore throat, upset stomach, tenderness and stiffness of the neck and back.
- Call my doctor at once and, in the meantime, put to bed and away from others any member of my family showing such symptoms.

I will not...

- Allow my children to mingle with strangers, especially in crowds, or go to homes outside their own circle. There are three different viruses that cause polio. My children's group may be immune to one of these. Strangers may carry another polio virus to which they are not immune.
- Let my children become fatigued or chilled. Over tired or chilled bodies are less able to fight off polio.
- Take my children away from our community without good cause. Polio time is the time to stay at home and keep everyday companions.

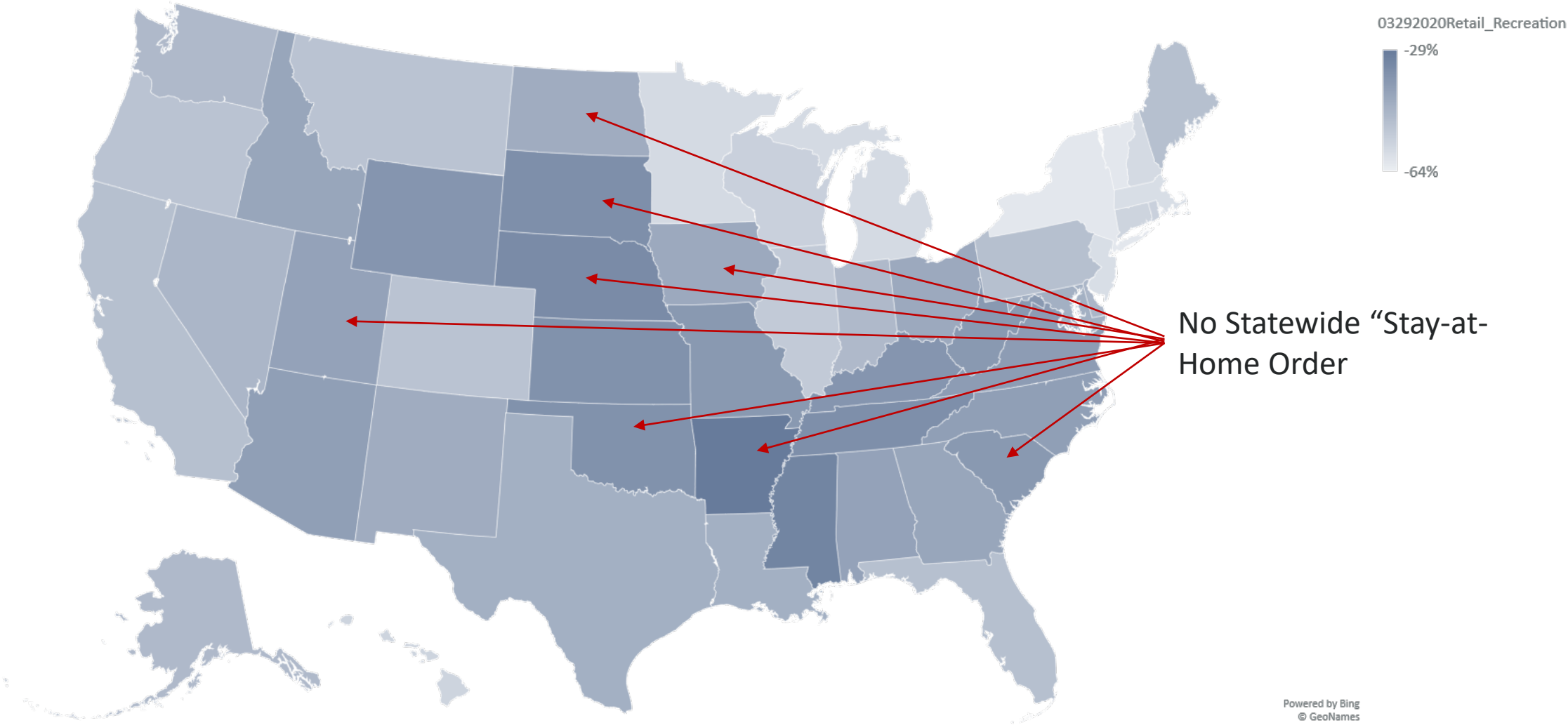
If Polio Comes to My Home

I will...

- Have confidence in my doctor, knowing the earlier the care the better my child's chances for complete recovery. I know that my child has a better than even chance to recover without paralysis.
- Call my local chapter of the National Foundation for Infantile Paralysis immediately for information or help. The telephone book or my health department will tell me how to reach the chapter.
- Remember that whatever financial help my family needs for polio care will be given through the chapter. This is made possible by the gifts of the American people to the March of Dimes each January.

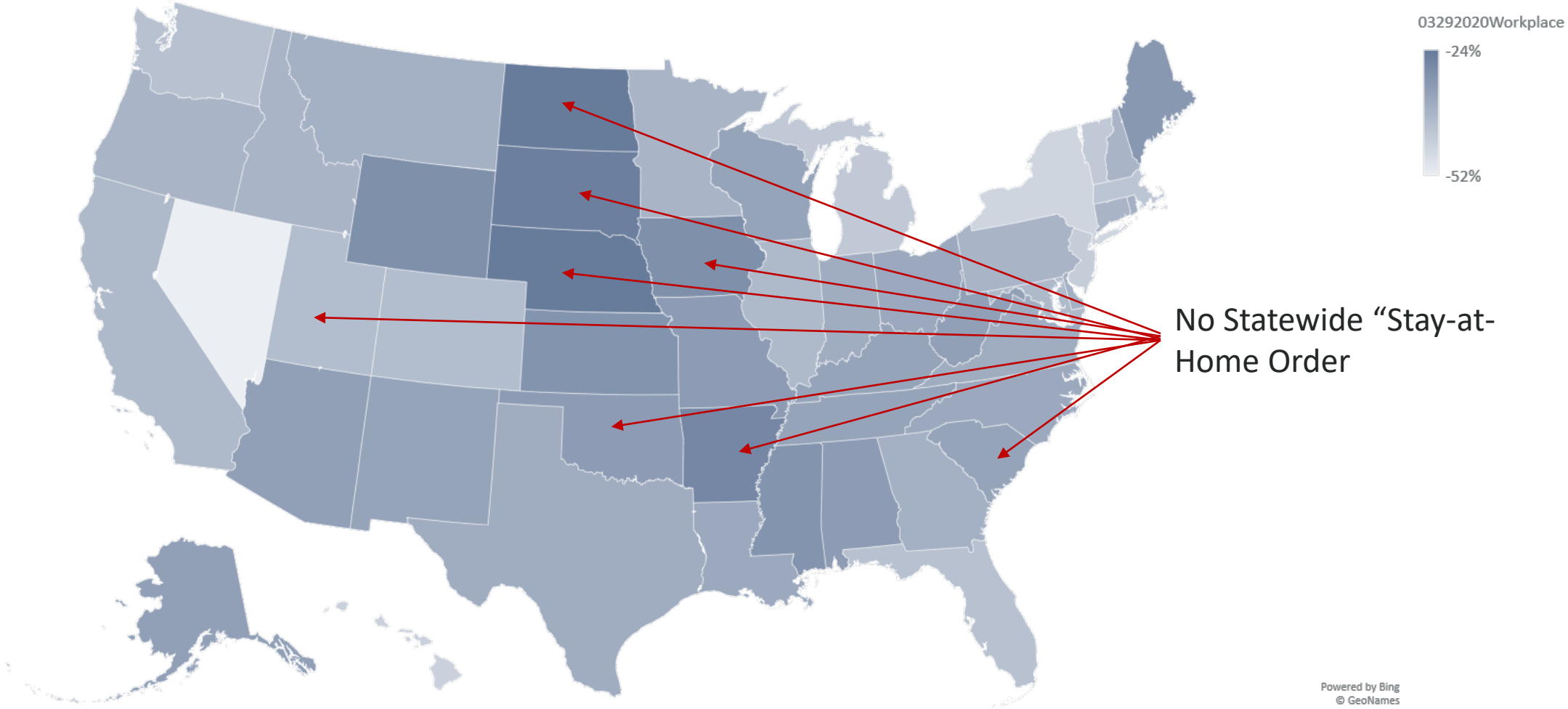
Visits to Retail and Recreational Locations

Google Mobility Data, March 29, 2020



Visits to Workplace

Google Mobility Data, March 29, 2020



Decisions Made Decades Ago, Reap Rewards Today

Pandemic response brought to you by:



For more information, contact us at:

sales@hedgeye.com

(203) 562-6500