

# WEEKLY COVID-19 REPORT FOR EXTERNAL USE

WEEK OF: MONDAY, MAY 30, 2022

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## KEY TAKEAWAYS

### Cases

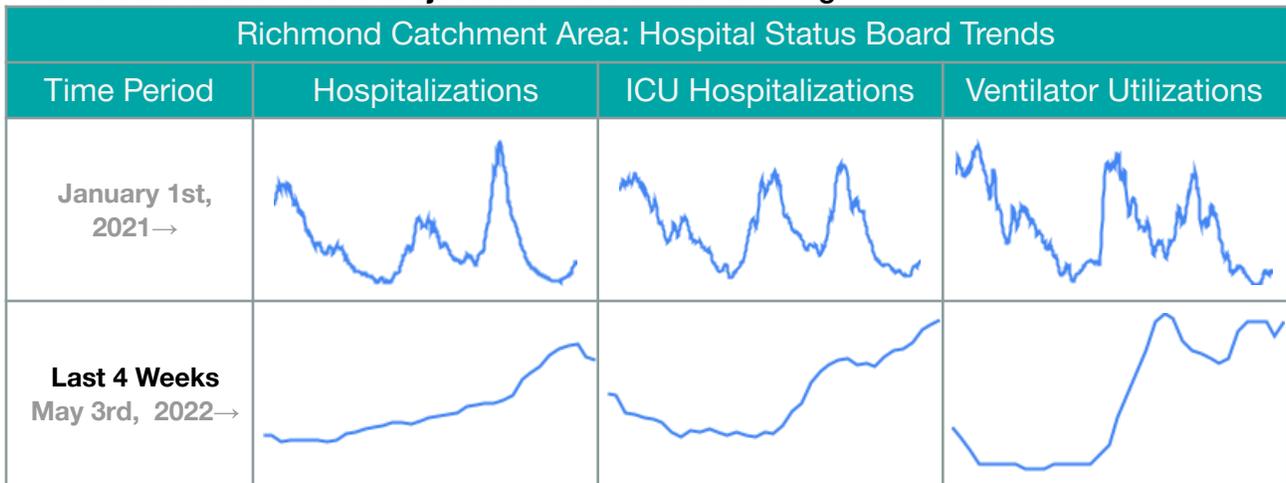
According to the [CDC Covid Data Tracker](#), cases are **increasing** in Richmond but **decreasing** in Henrico in recent weeks. In both localities, the [CDC COVID-19 Community Level](#) is **High**.

7-day total case rate per 100,000		
District	This Week	1 Week Ago
Henrico	<b>287.77</b>	<b>316.19</b>
Richmond	<b>267.32</b>	<b>249.53</b>

Richmond & Henrico	
Demographic	Cumulative Highest
<b>Age</b>	20-29 Year Olds
<b>Sex</b>	Female
<b>Race</b>	Latino & Black

### HOSPITALIZATIONS & FATALITIES

Among hospitals in the Richmond Catchment Area, **hospitalizations** have begun to **increase** in the last four weeks. **Fatalities** appear to have fallen every month since **January** in both districts. **Data related to deaths are subject to sizable amounts of lag.**



- 9 out of 11 hospitals in the Richmond Catchment Area are operating at a 'Conventional' clinical status, while 2 are operating at 'Contingency' status.

## VACCINATIONS

In Richmond City and Henrico County Health Districts, anyone aged 5 or older is eligible to receive a vaccine. Pharmacies appear to be administering the largest percentage of vaccines to Richmond and Henrico residents, compared with other providers.

Local Vaccination Stats & Regional Comparison			
Location	≥ 1 Dose	Complete	Booster
<b>Richmond City &amp; Henrico County</b>	<b>71.6%</b>	<b>66.7%</b>	<b>36.4%</b>
Region	73.2%	68.3%	36.5%

Vaccination Demographic Trends		
Demographic	Richmond City	Henrico County
<b>Age Groups</b>	30+	12+
<b>Sex</b>	Female	
<b>Race</b>	Asian/Pacific Islander & Latino	

In both Richmond and Henrico, older age groups have consistently been vaccinated at a higher rate than younger age groups. Section 4 includes an estimated breakdown of vaccination uptake by race and age subgroups.

## 1.0 COVID-19 SNAP SHOT

### 1.1 Total Tests & Percent Positivity by Modality in Richmond and Henrico

PCR testing and the associated 7-day average in percent positivity are summarized in the table below. Data is from the [VDH public dashboard](#) on May 30, 2022.

	RICHMOND CITY		HENRICO COUNTY	
	Tests	Positivity	Tests	Positivity
PCR*	415,454	21.1%	677,114	19.6%

*Recent changes implemented by VDH on March 15th, 2022 may have impacted allocation of tests to districts, shifting cumulative totals. On April 11, 2022 VDH transitioned to PCR testing as the primary indicator over other modalities.*

### 1.2 Confirmed Cases, Hospitalizations, Fatalities, & Probable Cases by County

CASE STATUS	RICHMOND CITY	HENRICO COUNTY	VIRGINIA
New cases this week (May 30)	644	957	23,848
All cases	47,726	69,928	1,787,756
Confirmed cases	35,227	45,166	1,279,730
Hospitalizations	1,068	1,411	48,607
Deaths	442	821	17,012
Probable cases	12,499	24,762	508,026
Hospitalizations	37	67	3,128
Deaths	73	118	3,377
Case rate per 100,000	20711.2	21137.9	20944.9

*Weekly cases added are estimated as the difference between the cases recorded from the current and prior week*

*Case Rate per 100,000=(confirmed+probable)/population count \*100,000.*

*Population estimates for the case rate are from 2019 data compiled by the National Center for Health Statistics (NCHS).*

### 1.3 Current COVID-19 Richmond Catchment Area Hospitalizations

The following section utilizes data from the Virginia Healthcare Alerting & Status System (VHASS) COVID-19 Hospital Status Board. This data reflects the following hospitals in the Richmond Catchment Area (Chesterfield County, Hanover County, Henrico County, & Richmond City): VCU Health System, Retreat Doctors, Bon Secours Community, CWJ Chippenham, CWJ Johnson Willis, VA Medical Center, Bon Secours St. Mary's, Henrico Doctors, and Parham Doctors, Bon Secours St. Francis, and Memorial Regional Medical Center.

	TOTAL IN USE FOR COVID-19	CURRENTLY AVAILABLE
Confirmed Hospitalizations	129	143
Pending Hospitalizations	15	
Confirmed - ICU	22	50
Pending - ICU	0	
Confirmed - Ventilators	9	359
Pending - Ventilators	*	

\*This metric is unrelated to the CDC's measure of "Percent of staffed inpatient beds occupied by COVID-19 patients". The metrics are sourced differently and represent different geographic areas.

Between the 11 hospitals that comprise the Richmond catchment area, there are currently 143 total available hospital beds, 50 available adult ICU beds, and 359 available ventilators.

Based on the VHASS hospital dashboard on May 31st, 2022, nine hospitals in the Richmond Catchment area are operating at Conventional clinical status and two hospitals are operating at Contingency clinical status.

\*A clinical status of "conventional" indicates that the spaces, staff, and supplies used are consistent with daily practices within the hospital.

\*A clinical status of "contingency" indicates that the spaces, staff, and supplies used are not consistent with daily care but provide care that is functionally equivalent to usual patient care. Healthcare practices utilize limited resources differently than usual with the expectation that such altered practices are developed and performed in accordance with normal standards of care. In contingency conditions, this standard of care is maintained by providing care within the range of functionally equivalent options to care in conventional conditions.

\*A clinical status of "crisis" indicates that Crisis Standards of Care apply. Care is no longer functionally equivalent to usual standards of care. Risk to the patient or provider may exist.

## 2.0 COVID-19 CASES

### 2.1 Summary of Cases

After trending downward throughout late winter and early spring, **cases have risen since early May**. According to the CDC Covid Data Tracker, In Richmond, on May 16th, the **7-day total case rate** was **267.32** new cases per 100,000 population, while in Henrico the **7-day total case rate** was **287.77** new cases per 100,000 population. Additionally, in Richmond and Henrico the [CDC COVID-19 Community Level](#) has recently been upgraded from medium to **high**.

Female individuals in both Richmond and Henrico comprise a higher proportion of cases compared to male individuals, both in the last four weeks and cumulatively.

In Richmond, 20-39 year olds have the highest case rate by age group over the last four weeks. In addition, individuals aged 20-29 have the highest cumulative case rate in Richmond. In Henrico, individuals 80 and over show the highest case rates in the last four weeks, while 20-29 year olds have the highest cumulative case rate.

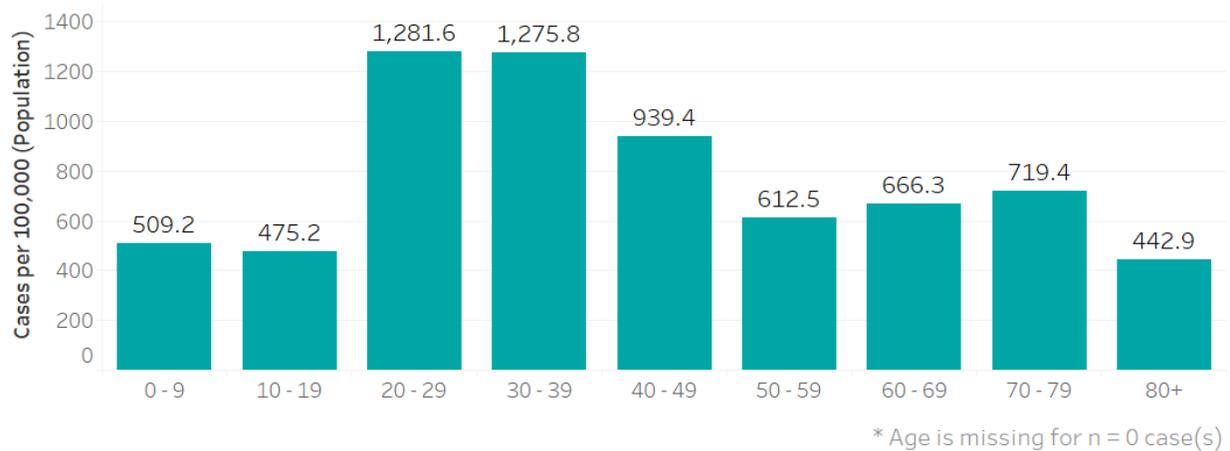
Regarding race and ethnicity in both Richmond and Henrico, White and Asian or Pacific Islander individuals have disproportionately high cases relative to their populations in the last four weeks, while Black individuals have disproportionately low cases in that same time period, a reversal of the proportions seen in cumulative case counts. In both localities, cases have been disproportionately high cumulatively for Latino individuals, but over the last four weeks, their case count has been disproportionately low in Richmond and Henrico.

## 2.2 Case Rates by Age Group by County

Population totals are based on 2019 data from the National Center for Health Statistics (NCHS).

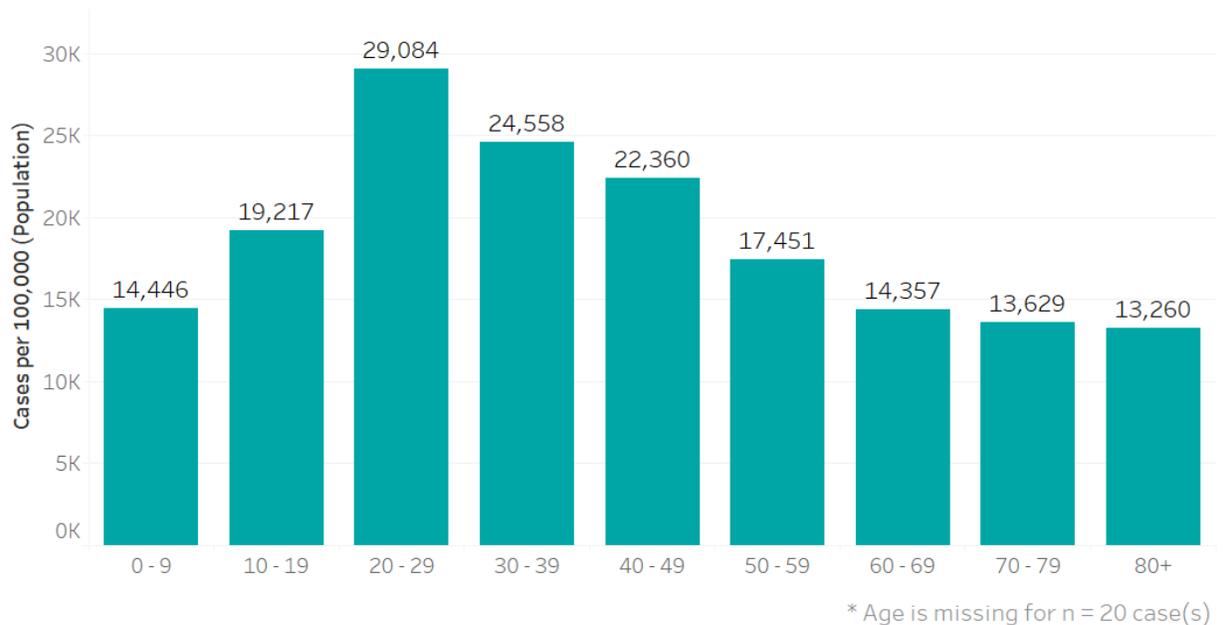
### COVID-19 Case Distribution by Age in the Last 4 Weeks

Richmond City, VA (n = 2,022); May 3, 2022 - May 30, 2022



### Cumulative COVID-19 Case Distribution by Age

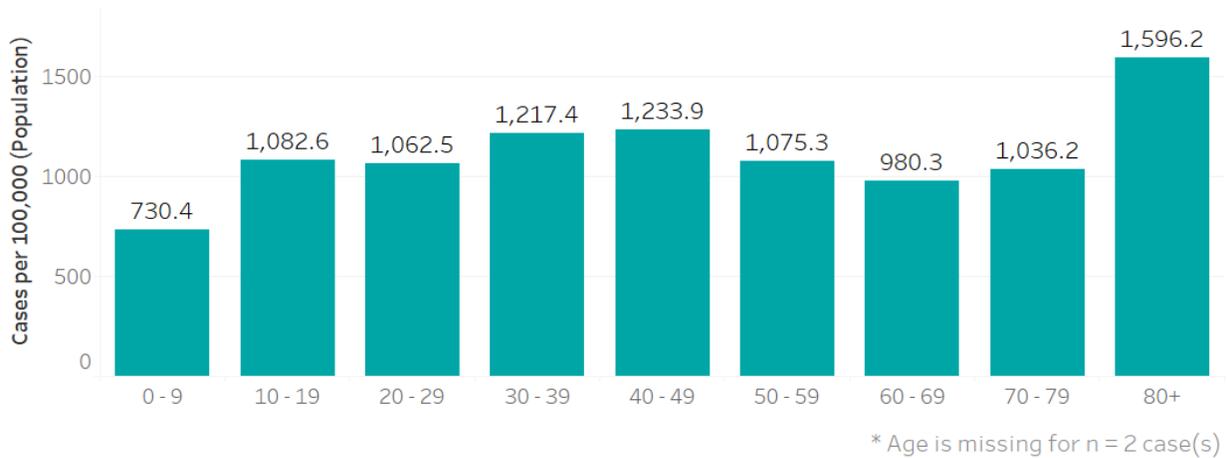
Richmond City, VA (N = 47,726); January 1, 2020 - May 30, 2022



- In Richmond City, individuals aged 20-29 have the highest case rates in the last four weeks, followed by individuals aged 30-39. Individuals aged 20-29 have the highest case rate cumulatively. A slight uptick can be noted in cases amongst individuals aged 70-79, over the last four weeks.

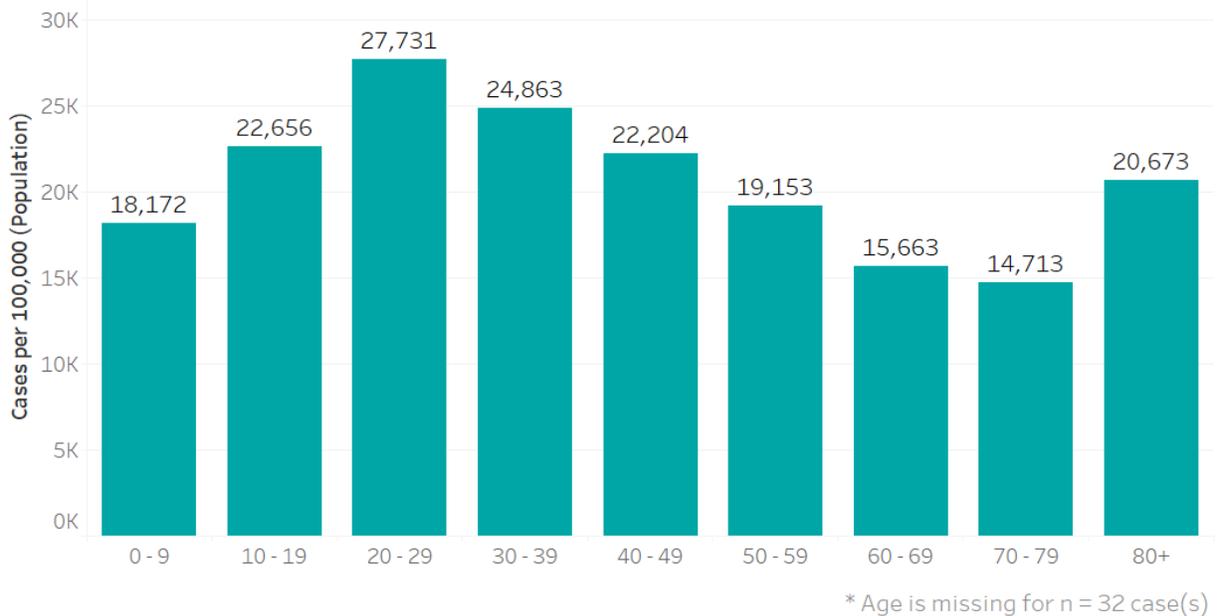
## COVID-19 Case Distribution by Age in the Last 4 Weeks

Henrico County, VA (n = 3,576); May 3, 2022 - May 30, 2022



## Cumulative COVID-19 Case Distribution by Age

Henrico County, VA (N = 69,928); January 4, 2020 - May 30, 2022



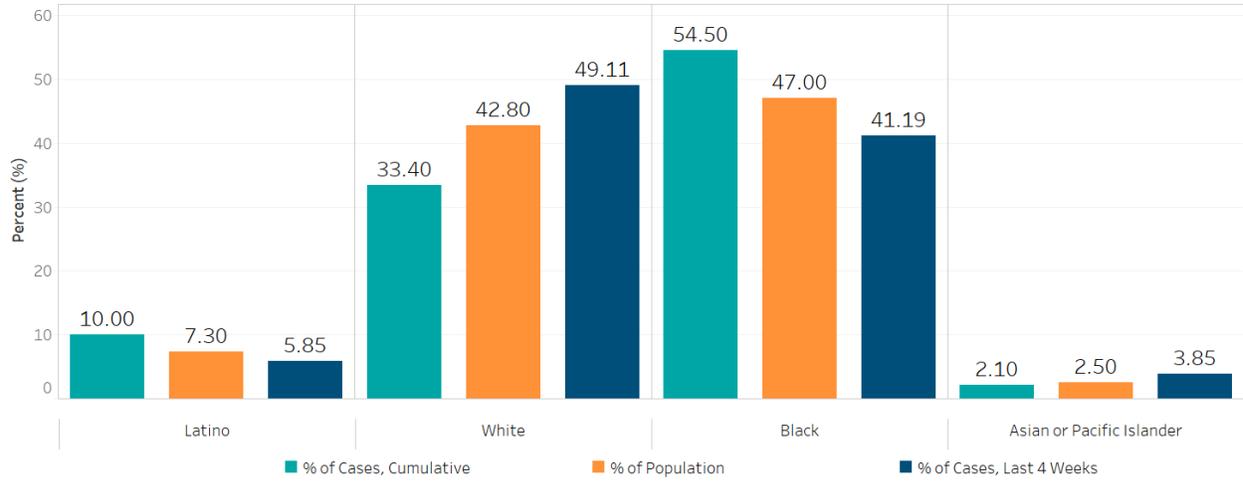
- In Henrico, individuals aged 80+ have the highest case rates in the last four weeks, followed by those aged 40-49, 30-39, and 10-19. Despite a relatively low case rate over the last four weeks, individuals aged 20-29 have the highest case rate cumulatively.

## 2.3 Cases by Race/Ethnicity by County

Population totals are based on 2019 data from the National Center for Health Statistics (NCHS).

### COVID-19 Case Distribution by Race/Ethnicity

Richmond City, VA; Cumulatively as of May 30, 2022 and in the Last 4 weeks (May 3, 2022 - May 30, 2022)



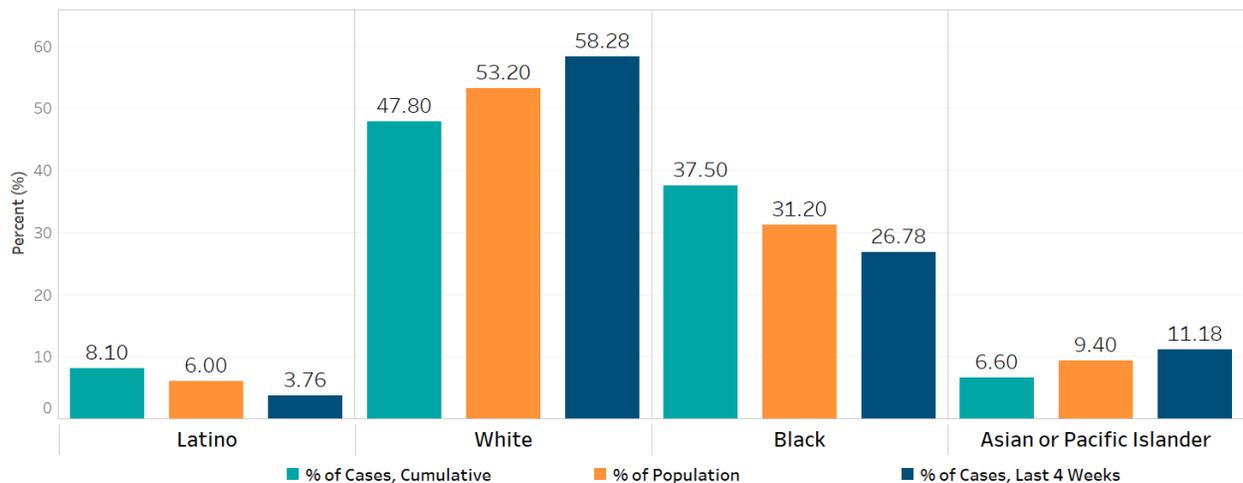
\* NCHS population estimates are not available for Two or More Races or for Other Race (1,627 total cases)

\* Missing or unknown ethnicities were assumed to be non-Hispanic.

- In the last 4 weeks in Richmond, the proportions of cases for Black and Latino individuals (41.2% and 5.9%, respectively) are below their population percentages (47% and 7.3%), a reversal from their disproportionately high cumulative percentages (54.5% and 10%). Meanwhile, the proportions of cases over the last four weeks among Asian or Pacific Islander & White individuals (3.9% and 49.1%, respectively) are notably above their respective population percentages (2.5% and 42.8%).

### COVID-19 Case Distribution by Race/Ethnicity

Henrico County, VA; Cumulatively as of May 30, 2022 and in the Last 4 weeks (May 3, 2022 - May 30, 2022)



\* NCHS population estimates are not available for Two or More Races or for Other Race (3,414 total cases)

\* Missing or unknown ethnicities were assumed to be non-Hispanic.

- In Henrico in the last four weeks, the proportion of cases for Black individuals (26.8%) is lower than their proportion of the population (31.2%). The proportion of cases seen amongst White and Asian or Pacific Islander individuals (58.3% and 11.2%, respectively) are high relative to their proportions of the population (53.2% and 9.4%). While the cumulative proportion of cases for Latino individuals (8.1%) is disproportionately high relative to their population (6%), the proportion of cases in the last four weeks (3.8%) is lower than their population proportion.

### 3.0 Hospitalizations & Fatalities

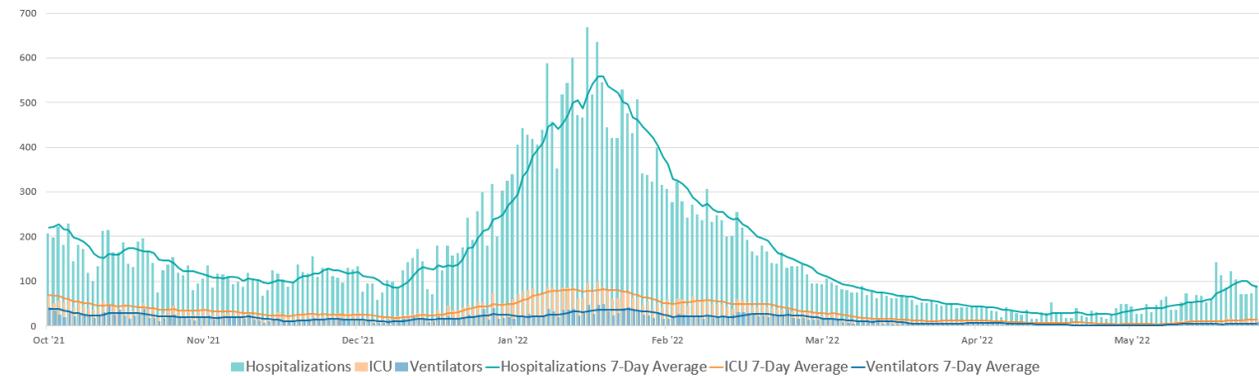
#### 3.1 Summary of Hospitalizations & Fatalities

Among hospitals in the Richmond Catchment Area, **Hospitalizations** appear to have **increased** in the past few weeks. **ICU hospitalizations** and **ventilator utilizations** appear to be **increasing** slowly. It is now clear that **Fatalities** peaked in January with totals not seen since January 2021 in both Richmond and Henrico, although they appear to have decreased since then. **Data related to deaths can be subject to sizable amounts of lag.**

#### 3.2 COVID-19 Hospitalization, ICU, & Ventilator Utilization (VHASS)

**Total Daily COVID-19 Hospitalizations, ICU Hospitalizations, and Ventilator Utilizations**

Richmond Catchment Area, October 1st, 2021 - May 31st, 2022



\*Sum of Daily Counts displayed above- Hospitalizations: 38277 of 127650 (All Time), ICU Hospitalizations: 7553 of 29687, Ventilator Util

- From February through early April Hospitalizations decreased to levels last seen in summer 2021, while ICU Hospitalizations and Ventilator Utilizations dropped to fairly minimal levels.
- Hospitalizations increased in May, 2022. ICU Hospitalizations and Ventilator Utilizations have fluctuated at low levels through May and appear to be increasing now.

## 4.0 VACCINATION

### 4.1 Vaccine Summary

In Richmond City and Henrico County Health Districts, anyone aged 5 or older is eligible to receive a vaccine.

As of May 30, 73.3% of the region’s population has received at least one dose of the vaccine. 68.4% of the region’s population has been fully vaccinated. A growing number of 36.8% had received a booster in the region. Approximately 71.7% of the combined Richmond City and Henrico County population has received at least one dose and 66.8% of the two districts’ combined population has been fully vaccinated. 36.7% of the two districts’ population has also received a booster.

In both Richmond City and Henrico County, older age groups have consistently been vaccinated at a higher rate than younger age groups. In Richmond City, the 70% vaccination benchmark has been met by individuals aged 65 and over. In Henrico County that same benchmark has been met by all age groups over 12 years old.

This section includes an estimated breakdown of vaccination uptake by race, sex, and age subgroups.

### 4.2 Percentage of Population Vaccinated by Age Group as of May 30, 2022

County	Age Group	POPULATION	PEOPLE WITH AT LEAST ONE DOSE	PEOPLE FULLY VACCINATED	PEOPLE WITH BOOSTER
Richmond	5-11	15,198	5,248 (34.5%)	4,283 (28.2%)	155 (1%)
	12-17	11,150	7,275 (65.2%)	6,392 (57.3%)	1,797 (16.1%)
	18+	190,750	132,877 (69.7%)	123,470 (64.7%)	73,262 (38.4%)
	65+	31,809	26,141 (82.2%)	24,746 (77.8%)	19,592 (61.6%)
Henrico	5-11	28,406	13,946 (49.1%)	11,841 (41.7%)	284 (1%)
	12-17	25,954	20,502 (79%)	18,840 (72.6%)	6,187 (23.8%)
	18+	256,660	216,986 (84.5%)	205,779 (80.2%)	124,148 (48.4%)
	65+	52,720	50,163 (95.1%)	48,194 (91.4%)	39,239 (74.4%)

Population totals are based on 2019 data from the National Center for Health Statistics (NCHS). These totals are used in order to calculate percent in each column. Please note - this is a change from previous reports which used Census data to estimate population by age group.

### 4.3 Vaccinations by Locality as of May 30, 2022

Source: [vdh.virginia.gov](http://vdh.virginia.gov)

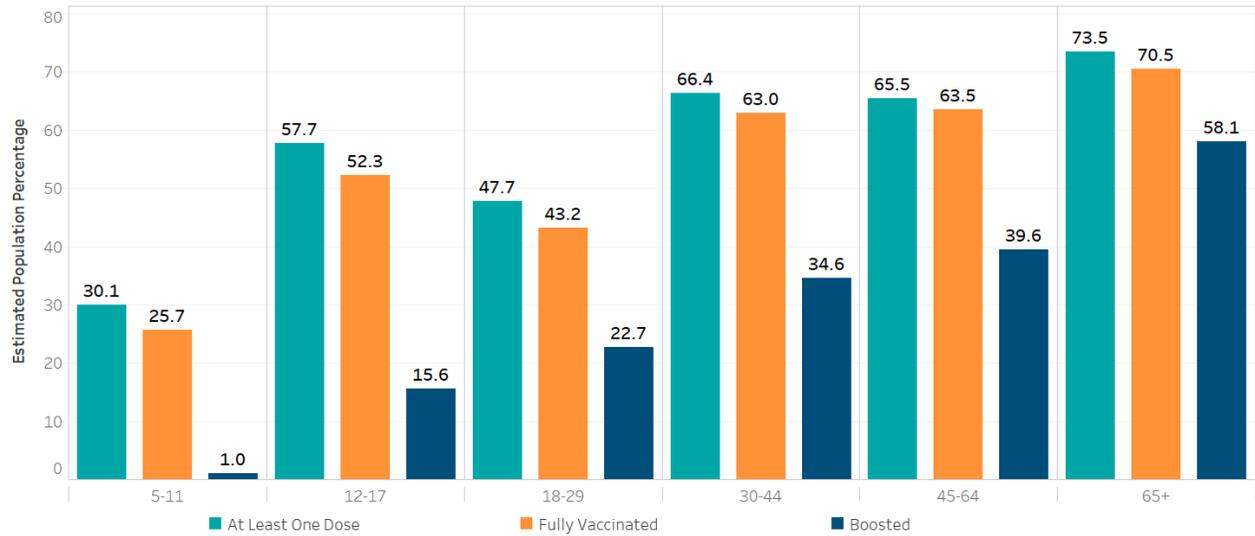
HEALTH DISTRICT	LOCALITY	TOTAL POPULATION	PEOPLE WITH AT LEAST ONE DOSE	PEOPLE FULLY VACCINATED	PEOPLE WITH BOOSTERS
Chesterfield	Chesterfield	352,802	267,777	245,934	128,838
	Colonial Heights	17,370	11,278	10,151	4,851
	Powhatan	29,652	18,406	17,141	9,199
Chickahominy	Charles City	6,963	7,220	7,280	2,565
	Goochland	23,753	19,133	18,547	11,182
	Hanover	107,766	80,954	78,643	42,183
	New Kent	23,091	15,528	15,111	7,932
Henrico	Henrico	330,818	254,875	239,036	130,619
Richmond	Richmond City	230,436	147,399	136,039	75,214
Total		<b>1,122,651</b>	<b>822,570</b>	<b>767,882</b>	<b>412,583</b>

Population totals are based on 2019 data from the National Center for Health Statistics (NCHS). Please note - this is a change from previous reports which used Census data to estimate population by age group.

## 4.4 Vaccine by County & Age

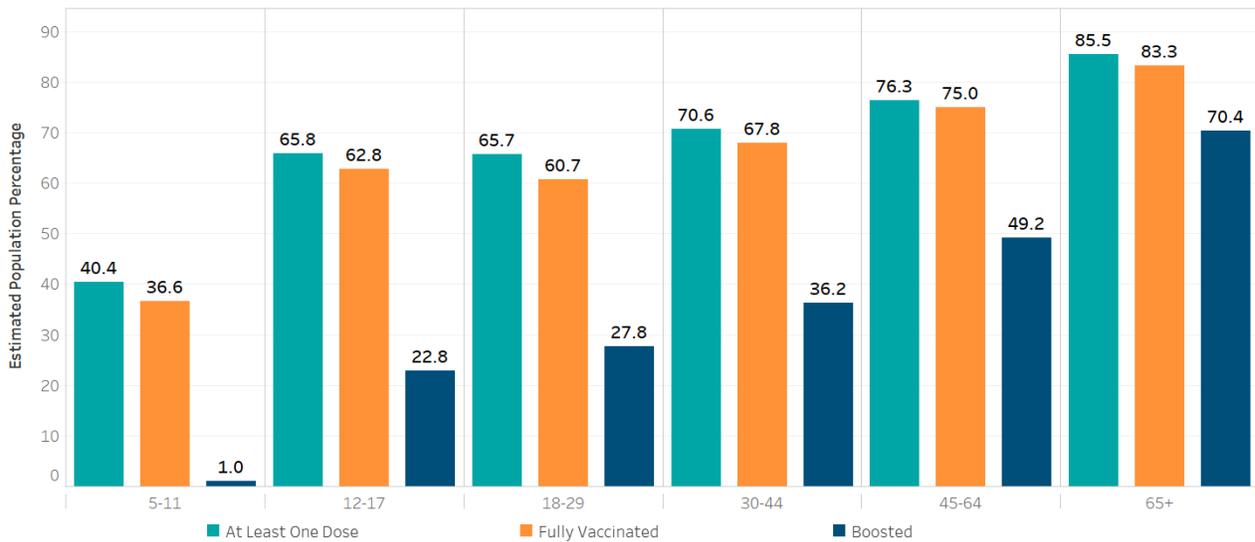
### Vaccination Uptake Estimations by Vaccination Status & Age Group

Richmond City, VA; May 26, 2022



### Vaccination Uptake Estimations by Vaccination Status & Age Group

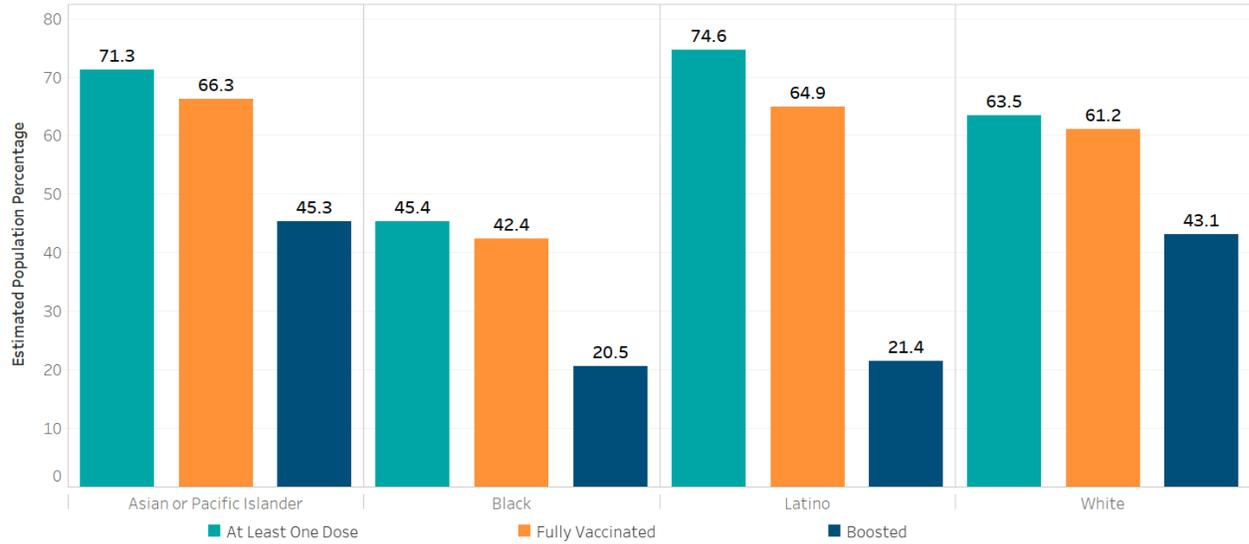
Henrico County, VA; May 26, 2022



## 4.5 Vaccine by County & Race

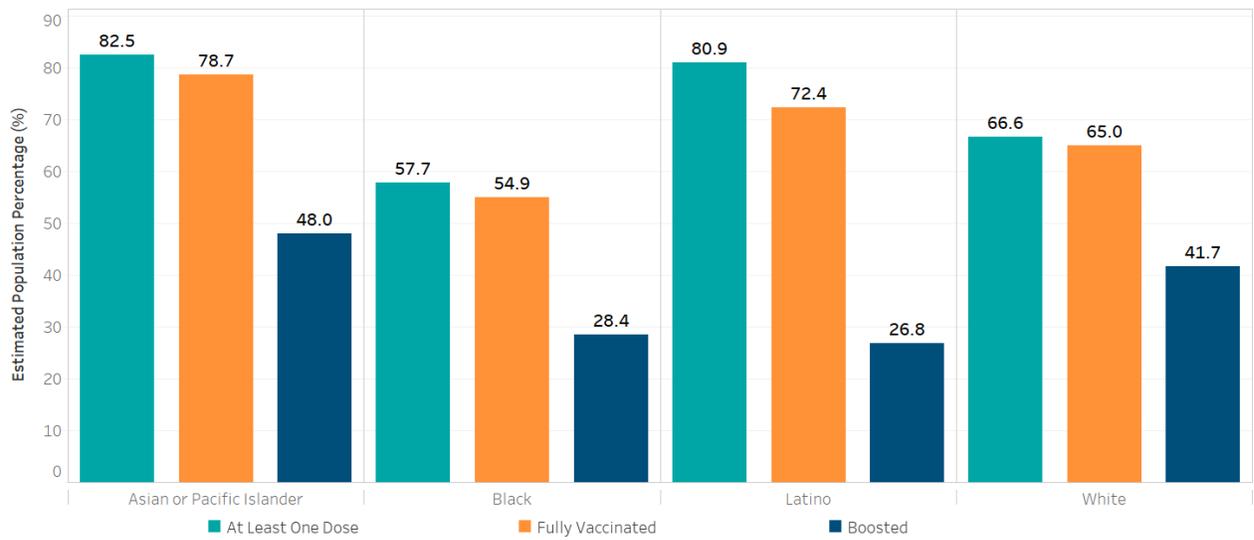
### Vaccination Uptake Estimations by Vaccination Status & Racial/Ethnic Group

Richmond City, VA; May 26, 2022



### Vaccination Uptake Estimations by Vaccination Status & Racial/Ethnic Group

Henrico County, VA; May 26, 2022

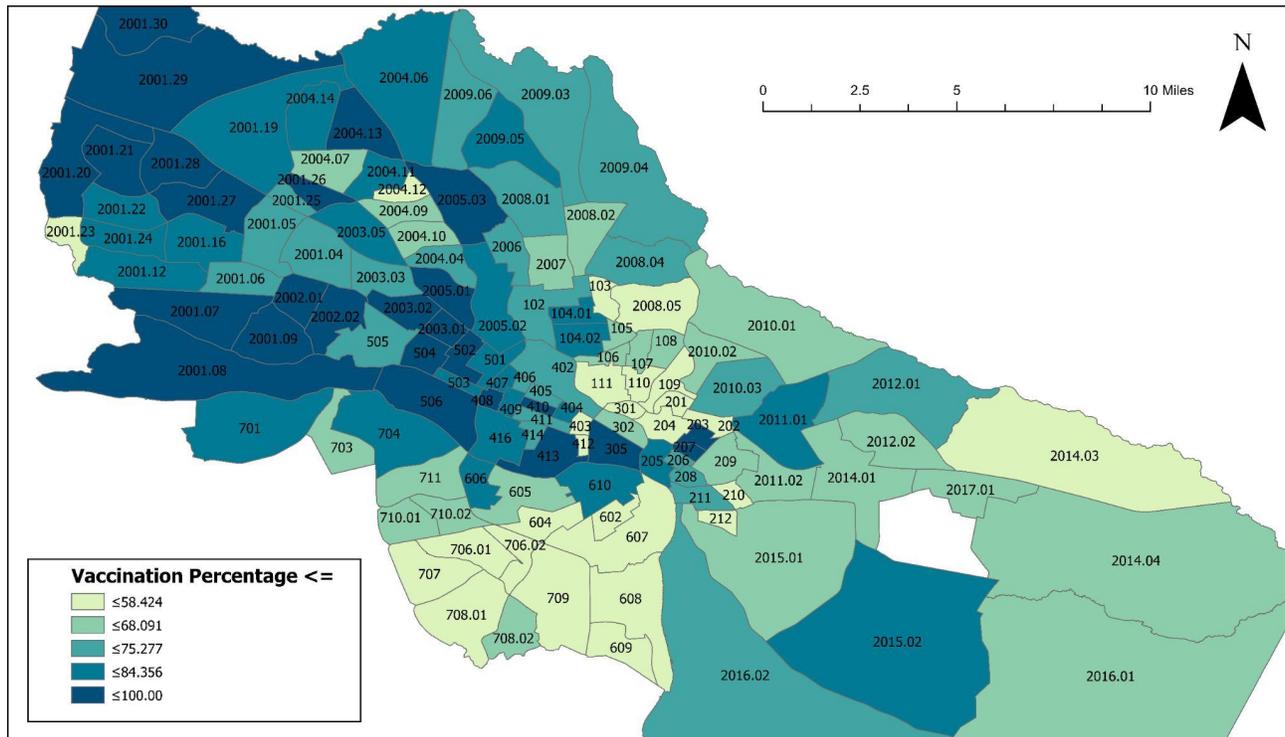


## 4.6 Vaccine Distribution Maps

Below are maps that compare vaccination uptake percentage and COVID-19 burden by census tract. The data collected is consistent with statewide and national data trends; lower income communities of color tend to experience more severe outcomes of COVID-19, yet are disproportionately undervaccinated. RHHD monitors this data as part of its equity-driven approach; this data is used to assist program managers in strategically standing up vaccination opportunities, outreach, and education efforts in areas that are in highest need.

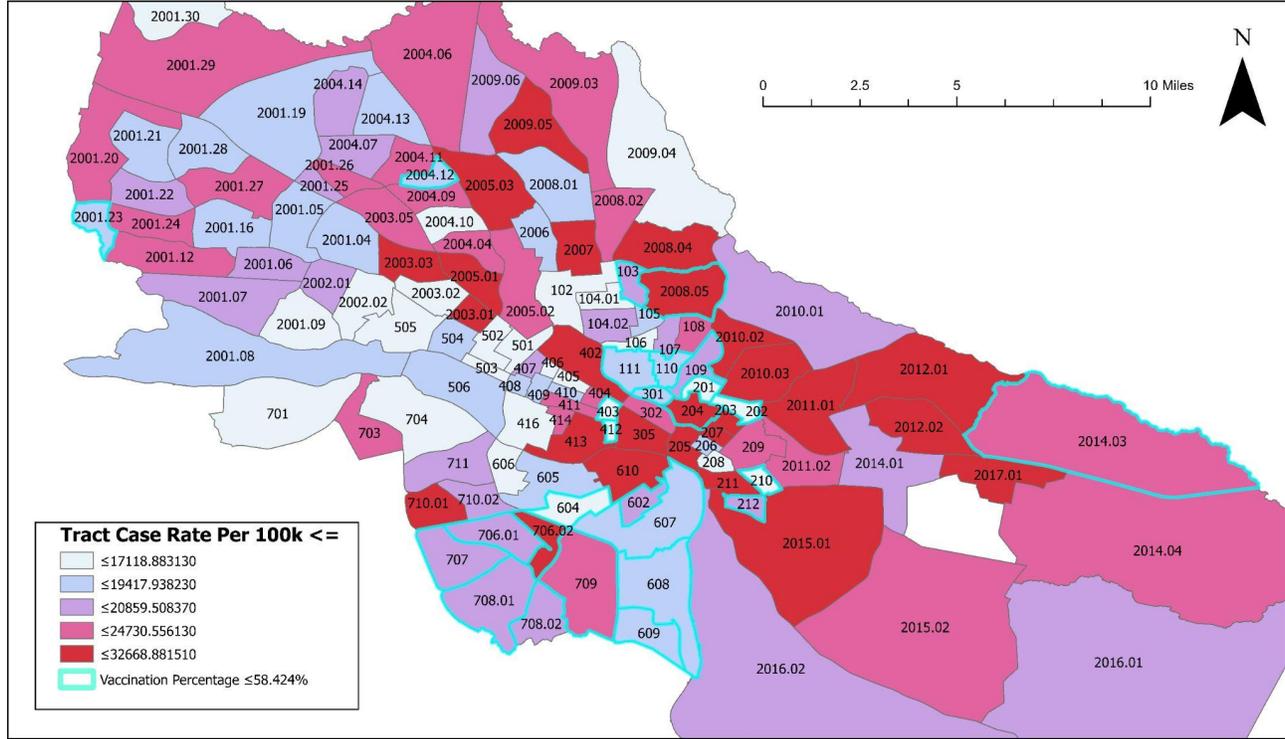
These percentages are estimations, and are solely intended for use in the planning and facilitation of outreach events.

Vaccination Percentage by Census Tract  
Richmond City, VA & Henrico County, VA (May 31st, 2022)

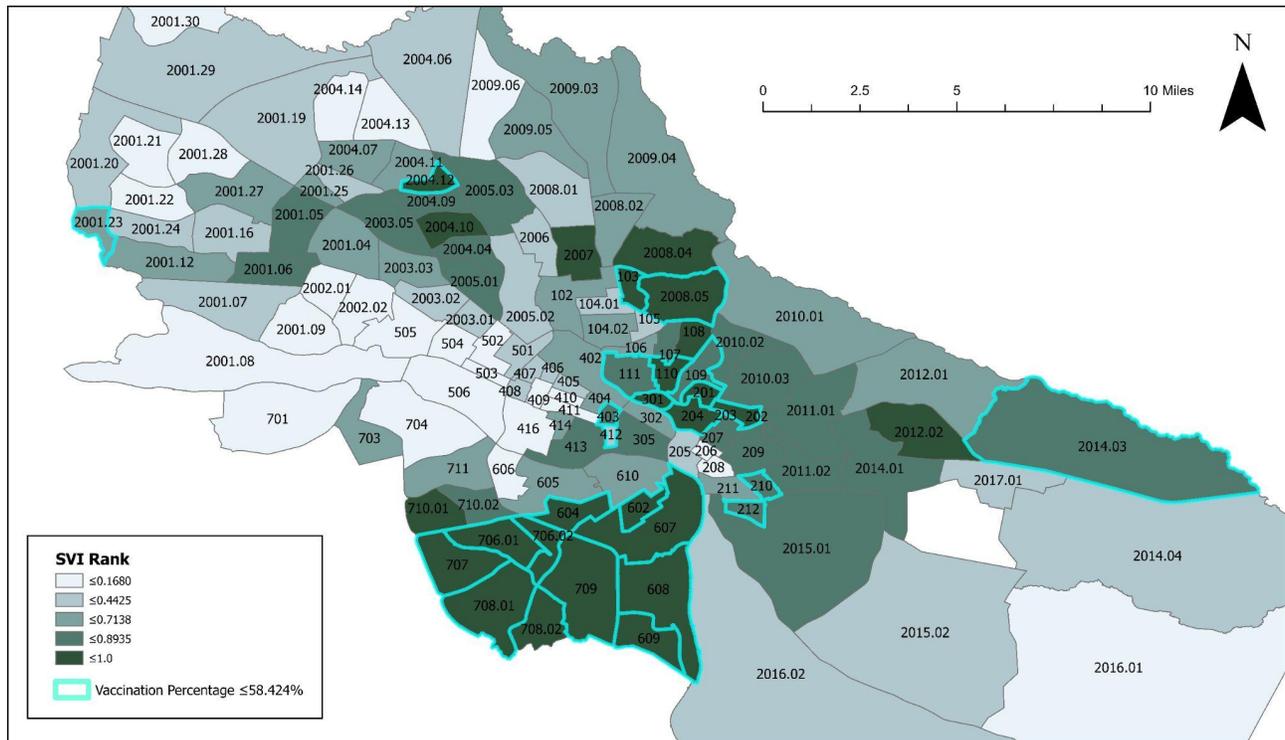


\*Percentage of population receiving at least one dose

## COVID-19 Case Rate per 100k & Low Vaccination Percentage Tracts Richmond City, VA & Henrico County, VA (May 31st, 2022)



## Social Vulnerability & Low Vaccination by Census Tract Richmond City, VA & Henrico County, VA (May 31st, 2022)



- **Social vulnerability** is based on the CDC's [Social Vulnerability Index](#), last updated in 2018.
- **COVID-19 vaccination percentages** reflect the percentage of the **Total Population** within each tract that has been vaccinated. Data are sourced from the Virginia Immunization Information System (VIIS).
- **COVID-19 case rates** reflect **Cumulative** cases per 100,000 census tract population and are sourced from the Virginia Electronic Disease Surveillance System (VEDSS).
- **Population estimates** are from the US Census 2019 ACS Community Survey 5-year estimates.
- SVI, vaccination percentage, and case rates are visualized on these maps using the [quantiles classification](#) method, dividing the range into 5 groups, each containing the same number of observations (census tracts).

## 5.0 Glossary

### **7-day average number of new daily cases**

Recurrent average of the number of cases for each consecutive 7-day period regardless of data availability.

### **7-day total case rate per 100,000**

Calculated by adding the number of new cases in the county (or other administrative level) in the last 7 days divided by the population in the county (or other administrative level) and multiplying by 100,000. **7-day total case rate per 100,000** is considered to have a transmission level of Low (0-9.99), Moderate (10.00-49.99), Substantial (50.00-99.99), or High (greater than or equal to 100.00).

### **Antigen**

Antigens are molecules capable of stimulating an immune response. Antigen tests are commonly used in the diagnosis of respiratory pathogens such as the COVID virus.

### **Assisted living facilities**

A housing facility designed for people with disabilities or adults who cannot/decide not to live independently

### **At least one dose**

This metric includes everyone who has received only one dose [including those who received one dose of the single-shot Johnson and Johnson's Janssen COVID-19 vaccine] and those who received more than one dose.

### **Case rate**

the number of cases per 100,000 people in the population. Calculation:  $((\text{Confirmed Cases} + \text{Probable Cases}) / \text{Population Estimate}) * 100,000$

### **Community Level - Added 3/21/2022**

A measure of the impact of COVID-19 illness on health and healthcare systems, created by the CDC. The CDC looks at the combination of three metrics — new COVID-19 admissions per 100,000 population in the past 7 days, the percent of staffed inpatient beds occupied by COVID-19 patients, and total new COVID-19 cases per 100,000 population in the past 7 days — to determine the COVID-19 community level. New COVID-19 admissions and the percent of staffed inpatient beds occupied represent the current potential for strain on the health system. Data on new cases acts as an early warning indicator of potential increases in health system strain in the event of a COVID-19 surge.

Using these data, the COVID-19 community level is classified as low, medium, or high.

**Community Transmission**

Refers to when an individual is infected with the COVID-19 in an area, including some who are not sure how or where they became infected. Community Transmission is low when less than 10 new cases per 100,000 persons in the past 7 days OR <5% of positive NAATs tests during the past 7 days. Nucleic Acid Amplification Test, or NAAT, is a type of viral diagnostic test for SARS-CoV-2, the virus that causes COVID-19

**Confirmed Case**

A confirmed case is an individual who had a confirmatory viral test performed by way of a throat swab, nose swab or saliva test and that specimen tested positive for SARS-CoV-2, which is the virus that causes COVID-19.

**Congregate settings**

A setting where a number of people reside, meet or gather in close proximity for a period of time. Examples include homeless shelters, prisons, detention centers, schools and workplaces.

**Cumulative**

Consisting of accumulated parts created by successive additions - In the context of this report “cumulative” refers to the total number of things (cases, vaccinations, deaths, ect) that have occurred during the time frame referenced.

**Fully Vaccinated**

For the purposes of this report an individual is considered fully vaccinated after receiving two doses of either the Pfizer-BioNTech COVID-19 vaccine (COMIRNATY) or the Moderna COVID-19 vaccine, or after receiving one dose of the Janssen (Johnson & Johnson) COVID-19 vaccine.

**High density workplaces**

Workplace settings in which individuals are there for long time periods (e.g., for 8-12 hours per shift), and have prolonged close contact (within 6 feet for 15 minutes or more).

**Hospitalizations**

Number of confirmed & pending COVID-19 patients receiving inpatient hospital care or utilizing an inpatient hospital bed (e.g., observation status) AND being treated for COVID-19 related complications. This metric is not cumulative; only report current counts at the time the user updates VHASS. This metric excludes confirmed inpatients in the hospital for primary reasons other than COVID complications.

**ICU hospitalizations**

Number of confirmed & pending COVID-19 patients receiving inpatient hospital care and are utilizing an Intensive Care Unit (Adult CC) bed for treatment related to COVID-19 complications. This metric is not cumulative; only report current counts at the time the user updates VHASS. This metric excludes confirmed inpatients in the hospital for primary reasons other than COVID-19 complications.

**Independent living facilities**

Housing arrangements and communities for older adults that range from apartment-style communities to housing co-ops. It is designed for seniors who can still live independently

**Locality**

A community in which people live. The Commonwealth of Virginia is divided into 95 counties, along with 38 independent cities that are considered county-equivalents for census purposes. For the purpose of this report, the term “Locality” is used to refer to one of these 133 independent communities. The boundaries of the Richmond City Health Department and Henrico Health Department closely align with the boundaries of the Richmond City and Henrico County localities, but that is not the case with many other health districts across the state.

**Long-term care facilities**

Housing facilities for people with disabilities or for adults who cannot or who choose not to live independently.

**NCHS**

The National Center for Health Statistics who releases bridged-race population estimates of the resident population of the United States for use in calculating the Nation’s official vital statistics

**PCR**

PCR stands for polymerase chain reaction. The test isolates genetic material from a patient sample and duplicates it many times, allowing for the presence of COVID-19 genetic material to be detected if present. The PCR test is the strongest and most reliable COVID-19 test currently available.

**Percent positivity**

For each event is calculated by dividing the number of tests yielding a ‘Detected’ result by the summed number of ‘Detected’ and ‘Not Detected’ results, and then multiplying this number by 100 to get a percent.

**Population Estimate**

Unless otherwise stated, population totals are based on 2019 data from the National Center for Health Statistics (NCHS). Please note- this is a change from some previous reports which used aggregated Census data regarding population by age group.

**Probable Case**

A probable case is an individual who has not had a confirmatory test performed but has: a positive antigen test, or clinical criteria of infection and is at high risk for COVID-19 infection (e.g. healthcare worker)

**Provider Category**

Health Department, Pharmacy, Health System, Community Provider, Safety Net, Other Locality

**Race/Ethnicity**

Prioritizes Hispanic Ethnicity over Patient stated Race, consolidates into groups: Hispanic, Asian & Pacific Islanders, White, Black, Native American & Unreported

**Resident**

Person(s) who self indicate, through census enumeration, medical documentation, or registration information that their primary residence is within the locality or health district referenced

**Richmond catchment area**

Hospital jurisdictions that serve the population of the greater Richmond metropolitan area: these include the hospital jurisdictions of Hanover, Henrico, Chesterfield, and Richmond City.

**Sara Alert**

Virginia based voluntary contact monitoring platform; individuals can update local health departments on their health status during the period of time they are participating in public health monitoring. The Sara Alert system is secure and always contacts users from the same phone number or email: 844-957-2721 or [notifications@saraalert.org](mailto:notifications@saraalert.org).

**Social Vulnerability**

The potential negative effects on communities caused by external stresses on human health. Such stresses include natural or human-caused disasters, or disease outbreaks. Reducing social vulnerability can decrease both human suffering and economic loss. More information on the CDC's Social Vulnerability Index can be found at <https://svi.cdc.gov/>

**Spread**

COVID-19 spreads when an infected person breathes out droplets and very small particles that contain the virus. These droplets and particles can be breathed in by other people or land on their eyes, noses, or mouth. In some circumstances, they may contaminate surfaces they touch. People who are closer than 6 feet from the infected person are most likely to get infected.

**Suspect Case**

Meets supportive laboratory evidence, with no prior history of being a confirmed or probable case. For suspect cases, jurisdictions may opt to place them in a registry for other epidemiological analyses or investigate to determine probable or confirmed status.

**Tested Count**

Represents all individuals who received a 'Detected', 'Not Detected', or 'Inconclusive' result (Records from individuals who registered for an event but who were not tested were removed prior to this analysis).

**Testing Encounter**

Instance where COVID-19 test is administered to a person in the community via a known provider.

**Vaccination Percentage**

The number of individuals vaccinated divided by estimated population of a referenced community, locality or health district - Whether "Vaccinated" refers to "Fully vaccinated" or "At least one dose" should be clarified in the specific metric.

**VEDSS**

Virginia Electronic Disease Surveillance System (VEDSS) is the primary data system used by the Virginia Department of Health (VDH) for disease surveillance. VEDSS is used to track COVID-19 cases and laboratory reports.

**Ventilator utilizations**

The number of Ventilators currently in use to treat patients diagnosed with COVID-19 amongst hospitals within the Richmond Catchment Area.

**VHASS**

The Virginia Healthcare Alerting and Status System (VHASS) is the data system used to collect information on hospital status, resources, and critical care capabilities. VHASS helps in the distribution of critical emergency management information needed by Virginia hospitals and healthcare providers.

**VIIS**

The Virginia Immunization Information System (VIIS) is Virginia's statewide immunization registry that contains immunization data of persons of all ages.

**ZCTA**

ZIP Code Tabulation Areas (ZCTAs) are generalized areal representations of United States Postal Service (USPS) ZIP Code service areas.