Virginia COVID-19 Surveillance Data Update

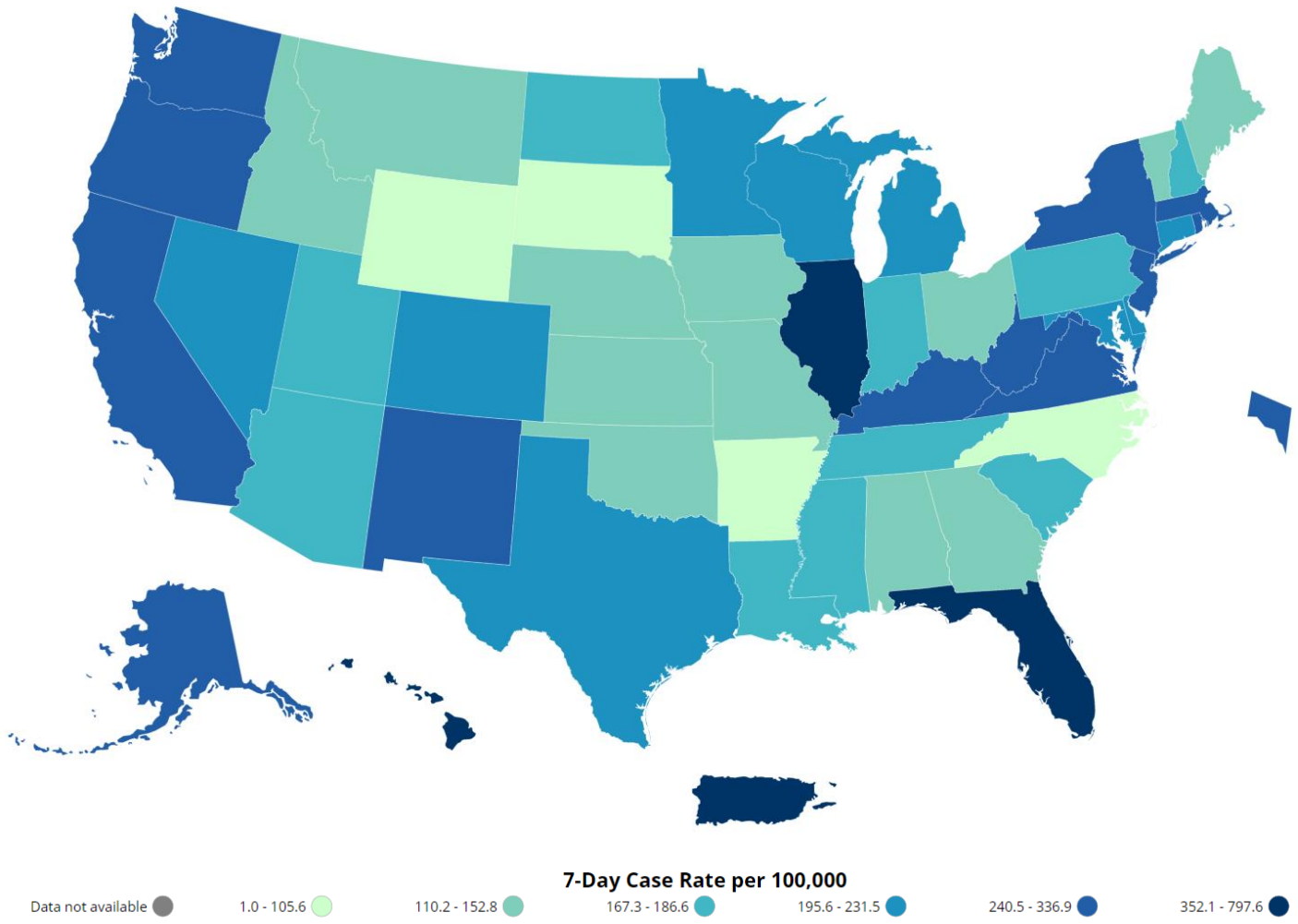
June 9, 2022

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

National: Weekly COVID-19 Case Rate

Updated 6/6/22

US COVID-19 7-Day Case Rate per 100,000, by State/Territory



US and Virginia	
United States	205.8 (-8.1%)
Virginia	233.7 (-10.1%)

Virginia's Neighboring States	
Rates Lower than Virginia	
West Virginia	229.2 (-12.5%)
Maryland	209.1 (-18.0%)
District of Columbia	193.7 (-43.7%)
Kentucky	192.1 (+60.1%)
Tennessee	156.9 (+1.8%)
North Carolina	113.5 (-56.8%)

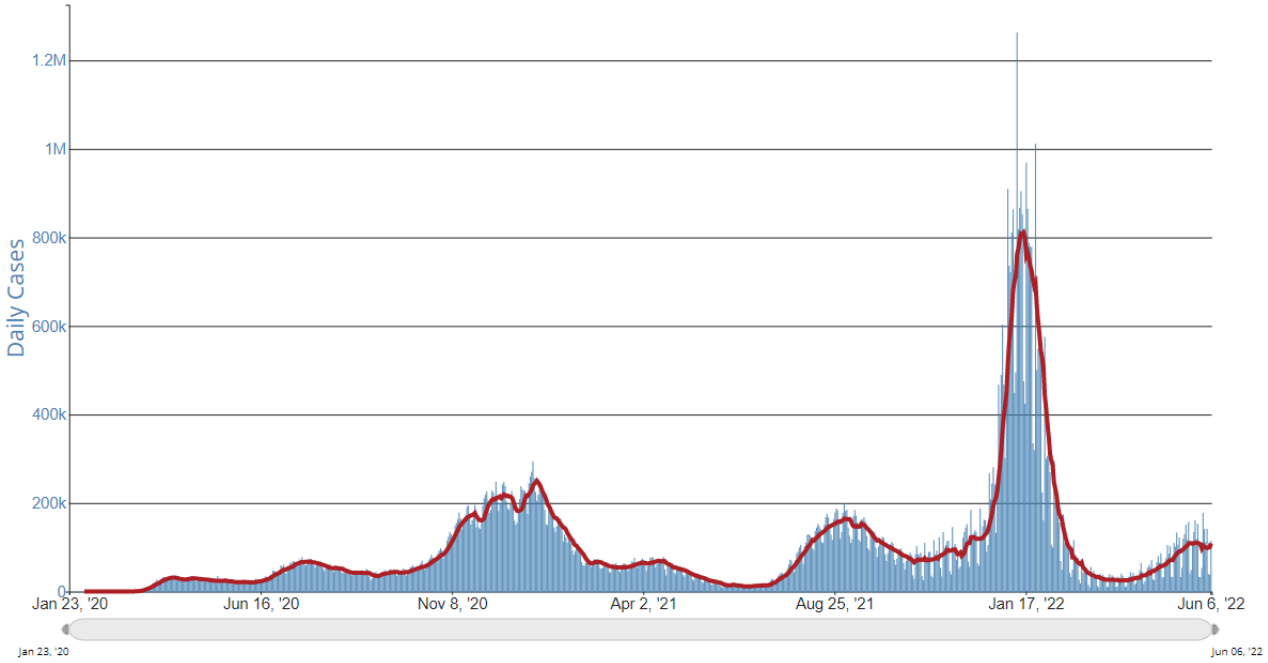
States with the Highest Case Rates	
Hawaii	567.1 (-9.0%)
Florida	333.7 (+4.3%)
Rhode Island	302.4 (-18.9%)

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

National: Cases, Hospitalizations, and Deaths

Updated 6/6/22

Daily Trends in Number of COVID-19 Cases, United States

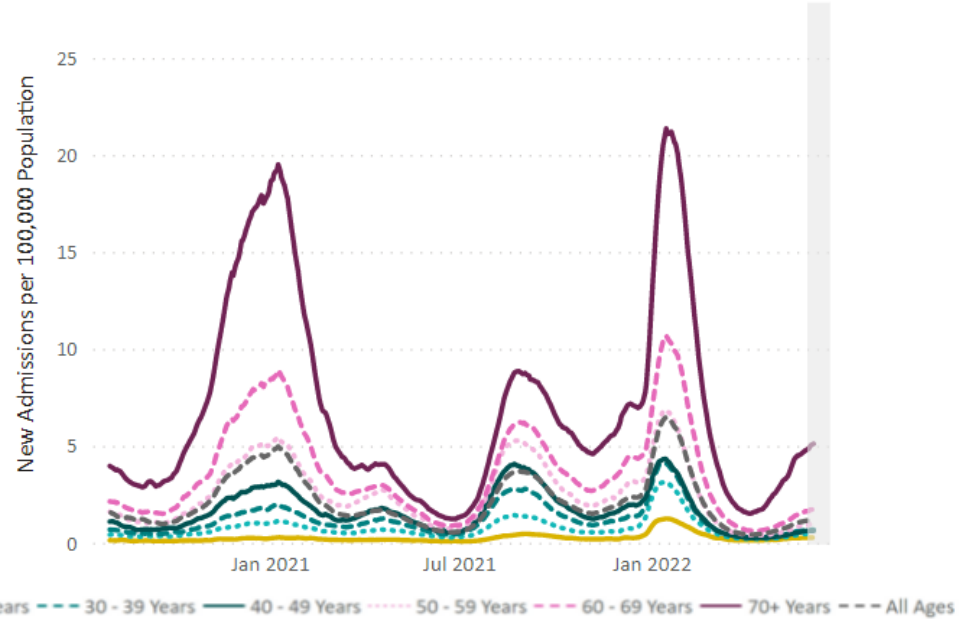


* Compared to last week:

- **Cases decreased** to 100,128 per day (-5.9%)
- **Hospitalizations increased** to 3,685 per day (+2.4%)

  Deaths decreased to 247 per day (-24.0%)

New Admissions of Patients with COVID-19, United States, By Age Group

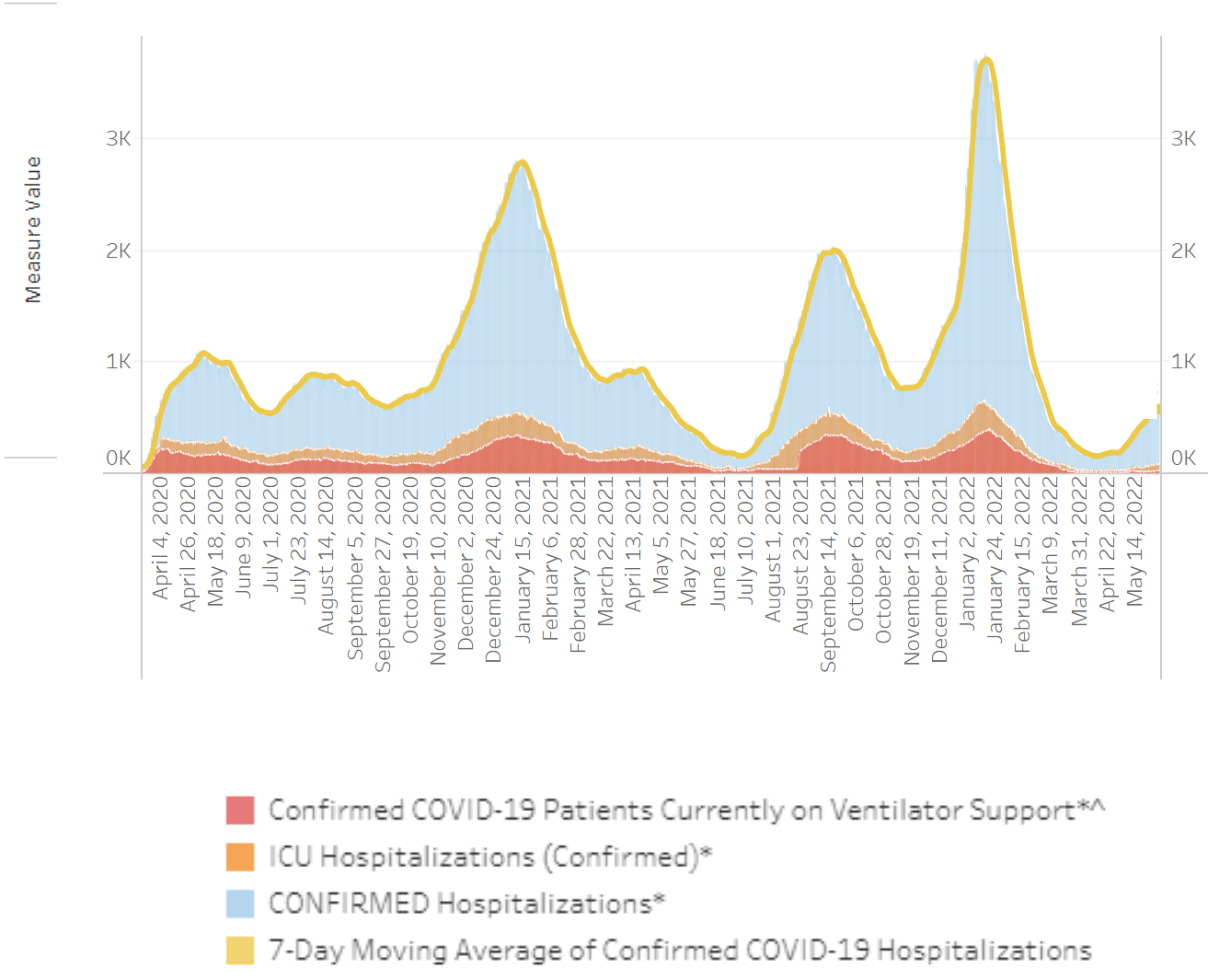


Source: CDC COVID Data Tracker, *Data comparisons: Sunday-Sunday, All data represents a 7-day moving average

Virginia: Cases, Hospitalizations, and Deaths

Updated 6/6/22

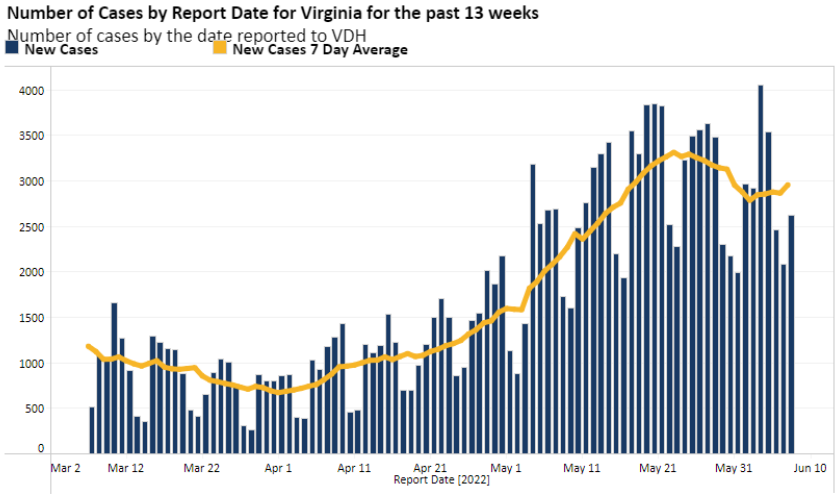
COVID-19 Hospitalization Trends, Virginia



* Compared to last week:

- **Cases decreased** to 2,841 from 3,218 per day (-11.7%)
- **Hospitalizations increased** to 567 from 484 per day (+17.2%)
- **ICU hospitalizations increased** to 87 from 68 (+27.9%) (confirmed; not 7-day MA)
- †**Deaths decreased** to 4 new deaths (Date of Death)

Total Cases by Date Reported, Virginia



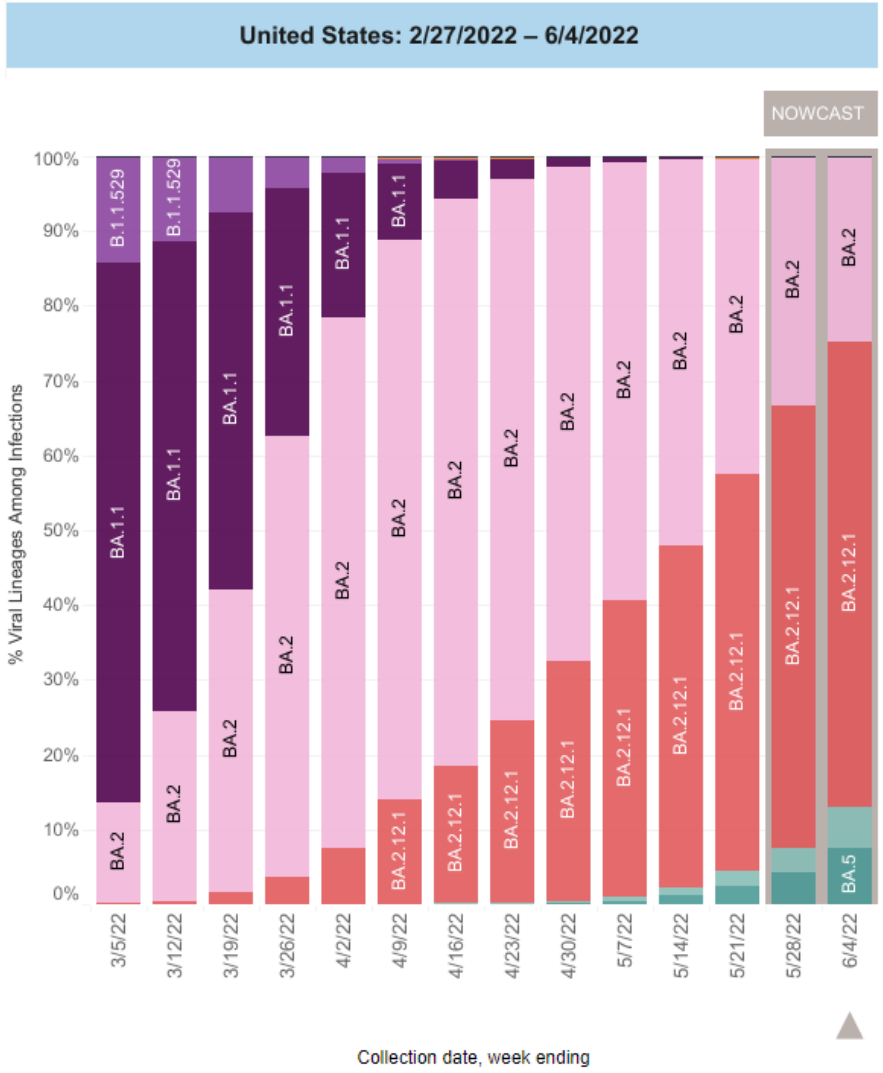
Source: Cases – Coronavirus (virginia.gov), Cases and Deaths - Coronavirus (virginia.gov), VHHA Hospitalizations – Coronavirus (virginia.gov)
*Data comparisons: Friday-Friday, Unless noted, all data represents a 7-day moving average; † Death data is usually delayed in reporting

BA.2.12.1 Variant Update

Updated 5/28/22

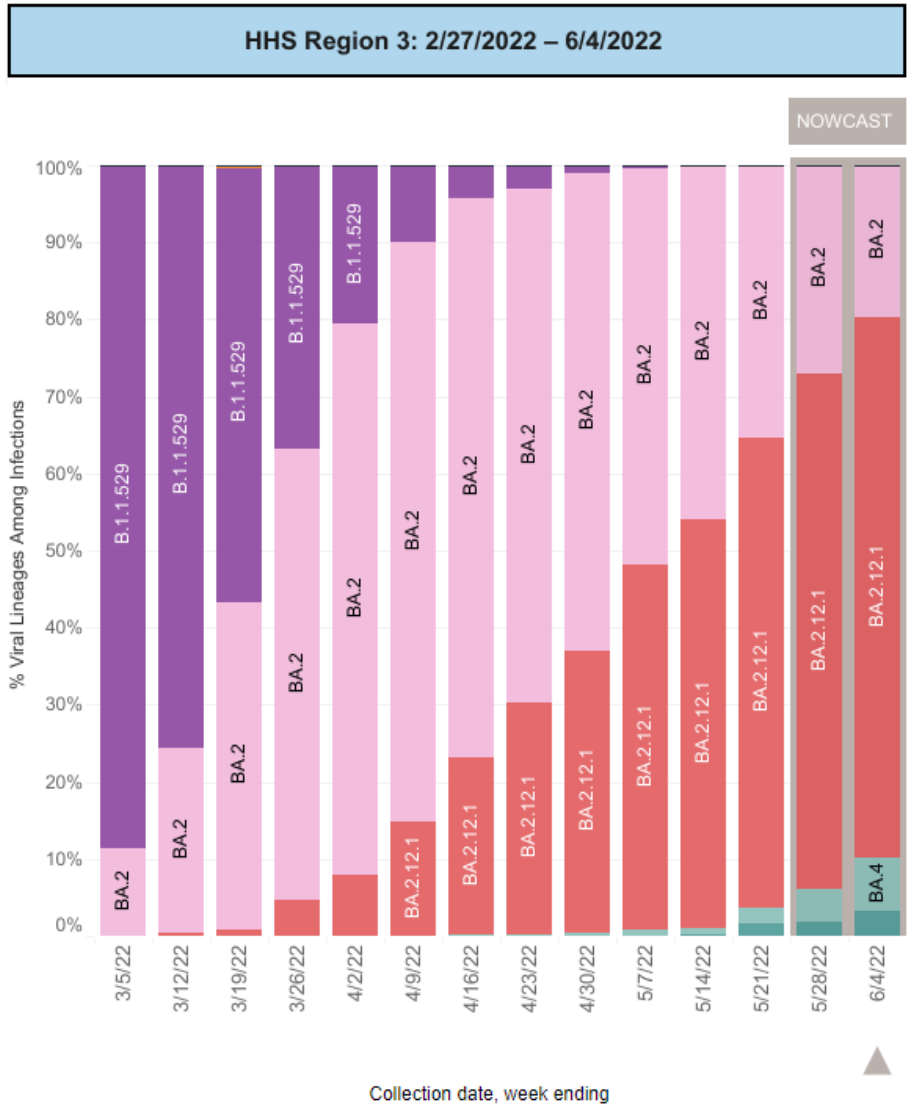
Nationally:

- As of 6/4/22, BA.2.12.1 accounts for 62.2% of cases
- BA.4 and BA.5 account for 13% of cases



HHS Region 3 (DE, DC, MD, PA, **VA**, and WV):

- As of 6/7/22, BA.2.12.1 accounts for 70.1% of cases
- BA.4 and BA.5 account for 10.2% of cases



Source: CDC COVID Data Tracker: Variant Proportions;

COVID-19 Burden in Virginia LTCFs

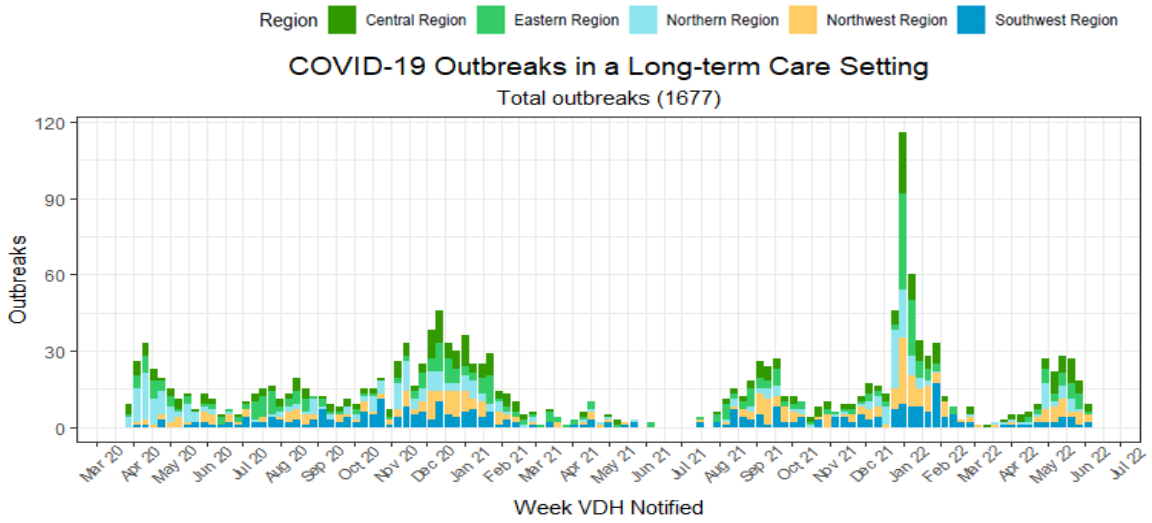
Questions can be directed to: hai@vdh.virginia.gov

Updated 6/6/2022

Key Trends

- There were 83 LTCF COVID-19 outbreaks reported in the past 30 days: 18 in Eastern, 26 in Central, 17 in Northwest, 11 in Northern, and 11 in Southwest *(see figure top right)*.
- The number of reported nursing home resident and staff cases increased since the last reporting week *(see figure bottom right)*.
  - For the reporting week ending June 5, 2022, 250 resident and 216 staff cases were reported to NHSN. Data for this reporting week are preliminary.
- For reporting week ending May 22, 2022, data reported by 283 nursing homes showed 89% of residents were fully vaccinated; data reported by 283 nursing homes showed 95% of staff were fully vaccinated (*see figures bottom left*).
  - Of the nursing home residents eligible to receive an additional dose or booster, **82% of residents 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, **49% of staff have received an additional dose or booster** of COVID-19 vaccine.

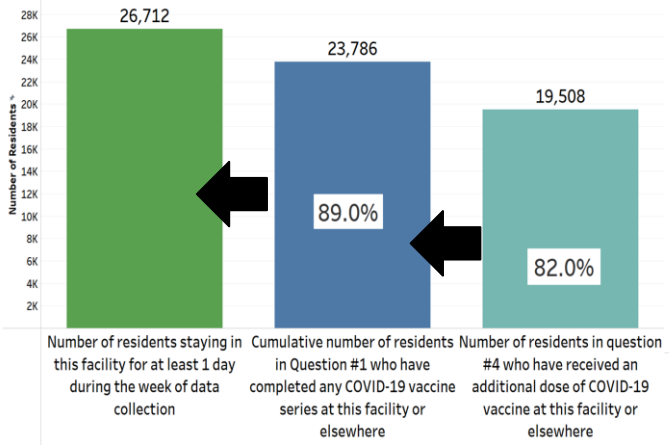
Number and Region of LTCF COVID-19 Outbreaks by Date VDH Notified



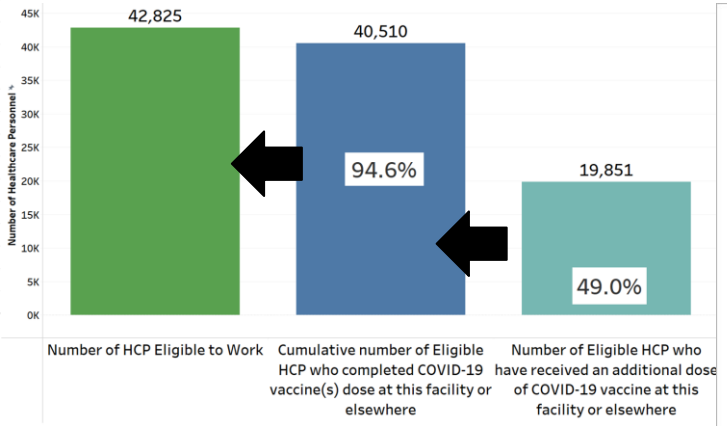
Outbreaks reported from nursing homes, assisted living facilities, and multicare facilities to VDH with a confirmed or suspected etiologic agent of SARS-CoV-2. Data are from the Virginia Outbreak Surveillance System as of 6/6/2022; data are retrospectively updated and subject to change.

COVID-19 Booster Vaccination in Virginia Nursing Homes

Nursing Home Residents

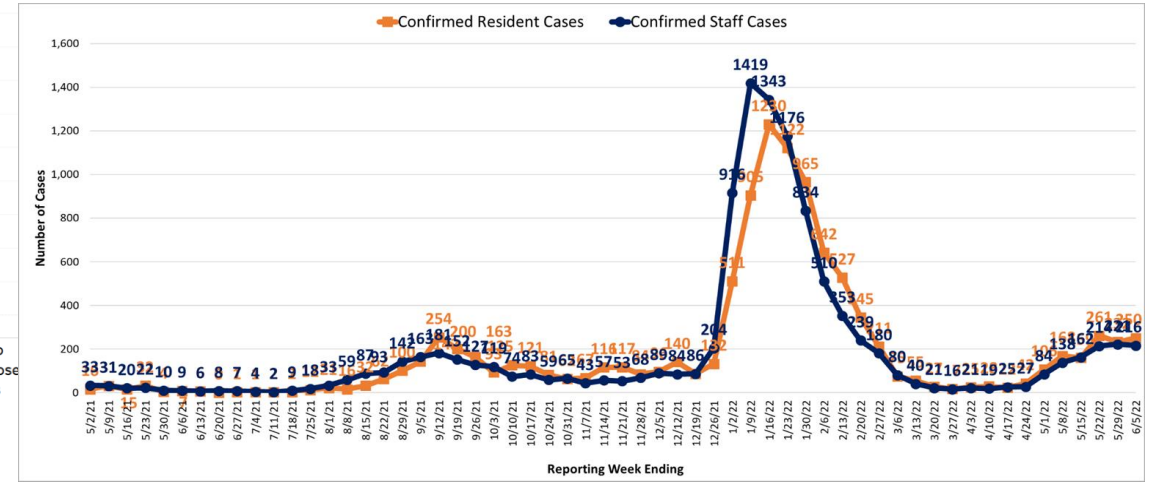


Nursing Home Staff



Data were reported by 286 Virginia nursing homes into the National Healthcare Safety Network (NHSN) as of 5/22/2022 and are subject to change, including booster eligibility per updated vaccine guidance. In Virginia, 283 nursing homes reported resident vaccination data for reporting week ending 5/22/2022; 283 nursing homes reported staff vaccination data for reporting week ending 5/22/2022. For staff type definitions, refer to NHSN Table of Instructions.

Nursing Home Resident and Staff COVID-19 Cases



Data are from NHSN as of 6/6/2022 and are subject to change. For reporting information, please refer to the NHSN data collection forms: residents, staff.

Virginia: Regional Metric Summary

Updated 6/6/22

Metrics date: 6/6/2022

	Central	Eastern	Far Southwest	Near Southwest	Northern	Northwest
New cases per 100k within the last 7 days	243.3 ↑	205.8 ↑	157.2 ↑	201.9 ↓	296.3 ↓	196.7 ↓
% Positivity 7-day moving average	20.2% ↑	21.0% ↑	16.8% ↑	19.7% ↓	18.5% ↑	16.2% ○
COVID-like ED visits rate per 100k	19.4 ↓	14.3 ↓	13.7 ↓	16.1 ↓	9.3 ↓	10.3 ↓

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

[Region Metrics – Coronavirus]

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

COVID-19 Variants; Assessing COVID-19 Prevalence

Updated 6/2/22

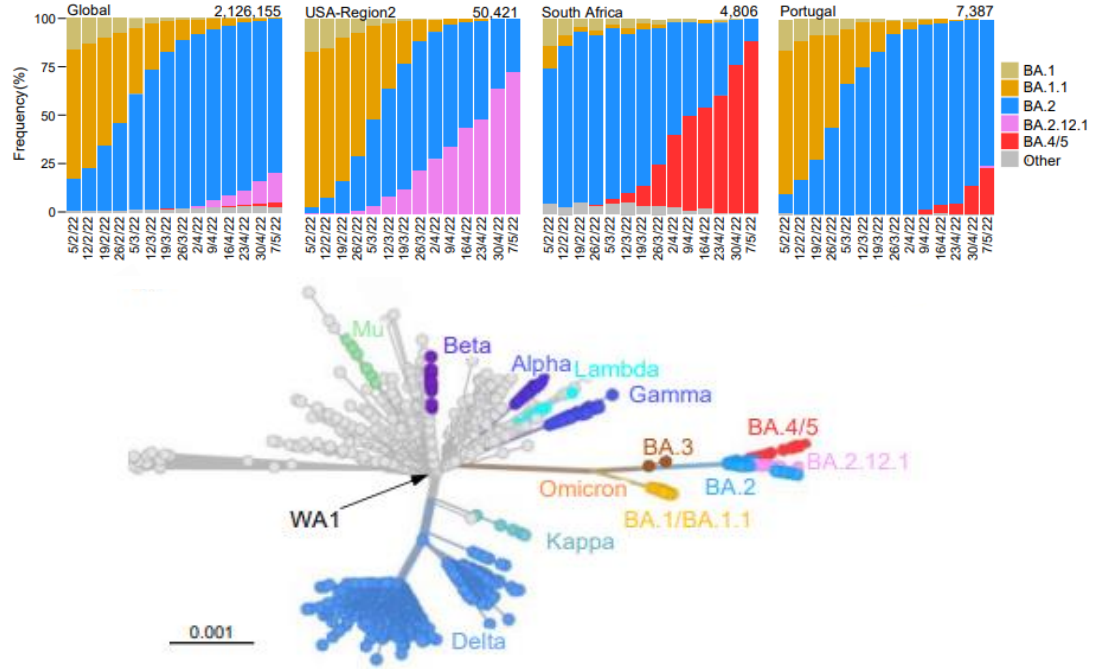
SARS-CoV-2 Omicron BA.2.12.1, BA.4, and BA.5 subvariants evolved to extend antibody evasion: **May 26, 2022**

Summary: The Omicron variant of SARS-CoV-2 continues to evolve, creating resilient subvariants that are not only more transmissible but also more evasive to antibodies generated from vaccines. This study systematically evaluated the antigenic properties of SARS-CoV-2 Omicron subvariants BA.2.12.1 and BA.4/5 to determine resistance among these subvariants to vaccine protection.

Key Findings:

- BA.2.12.1 is only modestly (1.8-fold) more resistant to sera from vaccinated and boosted individuals than BA.2.
- BA.4/5 is substantially (4.2-fold) more resistant and thus likely to lead to more vaccine breakthrough infections.
- BA.2.12.1 and BA.4/5 are dominant already in the US and South Africa respectively and will most likely compete to become the dominant variant in the world, displacing BA.2.

Prevalence of Omicron Sublineages



The prevalence of SARS-CoV-2 infection and uptake of COVID-19 antiviral treatments during the BA.2/BA.2.12.1 surge, New York City: **May 26, 2022**

Summary: Researchers found routine case surveillance data for SARS-CoV-2 to be unreliable for timely surge detection and understanding the burden of infection. To enhance understanding, researchers performed a cross-sectional survey of 1,030 New York City adults in early May 2022 to determine the prevalence of SARS-CoV-2 infection during the Omicron BA.2/BA.2.12.1 surge in the previous 2 weeks (April 23 – May 8). Respondents self-reported on COVID-19 testing, symptoms, and contact with cases.

Key Findings:

- Between April 23 to May 8, 2022, an estimated 22.1% (95% CI: 17.9%-26.2%) had SARS-CoV-2 infection, which would be equivalent to ~1.5 million adults (95% CI: 1.3-1.8 million) in all of New York City.
- COVID-19 prevalence was estimated at 34.9% (95%CI: 26.9%-42.8%) among individuals with comorbidities, 14.9% (95%CI: 11.0%-18.8%) among those 65+ years, and 18.9% (95%CI: 10.2%-27.5%) among unvaccinated persons.
- Approximately 82% of those with COVID-19 during this surge reported having been infected before, compared with 57% of those not infected, indicating the prior infection may be a risk factor for infection in subsequent surges.
- Among individuals with COVID-19, 55.9% (95%CI 44.9%- 67.0%) were not aware of the antiviral Paxlovid; 15.1% (95%CI 7.1%- 23.1%) reported receiving it.
- The true magnitude of NYC's BA.2/BA.2.12.1 surge was vastly underestimated by routine SARS-CoV-2 surveillance.

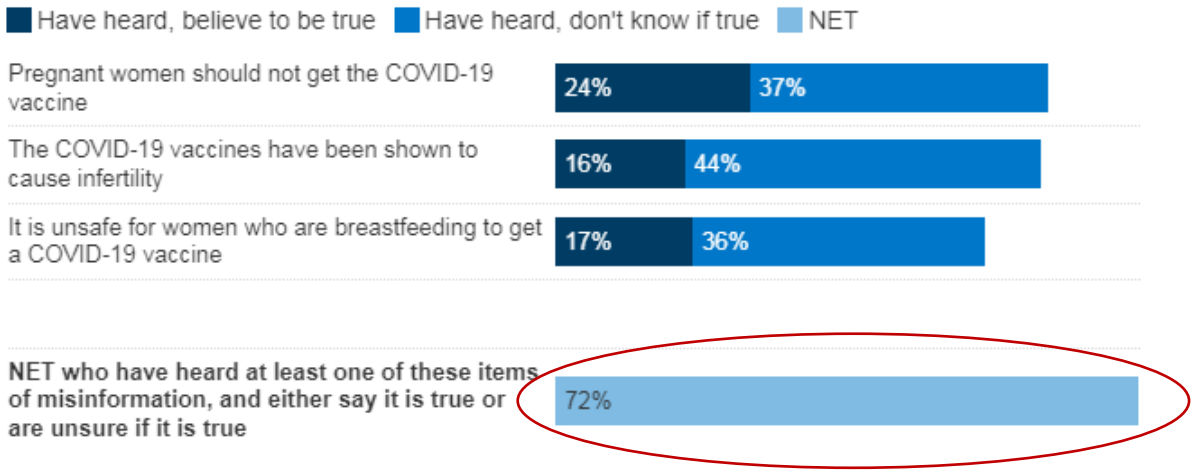
Misinformation: The COVID-19 Vaccine and Pregnancy

Updated 6/2/22

Background

- People with **COVID-19** during pregnancy are **more likely to experience complications**; there is an increased risk of delivering preterm or stillborn
- Evidence shows the COVID-19 **vaccine during pregnancy is safe and effective**; CDC recommends it for pregnant and breastfeeding individuals.
- CDC estimates about 30% of pregnant women are unvaccinated.

Misinformation about the COVID-19 vaccine among pregnant women or women who plan to become pregnant.



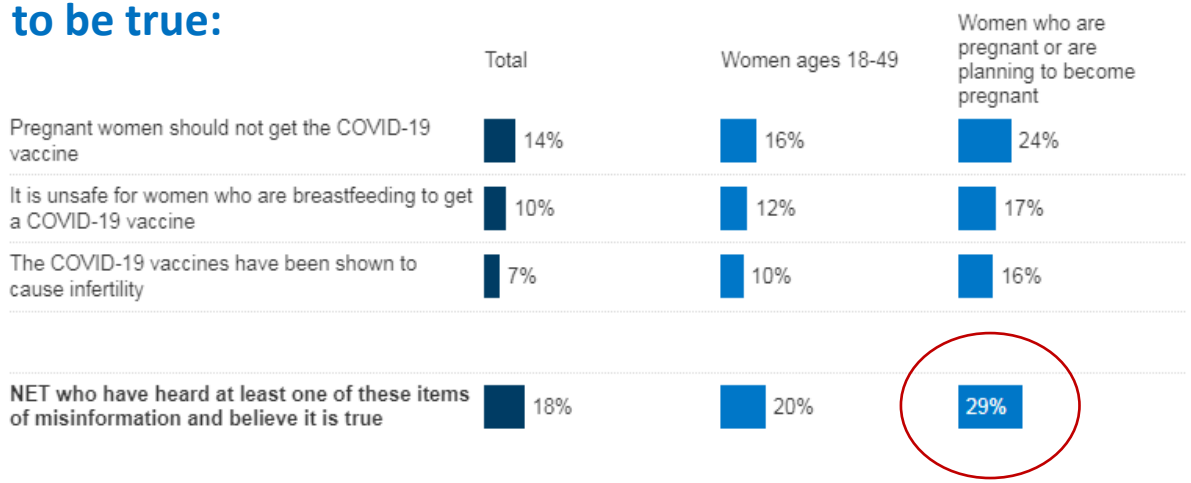
Seven in ten women who are pregnant or planning to become pregnant believe or are unsure about at least one piece of misinformation about COVID-19 vaccines and pregnancy.

Recent Survey Assessing Misinformation

Results from a survey by Kaiser Family Foundation of 1,537 U.S. adults in May 2022 found that pregnancy related misinformation about the COVID-19 vaccine is persistent. The survey found the following:

- Believe pregnant women **shouldn't get the COVID-19 vaccine**:
  - **14% of adults** and **24% of women who are pregnant or plan to become pregnant**
- Believe **at least one item of misinformation** about the COVID-19 vaccine and pregnancy:
  - **18% of adults** and **20% of women of reproductive age**
- Believe it is **unsafe** for women who are **breastfeeding** to get a COVID-19 vaccine:
  - **10% of adults** and **17% of women** who are pregnant or plan to become pregnant

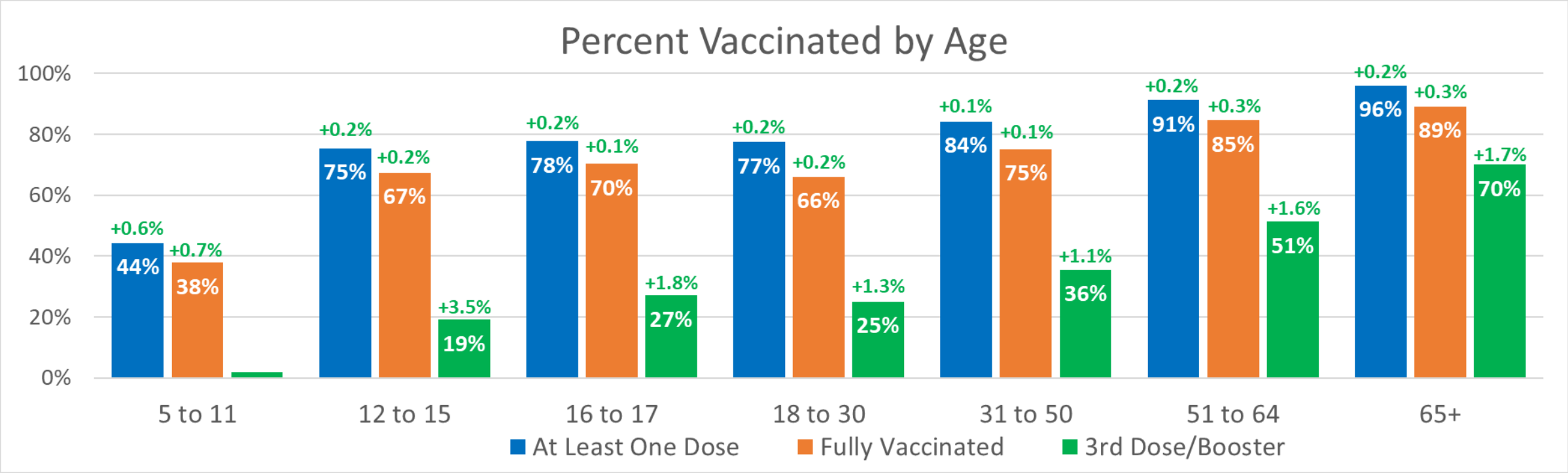
People who have heard each statement and believe it to be true:



Nearly 3 in 10 women who are pregnant or plan to become pregnant believe at least one item of misinformation about the COVID-19 vaccine and pregnancy.

Sources: https://covid.cdc.gov/covid-data-tracker/#vaccinations-pregnant-women, https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/pregnant-people.html
https://www.kff.org/coronavirus-covid-19/poll-finding/kff-covid-19-vaccine-monitor-pregnancy-misinformation-may-2022/

Virginia: Vaccination by Age Groups



Virginia Vaccination by Age

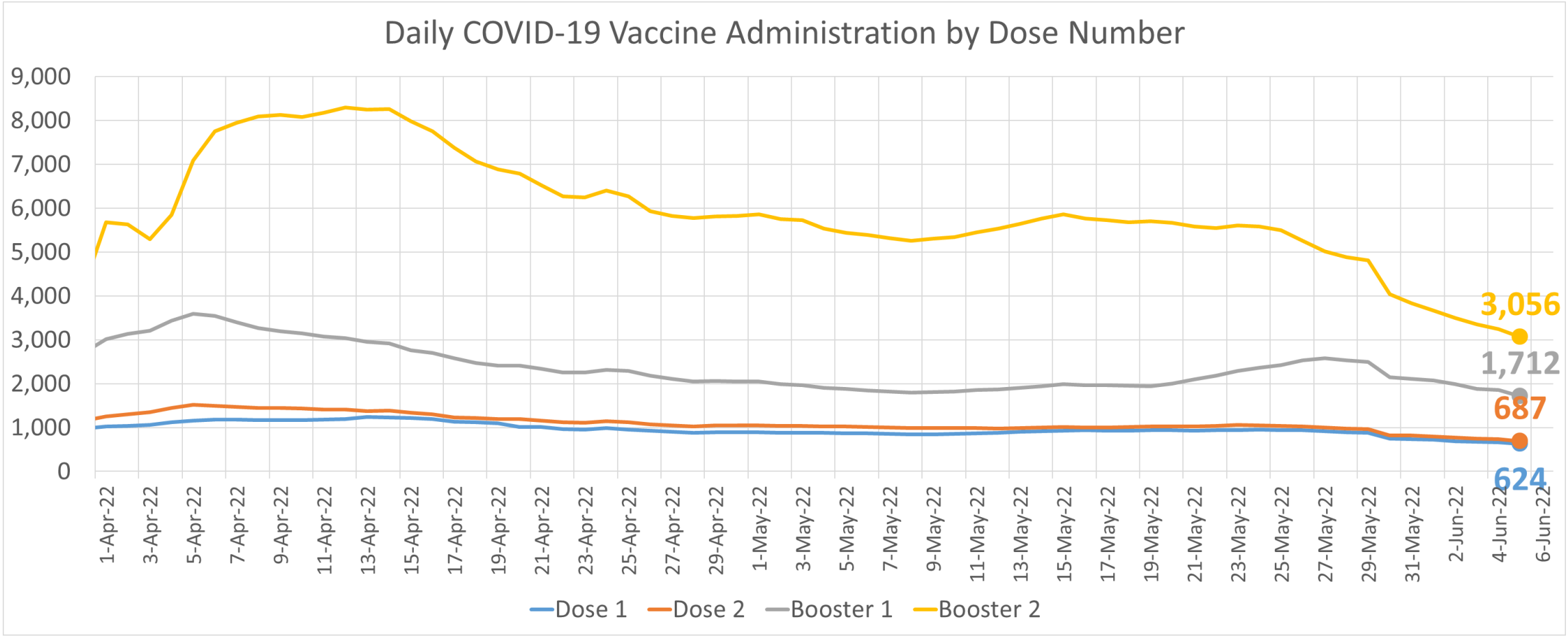
- ✓ **73.8%** **(+0.2%)** of the Total Population is Fully Vaccinated
- ✓ **36.4%** **(-0.3%)** of the Total Population is "Up-to-Date" with their Vaccinations
- ✓ **54.9%** **(unch)** of the Eligible Population and **35.7%** **(+1.1%)** of Total Population Vaccinated with 3rd Dose/Booster
- ✓ **93.2%** **(+0.2%)** of the Adult (18+) Population and **59.2%** **(+0.3%)** 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

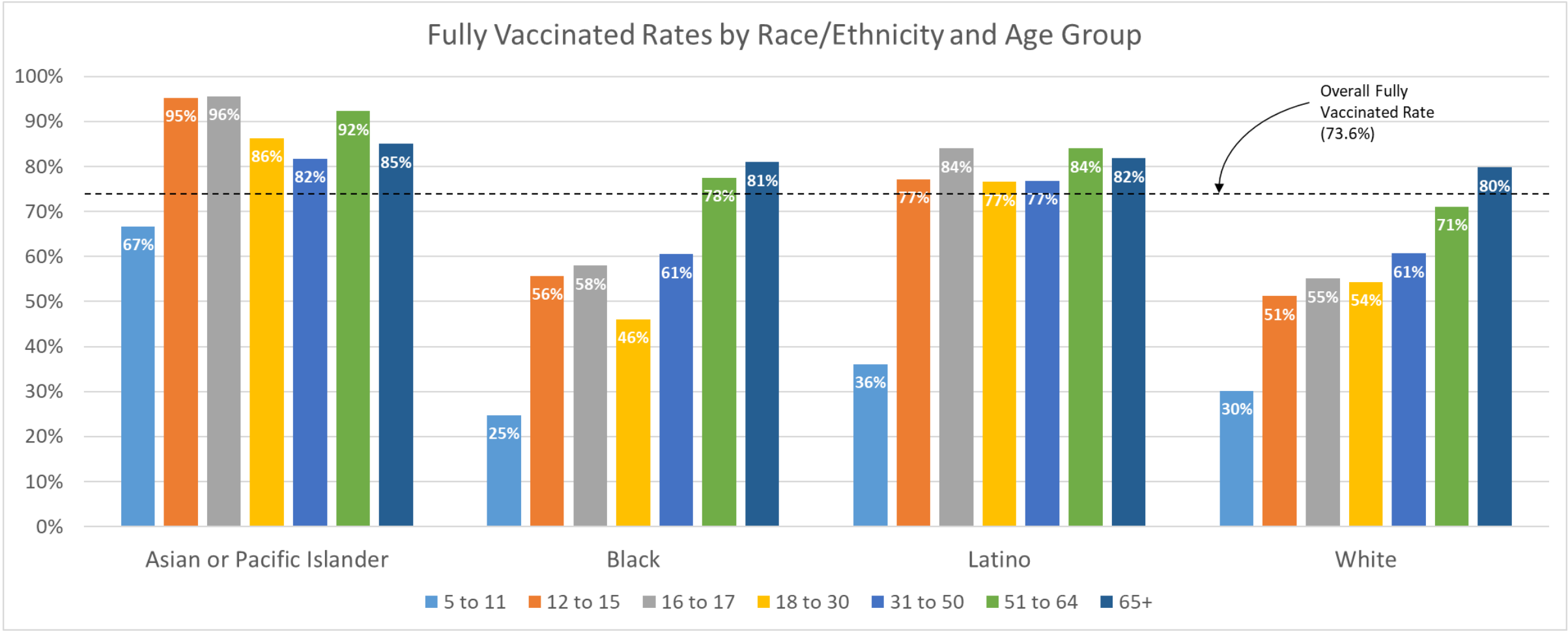
Second Booster Administrations Have Started

- Statewide, over **397k** individuals have received their Second Booster
  - This represents over 24% of those 50+ that are eligible for a 2nd booster



Federal doses not included in this number
Source: [COVID-19 Vaccine Summary – Coronavirus (virginia.gov)]

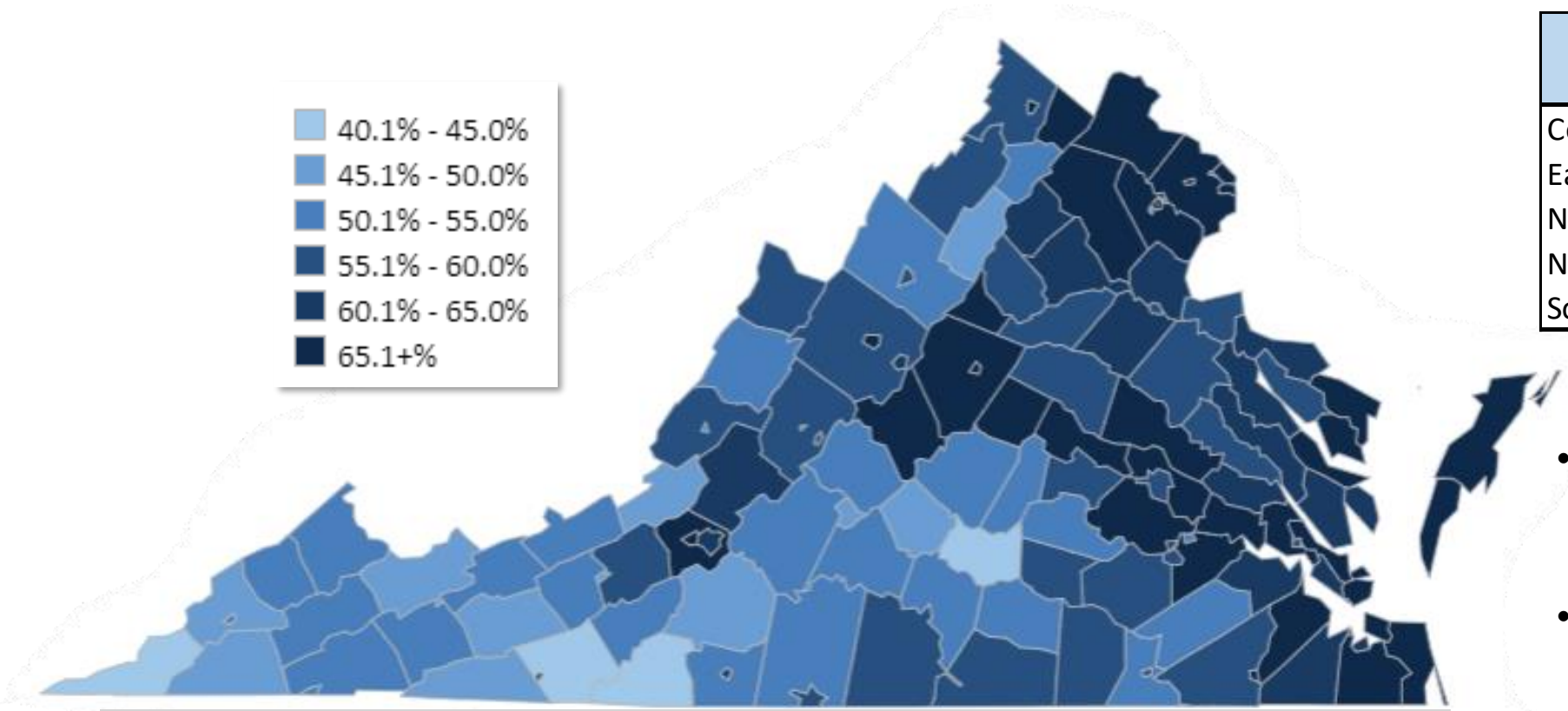
Virginia: Vaccination by Race/Ethnicity and Age



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

Virginia: Vaccination across the Commonwealth by Geography

Percent of the Total Population Fully Vaccinated 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+**	**Total**
Mixed Urban	42%	69%	73%	68%	69%	82%	89%	72%
Urban	39%	69%	75%	60%	72%	82%	86%	71%
Mixed Rural	25%	50%	56%	54%	61%	73%	82%	63%
Rural	17%	41%	47%	48%	54%	69%	78%	59%
Grand Total	**34%**	**62%**	**68%**	**59%**	**68%**	**78%**	**84%**	**68%**

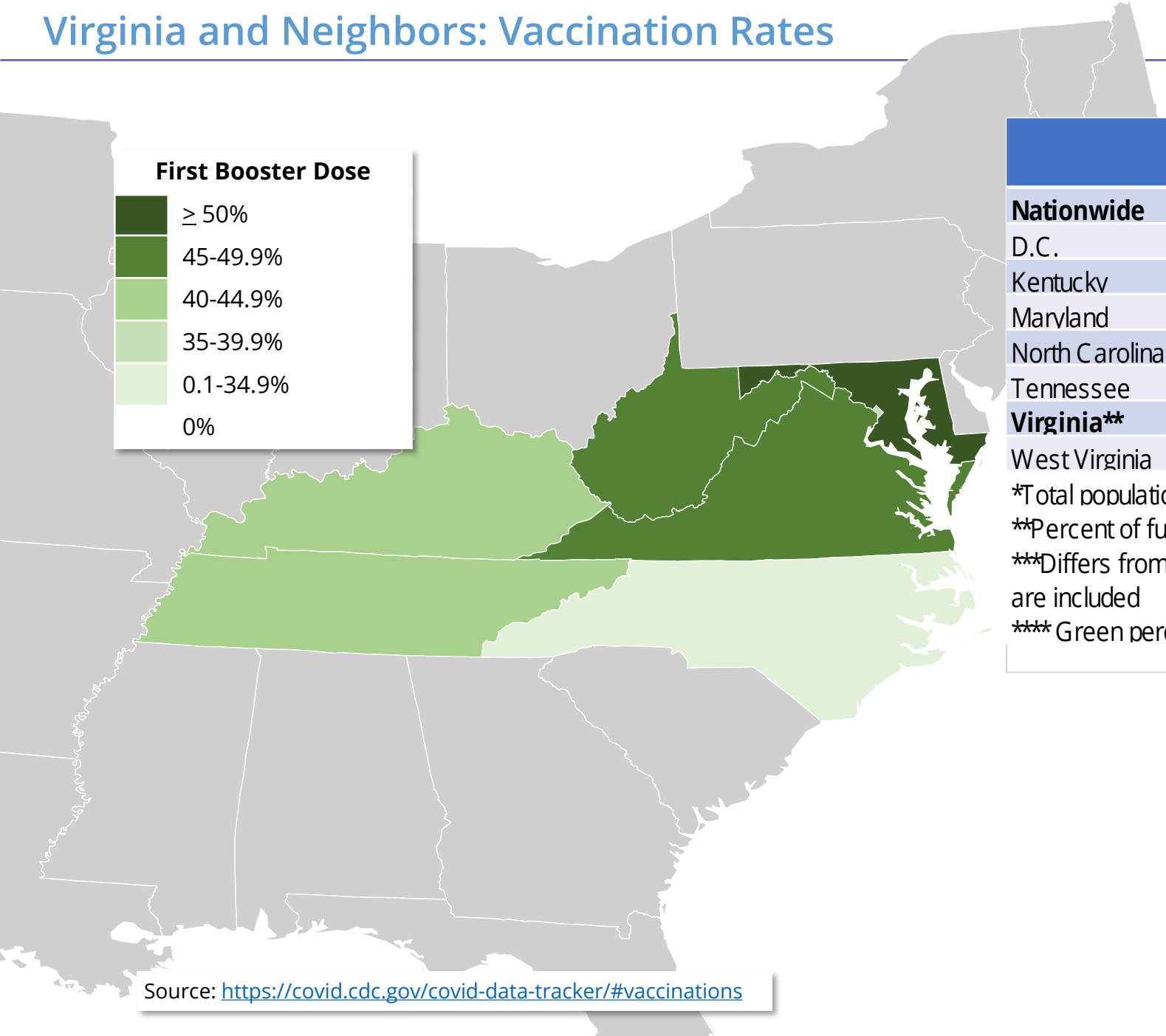
Federal doses not included in this number
Source: [COVID-19 Vaccine Summary – Coronavirus (virginia.gov)]

Vaccination Rates by Region

Region Name	Fully Vaccinated	Up-to-Date
Central	63.3%	38.7%
Eastern	59.4%	33.7%
Northern	74.4%	48.7%
Northwest	61.0%	36.9%
Southwest	53.8%	30.3%

- 19 out of 133 Localities have a fully vaccinated rate below 50%
- 17 out of 133 Localities have a fully vaccinated rate above 70%
- There is a disparity across Urban and Rural areas by Age Groups, with Rural Adolescents the Lowest Vaccinated group

Virginia and Neighbors: Vaccination Rates



	At Least One Dose*	Fully Vaccinated*	First Booster Dose**
Nationwide	77.8% (+0.1%)	66.5% (+0.3%)	46.5% (+1.1%)
D.C.	95.0% (+0.0%)	78.2% (+0.6%)	40.6% (+1.2%)
Kentucky	66.3% (+0.2%)	57.6% (+0.3%)	44.6% (+0.5%)
Maryland	86.8% (+0.2%)	76.0% (+0.4%)	51.3% (+0.6%)
North Carolina	84.8% (+0.5%)	61.7% (+0.7%)	26.8% (+0.8%)
Tennessee	62.4% (+0.3%)	54.7% (+0.2%)	44.4% (+0.7%)
Virginia**	86.1% (+0.3%)	73.6% (+0.4%)	47.6% (+0.4%)
West Virginia	65.2% (+0.2%)	57.8% (+0.3%)	46.1% (+0.4%)

*Total population, includes out-of-state vaccinations
**Percent of fully vaccinated people with a booster dose
***Differs from previous slide because all vaccination sources (e.g., federal) are included
**** Green percent represents percent increase from three weeks prior

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