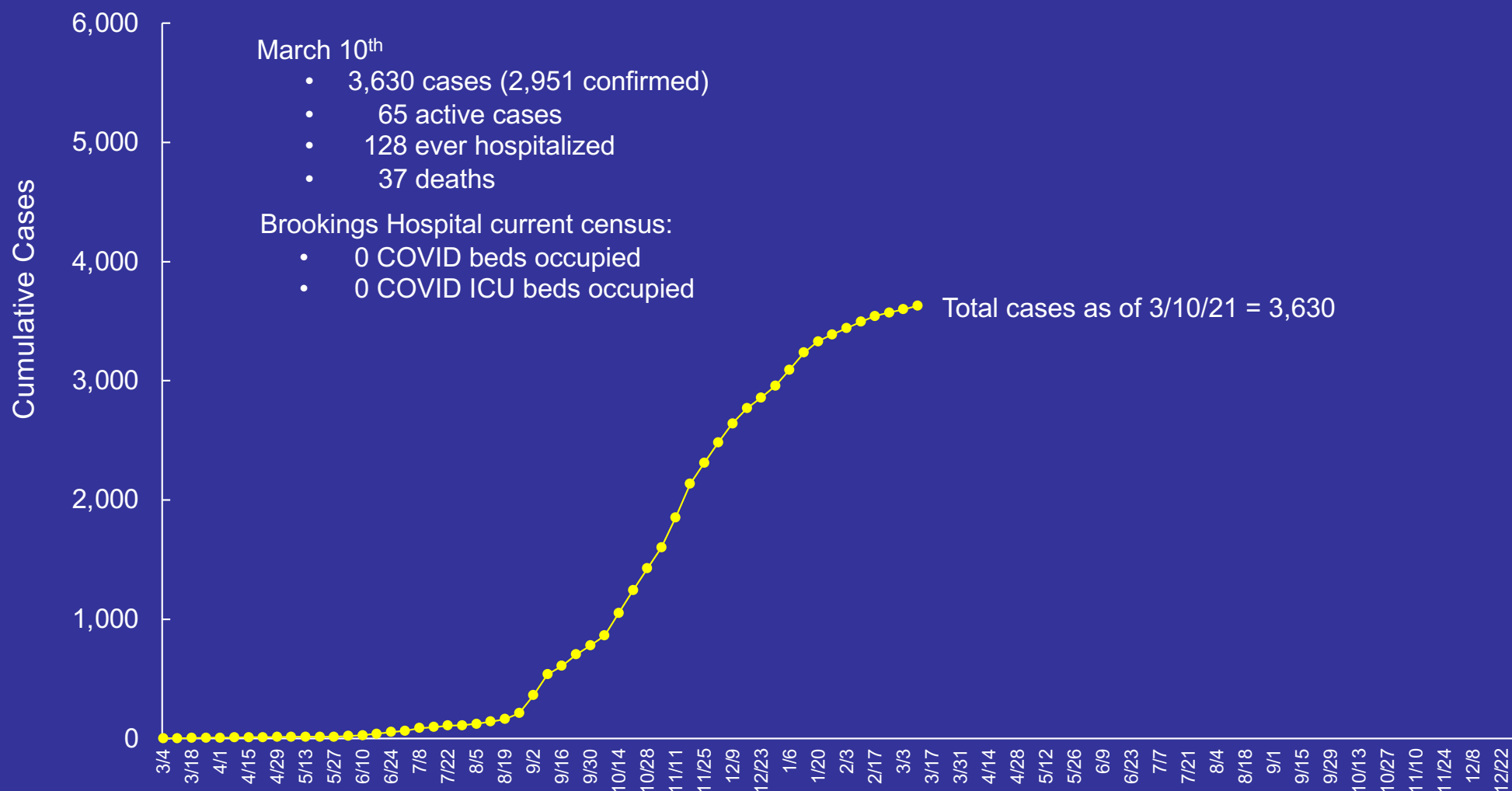


COVID-19 Situation

Brookings County

Brookings COVID-19 Situation

2020-2021 Cumulative Number of Confirmed & Probable Cases by Week

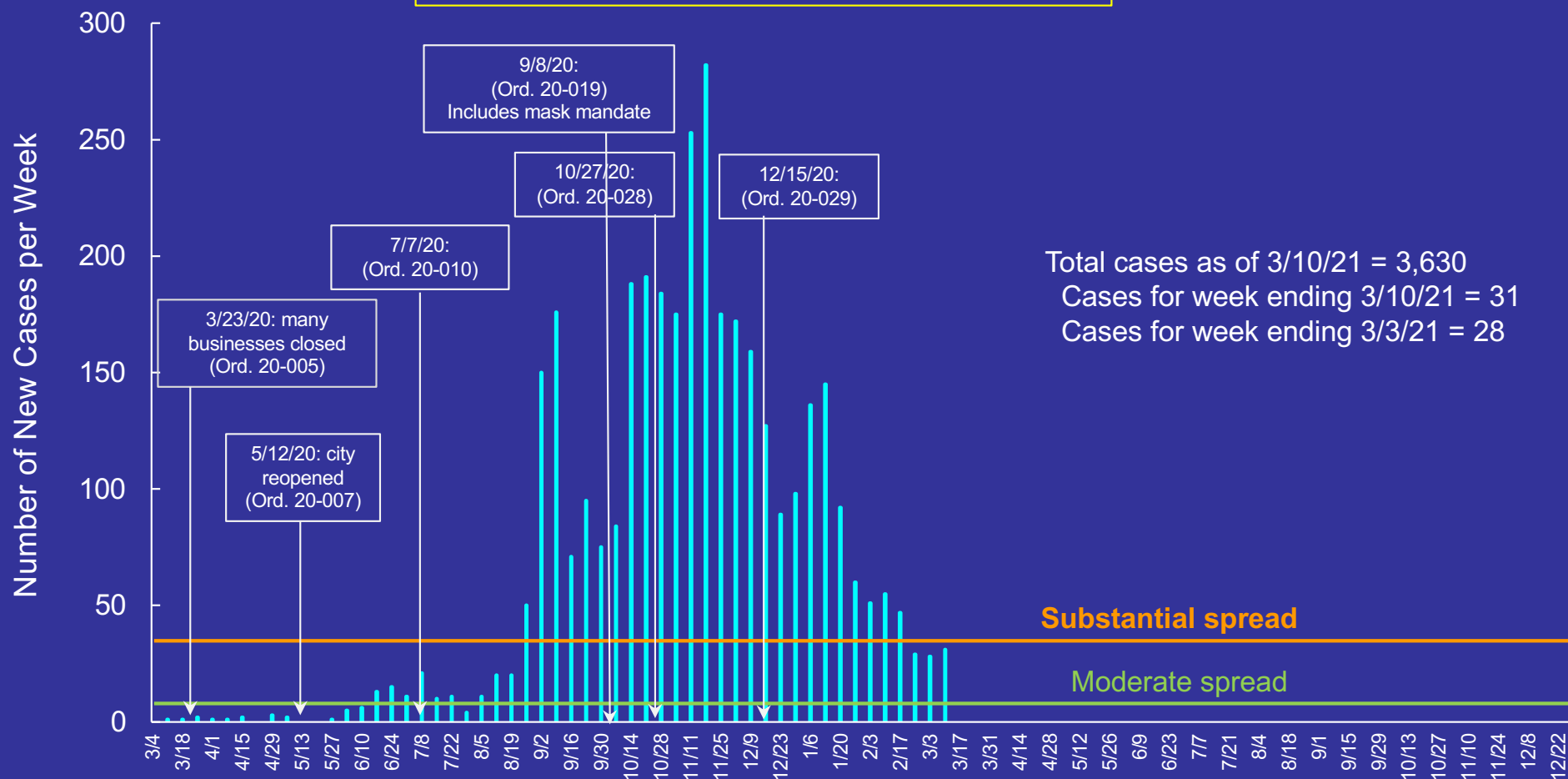


State residents only. Includes confirmed cases by PCR & probable cases by antigen testing.

Brookings COVID-19 Situation

2020-2021 Number of Confirmed & Probable COVID-19 Cases per Week

Current Level of Community Spread[^]: **substantial**



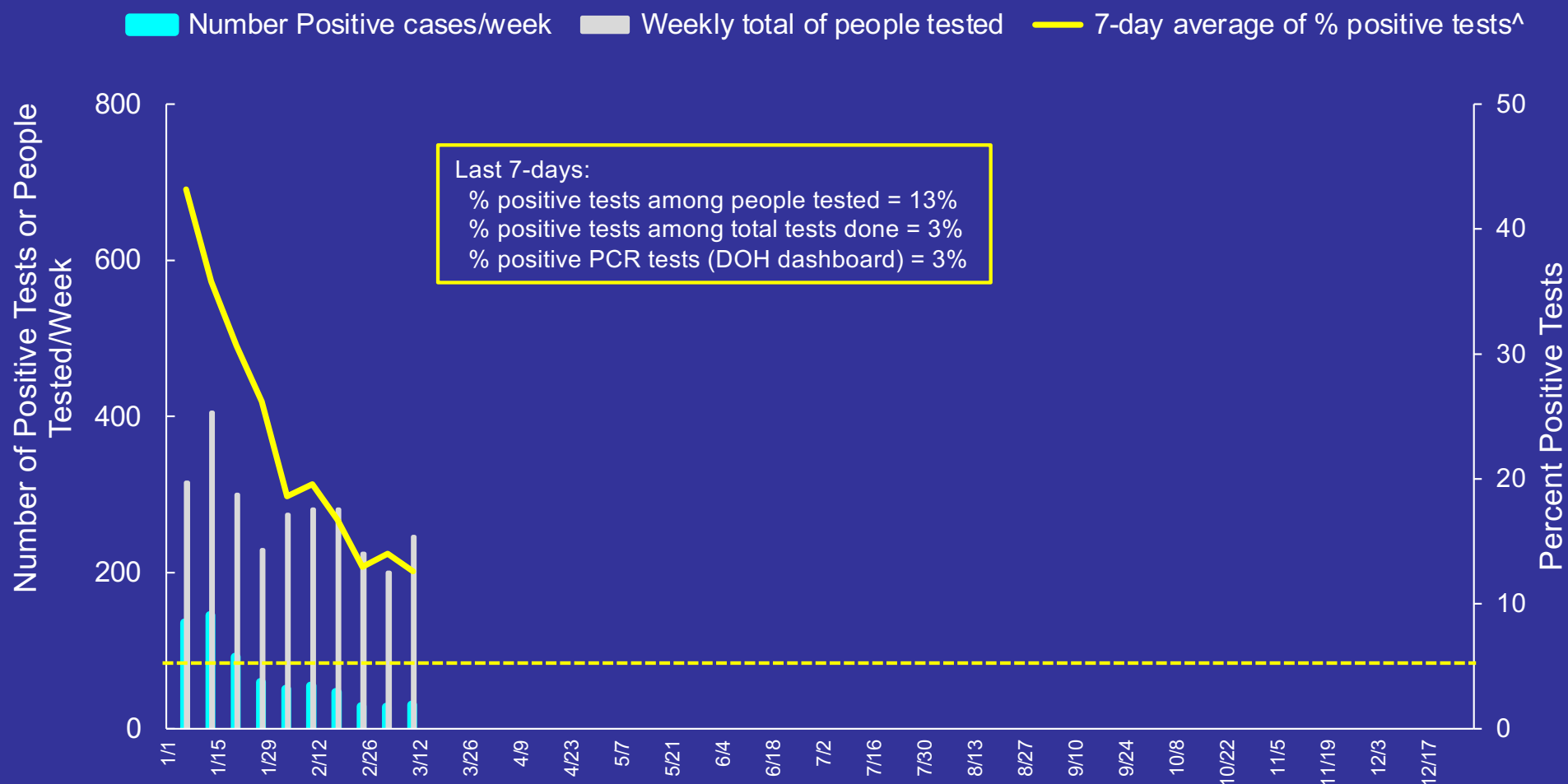
Substantial spread = 100+ new cases per week/100,000 population or 34 cases/week for Brookings County.

Moderate spread = 10-100 cases per 100,000 (4-33 cases/week); Minimal spread = <10 cases/100,000 (<4 cases/week)

For description of ordinances visit: <https://cityofbrookings.org/699/Guidelines-Ordinance-Information>

Brookings COVID-19 Situation

2021 Weekly Percentage of Positive Tests (PCR + Antigen)

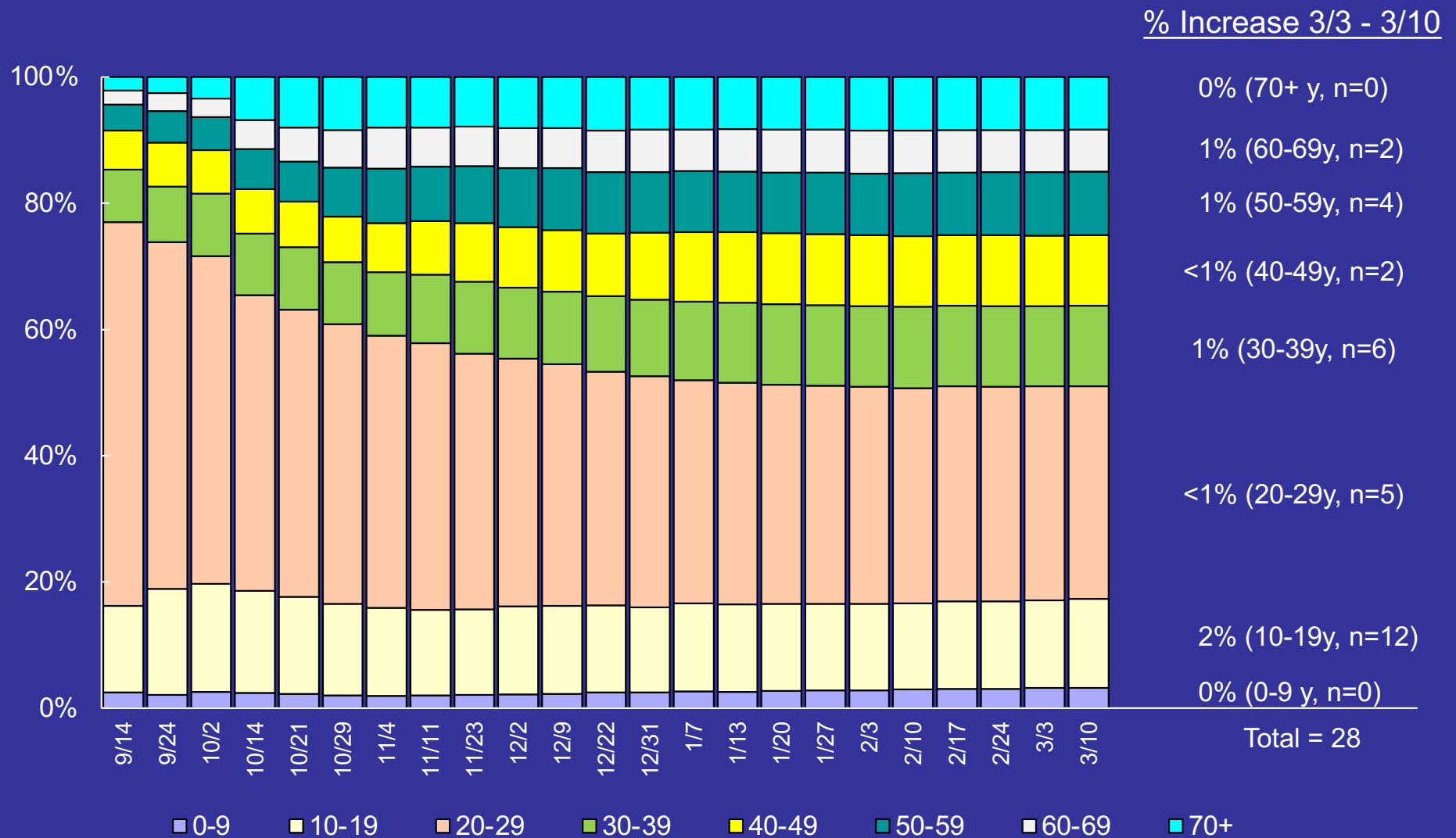


[^] Calculated as sum of 7-days of previous positive cases/sum of 7-days of total tests completed*100. Duplicate tests on same individual not included. Used total cases and total persons tested on DOH website (includes sentinel & surveillance samples).

The rate of positivity provides insight into whether enough testing is being conducted. If positivity is high, it suggests that the sickest are being tested and milder or asymptomatic cases may be missed. The WHO has said that in countries that have extensive testing for COVID-19, percent positive should remain at 5% or lower for at least 14 days (dashed yellow line).

Brookings COVID-19 Situation

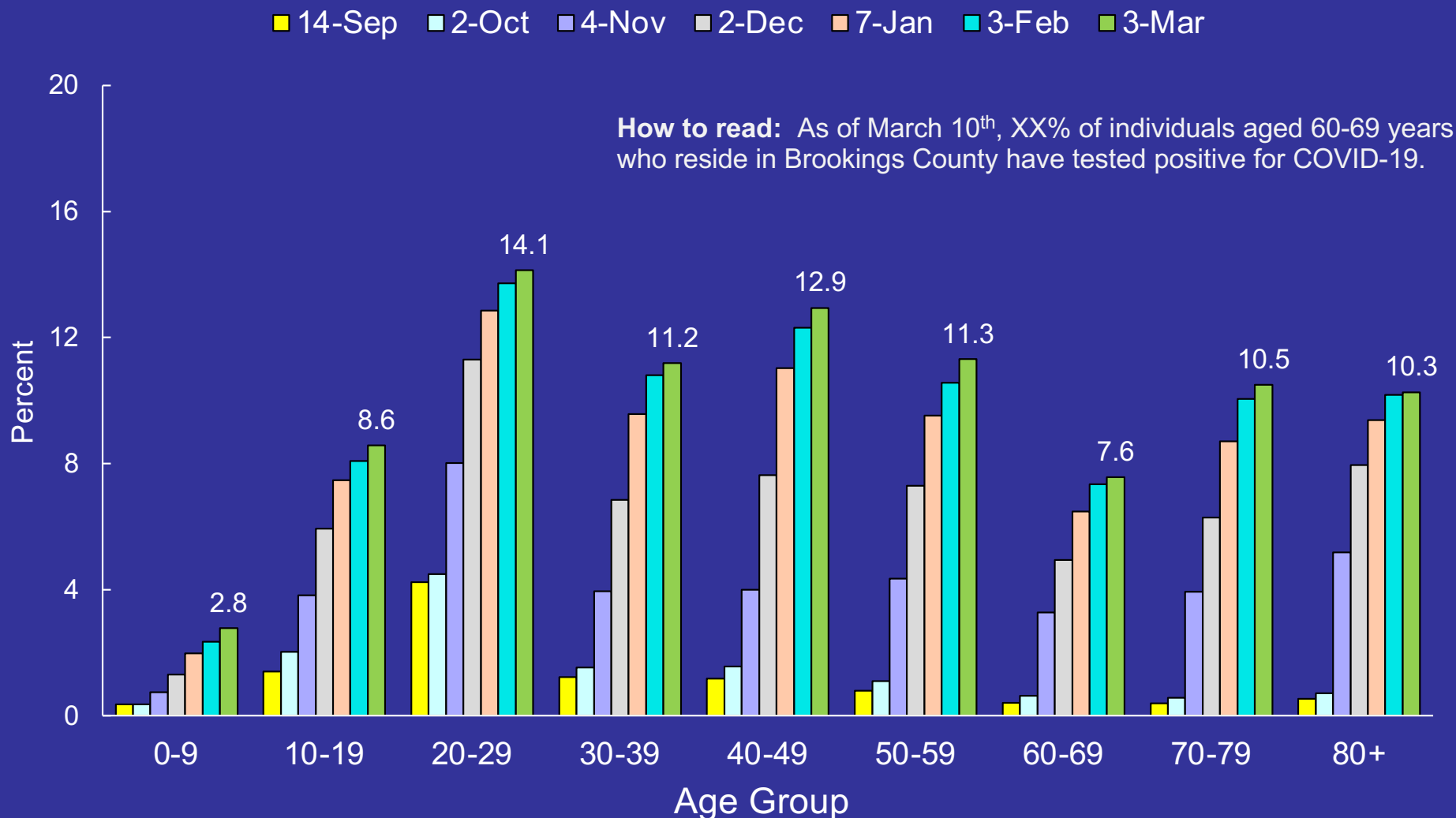
Age Distribution of Brookings County Cases
Who Have Tested Positive Over Time



Data Source: South Dakota Department of Health

Brookings COVID-19 Situation

Cumulative Percent of Population within Each Age Group Testing Positive in Brookings County by Month



Overall, 10.3% of Brookings County residents have tested positive as of March 3rd.

Case data as close to the first of the month as possible was used. Population estimates from 2019 Census estimates.

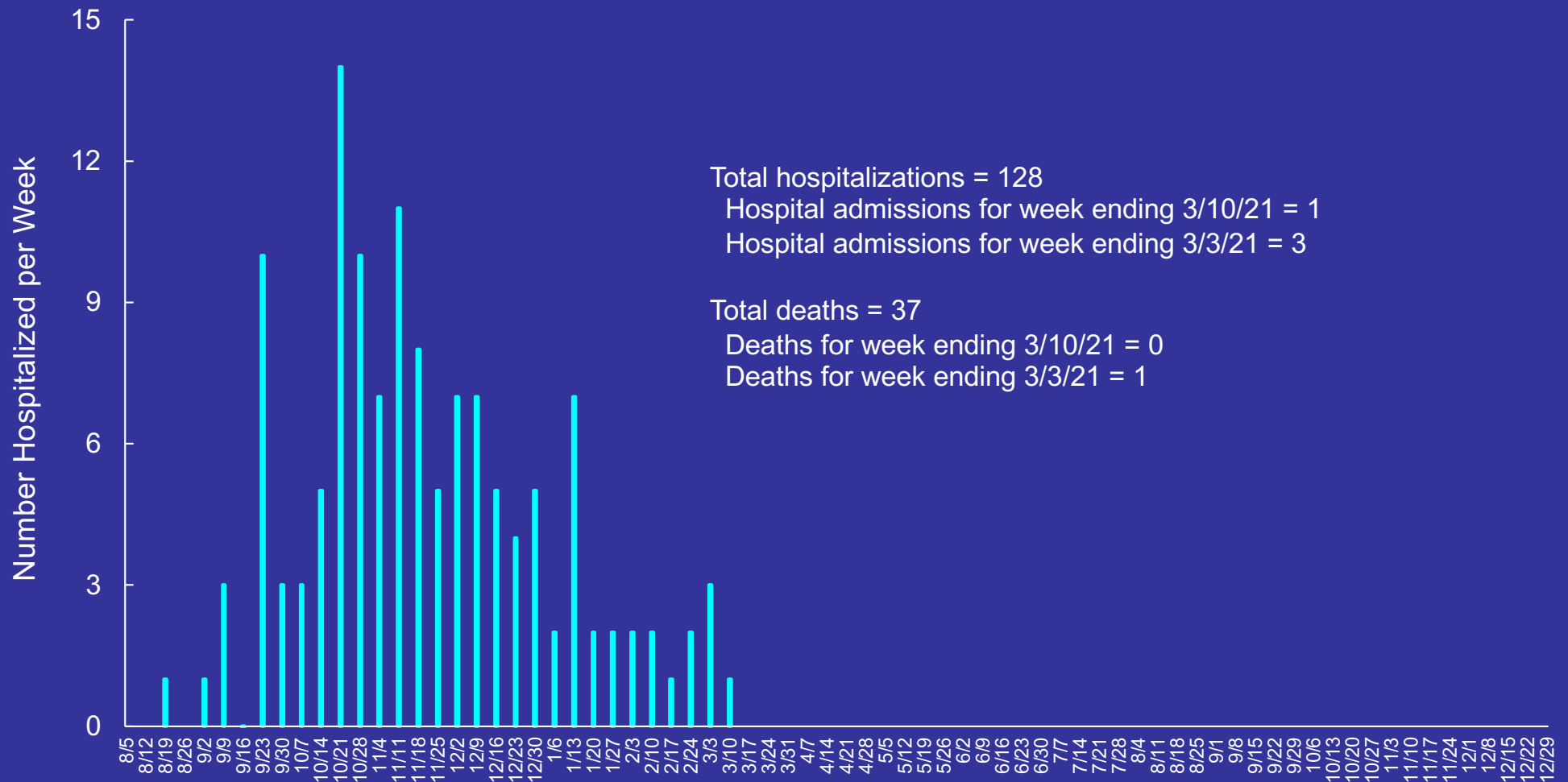
Updated monthly.

Data Source: South Dakota Department of Health

Brookings COVID-19 Situation

2020-2021 Number of New Hospitalizations per Week

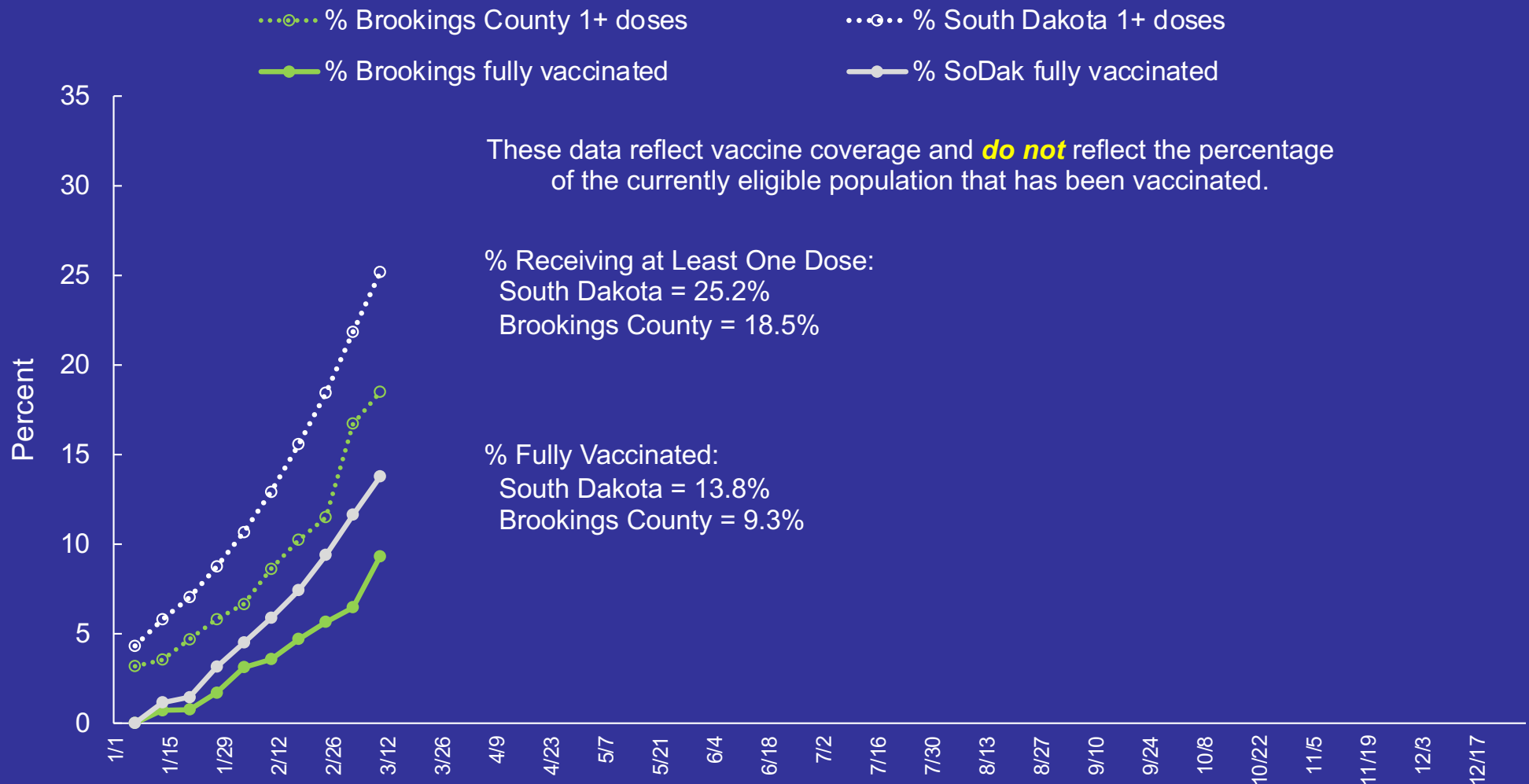
Data after 3/3/21 are incomplete



Includes only Brookings County residents. Began collecting data on 8/5/2020 (4 hospitalizations prior to 8/5 are not shown).

Brookings COVID-19 Situation

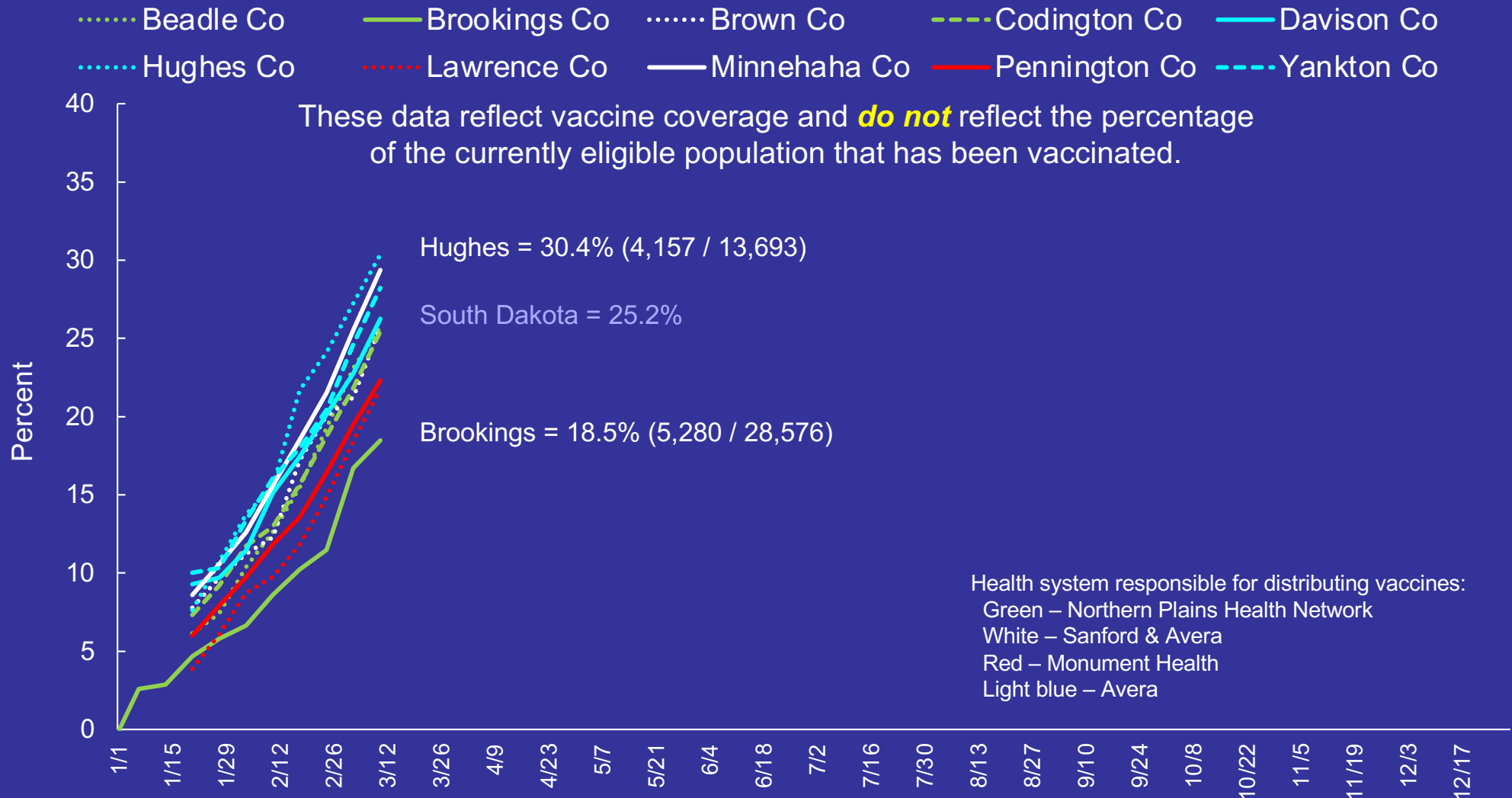
2021 Percent of Brookings County & South Dakota Vaccinated per Week^



^ Based on 2019 Census population estimate for residents aged 16+ years in Brookings County of 29,587 & for SD of 689,981. Does not include vaccinations via IHS and VA.

Counties with Top 10 Most Populous Cities

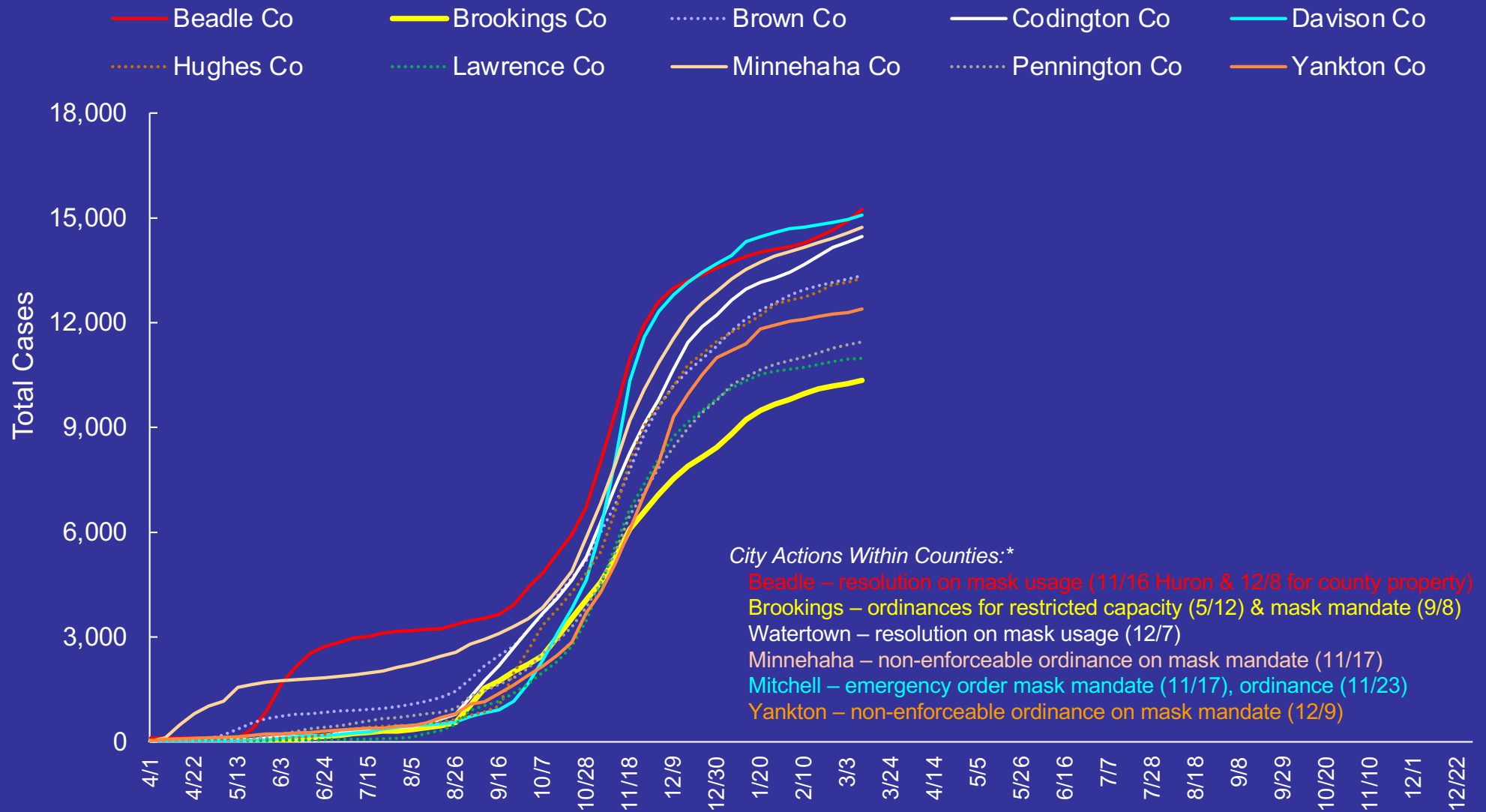
2021 Percent of Population Receiving at Least One Vaccine[^]



[^] Based on 2019 Census population estimates for residents aged 16+ years.
Does not include vaccinations via IHS and VA.

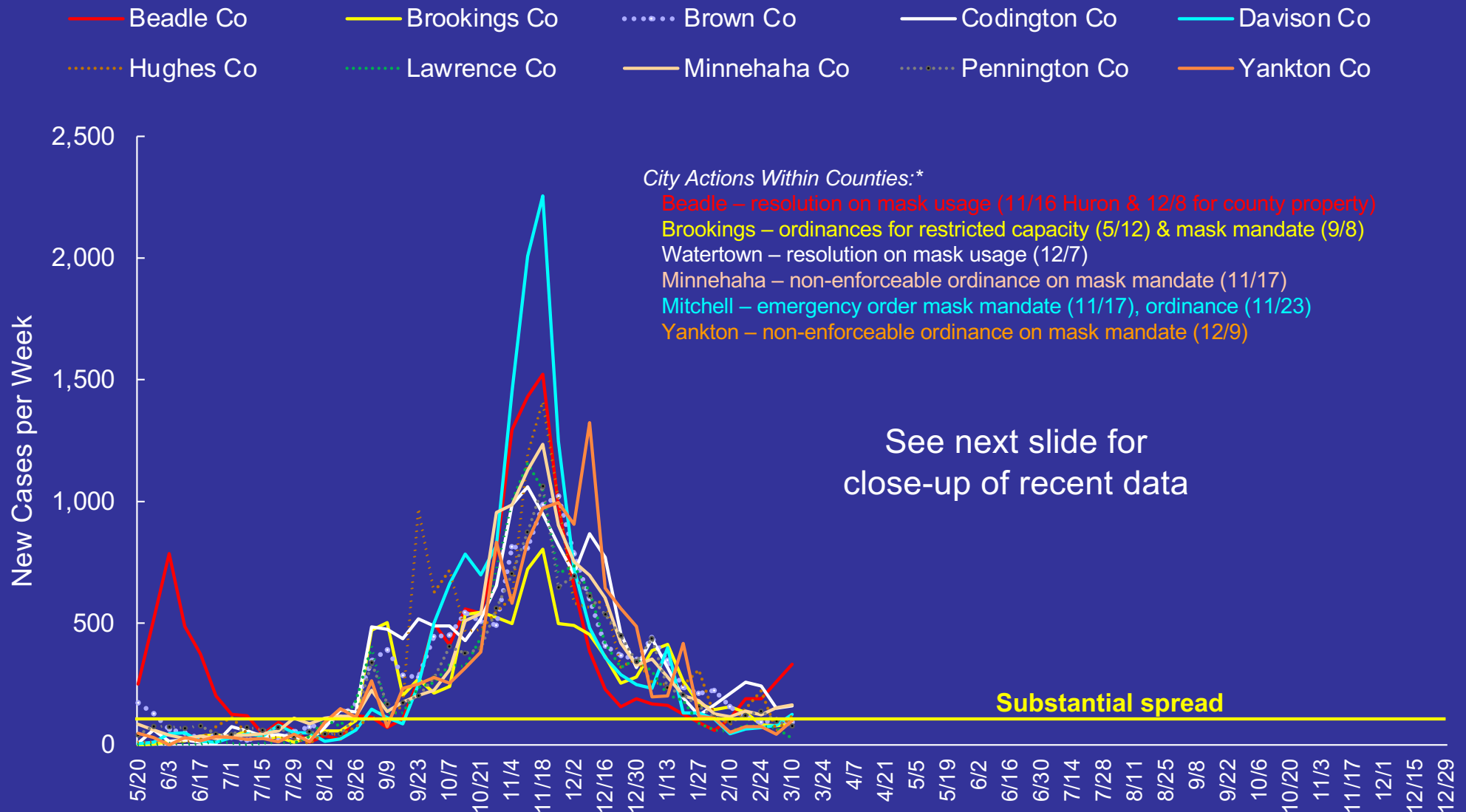
Counties with Top 10 Most Populous Cities

Cumulative Cases per 100,000 Population by Week



Counties with Top 10 Most Populous Cities

New Cases per Week per 100,000 Population

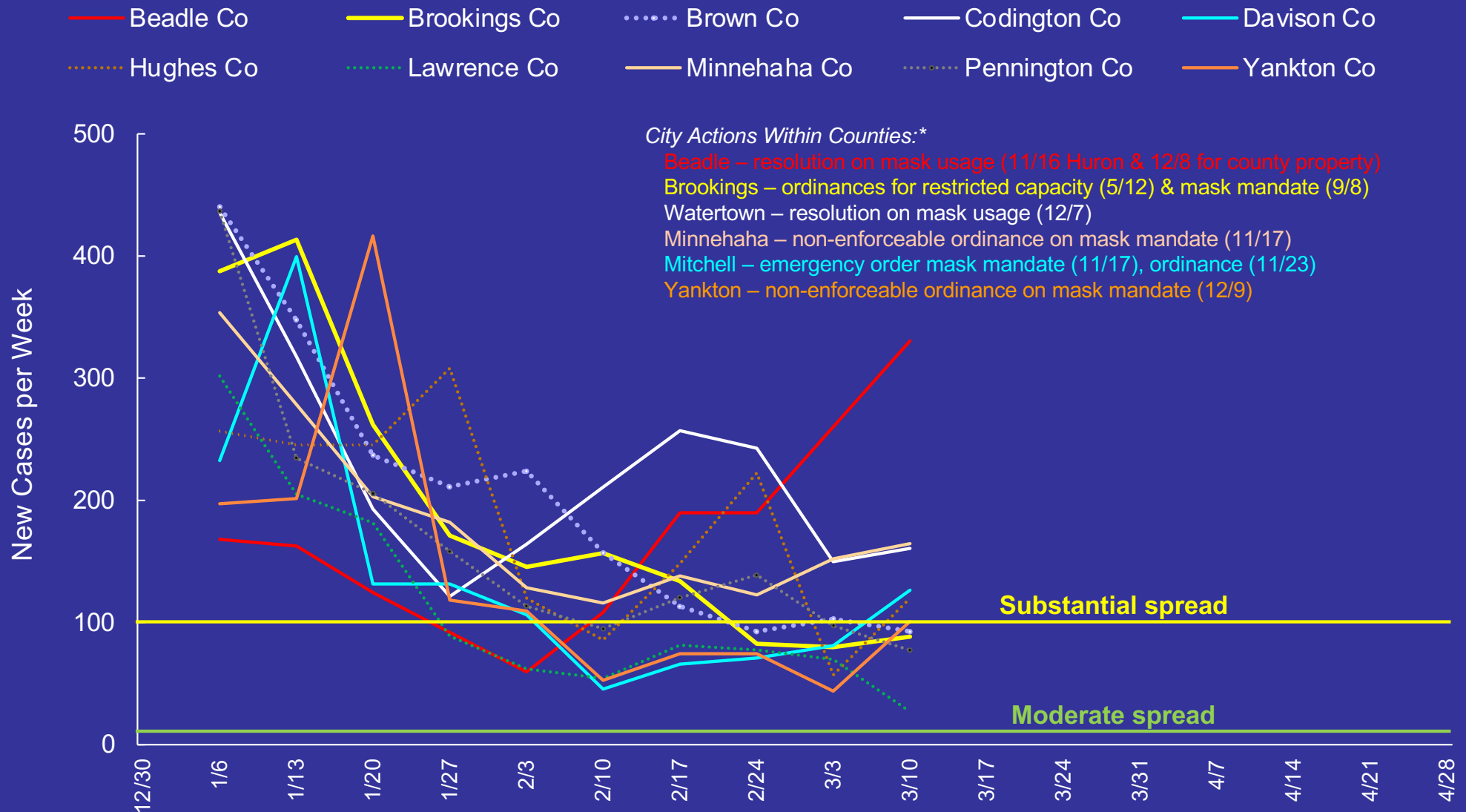


Spread based on new cases/week: substantial = 100+/100K population. 2019 Census county population estimates used.

Data from <https://doh.sd.gov/COVID/Dashboard.aspx>

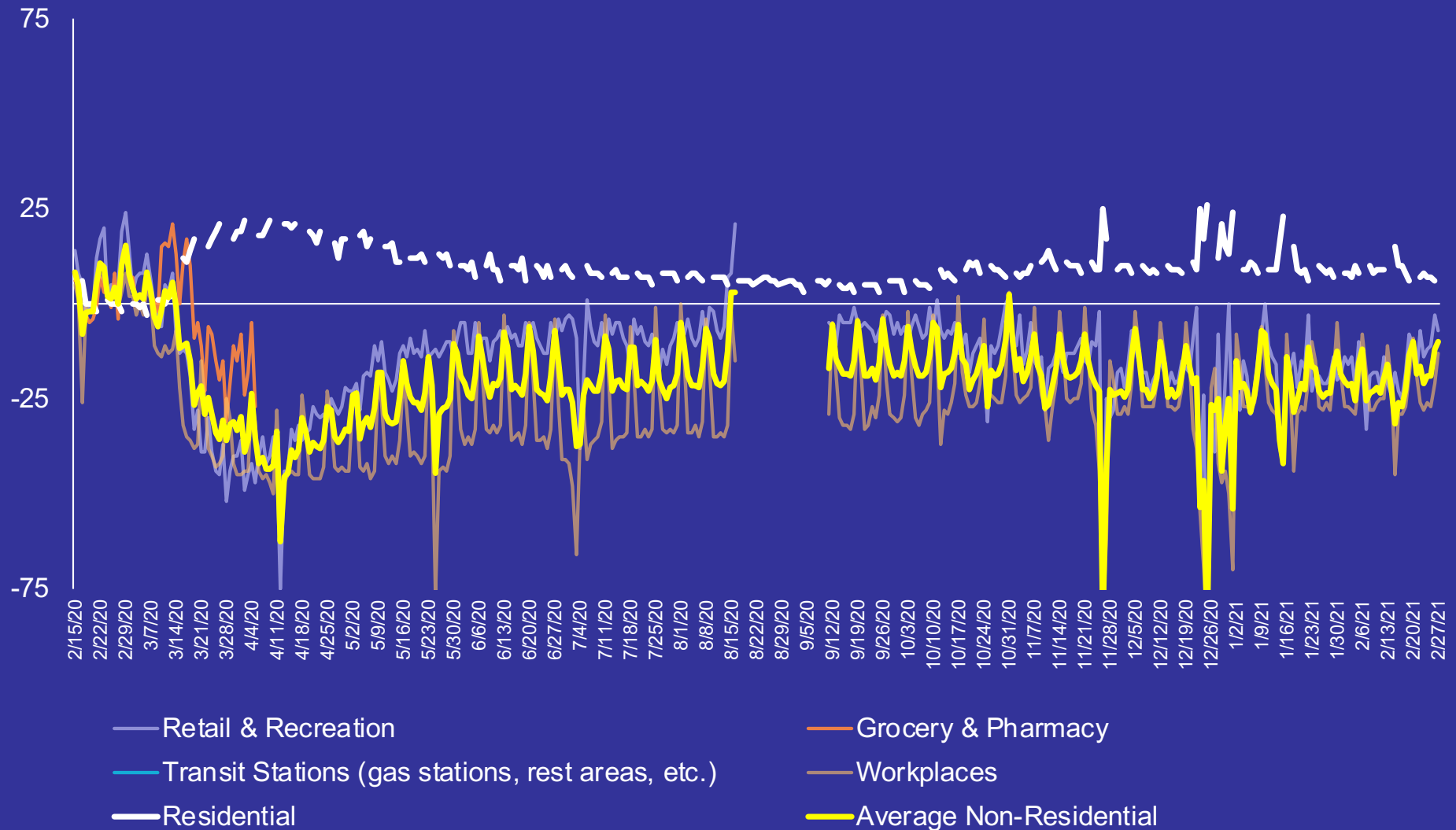
Counties with Top 10 Most Populous Cities

New Cases (Recent) per Week per 100,000 Population



Brookings County Mobility Data via Google

Percent Change in Mobility



Baseline: normal value for day of week (1/3-2/6/20)

Residential shows a change in duration, other categories are change in total visitors. *Parks* not shown.

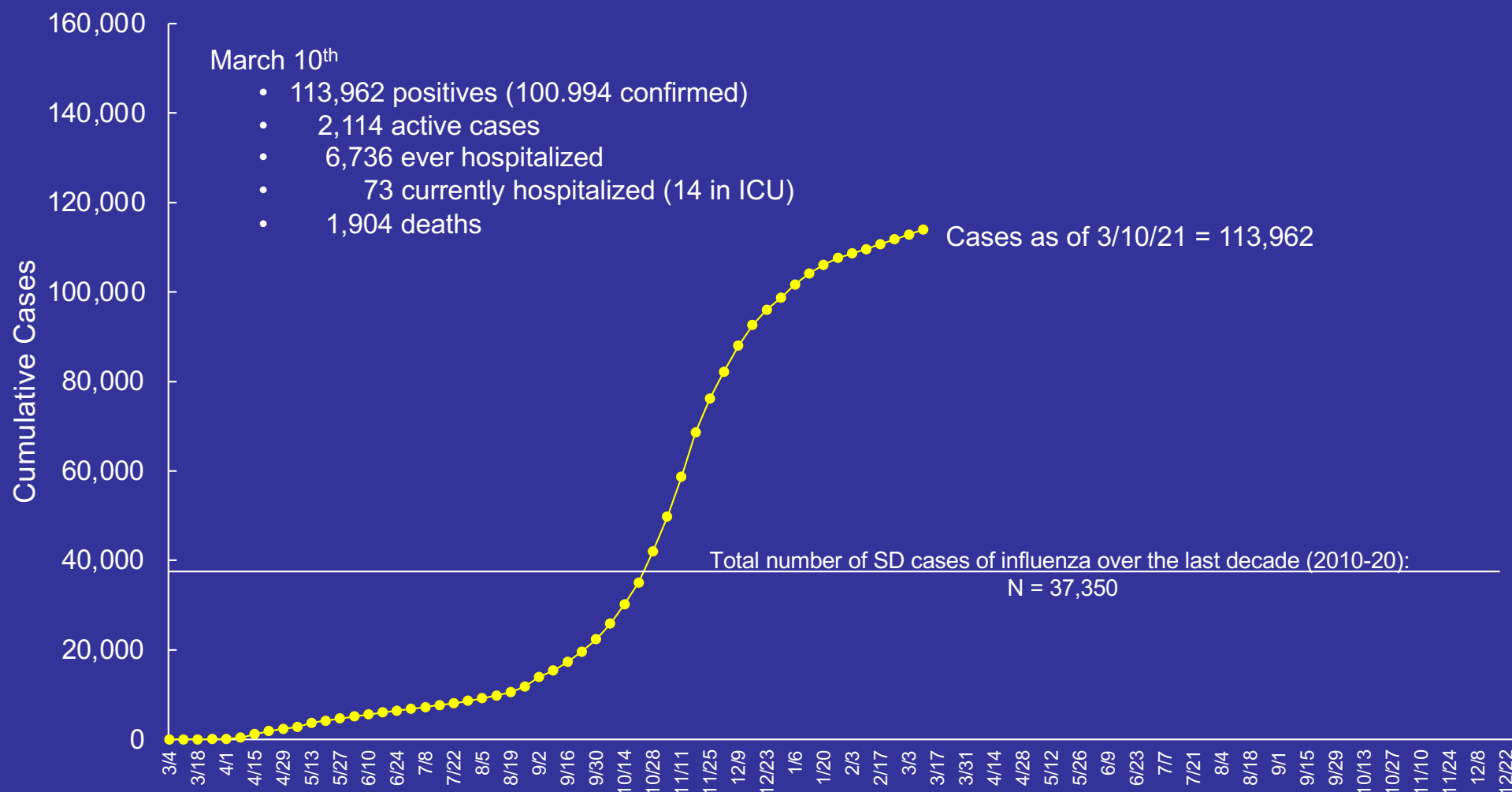
Data from Google COVID-19 Community Mobility Reports: <https://www.google.com/covid19/mobility/>

COVID-19 Situation

South Dakota

South Dakota COVID-19 Situation

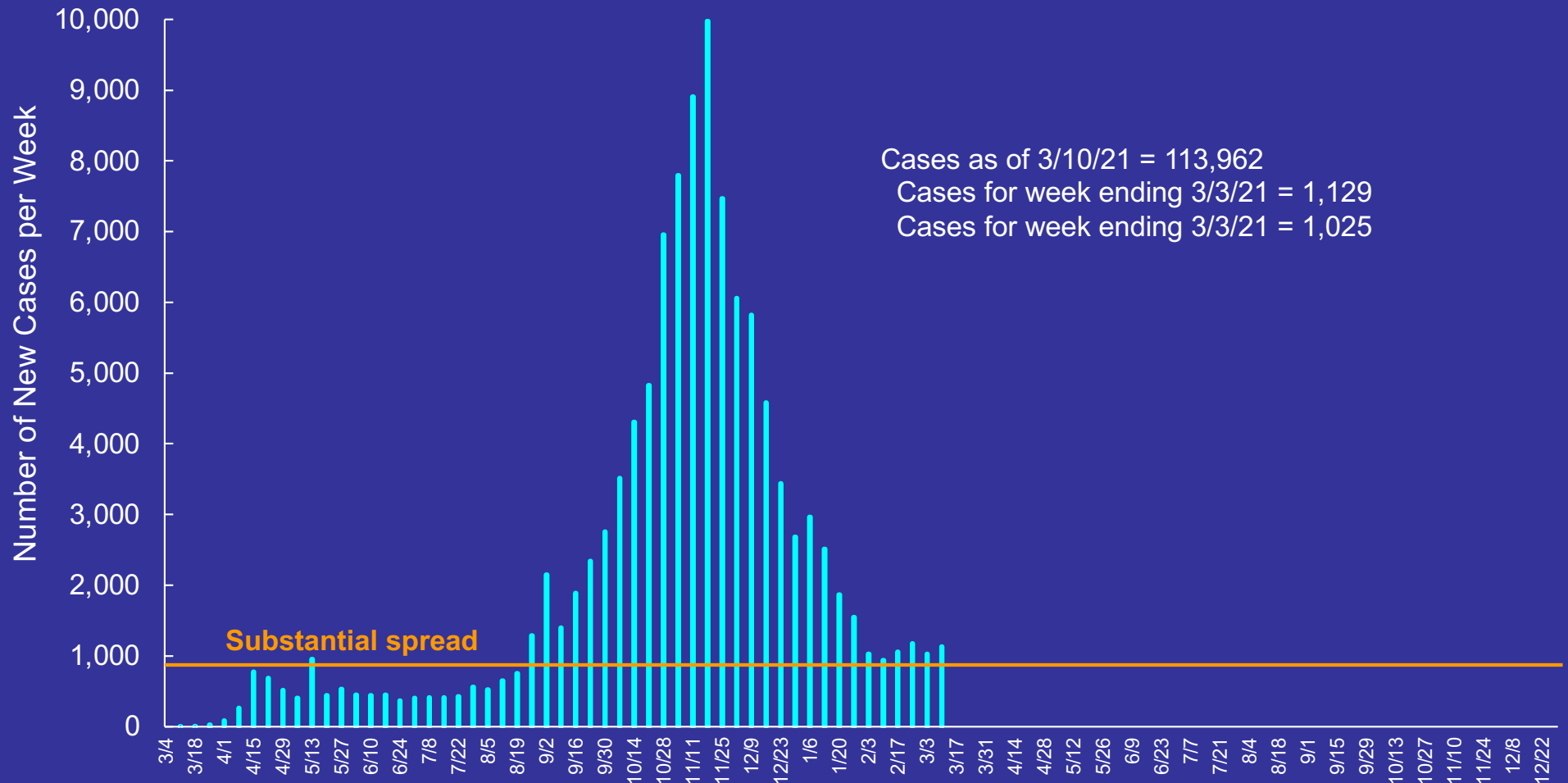
2020-21 Cumulative Number of Confirmed & Probable Cases by Week



State residents only. Includes confirmed cases by PCR & probable cases by antigen testing.

South Dakota COVID-19 Situation

2020-2021 Confirmed & Probable Cases per Week

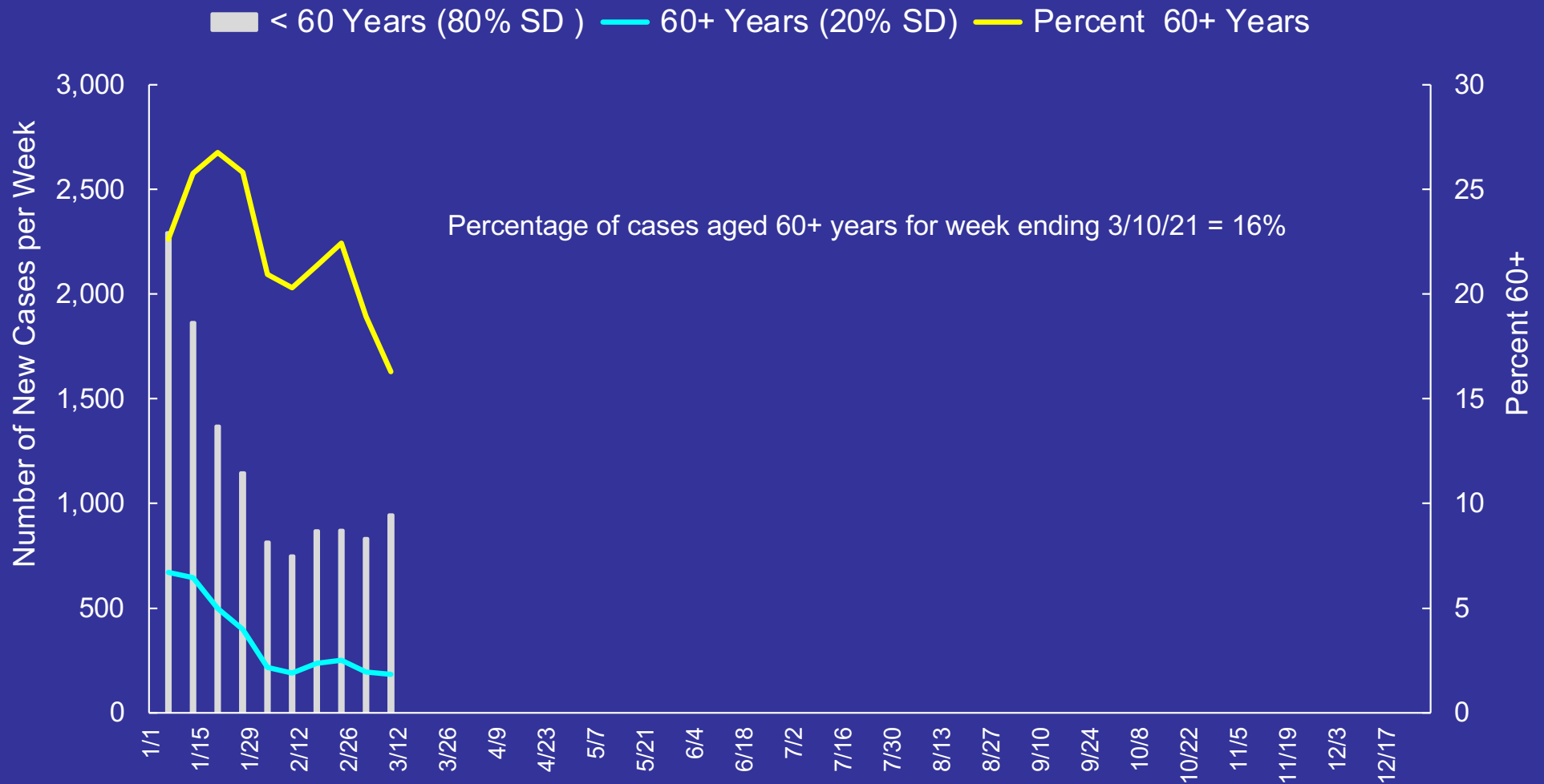


Substantial spread = 100+ new cases per week/100,000 population or 864+ cases/week for South Dakota.
Moderate spread = 10-100 cases per 100,000; Minimal spread = <10 cases/100,000.

South Dakota COVID-19 Situation

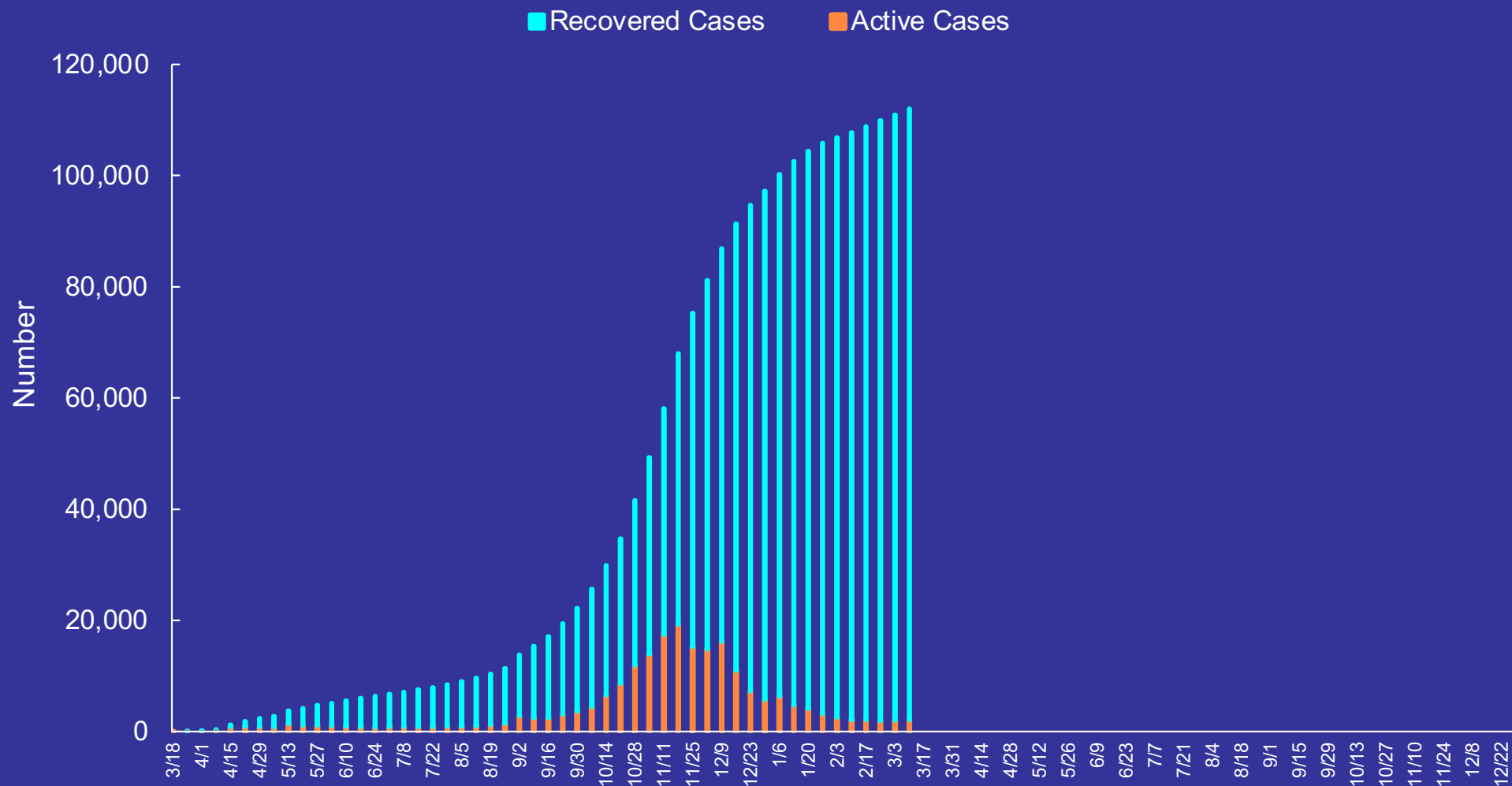
Age Distribution

2021 Number of Confirmed & Probable Cases by Age
per Week



South Dakota COVID-19 Situation

2020-2021 Number of Active & Recovered Cases ^

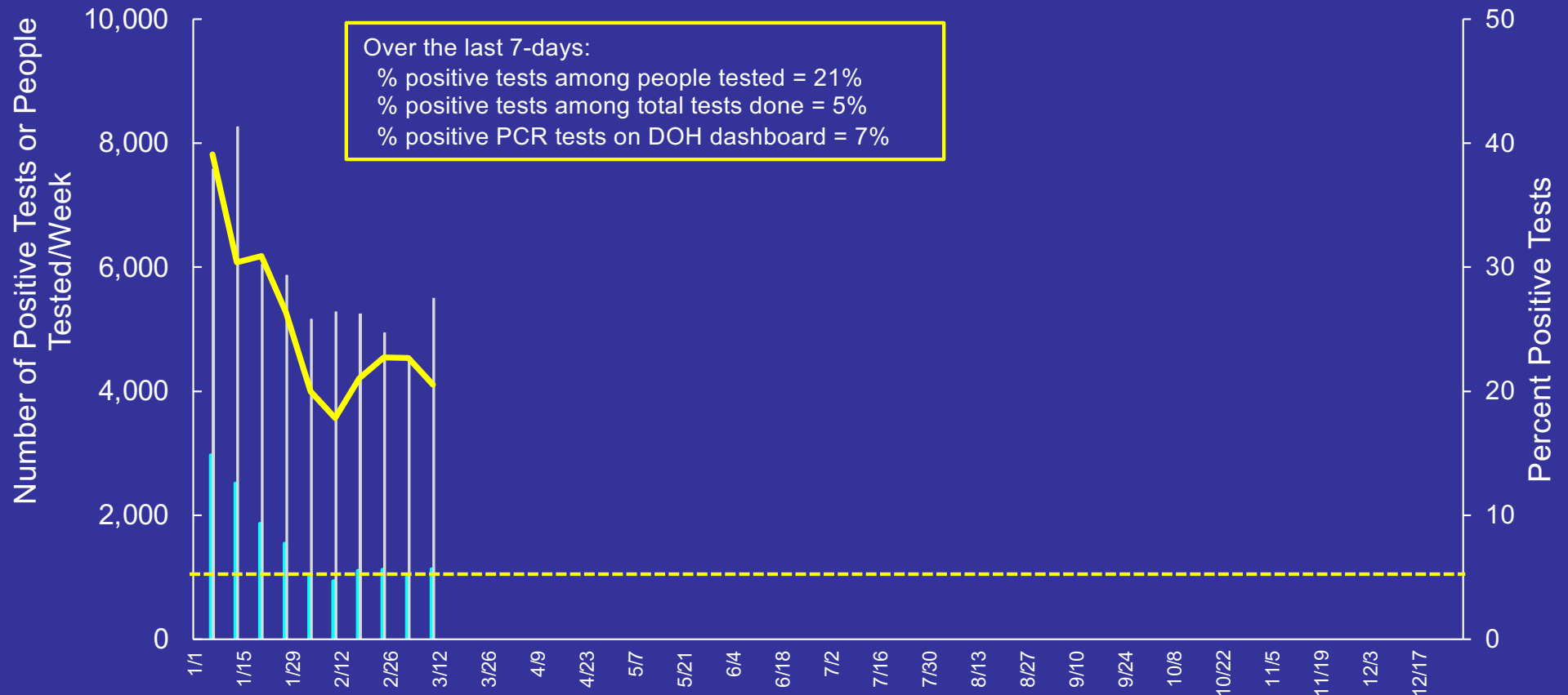


^ Recorded every Wednesday. Includes only state residents.

South Dakota COVID-19 Situation

2021 Percentage of Positive Tests (PCR + Antigen)

■ Number Positive Cases/week ■ Total unique people tested/week — 7-day average of % positive tests[^]

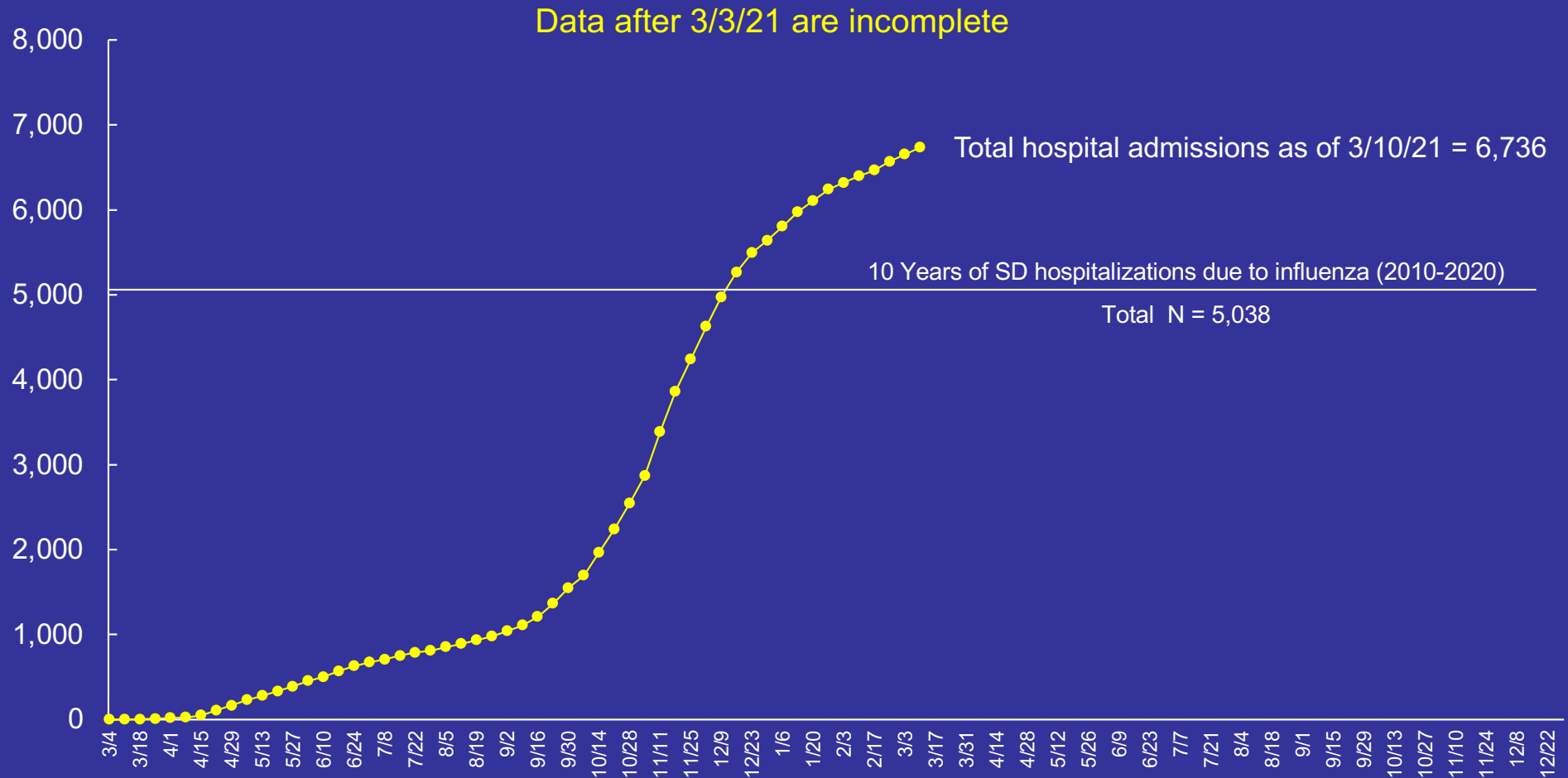


[^] Calculated as $\text{sum of 7-days of previous positive cases} / \text{sum of 7-days of total tests completed} * 100$. Duplicate tests on same individual not included. Used total cases and total persons tested on DOH website (includes sentinel & surveillance samples).

The rate of positivity provides insight into whether enough testing is being conducted. If positivity is high, it suggests that the sickest are being tested and milder or asymptomatic cases may be missed. The WHO has said that in countries that have extensive testing for COVID-19, percent positive should remain at 5% or lower for at least 14 days.

South Dakota COVID-19 Situation

2021 Cumulative Number of Hospitalizations by Week



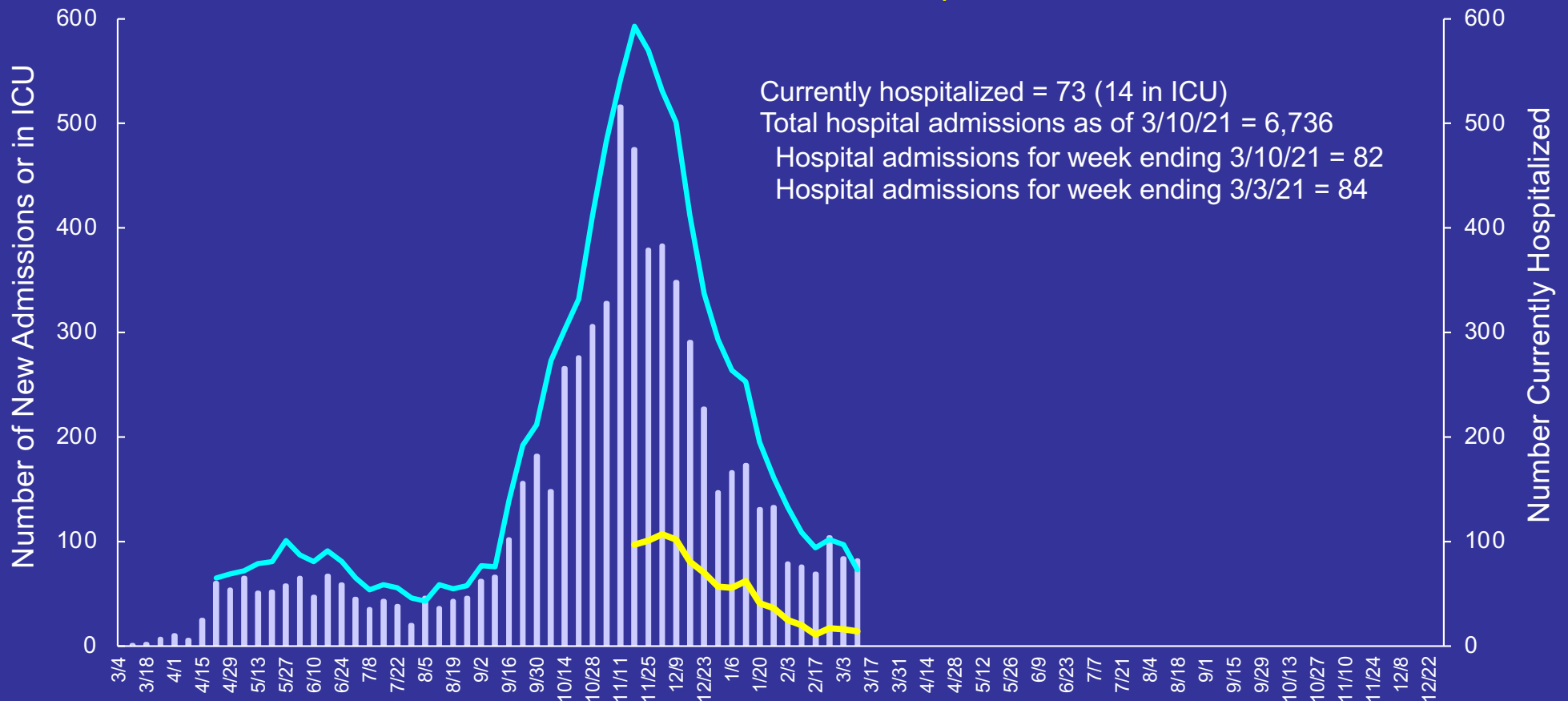
Includes only state residents.

South Dakota COVID-19 Situation

2020-2021 Weekly Hospitalization Data

■ New Admissions/week — Number in ICU — Currently Hospitalized in SD

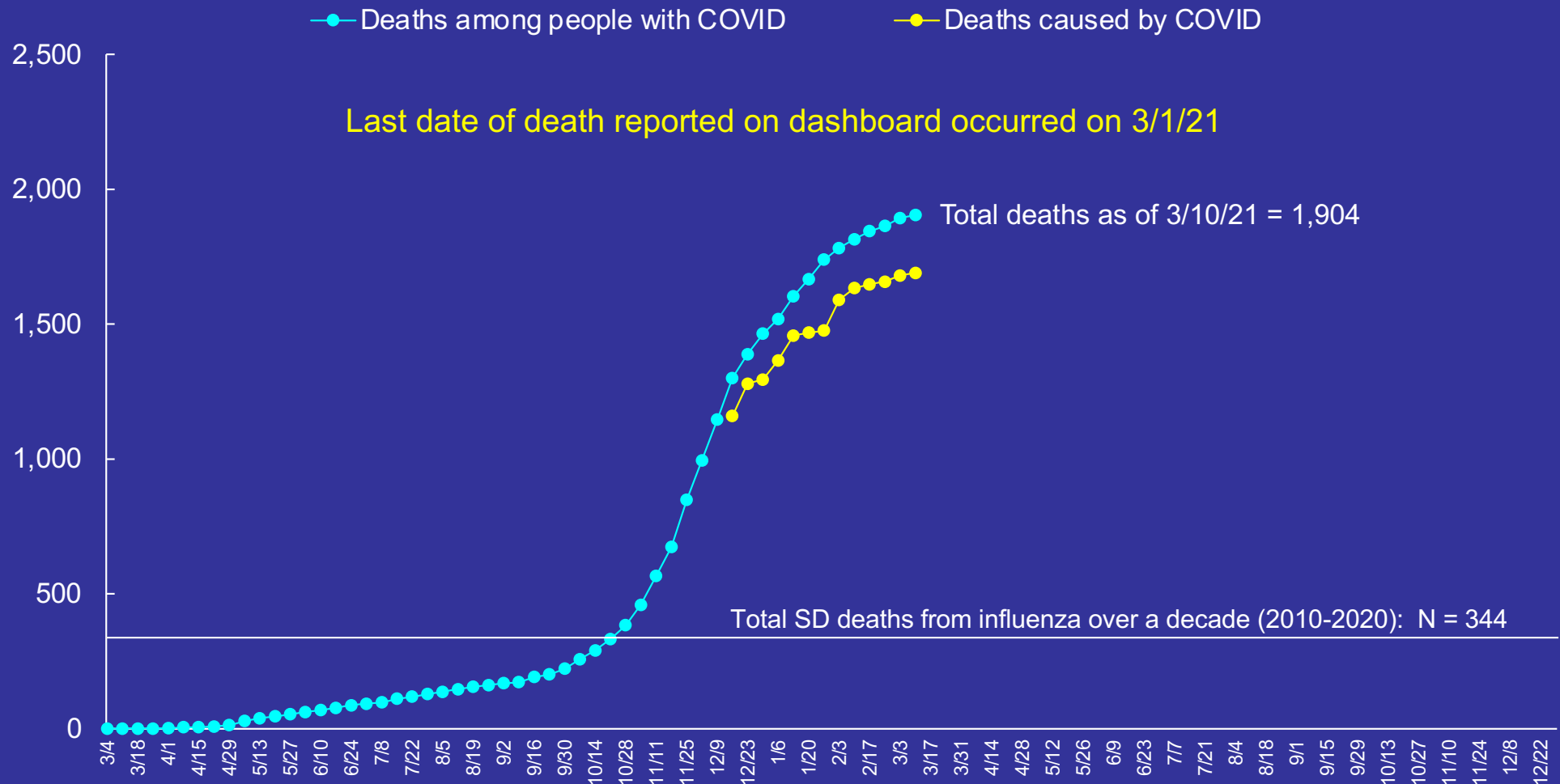
Data after 3/3/21 are incomplete



Currently hospitalized includes state and out-of-state residents and transfers in from other states, but not residents transferred out-of-state.
New admissions include only state residents; does not include patients on home health care.
Number in ICU and currently hospitalized recorded on Wednesdays.

South Dakota COVID-19 Situation

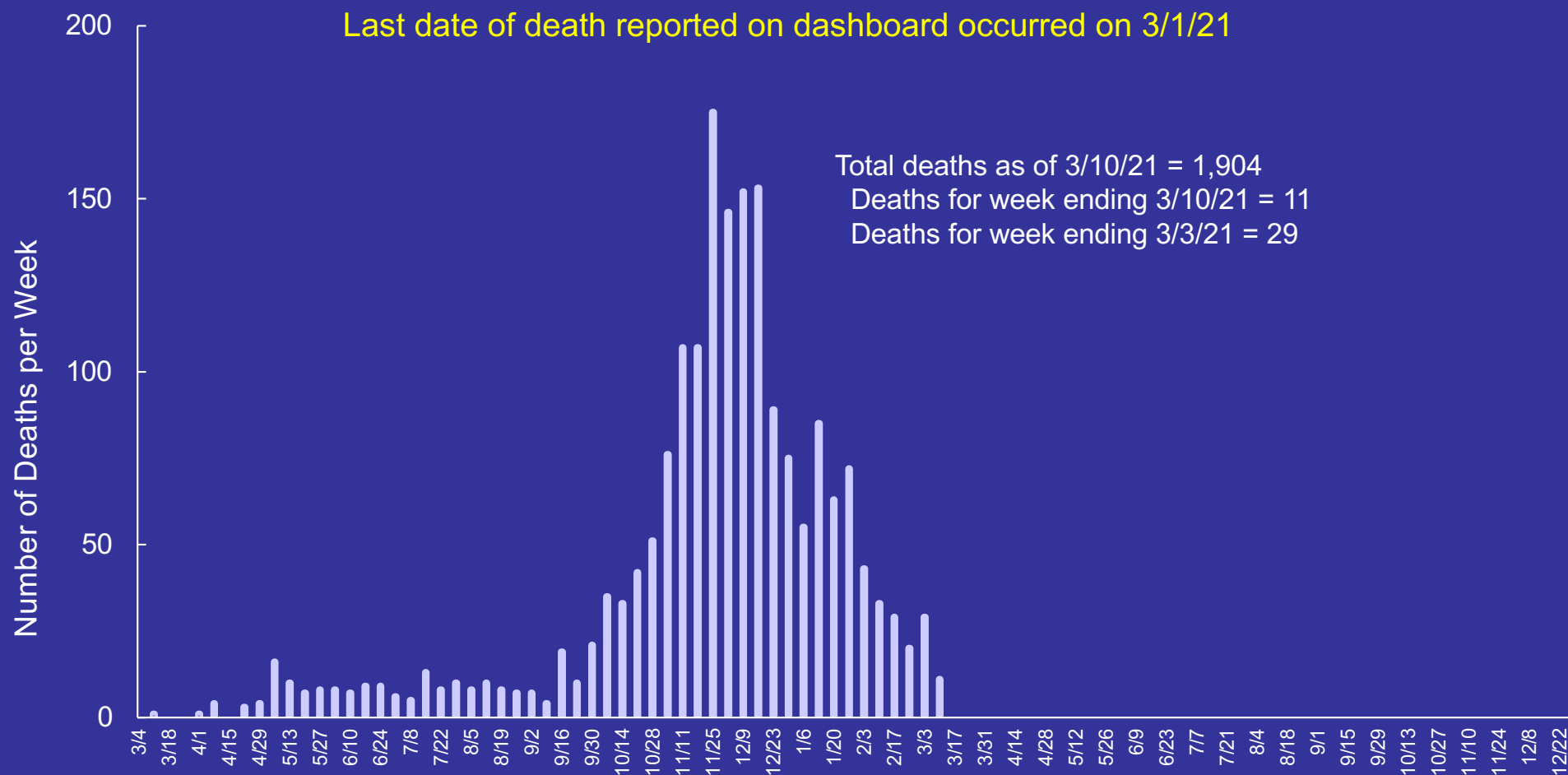
2021 Cumulative Number of Deaths by Week



Dept of Health does not report deaths until a certified death record is filed. By law, a death record must be filed within 5 days of the date of death. Deaths caused by COVID based on death certificates where COVID is cause of death or contributing cause. Deaths among people with COVID include death certificates stating COVID as well as data from national surveillance system that identifies COVID cases and deaths within 20 days of infection that do not include COVID on death certificate. See DOH dashboard, death tab for detailed definitions.

South Dakota COVID-19 Situation

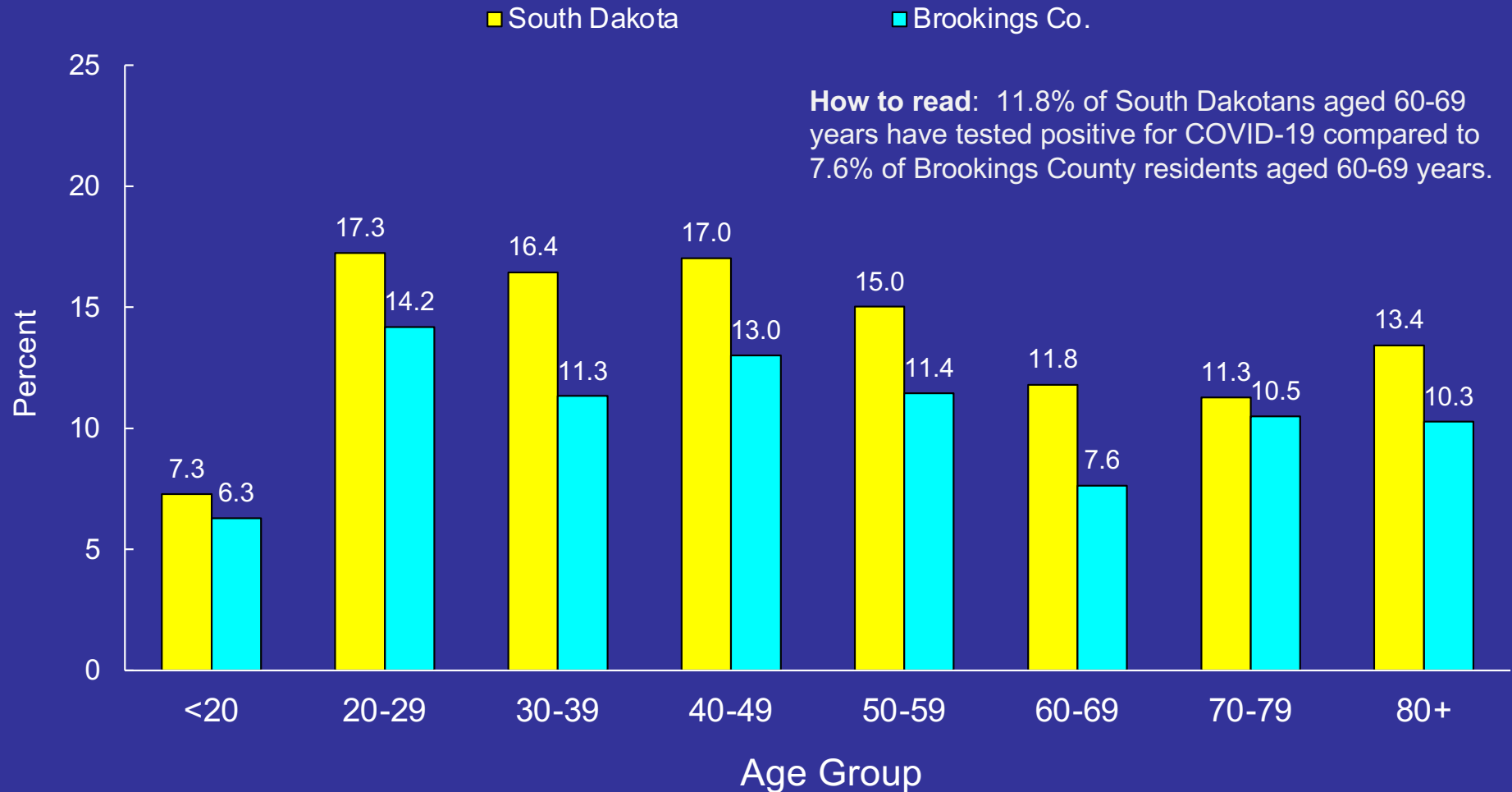
2020-21 Number of Deaths per Week among People with COVID-19



See DOH dashboard, death tab for detailed definitions.

South Dakota COVID-19 Situation

Percent of South Dakota & Brookings Population Ever Testing Positive by Age as of March 10, 2021

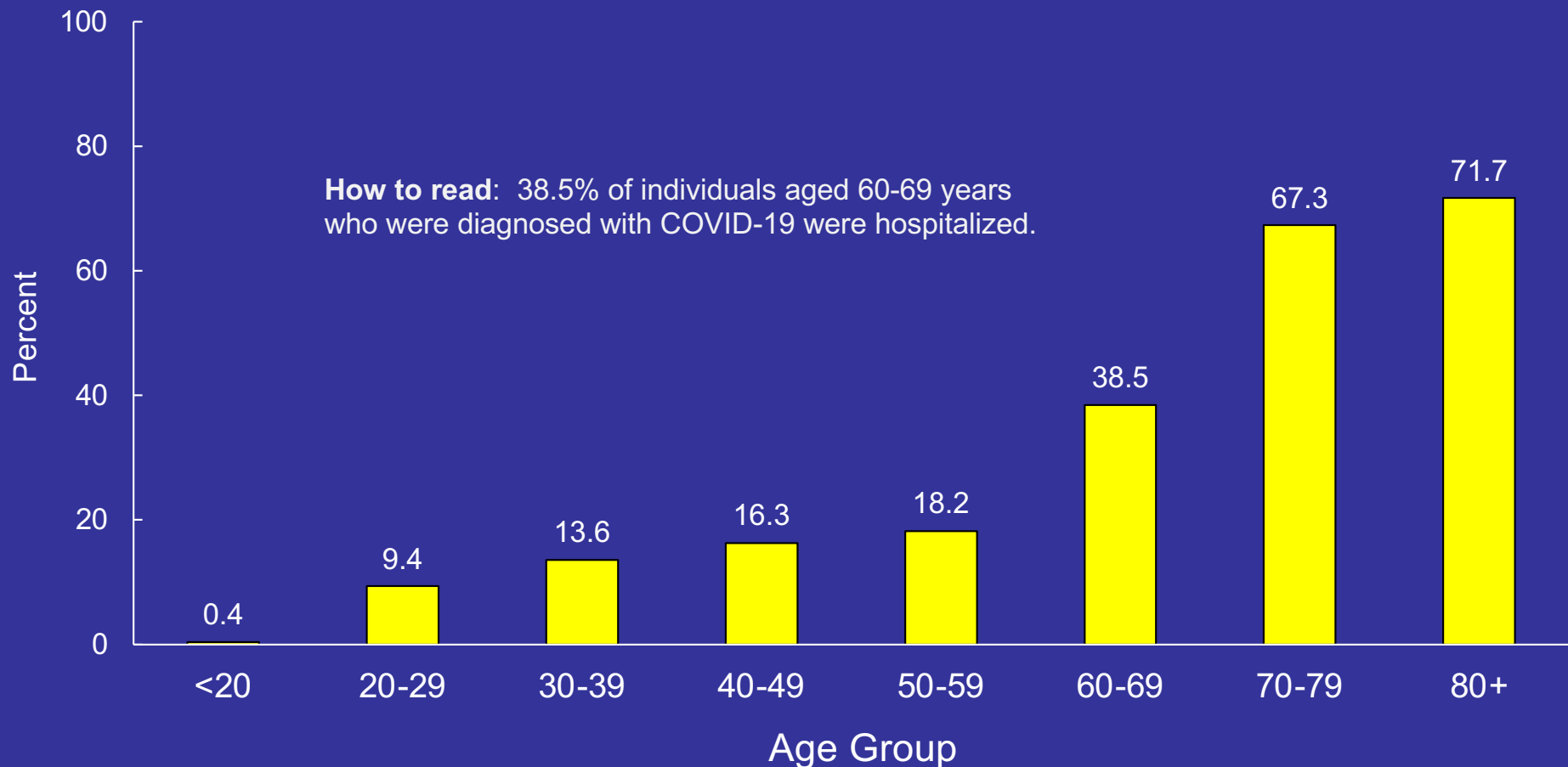


Overall, the percent of population testing positive is:
12.9% for South Dakota
10.4% for Brookings County

2019 SD Pop (US Census)
<https://doh.sd.gov/COVID/Dashboard.aspx>
Brookings data from SD Department of Health

South Dakota COVID-19 Situation

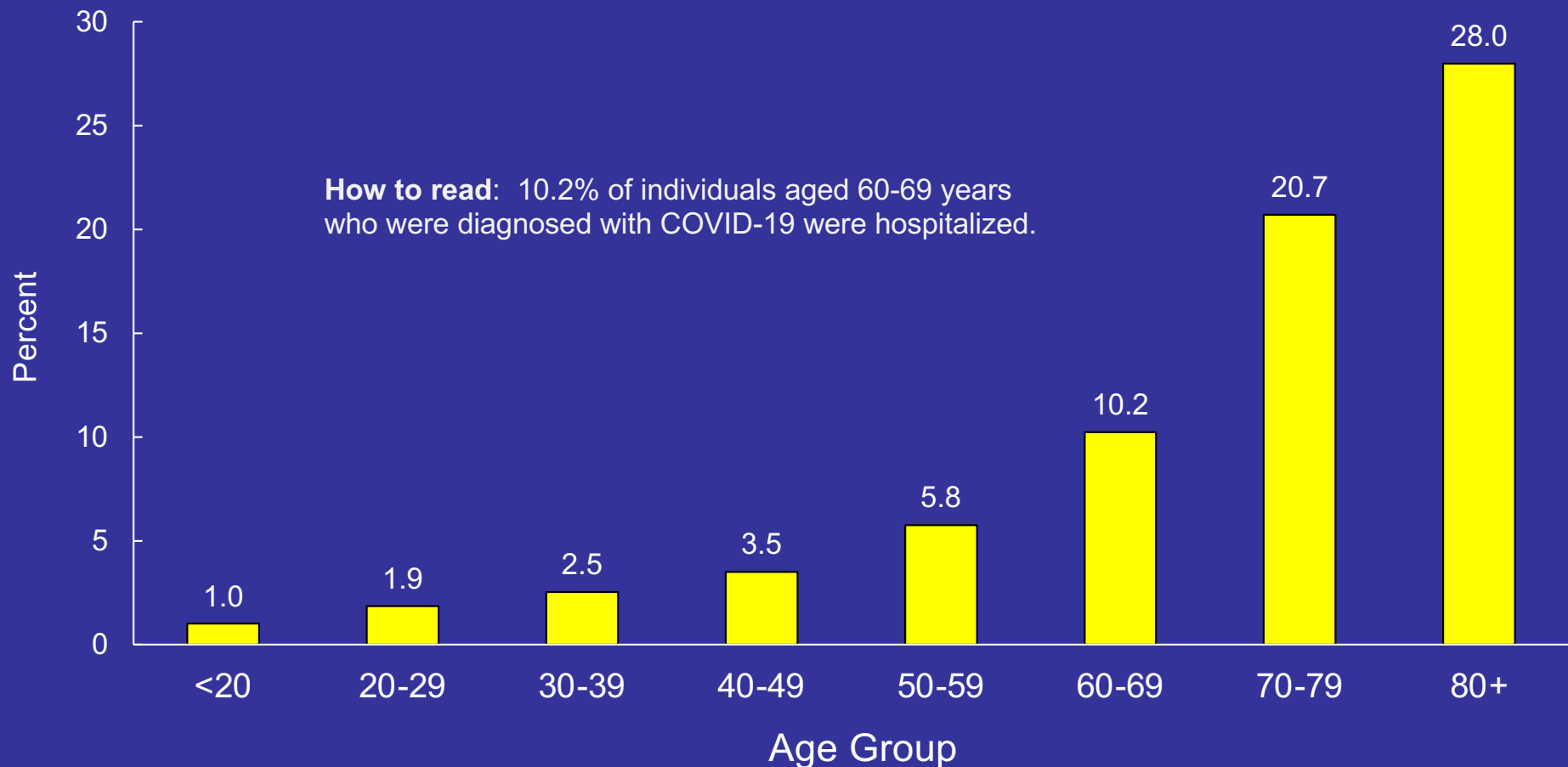
Percent of Population Receiving at Least One Vaccine by Age
as of March 10, 2021



Overall, 27% of South Dakotans aged 20+ years have been immunized.
Includes data from Veterans Affairs and Indian Health Services.

South Dakota COVID-19 Situation

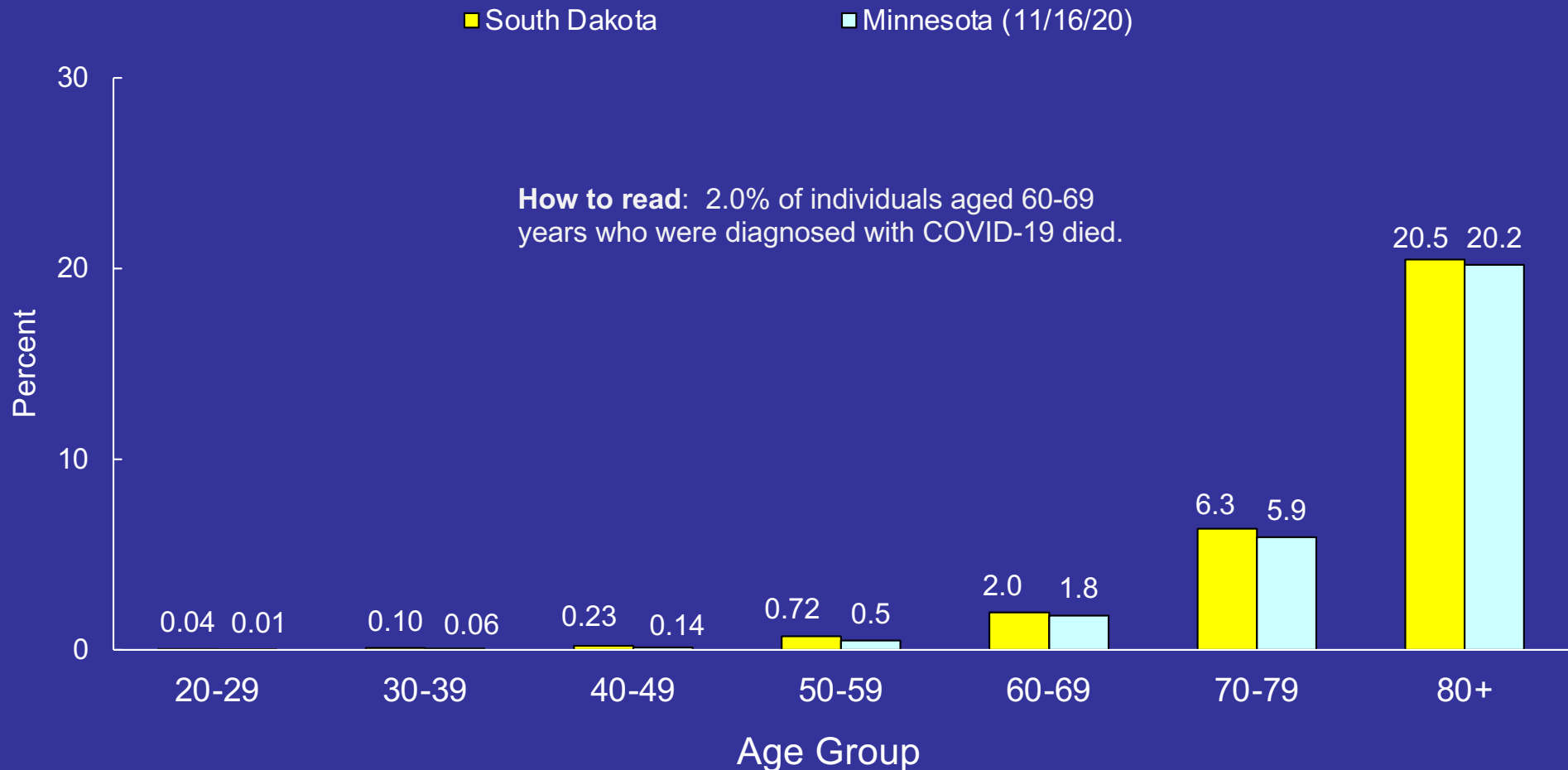
Percent of Cases Ever Hospitalized by Age
as of March 10, 2021



Overall, 5.9% of South Dakotans who tested positive have been hospitalized.
Calculated as (ever hospitalized/tested positive)*100 using South Dakota data.

South Dakota COVID-19 Situation

Case Fatality Rates by Age
South Dakota updated on March 10, 2021



Overall case fatality rate for South Dakota is 1.7%.

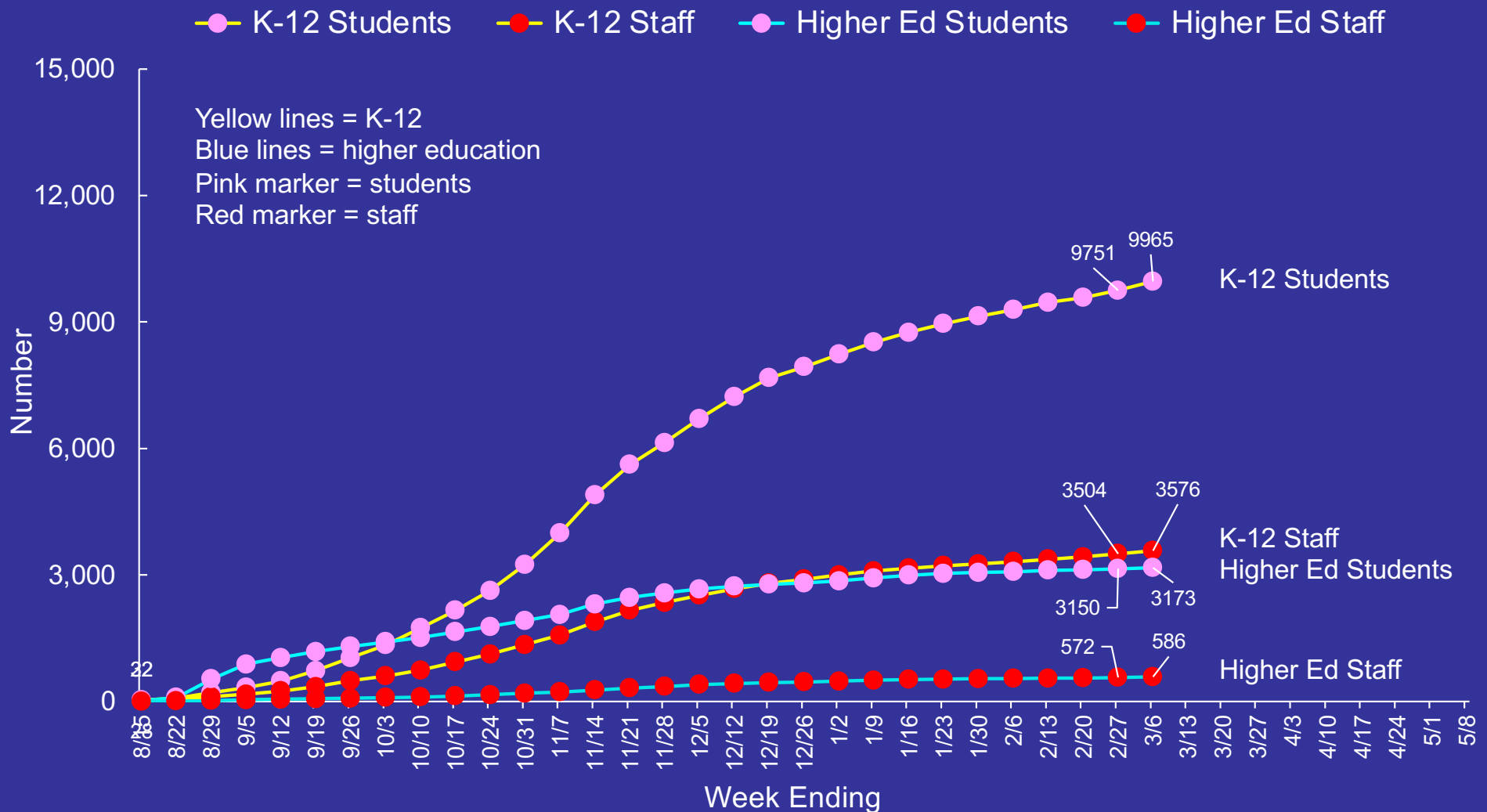
Case fatality rate calculated as $\text{COVID deaths} / (\text{COVID deaths} + \text{recovered}) * 100$ (<https://doh.sd.gov/COVID/Dashboard.aspx>)

Minnesota data: $\text{CFR} = (\text{deaths/cases}) * 100$ (<https://www.health.state.mn.us/diseases/coronavirus/stats/covidweekly46.pdf>)

Data not given for ages <19 years.

South Dakota School Situation

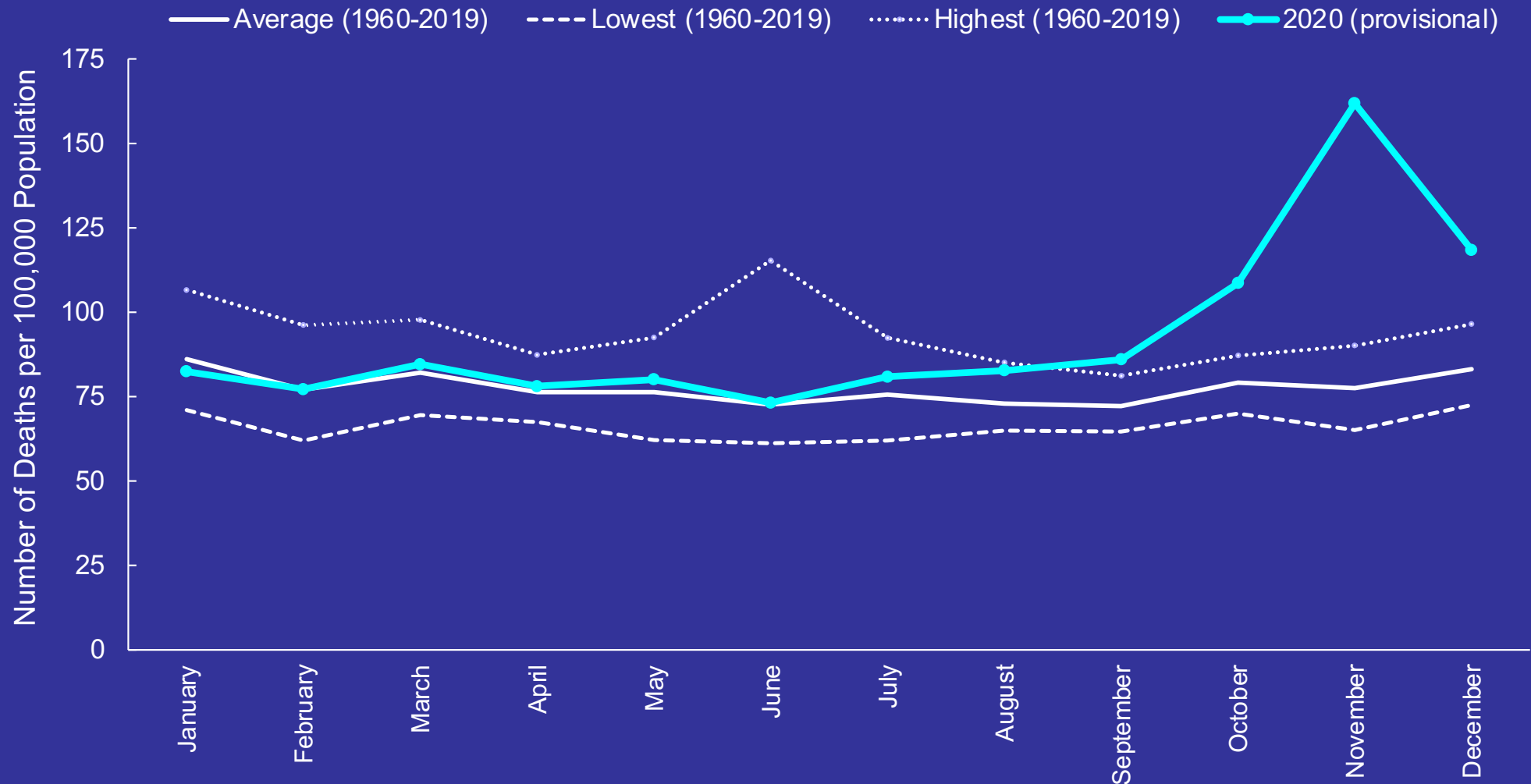
Cumulative Number of COVID-19 Cases by Week



Probable cases added retroactively on 2/22/21.

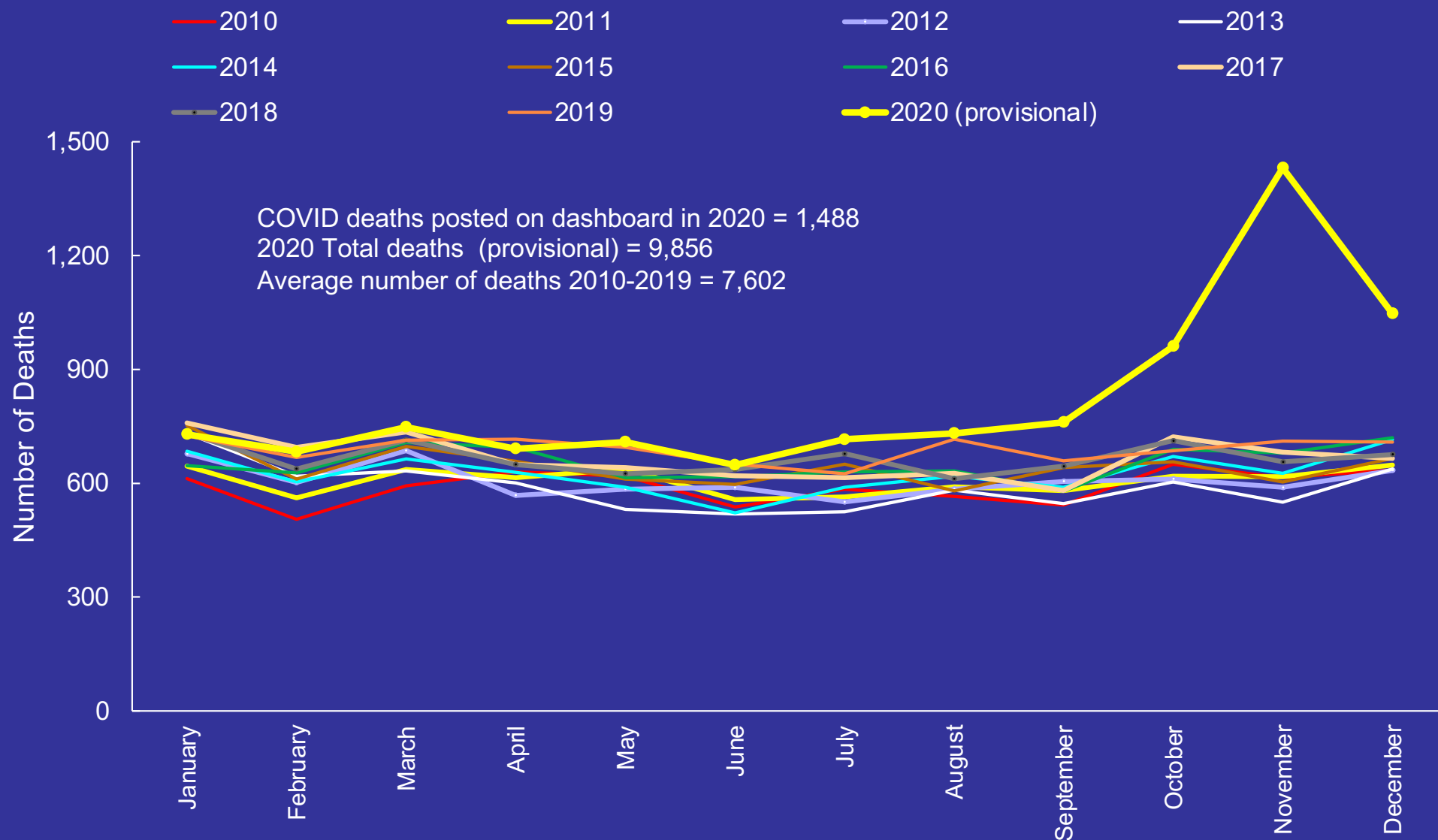
South Dakota Deaths

Deaths per 100,000 Population by Month with Average and Lowest and Highest Rates from 1960 to 2019



South Dakota Deaths

Number of Deaths by Year and Month

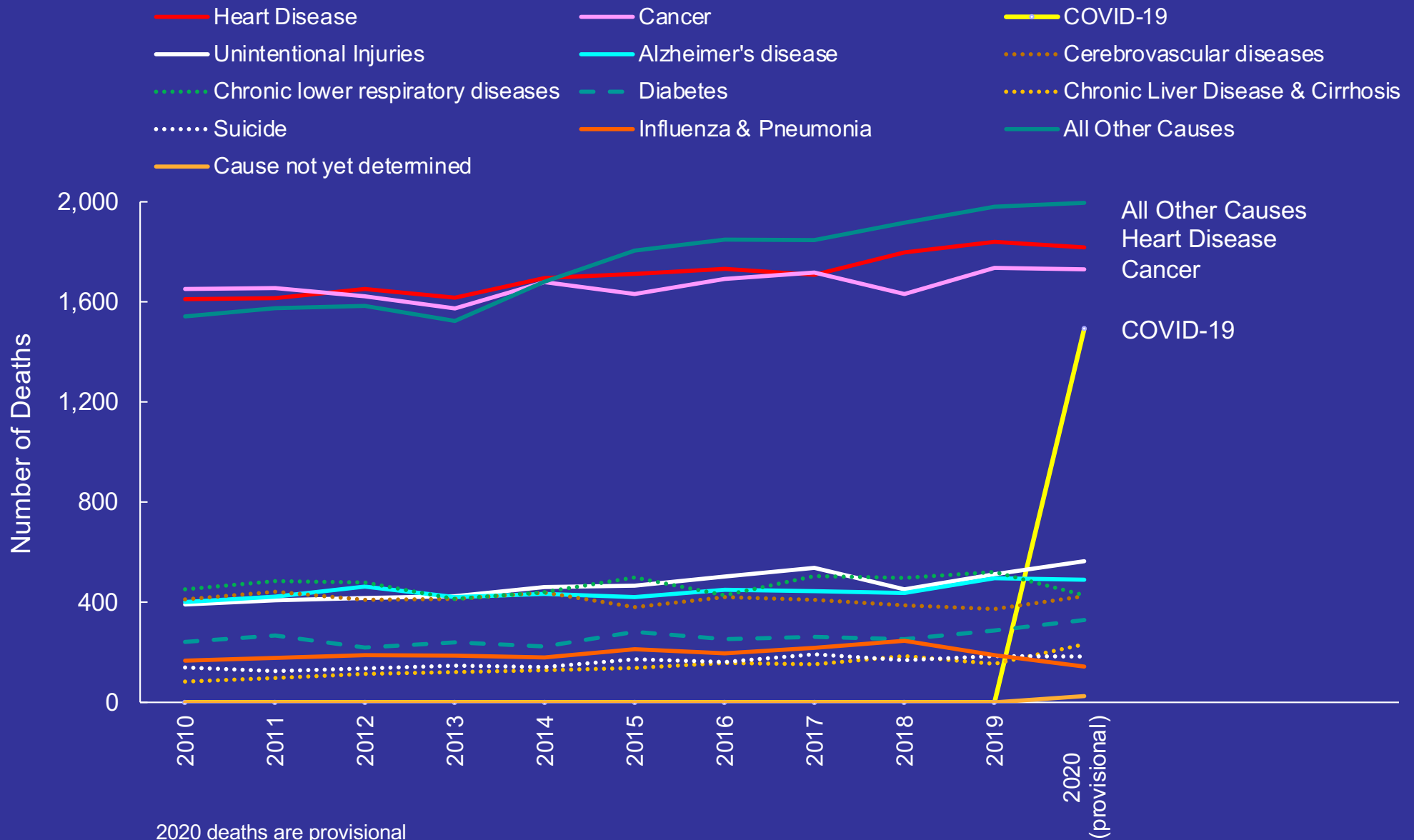


<https://doh.sd.gov/statistics/>

<https://doh.sd.gov/documents/statistics/Mortality-Report-2020.pdf>

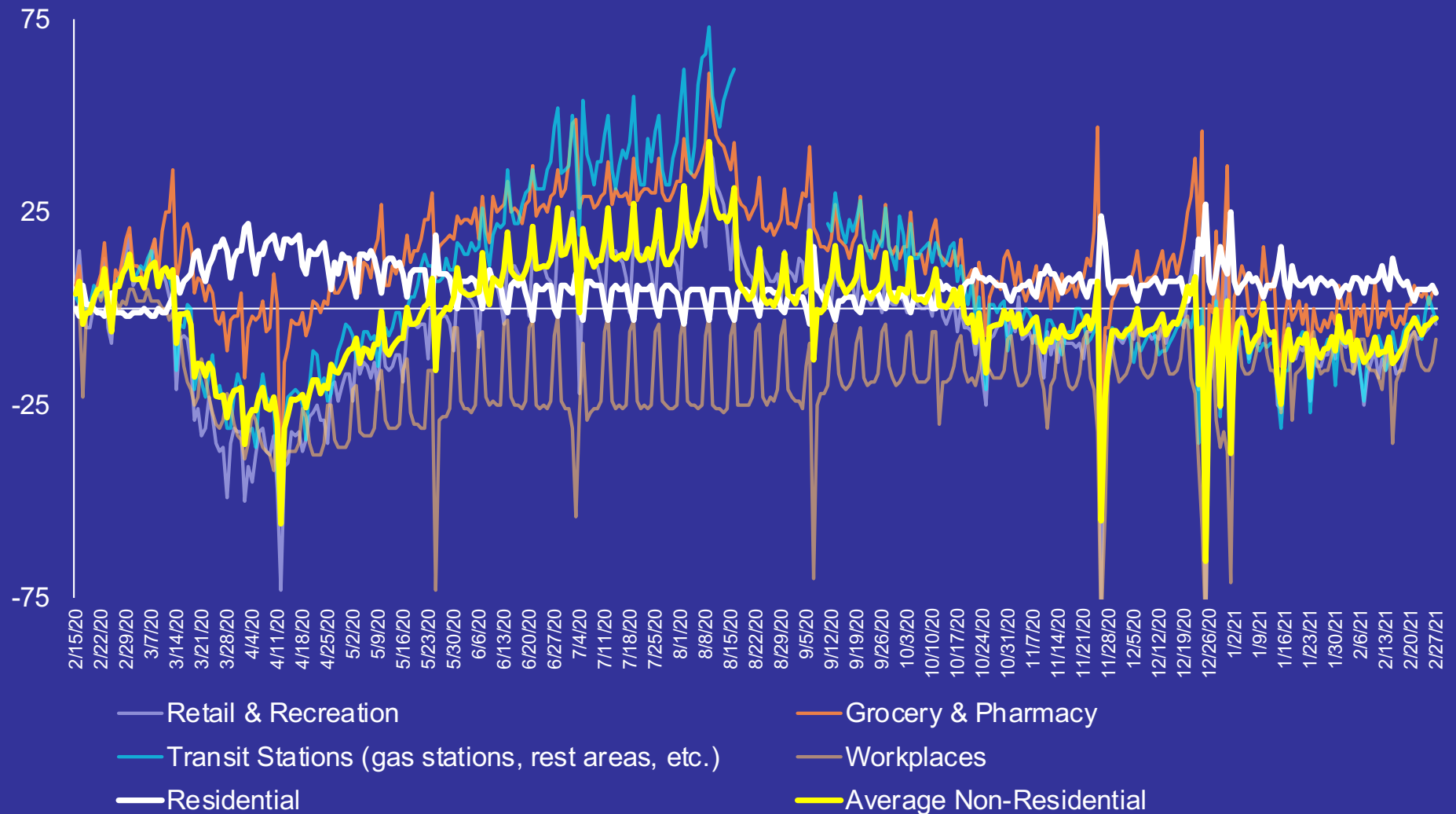
South Dakota Deaths

Number of Deaths by Cause and Year



South Dakota Mobility Data via Google

Percent Change in Mobility



Baseline: normal value for day of week (1/3-2/6/20)

Residential shows a change in duration, other categories are change in total visitors. *Parks* not shown.

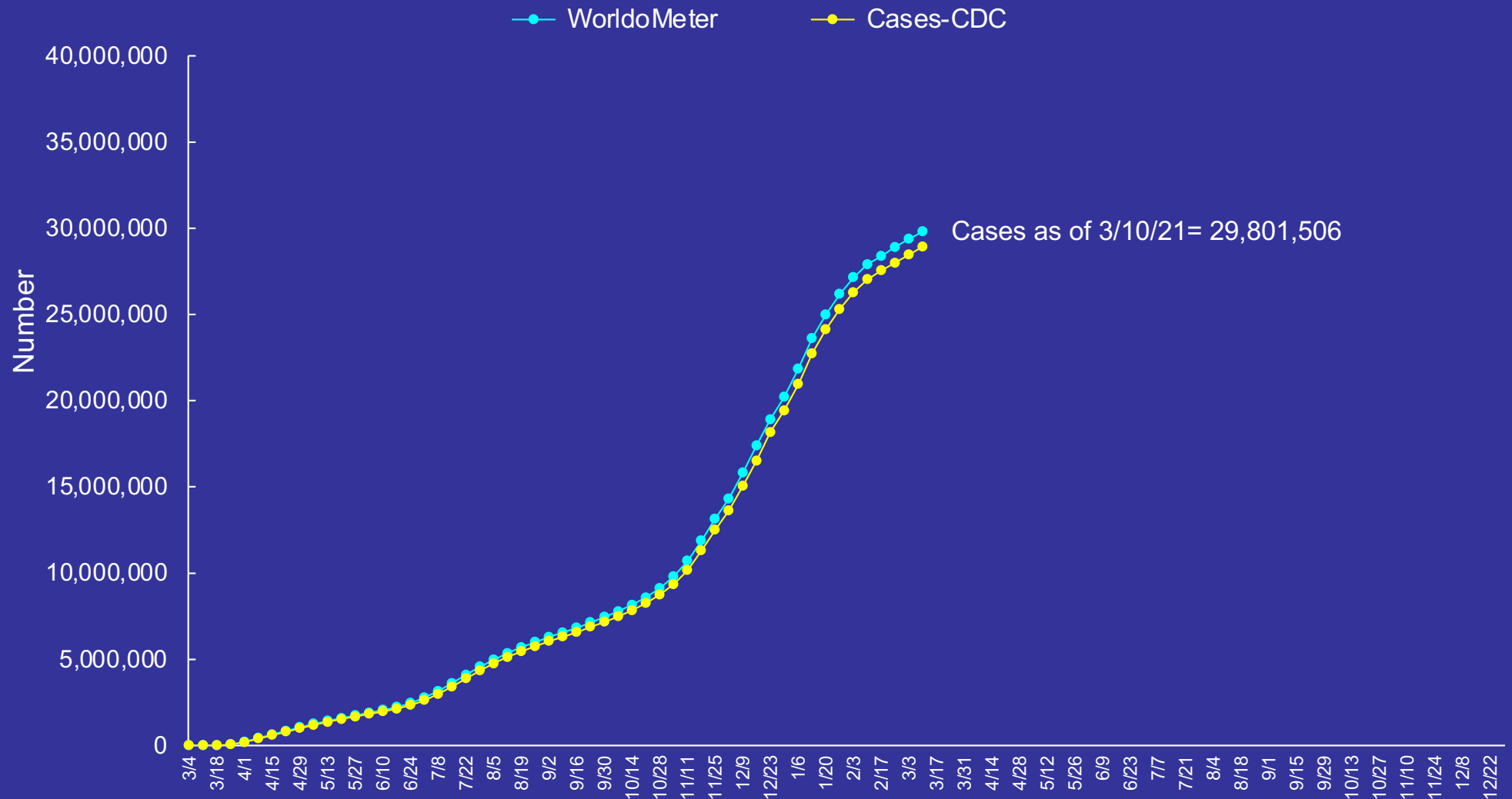
Data from Google COVID-19 Community Mobility Reports: <https://www.google.com/covid19/mobility/>

COVID-19 Situation

U.S.

U.S. COVID-19 Situation

Cumulative Number of Confirmed Cases by Week

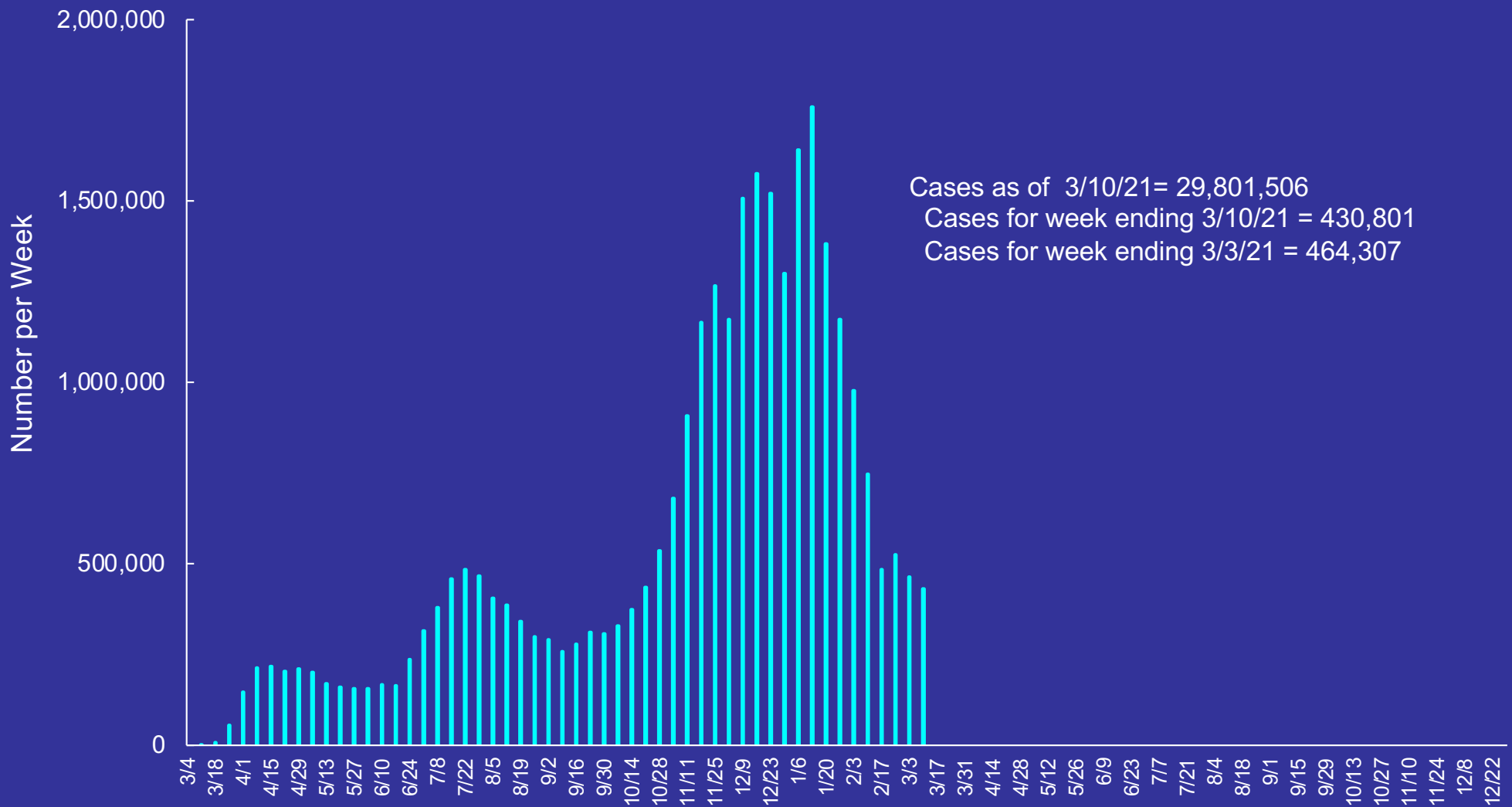


Numbers cited are from WorldoMeter

<https://www.worldometers.info/coronavirus/#countries>
<https://www.cdc.gov/coronavirus/2019-ncov/cases-in-us.html>

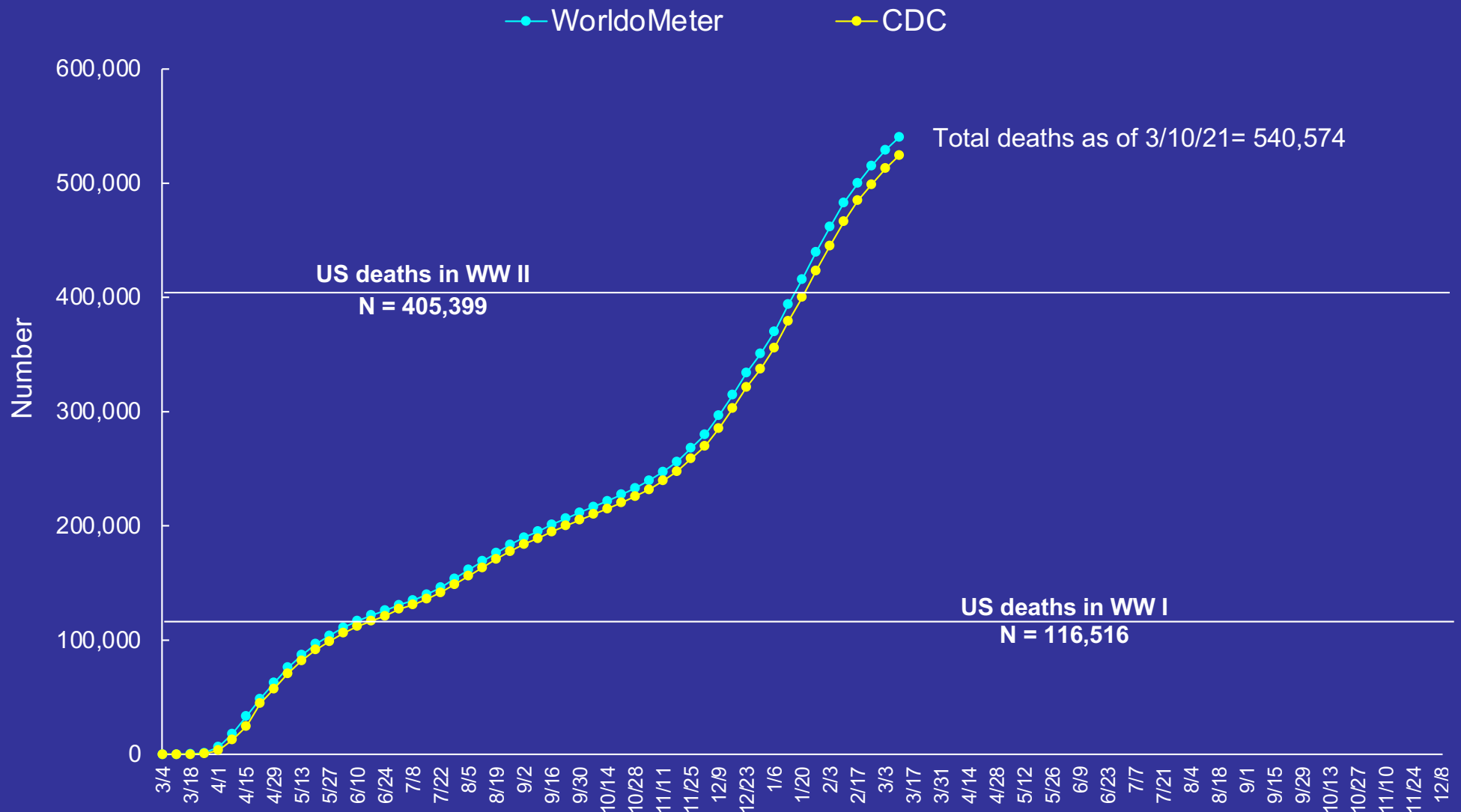
U.S. COVID-19 Situation

Number of Newly Diagnosed Cases per Week



U.S. COVID-19 Situation

Cumulative Number of Deaths from COVID-19 by Week

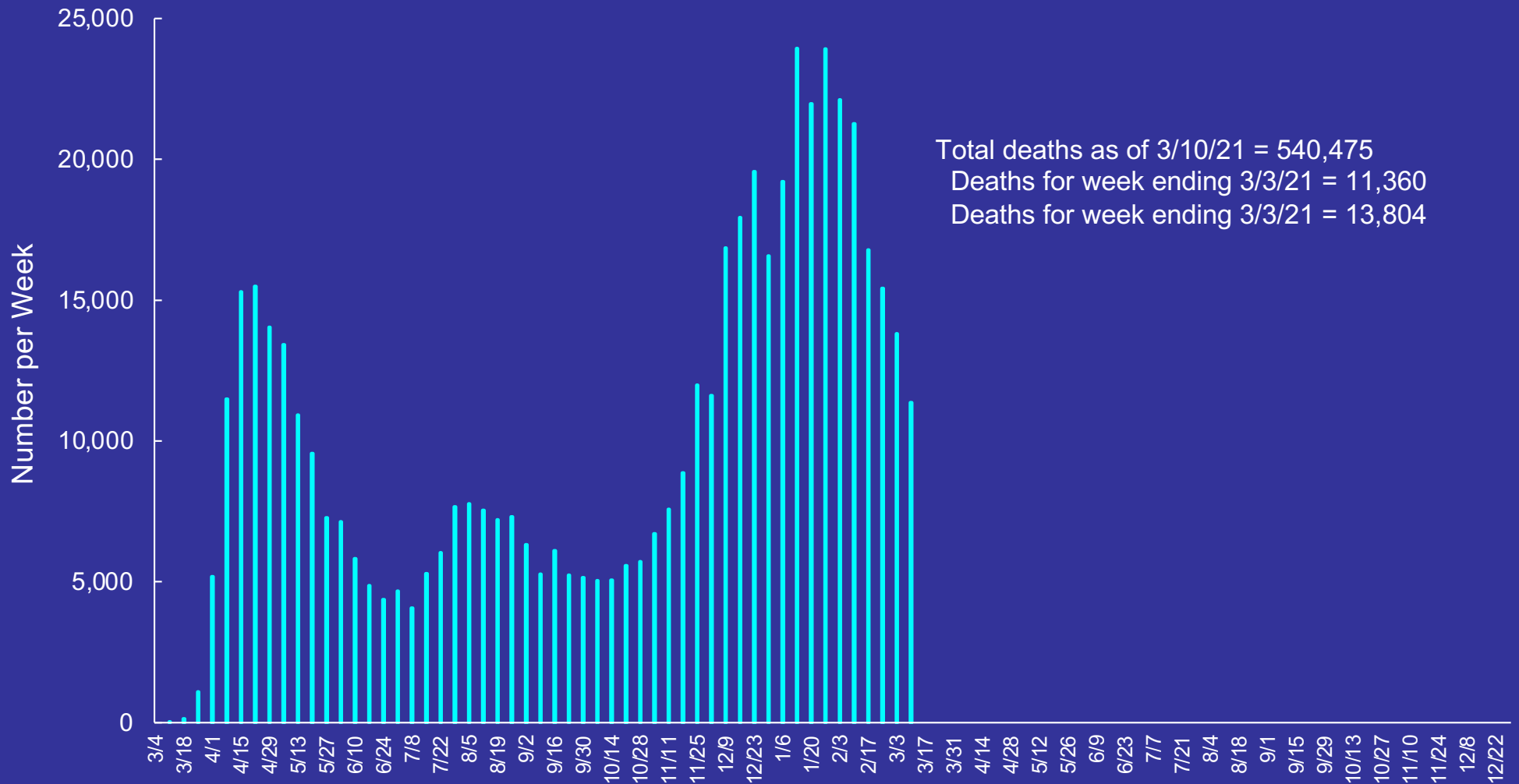


Numbers cited are from WorldoMeter

<https://www.worldometers.info/coronavirus/#countries>
<https://www.cdc.gov/coronavirus/2019-ncov/cases-in-us.html>

U.S. COVID-19 Situation

Number of Deaths per Week from COVID-19



Total deaths as of 3/10/21 = 540,475
Deaths for week ending 3/3/21 = 11,360
Deaths for week ending 3/3/21 = 13,804

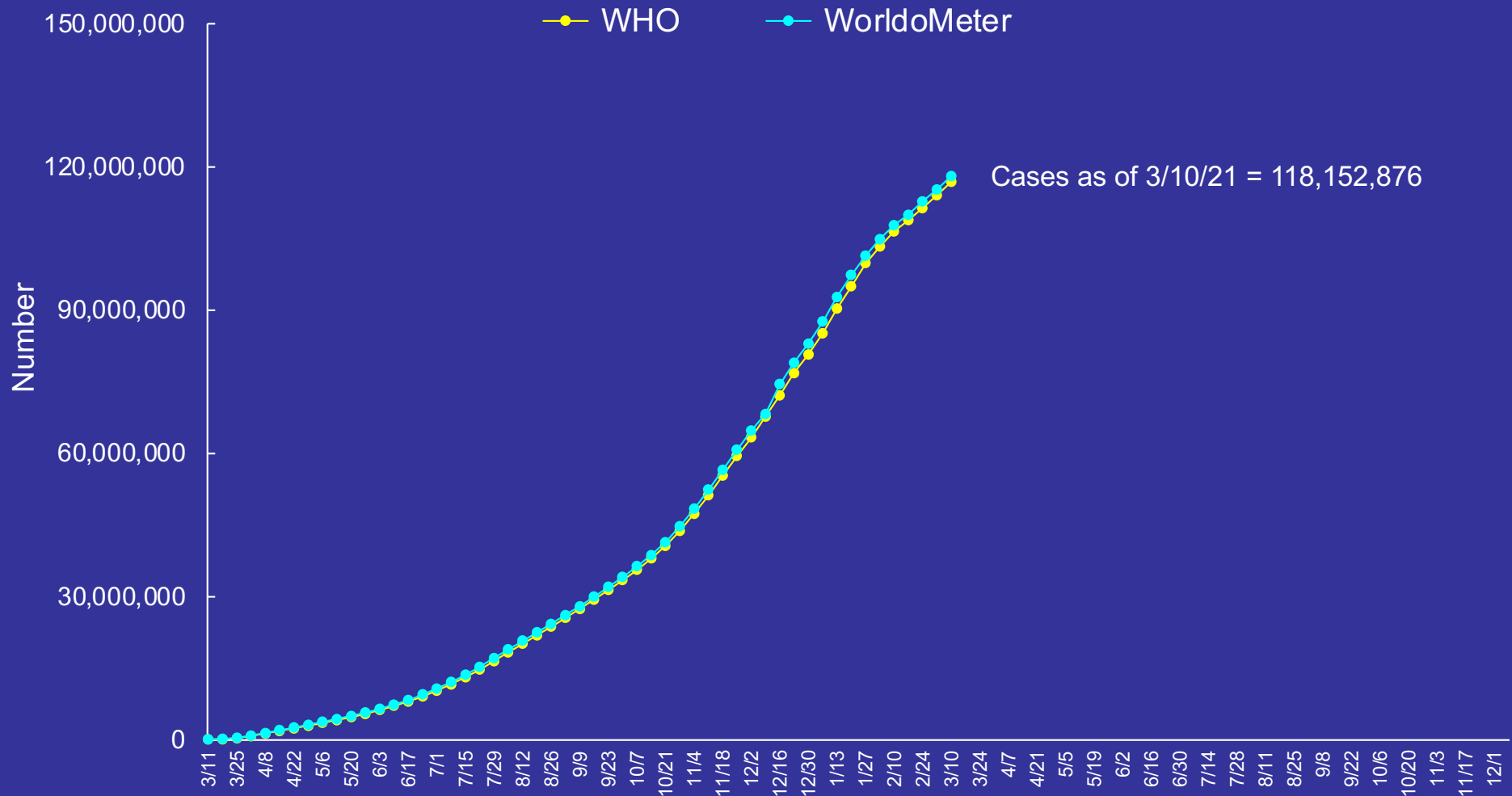
Numbers cited are from WorldoMeter

<https://www.worldometers.info/coronavirus/#countries>

COVID-19 Situation World

World COVID-19 Situation

Cumulative Number of Confirmed Cases

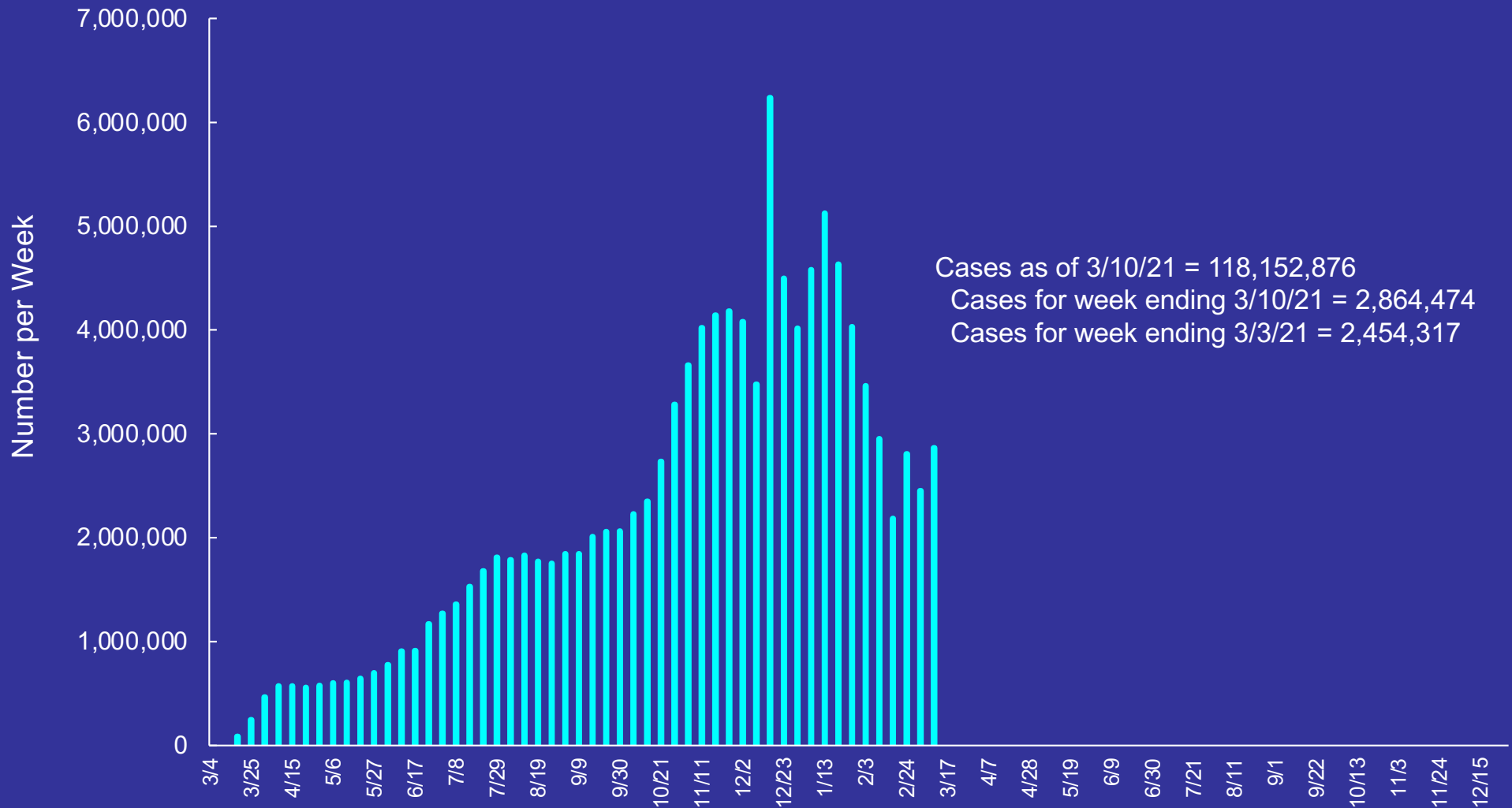


Numbers cited are from WorldoMeter

<https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports>
<https://www.worldometers.info/coronavirus/>

World COVID-19 Situation

Number of Newly Confirmed Cases per Week



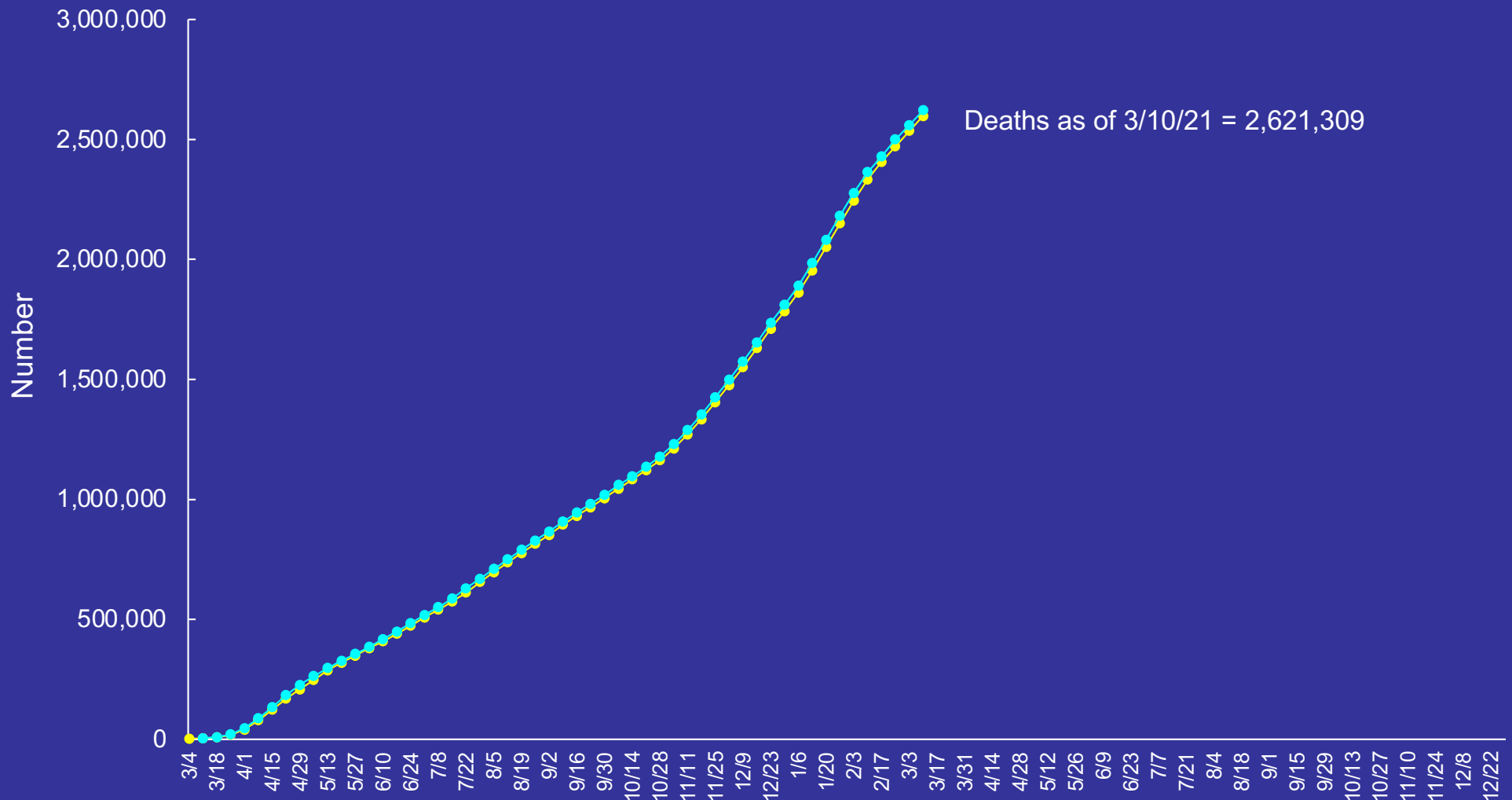
Numbers cited are from WorldoMeter

<https://www.worldometers.info/coronavirus/>

World COVID-19 Situation

Cumulative Number of Deaths from COVID-19

—●— WHO —●— WorldoMeter

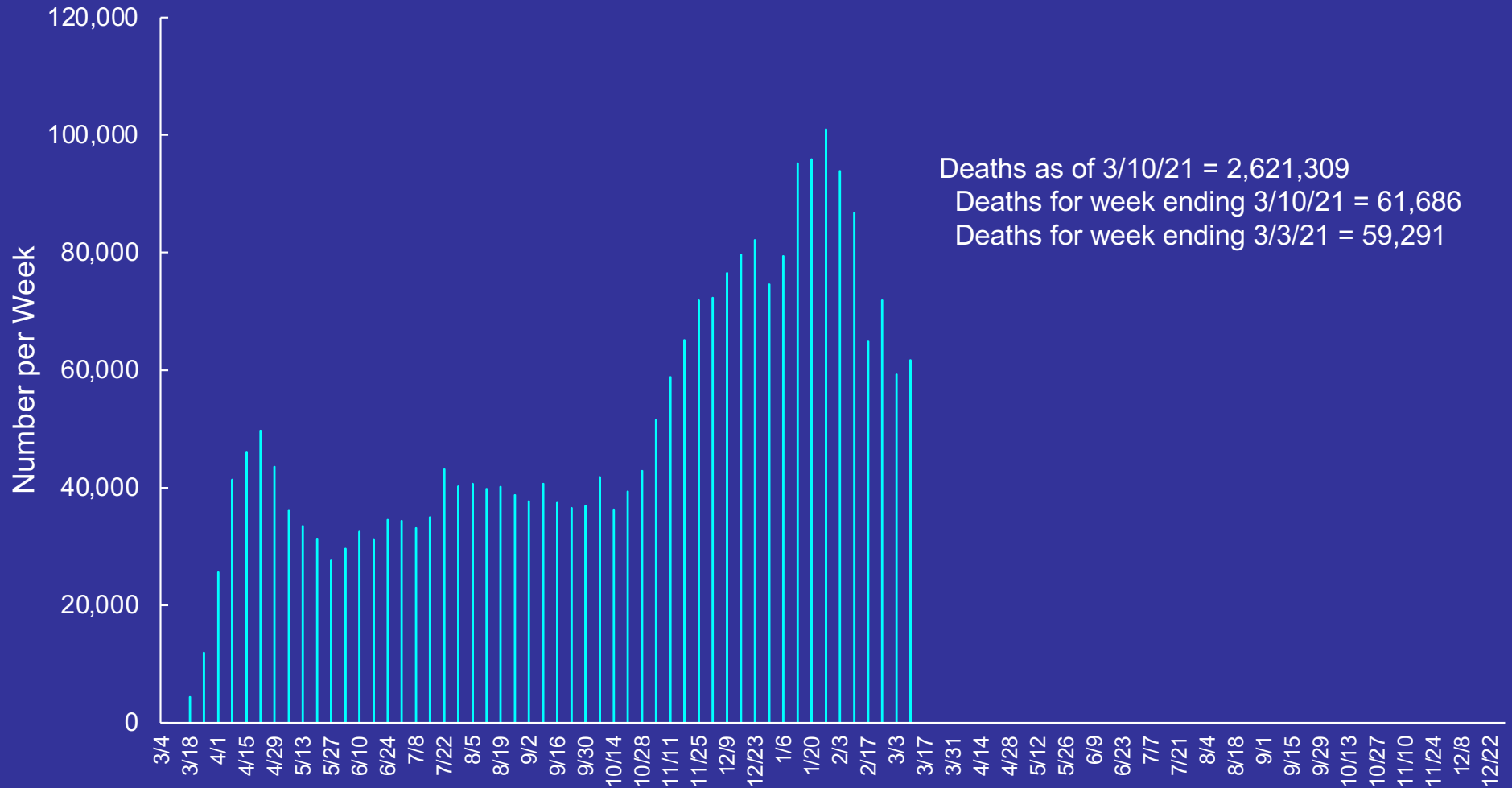


Numbers cited are from WorldoMeter

<https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports>
<https://www.worldometers.info/coronavirus/>

World COVID-19 Situation

Number of Deaths from COVID per Week



Deaths as of 3/10/21 = 2,621,309
Deaths for week ending 3/10/21 = 61,686
Deaths for week ending 3/3/21 = 59,291

Numbers cited are from WorldoMeter