Virginia COVID-19 Surveillance Data Update

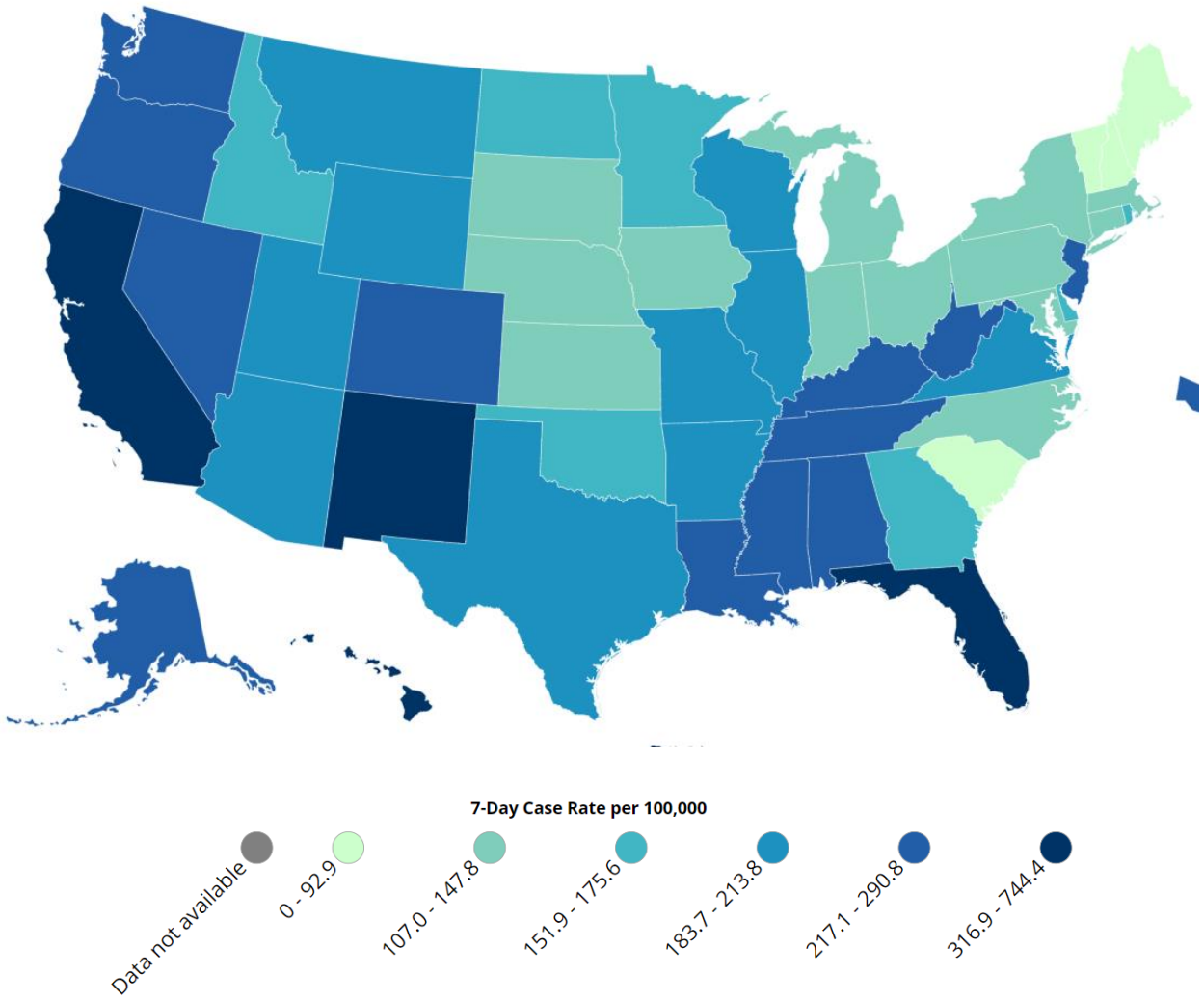
June 30, 2022

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

National: Weekly COVID-19 Case Rate

Updated 6/27/22

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



Case Rates per 100k

US and Virginia	
United States	215.6 (+3.7%)
Virginia	207.7 (+2.3%)

Virginia's Neighboring States	
Rates Lower than Virginia	
Maryland	147.8 (-5.9%)
North Carolina	120.5 (-44.0%)
Rates Higher than Virginia	
District of Columbia	234.1 (+20.7%)
West Virginia	233.0 (+37.9%)
Kentucky	225.1 (+25.8%)
Tennessee	217.1 (+11.9%)

States with the Highest Case Rates	
Hawaii	378.2 (-24.4%)
Florida	344.6 (-1.0%)
California	328.0 (+22.8%)

* North Carolina's case rate % change is likely due to a lag in reporting

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

COVID-19 Variants Update

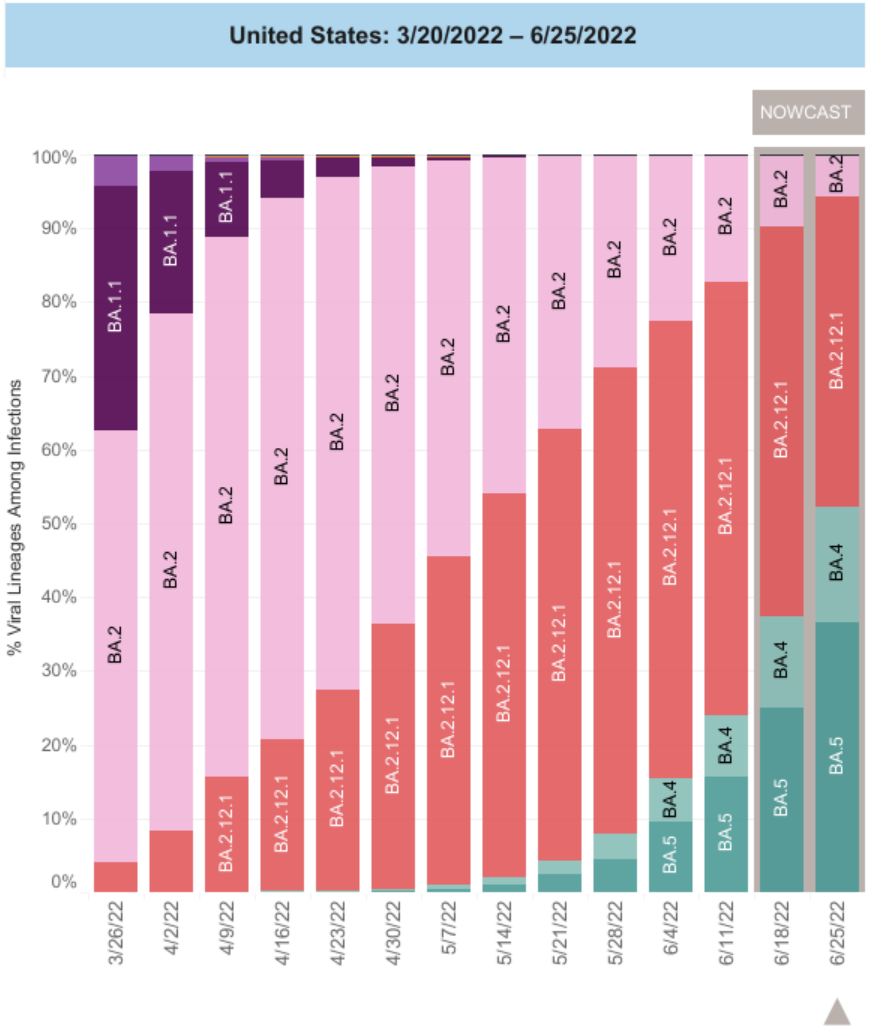
Updated 6/29/22

BA.4 and BA.5 Variants:

- Preliminary lab studies have shown BA.4/5 to be more resistant (4.2-fold) to sera from vaccinated and boosted individuals. BA.4 first identified in South Africa in Jan 2022

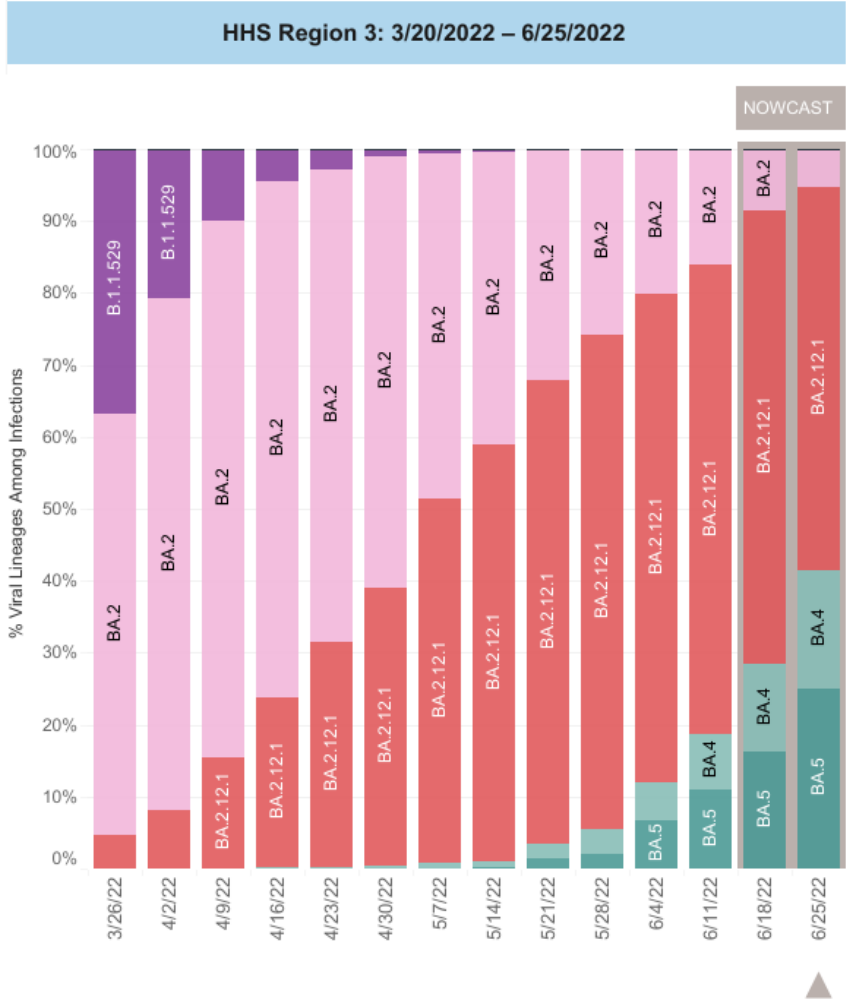
Nationally: As of 6/25/22

- BA.2.12.1 accounts for 42.0% of cases
- BA.4 accounts for 15.7% of cases
- BA.5 accounts for 36.6% of cases



HHS Region 3: As of 6/25/22

- BA.2.12.1 accounts for 53.3% of cases
- BA.4 accounts for 16.5% of cases
- BA.5 accounts for 25% cases

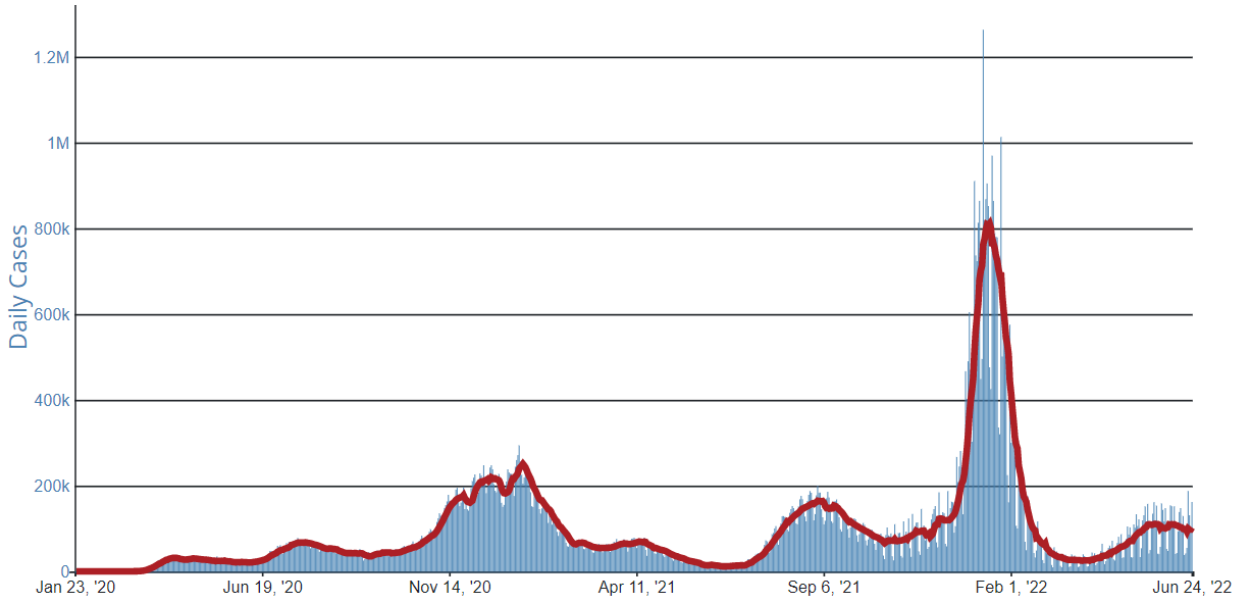


Source: CDC COVID Data Tracker: Variant Proportions; SARS-CoV-2 Omicron BA.2.12.1, BA.4, and BA.5 subvariants evolved to extend antibody evasion | bioRxiv

National: Cases, Hospitalizations, and Deaths

Updated 6/27/22

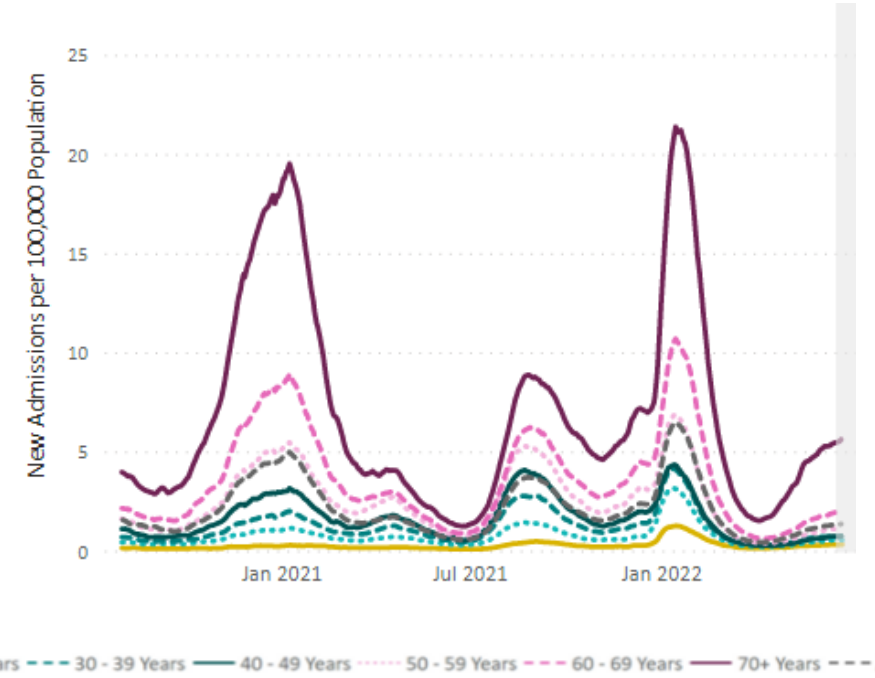
Daily Trends in Number of COVID-19 Cases, United States



* Compared to last week:

- **Cases increased** to 102,250 per day (+3.5%)
- **Hospitalizations increased** to 4,453 per day (+1.2%)
- **Deaths decreased** to 287 per day (-1.7%)

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

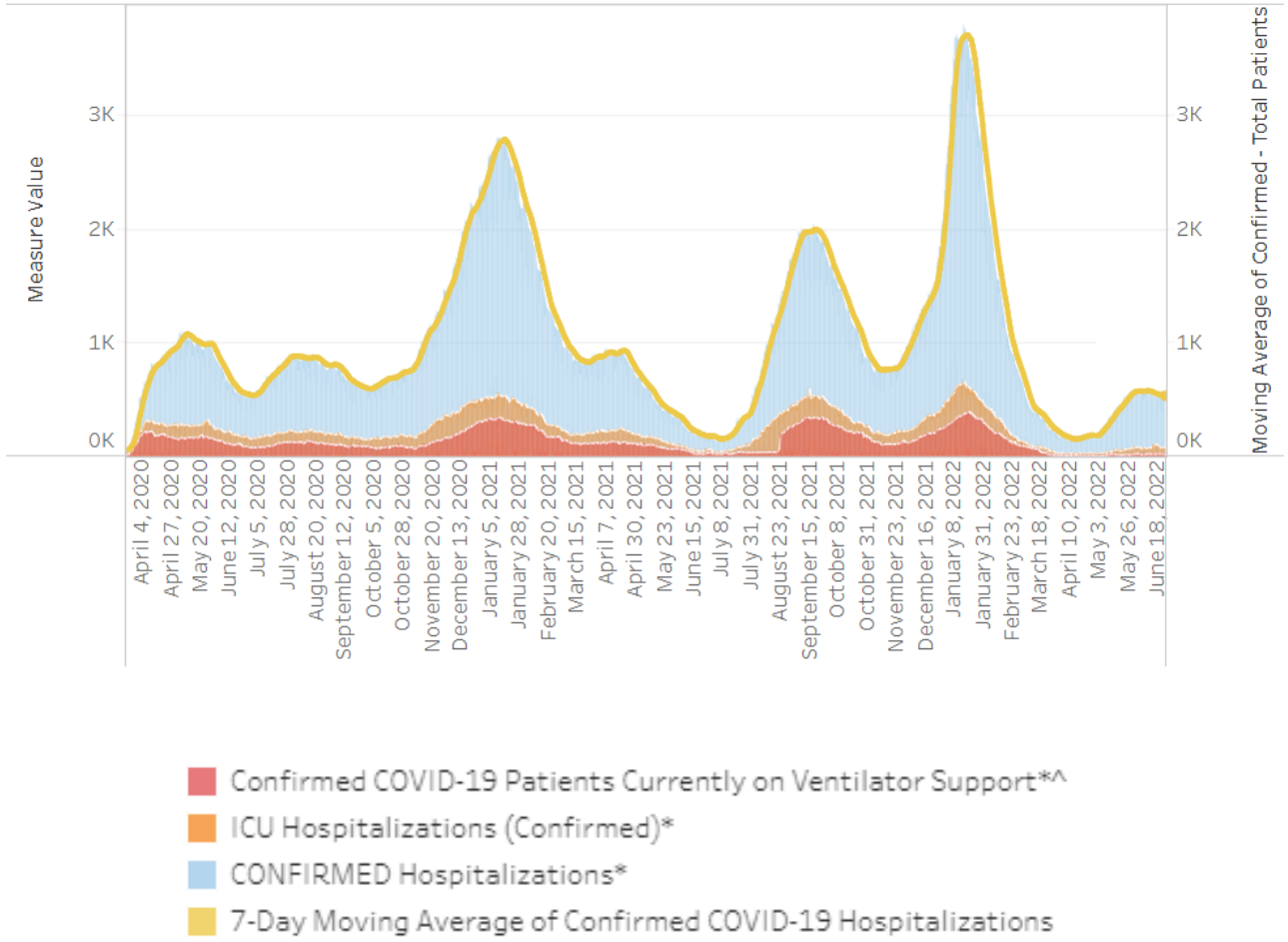


Source: CDC COVID Data Tracker, *Data comparisons: Friday-Friday, All data represents a 7-day moving average

Virginia: Cases, Hospitalizations, and Deaths

Updated 6/27/22

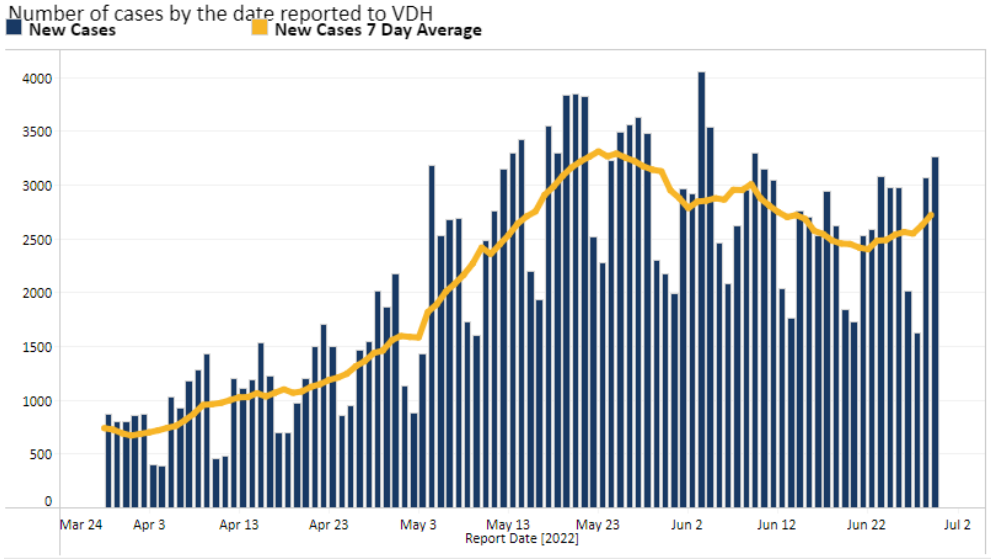
COVID-19 Hospitalization Trends, Virginia



* Compared to last week:

- **Cases decreased** to 2,483 from 2,540 per day (-2.2%)
- **Hospitalizations decreased** to 540 from 565 per day (-4.4%)
- **ICU hospitalizations decreased** to 77 from 83 (-7.2%) (confirmed; not 7-day MA)
- †**Deaths increased** to 9 new deaths (Date of Death)

Total Cases by Date Reported, Virginia



Source: Cases – 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

Virginia: Regional Metric Summary

Updated 6/27/22

Metrics date: 6/27/2022

	Central	Eastern	Far Southwest	Near Southwest	Northern	Northwest
New cases per 100k within the last 7 days	209.2 ↑	200.2 ↑	181.0 ↑	164.4 ↓	259.2 ↑	166.7 ↓
% Positivity 7-day moving average	19.0% ↑	21.9% ↑	21.0% ↑	22.5% ↑	17.4% ↑	16.6% ↑
COVID-like ED visits rate per 100k	13.9 ↓	11.6 ↓	11.3 ↓	11.4 ↓	6.7 ↓	7.7 ↓

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 Burden in Virginia LTCFs

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

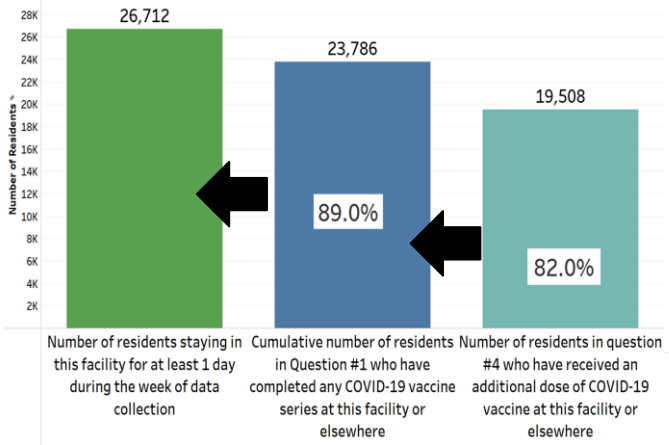
Updated 6/27/2022

Key Trends

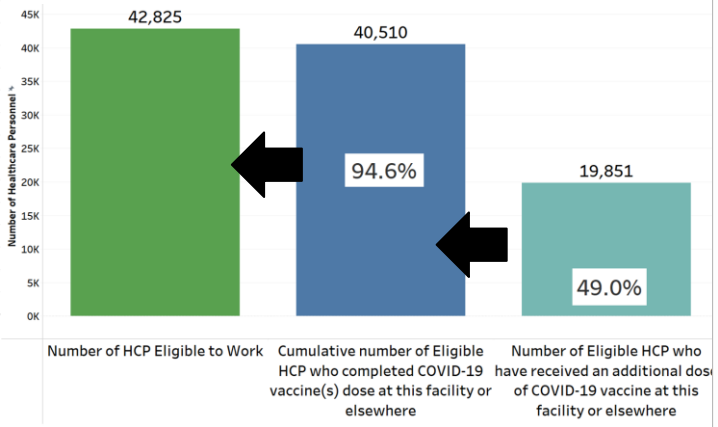
- There were 64 LTCF COVID-19 outbreaks reported in the past 30 days: 16 in Eastern, 16 in Central, 14 in Northwest, 4 in Northern, and 14 in Southwest *(see figure top right)*.
- The number of reported nursing home resident and staff cases decreased since the last reporting week *(see figure bottom right)*.
  - For the reporting week ending June 26, 2022, 241 resident and 192 staff cases were reported to NHSN. Data for this reporting week are preliminary.
- *Note updated nursing home vaccination data are not available*. 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.

COVID-19 Booster Vaccination in Virginia Nursing Homes

Nursing Home Residents

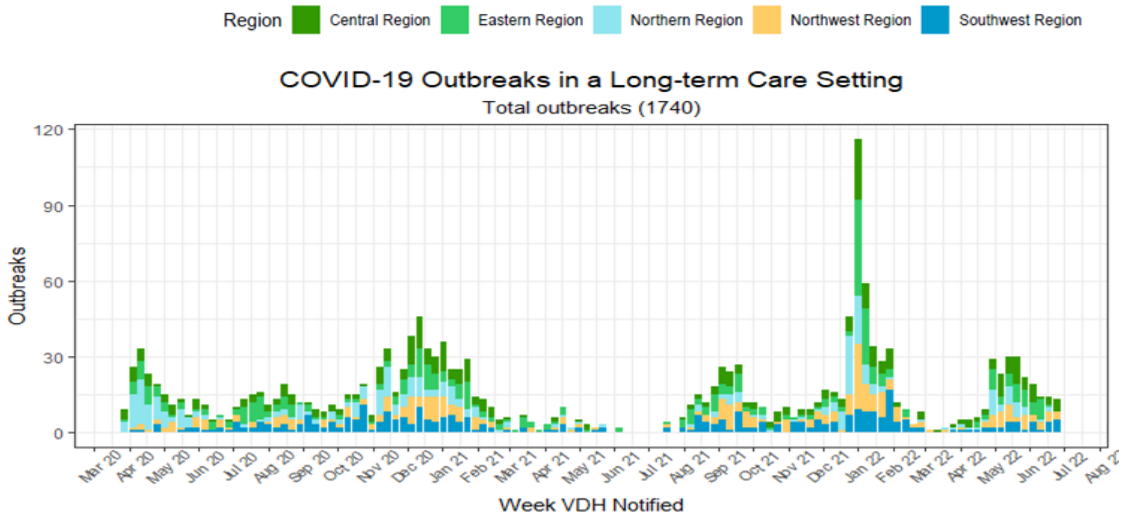


Nursing Home Staff



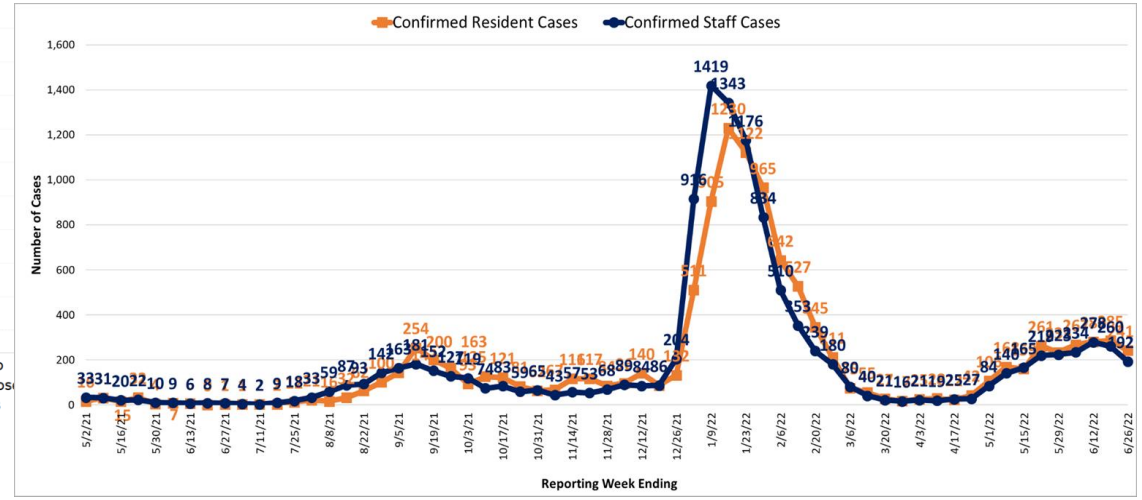
Data were reported by 286 Virginia nursing homes into the National Healthcare Safety Network (NHSN) as of 5/22/2022 and are subject to change, including booster eligibility per updated vaccine guidance. In Virginia, 283 nursing homes reported resident vaccination data for reporting week ending 5/22/2022;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

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 6/27/2022; data are retrospectively updated and subject to change.

Nursing Home Resident and Staff COVID-19 Cases



Data are from NHSN as of 6/27/2022 and are subject to change. For reporting information, please refer to the NHSN data collection forms: residents, staff.

Vaccination of Children 6 Months – 4 Years of Age

Updated 6/27/22

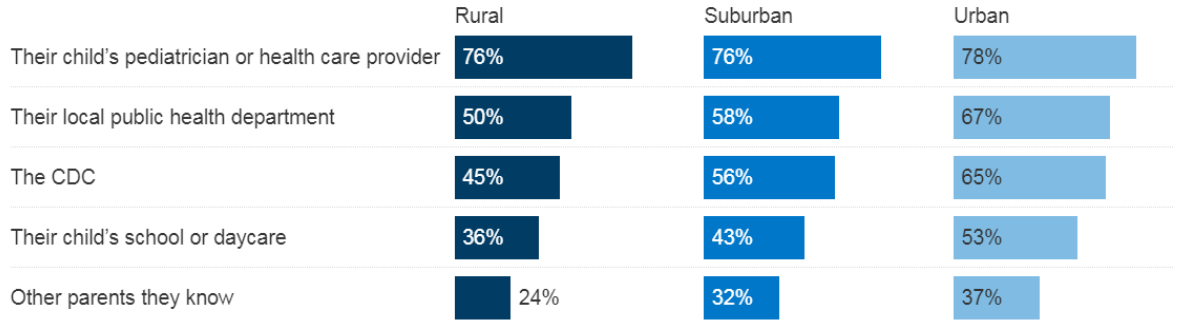
- In the US **~19 million children under the age of 5** who have yet to receive a vaccine.
- The FDA **authorized emergency use** of both Moderna and Pfizer's COVID-19 vaccines for children from the ages of 6 months to 5 years old on **June 17, 2022**.
- The CDC **instructed jurisdictions to pre-order** the vaccines beginning on June 3, 2022

Vaccine Rollout: Challenges and Considerations

- **Access Challenges**
  - Differences in jurisdictional decisions and implementation plans
  - Small numbers and locations of pediatric vaccinators and sites
- **Formulation of New Smaller Doses and Supplies**
  - Lower vaccine dosages than the previous rollouts requires new vials to be shipped out to states and pharmacies
  - Providers have to **specifically order**, and stock pediatric vaccines, which may **delay access in the early days** of vaccine rollout

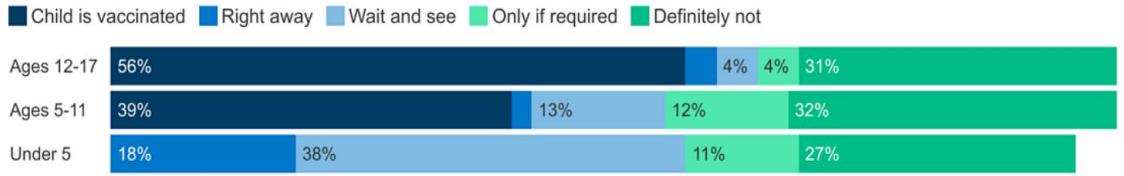
Differences between 2 vaccines presents challenges in parents' decision to vaccinate; two different product configurations have different age ranges, vaccination schedules, familiarity, and doses.

Percent of parents who say they trust each of the following to provide reliable information about the COVID-19 vaccine for children



Pediatricians are the top trusted source of information for parents across communities

Parents' answers to "has your child received one dose of a COVID-19 vaccine, or not? If not, do you think you will get them vaccinated…"



One in five parents of children under five want to vaccine right away; four in ten want to wait and see

Sources: Endpoint (modernatx.com), Cases Among Children - Coronavirus (virginia.gov) , The Last Major Phase of the COVID-19 Vaccination Roll-out: Children Under 5 | KFF, https://www.kff.org/coronavirus-covid-19/poll-finding/kff-covid-19-vaccine-monitor-vaccine-attitudes-rural-suburban-urban/ , https://www.kff.org/coronavirus-covid-19/press-release/1-in-5-parents-of-children-under-5-intend-to-get-them-a-covid-19-vaccine-right-away-once-eligible/

Vaccination of Children 6 Months – 4 Years of Age

Updated 6/27/22

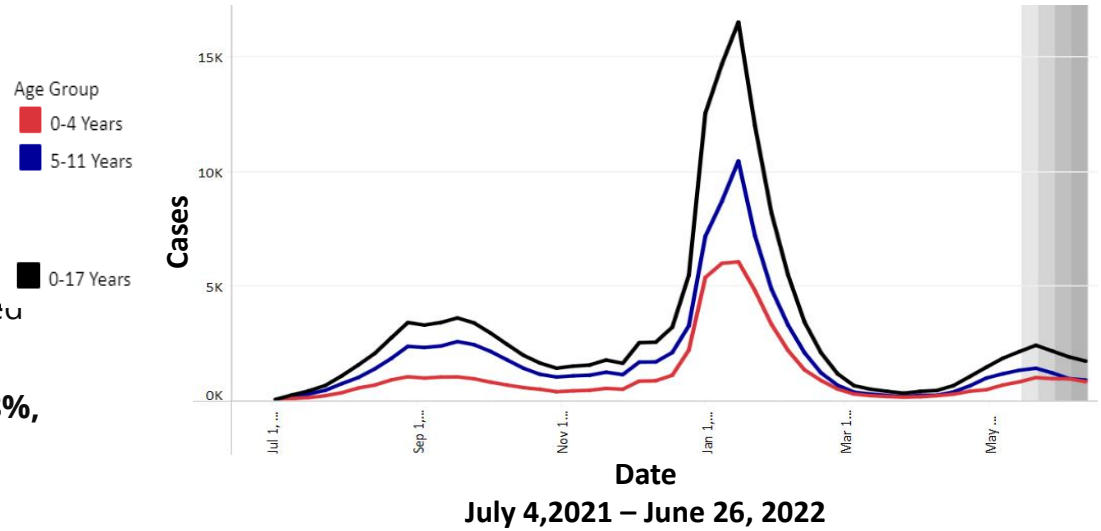
COVID-19 **Vaccines Safety Trials** for Young Children

- For both Pfizer and Moderna, there were **no new safety issues** identified
- Majority of side effects were **mild or moderate**
- In both trials, **no cases of myocarditis** or pericarditis were found

COVID-19 **Vaccine Efficacy** for Young Children

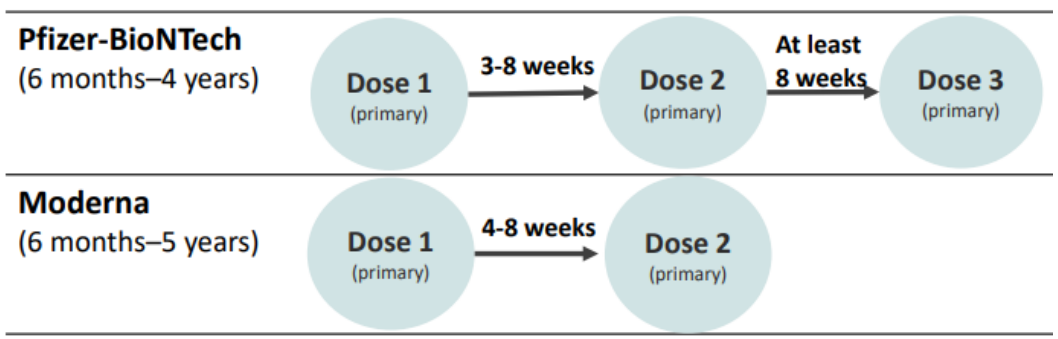
- **Pfizer**
  - Analyses performed separately for 6-23 months and 2-4 years, results pooled for combined 6 month-4 years estimate
  - **Vaccine efficacy against symptomatic infection was 80.4% (95% CI: 22.8%, 94.8%)**
    - Symptomatic lab confirmed cases: 3 out of 992 cases in the vaccine group; 7 out of 464 cases in the placebo group.
    - **Efficacy estimate difficult to interpret given limited follow-up time and small numbers**
- **Moderna**
  - Analyses performed separately for 6-23 months, and 2-5 years, results pooled for combined 6 month-5 years estimate
  - **Vaccine efficacy against symptomatic infection was 37.8% (95% CI: 20.9%, 51.1%)**
    - Symptomatic lab confirmed cases: 181 out of 4791 in the vaccine group; 97 out of 1597 cases in the placebo group
- Clinical trials were **not large enough to detect efficacy against severe disease**, but expect similar patterns to what is seen in older ages with higher protection against severe disease

COVID-19 Cases By Pediatric Age Group in VA



July 4,2021 – June 26, 2022

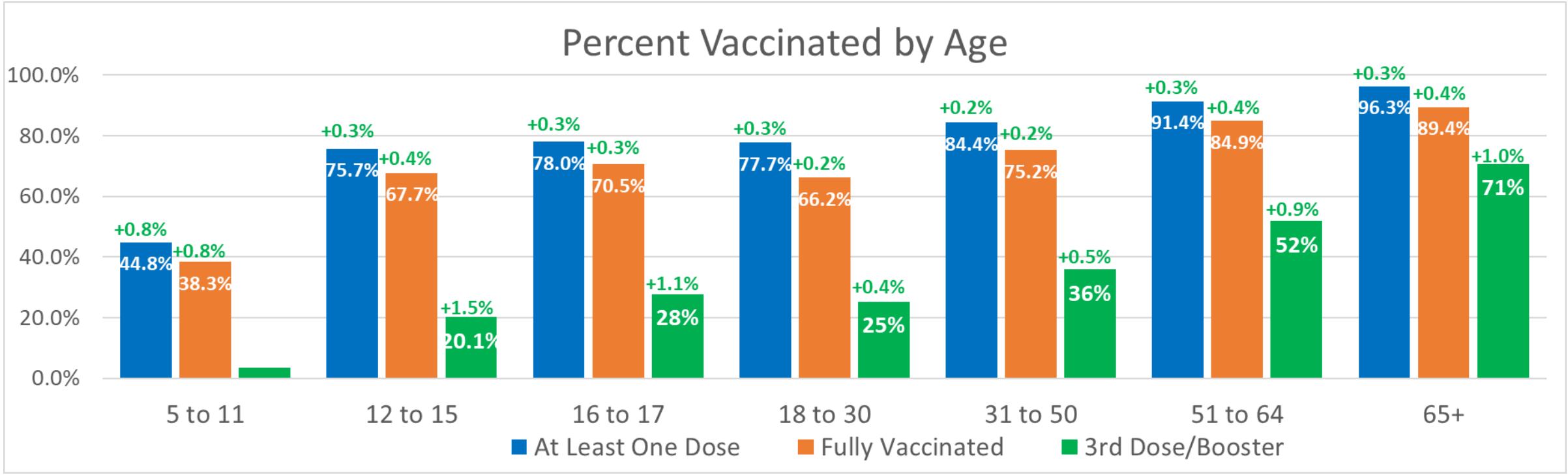
Vaccination for Children Who Are Not Immunocompromised



Sources: https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2022-06-17-18/03-covid-oliver-508.pdf, https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2022-06-17-18/03-covid-oliver-508.pdf, Moderna Announces its COVID-19 Vaccine Phase 2/3 Study in Children 6 Months to Under 6 Years Has Successfully Met Its Primary Endpoint (modernatx.com), COVID-19 Vaccines for Kids Under 5: What Parents Need To Know > News > Yale Medicine

Virginia: Vaccination by Age Groups

Updated 6/29/22



Virginia Vaccination by Age

- ✓ **73.2%** of the Total Population is Fully Vaccinated after a downward revision in Federal Data
- ✓ **23%** of the Total Population is "Up-to-Date" with their Vaccinations after a revision in the definition
- ✓ **51.7%** of the Eligible Population and **34.6%** of Total Population Vaccinated with a First Booster
- ✓ **28.9%** of the Total Eligible Population has a 2nd Booster and **36.6%** of the 65+ Eligible Population has a 2nd Booster
- Green percent represents percent increase from two weeks prior

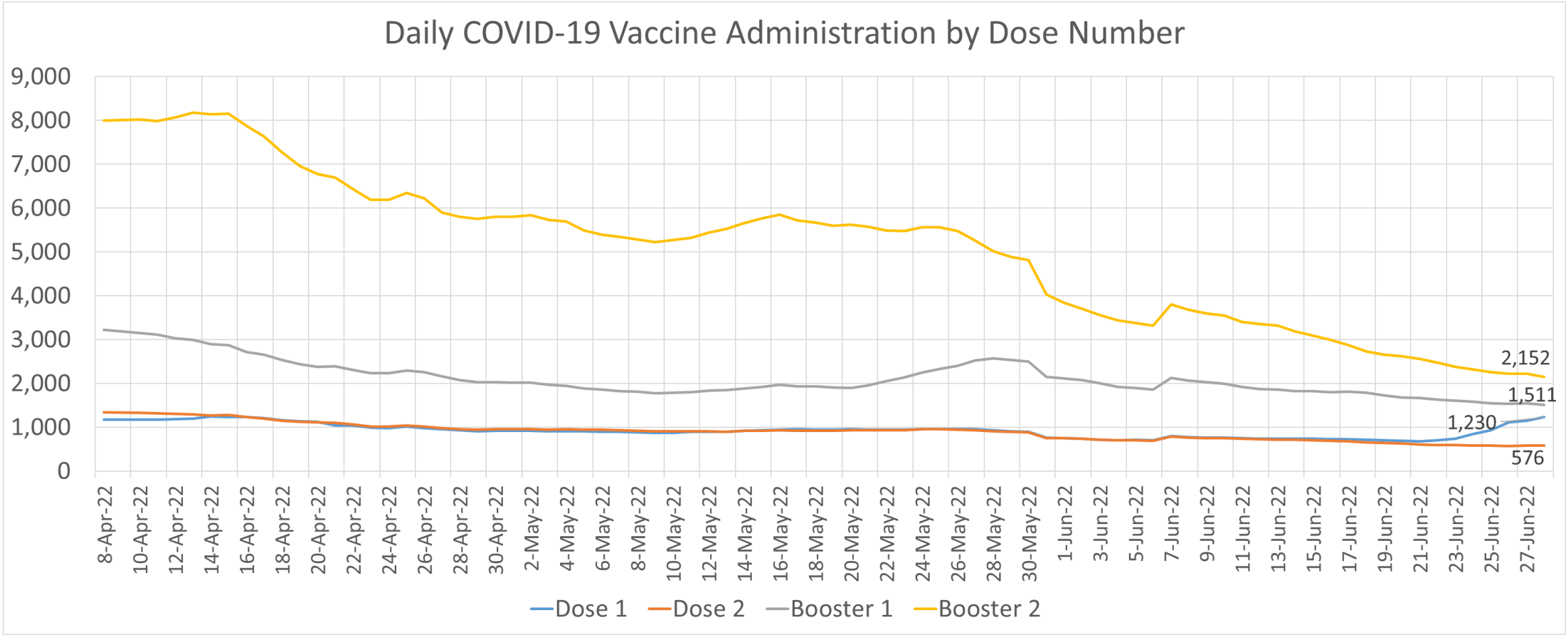
Source: COVID-19 in Virginia: Vaccine Summary, Keep Virginia Safe Tournament | Metaculus

Virginia: Vaccine Demand by Dose Number

Updated 6/29/22

Vaccine Administrations by Dose Type

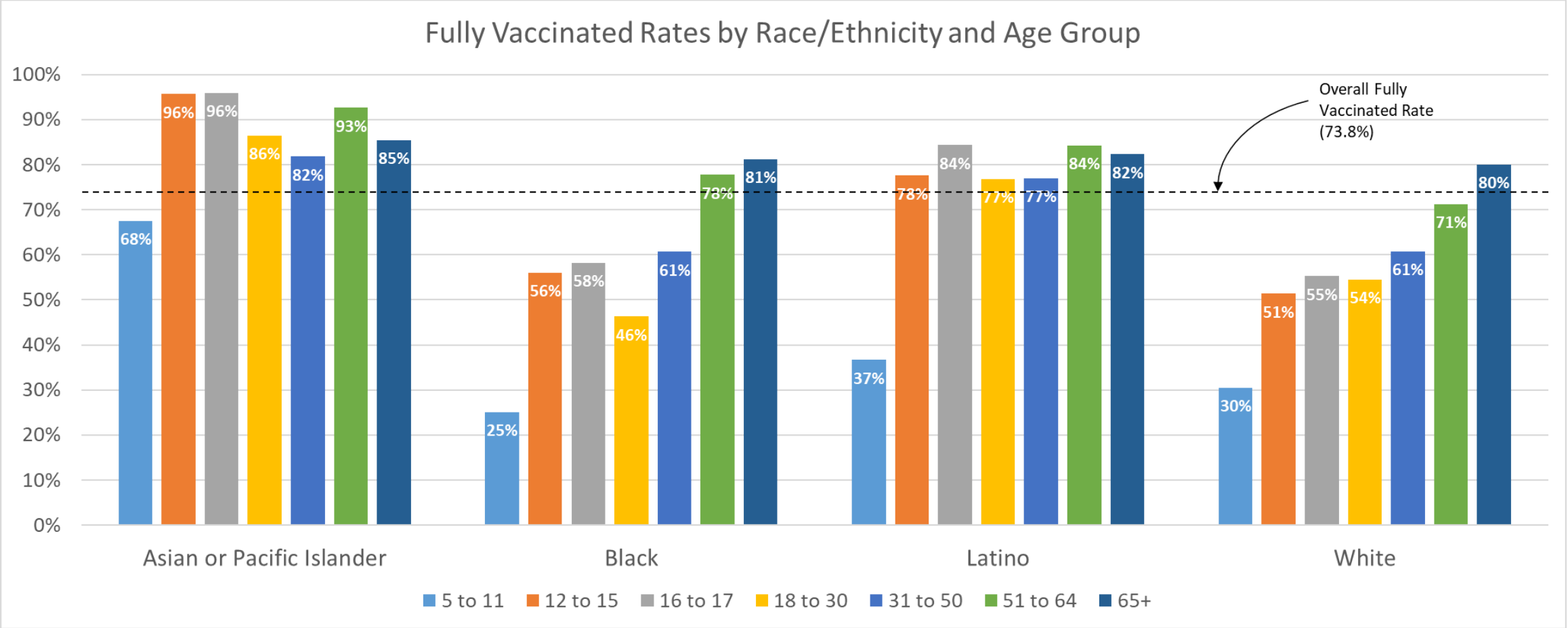
- Statewide, over **456k** individuals have received their Second Booster
  - 29% of the eligible population has a 2nd booster
  - 11% of the eligible 5 to 11 population has a 1st booster



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

Virginia: Vaccination by Race/Ethnicity and Age

Updated 6/29/22



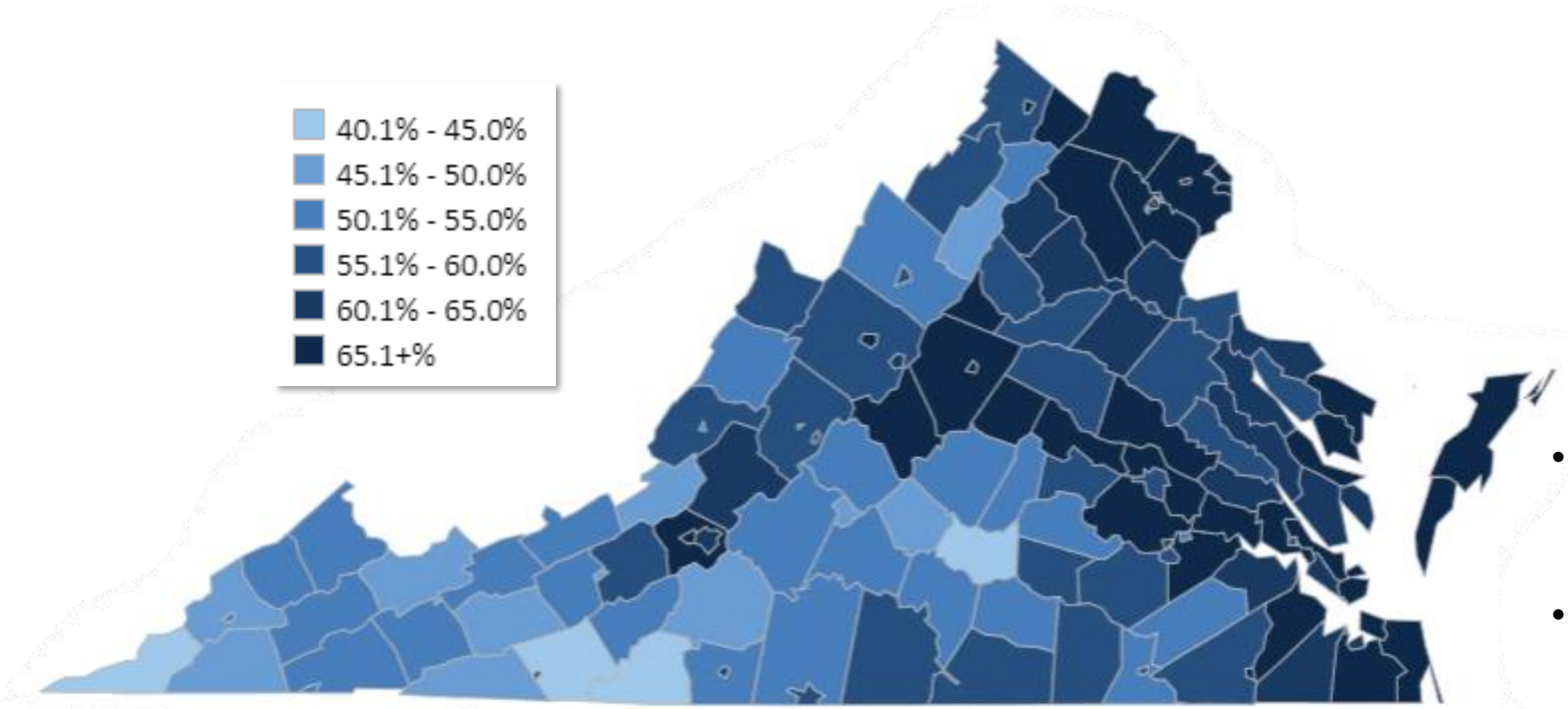
Change in Fully Vaccinated	5 to 11	12 to 15	16 to 17	18 to 30	31 to 50	51 to 64	65+
Asian or Pacific Islander	0.6%	0.3%	0.2%	0.1%	0.1%	0.2%	0.3%
Black	0.3%	0.2%	0.1%	0.2%	0.1%	0.2%	0.2%
Latino	0.4%	0.3%	0.2%	0.2%	0.1%	0.2%	0.4%
White	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%

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

Virginia: Vaccination across the Commonwealth by Geography

Updated 6/29/22

Percent of the Total Population Fully Vaccinated by Locality



2013 SRHP Isserman Classification

Change in Rate	5 to 11	12 to 17	16 to 17	18 to 30	31 to 50	51 to 64	65+	Total
Mixed Urban	0.8%	0.4%	0.3%	0.3%	0.2%	0.4%	0.5%	0.4%
Urban	0.8%	0.4%	0.3%	0.3%	0.2%	0.4%	0.5%	0.4%
Mixed Rural	0.5%	0.3%	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%
Rural	0.3%	0.3%	0.3%	0.3%	0.2%	0.2%	0.3%	0.3%
Grand Total	**0.7%**	**0.4%**	**0.3%**	**0.3%**	**0.2%**	**0.4%**	**0.4%**	**0.3%**

Vaccination Rates by Region

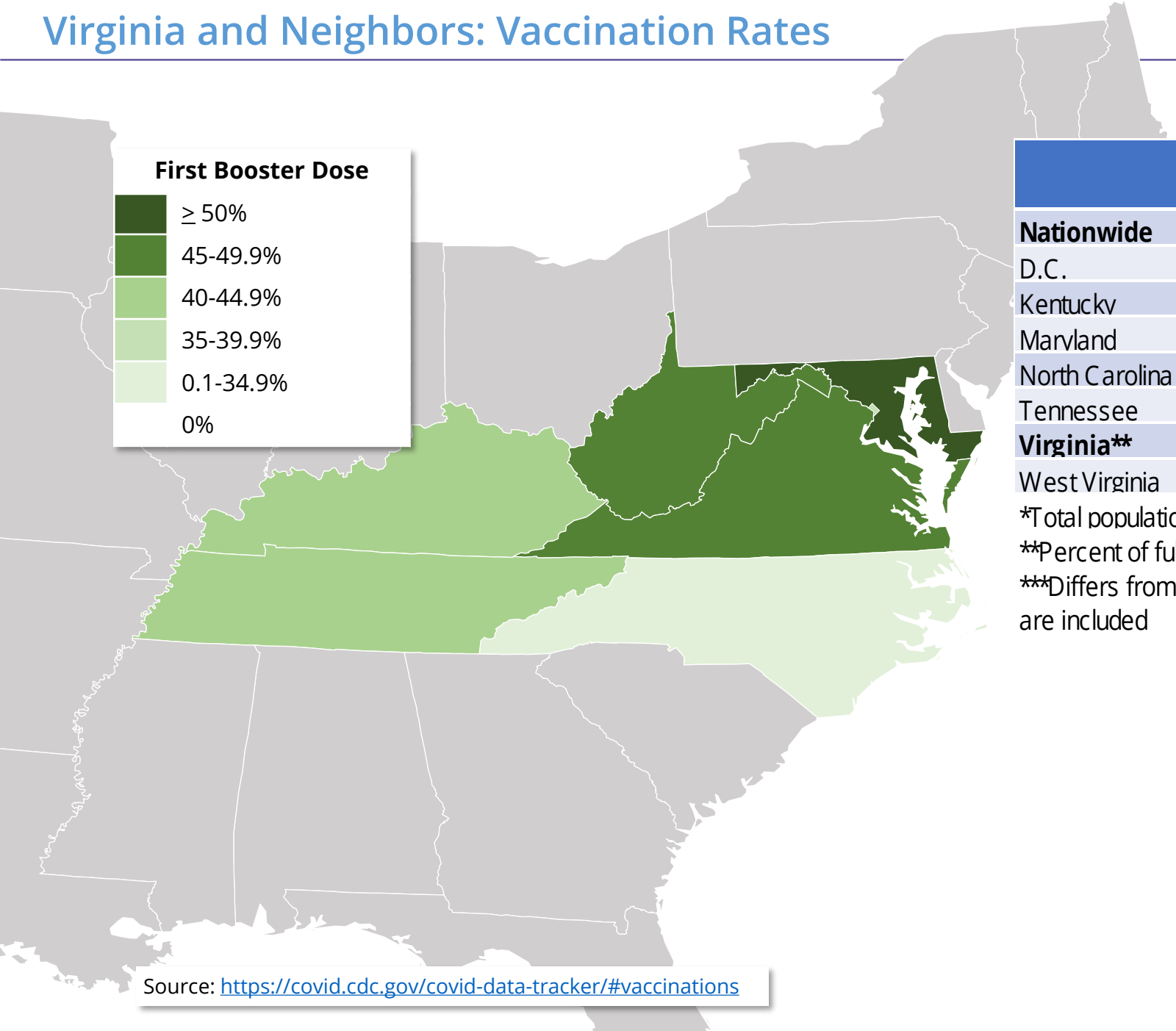
Health Region	Fully Vaccinated	Change
Central	63.5%	0.1%
Eastern	59.6%	0.1%
Northern	74.6%	0.2%
Northwest	61.2%	0.1%
Southwest	54.0%	0.1%

- 18 out of 133 Localities have a fully vaccinated rate below 50%
- 18 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

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

Virginia and Neighbors: Vaccination Rates

Updated 6/29/22



	At Least One Dose*	Fully Vaccinated*	First Booster Dose**
Nationwide	78.1% (+0.3%)	66.9% (+0.3%)	47.3% (+0.9%)
D.C.	95% (+0%)	76.2% (+-3.2%)	40.8% (+-1.2%)
Kentucky	66.6% (+0.2%)	57.8% (+0.2%)	45.1% (+0.4%)
Maryland	87.3% (+0.2%)	76.4% (+0.3%)	52.2% (+0.8%)
North Carolina	85.6% (+0.5%)	62.4% (+0.5%)	27.3% (+1.1%)
Tennessee	62.6% (+0.2%)	55% (+0.4%)	45% (+0.7%)
Virginia**	86.5% (+0.2%)	74% (+0.3%)	48.4% (+0.8%)
West Virginia	65.5% (+0.3%)	58.1% (+0.3%)	46.6% (+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

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