

COVID-19 Situation Brookings County

June 15th

- New COVID cases/100,000 in past 7 days: 111/100K
- New COVID hospital admissions/100,000 in past 7 days: 2.8/100K
- % staffed inpatient beds occupied by COVID patients*: 2.9%
- Community level: **low** Transmission: **high** (%TP=31%^)

New COVID-19 Cases (per 100K in past 7 days)	Indicators	Low	Medium	High
Fewer than 200	New COVID admissions/100K (7-day total)	<10.0	10.0-19.9	≥20.0
	% of staffed inpatient beds occupied by COVID patients (7-day average)	<10.0%	10.0-14.9%	≥15.0%
200 or more	New COVID admissions/100K (7-day total)	NA	<10.0	≥10.0
	% of staffed inpatient beds occupied by COVID patients (7-day average)	NA	<10.0%	≥10.0%

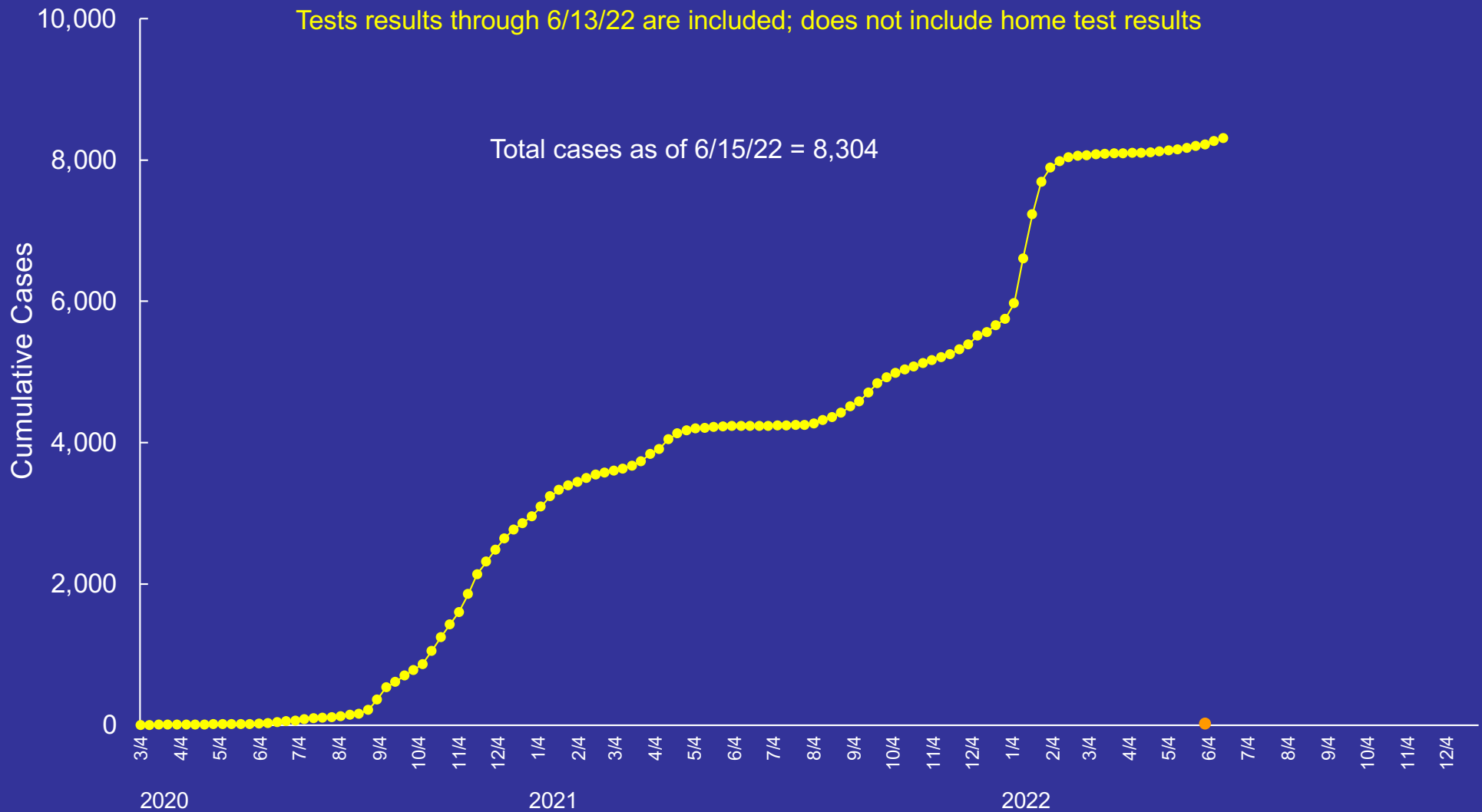
100K = 100,000 population (Brookings County 2019 Census population = 35,077)

* Percent of region-specific (Sioux Empire) hospital beds occupied by COVID as of this report's date

^ %TP = percent test positivity

Brookings COVID-19 Situation

2020-2022 Cumulative Number of Confirmed & Probable Cases by Week



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

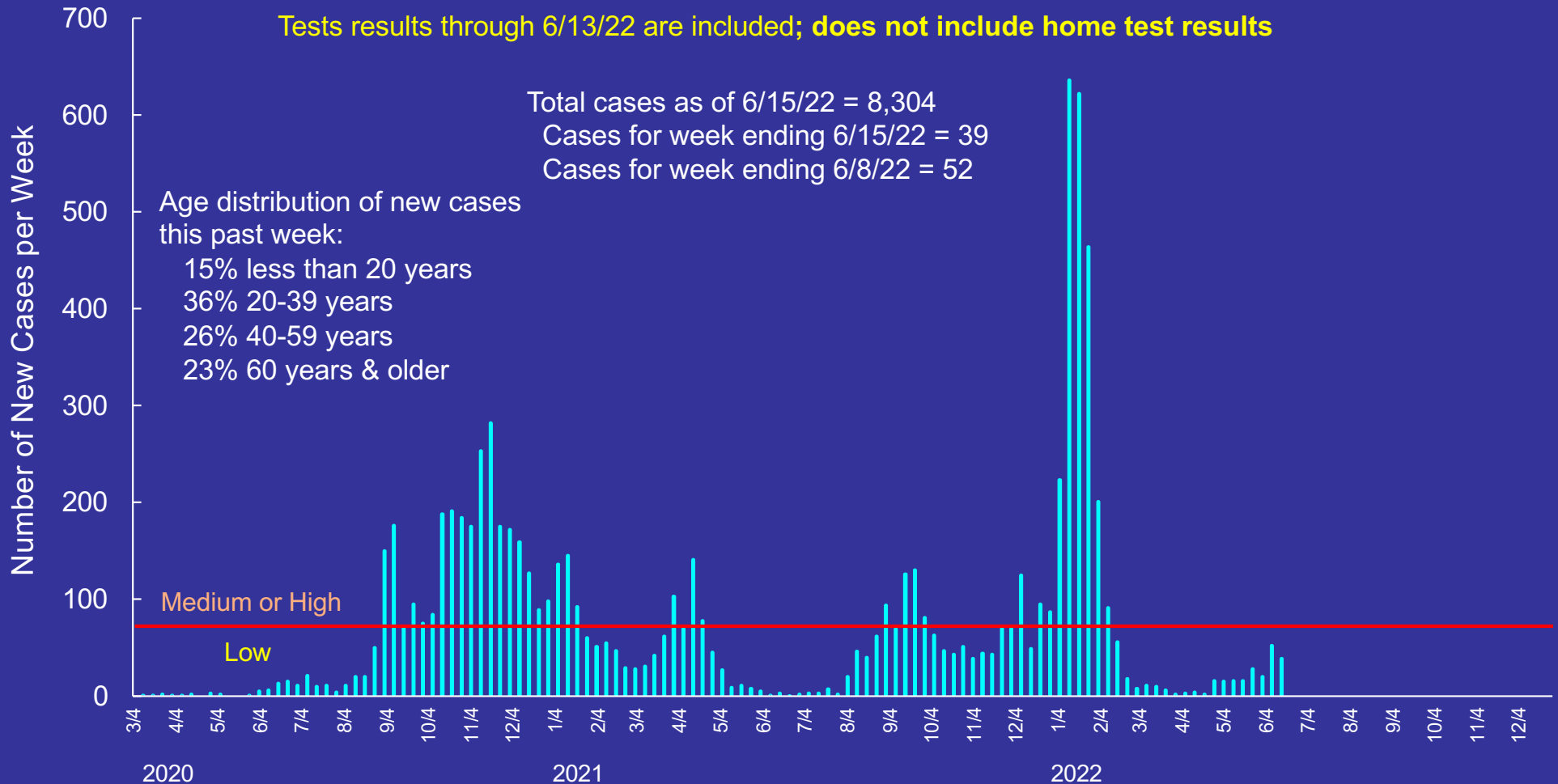
<https://doh.sd.gov/COVID/Dashboard.aspx>

Brookings COVID-19 Situation

2020-2022 Number of Confirmed & Probable COVID-19 Cases per Week

Community Level[^]: **Low** Community Transmission: **High**

Tests results through 6/13/22 are included; **does not include home test results**

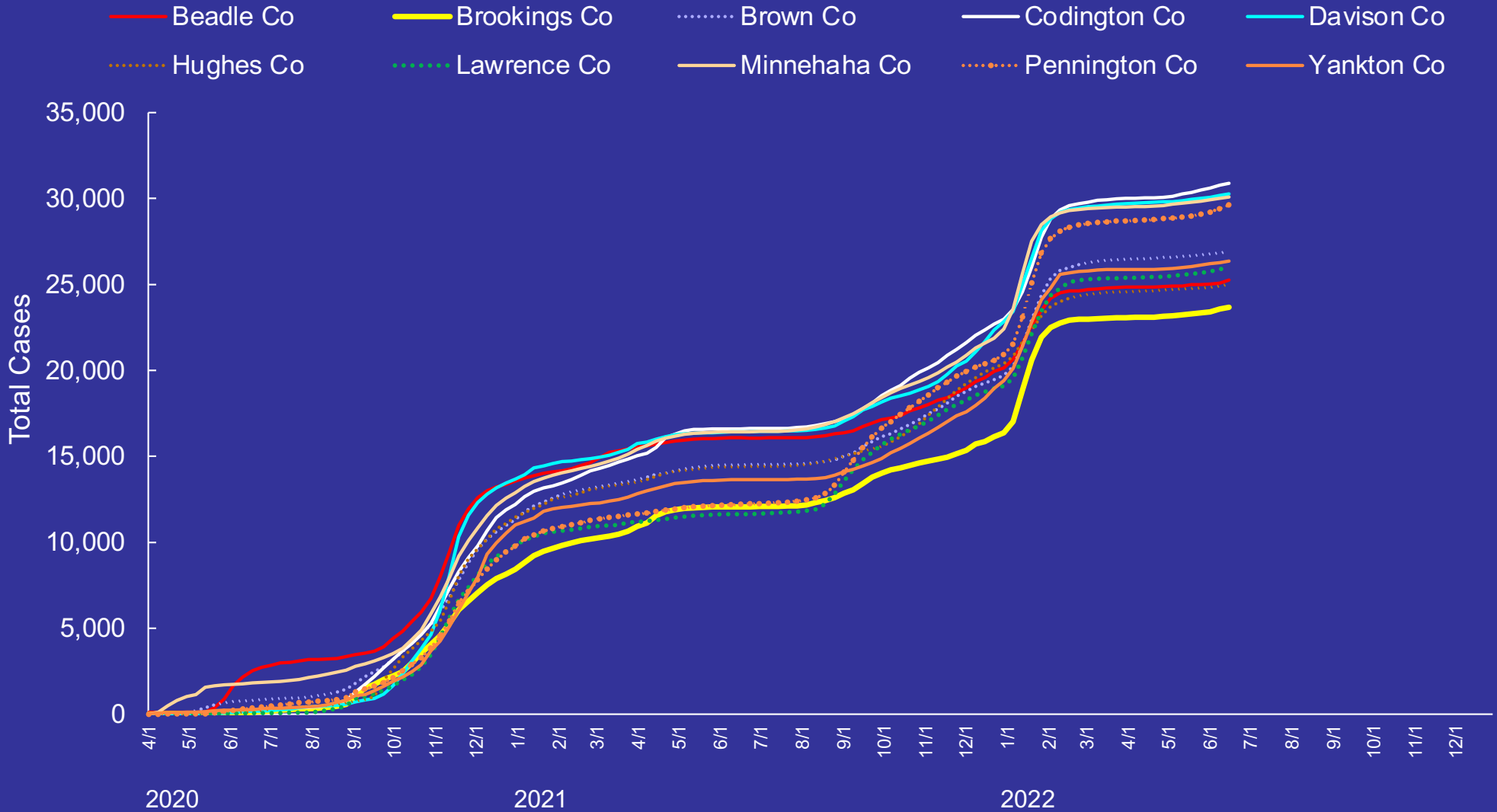


[^] Definition of community level is shown on first slide. Line shown for new cases per 100,000 population in past 7 days (n=70). Community transmission is based on rate and percent test positivity

Counties with Top 10 Most Populated Cities

Cumulative Cases per 100,000 Population by Week

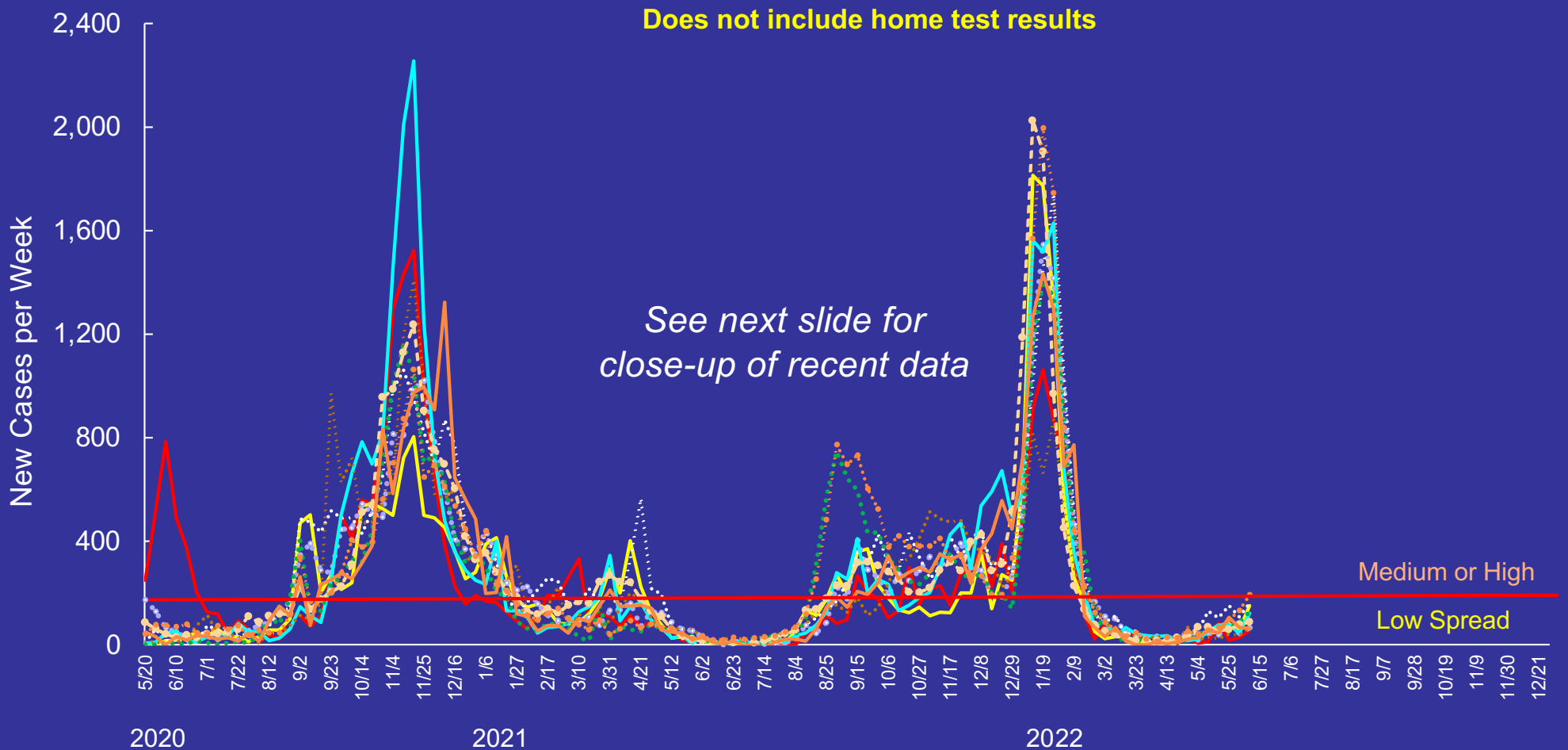
Does not include home test results



Counties with Top 10 Most Populated Cities

New Cases per Week per 100,000 Population

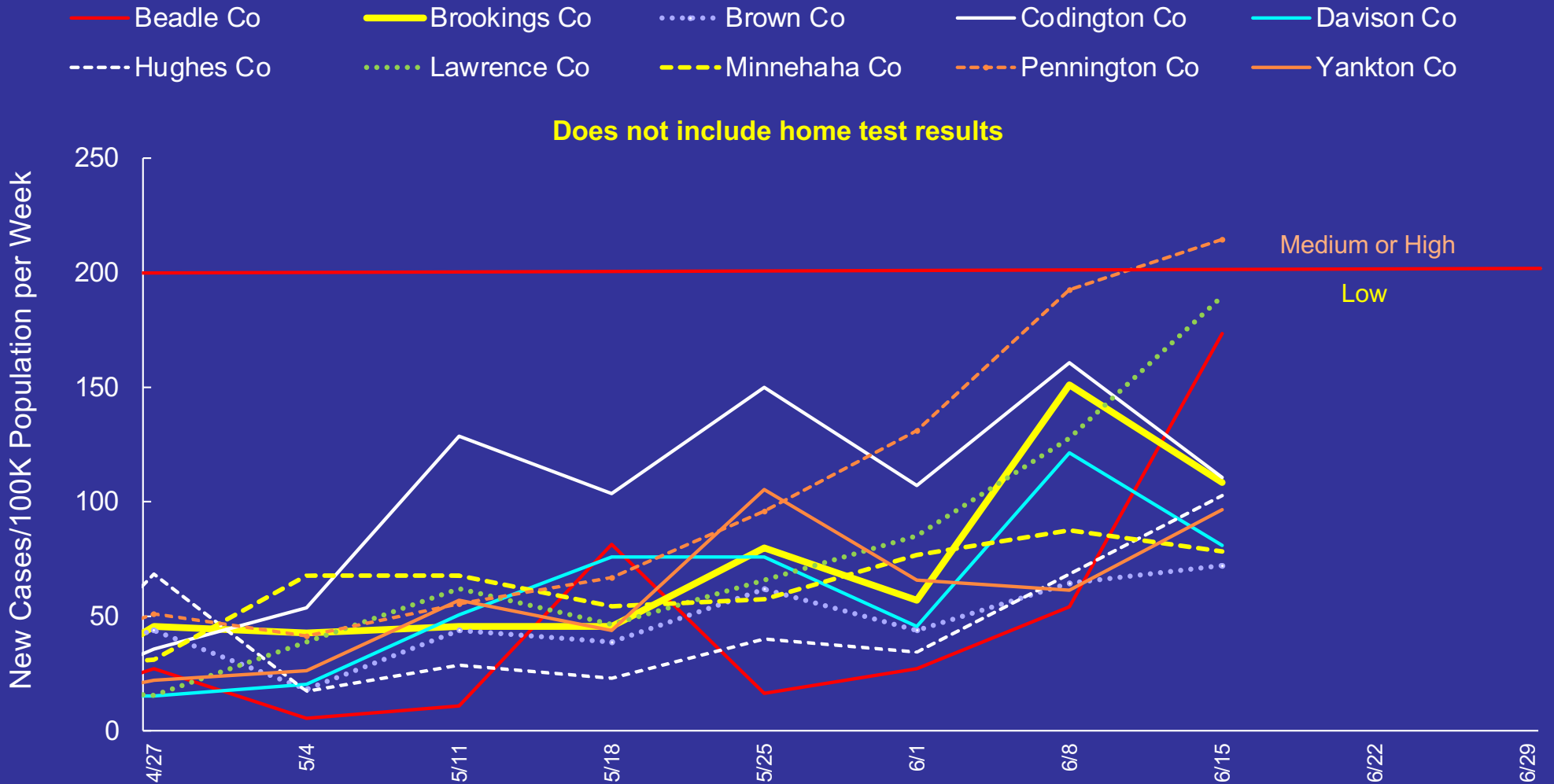
- Beadle Co
- Brookings Co
- Brown Co
- Codington Co
- Davison Co
- Hughes Co
- Lawrence Co
- - - Minnehaha Co
- Pennington Co
- Yankton Co



See first slide for definitions of community spread. Line shown above is 200 new cases in past week per 100,000 population. 2019 Census county population estimates used.

Counties with Top 10 Most Populated Cities

New Cases per Week per 100,000 Population, 2022

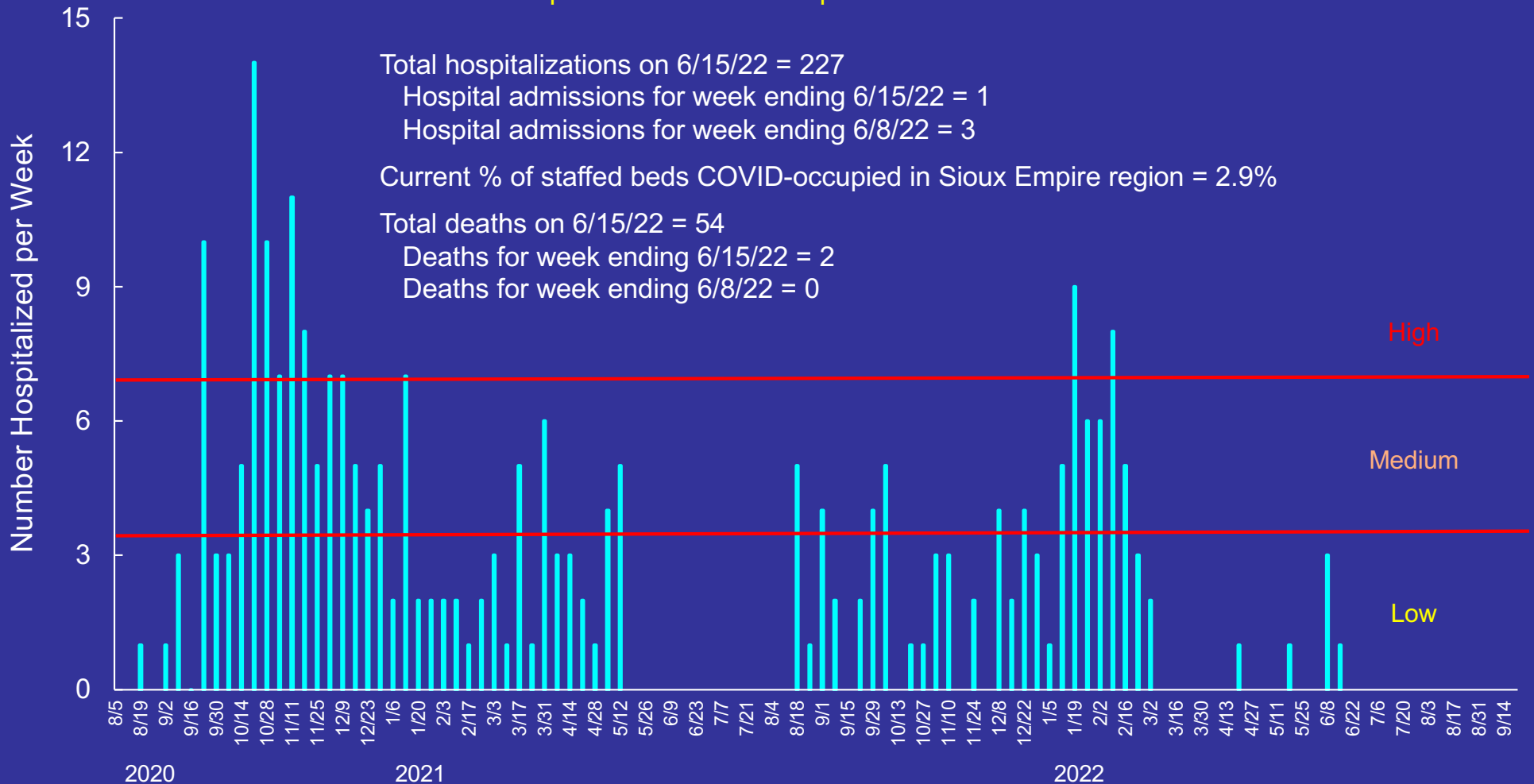


See first slide for definitions of community spread. Line shown above is 200 new cases in past week per 100,000 population. 2019 Census county population estimates used.

Brookings COVID-19 Situation

2020-2022 Number of New Hospitalizations per Week

Hospitalization data incomplete after 6/6/22



See first slide for definitions of community spread. Lines shown above are 10 and 20 new hospital admissions in past 7 seven days per 100,000 population (n=3.5 and 7, respectively). Includes only Brookings County residents. Between 5/26 & 7/14/21, new admissions could not be determined - SDDOH cleaned the hospitalization database (removing duplicates, out-of-state residents, etc.), leading to a lower total number of hospitalizations.

COVID-19 Situation South Dakota

June 15th

- New COVID cases/100,000 in past 7 days: 110/100K
- New COVID hospital admissions/100,000 in past 7 days: 5.1/100K
- % staffed inpatient beds occupied by COVID patients*: 2.2%
- Community level: **low** Transmission: **high** (%TP = 19%)

New COVID-19 Cases (per 100K in past 7 days)	Indicators	Low	Medium	High
Fewer than 200	New COVID admissions/100K (7-day total)	<10.0	10.0-19.9	≥20.0
	% of staffed inpatient beds occupied by COVID patients (7-day average)	<10.0%	10.0-14.9%	≥15.0%
200 or more	New COVID admissions/100K (7-day total)	NA	<10.0	≥10.0
	% of staffed inpatient beds occupied by COVID patients (7-day average)	NA	<10.0%	≥10.0%

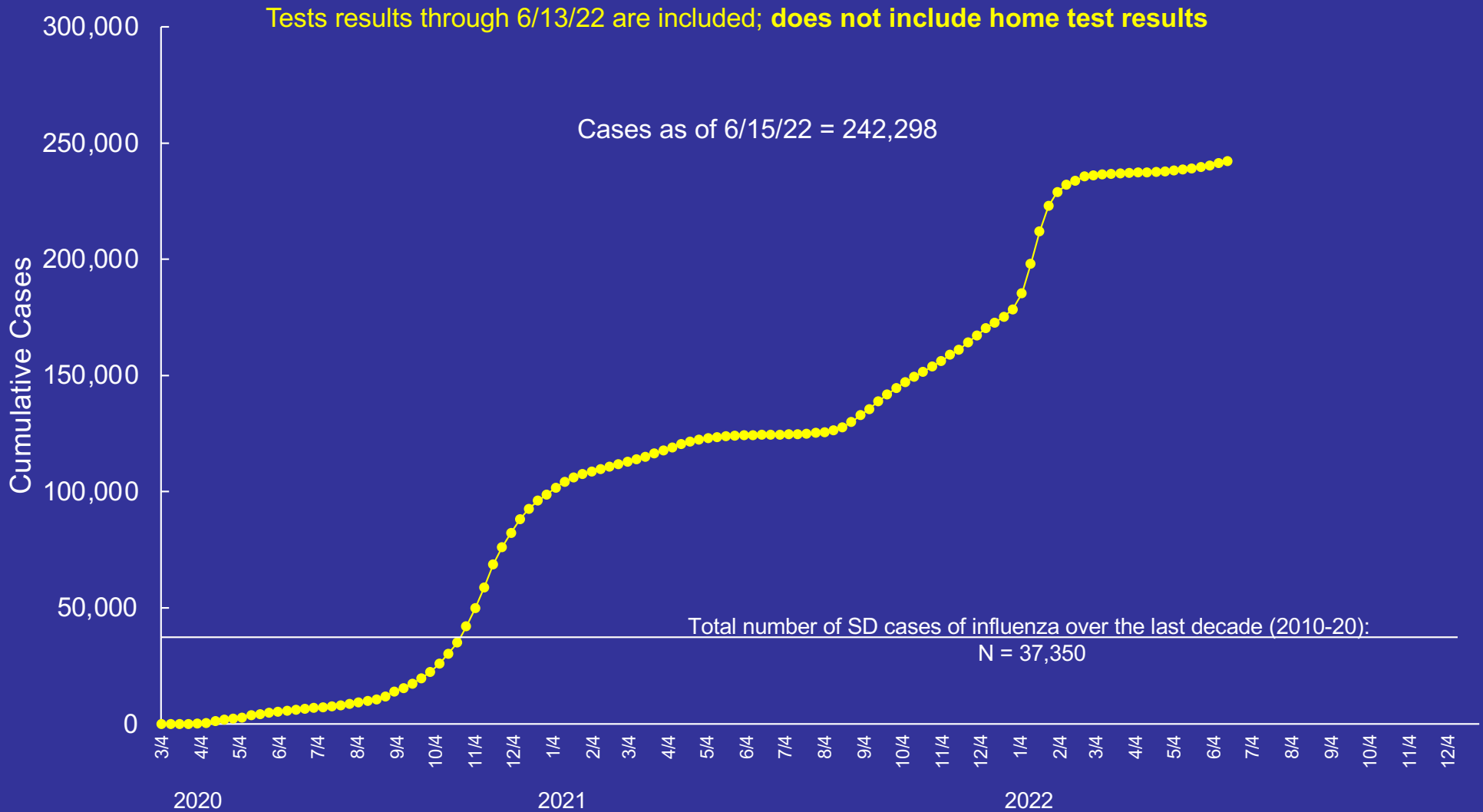
100K = 100,000 population (South Dakota 2019 Census population = 884,659)

* Percent of hospital beds in the state occupied by COVID as of this report's date

%TP = percent test positivity

South Dakota COVID-19 Situation

2020-2022 Cumulative Number of Confirmed & Probable Cases by Week

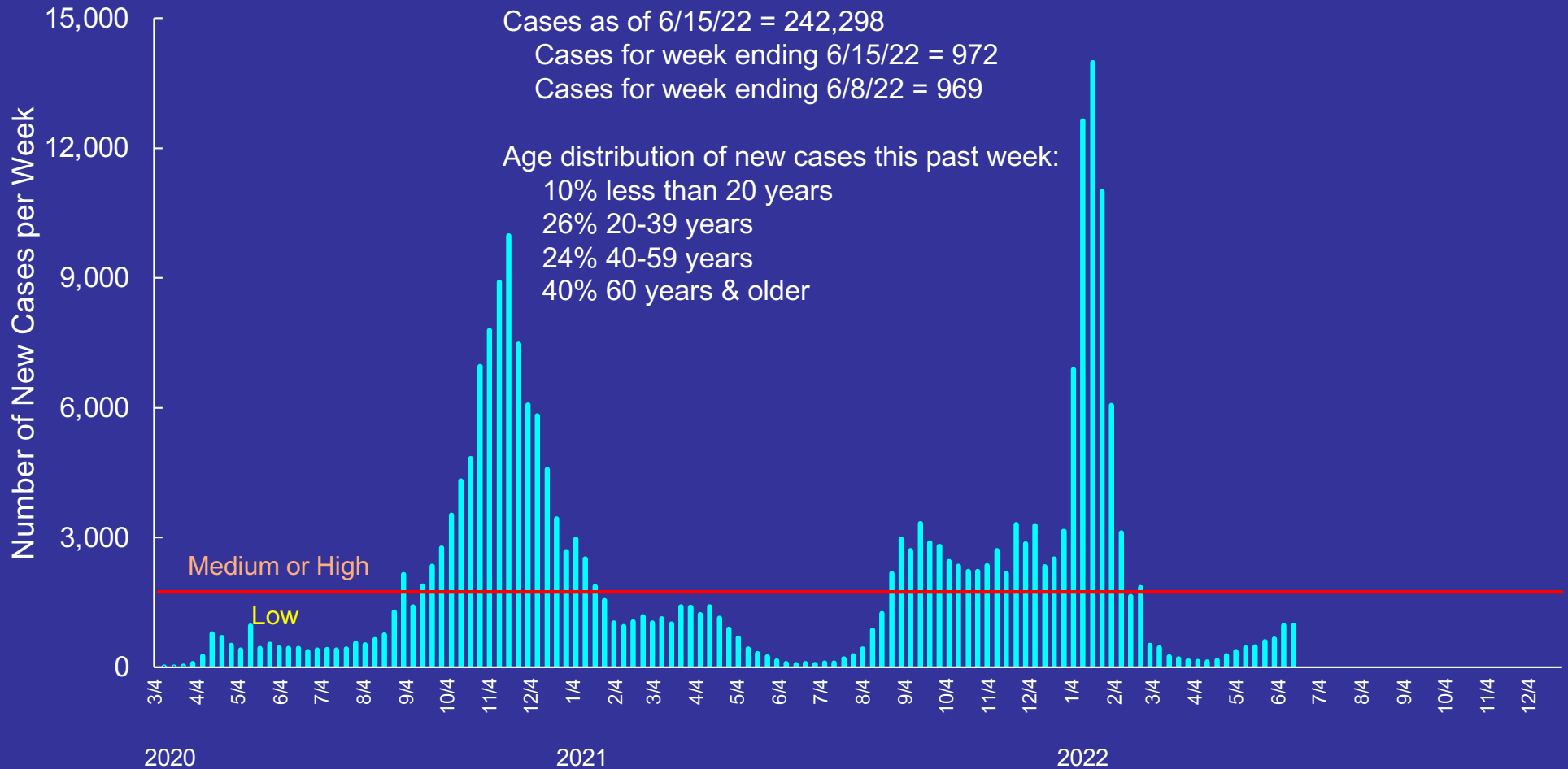


State residents only. Includes confirmed cases by PCR & probable cases by antigen testing.

South Dakota COVID-19 Situation

2020-2022 Confirmed & Probable Cases per Week

Tests results through 6/13/22 are included; **does not include home test results**

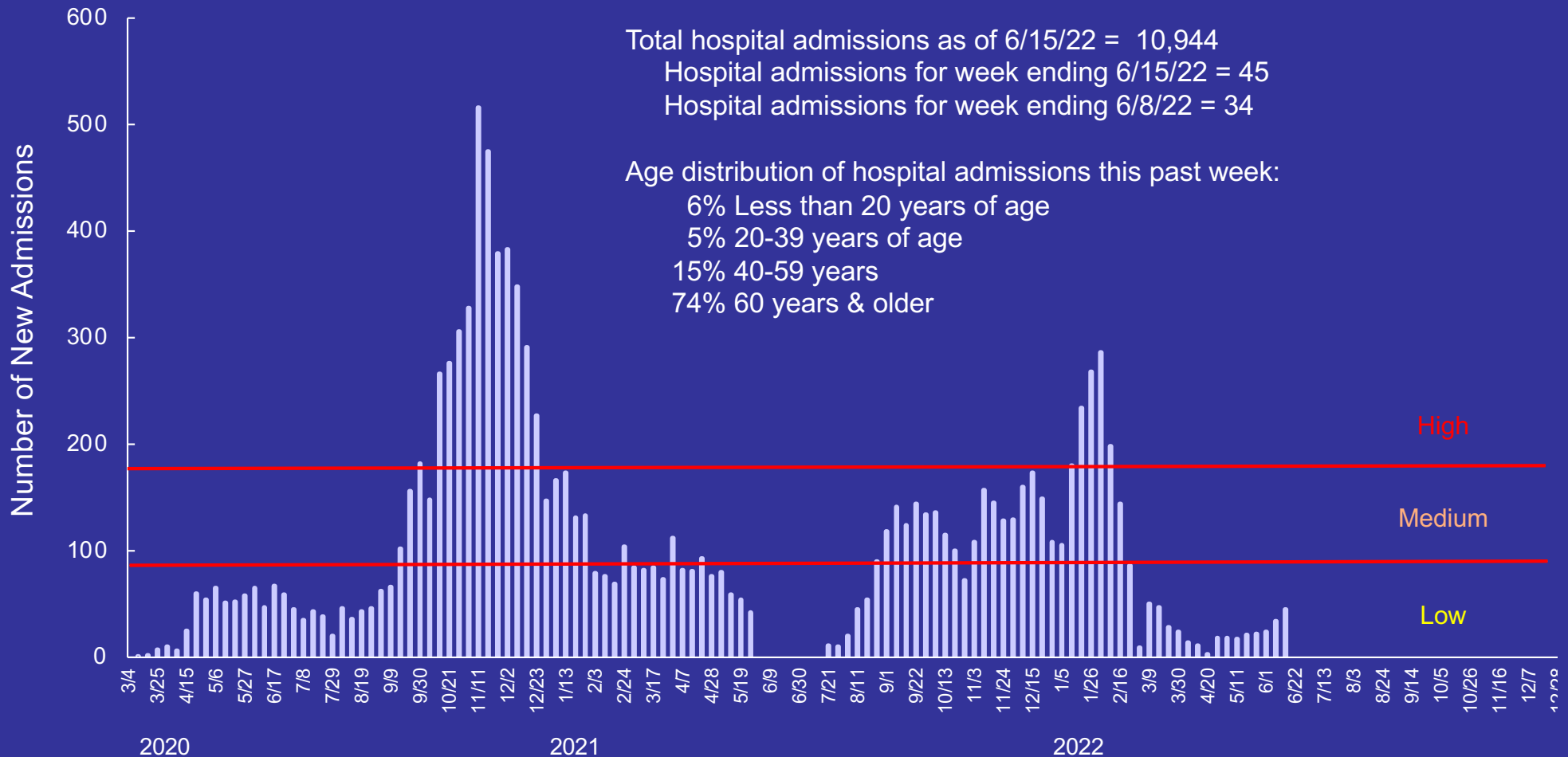


Definition of community level is shown on first South Dakota slide. Line shown for new cases per 100,000 population in past 7 days (n=1,769). Age is not available on all cases.

South Dakota COVID-19 Situation

2020-2022 Weekly Hospitalization Data

Hospitalization data after 6/6/22 are incomplete



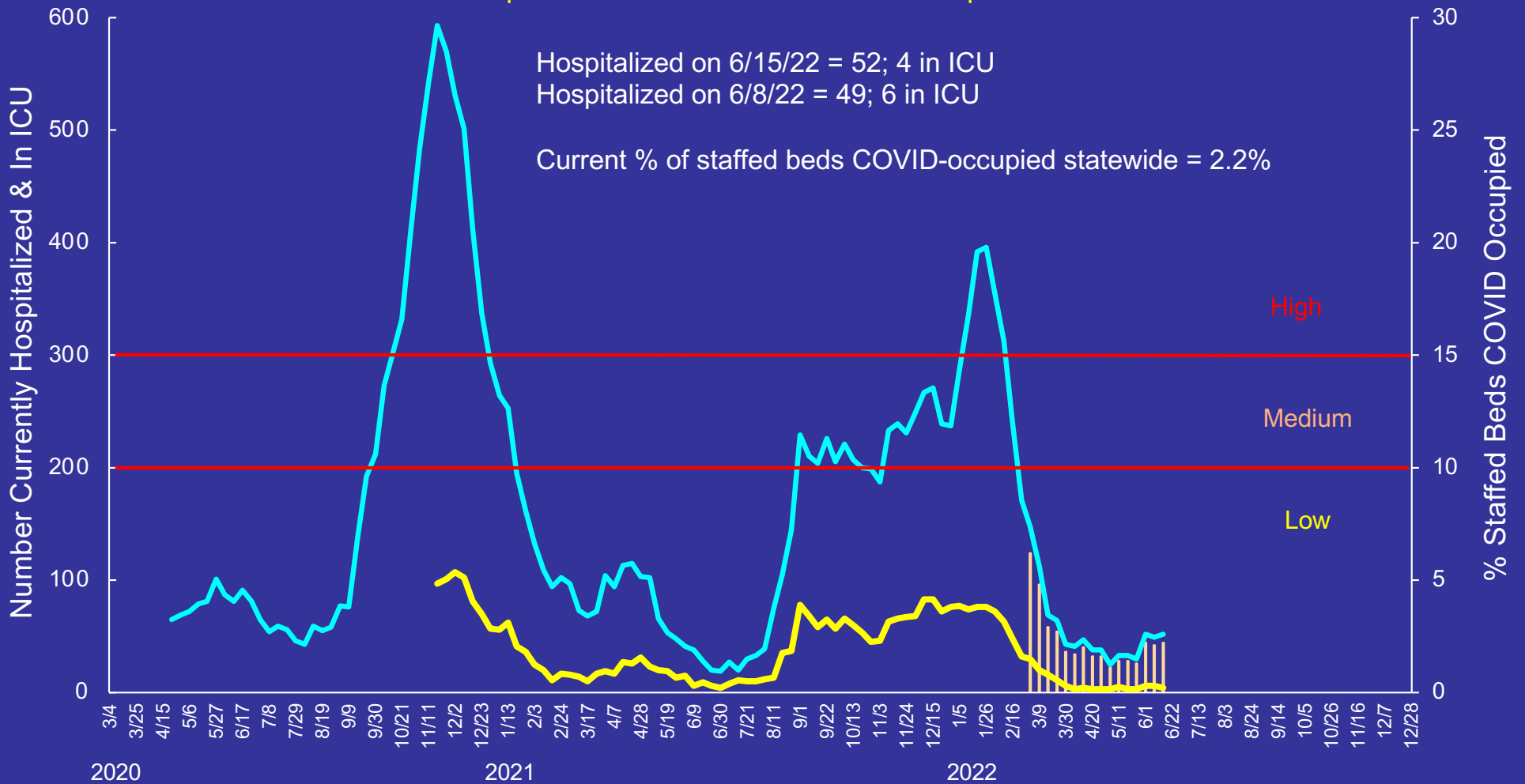
See first SD slide for definitions of community spread. Lines shown above are 10 and 20 new hospital admissions in past 7 seven days per 100,000 population (n=88 and 176, respectively). New admissions include only state residents; does not include patients on home health care. Between 5/26 & 7/14/21, new admissions could not be determined - SDDOH cleaned the hospitalization database (removing duplicates, out-of-state residents, etc.), leading to a lower total number of hospitalizations.

South Dakota COVID-19 Situation

2020-2022 Weekly Hospitalization Data

■ % Staffed Beds COVID Occupied
 — Currently Hospitalized in SD
 — Number in ICU

Hospitalization data after 6/6/22 are incomplete



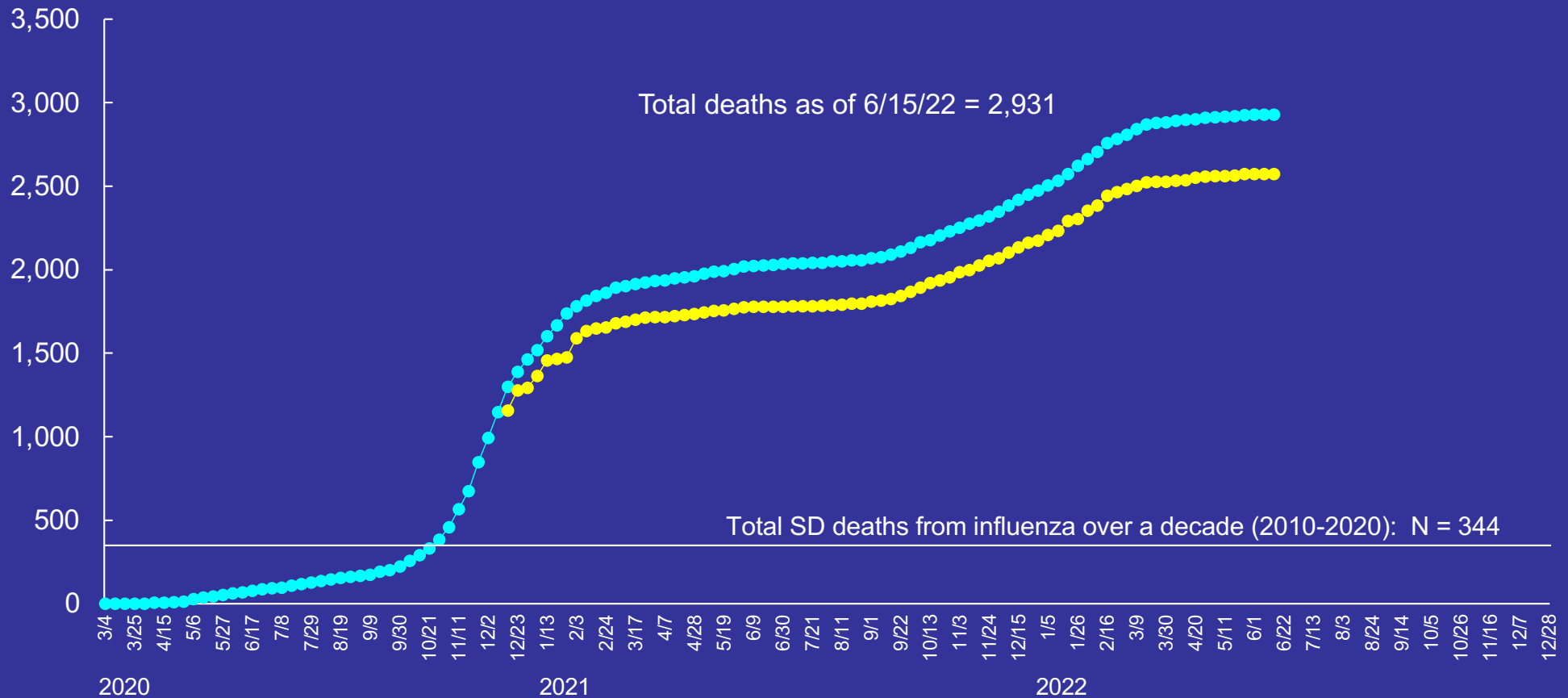
See first SD slide for definitions of community spread. Lines shown above are 10% and 15% of staffed hospital beds COVID occupied. Currently hospitalized includes state and out-of-state residents and transfers in from other states, but not residents transferred out-of-state.

South Dakota COVID-19 Situation

2020-2022 Cumulative Number of Deaths by Week

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

Death data incomplete after 6/6/22

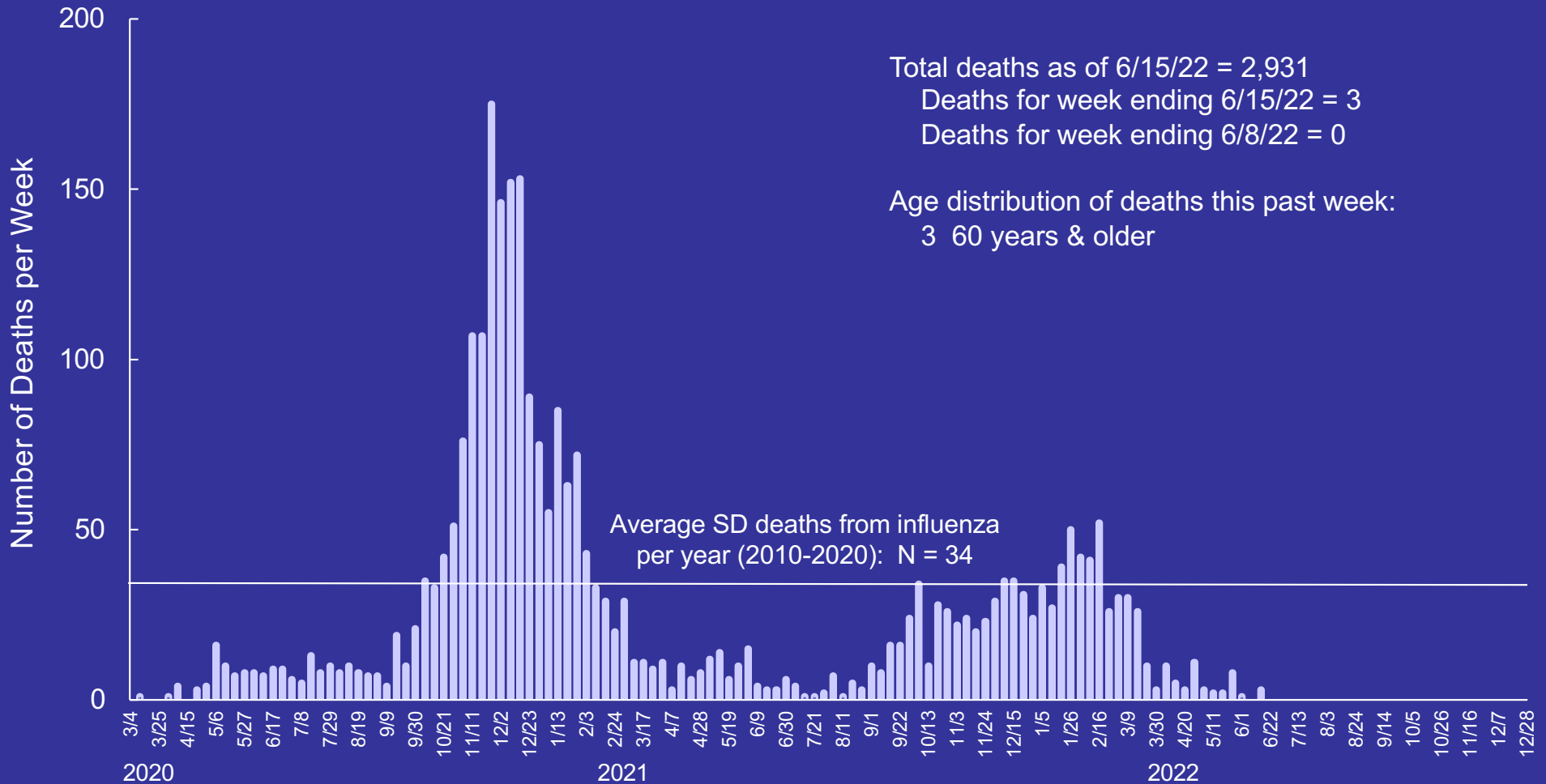


Dept of Health does not report deaths until a certified death record is filed. By law, a death record must be filed within 5 days of the date of death. Deaths caused by COVID based on death certificates where COVID is cause of death or contributing cause. Deaths among people with COVID include death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

2020-2022 Number of Deaths per Week among People with COVID-19

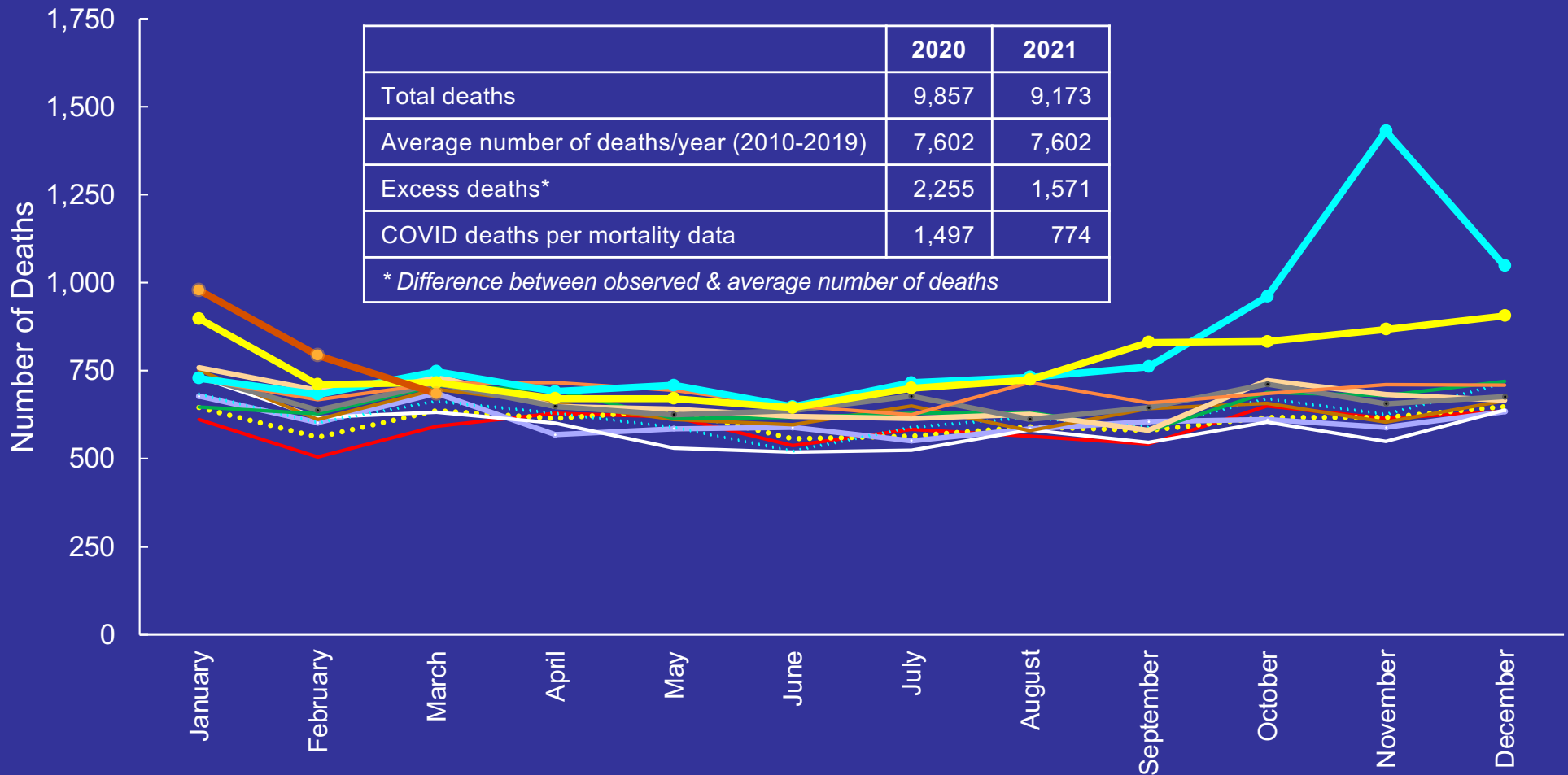
Death data incomplete after 6/6/22



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

South Dakota Deaths

Number of Deaths by Year and Month



2021 and 2022 deaths are provisional.
Data as of 4/17/22

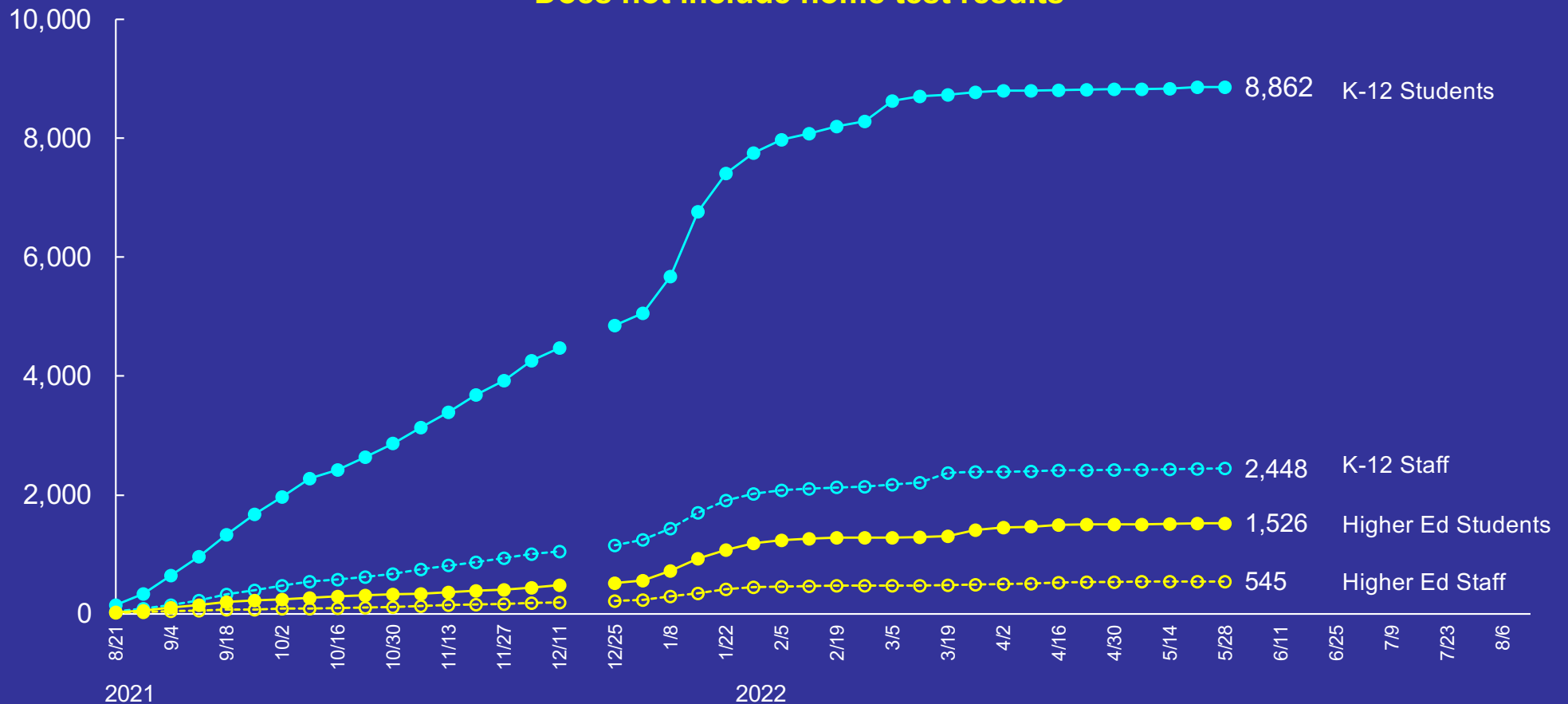
<https://doh.sd.gov/statistics/>
<https://doh.sd.gov/documents/statistics/Mortality-Report-2022-Provisional.pdf>

South Dakota COVID-19 Situation

Cumulative Number of COVID-19 Cases by Week 2021-2022 School Year

—●— K-12 Students - -○- - K-12 Staff —●— Higher Ed Students - -○- - Higher Ed Staff

Does not include home test results

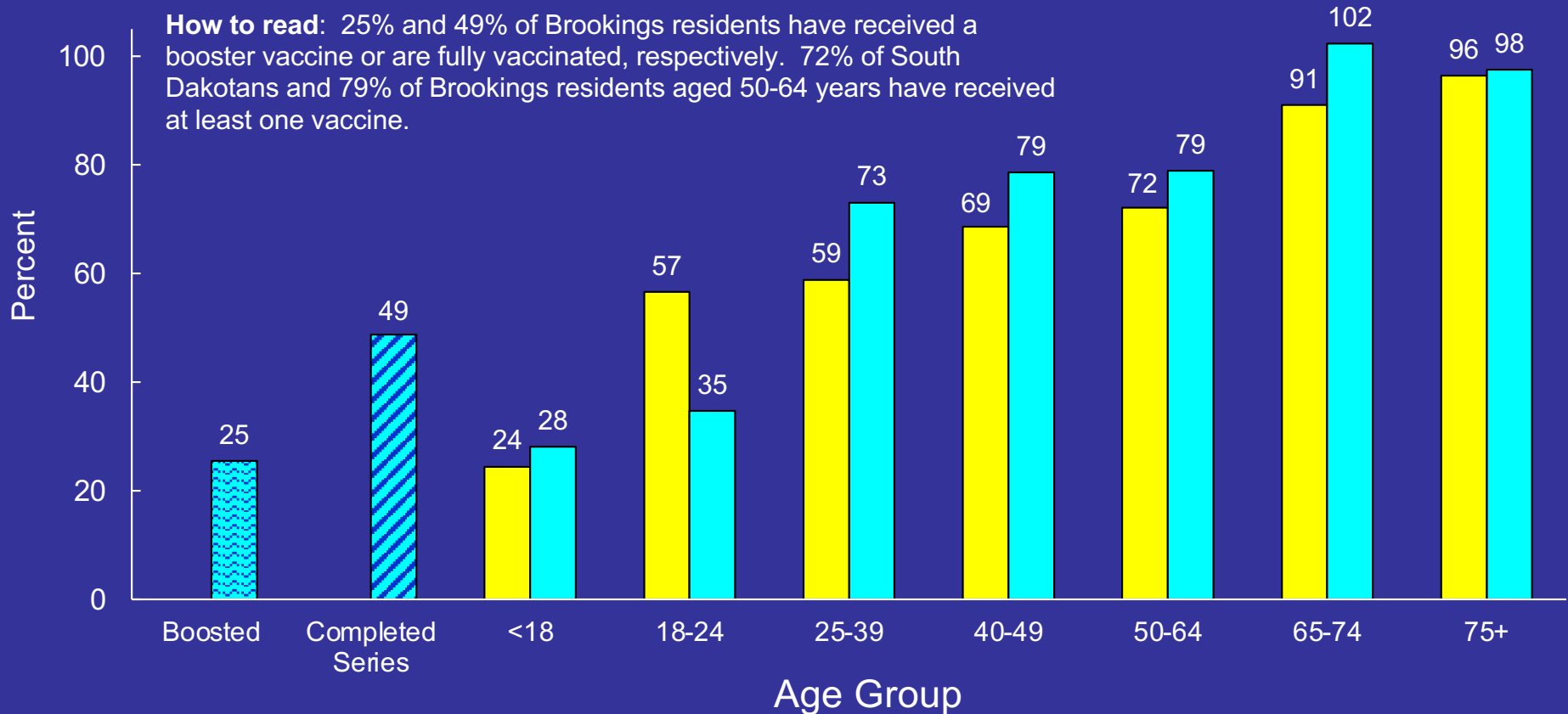


State data are from: https://doh.sd.gov/documents/COVID19/School-College_COVID_cases.pdf

South Dakota COVID-19 Situation

Percent of Population Receiving at Least One Vaccine by Age as of June 15, 2022

■ South Dakota ■ Brookings Co

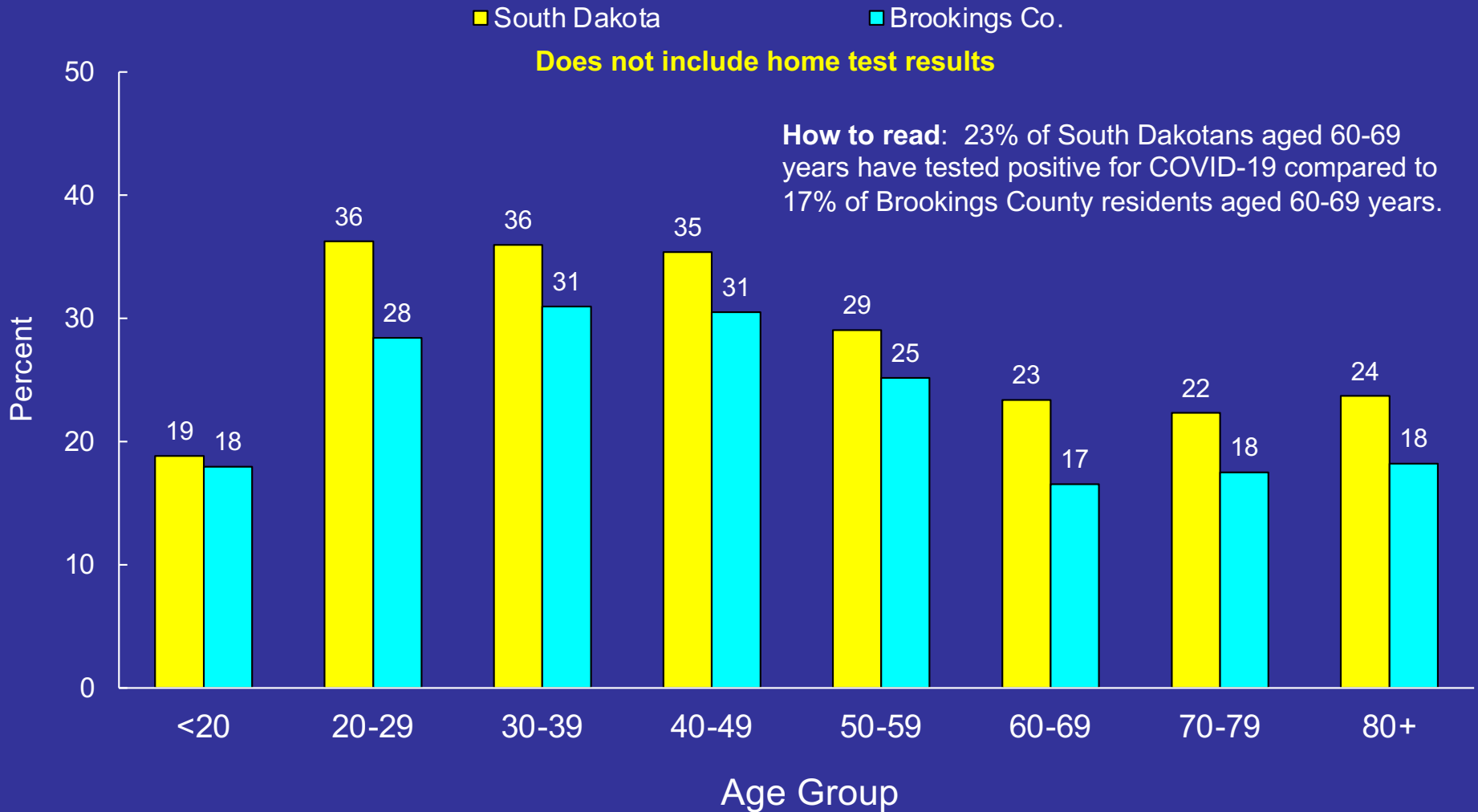


Does not include data from Veterans Affairs (VA) and Indian Health Services (IHS); 2019 US Census total population was used for the denominators.

Among the state population aged 5 years and older: 73% have received at least one dose (including VA & IHS), 60% have completed series, and 33% have received a booster.

South Dakota COVID-19 Situation

Percent of South Dakota & Brookings Population Ever Testing Positive by Age as of June 15, 2022

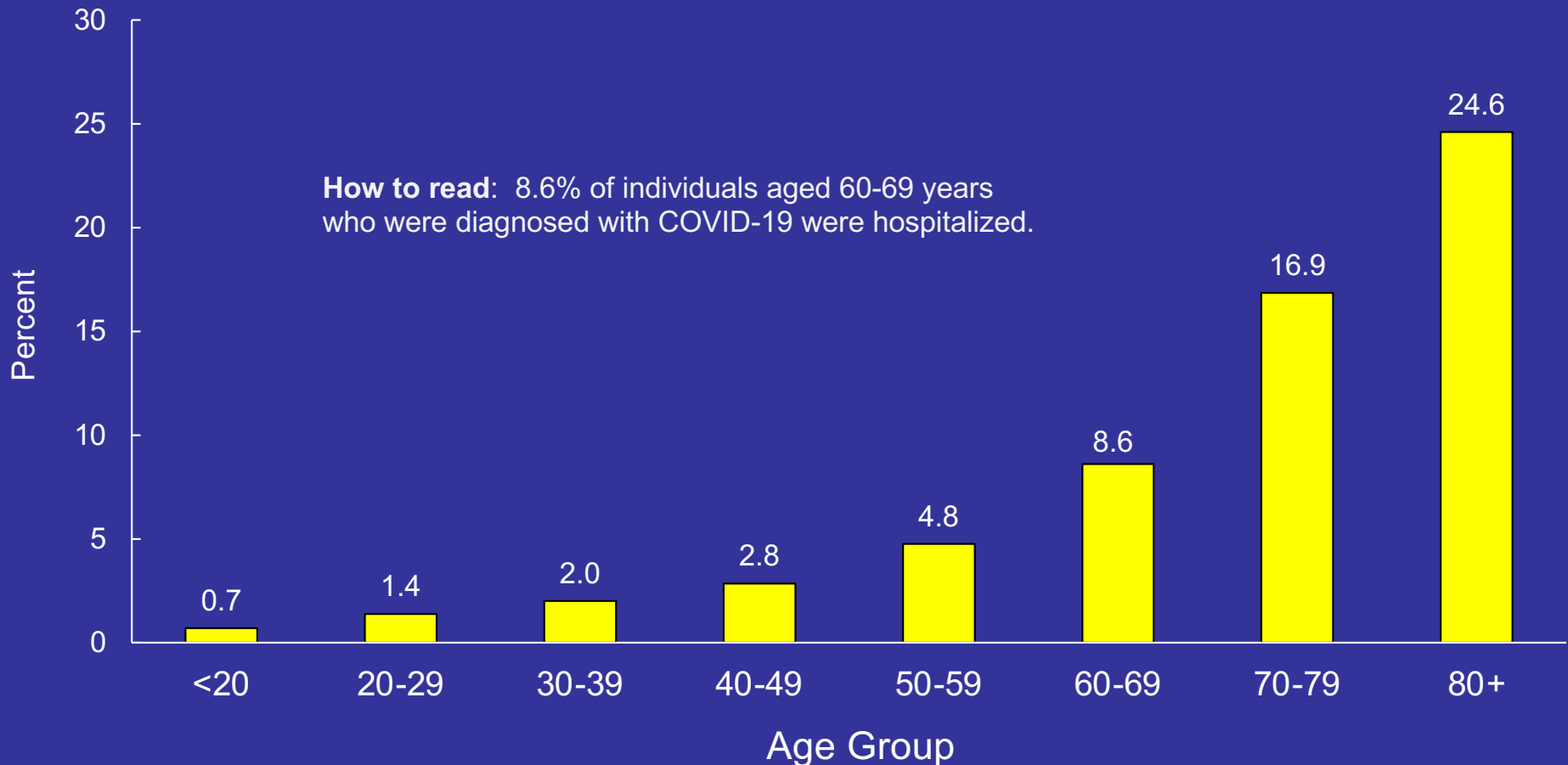


Overall, the percent of population testing positive is:
27% for South Dakota
24% for Brookings County

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

South Dakota COVID-19 Situation

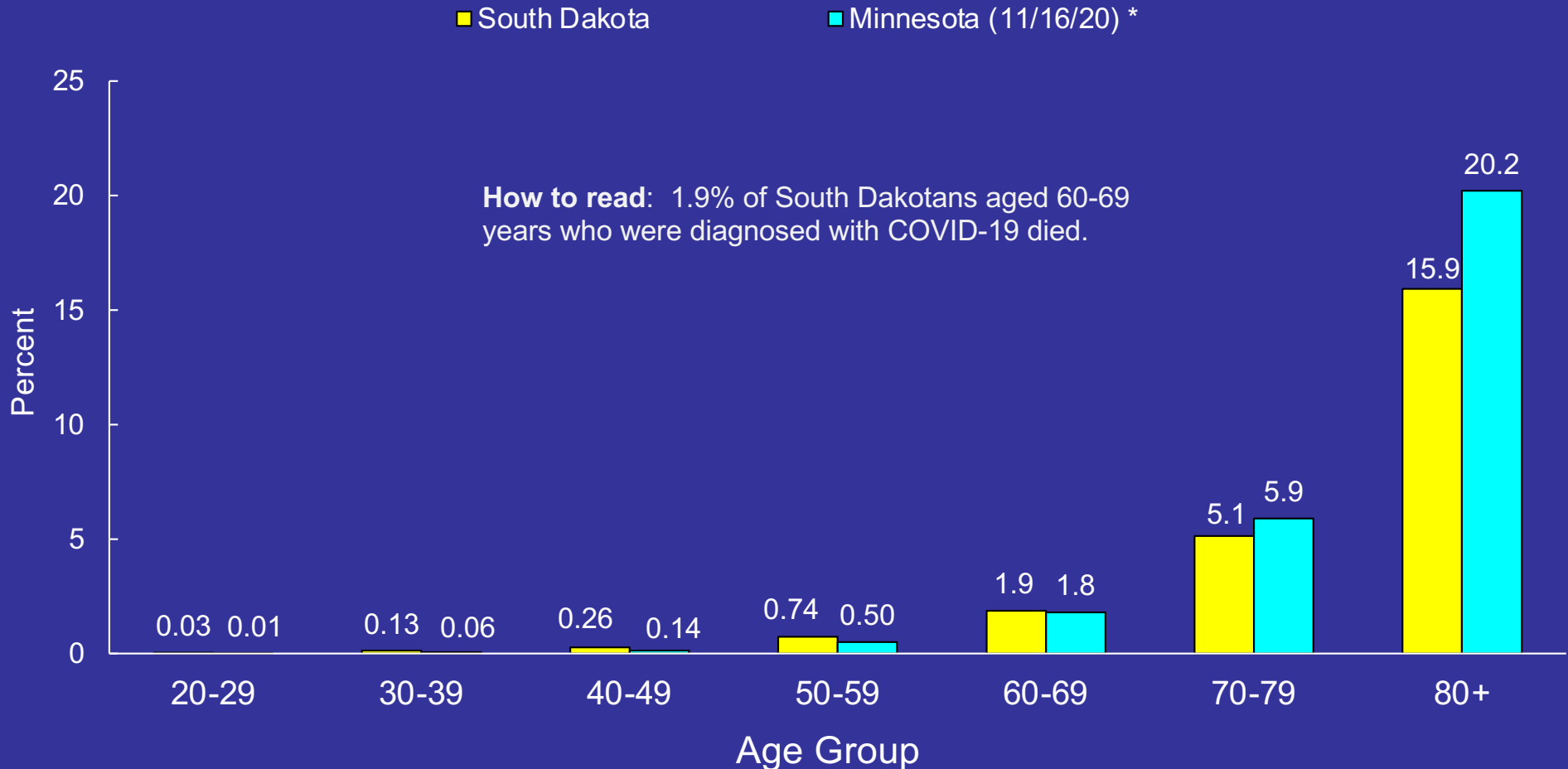
Percent of Cases Ever Hospitalized by Age
as of June 15, 2022



Overall, 4.5% 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 June 15, 2022



Overall case fatality rate for South Dakota is 1.22%.

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 <20 years (5 deaths to date, all posted after 9/16/21).

* Note that CFR in Minnesota was calculated at the end of the first year of the pandemic.

COVID-19 Situation

U.S. & World

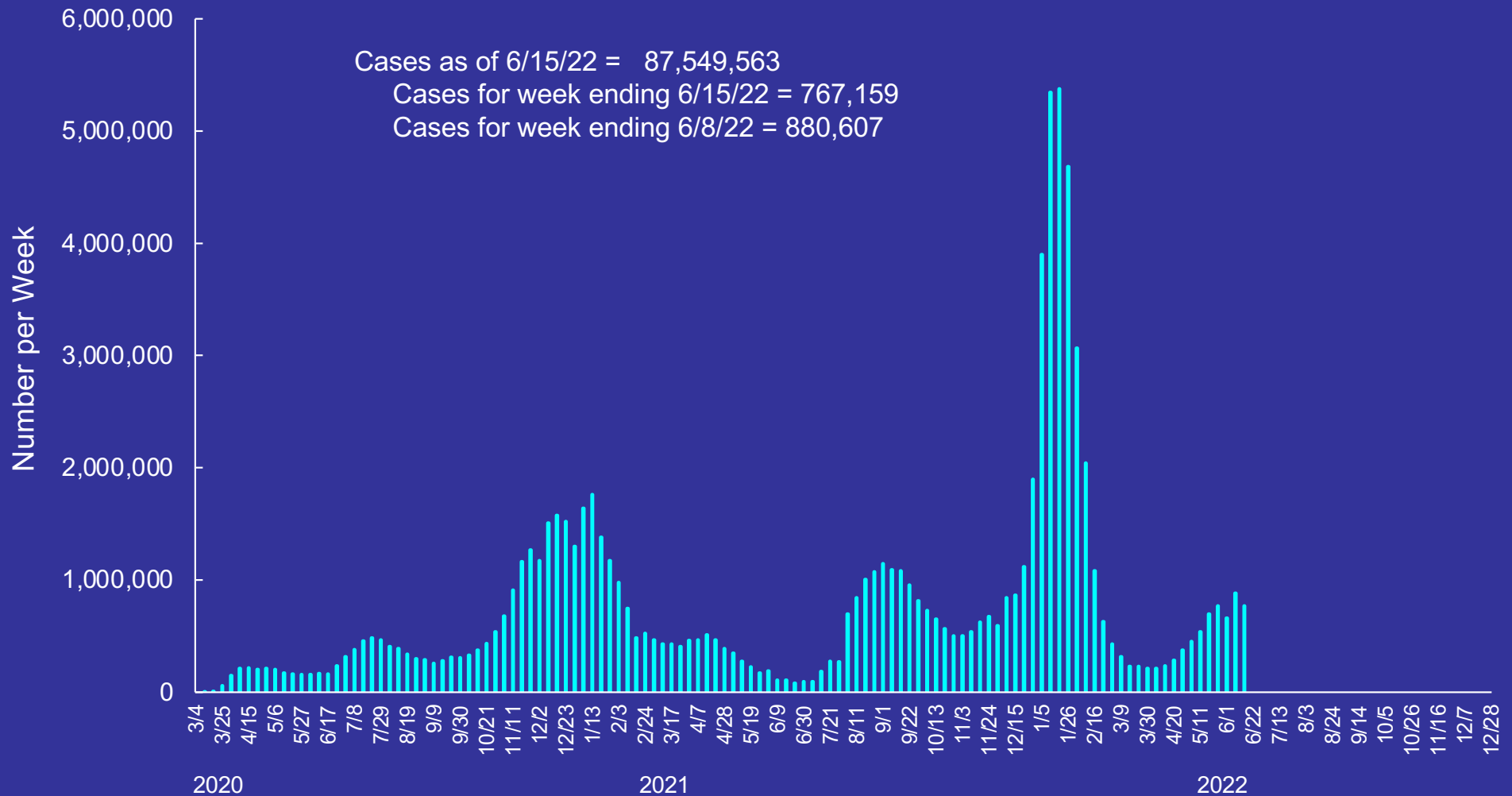
Numbers of American deaths to keep in mind:

- 7,054 in Iraq & Afghanistan
- 41,000 average annual U.S. deaths from influenza (2014-2019)
- 116,516 in World War I
- 405,399 in World War II
- 521,915 in World Wars I & II combined
- 580,135 in World Wars I & II and Vietnam War combined
- 600,135 in World Wars I & II, Vietnam & Korean Wars combined
- 675,000 in 1918 Influenza Pandemic
- 750,000 in Civil War
- **1,036,483 Current COVID-19 Pandemic (2019 – present)**

U.S. COVID-19 Situation

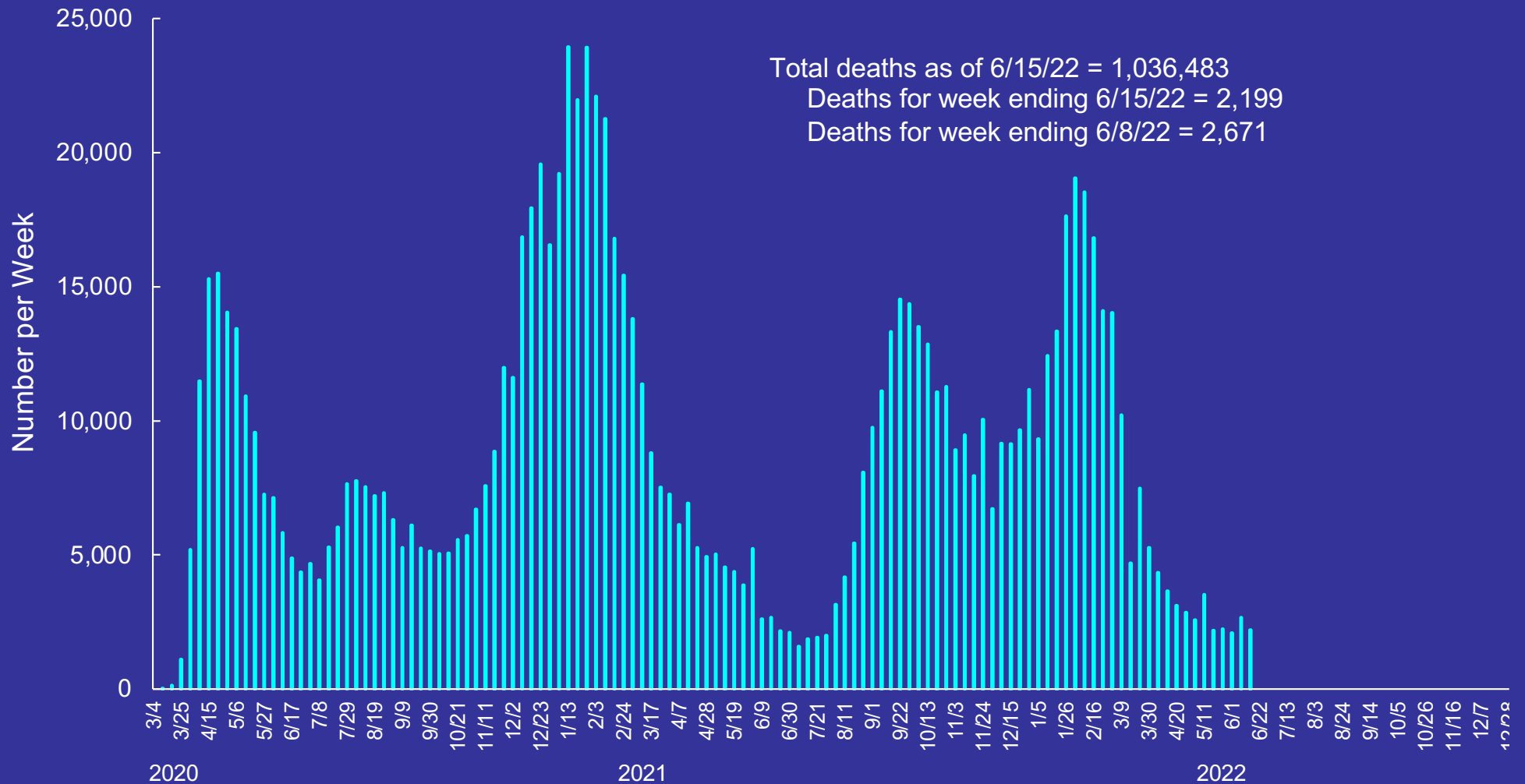
Number of Newly Diagnosed Cases per Week

Does not include home test results



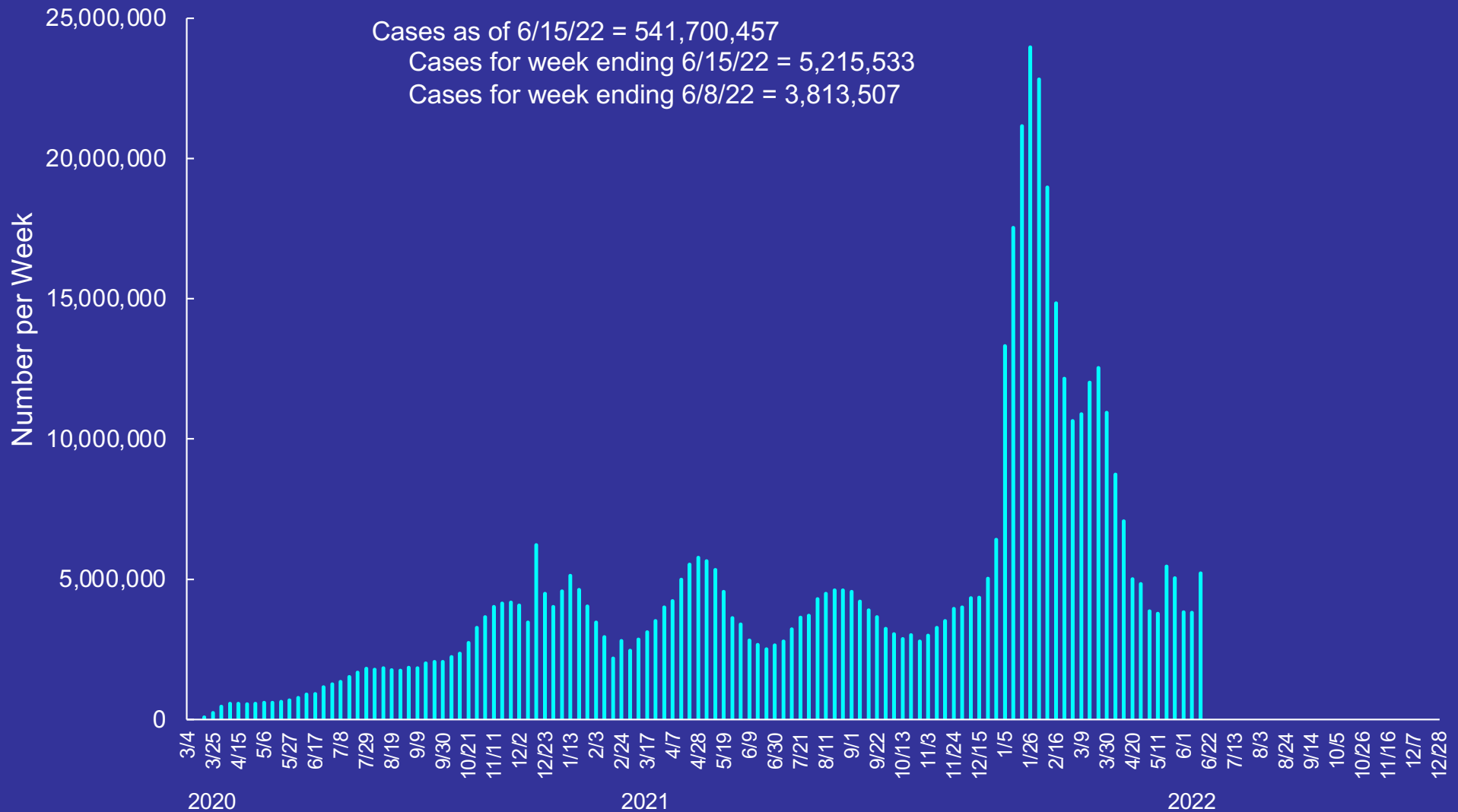
U.S. COVID-19 Situation

Number of Deaths per Week from COVID-19



World COVID-19 Situation

Number of Newly Confirmed Cases per Week



World COVID-19 Situation

Number of Deaths from COVID per Week

Data anomaly: previous
deaths updated. N=263,403

Deaths as of 6/15/22 = 6,334,136
Deaths for week ending 6/15/22 = 10,802
Deaths for week ending 6/8/22 = 9,705

