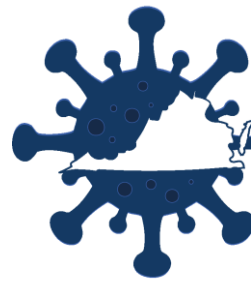

Virginia COVID-19 Surveillance Data Update

November 18, 2021



**VIRGINIA'S
HEALTH
IS IN OUR
HANDS.**

Do your part,
stop the spread.

World: COVID-19 Case Rates in Surging European Countries

Delta and its subvariants are surging through Europe. CDC states 3 possible reasons for this:

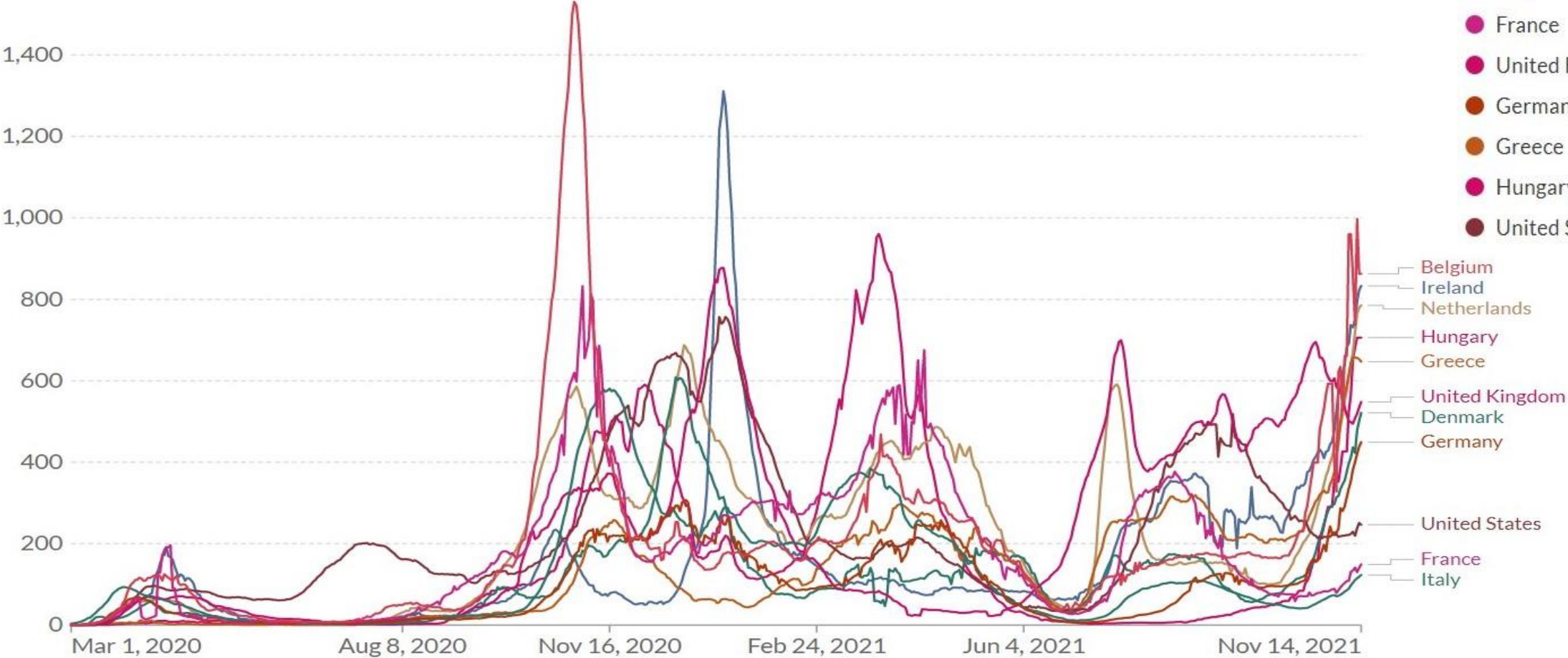
- 1. Winter Seasonality (Countries impacted see an earlier winter)
- 2. Low Vaccination Rates (Population is not significantly vaccinated)
- 3. Differing COVID-19 Vaccination Guidelines for Schools (Child population is just starting to be vaccinated, no masking policies in schools)

Vaccination rate by Country

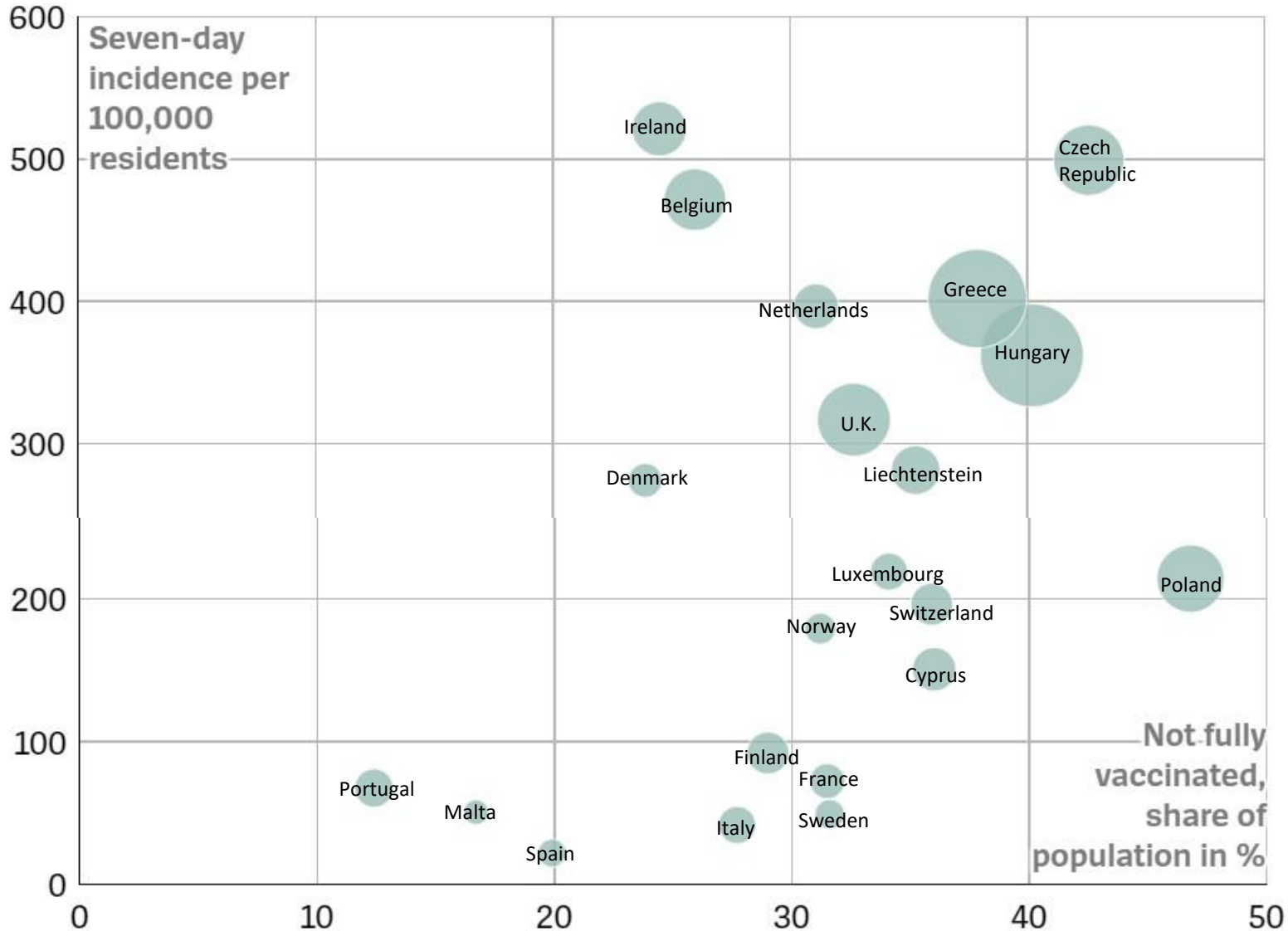
Nov 11, 2021

Denmark	76.14%
Ireland	75.53%
Belgium	74.05%
Italy	72.36%
France	68.55%
United Kingdom	67.39%
Germany	66.85%
Greece	62.16%
Hungary	59.88%
United States	57.55%

7 Day Confirmed Case Rates Per Million People



Incidence Rates, Vaccination Progress and Deaths in the EU



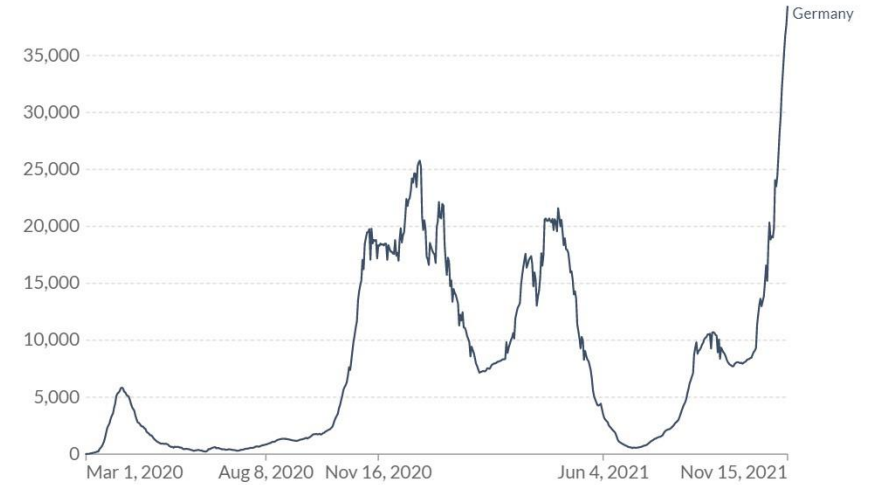
COVID-19 Cases in Germany

Daily new confirmed COVID-19 cases

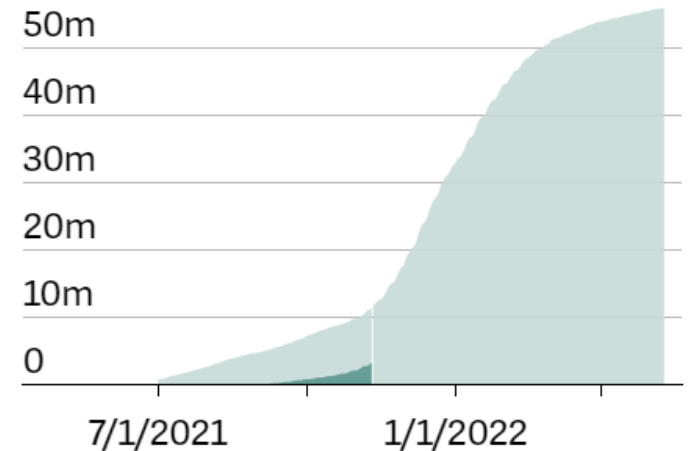
7-day rolling average. Due to limited testing, the number of confirmed cases is lower than the true number of infections.



LINEAR LOG + Add country

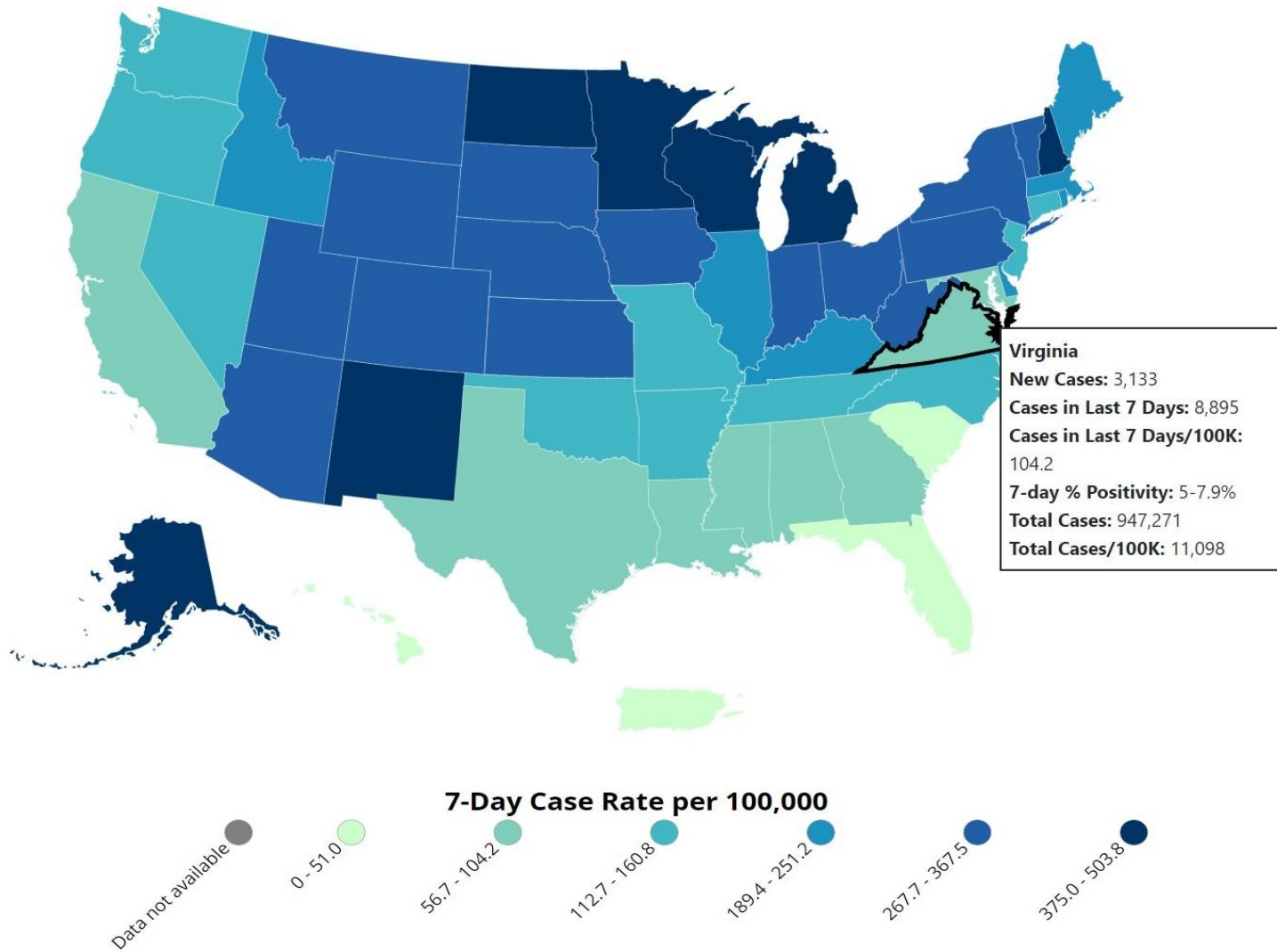


Actual Booster Uptake vs. Those Entitled to Boosters in Germany



*Data and Estimations: [Robert Koch Institute](https://www.rki.de)

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



	Cases in the Last 7 Days Per 100k Population
Virginia	104.2 (-3.5%)
U.S.	176.4 (+9.6%)
Michigan	503.8 (+59.4%)
Minnesota	490.2 (+16.7%)
New Mexico	461.7 (+8.9%)

Our Neighbors

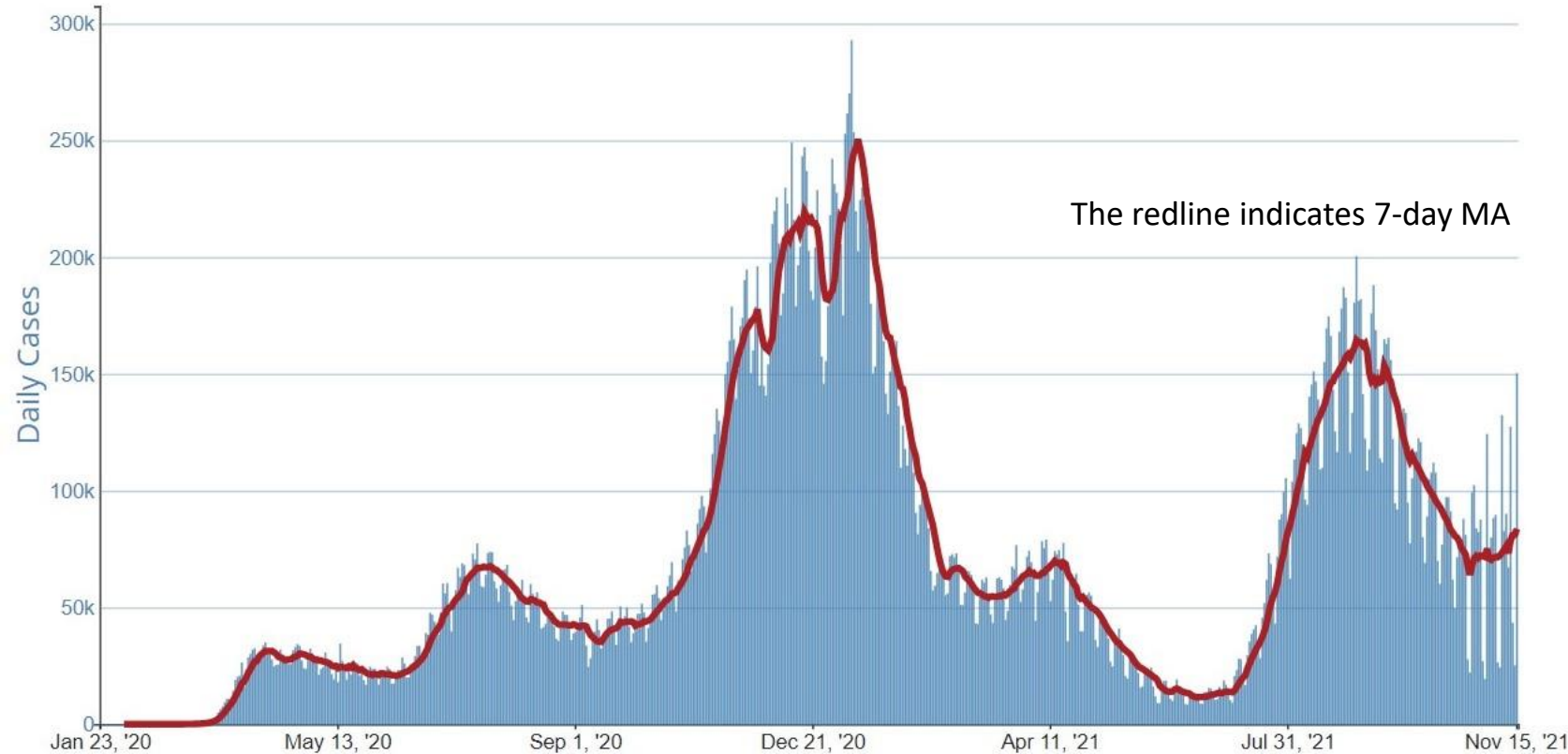
Rates Higher than Virginia

- West Virginia, **278.1** (-3.7%)
- Kentucky, **207.9** (+20.2%)
- Tennessee, **124.7** (+11.3%)
- North Carolina, **117.3** (+0.3%)

Rates Lower than Virginia:

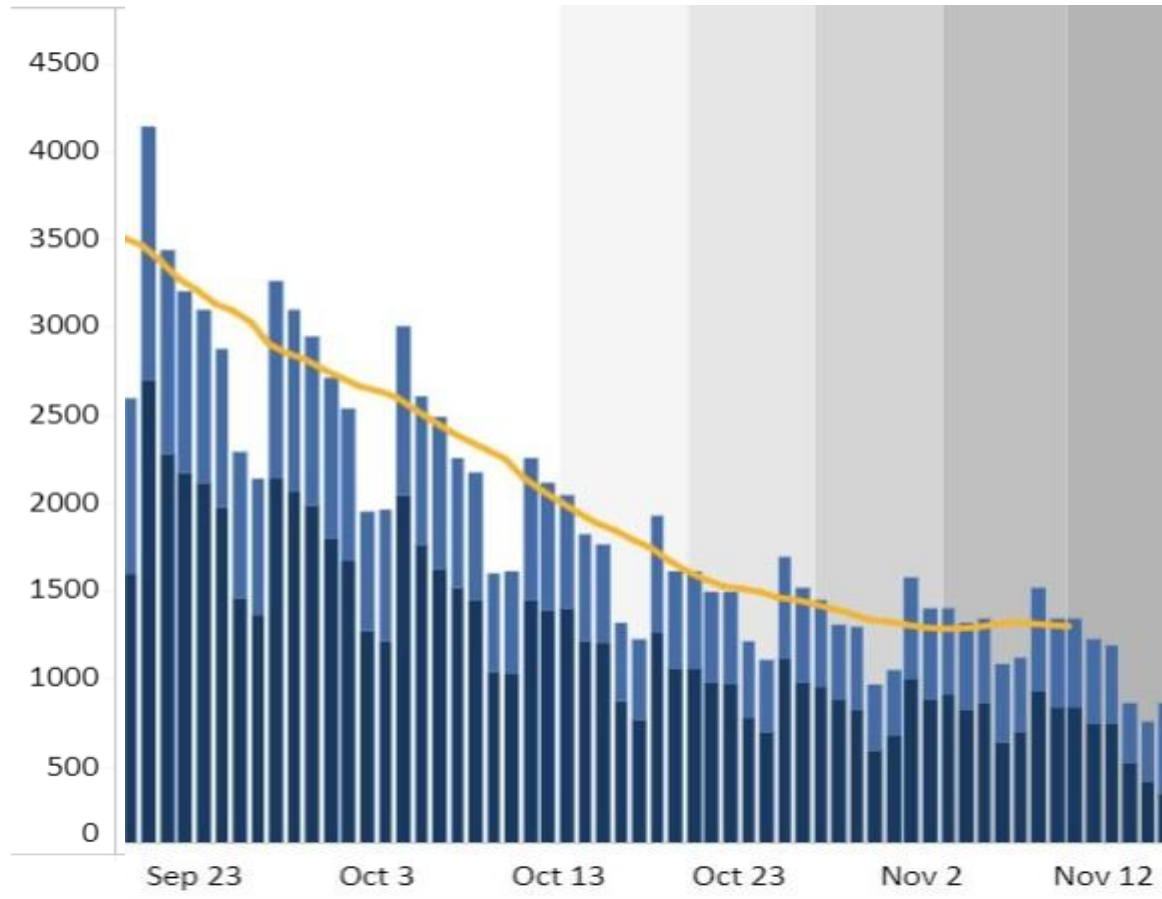
- Maryland, **98.6** (+14.3%)
- District of Columbia, **81.2** (+2.9%)

Daily Trends in Number of COVID-19 Cases in The United States Reported to CDC



- Compared to last week, **cases** increased to 83,671 (7-day MA) per day (+14.1%)
 - 66.6% lower than the January peak of 2021
 - 54.7% higher than the March low of 2021
- **Hospitalizations** decreased to 39,994 per day (-1.3%)
- **Deaths** decreased to 1,052 per day (-0.2%)

Cases by Date of Symptom Onset, last 60 days

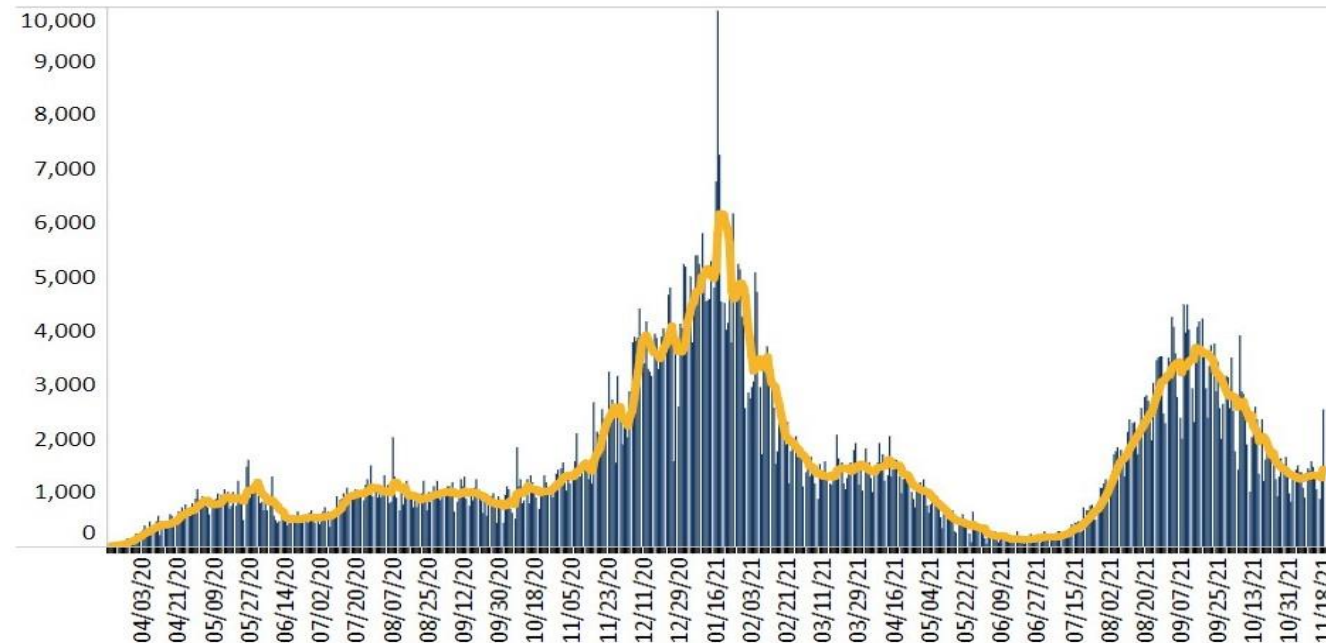


Gray shaded area illness may not have been reported yet

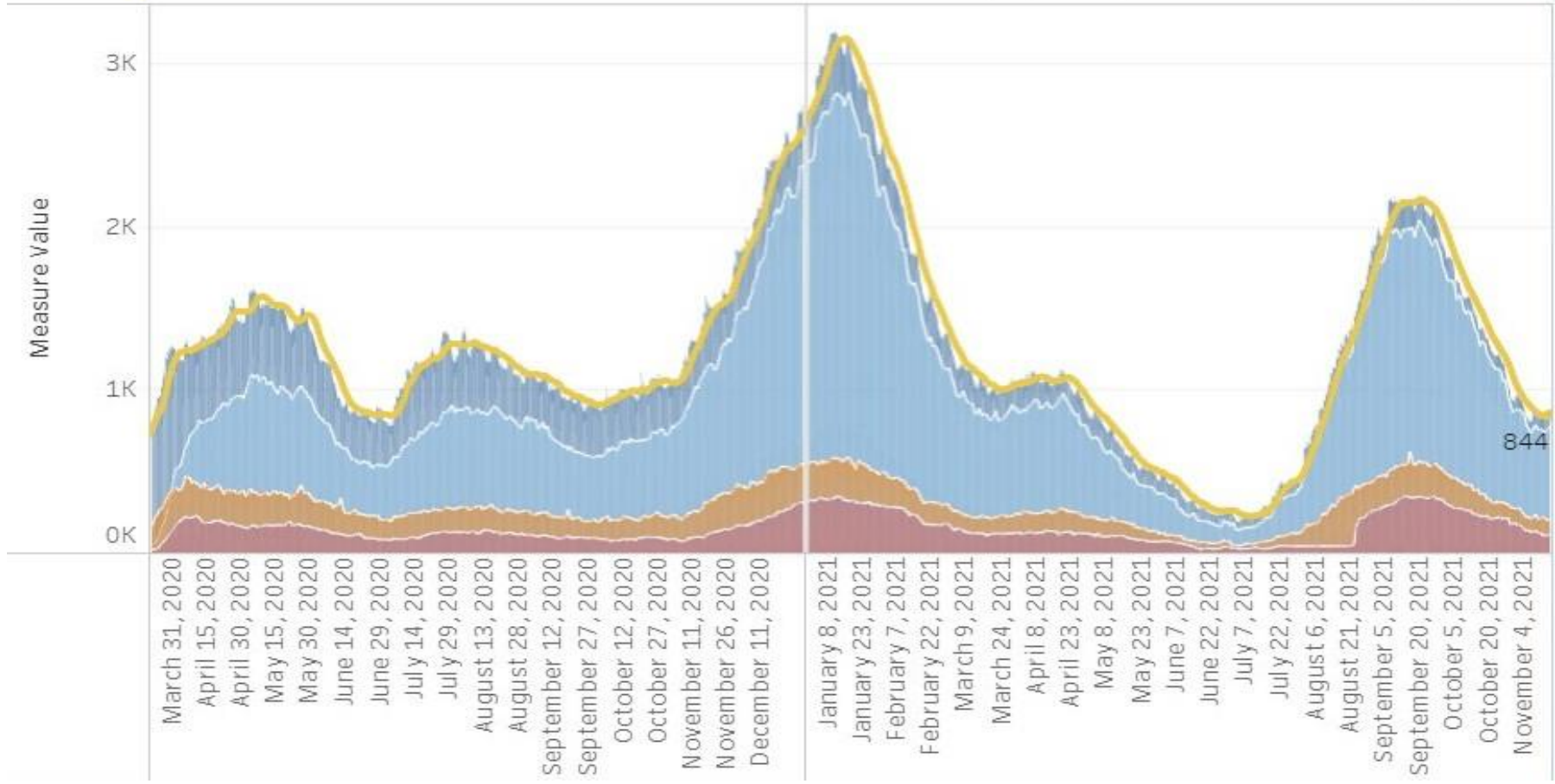
Compared to last week, **cases** increased to 1,431 (7-day MA) per day (+10.0%)

- 77% lower than the January peak of 2021
- 11% higher than the March low of 2021
- 1009% higher than the June low of 2021
- **Hospitalizations** decreased to 843.9 per day (-3.1%)
- **Deaths** decreased to 26 per day (-27.8%)

Cases, All Reporting Timeline



Hospitalization Trends



- Confirmed COVID-19 Patients Currently on Ventilator Support*
- ICU Hospitalizations (Confirmed + Pending)
- CONFIRMED Hospitalizations
- Total Current COVID Hospitalizations (Confirmed + Pending)
- 7 Day Moving Average of COVID-19 Current Hospitalizations (Confirmed + Pending)

843.9
7-day Average Current Hospitalizations

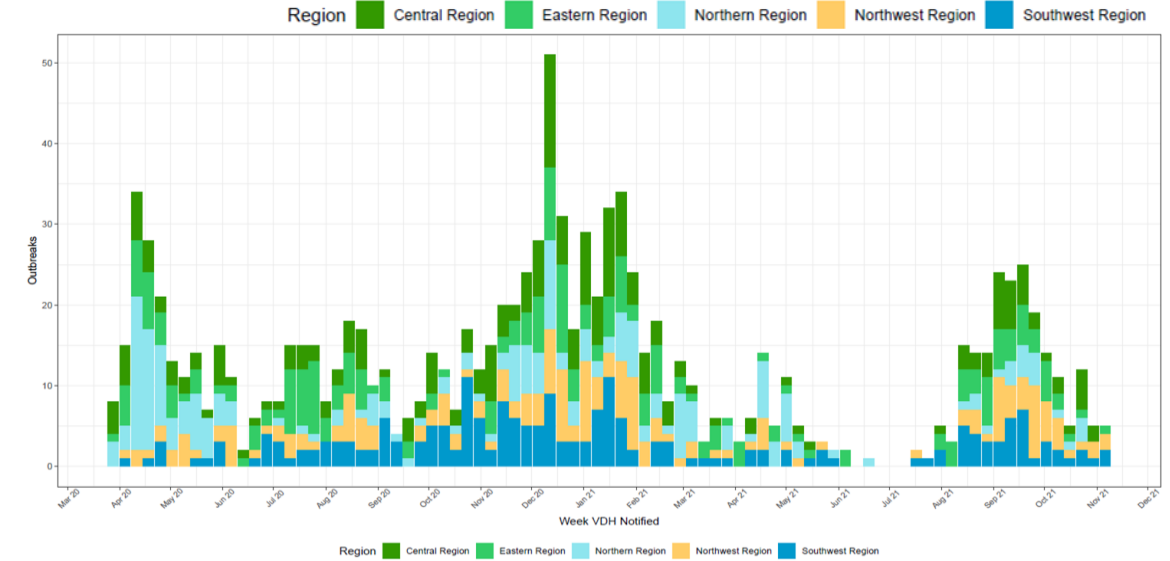
-3.1%
% Change in 7-day Average

-73.2%
% Change from peak 7-day Average (Jan 2021)

Key Trends

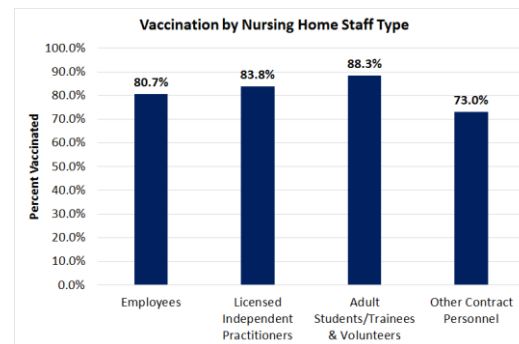
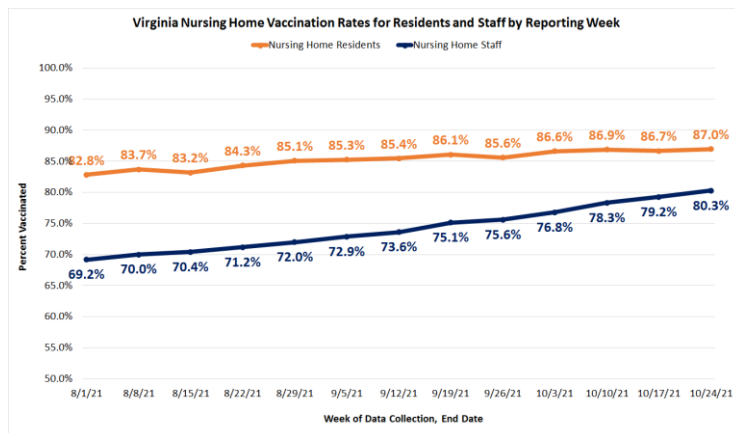
- Outbreaks in LTCFs have accounted for 24% of total COVID-19 outbreaks in Virginia.
 - There were **38 LTCF COVID-19 outbreaks reported in the past 30 days**: 10 in Central, 9 in Northwest, 8 in Southwest, 6 in Northern, and 5 in Eastern (see figure top right).
- The number of reported resident and staff cases have been declining in the last few weeks (see figure bottom right).
 - For the reporting week ending October 31, 2021, **62 resident and 65 staff cases were reported to NHSN**.
- For reporting week ending October 24, 2021, data reported from 278 nursing homes showed **87% of residents were fully vaccinated**; data reported from 276 nursing homes showed **80% of staff were fully vaccinated** (see figure bottom left).
 - From week ending August 1 to October 24, 2021, vaccination in nursing home staff increased from 69% to 80%; vaccination in nursing home residents increased from 83% to 87%.
 - For the week ending October 24, 2021, 81% of nursing home employees (staff on facility payroll) were fully vaccinated; only 73% of other contract personnel were fully vaccinated.

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



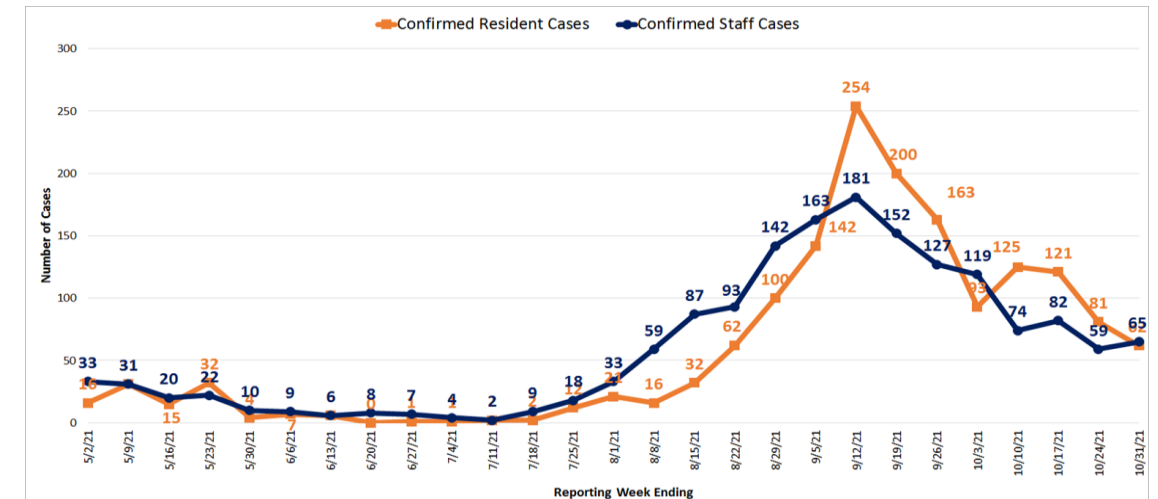
Includes outbreaks reported from nursing homes, assisted living facilities, and multicare facilities to VDH with a confirmed or suspected etiologic agent of SARS-CoV-2; updated 11/8/2021.

Current COVID-19 Vaccination in Virginia Nursing Homes (n=286)



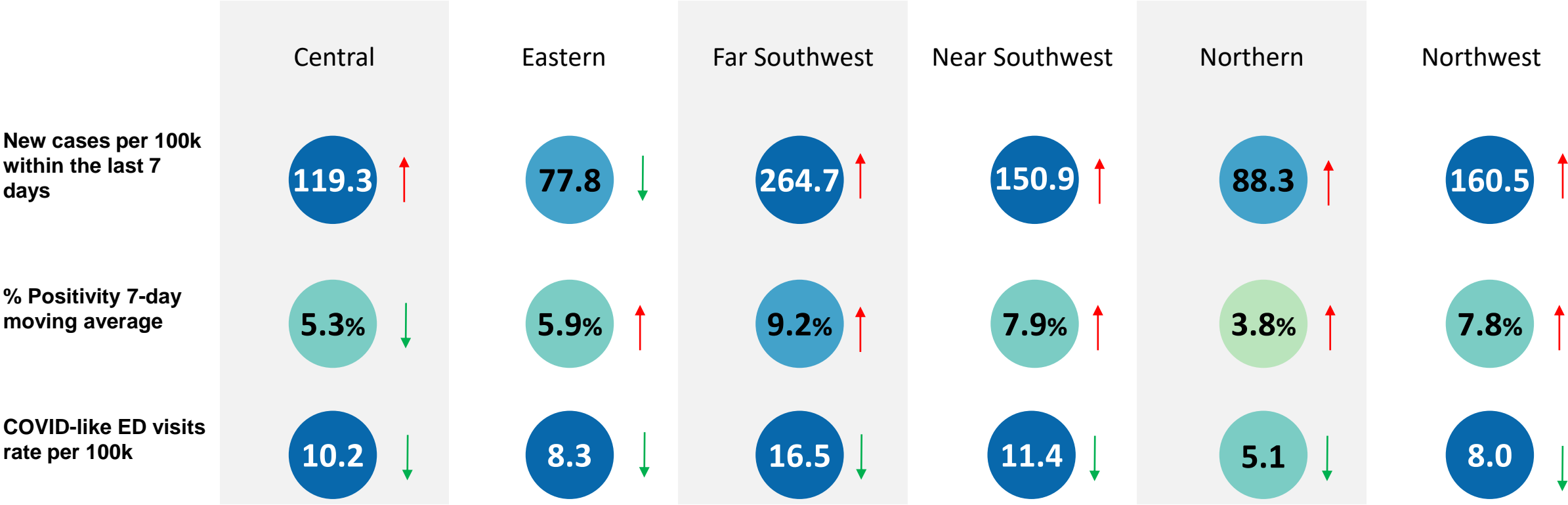
Data are from the National Healthcare Safety Network (NHSN) as of 11/9/2021 and are subject to change. In Virginia, 278 nursing homes reported resident vaccination data for the reporting week ending 10/24/2021; 276 nursing homes reported staff vaccination data for the reporting week ending 10/24/2021. For staff type definitions, please refer to the [NHSN Table of Instructions](#).

Nursing Home Resident and Staff COVID-19 Cases



Data are from NHSN as of 11/9/2021 and are subject to change. For the reporting week ending 10/17/2021, a reporting error was identified and removed from the total resident case count. For reporting information, please refer to the NHSN data collection forms: [residents](#), [staff](#).

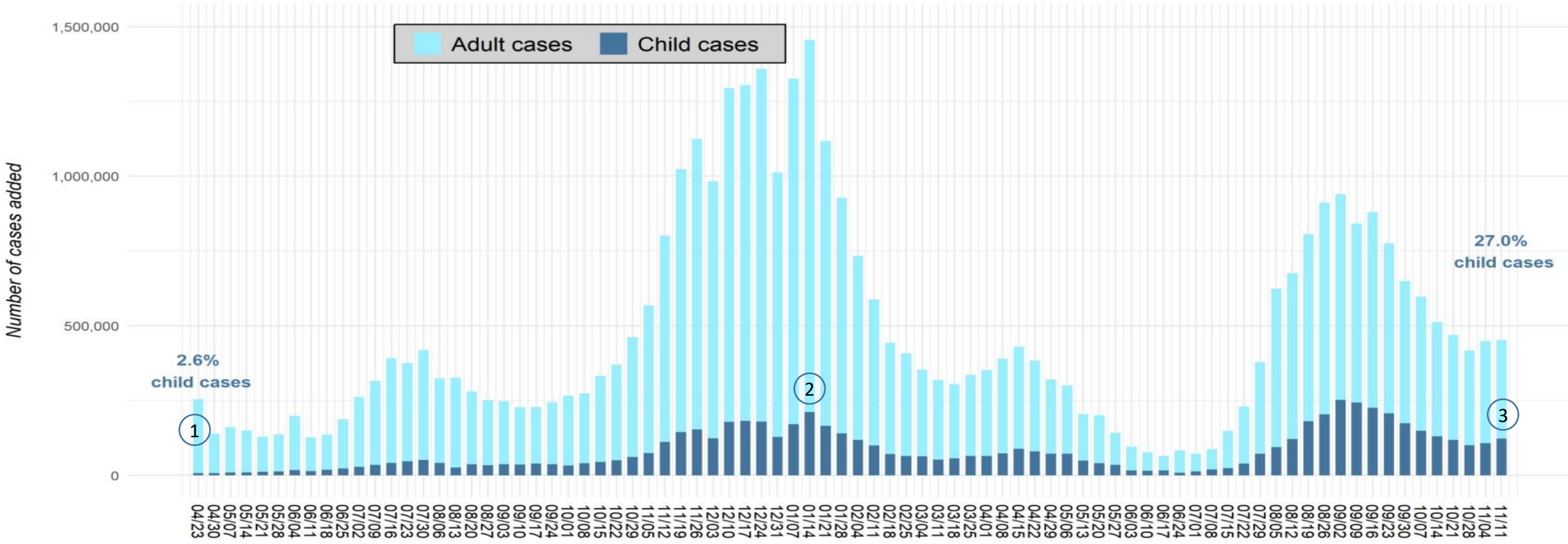
Metrics date: 11/17/2021



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

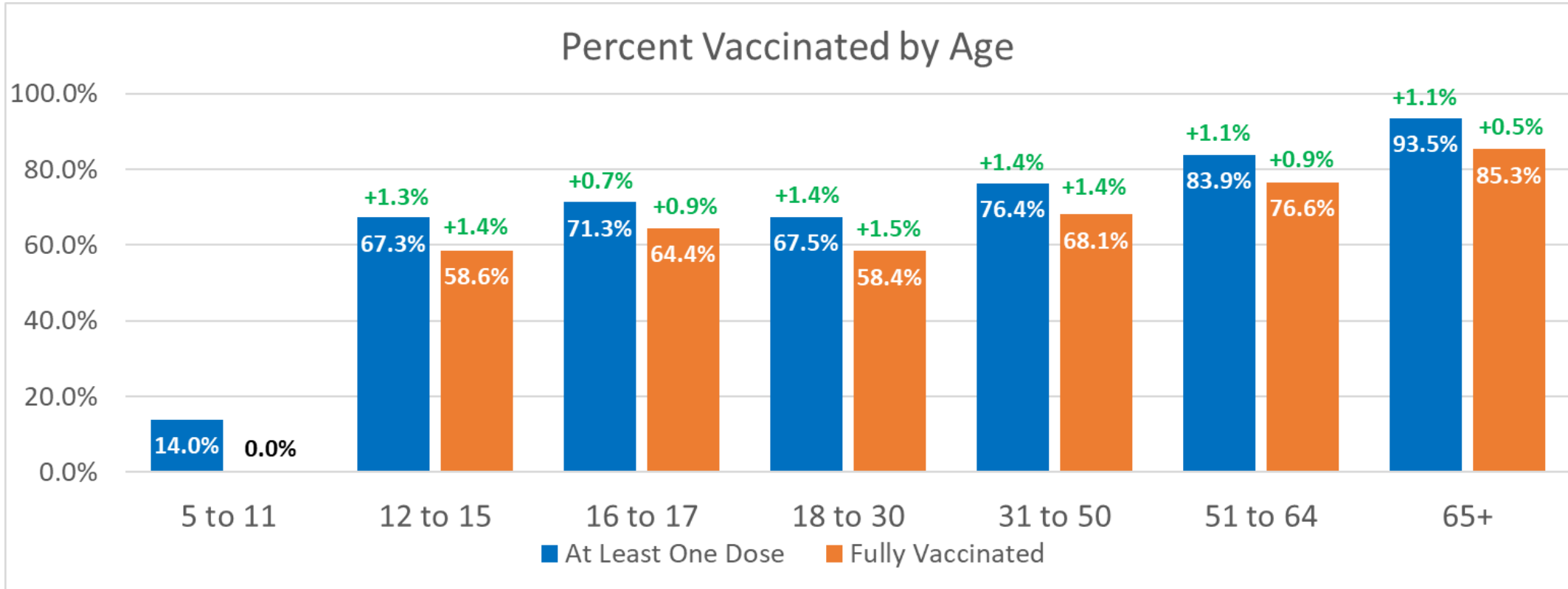
Symbol	Trend
↑	Increasing
↓	Decreasing
○	Fluctuating

Source: [Region Metrics – Coronavirus](#)
 Data represents a 7-day moving average, trends compared to 1 week ago



Over the last two weeks, 10/28/21-11/11/21, there was a 4% increase in the cumulated number of child COVID-19 cases since 4/23/20

1. At the beginning of the pandemic only **2.6%** of total COVID-19 cases were in children.
2. At the pandemic peak in January 2021, the highest percentage of total cases in children was **15%**.
3. In the week ending on 11/11, **26.8%** of total COVID-19 cases were in children.
 - Cases in children have increased **11.8%** from what they were during the previous pandemic peak in January 2021.
 - Cases in children have increased **25%** from the pre-Delta low of **2%** on 6/24 as of 11/11/21

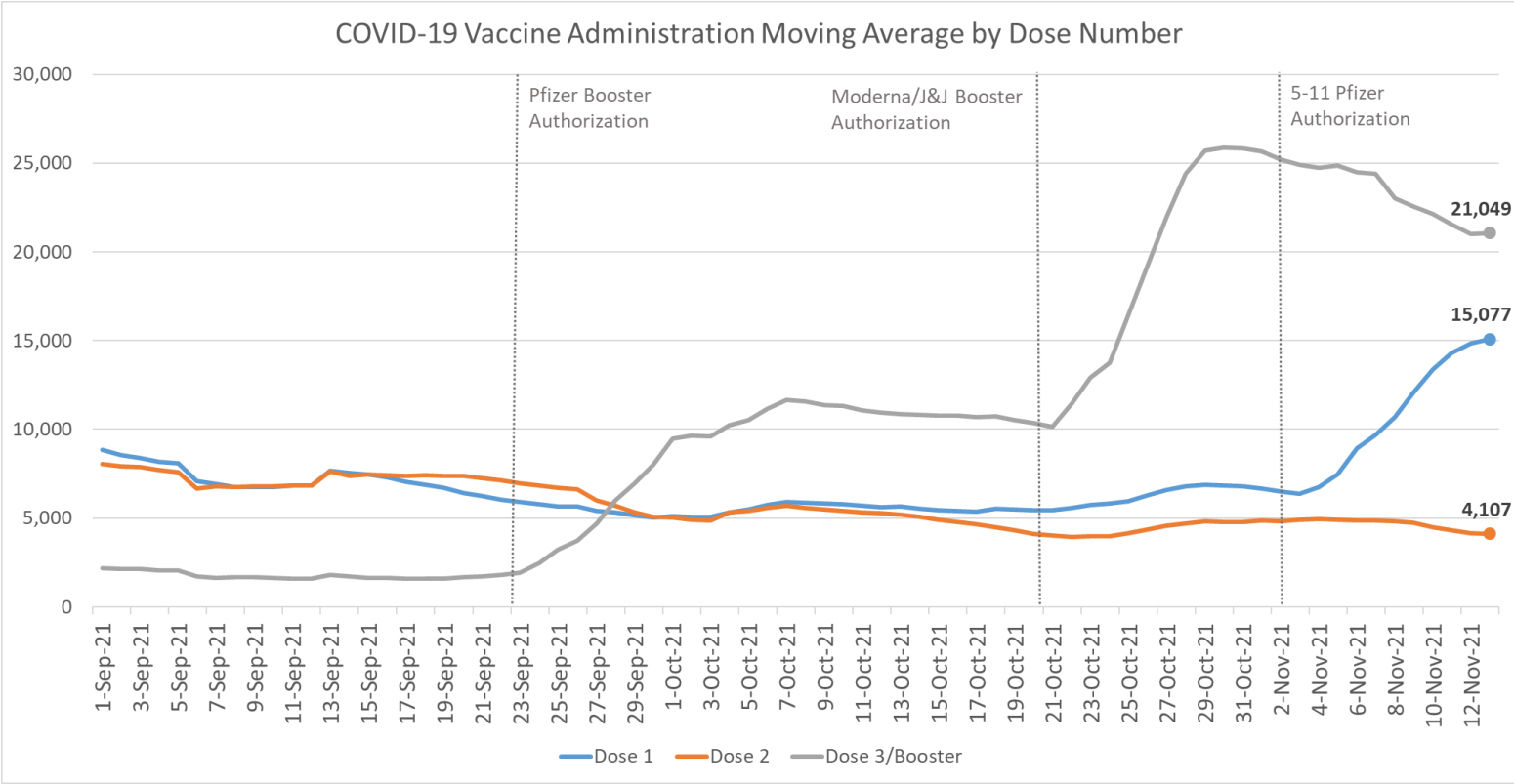


Virginia Vaccination by Age

- ✓ **84.6% (+1.7%)** of the Adult (18+) Population Vaccinated with at Least One Dose
- ✓ **67.9%** of the Eligible (5+) Population Fully Vaccinated (Eligible Population is now 5+)
- ✓ **93.5% (+1.7%)** of Virginians 65+ and **68.6% (+1.3%)** of 12 to 17 year olds have received at Least One Dose
- ✓ **63.9% (+1.5%)** of the Total Population has been Fully Vaccinated
- ✓ **14.0%** of 5 to 11 year olds have received at Least One Dose
- Green percent represents percent increase from two weeks prior

First Dose Administrations Are Increasing

- First Dose administrations are seeing a large increase following 5-11 Pfizer Authorization; Second Dose Administrations remain relatively constant
- Third Dose/Booster administrations are falling after seeing a very sharp increase following Moderna/J&J Booster Authorization

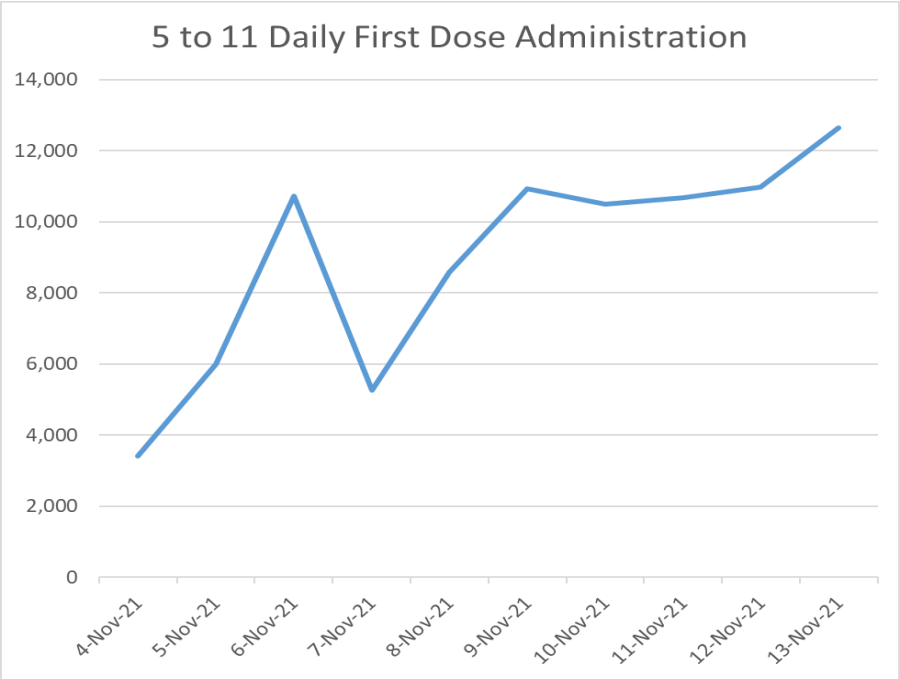


Federal doses not included in this number

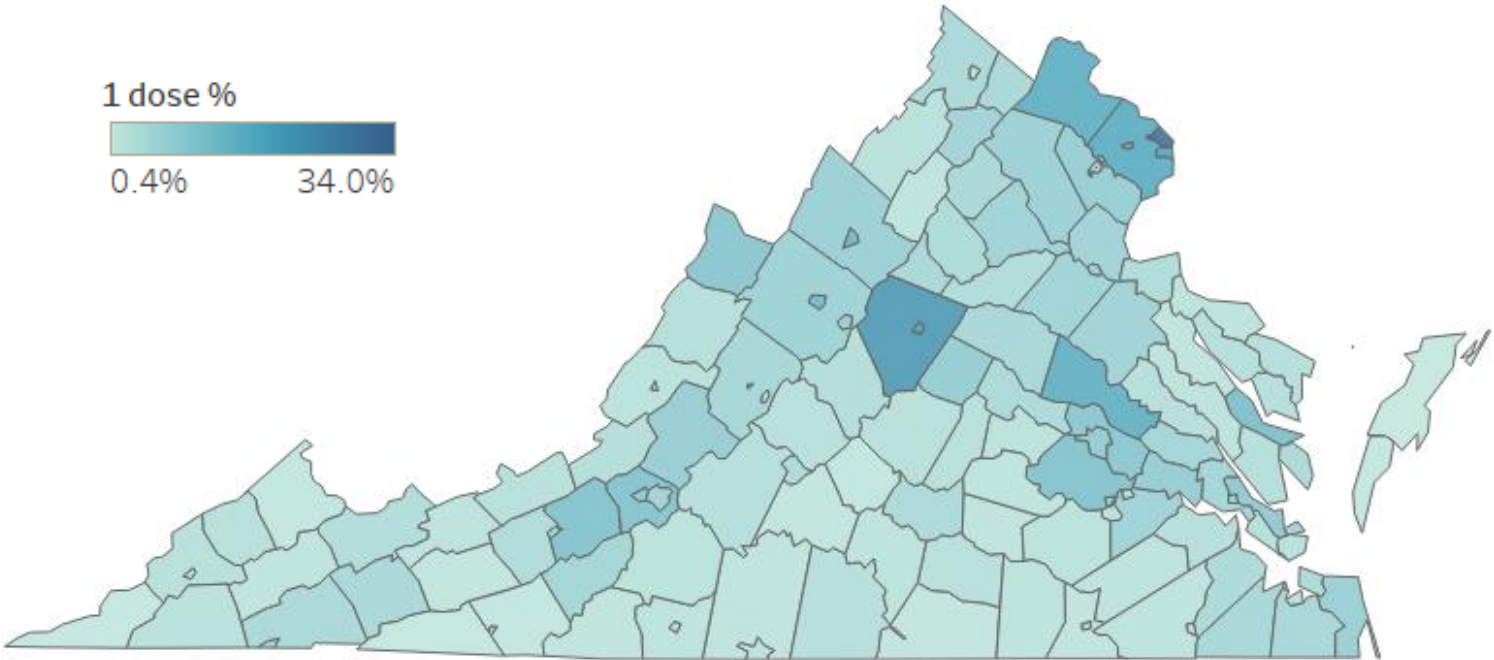
Source: [COVID-19 Vaccine Summary – Coronavirus \(virginia.gov\)](https://www.virginia.gov/health/covid-19/vaccine/)

5-11 First Dose Administrations steadily increasing. but uptake varies widely by Geography

Vaccinations continue to increase statewide

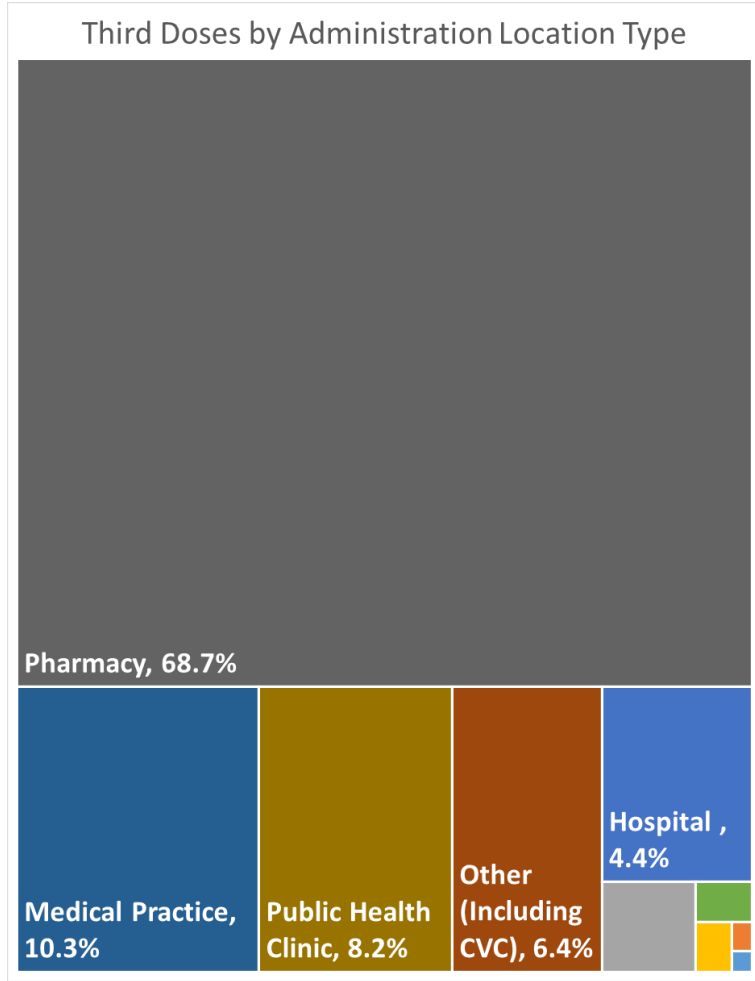
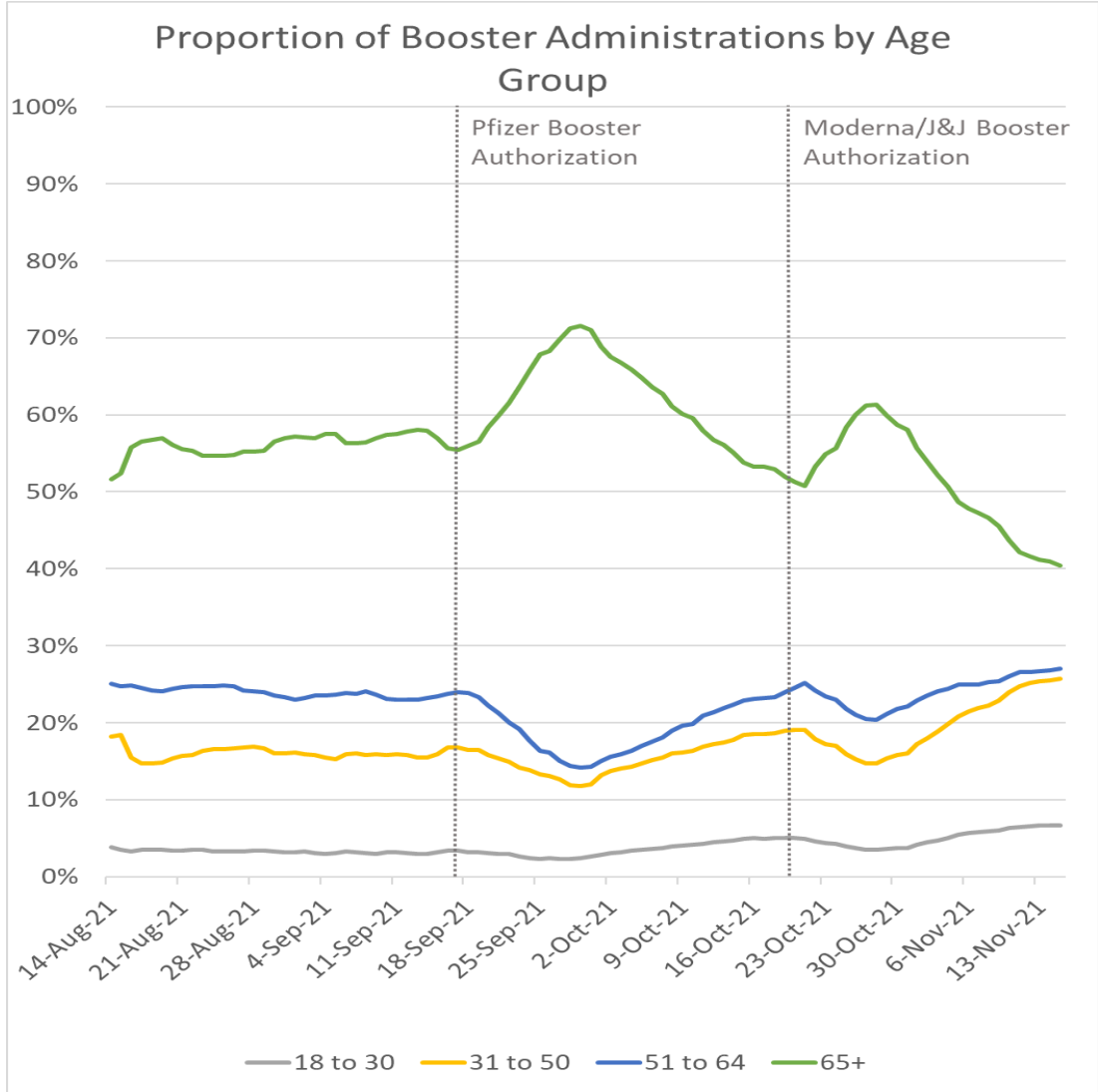
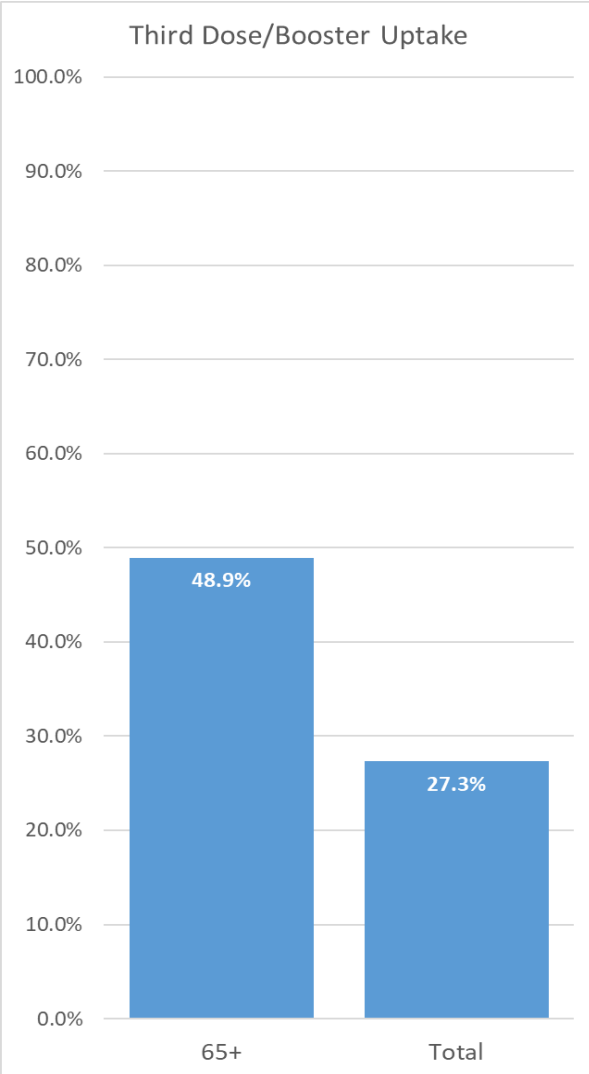


First Dose Vaccination Rate by Locality shows Large Geographic Disparity



Federal doses not included in this number
Source: [COVID-19 Vaccine Summary – Coronavirus \(virginia.gov\)](https://www.virginia.gov/covid-19/vaccine/)

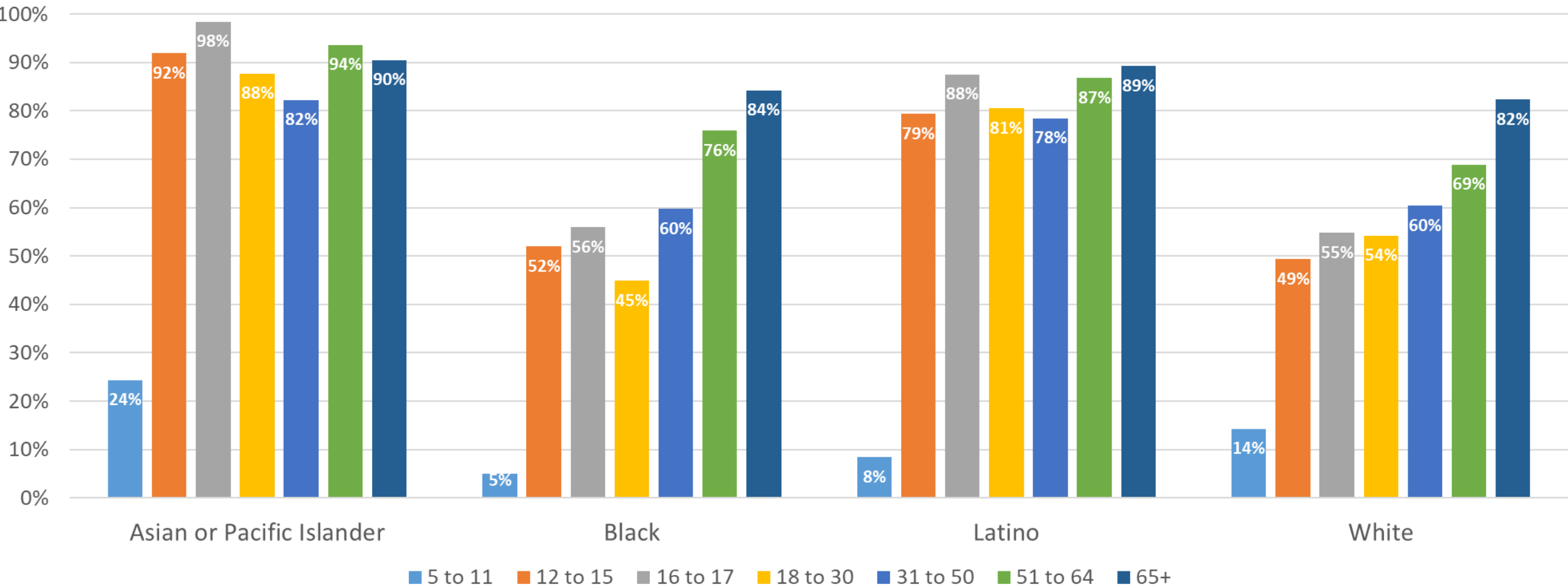
Third Dose/Booster Metrics show high uptake by Senior Citizens, with over Two-Thirds of Boosters being administered at Pharmacies



Federal doses not included in this number

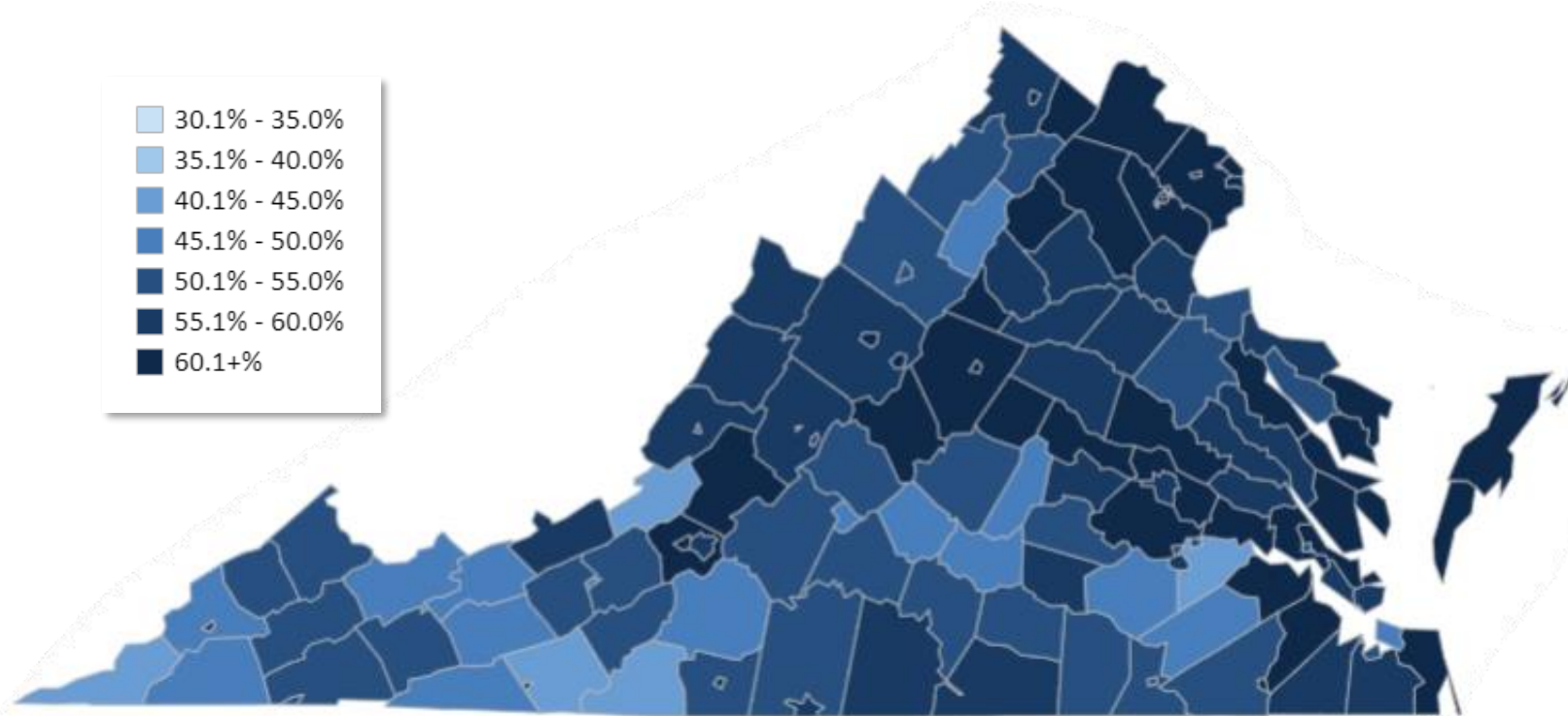
Source: [COVID-19 Vaccine Summary – Coronavirus \(virginia.gov\)](https://www.virginia.gov/covid-19/vaccine-summary)

First Dose Vaccination Rates by Race/Ethnicity and Age Group



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

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



First Dose Vaccination Rate by Region for Total Population

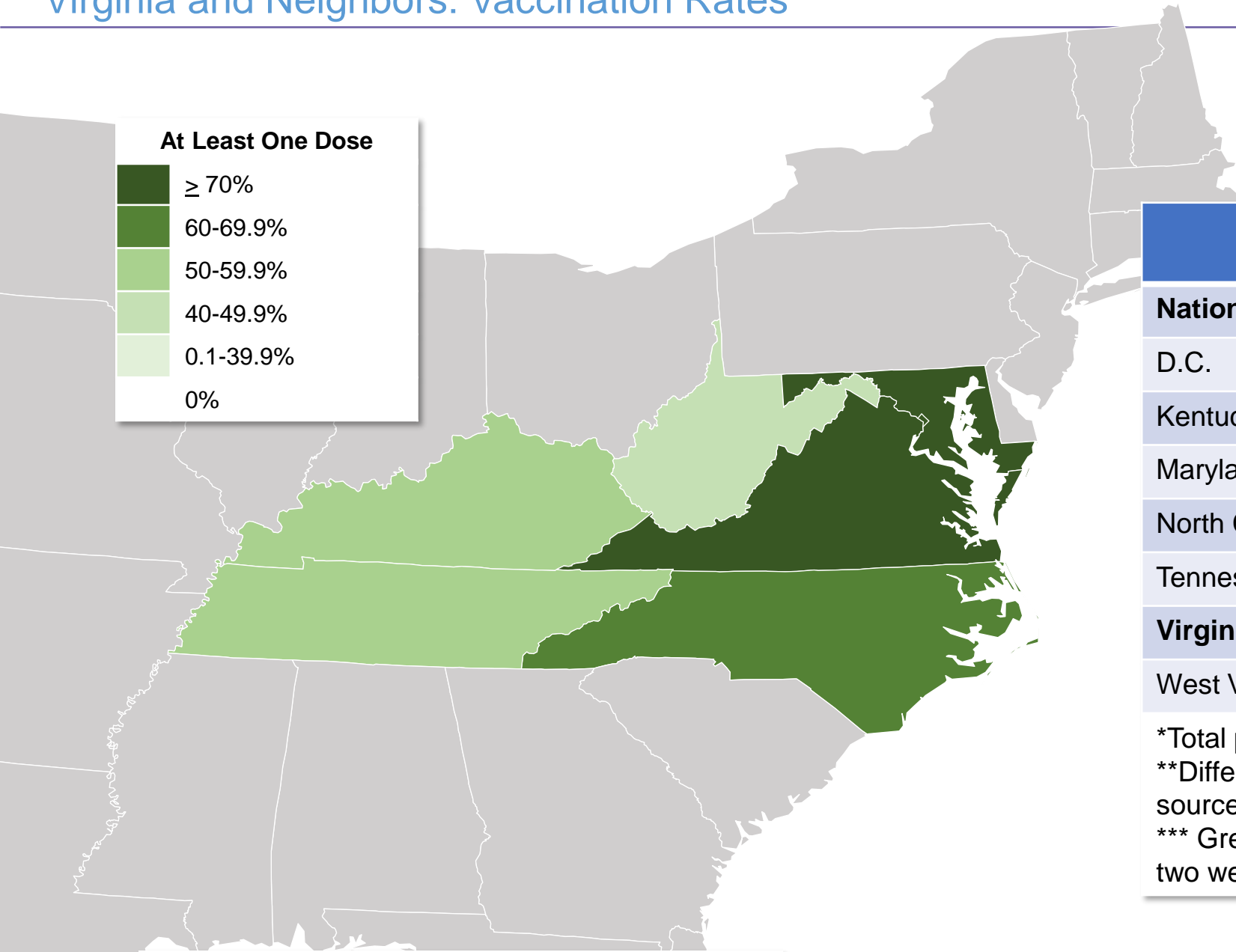
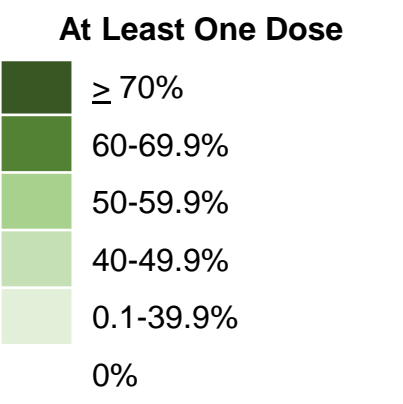
Region Name	1st Dose Vaccination	% Change 2 Weeks
Central	61.6%	+2.5%
Eastern	58.7%	+2.2%
Northern	72.2%	+3.9%
Northwest	59.6%	+2.5%
Southwest	53.0%	+1.8%

- 21 (-7 over 2 weeks) out of 133 Localities have a first dose vaccination rate below 50%
- 24 (+3 over 2 weeks) out of 133 Localities have a first dose vaccination rate above 65%
- There is a disparity across Urban and Rural areas by Age Groups, with Rural Adolescents the Lowest Vaccinated group

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	16%	67%	74%	69%	70%	81%	85%	61%
Urban	14%	70%	77%	61%	73%	81%	94%	70%
Mixed Rural	10%	49%	56%	54%	60%	71%	81%	58%
Rural	5%	40%	47%	48%	54%	67%	90%	69%
Grand Total	13%	62%	69%	60%	68%	77%	88%	66%

Federal doses not included in this number

Source: [COVID-19 Vaccine Summary – Coronavirus \(virginia.gov\)](https://www.virginia.gov/covid-19/vaccine-summary)



	At Least One Dose*	Fully Vaccinated*
Nationwide	68.6% (+2.5%)	58.9% (+1.4%)
D.C.	78.1% (+4.1%)	63.6% (+1.6%)
Kentucky	58.9% (+2.3%)	51.5% (+1.4%)
Maryland	74.0% (+1.2%)	66.8% (+0.8%)
North Carolina	67.5% (+4.2%)	53.6% (+1.5%)
Tennessee	55.8% (+2.0%)	48.9% (+2.3%)
Virginia**	73.6% (+3.2%)	64.1% (+1.4%)
West Virginia	53.7% (+9.6%)	41.5% (+1.2%)

*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 two weeks prior