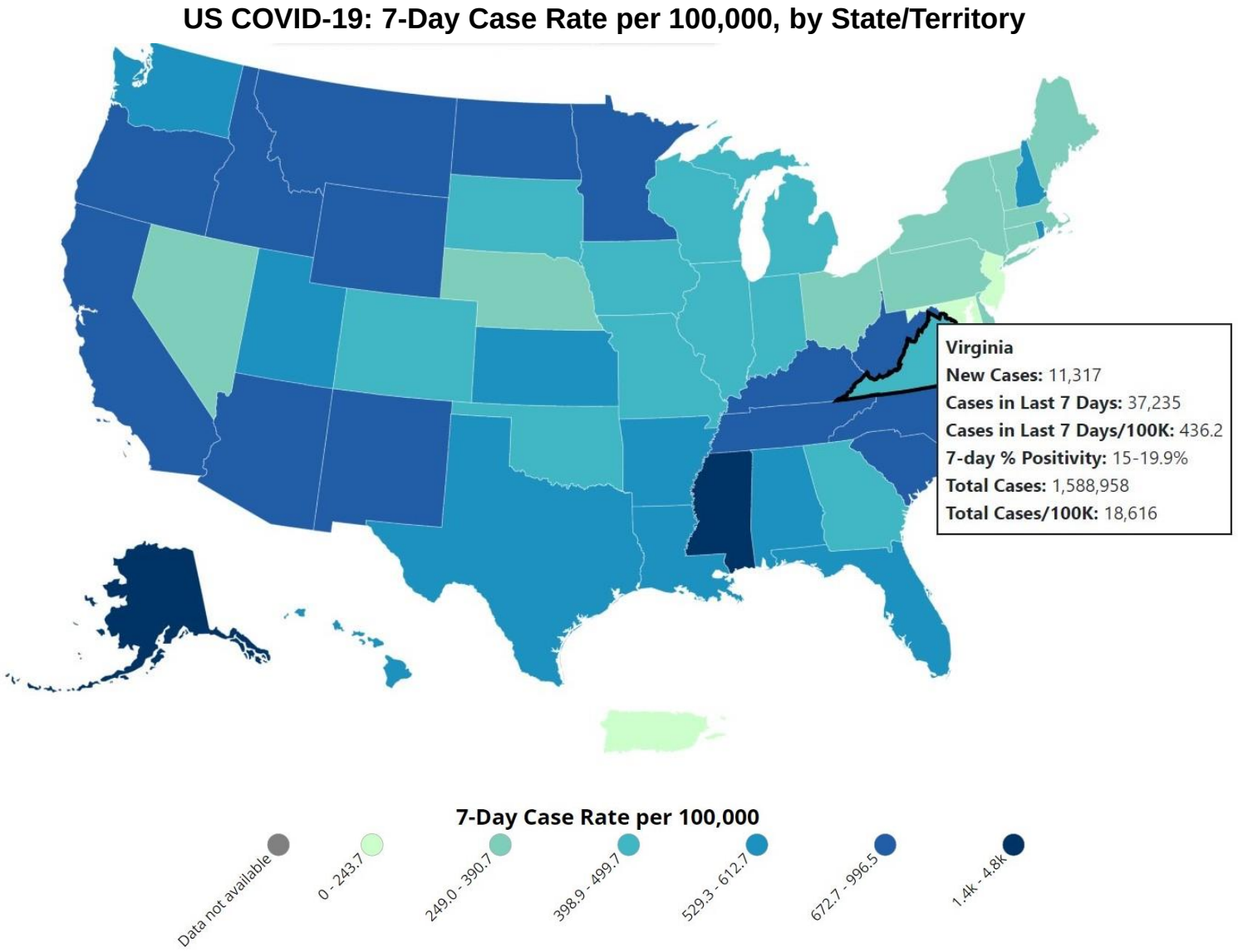
Virginia
COVID-19 Surveillance Data Update

February 10, 2022

VIRGINIA'S HEALTH IS IN OUR HANDS.
Do your part, stop the spread.

National: Weekly COVID-19 Case Rate

Updated 2/9/22



	Cases in the Last 7 Days Per 100k Population
Virginia	436.2 (-26.4%)
U.S.	521.5 (-35.7%)
Alaska	1479.6 (-23.0%)
Mississippi	1378.9 (+28.1%)
West Virginia	996.5 (-22.0%)

Our Neighbors

Rates Higher than Virginia

North Carolina, **691.4** (-39.3%)
West Virginia, **996.5** (-22.0%)
Tennessee **819.9** (-31.9%)
Kentucky, **955.5** (-16.9%)

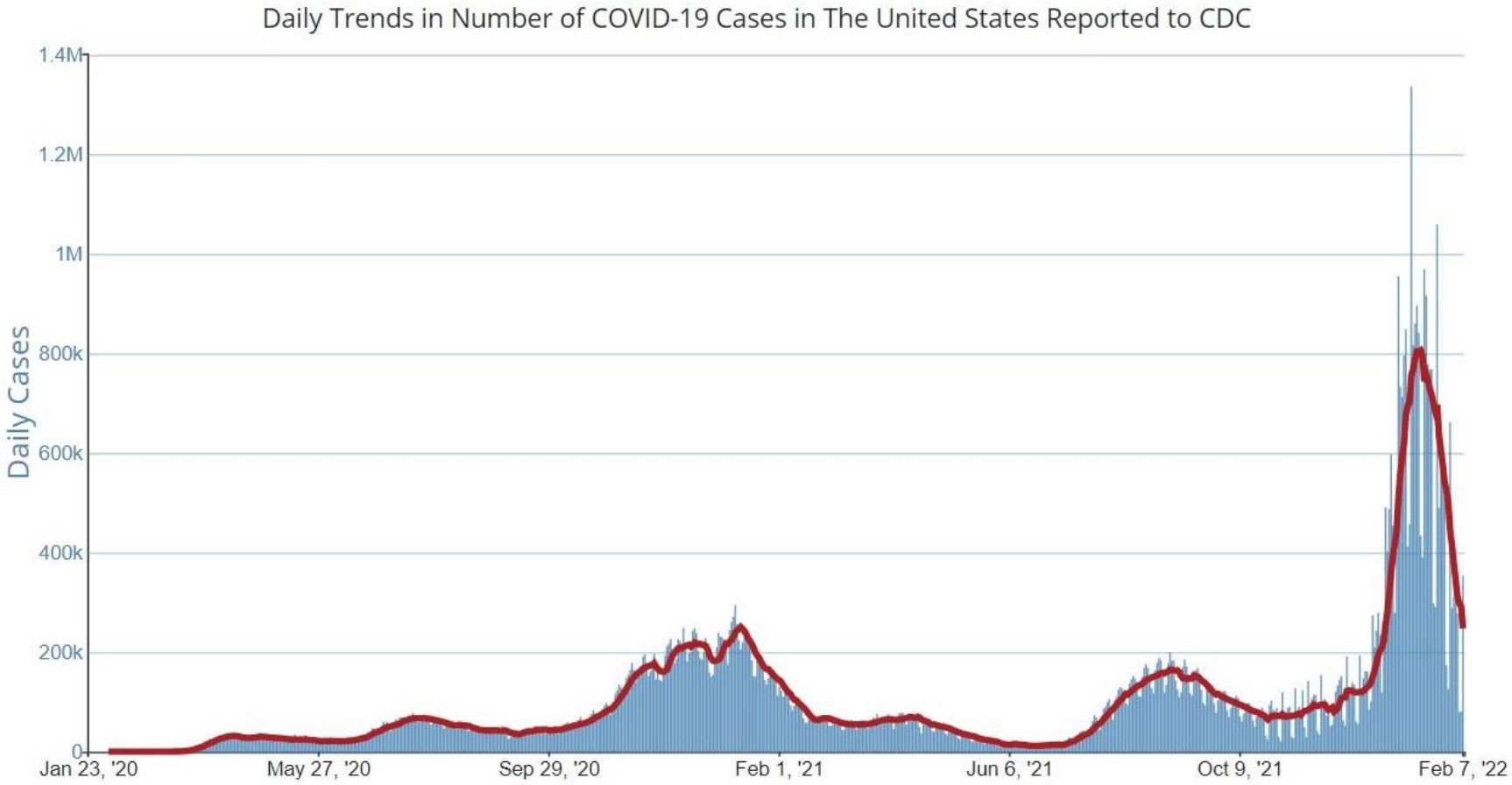
Rates Lower than Virginia:

District of Columbia, **194.0** (-15.3%)
Maryland, **166.2** (-30.8%)

Source CDC COVID Data Tracker Please note rate change comparisons are from the previous week's data.

National: Cases, Hospitalizations, and Deaths

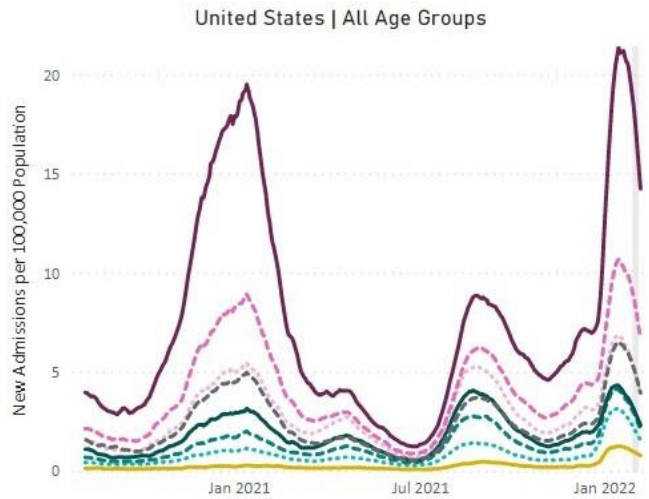
Updated 2/9/22



Compared to last week, **cases** decreased to 247,319 (7-day MA) per day (-44.4%)

Hospitalizations decreased to 13,066 (7-day MA) per day (-24.6%)

Deaths increased to 2,404 (7-day MA) per day (+2.8%)

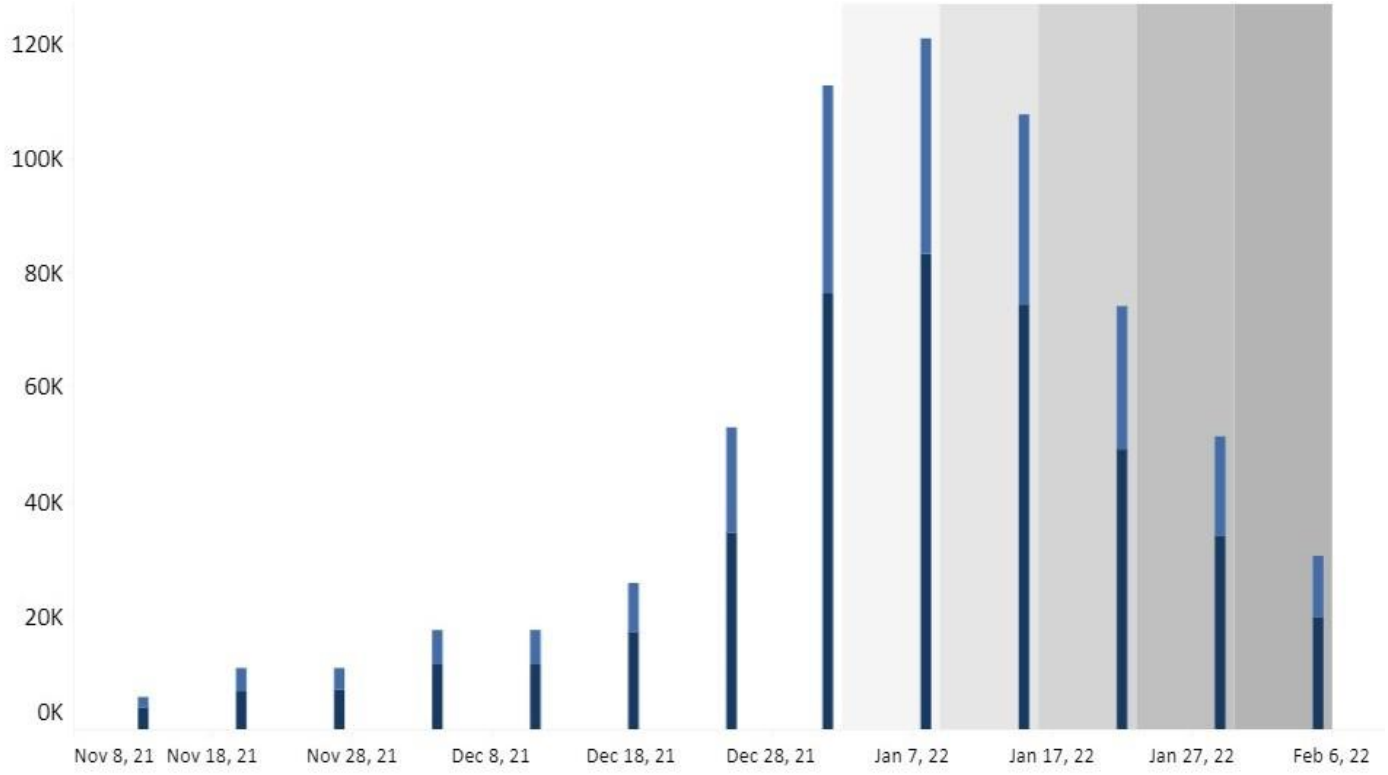


Source: CDC COVID Data Tracker

Virginia: Cases, Hospitalizations, and Deaths

Updated 2/9/22

Cases by Date of Symptom Onset, Past 13 weeks

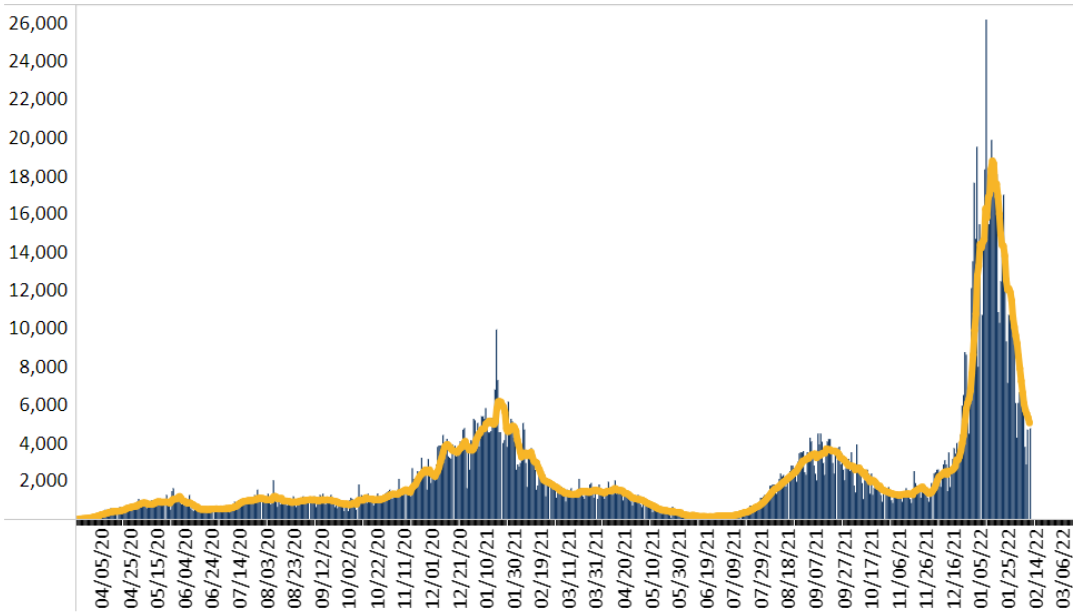


Gray shaded area illness may not have been reported yet

Compared to last week, **cases decreased** to 5,042 (7-day MA) from 7,895 per day (-36.1%)

Hospitalizations decreased to 2,329 per day (-23.7%)

Cases by Date Reported, All Reporting Timeline

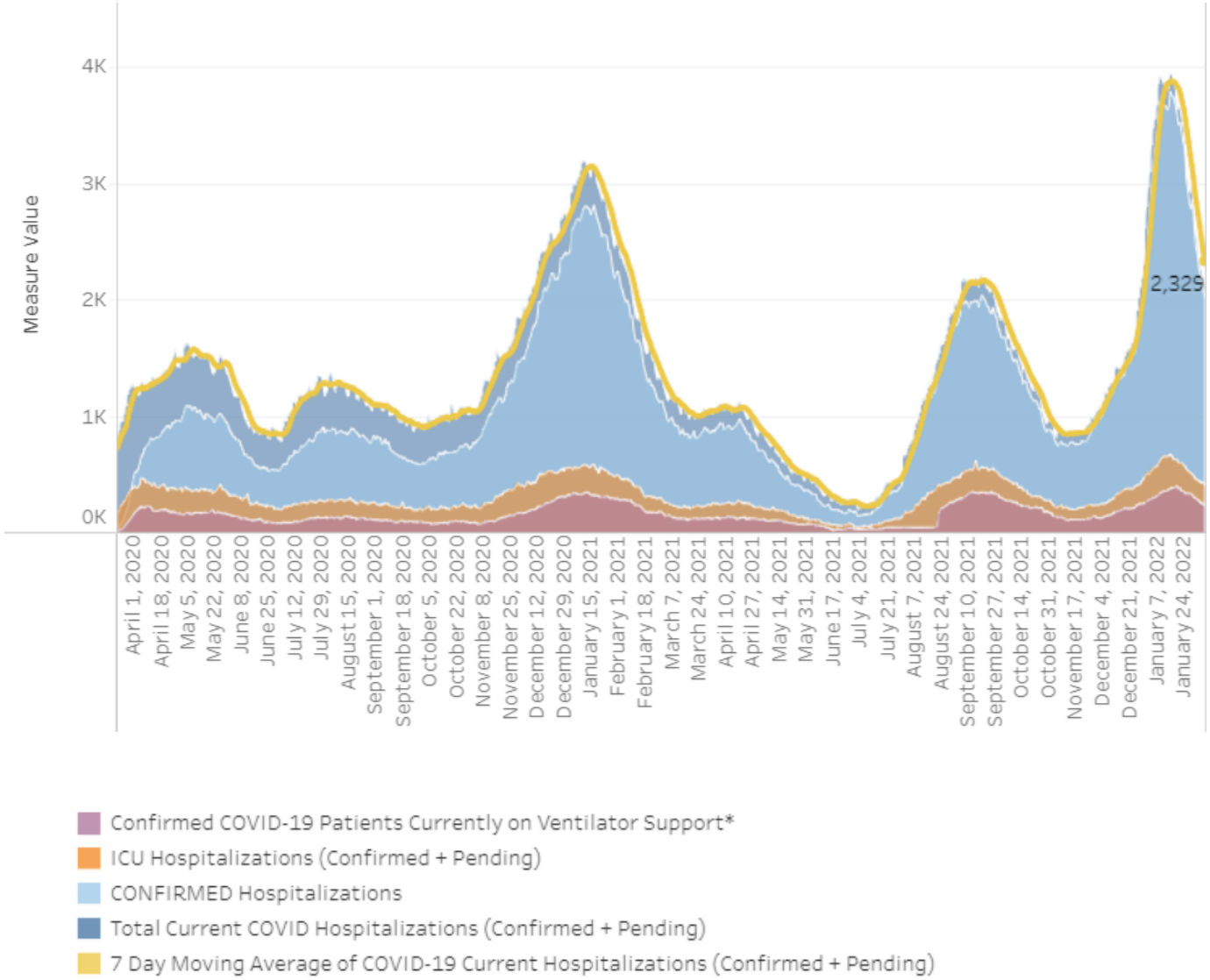


Source: Cases – Coronavirus (virginia.gov), Cases and Deaths - Coronavirus (virginia.gov), VHHA Hospitalizations – Coronavirus (virginia.gov), Data represent a 7-day moving average

Virginia Hospitalization Trends

Updated 2/9/22

COVID-19 in Virginia Hospitals



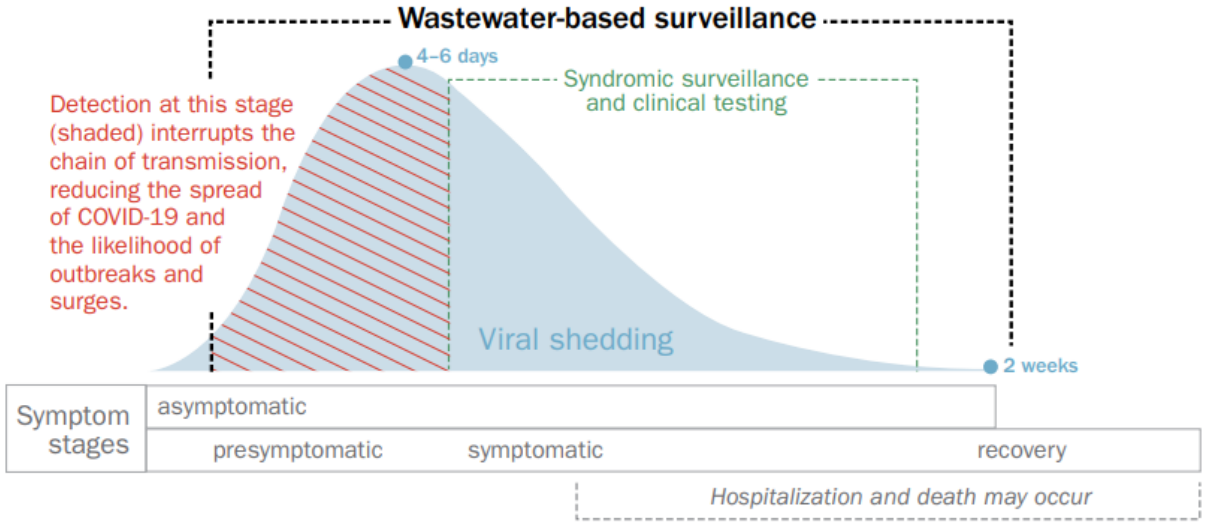
- Compared to last week hospitalizations **decreased to 2,329** (7-day MA) from 3,052 (-23.7%)
- Compared to last week. ICU hospitalizations have **decreased to 434** from 479 (-10.4%)
- 248 patients are currently on ventilator support (-18.2%)

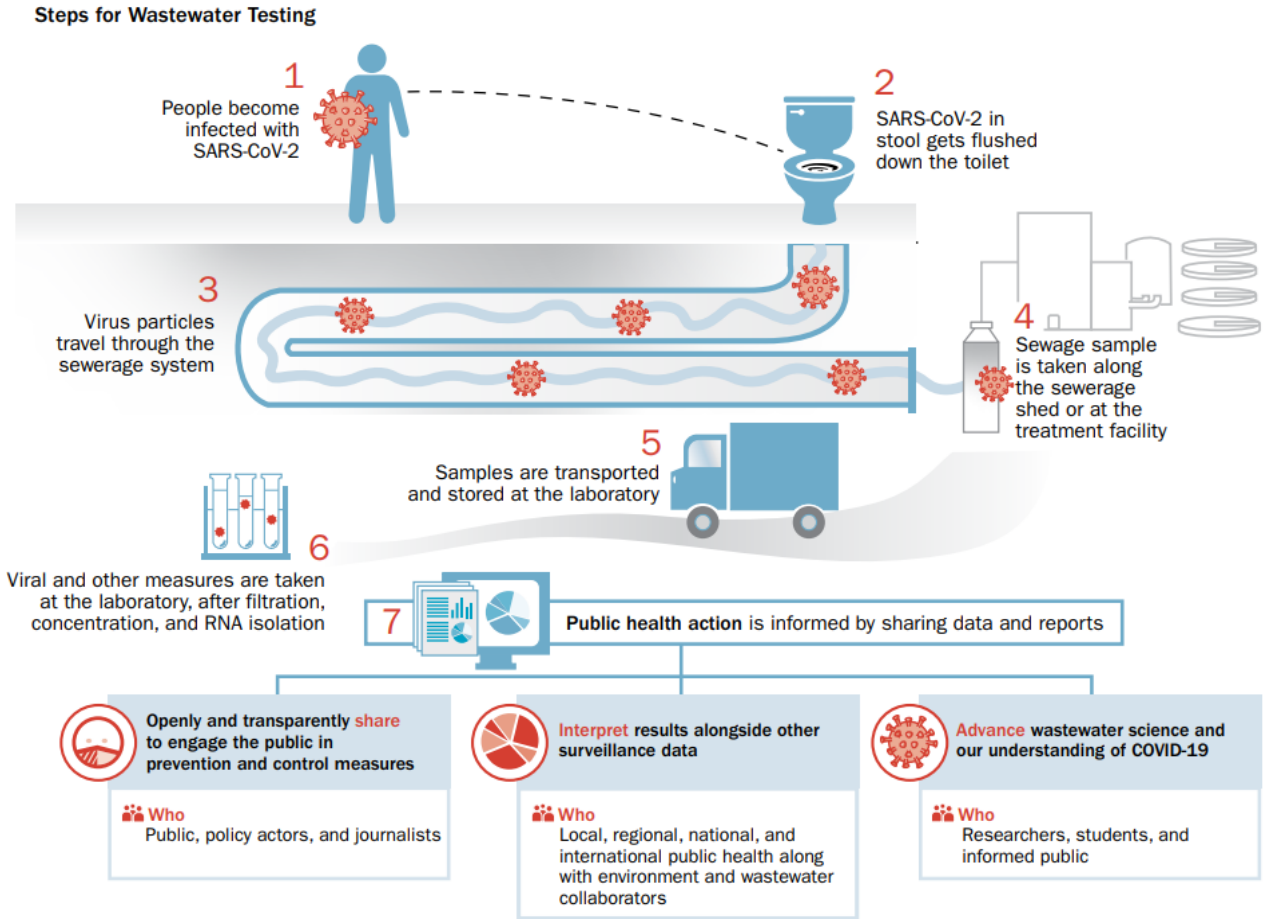
Source: VHHA Hospitalizations - Coronavirus (virginia.gov)

CDC Develops National Wastewater Surveillance System (NWSS) to understand COVID Spread

Updated 2/8/22

- Detection of SARS-CoV-2 in wastewater can be an early indicator if community infections are **increasing** or **decreasing.**
- Both **asymptomatic** and **symptomatic** individuals shed the virus in their feces.
- Viral shedding in feces is one of **first signs** of infection.
- Omicron-association mutations were documented in wastewater at least a week before the first U.S. case identified via clinical testing.





Sources: National Wastewater Surveillance System (NWSS) – a new public health tool to understand COVID-19 spread in a community | CDC, Strengthening Public Health Surveillance Through Wastewater Testing : An Essential Investment for the COVID-19 Pandemic and Future Health Threats (worldbank.org), Notes from the Field: Early Evidence of the SARS-CoV-2 B.1.1.529 (Omicron) Variant in Community Wastewater — United States, November–December 2021 | MMWR (cdc.gov);

Virginia: Regional Metric Summary

Updated 2/8/22

Metrics date: 2/6/2022

	Central	Eastern	Far Southwest	Near Southwest	Northern	Northwest
New cases per 100k within the last 7 days	489.5 ↓	370.1 ↓	1,214.0 ↓	670.1 ↓	298.0 ↓	554.3 ↓
% Positivity 7-day moving average	20.9% ↓	23.5% ↓	36.0% ↓	25.9% ↓	11.1% ↓	22.9% ↓
COVID-like ED visits rate per 100k	17.2 ↓	12.1 ↓	28.5 ↓	22.5 ↓	5.4 ↓	12.8 ↓

Burden	Level 0	Level 1	Level 2	Level 3	Level 4
New Cases	<10	10-49		50-100	>100
% Positivity	<3	3-5	5-8	8-10	>10
CLI ED Visits	<4		4-5.9		≥6

Symbol	Trend
↑	Increasing
↓	Decreasing
○	Fluctuating

Please note: the methods used this week have changed slightly; data is now compared from Sunday to Sunday instead of Wednesday to Wednesday

Source: Region Metrics – Coronavirus

*Data represents a 7-day moving average, trends compared to 1 week ago comparing end of week totals from Sunday to Sunday

COVID-19 Burden in Virginia LTCFs

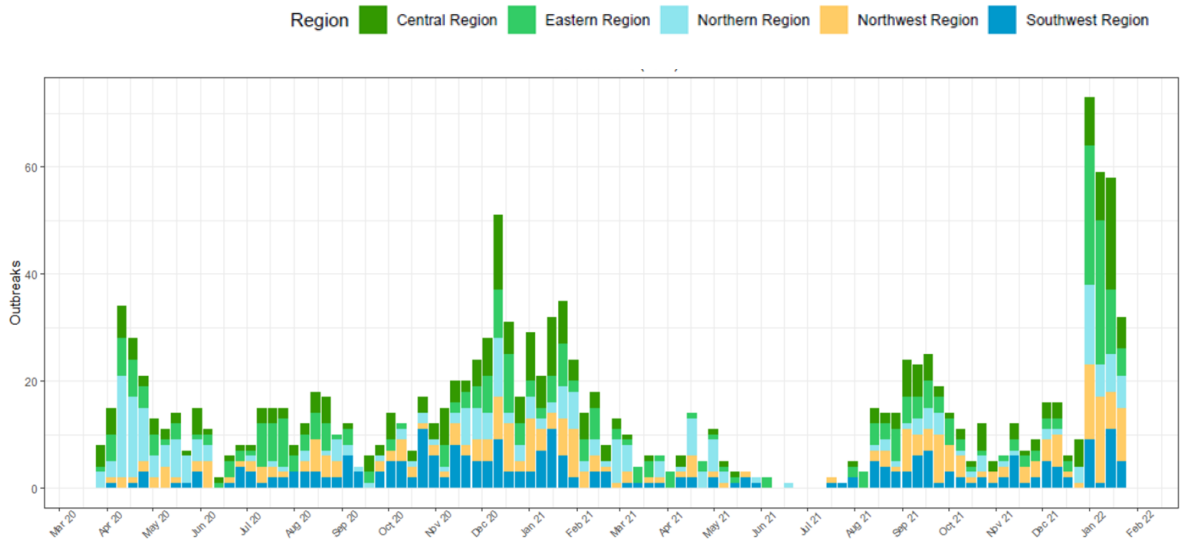
Questions can be directed to: hai@vdh.virginia.gov

Updated 02/08/2022

Key Trends

- There were **146 LTCF COVID-19 outbreaks reported in the past 30 days**: 44 in Eastern, 36 in Central, 33 in Northwest, 19 in Northern, and 14 in Southwest *(see figure top right)*.
- The number of reported staff cases has declined in the past couple of weeks. The number of reported resident cases has also continued to decline in the recent reporting weeks *(see figure bottom right)*.
  - For the reporting week ending February 6, 2022, 598 resident and 478 staff cases were reported to NHSN. Data for this reporting week are preliminary.
- For reporting week ending January 30, 2022, data reported by 282 nursing homes showed **89% of residents were fully vaccinated**; data reported by 282 nursing homes showed **92% of staff were fully vaccinated** *(see figures bottom left)*.
  - Of the nursing home residents eligible to receive an additional dose or booster, 76% have received an additional dose or booster of COVID-19 vaccine.
  - Of the nursing home healthcare personnel eligible to receive an additional dose or booster, 43% have received an additional dose or booster of COVID-19 vaccine.

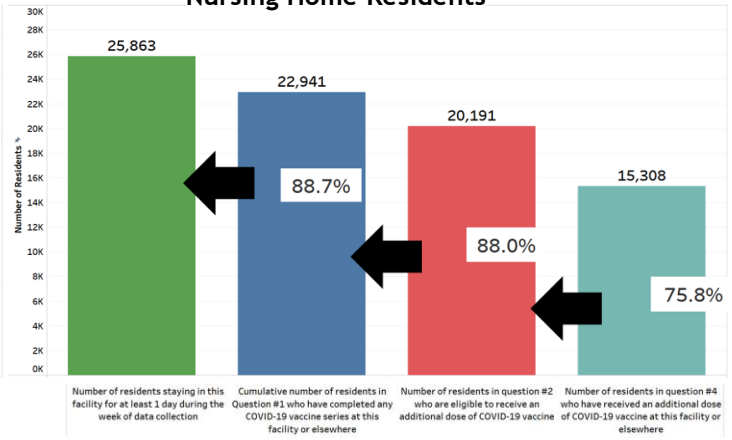
Number and Region of LTCF COVID-19 Outbreaks by Date VDH Notified



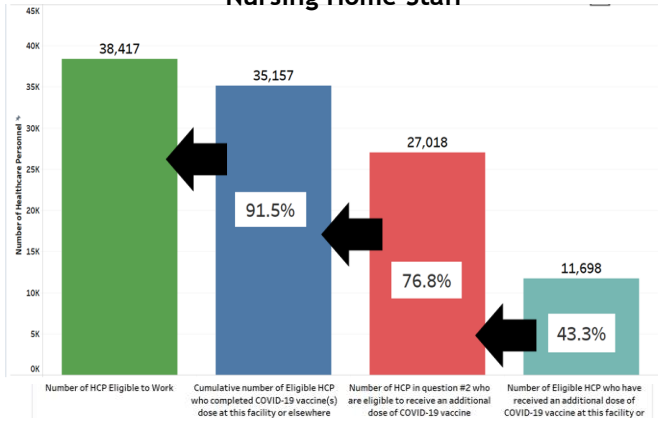
Outbreaks reported from nursing homes, assisted living facilities, and multicare facilities to VDH with a confirmed or suspected etiologic agent of SARS-CoV-2. Data are from the Virginia Outbreak Surveillance System as of 02/07/2022 and are subject to change.

COVID-19 Booster Vaccination in Virginia Nursing Homes

Nursing Home Residents

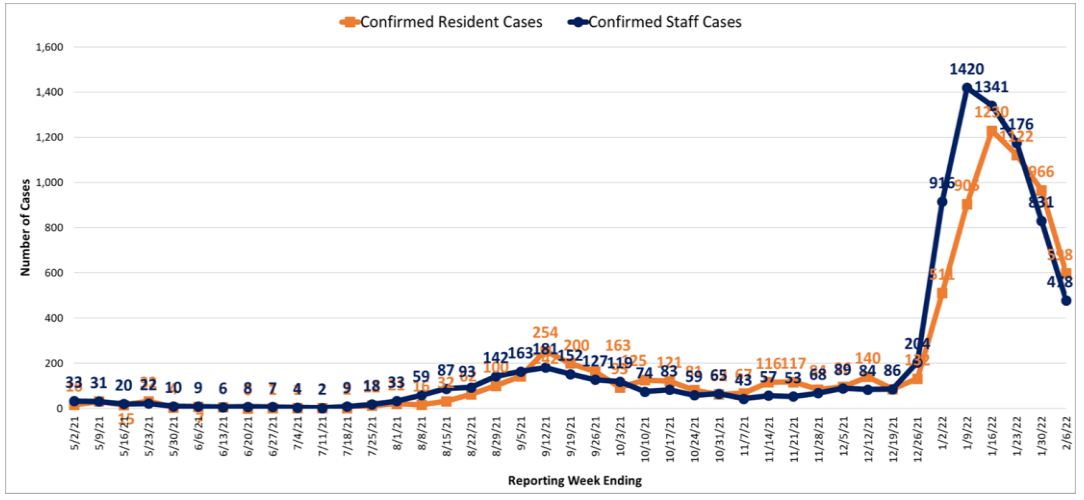


Nursing Home Staff



Data were reported by 286 Virginia nursing homes into the National Healthcare Safety Network (NHSN) as of 2/08/2022 and are subject to change, including booster eligibility per updated vaccine guidance. In Virginia, 282 nursing homes reported resident vaccination data for reporting week ending 1/30/2022; 282 nursing homes reported staff vaccination data for reporting week ending 1/30/2022. For staff type definitions, refer to NHSN Table of Instructions.

Nursing Home Resident and Staff COVID-19 Cases



Data are from NHSN as of 2/08/2022 and are subject to change. For reporting information, please refer to the NHSN data collection forms: residents, staff.

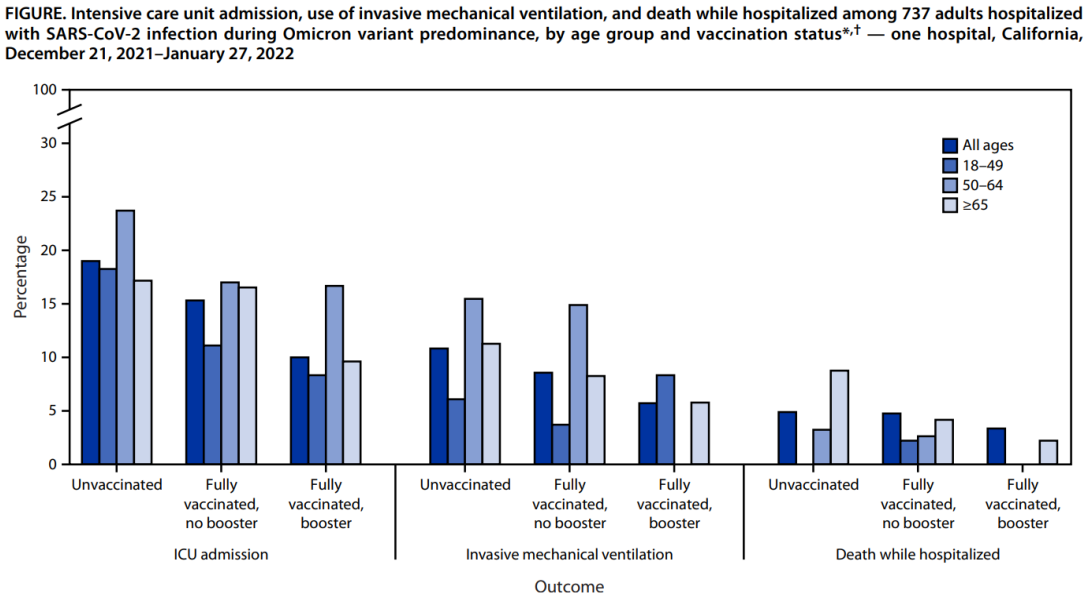
Literature Review: Mask Effectiveness and Omicron Outcomes from MMWR Reports

Updated 2/7/22

[Effectiveness of Face Mask or Respirator Use in Indoor Public Settings for Prevention of SARS-CoV-2 Infection — California, February–December 2021:](#) February 4, 2022

Summary: A test-negative case-control study analyzing the effectiveness of face coverings to prevent acquisition of SARS-CoV-2 infection.

Key Findings: Any use of face mask or respirator (N95/KN95) in indoor public settings is associated with lower odds of having a positive COVID-19 test (Odds Ratio (OR) 0.51; 95% CI = 0.29–0.93), and always using a face mask lowers the odds even more (OR 0.44; 95% CI = 0.24–0.82). **Types of masks or respirators is also associated with lower odds of having a positive COVID-19 test**: cloth masks (OR 0.44; 95% CI = 0.24–0.82), surgical masks (OR 0.34; 95% CI = 0.13–0.90), N95/KN95 respirator (OR 0.17; 95% CI = 0.05–0.64).



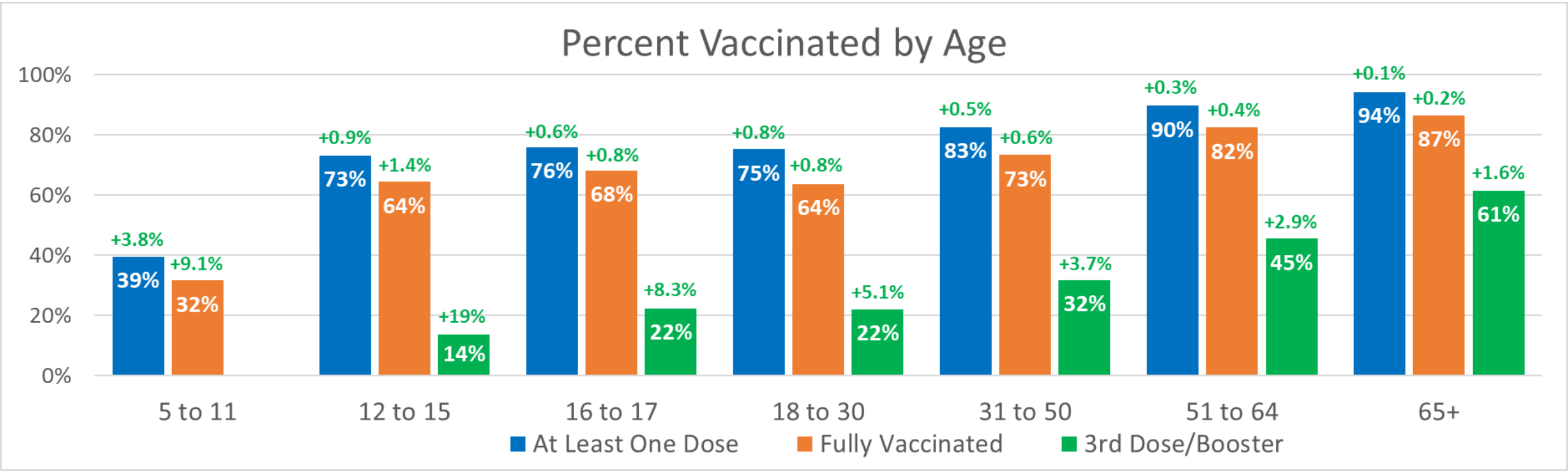
[Clinical Characteristics and Outcomes Among Adults Hospitalized with Laboratory-Confirmed SARS-CoV-2 Infection During Periods of B.1.617.2 (Delta) and B.1.1.529 (Omicron) Variant Predominance — One Hospital, California, July 15–September 23, 2021, and December 21, 2021–January 27, 2022](#): February 4, 2022

Summary: A study reviewing the clinical characteristics and outcomes from EHRs of adults aged ≥18 years admitted to one academic hospital in Los Angeles, California during Delta and Omicron time periods.

Key Findings: Among adults hospitalized with SARS-CoV-2 infection during Omicron predominance**, COVID-19 vaccination, including with a booster dose, was associated with lower likelihood of intensive care unit admission**. Compared with patients during the period of Delta predominance, **Omicron-period patients had less severe illness, largely driven by an increased proportion who were fully vaccinated**.

Virginia: Vaccination by Age Groups

Updated 2/9/22



Virginia Vaccination by Age

- ✓ **75.1%** **(+0.8%)** of the Eligible (5+) Population and **70.7%** **(+3.8%)** of the Total Population are Fully Vaccinated
- ✓ **56.2%** **(+1.0%)** of the Eligible Population and **37.0%** **(+3.4%)** of Total Population Vaccinated with 3rd Dose/Booster
- ✓ **39.3%** **(+4.5%)** of the Total Population is "Up-to-Date" with their Vaccinations
- ✓ **90.2%** **(+0.4%)** of the Adult (18+) Population and **55.7%** **(+1.9%)** of 5 to 17 year olds Vaccinated with at Least One Dose
- Green percent represents percent increase from two weeks prior

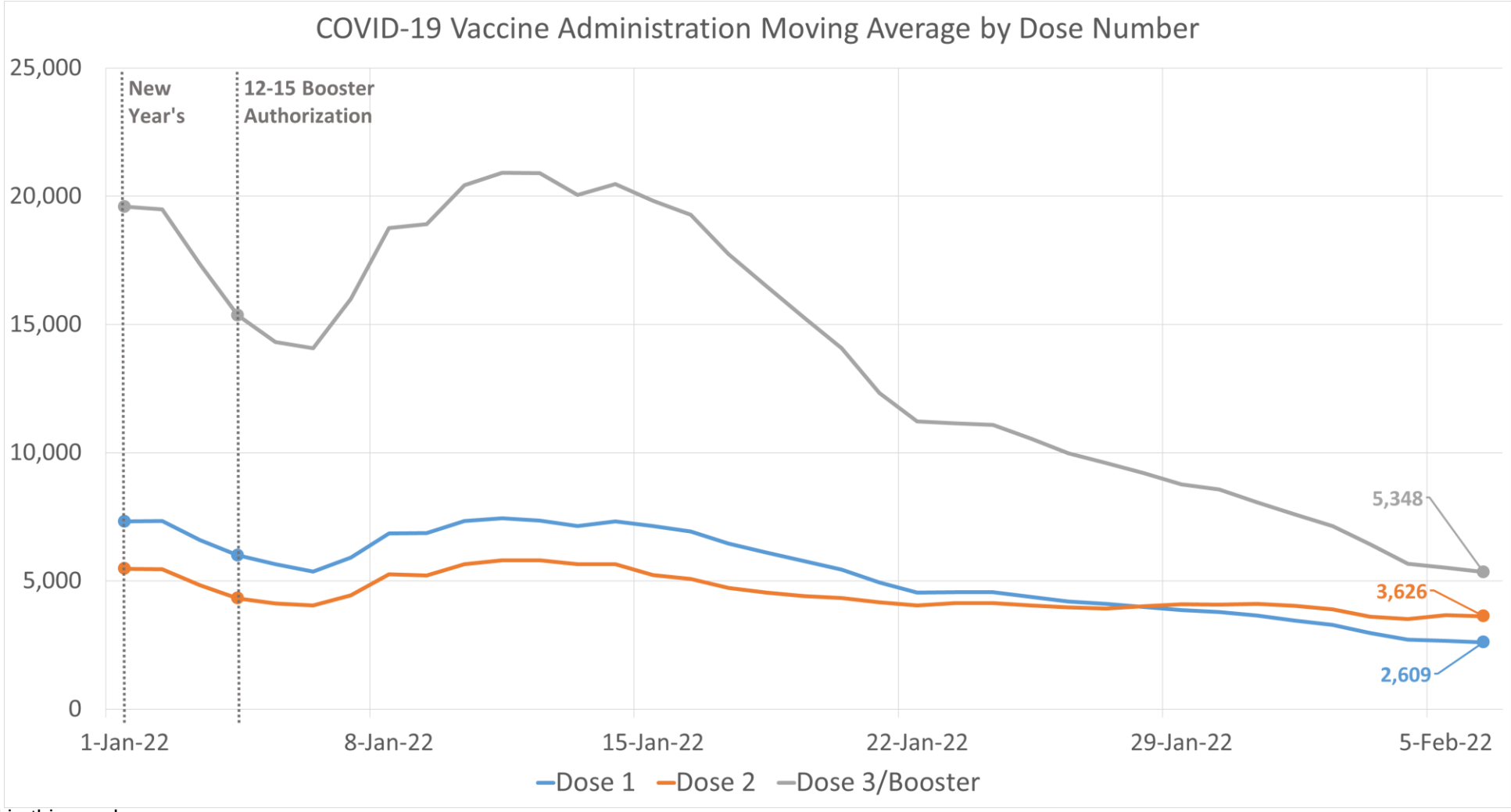
Source: COVID-19 in Virginia: Vaccine Summary, Keep Virginia Safe Tournament | Metaculus

Virginia: Vaccine Demand by Dose Number

Updated 2/9/22

First Dose, Second Dose, and Booster Administrations Have Decreased

- Over the past 4 weeks, Third Dose/Booster Administrations have decreased by over 70%
- First and Second Dose Administrations have plateaued at an all-time-low

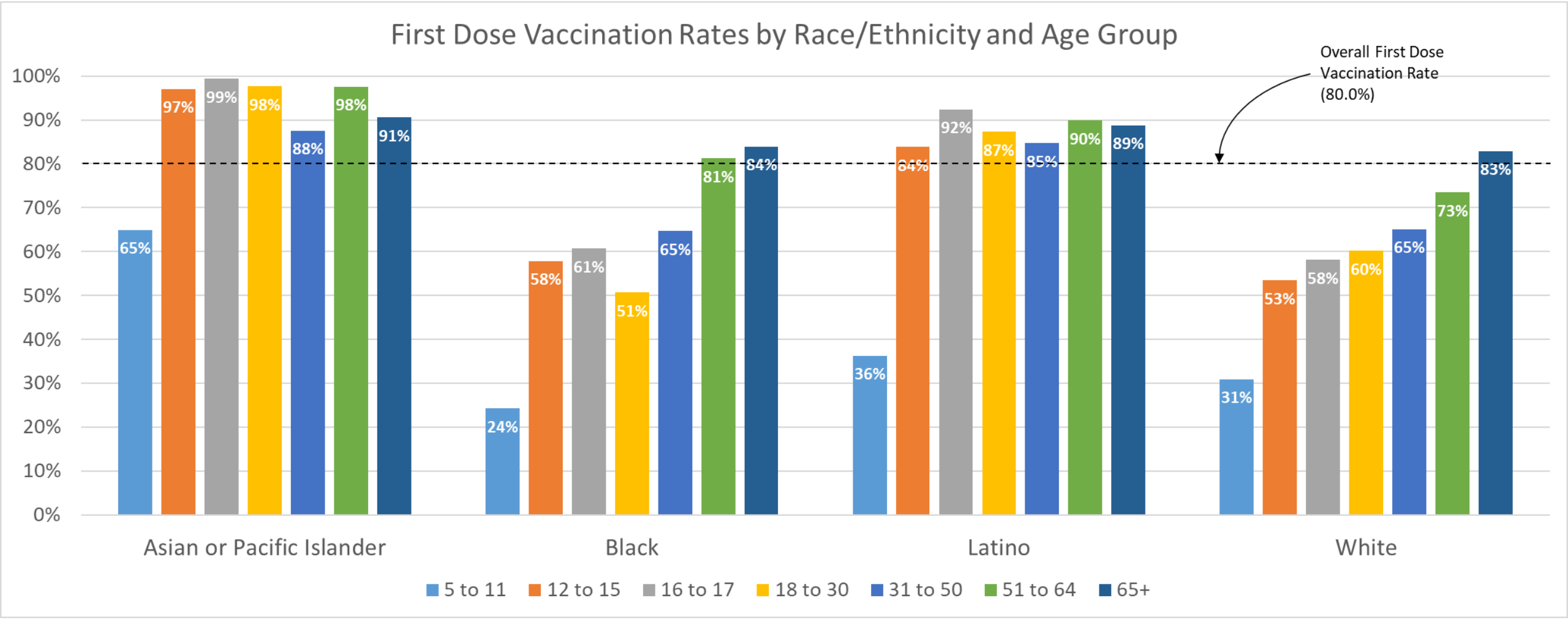


Federal doses not included in this number

Source: [COVID-19 Vaccine Summary – Coronavirus (virginia.gov)]

Virginia: Vaccination by Race/Ethnicity and Age

Updated 2/9/22

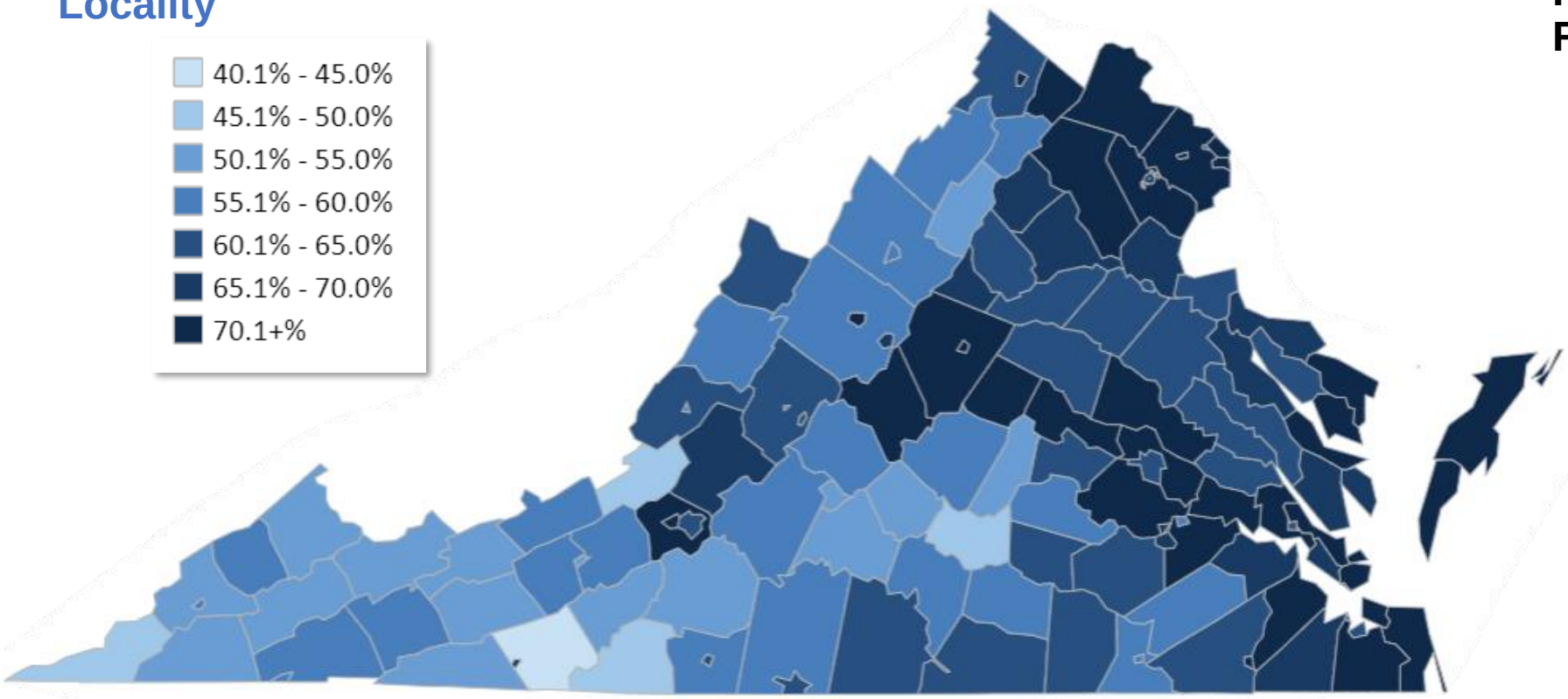


Source: [COVID-19 Vaccine Summary – Coronavirus (virginia.gov)]

Virginia: Vaccination across the Commonwealth by Geography

Updated 2/9/22

Percent of the Total Population with at Least One Dose by Locality



2013 SRHP Isserman Classification	5 to 11	12 to 17	16 to 17	18 to 30	31 to 50	51 to 64	65+	Grand Total
Mixed Urban	43%	73%	78%	74%	74%	85%	93%	76%
Urban	40%	75%	81%	68%	78%	87%	91%	76%
Mixed Rural	27%	53%	59%	59%	64%	75%	85%	66%
Rural	19%	44%	51%	52%	58%	71%	82%	62%
Grand Total	**36%**	**67%**	**73%**	**65%**	**73%**	**82%**	**88%**	**72%**

First Dose Vaccination Rate by Region for Total Population

Region Name	1st Dose Vaccination
Central	68.7%
Eastern	73.0%
Northern	83.1%
Northwest	65.8%
Southwest	57.6%

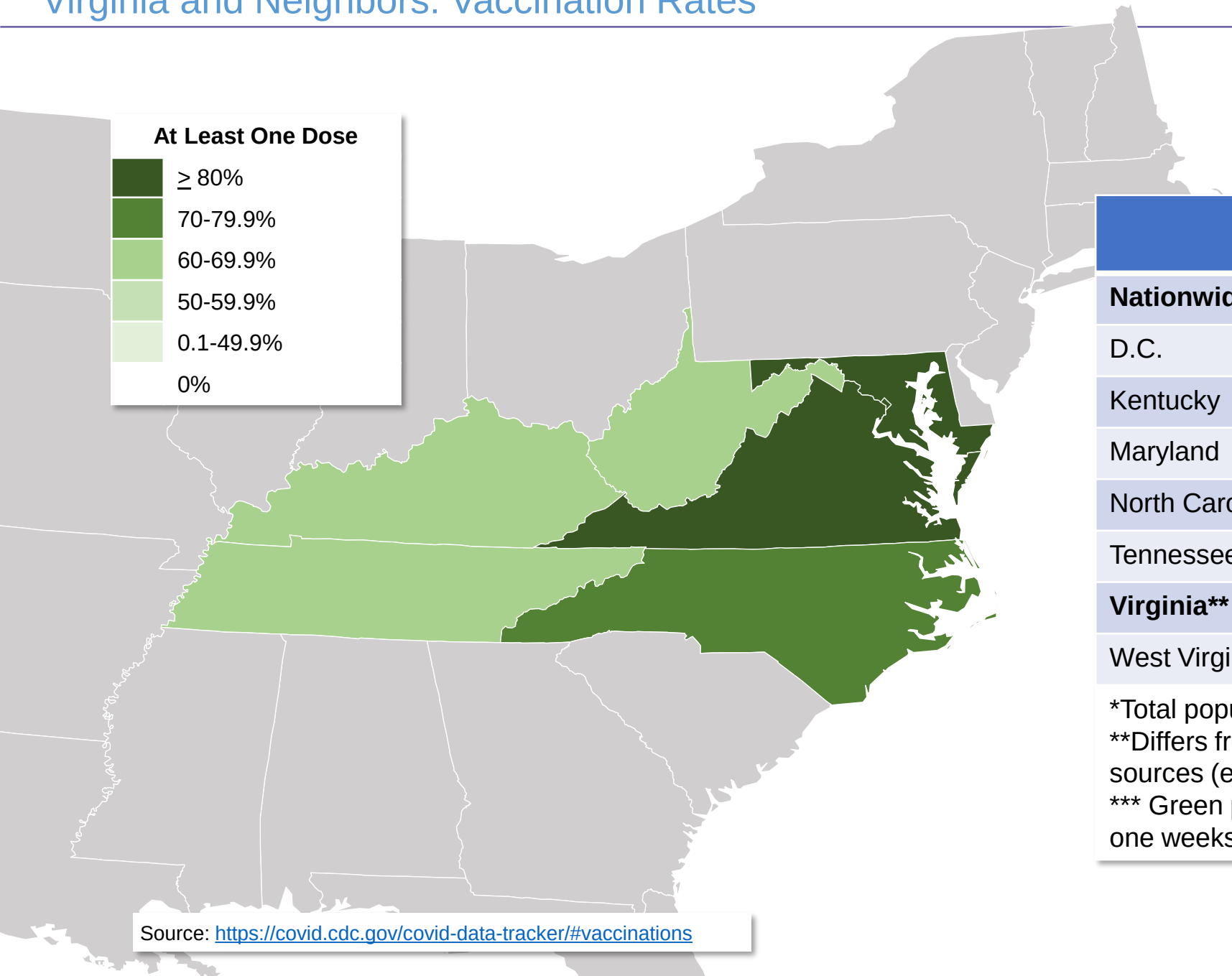
- 5 out of 133 Localities have a first dose vaccination rate below 50%
- 38 out of 133 Localities have a first dose vaccination rate above 70%
- There is a disparity across Urban and Rural areas by Age Groups, with Rural Adolescents the Lowest Vaccinated group

Federal doses not included in this number

Source: COVID-19 Vaccine Summary – Coronavirus (virginia.gov)

Virginia and Neighbors: Vaccination Rates

Updated 2/2/22



	At Least One Dose*	Fully Vaccinated*
Nationwide	**75.4% (+0.4%)**	**63.8% (+1.3%)**
D.C.	93.3% (+2.2%)	70.1% (+1.9%)
Kentucky	64.7% (+1.7%)	55.7% (+1.3%)
Maryland	83.7% (+1.6%)	72.7% (+1.4%)
North Carolina	80.9% (+2.1%)	58.5% (+1.6%)
Tennessee	60.7% (+1.7%)	52.8% (+1.5%)
Virginia**	**83.2% (+3.0%)**	**70.6% (+2.3%)**
West Virginia	63.6% (+1.3%)	56.2% (+1.1%)

*Total population, includes out-of-state vaccinations
**Differs from previous slide because all vaccination sources (e.g., federal) are included
*** Green percent represents percent increase from one weeks prior

Source: https://covid.cdc.gov/covid-data-tracker/#vaccinations