

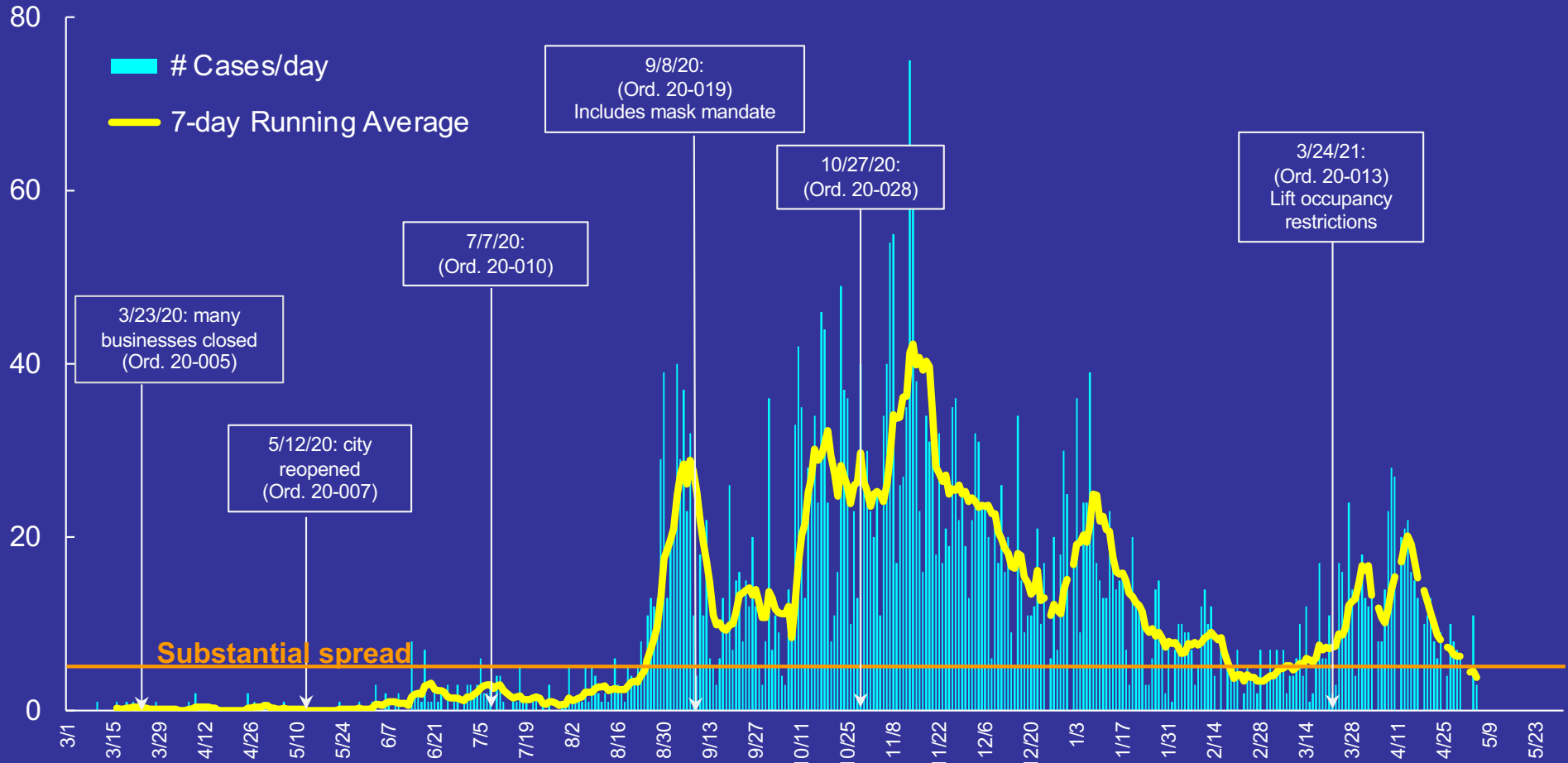
# **COVID-19 Situation**

## **Daily Case Data**

# Brookings COVID-19 Situation

## Number of Confirmed & Probable COVID-19 Cases by Day

Current Level of Community Spread<sup>^</sup>: **substantial**



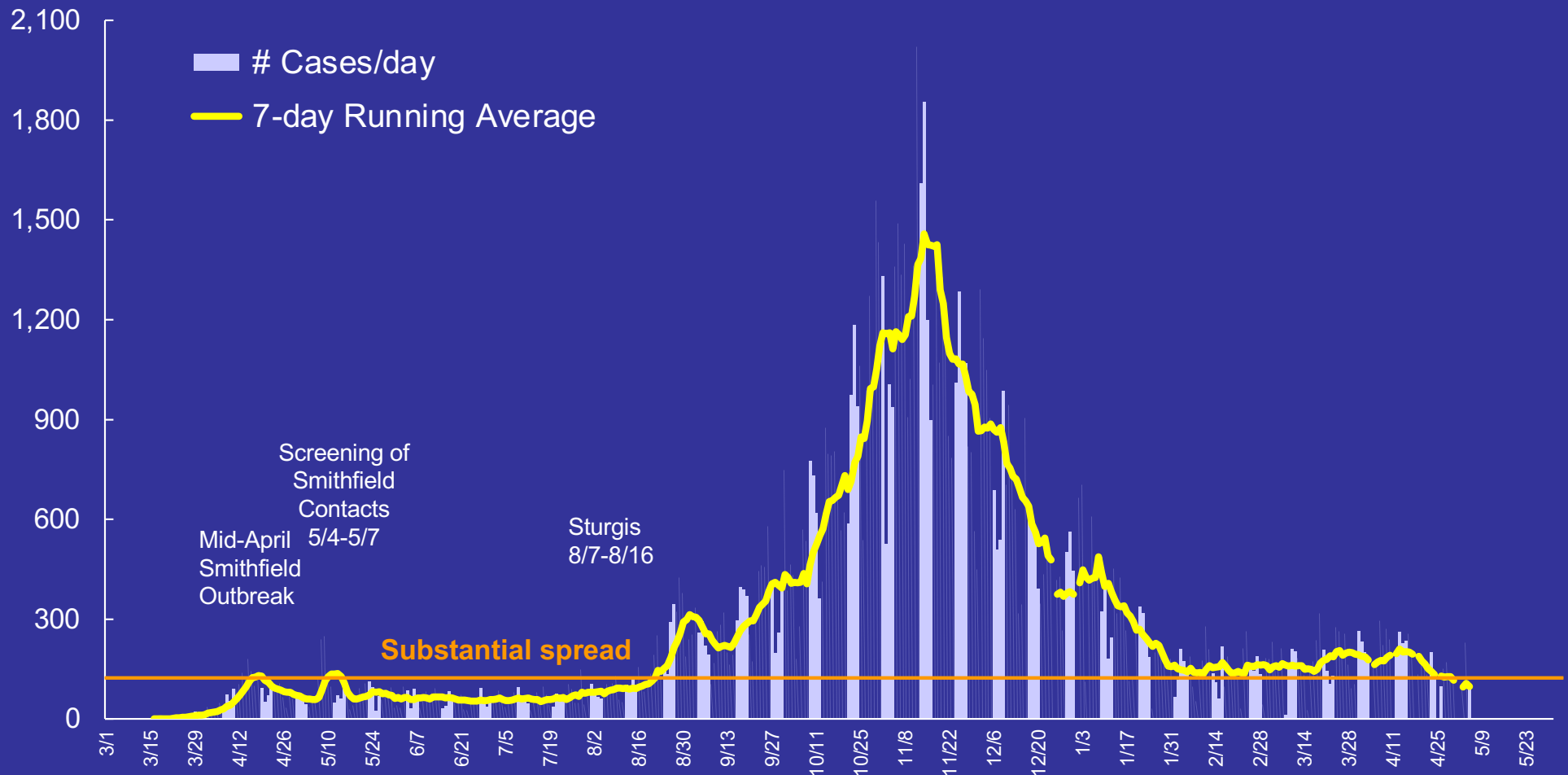
Substantial spread = 100+ new cases per week/100,000 population or 34 cases/week or 5 cases/day for Brookings County.

No SDDOH data update on 11/26, 12/25 & 1/1; data reported 11/27 was divided between 11/26 & 11/27.

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

# South Dakota COVID-19 Situation

## Number of Confirmed & Probable Cases by Day



Substantial spread = 100+ new cases per week/100,000 population or 864+ cases/week or 123+ cases/day for South Dakota

No SDDOH data update on 11/26, 12/25 & 1/1; data reported 11/27 was divided equally between 11/26 & 11/27

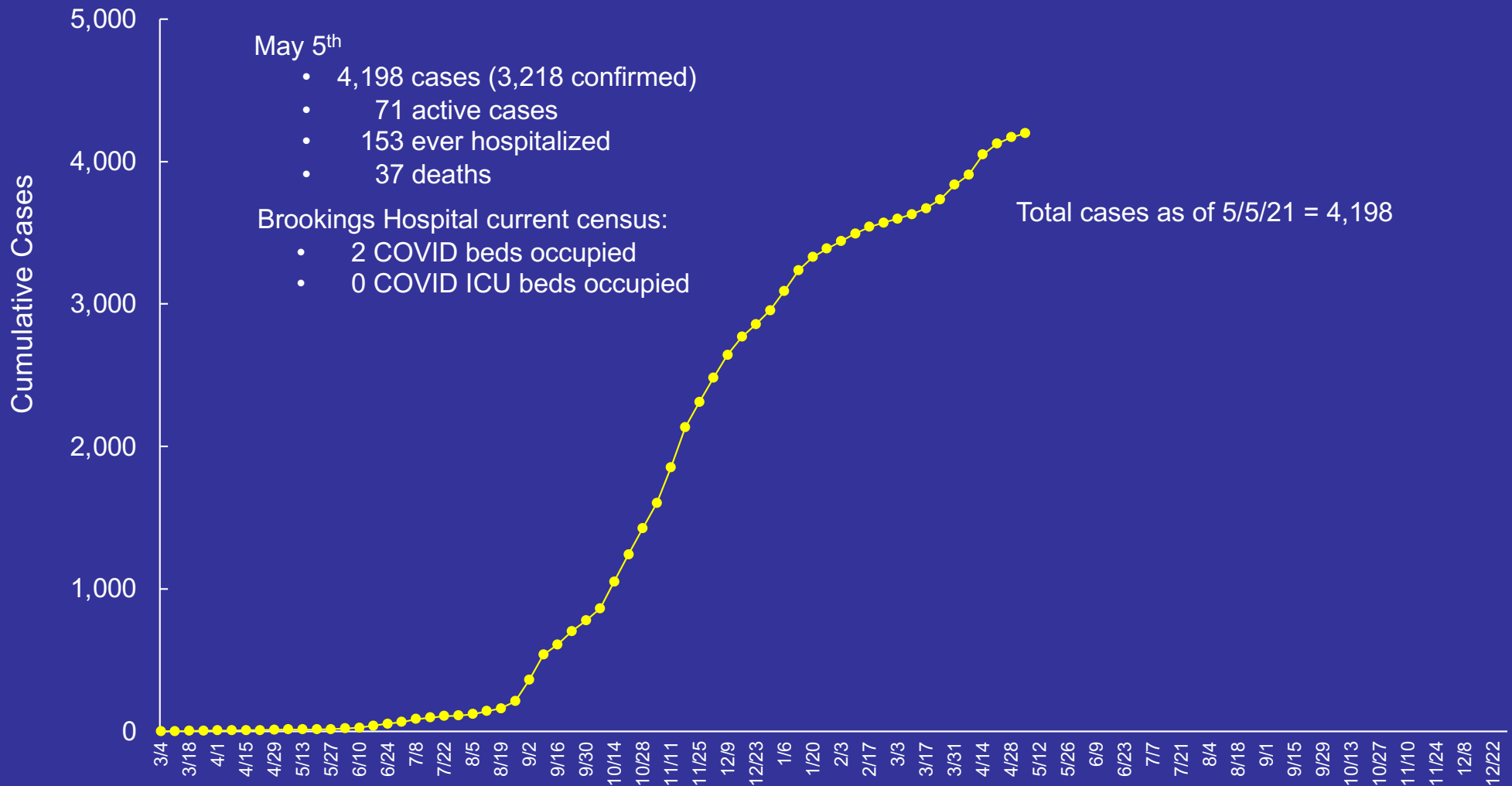
Oct 7: Probable cases added (antigen tests); 426 probable cases diagnosed prior to 10/7 not included in this graph.

**COVID-19 Situation**

**Brookings County**

# Brookings COVID-19 Situation

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

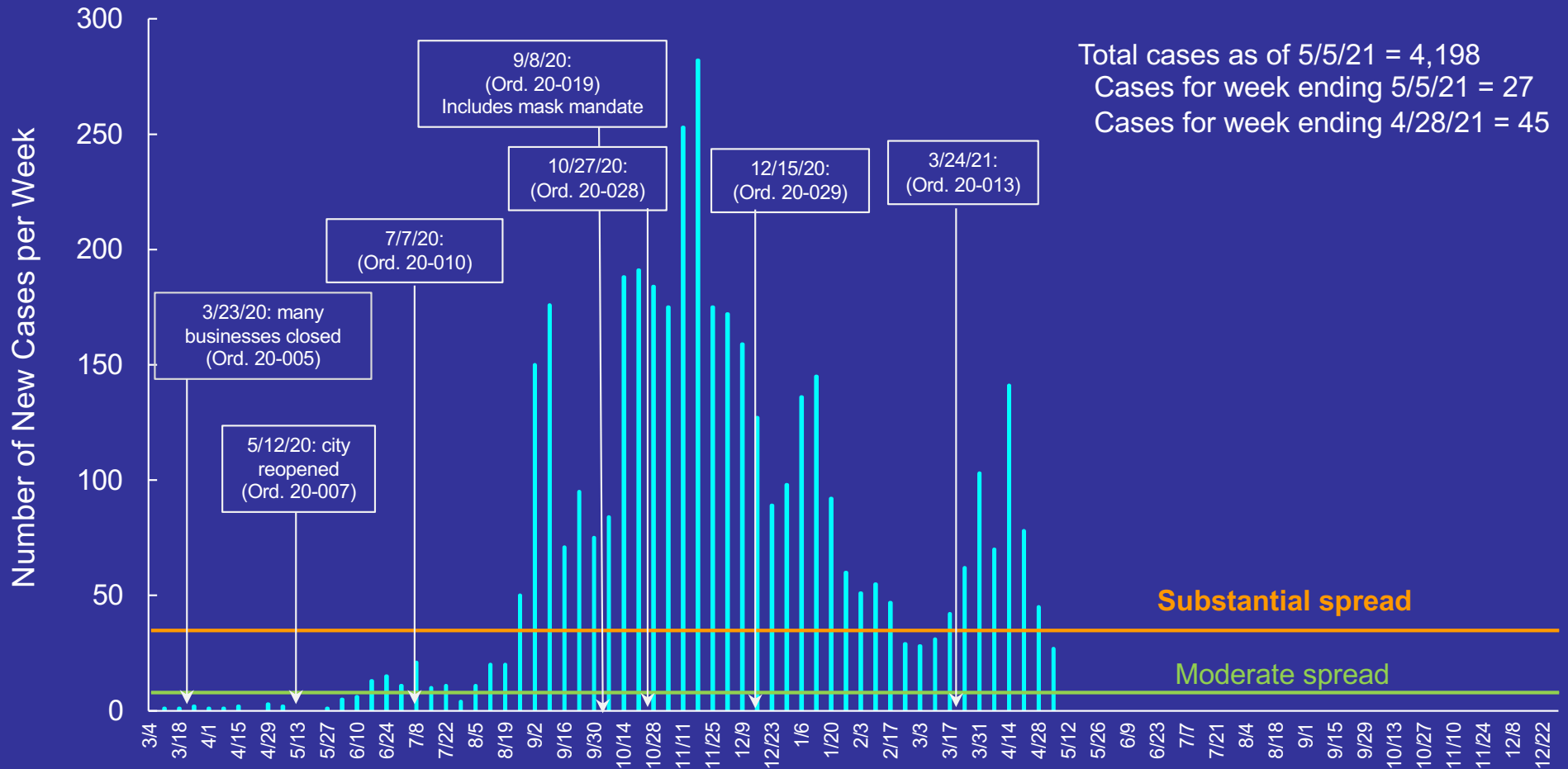


State residents only. Includes confirmed cases by PCR & probable cases by antigen testing.

# Brookings COVID-19 Situation

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

Current Level of Community Spread<sup>^</sup>: **substantial**



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

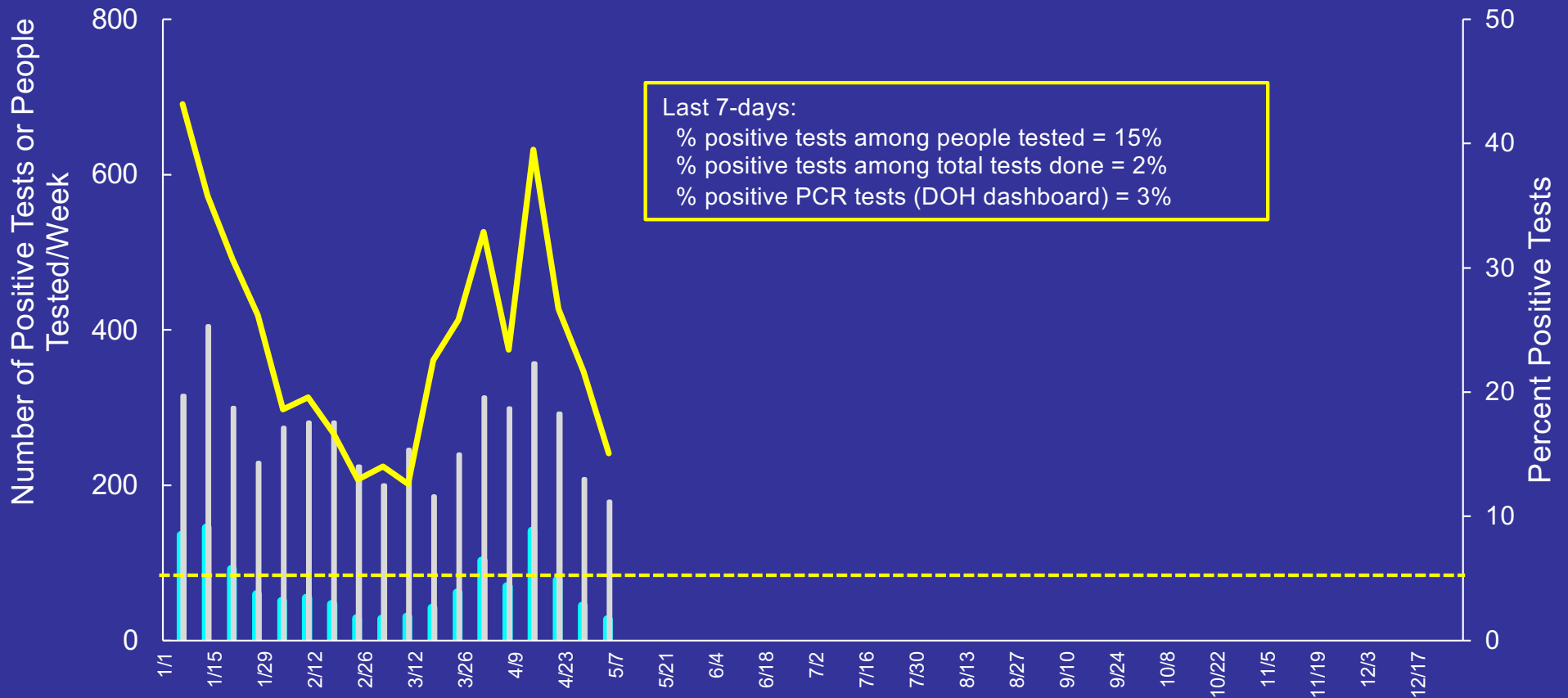
Moderate spread = 10-100 cases per 100,000 (4-33 cases/week); Minimal spread = <10 cases/100,000 (<4 cases/week)

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

# Brookings COVID-19 Situation

## 2021 Weekly Percentage of Positive Tests (PCR + Antigen)

■ Number Positive cases/week   ■ Weekly total of people tested   — 7-day average of % positive tests<sup>^</sup>

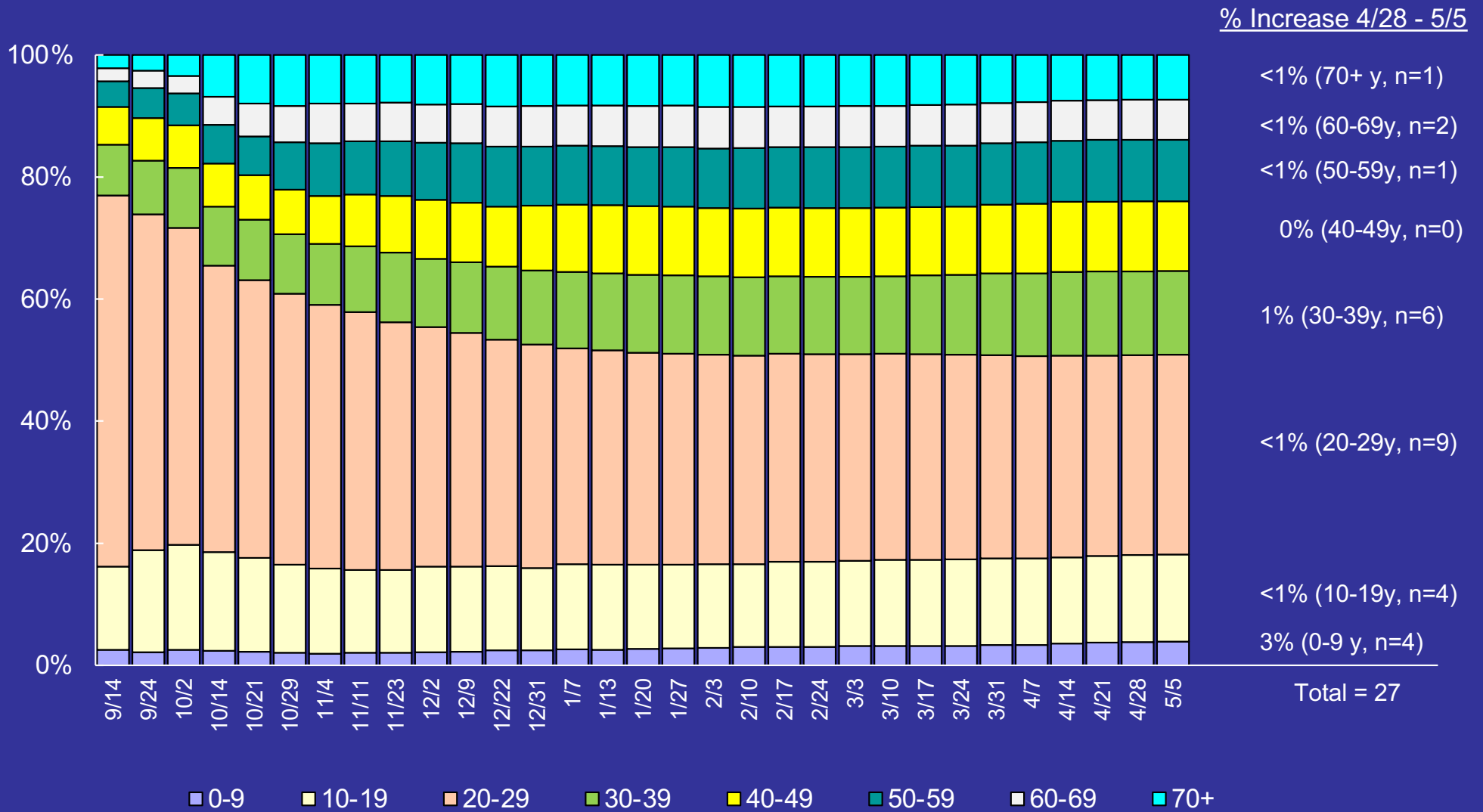


<sup>^</sup> Calculated as sum of 7-days of previous positive cases/sum of 7-days of total tests completed\*100. Duplicate tests on same individual not included. Used total cases and total persons tested on DOH website (includes sentinel & surveillance samples).

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

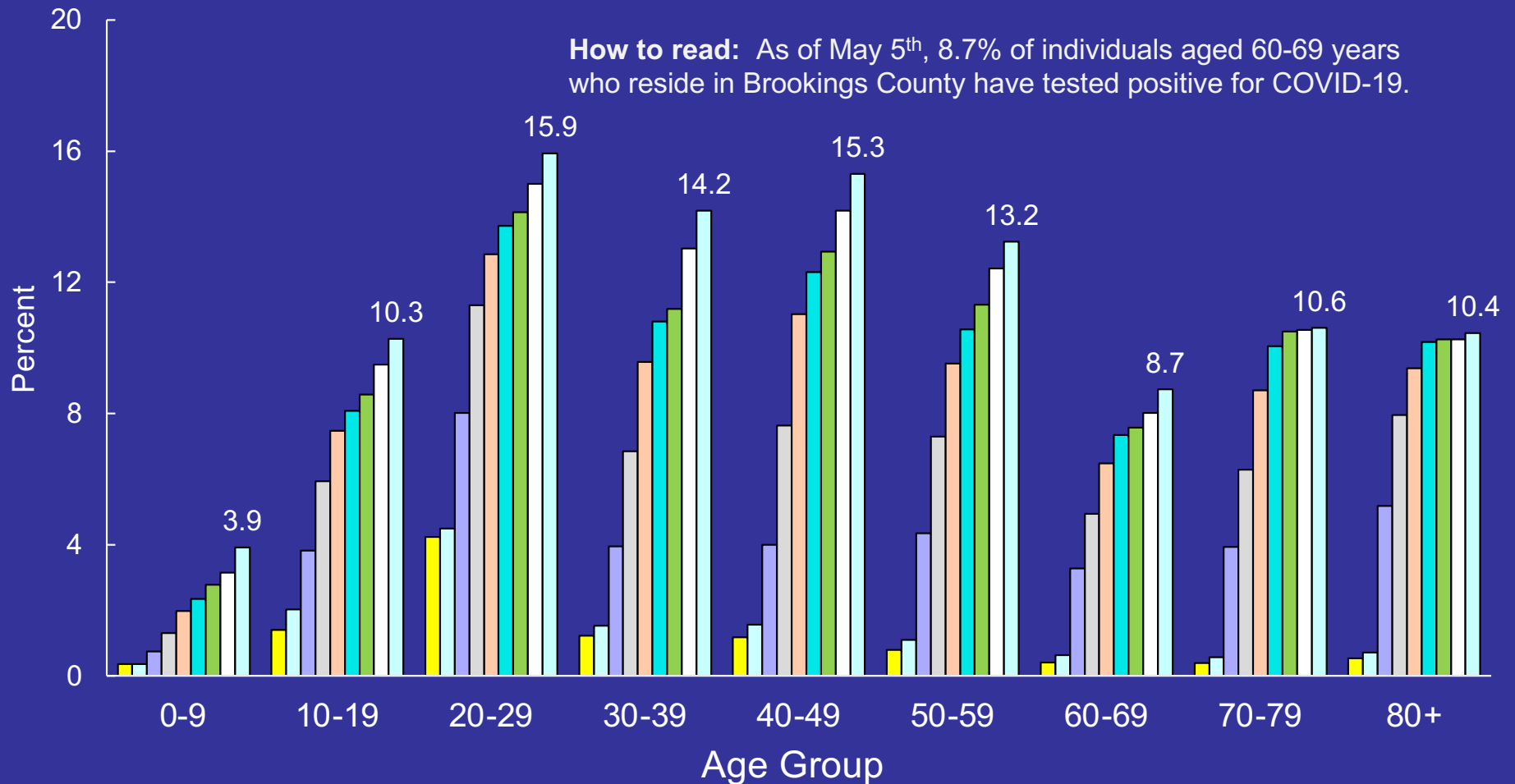




# Brookings COVID-19 Situation

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

■ 14-Sep 
 ■ 2-Oct 
 ■ 4-Nov 
 ■ 2-Dec 
 ■ 7-Jan 
 ■ 3-Feb 
 ■ 3-Mar 
 ■ 7-Apr 
 ■ 5-May

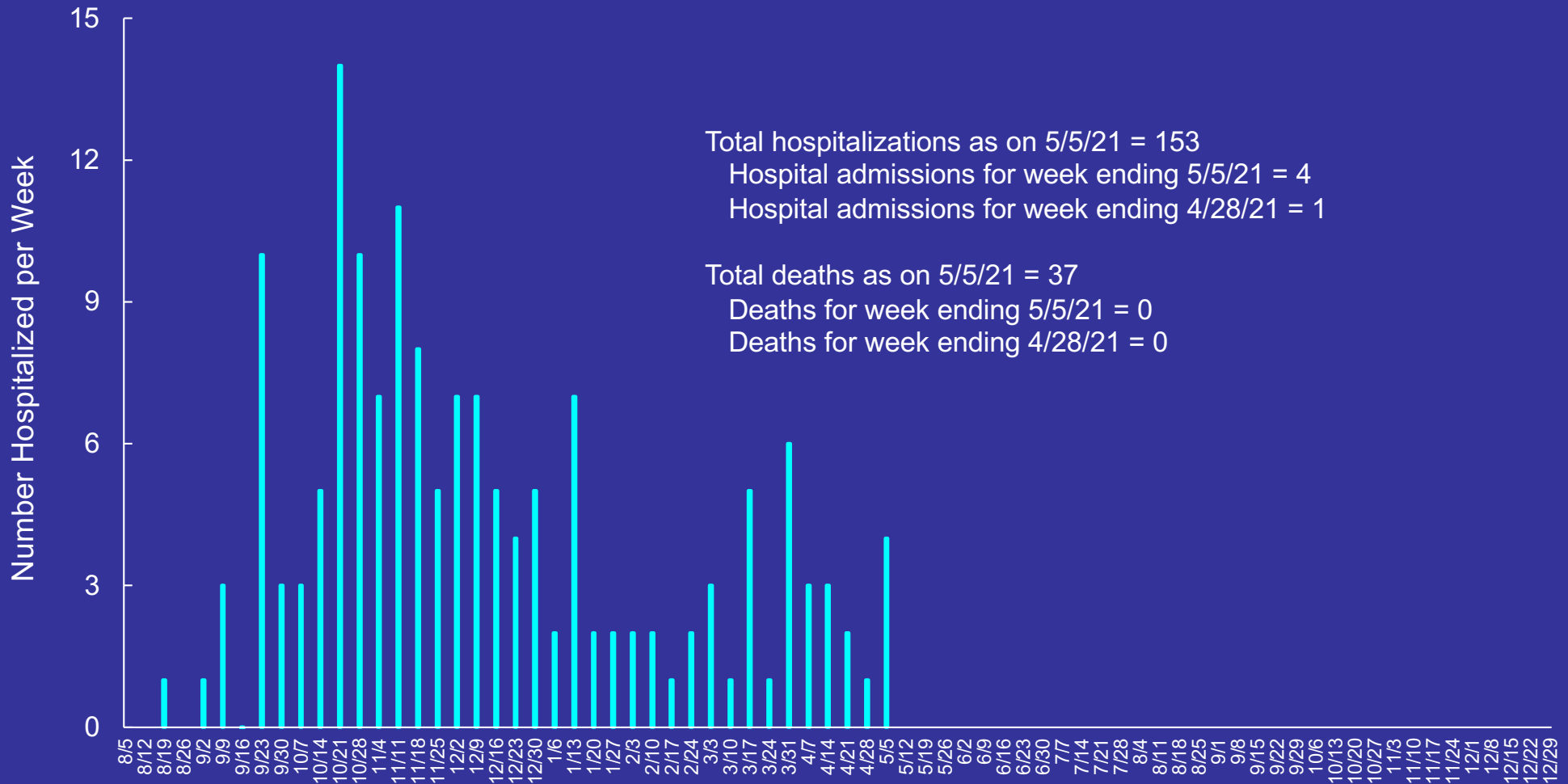


Overall, 12.0% of Brookings County residents have tested positive as of May 5<sup>th</sup>.  
 Case data as close to the first of the month as possible was used. Population estimates from 2019 Census estimates.  
 Updated monthly.

# Brookings COVID-19 Situation

## 2020-2021 Number of New Hospitalizations per Week

Hospitalization data after 4/26/21 are incomplete



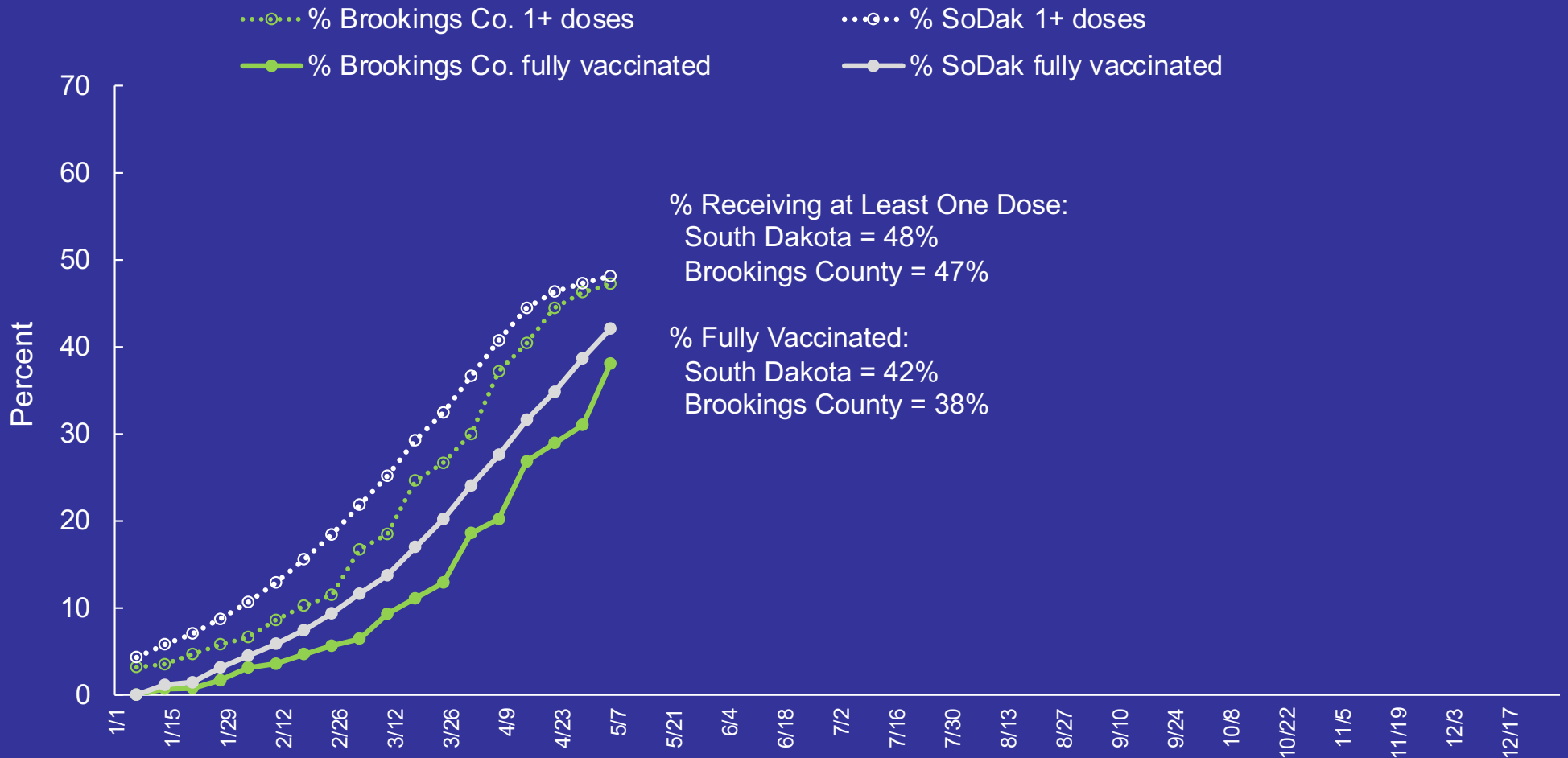
Total hospitalizations as on 5/5/21 = 153  
 Hospital admissions for week ending 5/5/21 = 4  
 Hospital admissions for week ending 4/28/21 = 1

Total deaths as on 5/5/21 = 37  
 Deaths for week ending 5/5/21 = 0  
 Deaths for week ending 4/28/21 = 0

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

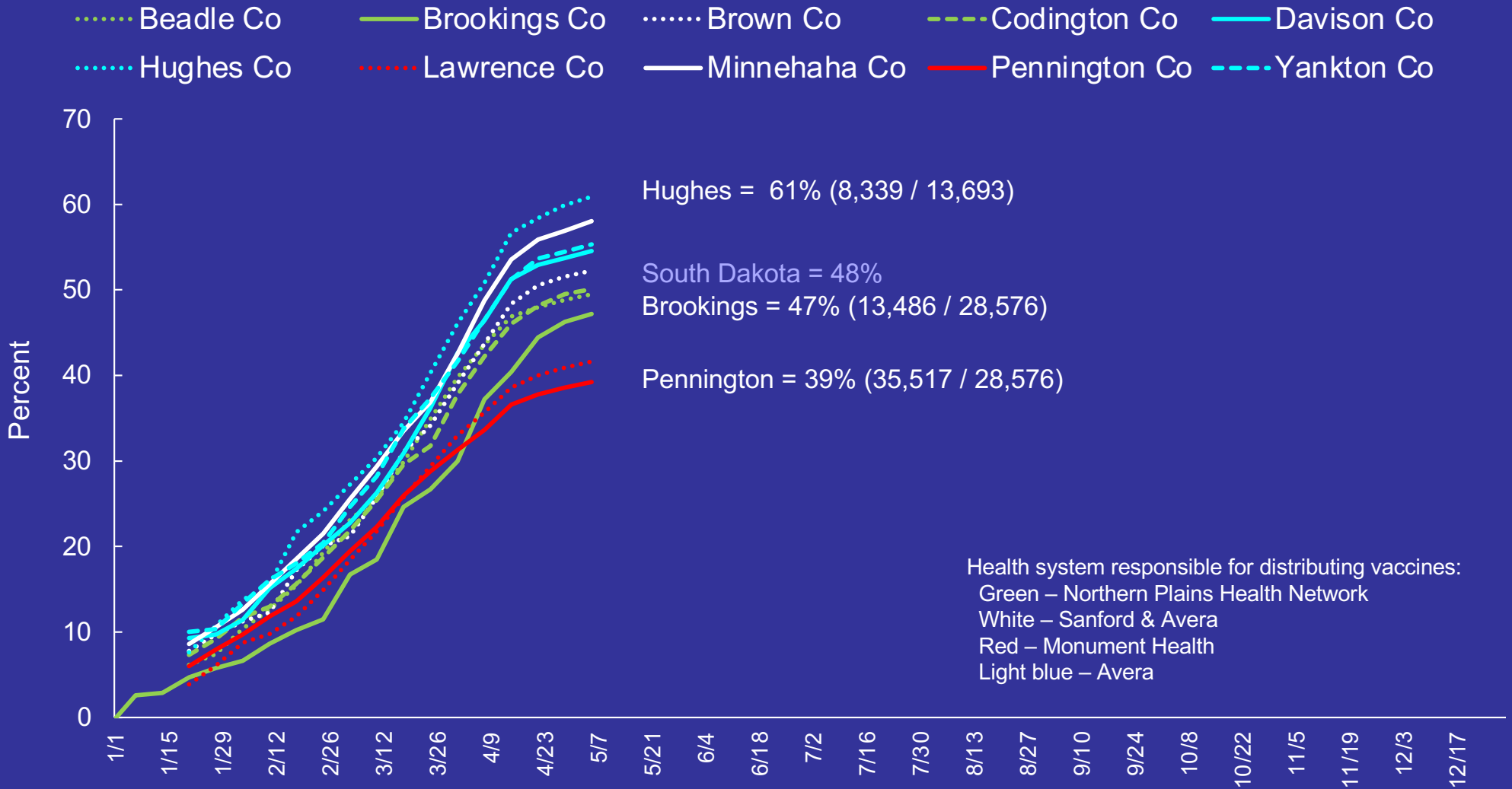
## 2021 Percent of Brookings County & South Dakota Population Aged 16+ Vaccinated by Week



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

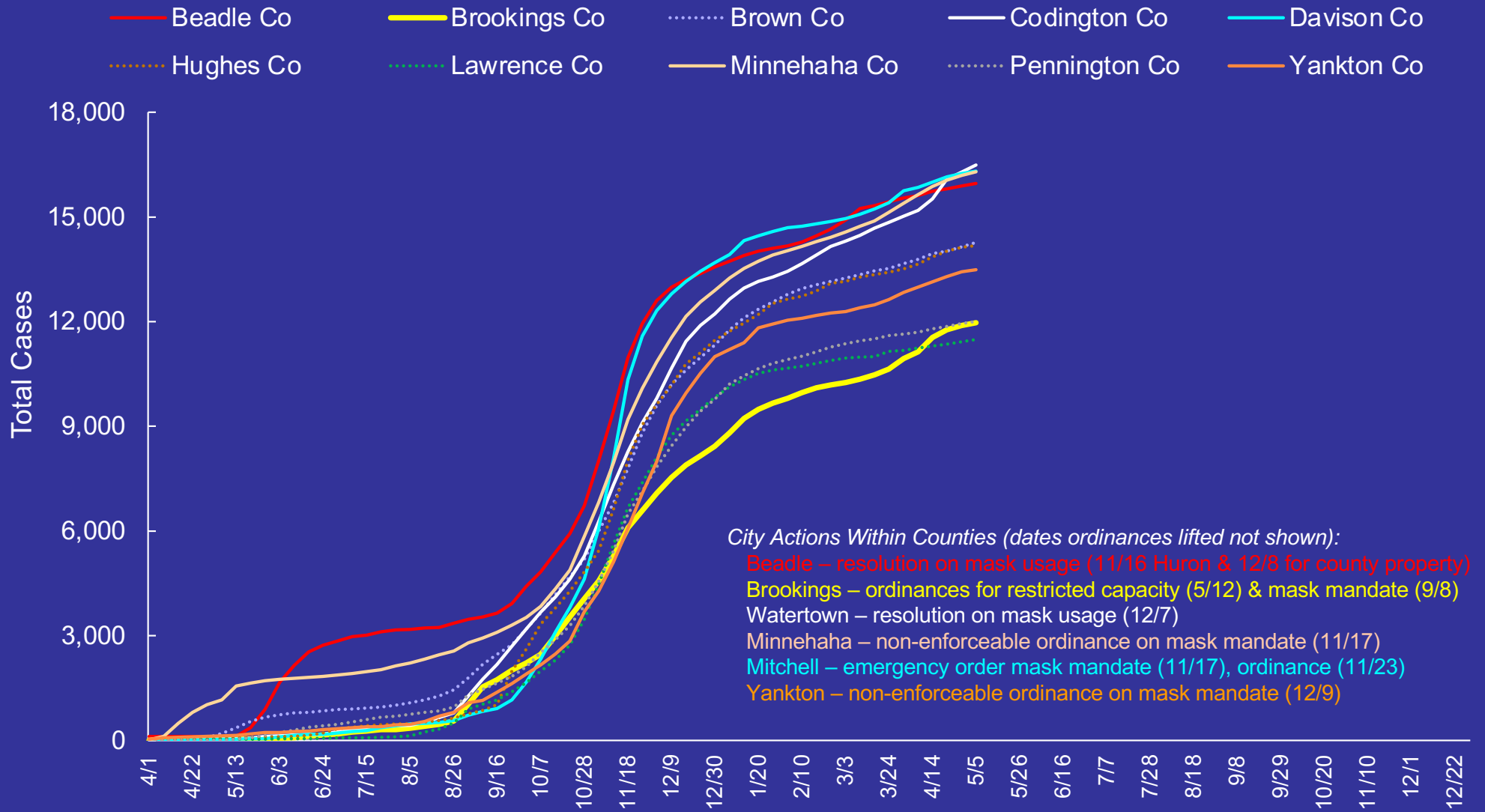
2021 Percent of Population Aged 16+ Years Receiving at Least One Vaccine<sup>^</sup>



<sup>^</sup> Based on 2019 Census population estimates for residents aged 16+ years. Does not include vaccinations via IHS and VA.

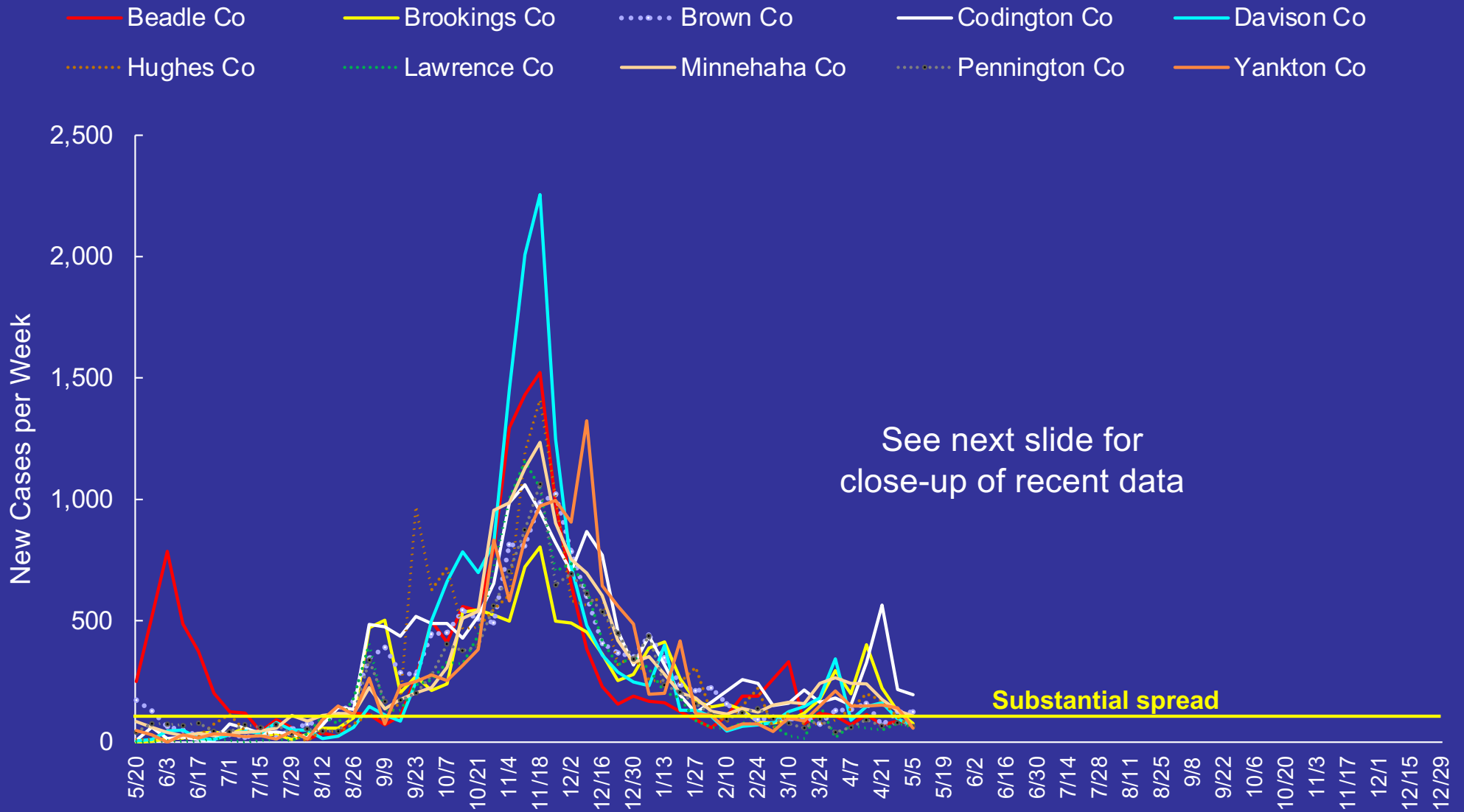
# Counties with Top 10 Most Populous Cities

## Cumulative Cases per 100,000 Population by Week



# Counties with Top 10 Most Populous Cities

## New Cases per Week per 100,000 Population

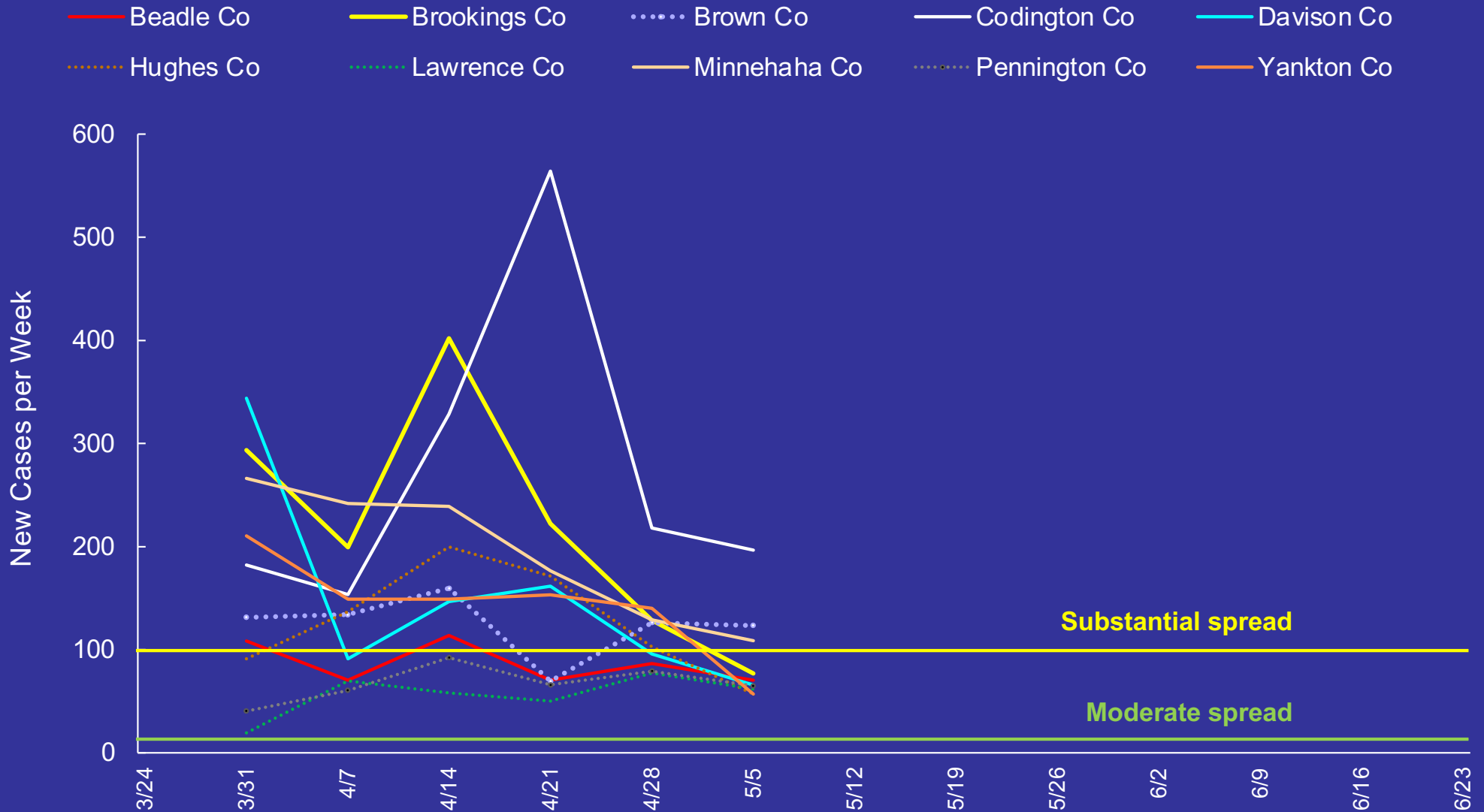


Spread based on new cases/week: substantial = 100+/100K population. 2019 Census county population estimates used.

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

# Counties with Top 10 Most Populous Cities

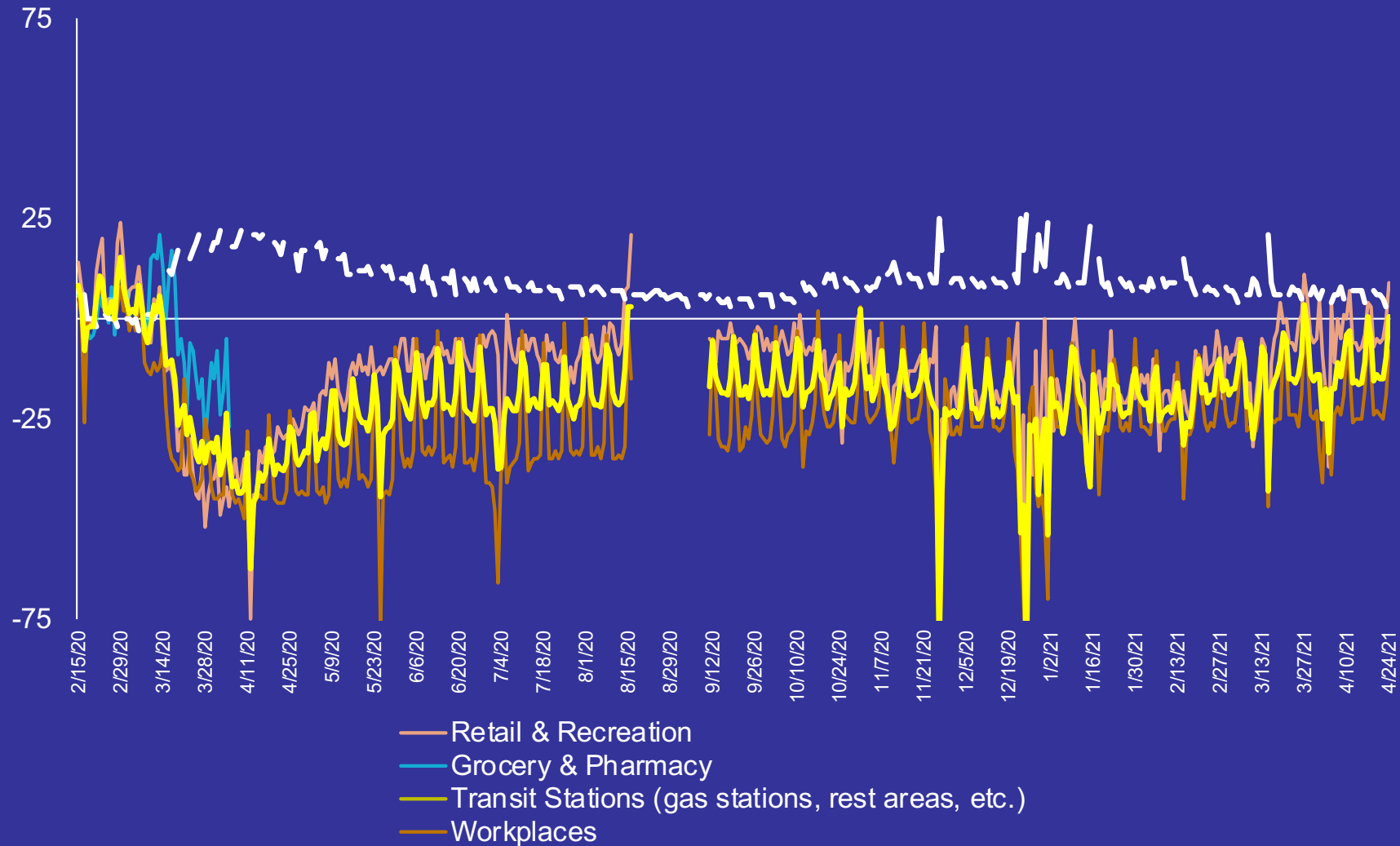
## New Cases per Week per 100,000 Population



Spread based on new cases/week: substantial = 100+/100K population.  
 Moderate spread = 10-100 cases per 100,000; Minimal spread = <10 cases/100,000.  
 2019 Census county population estimates used.

# 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/>

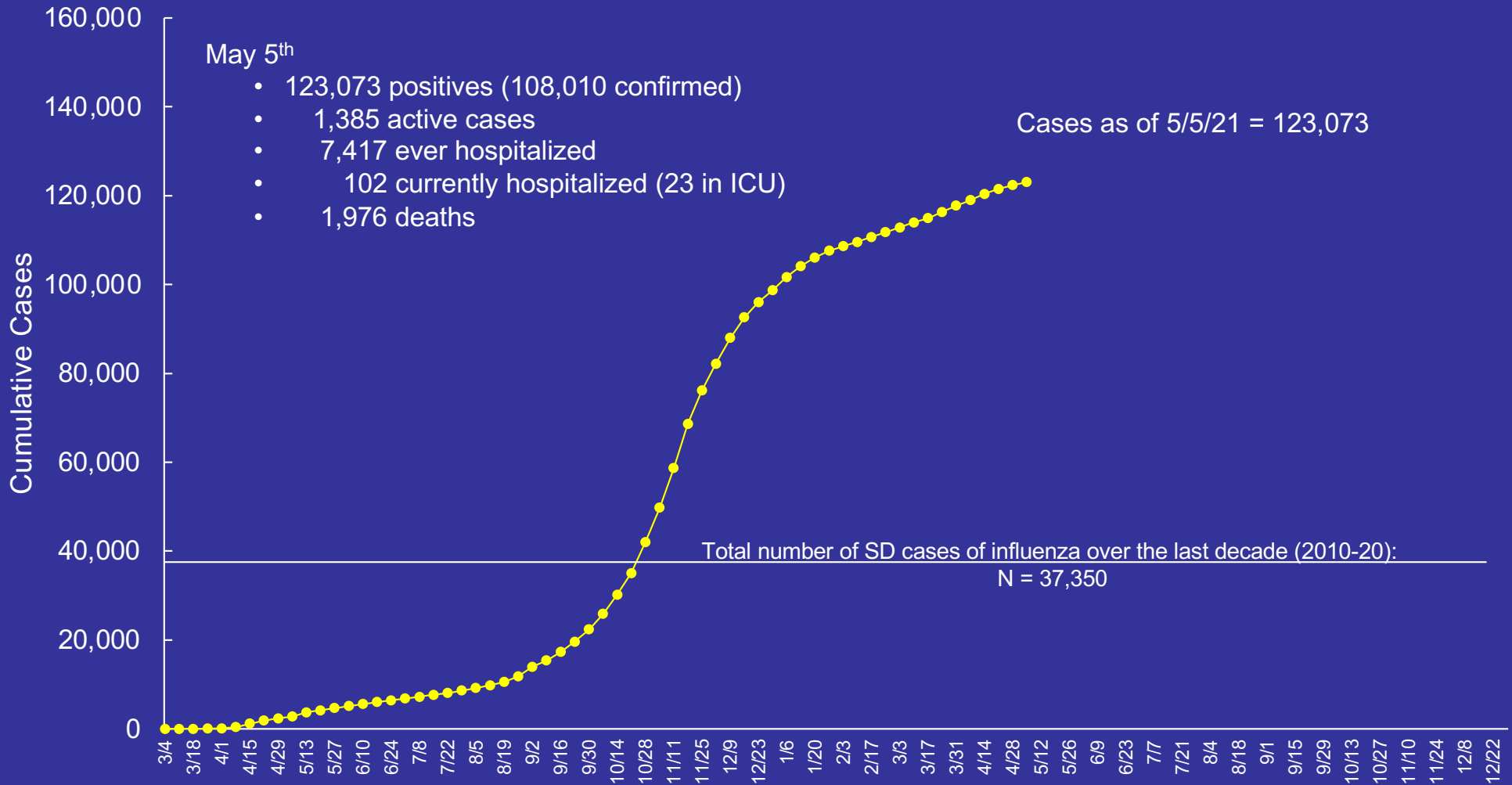


# **COVID-19 Situation**

## **South Dakota**

# South Dakota COVID-19 Situation

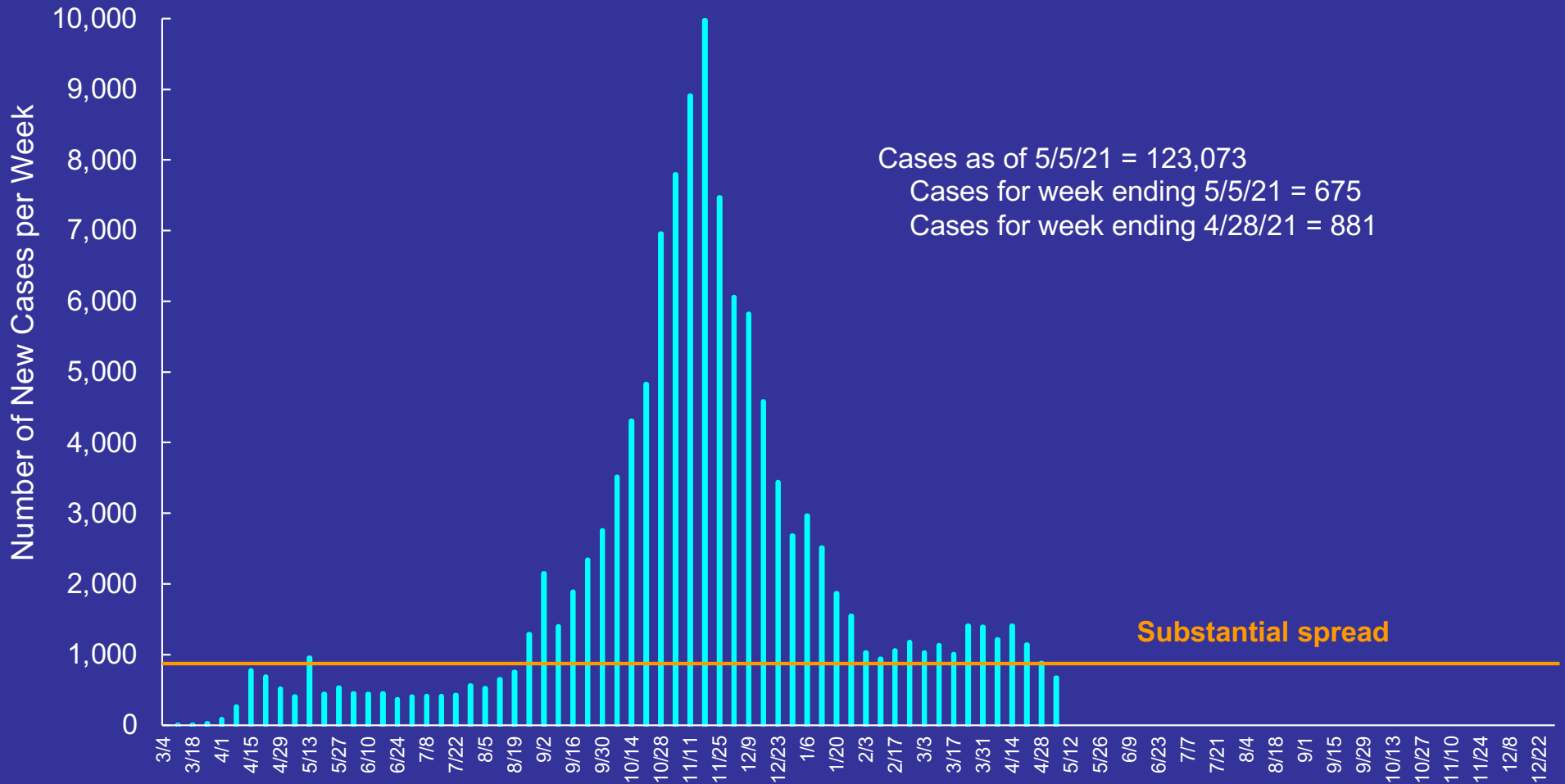
## 2020-21 Cumulative Number of Confirmed & Probable Cases by Week



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

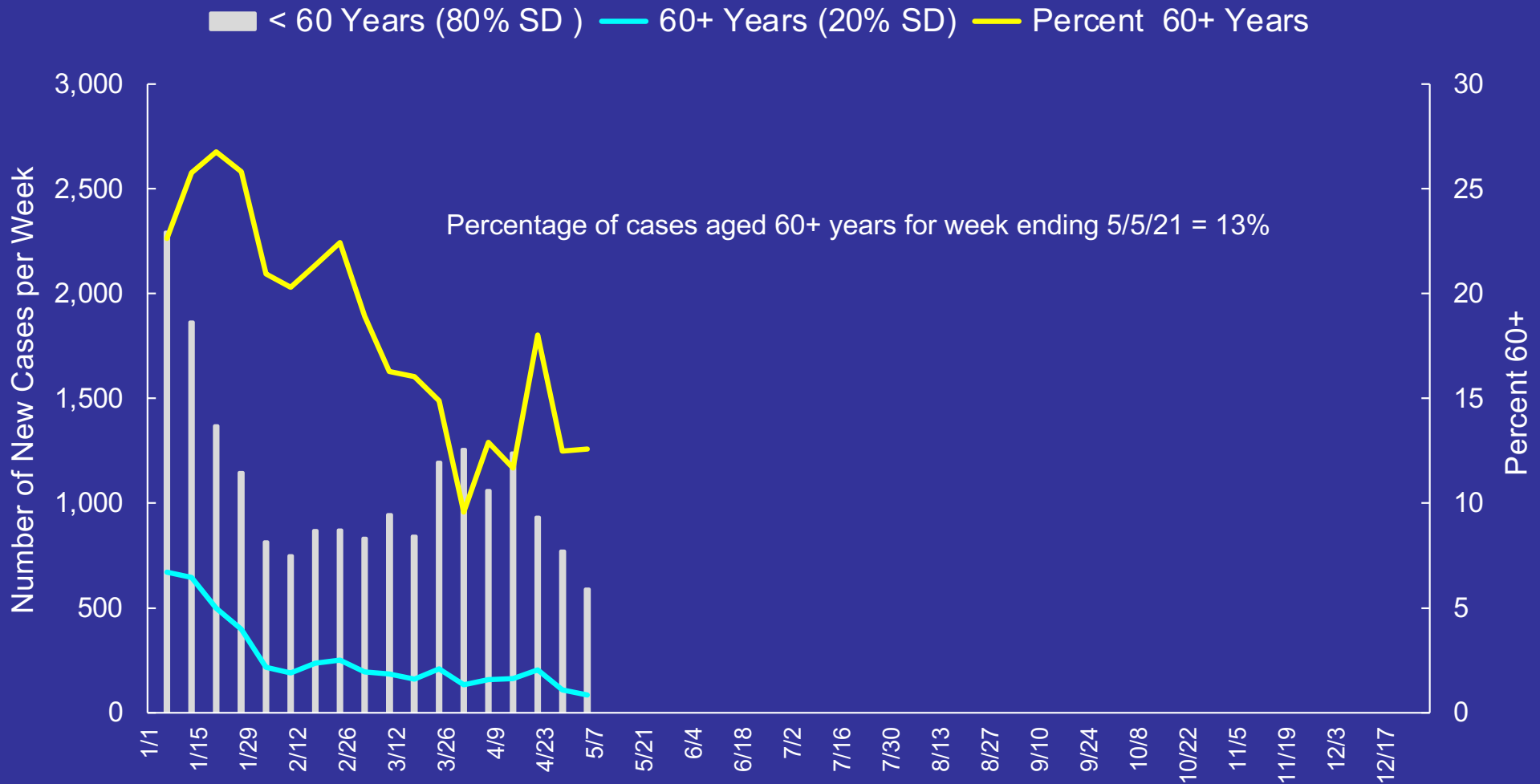


Substantial spread = 100+ new cases per week/100,000 population or 864+ cases/week for South Dakota.  
Moderate spread = 10-100 cases per 100,000; Minimal spread = <10 cases/100,000.

# South Dakota COVID-19 Situation

## Age Distribution

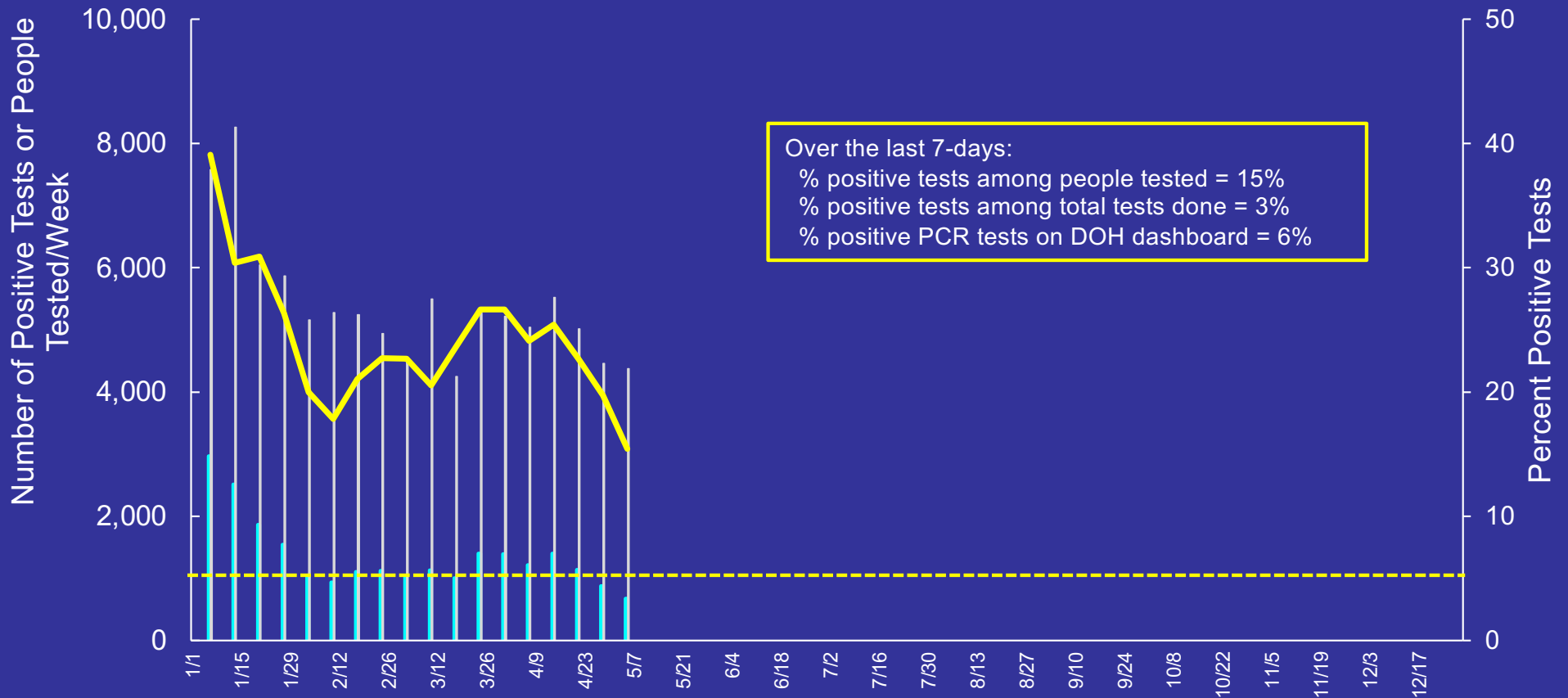
2021 Number of Confirmed & Probable Cases by Age per Week



# South Dakota COVID-19 Situation

## 2021 Percentage of Positive Tests (PCR + Antigen)

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



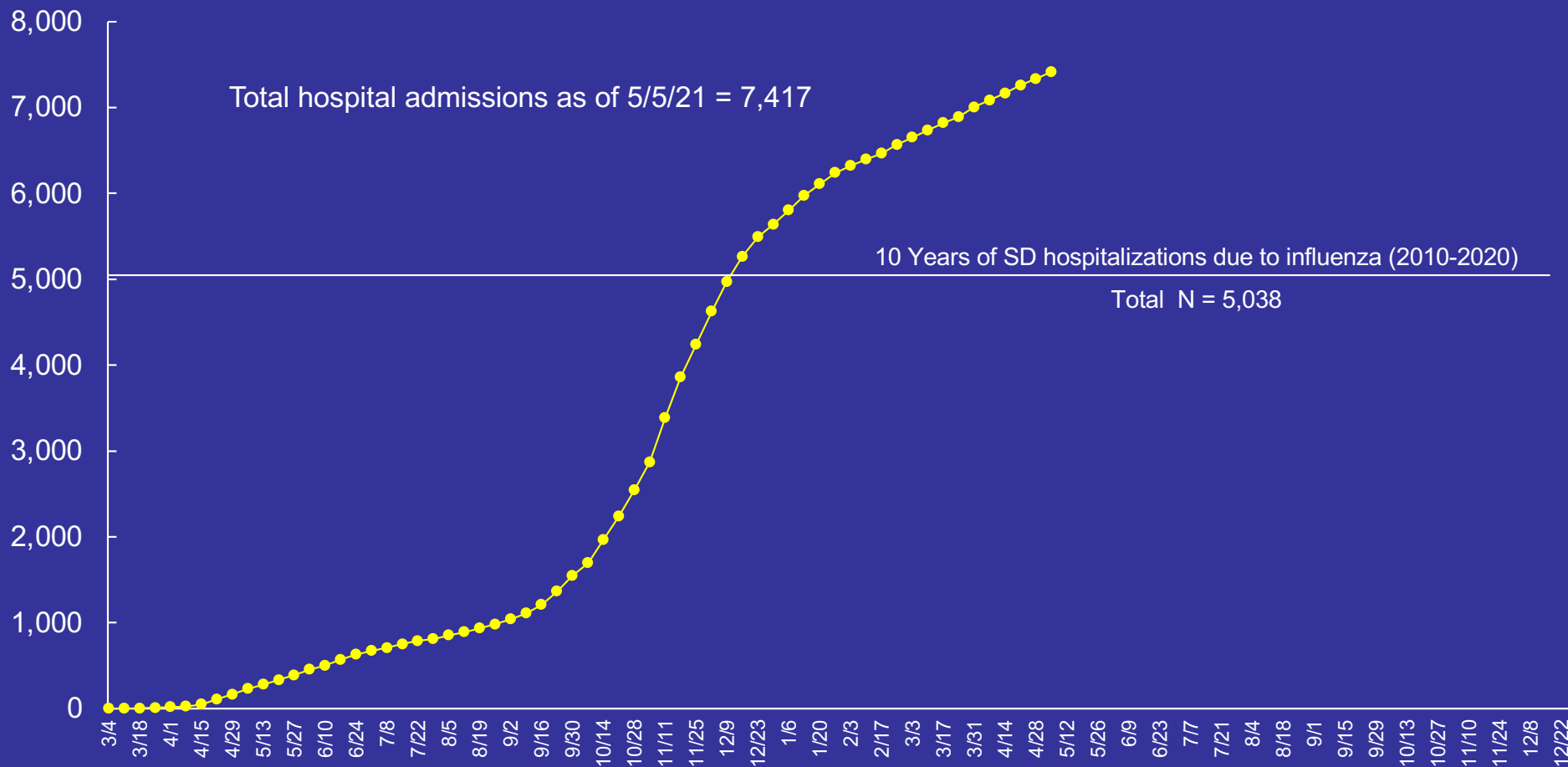
<sup>^</sup> Calculated as sum of 7-days of previous positive cases/sum of 7-days of total tests completed\*100. Duplicate tests on same individual not included. Used total cases and total persons tested on DOH website (includes sentinel & surveillance samples).

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.

# South Dakota COVID-19 Situation

## 2021 Cumulative Number of Hospitalizations by Week

Hospitalization data after 4/26/21 are incomplete



Includes only state residents.

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

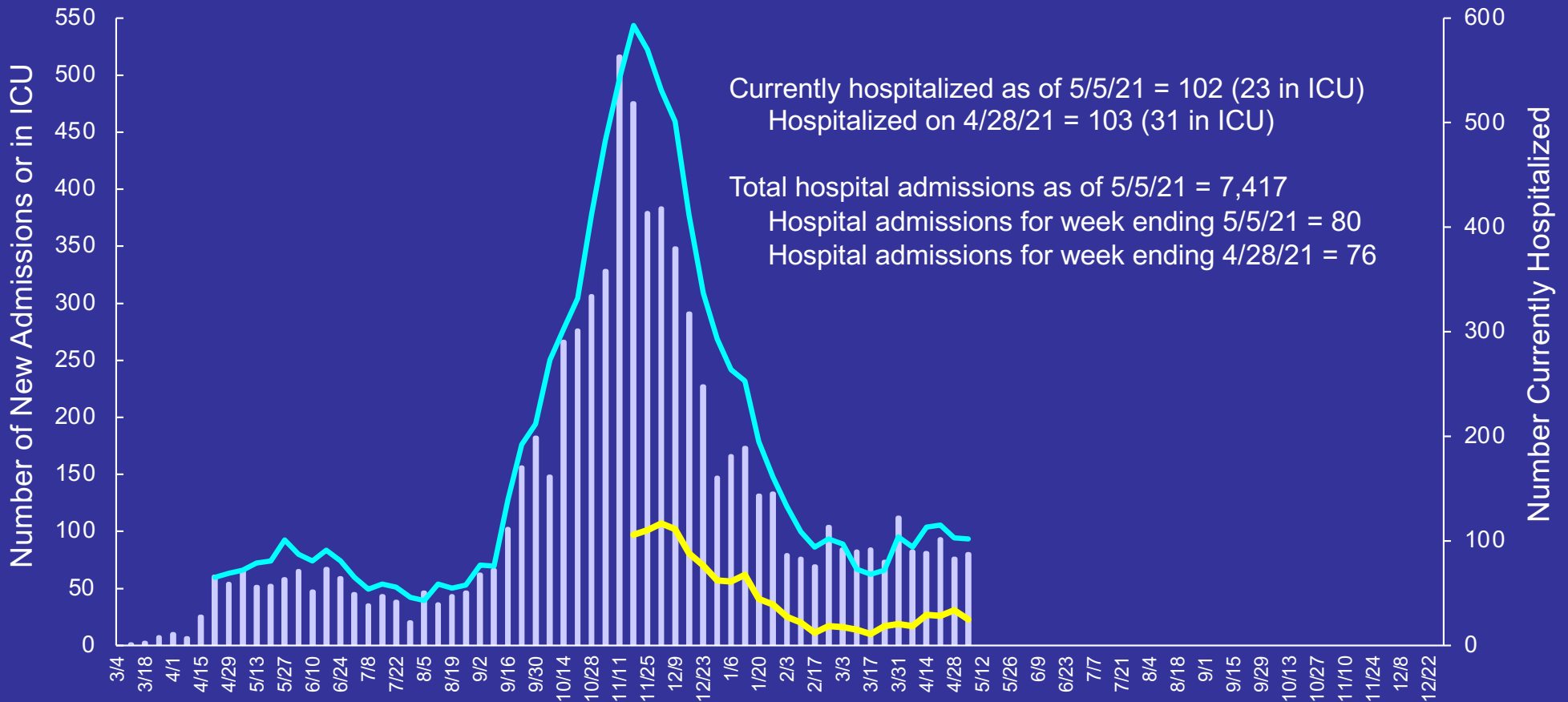
Influenza: <https://doh.sd.gov/diseases/infectious/flu/surveillance.aspx>

# South Dakota COVID-19 Situation

## 2020-2021 Weekly Hospitalization Data

New Admissions/week
  Number in ICU
  Currently Hospitalized in SD

Hospitalization data after 4/26/21 are incomplete



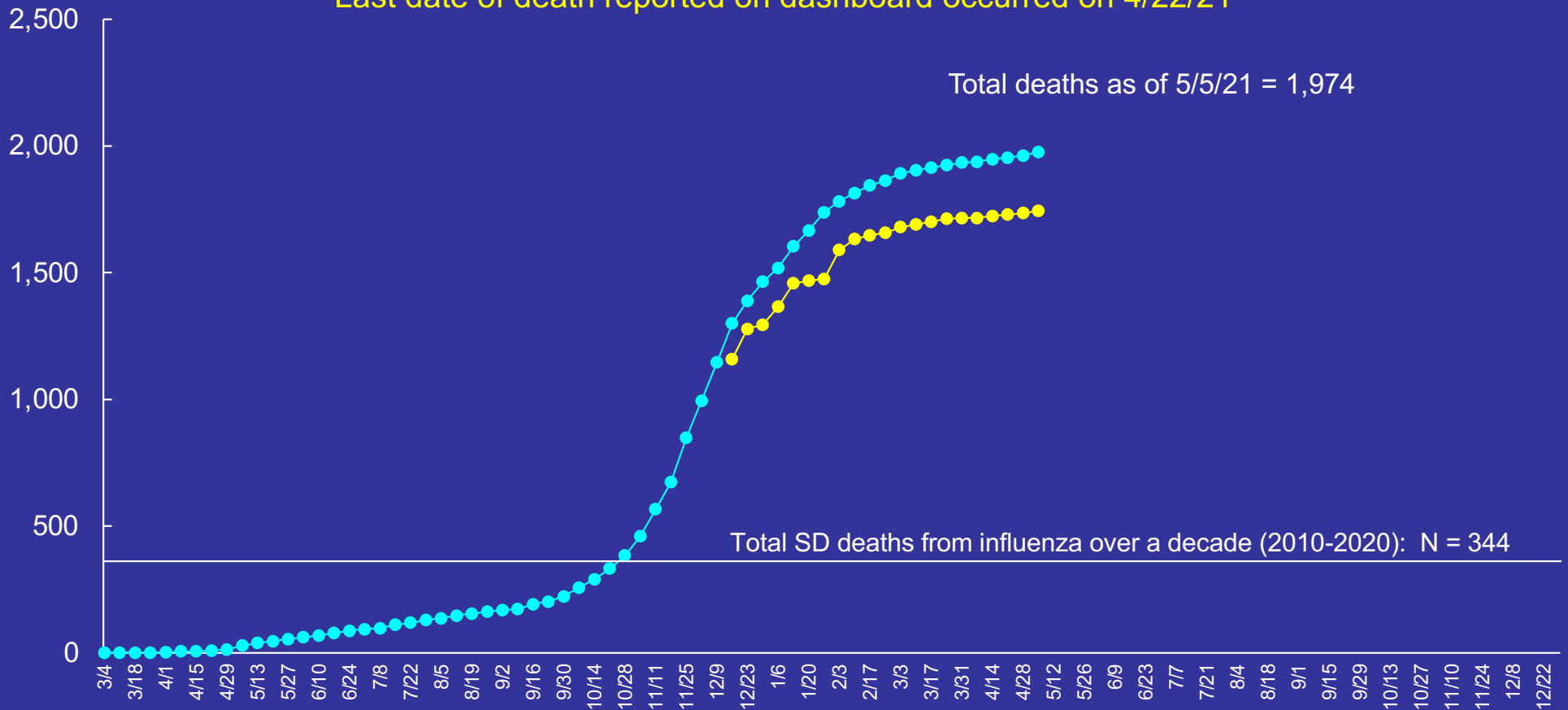
Currently hospitalized includes state and out-of-state residents and transfers in from other states, but not residents transferred out-of-state.  
 New admissions include only state residents; does not include patients on home health care.  
 Number in ICU and currently hospitalized recorded on Wednesdays.

# South Dakota COVID-19 Situation

## 2021 Cumulative Number of Deaths by Week

—●— Deaths among people with COVID      —●— Deaths caused by COVID

Last date of death reported on dashboard occurred on 4/22/21



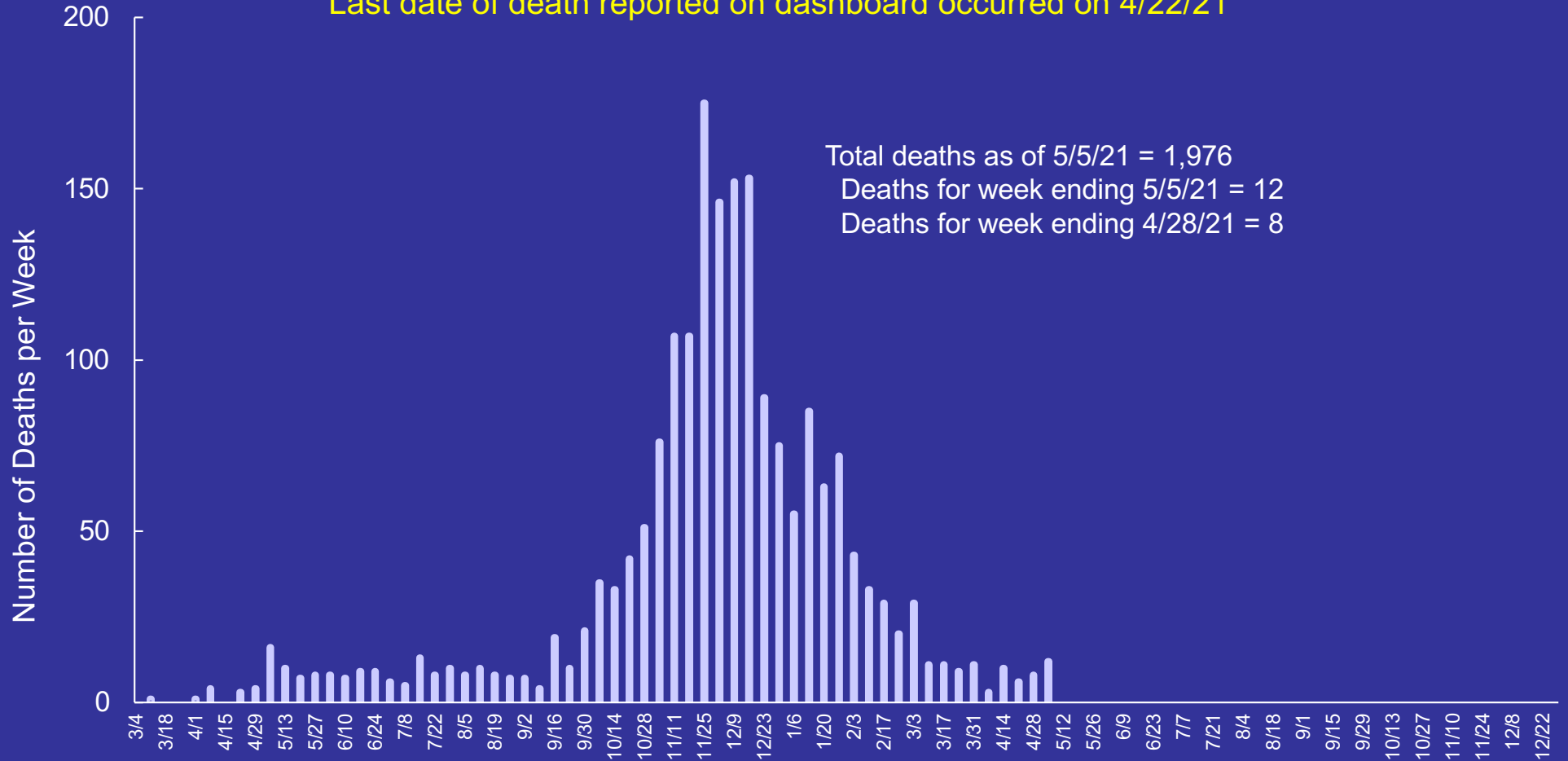
Dept of Health does not report deaths until a certified death record is filed. By law, a death record must be filed within 5 days of the date of death. Deaths caused by COVID based on death certificates where COVID is cause of death or contributing cause. Deaths among people with COVID include death 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

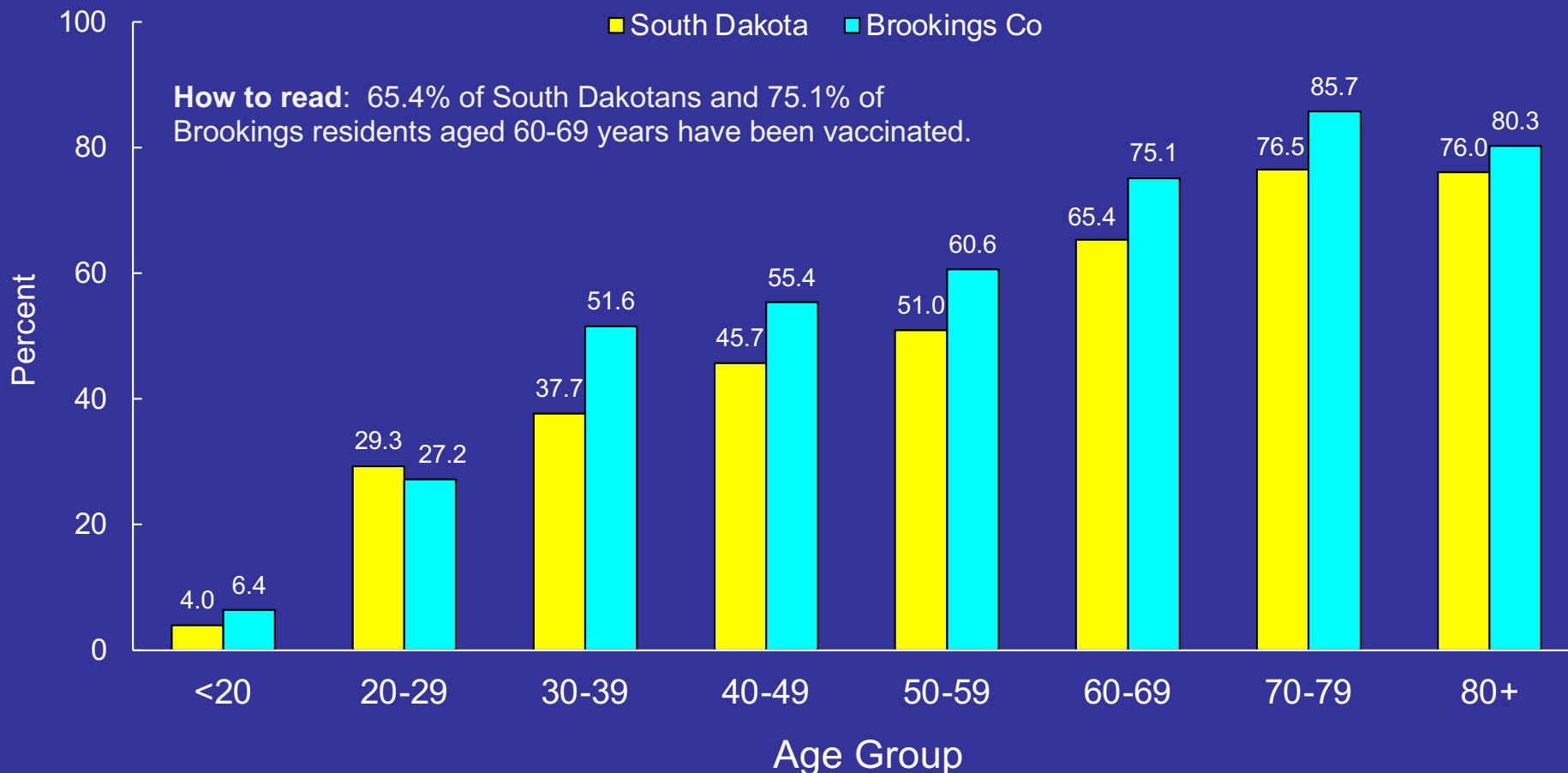
Last date of death reported on dashboard occurred on 4/22/21



Data are date death is posted to DOH dashboard.  
See DOH dashboard, death tab for detailed definitions.

# South Dakota COVID-19 Situation

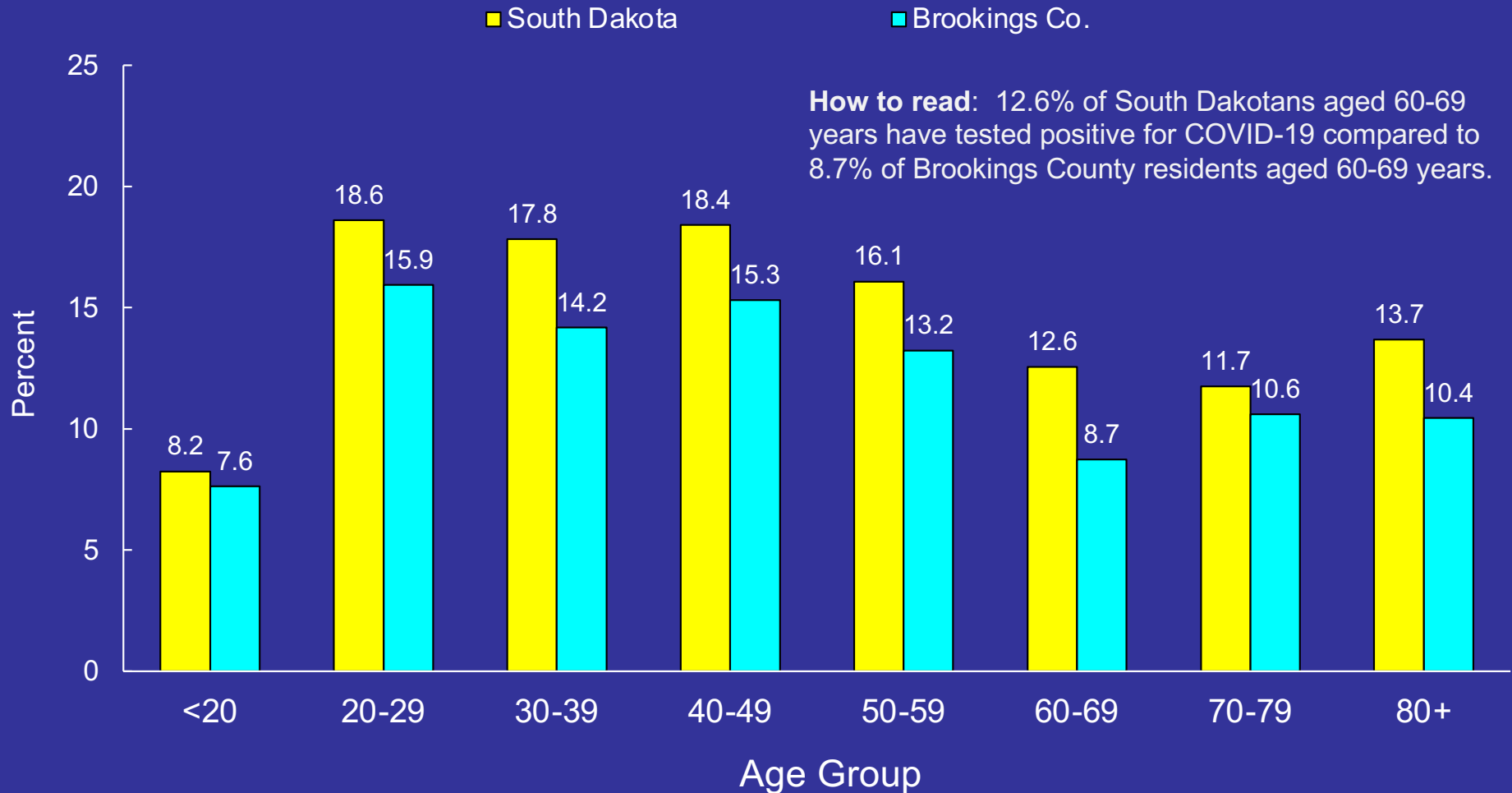
## Percent of Population Receiving at Least One Vaccine by Age as of May 5, 2021



Overall, 50% of South Dakotans and 52% of Brookings County residents aged 20+ years have been immunized. Does not include data from Veterans Affairs (VA) and Indian Health Services (IHS). 2019 US Census data used for denominators. 55% of state population aged 16 years and older has received at least one dose, including VA & IHS.

# South Dakota COVID-19 Situation

Percent of South Dakota & Brookings Population Ever Testing Positive by Age as of May 5, 2021

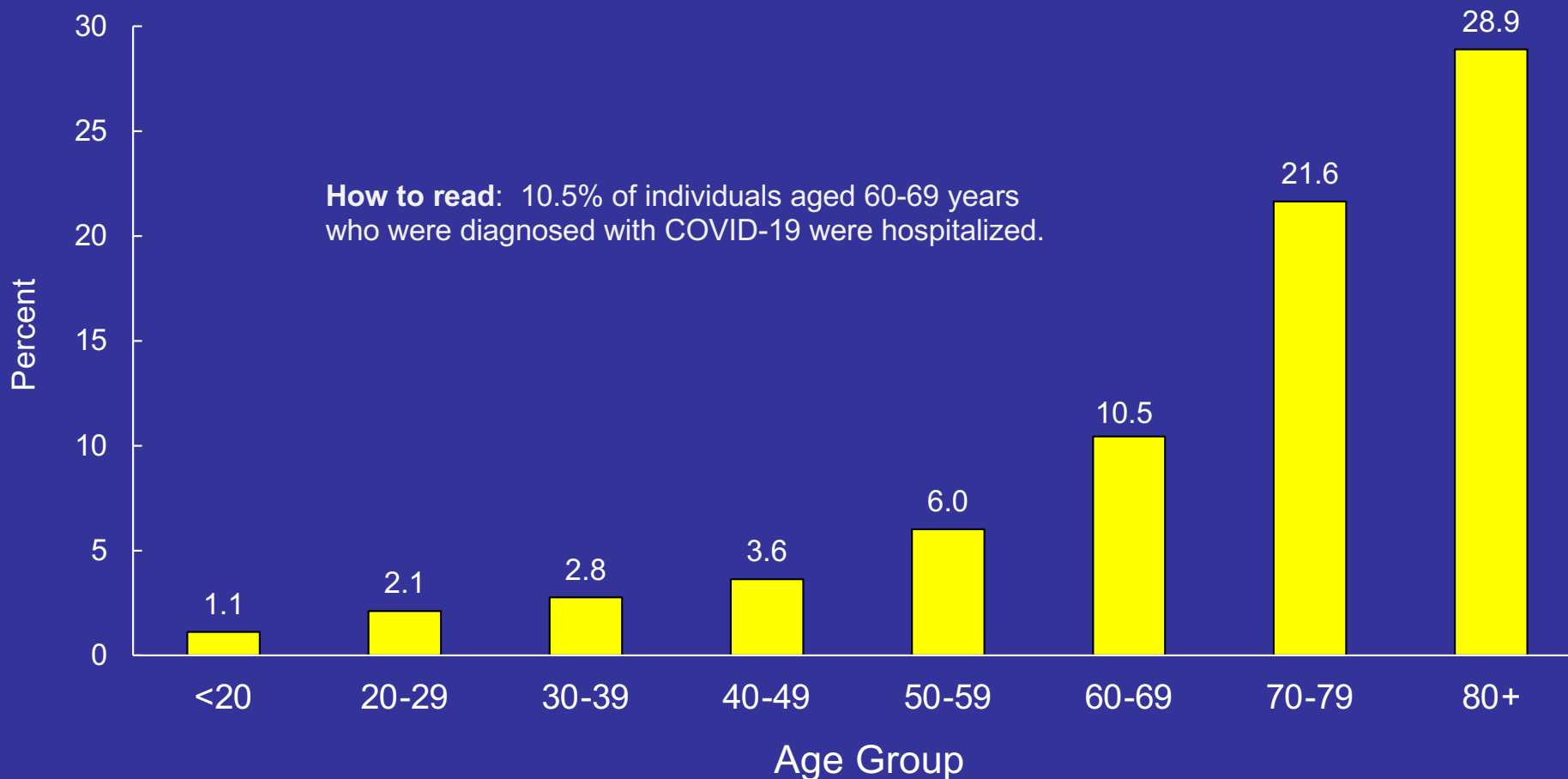


Overall, the percent of population testing positive is:  
13.9% for South Dakota  
12.0% for Brookings County

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

# South Dakota COVID-19 Situation

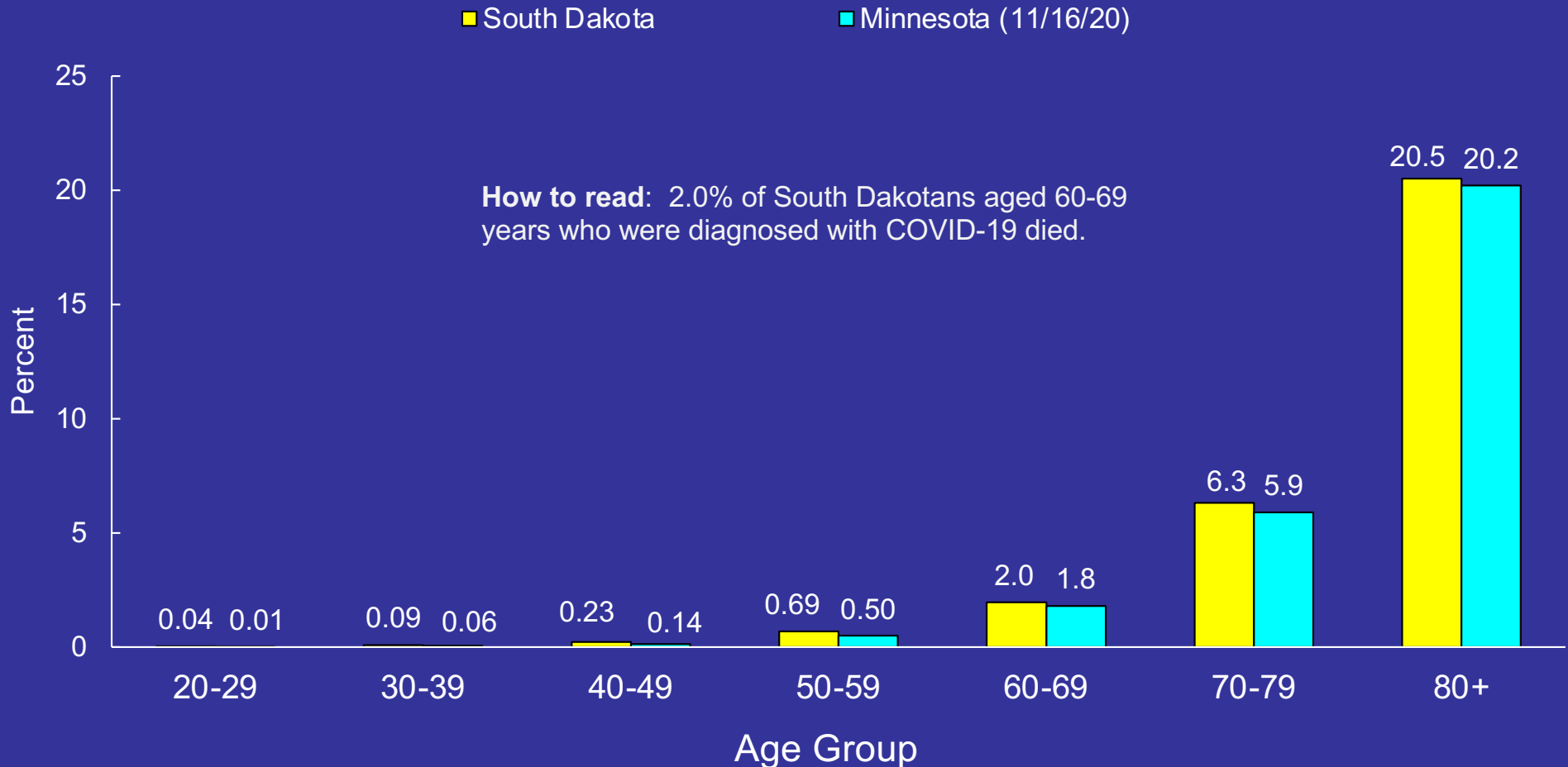
Percent of Cases Ever Hospitalized by Age  
as of May 5, 2021



Overall, 6.0% 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 as of May 5, 2021



Overall case fatality rate for South Dakota is 1.62%.

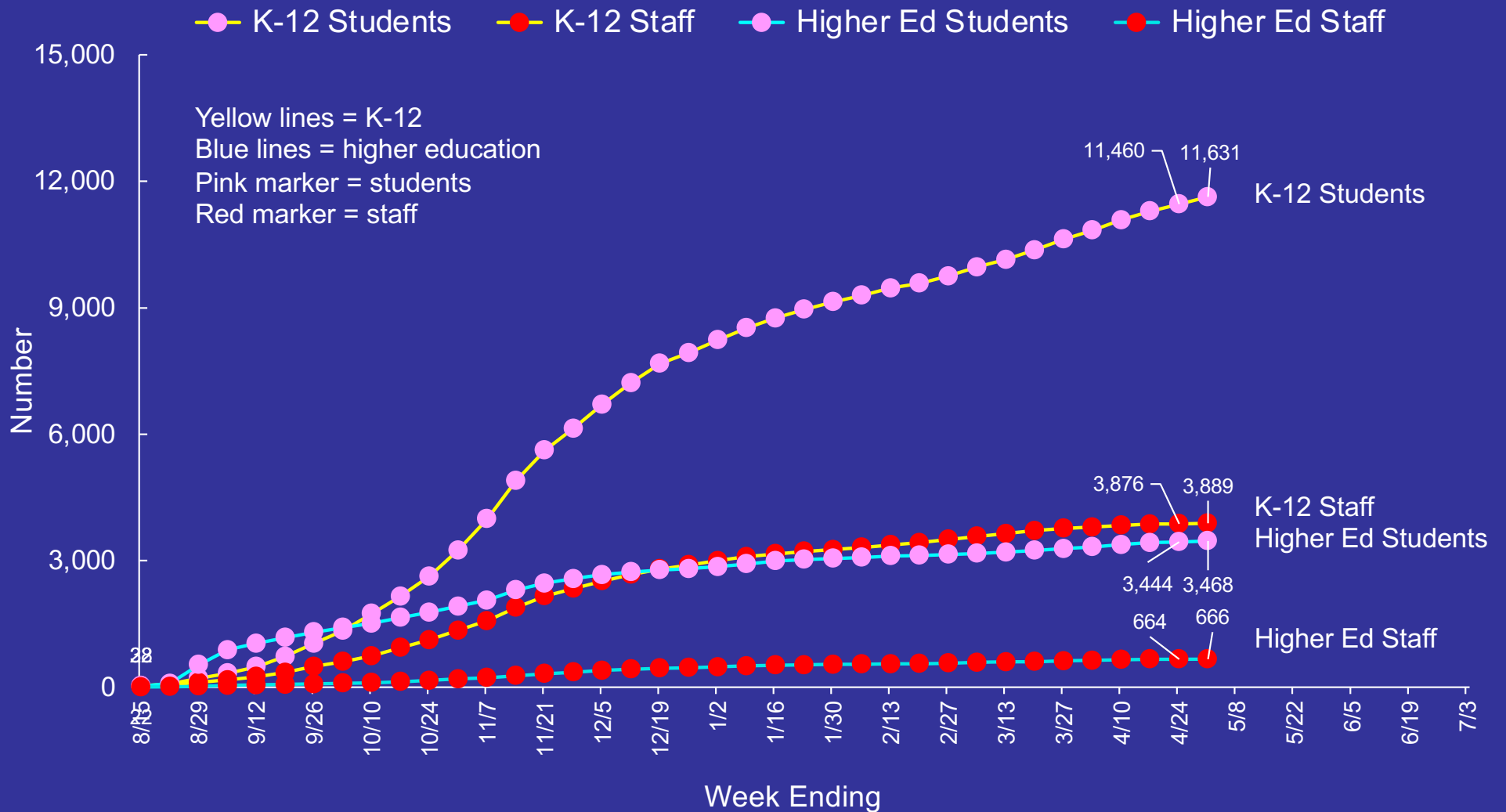
Case fatality rate calculated as COVID deaths / (COVID deaths + recovered) \* 100 (<https://doh.sd.gov/COVID/Dashboard.aspx>)

Minnesota data: CFR = (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

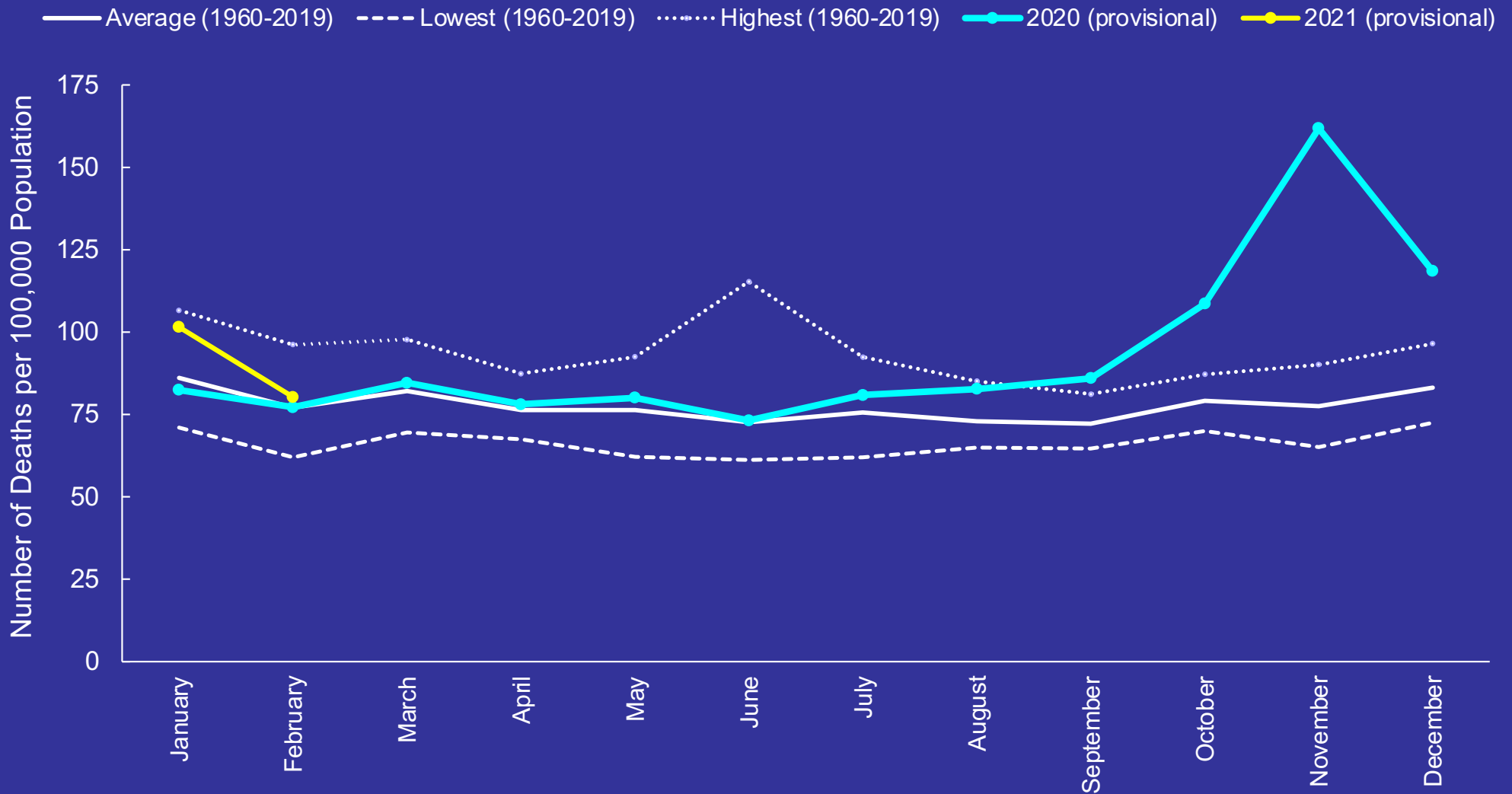


South Dakota population aged 5-17 years (2019 Census) = 155,934  
 Probable cases added retroactively on 2/22/21.

[https://doh.sd.gov/documents/COVID19/School-College\\_COVID\\_cases.pdf](https://doh.sd.gov/documents/COVID19/School-College_COVID_cases.pdf)

# South Dakota Deaths

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

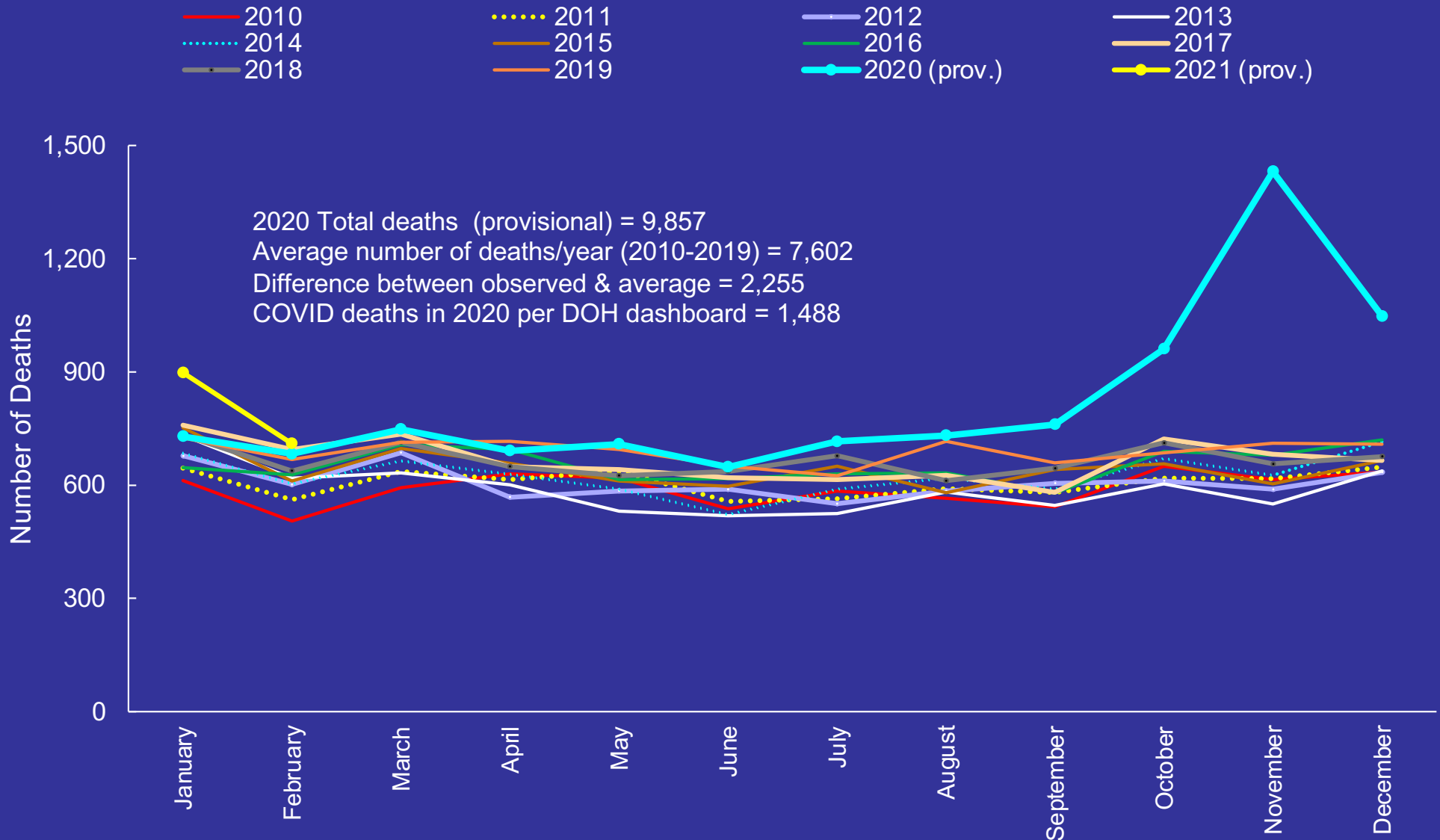


2020 & 2021 deaths are provisional.  
Data as of 4/11/21

<https://doh.sd.gov/statistics/>  
<https://doh.sd.gov/documents/statistics/Mortality-Report-2020-2021.pdf>

# South Dakota Deaths

## Number of Deaths by Year and Month



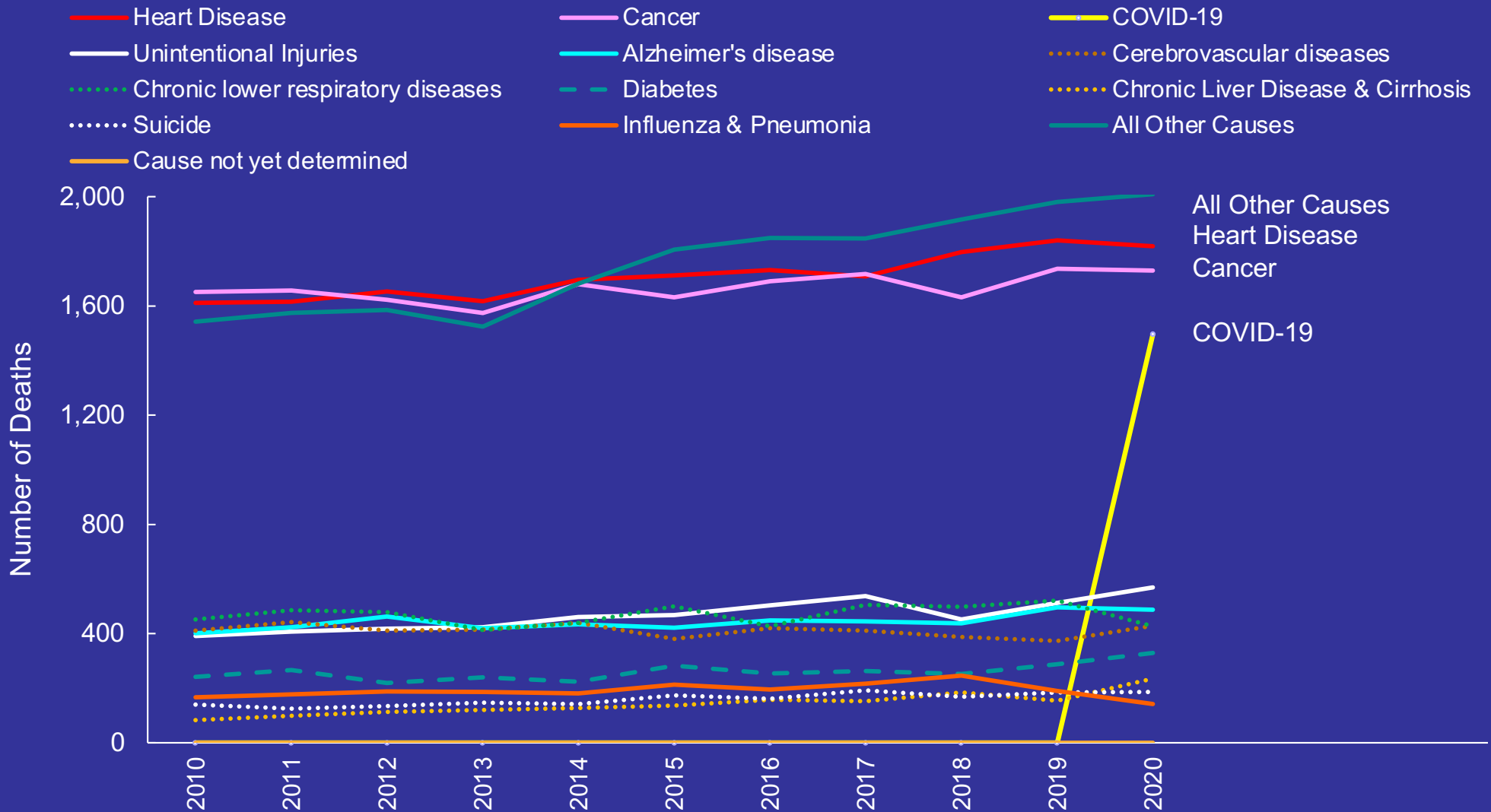
2020 & 2021 deaths are provisional.  
 Data as of 4/11/21

<https://doh.sd.gov/statistics/>  
<https://doh.sd.gov/documents/statistics/Mortality-Report-2020-2021.pdf>



# South Dakota Deaths

Number of Deaths by Cause and Year, 2010 - 2020

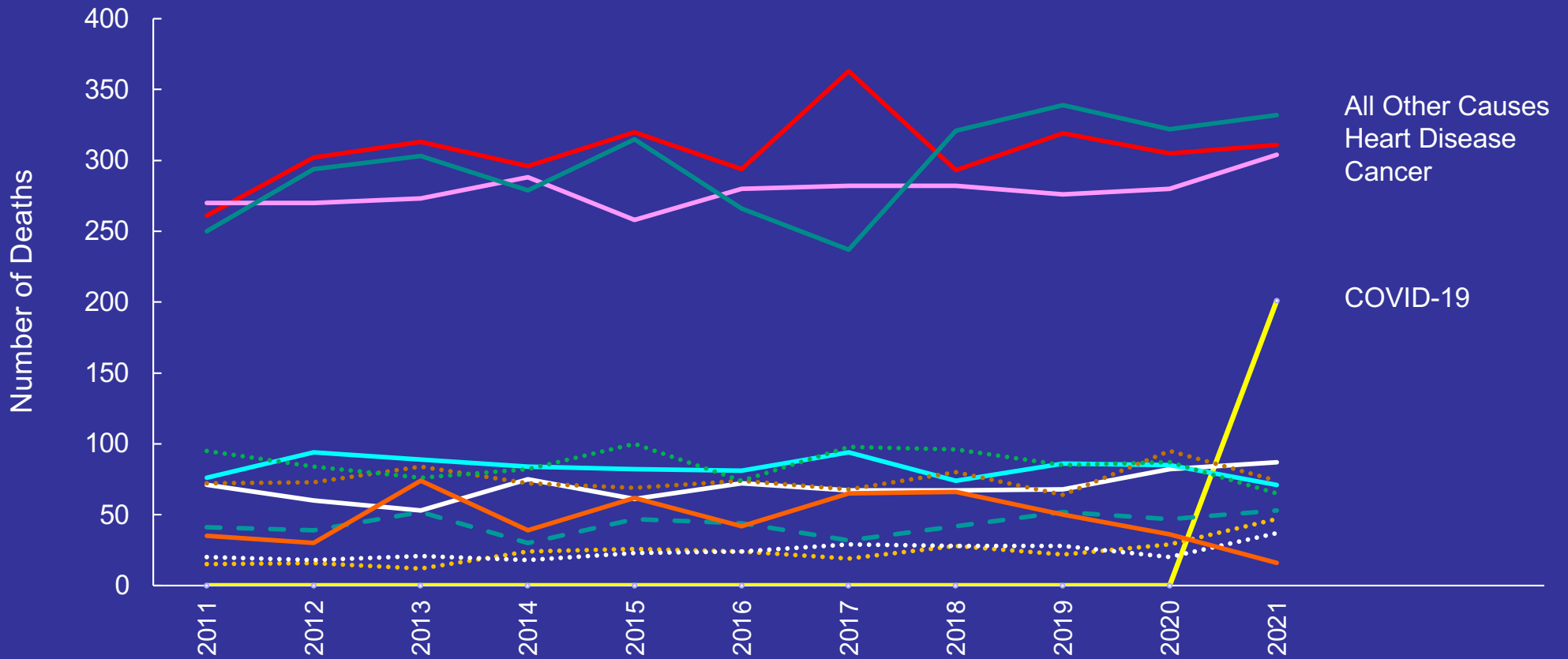
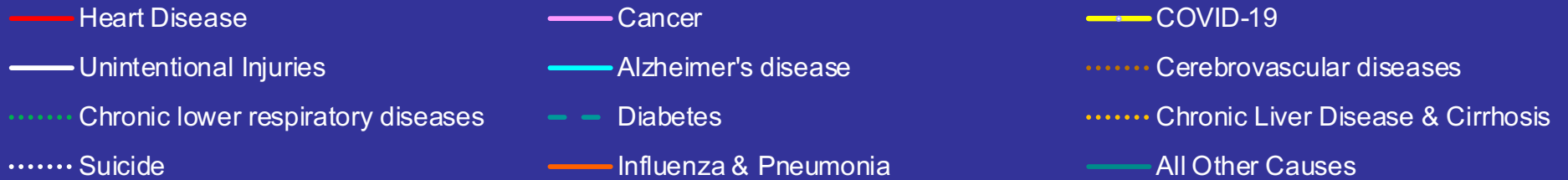


2020 deaths are provisional.  
Data as of 4/11/21

<https://doh.sd.gov/documents/statistics/Mortality-Report-2020-2021.pdf>

# South Dakota Deaths

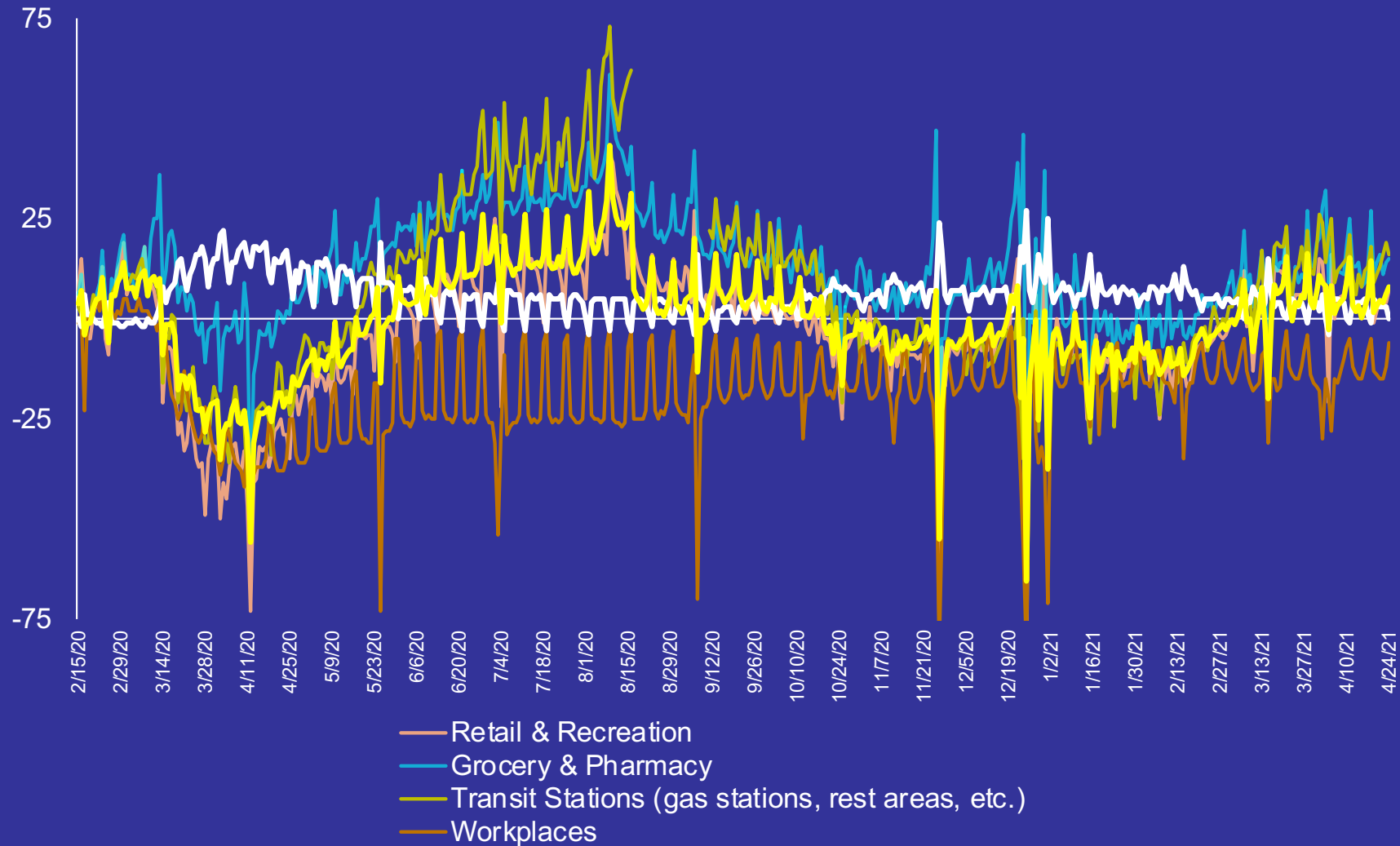
## Number of Deaths (January to February) by Cause and Year



2020 & 2021 deaths are provisional.  
Data as of 4/11/21

# 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.

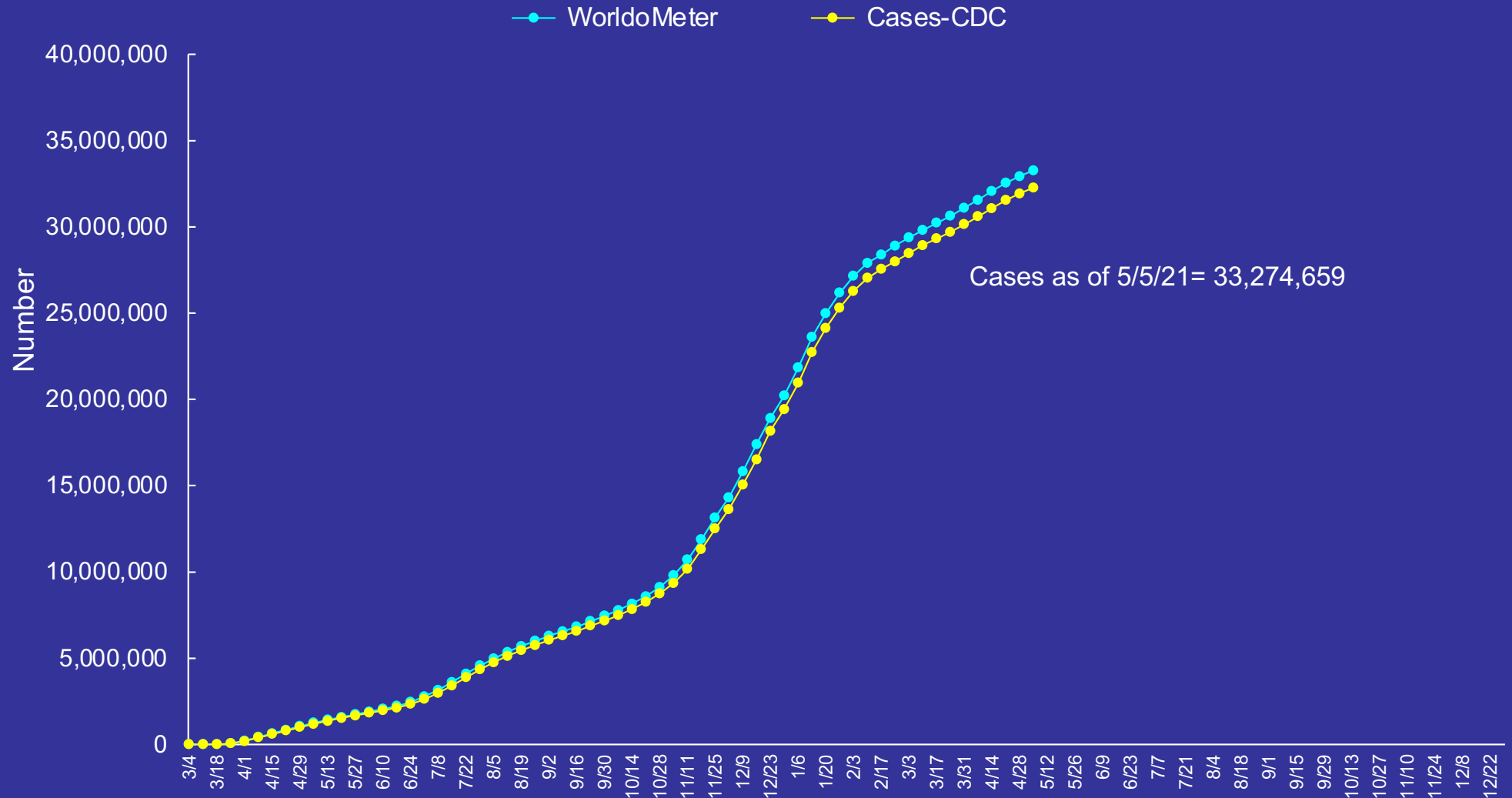
Data from Google COVID-19 Community Mobility Reports: <https://www.google.com/covid19/mobility/>

# **COVID-19 Situation**

**U.S.**

# U.S. COVID-19 Situation

## Cumulative Number of Confirmed Cases by Week

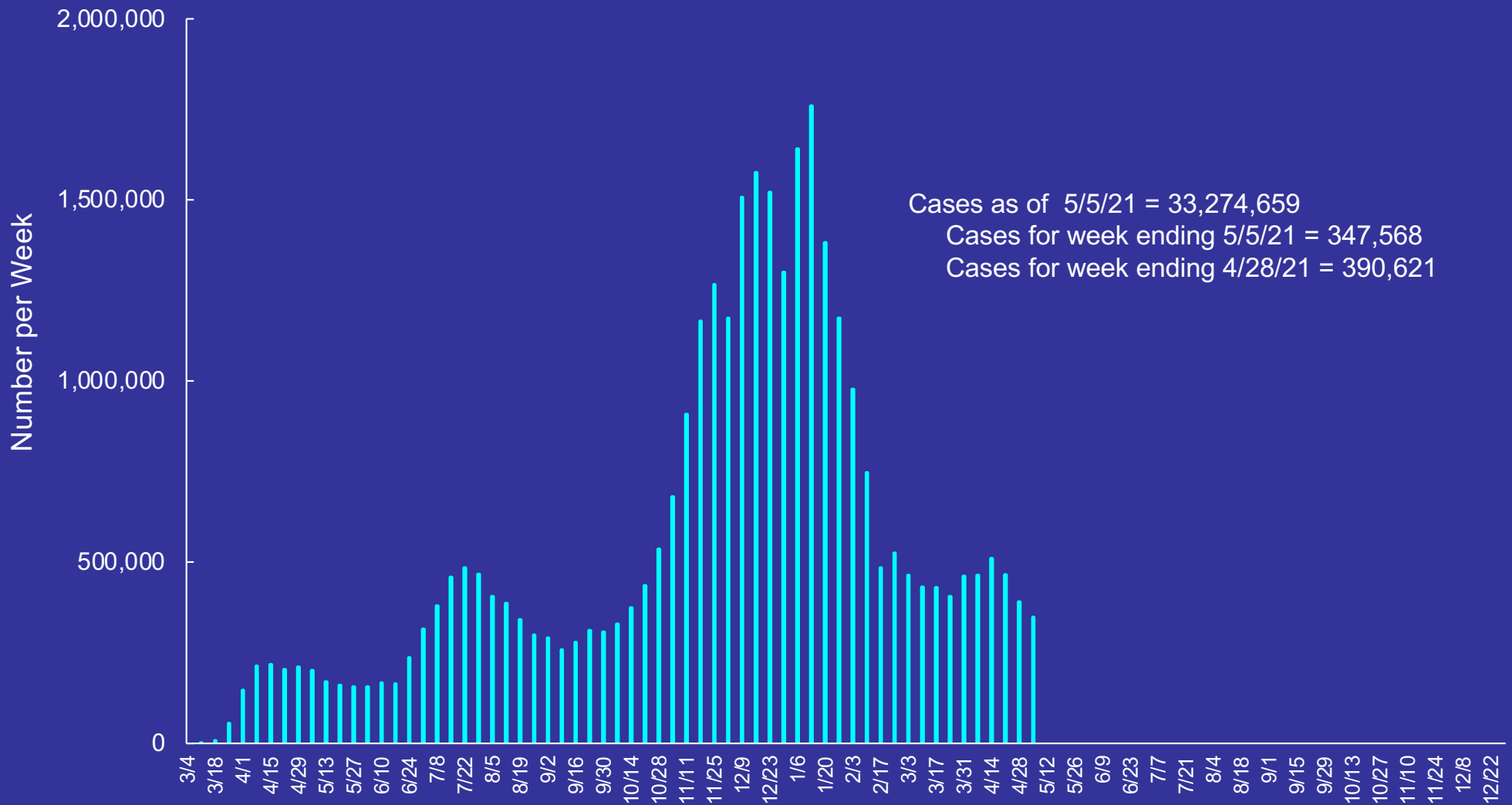


Numbers cited are from WorldoMeter

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

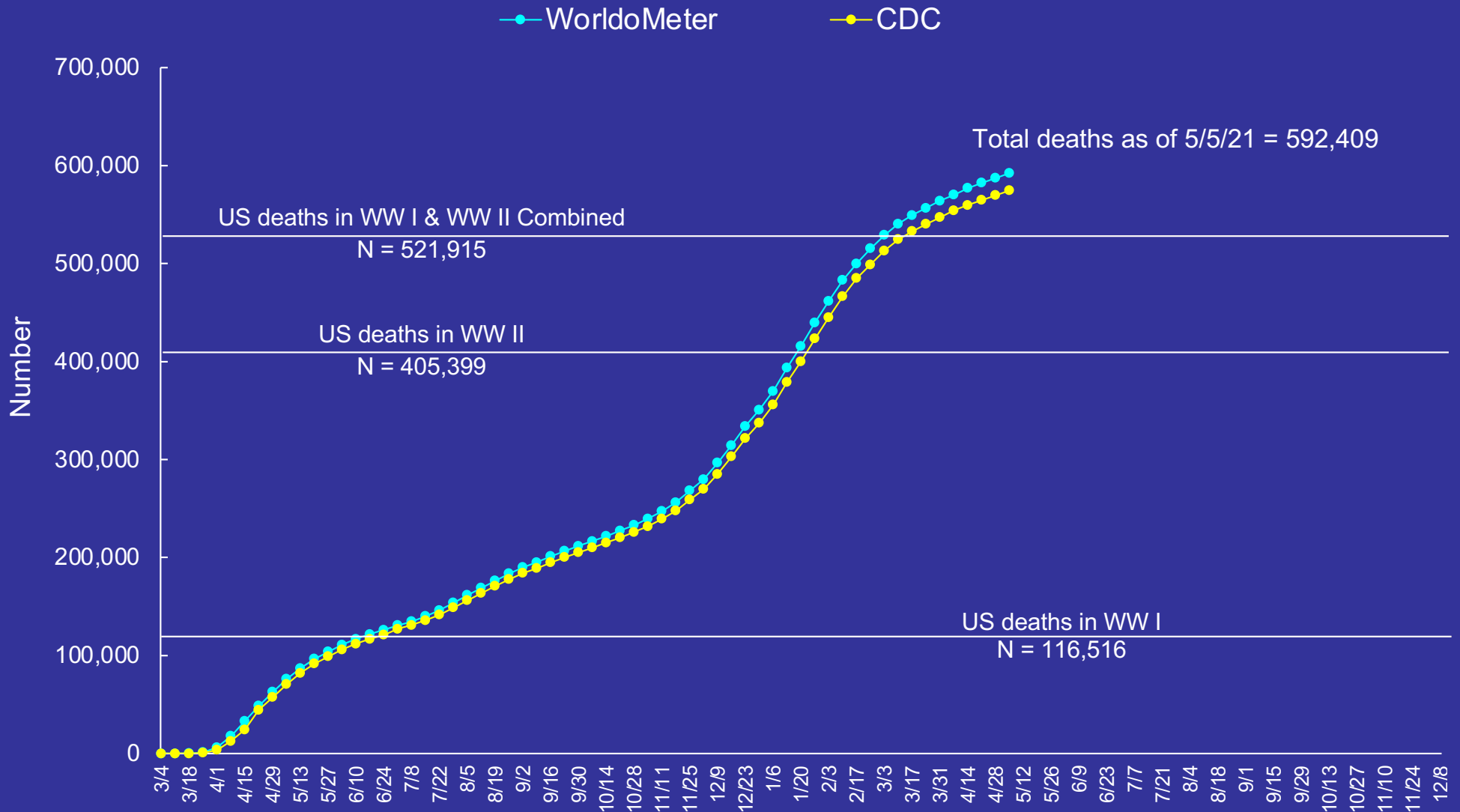
# U.S. COVID-19 Situation

Number of Newly Diagnosed Cases per Week



# U.S. COVID-19 Situation

## Cumulative Number of Deaths from COVID-19 by Week

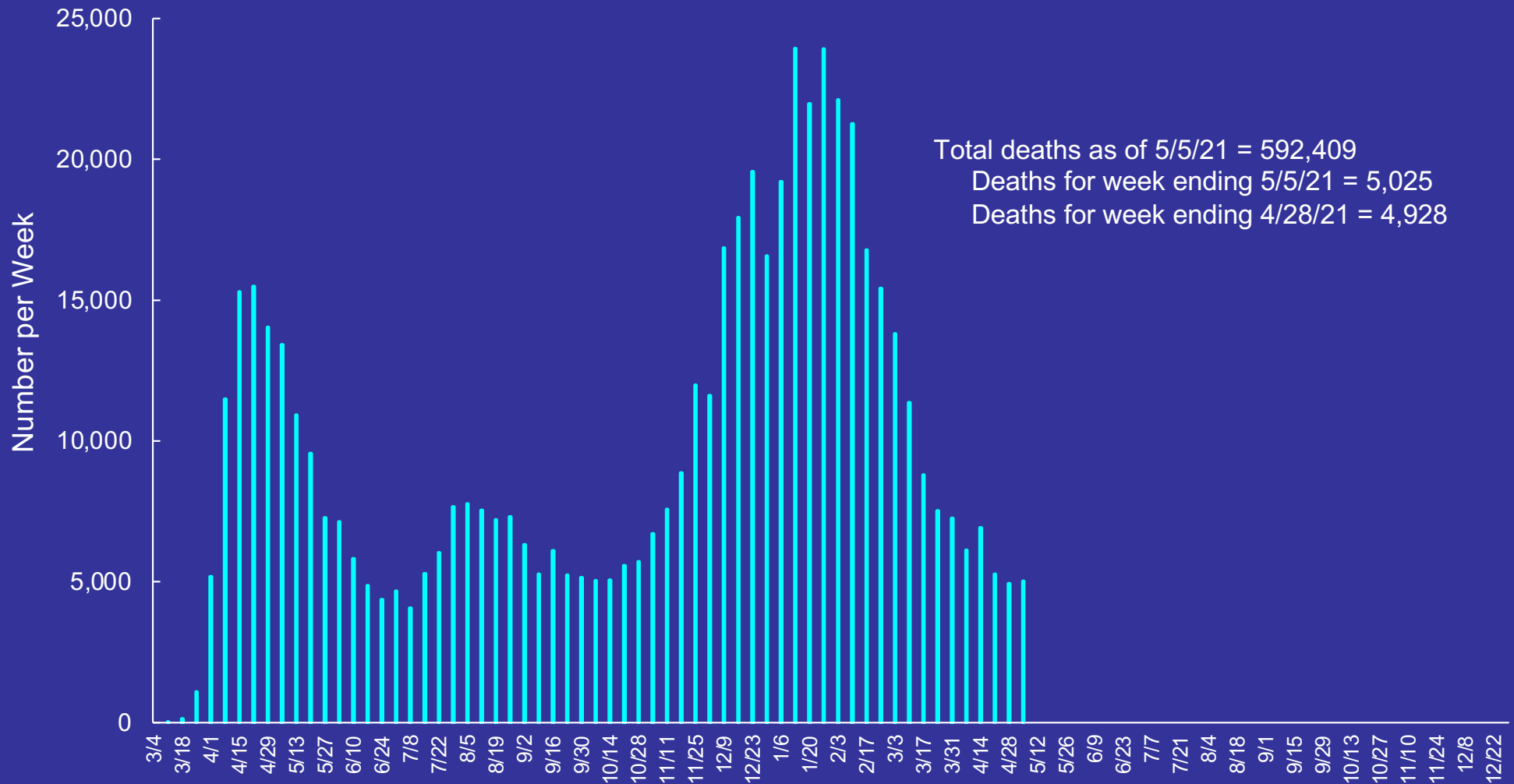


Numbers cited are from WorldoMeter

<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 5/5/21 = 592,409  
Deaths for week ending 5/5/21 = 5,025  
Deaths for week ending 4/28/21 = 4,928

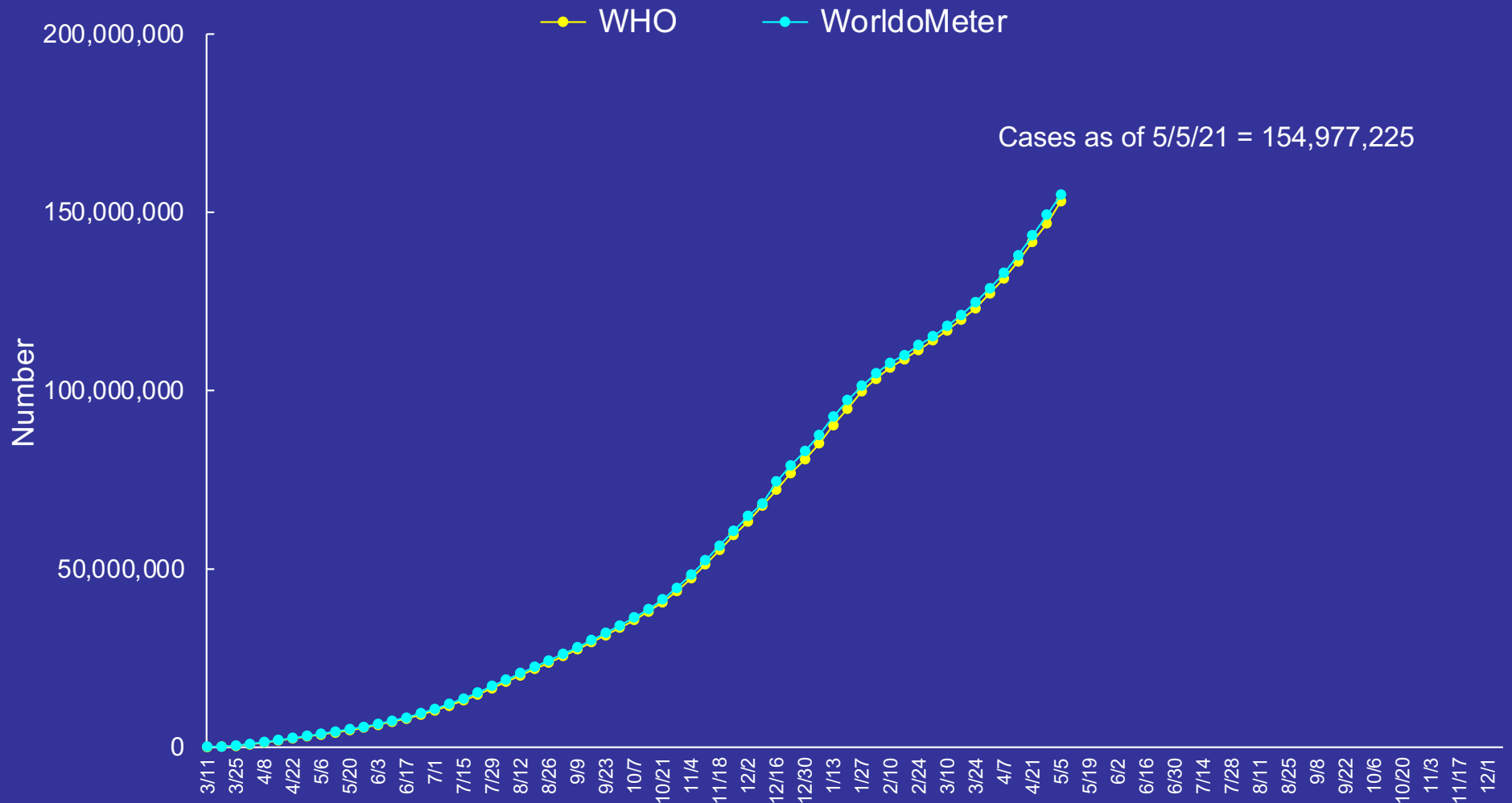
Numbers cited are from WorldoMeter



# **COVID-19 Situation World**

# World COVID-19 Situation

## Cumulative Number of Confirmed Cases

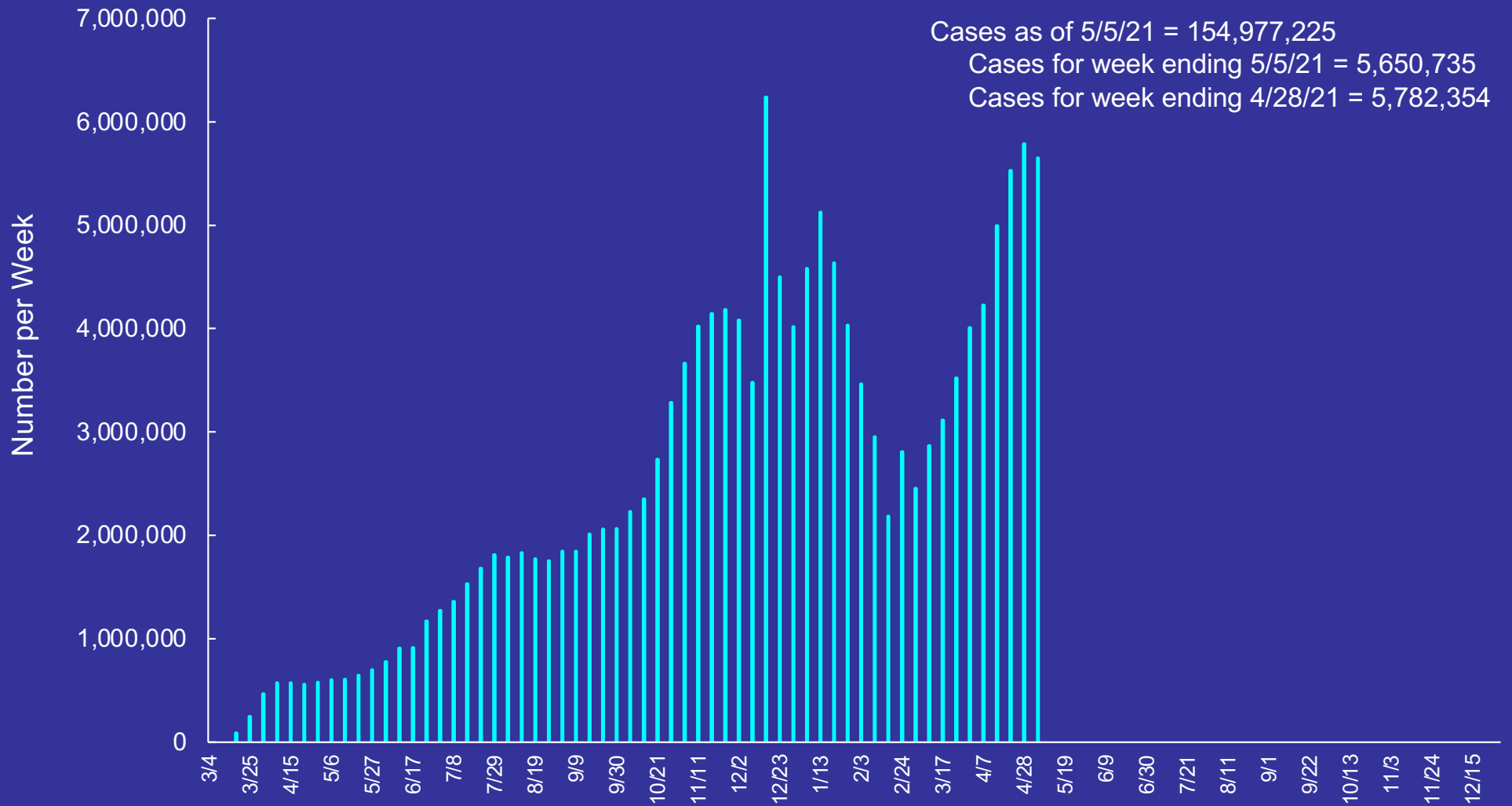


Numbers cited are from WorldoMeter

<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

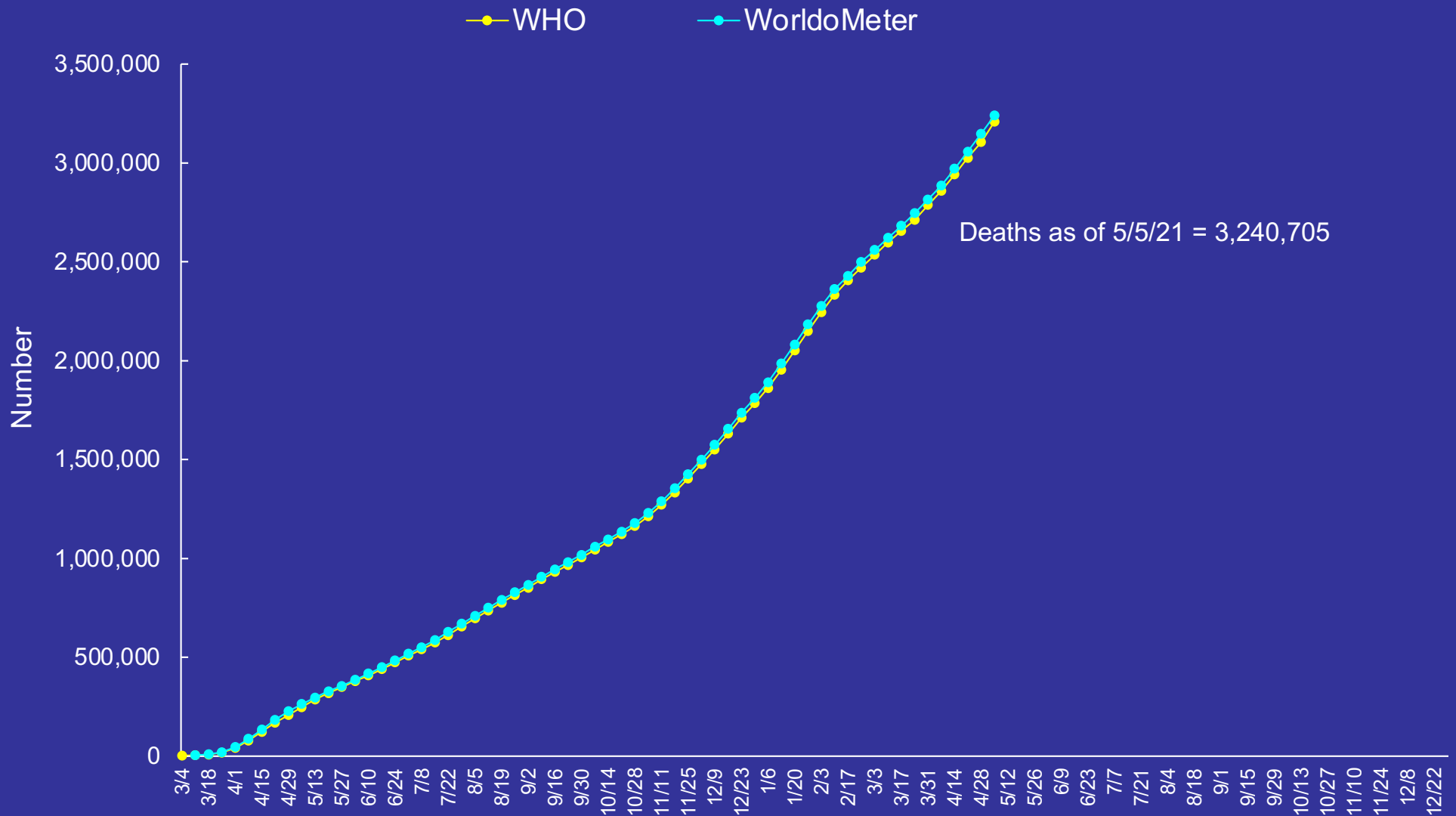


Numbers cited are from WorldoMeter

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

# World COVID-19 Situation

## Cumulative Number of Deaths from COVID-19

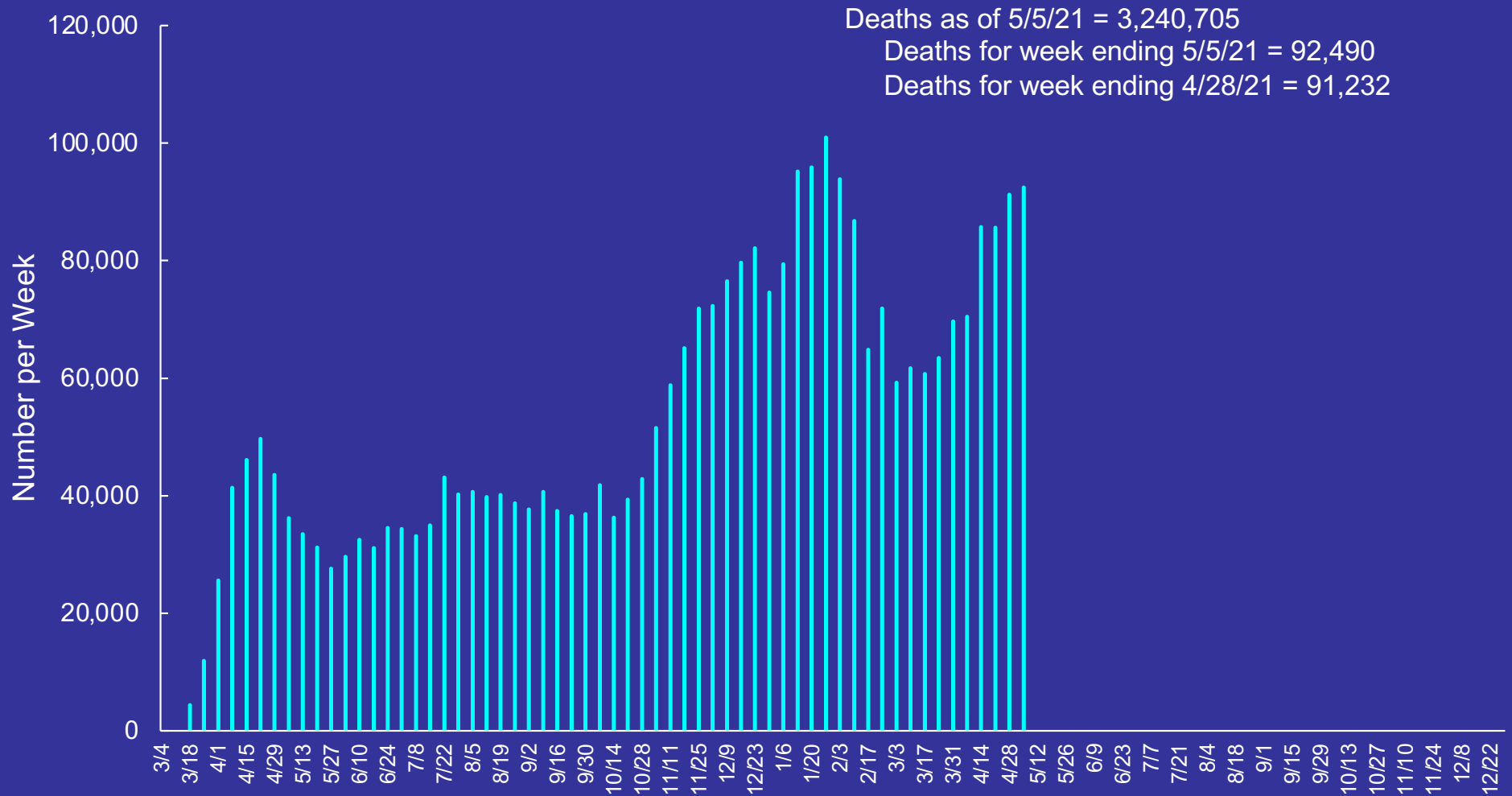


Deaths as of 5/5/21 = 3,240,705

Numbers cited are from WorldoMeter

# World COVID-19 Situation

## Number of Deaths from COVID per Week



Numbers cited are from Worldometer