



<https://uwjusticelab.wisc.edu>

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# COVID in Confined Spaces

## Flattening the Curve in Dane County

# In Memoriam



Deputy Richard "Rick" Treadwell





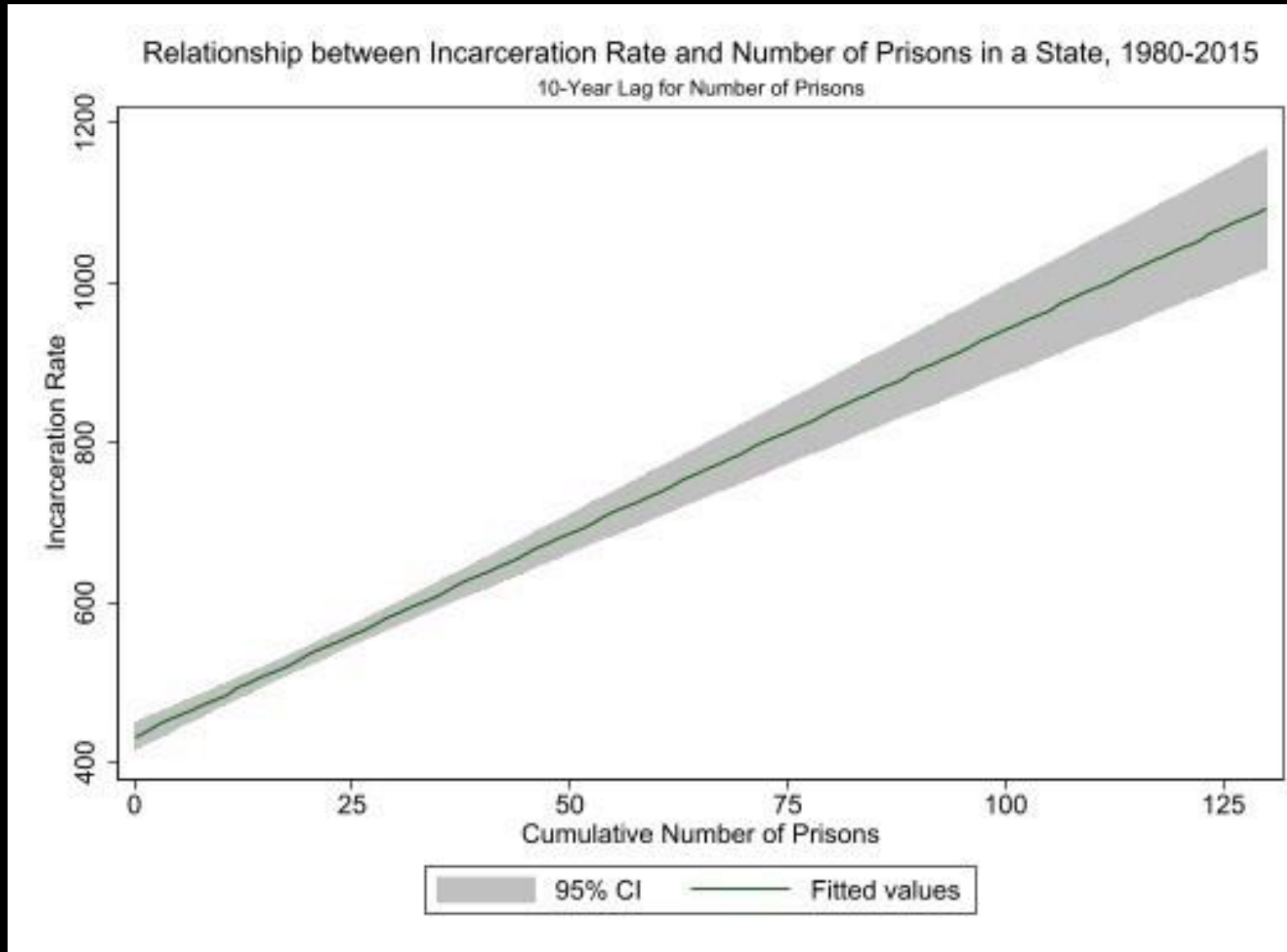
<https://uwjusticelab.wisc.edu/about/>

# Flattening the Curve in Dane County

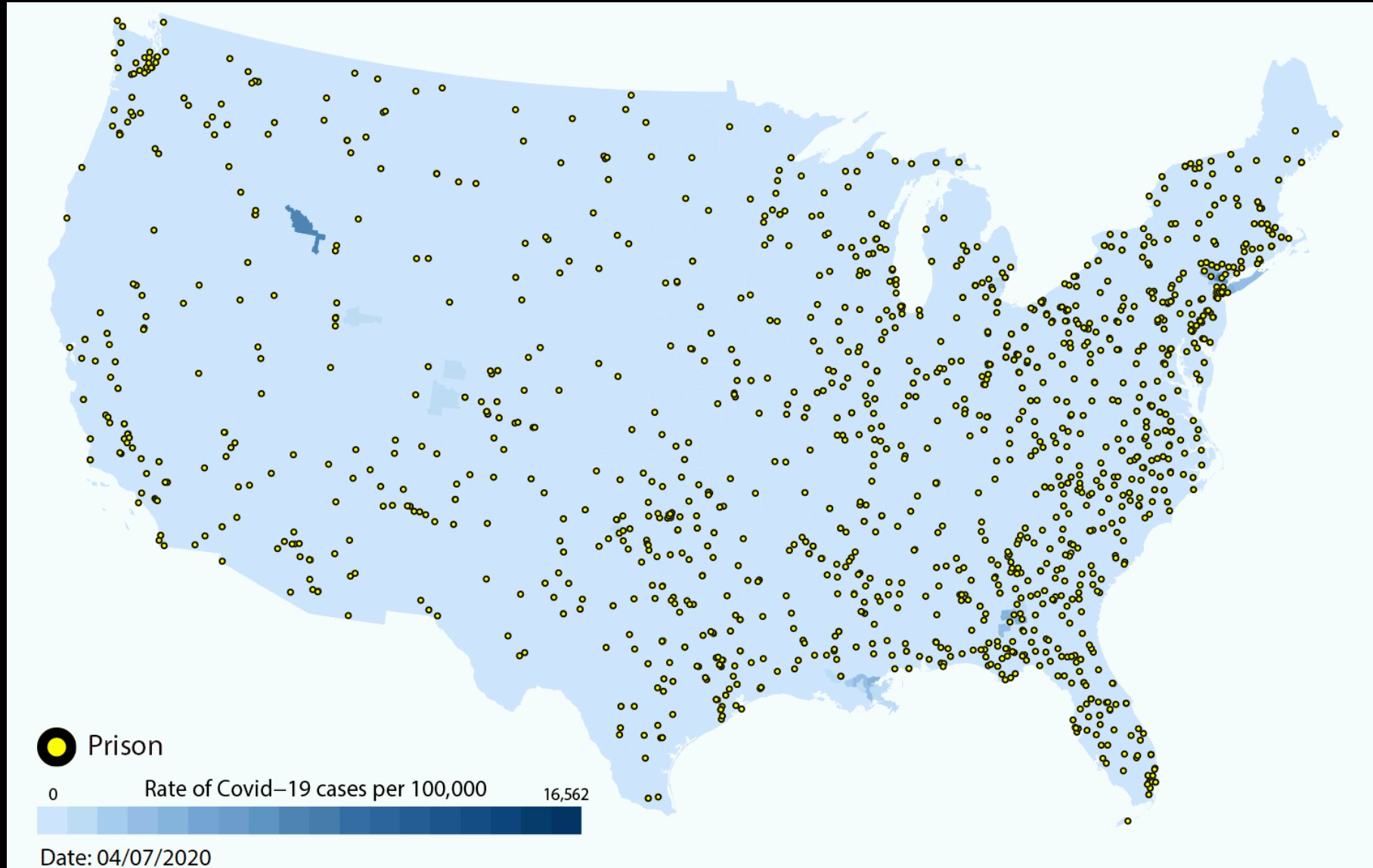
- Research Design
- Data
- Updates to analysis
- Longer Term Lessons



# The Prison Boom & Mass Incarceration



# COVID Rates by US Counties w/Prisons







# Dane County COVID-19 Dashboard v2

Data is currently refreshed daily at 9:30am.



Confirmed Cases

# 13,047

Cumulative Cases

Recovered Cases

People Tested

# 235,642

Total Tests

People Tested

Cases Ever Hospitalized

# 472

Deaths

# 46

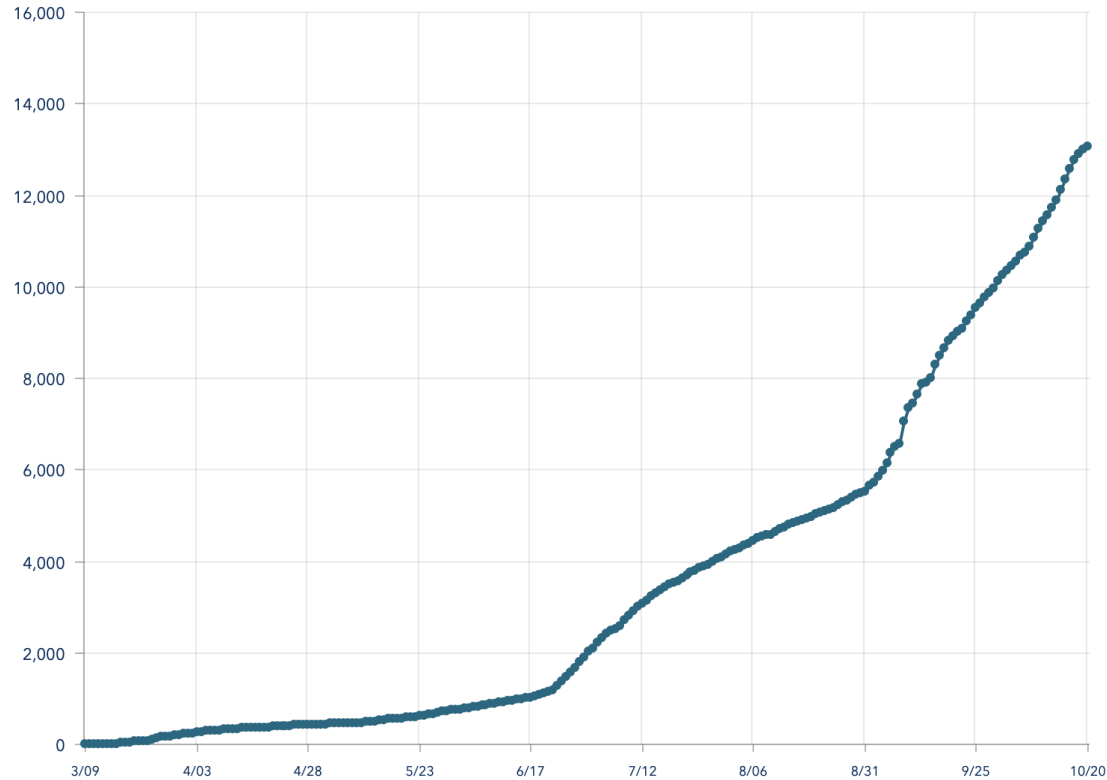
Notes:

- **Data context:** Visit our data page for

Notes

Mobile version link

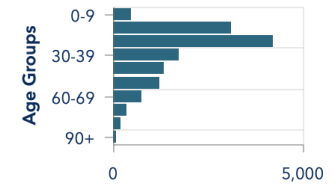
## Cumulative Case Count by Date of Test Result



\*The first case in Dane County occurred on 2/5/2020. Recent dates are subject to change as results continue to come in.

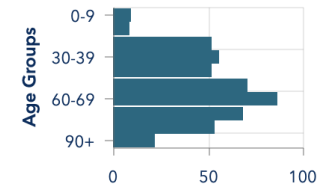
Cumulative Cases by Date

### Confirmed Cases



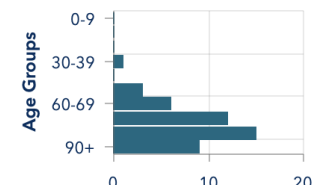
by Age

### Cases Ever Hospitalized



by Age

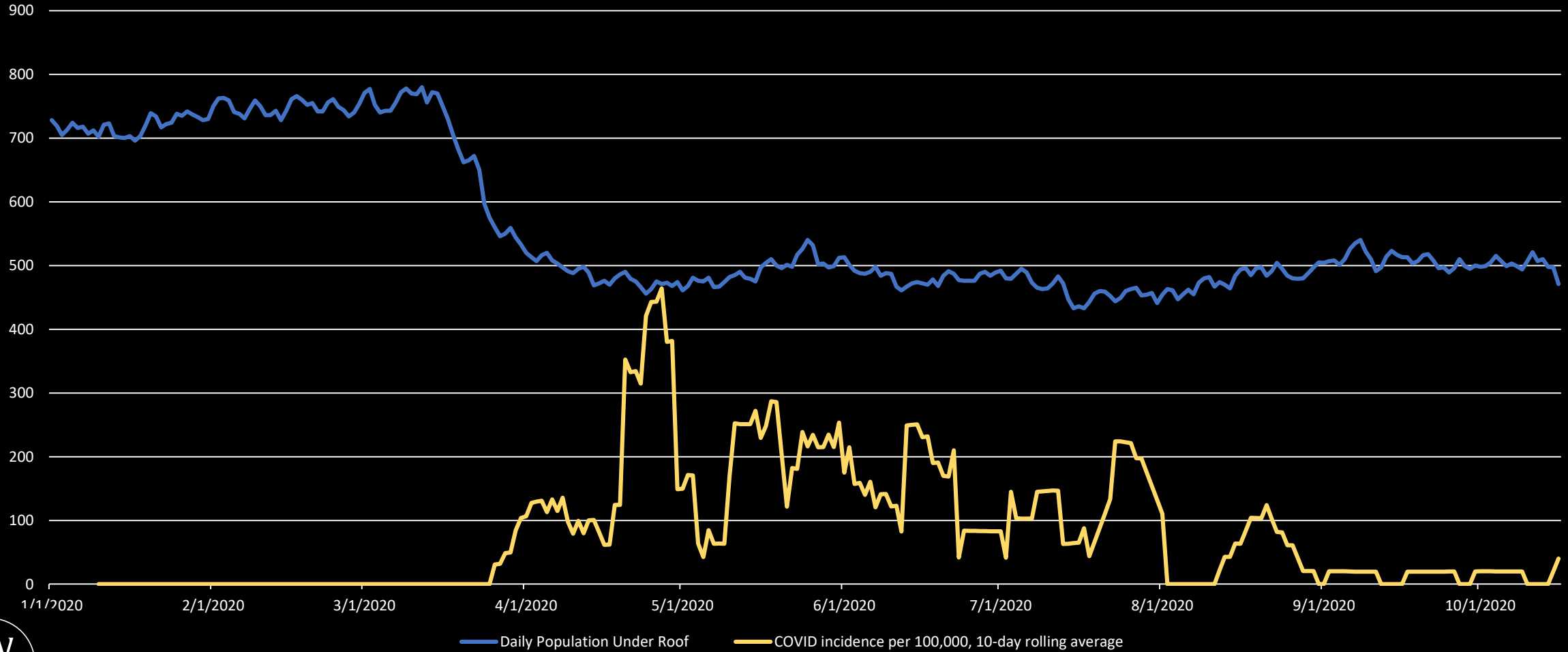
### Deaths



by Age



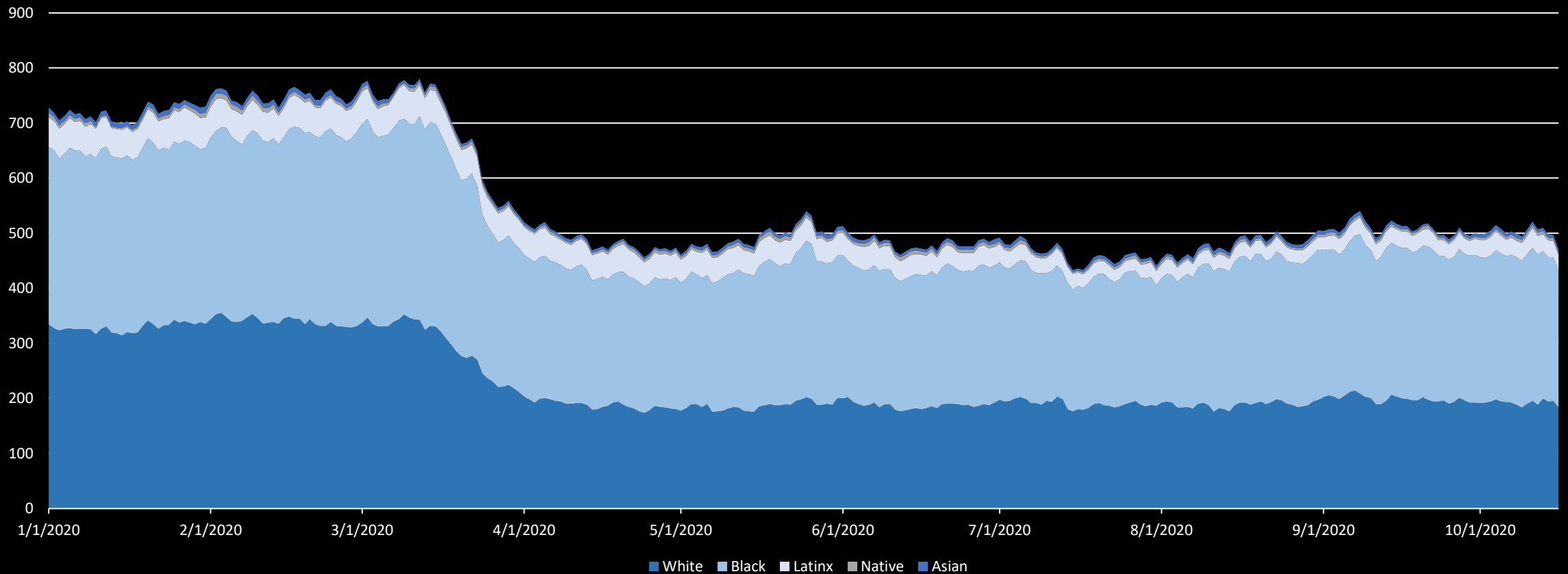
# Dane County Jail Under-Roof Population & COVID Incidence



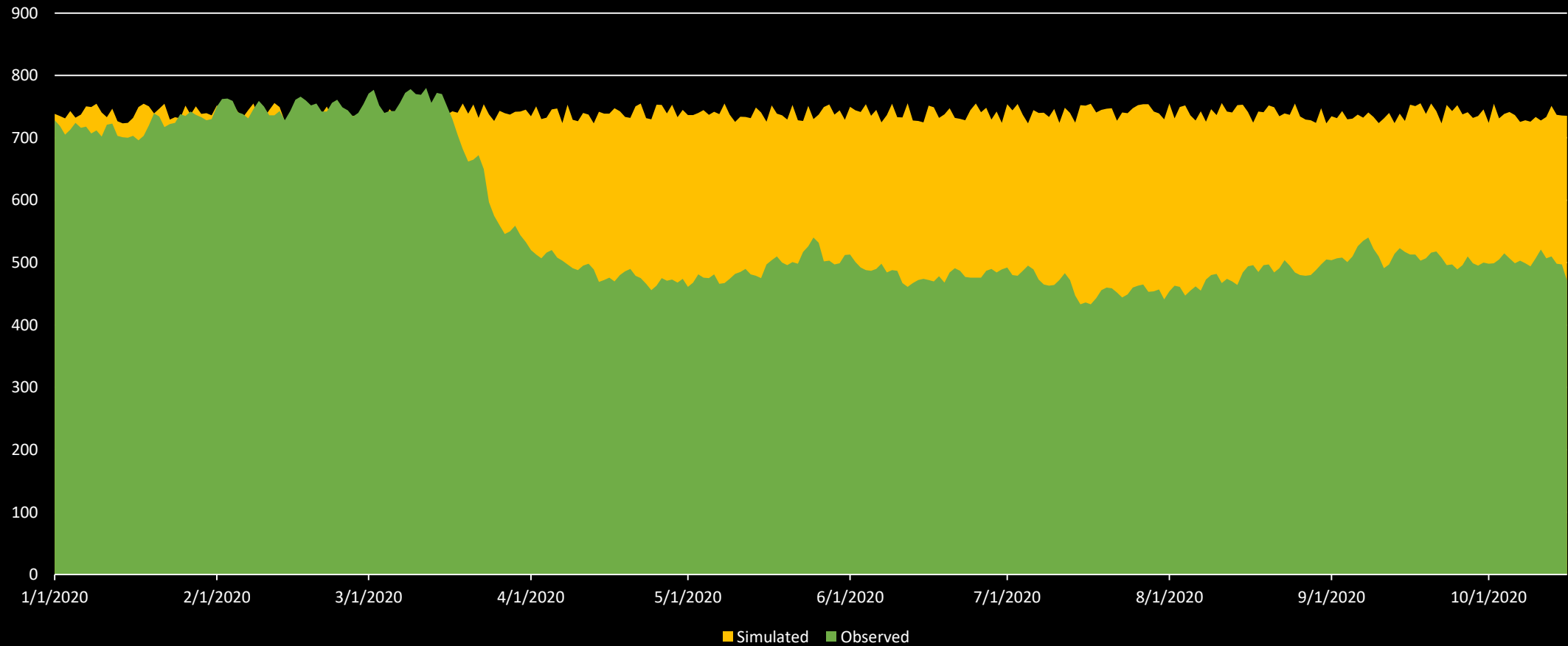
— Daily Population Under Roof — COVID incidence per 100,000, 10-day rolling average



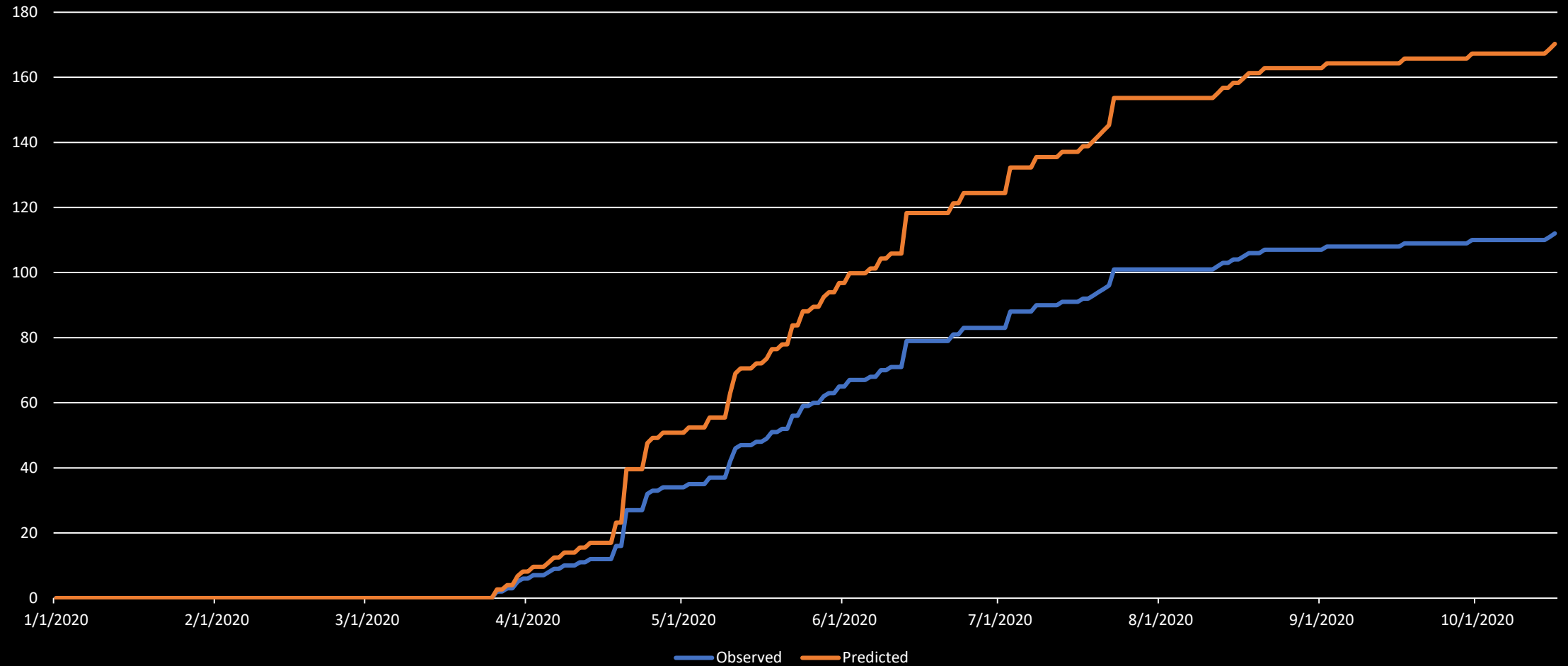
# Under-Roof Population by Race/Ethnicity



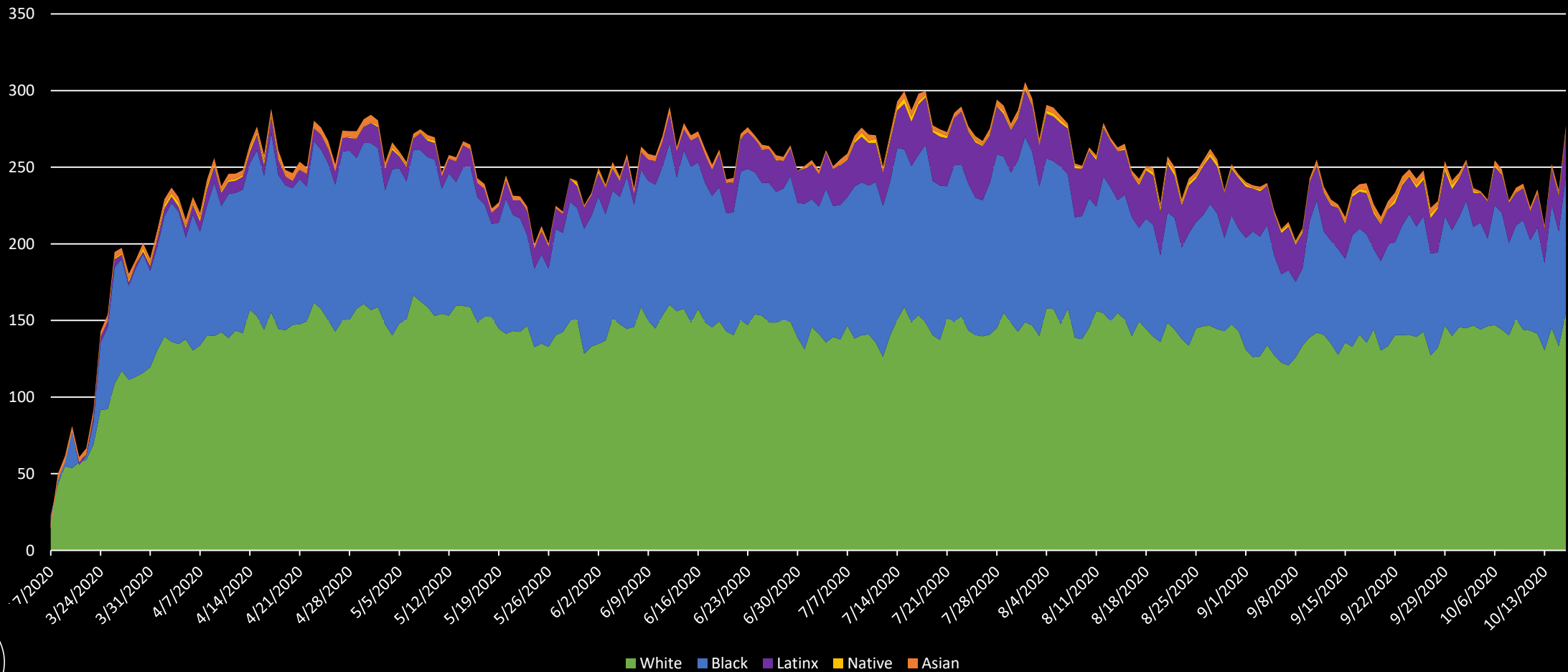
# The Effect of Decarceration on COVID



# Cumulative incidence of COVID cases in Dane County Jail

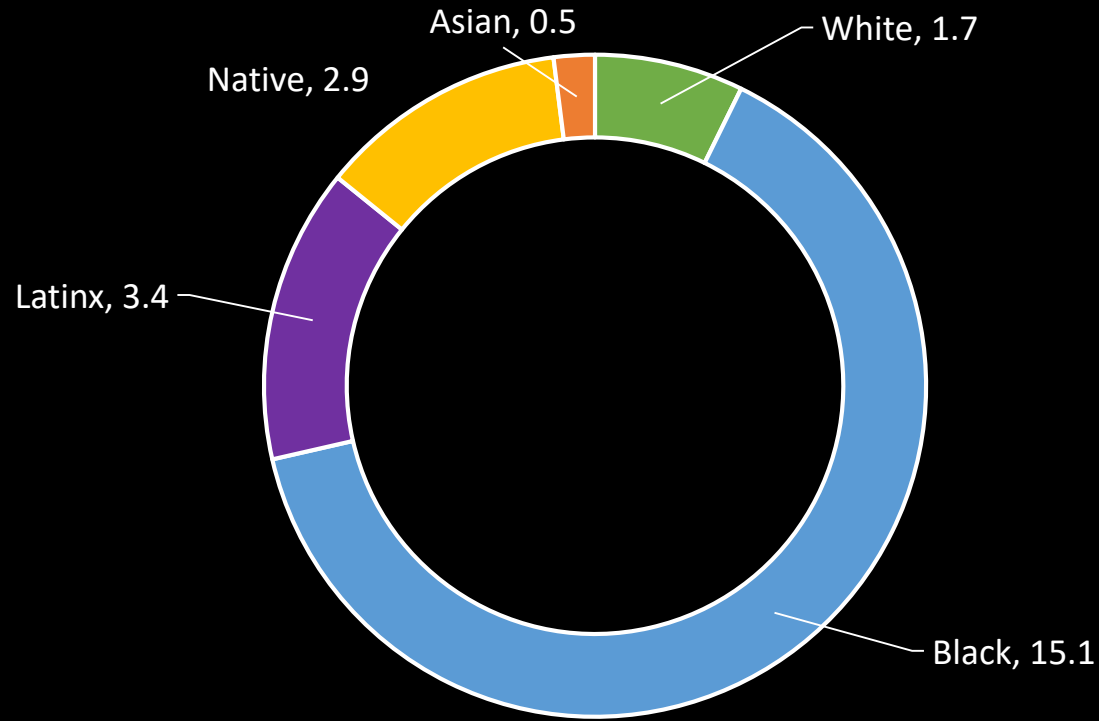


# People not exposed to COVID in Dane County Jail from Decarceration



White Black Latinx Native Asian

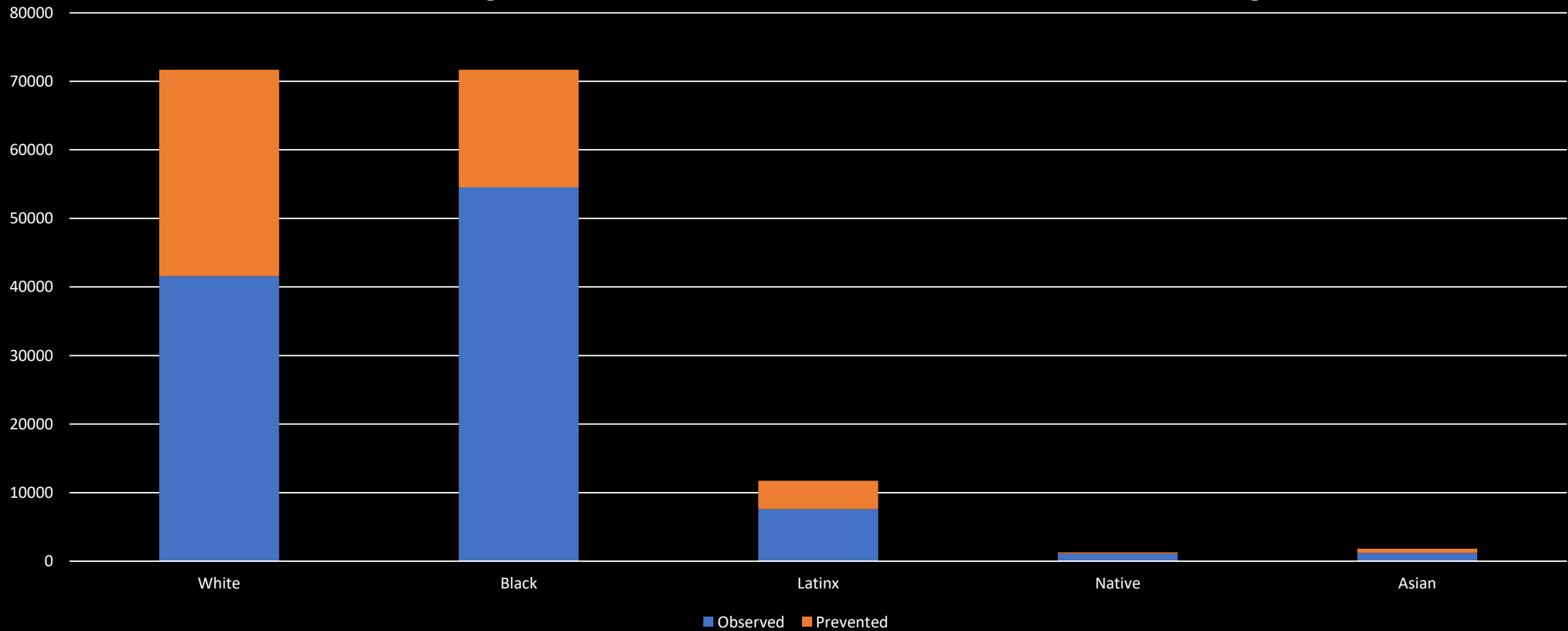
# Hours of COVID exposure prevented per Dane County Resident, by race



White Black Latinx Native Asian



# Person-days Exposure by Race & Person-days of Prevented Exposure



# Decarceration...

- Is a strategy central to Public Health—-not just during the current pandemic.
- Produces racial equity.



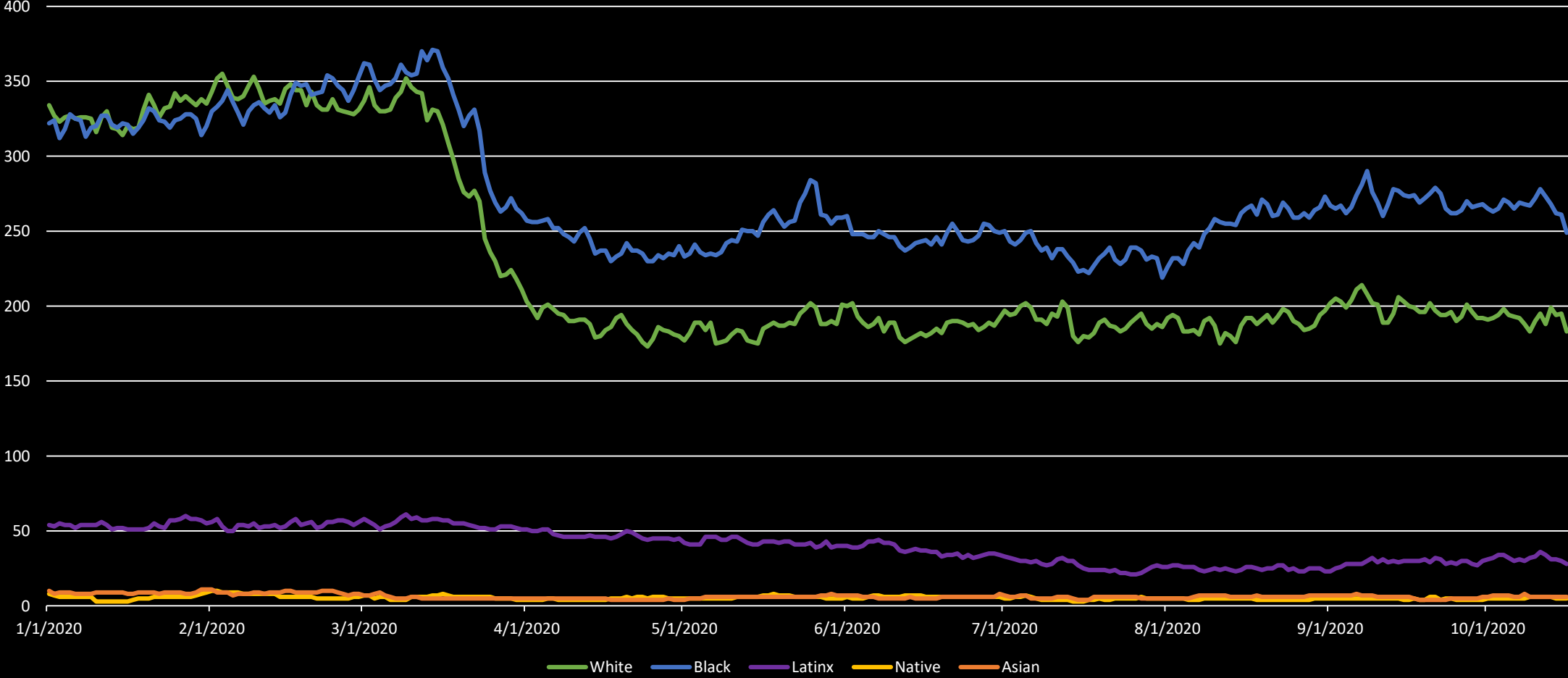


# Continuing to Flatten the COVID Curve

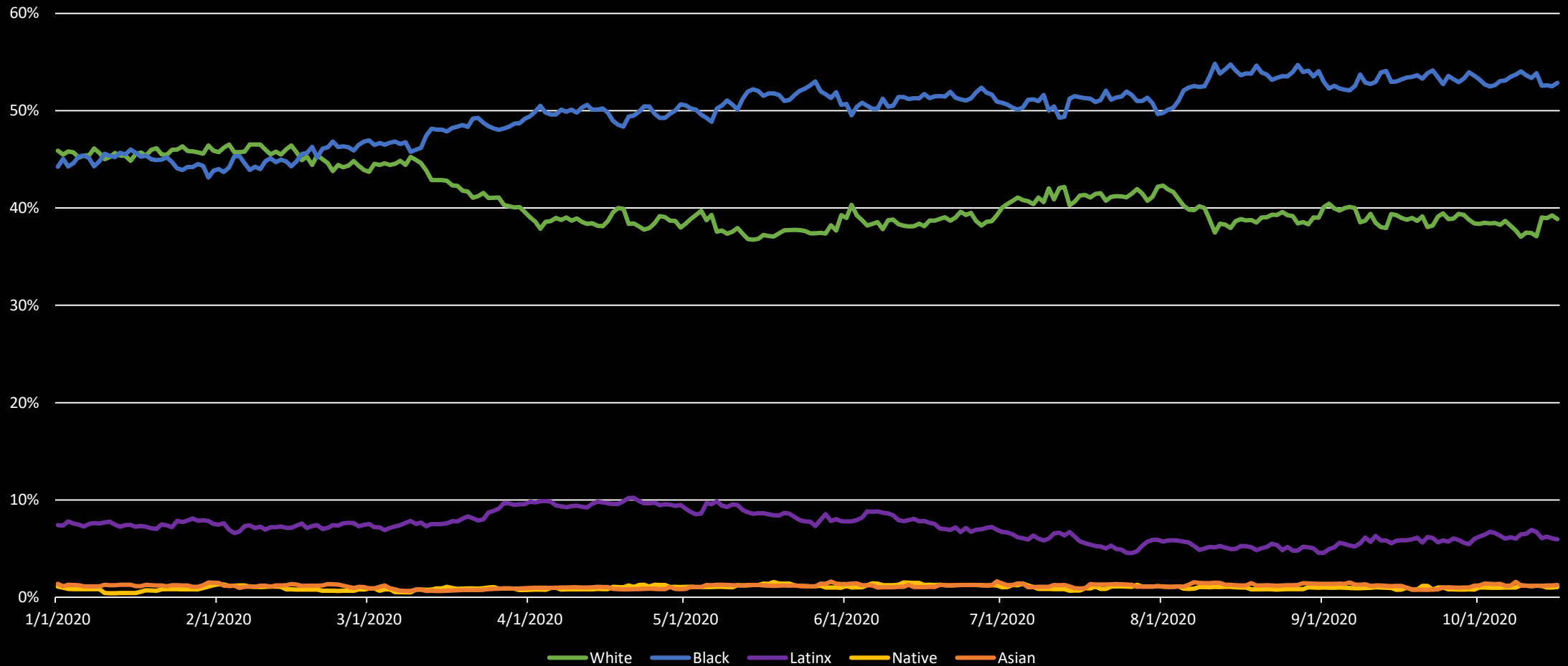
- Backcasting
- Forecasting
- Agent Based modeling



# Under Roof by Race



# Under Roof by Race



# Table 1. Person-time exposure to COVID in Dane County Jail prevented

Black	White	Latinx	Native	Asian
47 years	82 years	11 years	½ year	2 years
2144 work days	3764 work days	517 work days	23 work days	76 work days
429 work weeks	753 work weeks	103 work weeks	5 work weeks	15 work weeks

Interpretation example: Decarceration is estimated to have prevented 47 person-years of possible exposure to COVID among the black inmates at Dane County Jail.

This is the equivalent of someone avoiding exposure by staying home from work for 2144 8-hour work days or 429 40-hour work weeks.

