# WEEKLY COVID-19 REPORT FOR EXTERNAL USE

Mon August 23, 2021 - Mon August 30, 2021

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#### **KEY TAKEAWAYS**

#### **C**ASES

Cases in both districts have begun to increase over the past month, with a **7-day** total case rate of 277.55 new cases per 100,000 population in Richmond and 242.2 new cases per 100,000 population in Henrico. Both districts have community transmission levels that are considered **High**, according to the <u>CDC COVID Data Tracker</u>.

Richmond City & Henrico County			
Demographic Highest Proportion			
Age	20-29 Year Olds		
Sex	Female		
Race	Black		

#### HOSPITALIZATIONS & FATALITIES

Hospitalizations based on date of admission among Richmond residents are low but increasing with **3** hospitalizations in the last week after a recent spike of **12** earlier in the month. There have been **4 fatalities** in Richmond since the start of **August**.

In Henrico, **hospitalizations** are also low but increasing with **3 hospitalizations** in the last week. There have been **7 fatalities** in Henrico since the start of **August**. *Hospitalizations & Deaths by subgroup (sex, age, and race) are reported on a monthly basis. Data may be impacted by a lag in reporting.* 

Richmond Catchment Area: Hospital Status Board Trends					
Time Period	Hospitalizations	ICU Hospitalizations	Ventilator Utilizations		
<b>2021</b> January 1st, 2021 $ ightarrow$	m	my	man		
Last 4 Weeks July 19, 2021→					

- \*10 out of 11 hospitals in the Richmond Catchment Area are operating at a 'Normal' clinical status. 1 is operating at "full" status
- Per VHASS catchment area hospitalizations have increased from **199 to 289 (+45%)** since August 16th

#### VACCINATIONS

Richmond and Henrico Health Districts are in Phase 2 of vaccination; anyone 12 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 & Bional CompleteLocation≥ 1 DoseCompleteRichmond City & Henrico County58.0%52.0%Region58.9%52.9%

Vaccination Demographic Trends				
Demographic Richmond City Henrico Count				
Age Groups ≥ 70% Vaccinated	65+	50+		
Sex	Female			
Race	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 AND PERCENT POSITIVITY BY MODALITY IN RICHMOND AND HENRICO

Total tests by testing modality and the associated 7-day average in percent positivity are summarized in the table below. Data are from the <u>VDH public dashboard</u> on August 30, 2021.

	RICHMOND CITY		HENRICO COUNTY	
	Tests	Positivity	Tests	Positivity
PCR*	286,441	11.3%	439,531531	11.4%
Antigen	67,057	8.5%	126,323	10.9%
Total (PCR, antigen, and antibody)	358,335	10.4%	576,056	11.5%

#### 1.2 Confirmed cases, hospitalizations, fatalities, and probable cases by county

CASE STATUS	RICHMOND CITY	HENRICO COUNTY	VIRGINIA
New cases this week (August 30)	960	1257	21789
All cases	19796	29357	762948
Confirmed cases	15929	21182	581537
Hospitalizations	828	1118	31761
Deaths	245	579	9974
Probable cases	3867	8175	181411
Hospitalizations	21	48	1796
Deaths	39	71	1836
Case rate per 100,000	8590.7	8874.1	8938.5

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 HOSPITALIZATIONS IN THE RICHMOND CATCHMENT AREA ON AUGUST 30, 2021

The data included in this section comes from VHASS and it comes from the following hospitals: 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	289	87	
Pending Hospitalizations	20	87	
Confirmed - ICU	76	24	
Pending - ICU	*	24	
Confirmed - Ventilators	43	260	
Pending - Ventilators	0	209	

Within these 11 hospitals that comprise the Richmond catchment area, there are currently 101 total available hospital beds, 24 available adult ICU beds, and 269 available ventilators. Based on the VHASS hospital dashboard on August 30, 2021, all 10 hospitals in the Richmond Catchment area are operating at normal clinical status. CJW Johnston Willis is operating at a full clinical status.

\*A clinical status of "normal" indicates that hospital clinical resources are operating within normal conditions. A clinical status of "full" indicates that hospital clinical resources are exceeded and acceptable care cannot be provided to additional patients. Diversion or Community surge response is required.

# 2.0 COVID-19 CASES

#### \*\*\* Disclaimer \*\*\*

For previous reports, Virginia Electronic Disease Surveillance System (VEDSS) data (i.e., **case data)** has been accessed directly from the VEDSS database. Data for this report was accessed on 8/30/21 through the VDH

#### Tableau server. This should not create any discrepancies but is being monitored.

#### 2.1 SUMMARY OF CASES

#### Cases

Cases in both districts have begun to increase over the past couple of weeks, with a **7-day total case rate** of 277.55 new cases per 100,000 population in Richmond and 242.2 new cases per 100,000 population in Henrico.

In both districts, females comprise a higher proportion of cases and 20-29 year olds continue to lead case counts cumulatively. Regarding race and ethnicity, the highest incidence of cases in both districts is still among Black individuals. Additionally, in both districts, the percentage of cases among the Latino population is disproportionately high cumulatively as compared to their population percentage but closer to their population percentage more recently.

In both Richmond City and Henrico County, the level of community transmission is considered **High**, according to recent CDC guidance & the <u>CDC Covid Data Tracker</u>.

2.2 Case Reporting Trends by Date (source-vdh website)

# \*\*\* Disclaimer \*\*\*

In recent weeks, case investigators have made significant efforts to reallocate past cases to appropriate localities (e.g. a case originally listed in Richmond City might be reassigned to Henrico County, Chesterfield County, etc.). This has led to sometimes significant discrepancies between reported cases and actual new cases.

Below is an estimation of the eventual adjustments made to each county's Reported Case counts per week. Interpretation: **On the week of August 2, 2021 - August 8, 2021, there were 0-25 more cases than were reported in Richmond City, and between 0 and 25 more cases than were reported in Henrico County**. For more, see 'QA Note - Section 2.0 - Cases' at the end of this report.

Wook	Deviation of Actual New Case Counts from Reported Counts			
- week	Richmond	Henrico		
08/02 to 08/08	0-25 Higher Count than Reported	0-25 Higher Count than Reported		
08/09 to 08/15	26-50 Higher Count than Reported	0-25 Higher Count than Reported		
08/16 to 08/22	26-50 Higher Count than Reported	26-50 Lower Count than Reported		
08/23 to 08/29	26-50 Higher Count than Reported	0-25 Lower Count than Reported		

While the table reports the **weekly** total discrepancy between the actual new case count and the reported case count, the plots below display the **daily** reported case count. The corresponding 7-day moving average is a recurrent average of the reported case count for each 7-day data sequence.



- In Richmond, the number of daily new cases reported is influenced by cases being reallocated to different localities. The daily plot trends should be compared with the weekly corrections reported in the table above.
- For the week of July 12 to July 18 the amount of "noise" in the data is still high and now the actual case count for the week is 0 to 25 cases fewer than the graph presents.
- For the week of July 19 through July 25, there were between 0 and 25 more new cases than what was reported. Together with the uptick in the daily curve, this indicates an increase in cases recently.
- This increase in cases has continued over the week of July 26 through August 1, with the daily counts showing an increase in cases compared to previous weeks and the table indicating that the actual count for the week is between 0 and 25 higher than the reported counts show.
- For the week of August 2 through August 8, there has still been an upward trend with cases 0 and 25 higher than the reported counts shown.
- During the week of August 23 through August 29, there has still been an upward trend with cases 26 and 50 higher than the reported counts shown.

Number of New Cases Reported^ 101 7-Day Average Number of Daily New Cases Reported 126 7-Day Average Number of New Daily Cases Reported, Rate per 100,000 Population

38.4

Total Number of New Cases per 100,000 Population within last 14 days

# 484.4

•

Report Date Daily Cases Counts for past 90 Days Henrico Select Date Range (Affects Bar Chart) Past 90 Days



- In Henrico, the number of new cases reported per day is also fluctuating due to recent efforts to reallocate older cases to appropriate localities. The plot trends should be compared with the weekly corrections reported in the table above.
- For the week of July 12 to July 18 the amount of "noise" in the data is still present, and there were between 0 and 25 more new cases than actually reported in the graph, suggesting an increase in cases from the previous week.
- For the week of July 19 to July 25, there were between 26 and 50 new cases than actually reported while the daily counts are higher, demonstrating a notable rise in cases compared to previous weeks.
- The trend upward in cases has continued over the week of July 26 through August 1, with daily cases reported increasing from previous weeks and the table indicating that the weekly count is actually between 26 and 50 higher than the reported count.
- For the week of August 2 through August 8, there has still been an upward trend with cases 0 and 25 higher than the reported counts shown.
- During the week of August 23 through August 29, there has still been an upward trend but with cases 0 to 25 lower than reported.

#### 2.3 CASES BY SEX BY COUNTY

All percentages are based on overall case distribution, rather than the proportion of known cases for each measure, and therefore may not correspond directly with VDH percentages.





• In Richmond City, over the last four weeks, females have comprised a majority of cases (56.98%) when compared to males (42.68%).



• In Henrico, over the last four weeks, females have comprised 56.00% of known cases, whereas males have comprised 43.72% of known cases.

#### 2.4 CASES BY AGE GROUP BY COUNTY

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.







In Richmond City, individuals aged 20-29 and 0-9 have the highest case rates in the last four weeks, while individuals aged 20-29 have the highest case rate cumulatively.

 Case burdens for individuals 50 and over are notably down in the last four weeks compared to cumulatively.



COVID-19 case distribution by Age in the last 4 weeks



#### Cumulative COVID-19 cases by Age as of August 29, 2021 —Henrico County, VA (n=29342)

Age is missing for (n=160) cases

Age is missing for (n=172) cases

- In Henrico, case rates over the past four weeks indicate a majority of cases occurring in individuals aged 20-29, followed by those aged 0-9 and 30-39, whereas cumulative case rates indicate a large burden being placed on individuals aged 20-29 and those 80 and over.
- Case rates are notably down for other older age groups (60 and over), with a particularly notable drop for individuals 70 to 79.

#### 2.5 CASES AND POPULATION PROPORTIONS BY RACE AND ETHNICITY BY COUNTY

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





\* NCHS population estimates are not available for Two or More Races (235 total cases) or Other Race (394 total cases) and thus they are absent from the plots. \* Missing and Unknown Ethnicities were assumed to be of Non-Hispanic ethnicity.

In Richmond, the case burden for Black individuals over the last 4 weeks (58.4%) is disproportionately high relative to their population percentage (47%), while the case burden for White individuals is disproportionately low (26.8%) relative to their population percentage (42.8%).



#### COVID-19 Case Distribution by Race and Ethnicity in the Last 4 Weeks (July 23 – August 29, 2021) and Cumulatively through August 15, 2021 – Henrico County, VA

\* NCHS population estimates are not available for Two or More Races (375 total cases) or Other Race (849 total cases) and thus they are absent from the plots. \* Missing and Unknown Ethnicities were assumed to be of Non-Hispanic ethnicity.

In Henrico in the last four weeks, the case burden for Black individuals (47%) is relatively higher than the proportion of the population (31.2%). Meanwhile, the case burdens for White individuals (40.4%) and Asian or Pacific Islander individuals (2.8%) are relatively low compared to their proportions of the population (53.2% and 9.4%, respectively). Cases in Latino individuals have been proportionally low (4.1%) compared to their population proportion (6%) recently despite a proportionally higher case burden cumulatively.

# 3.0 HOSPITALIZATIONS & FATALITIES

#### \*\*\* Disclaimer \*\*\*

For previous reports, Virginia Electronic Disease Surveillance System (VEDSS) data (i.e., **case data**) has been accessed directly from the VEDSS database. Data for this report was accessed on 8/30/21 through the VDH Tableau server. This should not create any discrepancies but is being monitored.

#### 3.1 SUMMARY OF HOSPITALIZATIONS & FATALITIES

Hospitalizations based on **confirmed** date of admission among Richmond residents are low with 3 hospitalizations in the last week. Hospitalizations among Henrico residents are also low, with 3 hospitalizations in the last week.

Looking more broadly at health systems within the Richmond catchment area, hospitalizations, ICU hospitalizations, and ventilator utilizations are increasing, but are generally at a lower level as compared to January of this year. *Hospitalizations by subgroup (sex, age, and race) are reported on a monthly basis.* 

#### 3.2 COVID-19 HOSPITALIZATIONS, ICU HOSPITALIZATIONS, & VENTILATOR UTILIZATIONS IN THE RICHMOND CATCHMENT AREA



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

\*Counts Displayed in Above Metric - Hospitalizations: 18,684 of 81,836; ICU Hospitalizations: 4,928 of 19,988; Ventilator Utilizations: 2,636 of 10,811

According to VHASS Hospitalizations, ICU Hospitalizations, and Ventilator Utilizations in the Richmond Catchment area have seen upward trends over the course of August, with a surge across the board in the last week.

# **4.0 VACCINATION**

# 4.1 VACCINE SUMMARY

Richmond and Henrico Health Districts are in Phase 2 of vaccination. Anyone 12 or older is eligible to receive a vaccine. As of August 30, 58.9% of the region's population has received at least one dose of the vaccine and 52.9% of the region's population has been fully vaccinated. Approximately 58% of Richmond and Henrico's combined population has received at least one dose and 52% of the two districts combined population has been fully vaccinated. Cumulatively, local health departments have administered the largest percentage of vaccines to Richmond and Henrico residents, compared with other providers. However, pharmacies have delivered the majority of vaccines in the last 4 week.

The majority of vaccine recipients in both districts have been female. In both Richmond and Henrico, older age groups have consistently been vaccinated at a higher rate than younger age groups, with individuals in Richmond 65 and over, in Henrico 65 and over, and in Henrico between 50 and 64 all reaching the 70% goal for vaccinated percentage. This section includes an estimated breakdown of vaccination uptake by race, sex, and age subgroups.

#### 4.2 PERCENTAGE OF VACCINATION GOALS REACHED BY POPULATION

		POPULATION	POPULATION GOAL (70%)	PEOPLE WITH AT LEAST ONE DOSE	PEOPLE FULLY VACCINATED
	12-17	11,150	7,805	5,286 (47.4%)	4,174 (37.4%)
Richmond	18+	190,750	133,525	112,112 (58.8%)	100,106 (52.5%)
	65+	31,809	22,266	24,010 (75.5%)	22,156 (69.7%)
	12-17	25,954	18,168	16,801 (64.7%)	13,992 (53.9%)
Henrico	18+	256,660	179,662	191,447 (74.6%)	173,220 (67.5%)
	65+	52,720	36,904	46,128 (87.5%)	43,237 (82%)

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.

Nationally, the Biden administration is using the **percentage of adults (individuals 18 and over)** to track progress in vaccination. Though the percentage of the population needed to reach herd immunity is still uncertain, in line with federal guidance, we have set an overall goal of vaccinating 70% of the population. First and second doses of the Pfizer vaccine must be administered at least 21 days apart. First and second doses of the Moderna vaccine must be administered at least 28 days apart. People who received the Johnson & Johnson vaccine, which is a single dose, are included in the count of people with at least one dose *and* the count of people who are fully vaccinated.

#### 4.3 VACCINATIONS BY LOCALITY AS OF AUGUST 30, 2021 - SOURCE: VDH. VIRGINIA.GOV

HEALTH DISTRICT	LOCALITY	TOTAL POPULATION	PEOPLE WITH AT LEAST ONE DOSE	PEOPLE FULLY VACCINATED
	Chesterfield	352,802	210,837	188,422
Chesterfield	Colonial Heights	17,370	9,056	7,832
	Powhatan	29,652	15,478	13,939
Chickahominy	Charles City	6,963	4,064	3,759
	Goochland	23,753	16,149	15,062
	Hanover	107,766	67,838	62,667
	New Kent	23,091	12,472	11,429
Henrico	Henrico	330,818	208,531	187,519
Richmond	Richmond City	230,436	117,563	104,462
Total		1,122,651	661,988	595,091

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 DISTRIBUTION BY SEX BY COUNTY

Population estimates for age subgroups and for race and ethnicity subgroups have been changed for this report from the U.S. Census Bureau's American Community Survey (ACS) 2019 5-year estimates to the National Center for Health Statistics (NCHS) 2019 estimates to align with estimates used by other VDH metrics. This change also involves new race and ethnicity categories: Latino or Hispanic, Non-Hispanic White, Black or African-American, Asian or Pacific Islander, and Native American. Racial groups such as Two or more Races and Other Race have been excluded from the following metrics as they do not have corresponding NCHS estimates, but the counts for these groups can be seen in the footnotes for those plots.



In both Richmond and Henrico, a majority of vaccinated individuals have been female.

# 4.5 VACCINE DISTRIBUTION BY AGE GROUP OVER TIME

The following charts track vaccination rates by age group over time since vaccinations first began in mid-December.

- The time series plots below demonstrate that individuals 65 and over in Richmond, 45 to 64 in Henrico, and 65 and over in Henrico have all reached the 70% vaccinated threshold.
- Individuals 30 to 49 in Henrico have just reached the 70% threshold.
- Generally speaking, older age groups within a locality have achieved higher vaccination rates
- Henrico age groups have achieved higher vaccination rates than their corresponding Richmond age groups.
- After later access to vaccination, individuals 12 to 17 have seen a notable increase in vaccination rates while individuals 18 to 29 have slowed in their rate of new vaccinations, leading to the younger age group recently surpassing the older one in both Richmond and in Henrico.
- All data is subject to lags in reporting, particularly in recent weeks.

Vaccinated Percentage for Eligible Individuals by Age, Based on Reported Data in Richmond (N = 117,398)



20

0

12/14 12/28 1/11

1/25

2/8

2/22

3/8

3/22

4/5

5/3

4/19

5/17

5/31 6/14

6/28

7/12 7/26

8/9

8/23

#### 4.6 VACCINE DISTRIBUTION BY RACE/ETHNICITY OVER TIME

The following charts track vaccination rates by race and ethnicity over time since vaccinations first began in mid-December.

- The time series plots below demonstrate that until recently, White individuals and Asian or Pacific Islander individuals generally had higher vaccination rates in both Richmond and Henrico
- White individuals maintained the highest vaccination rates through early April in Richmond and late April in Henrico before Asian or Pacific Islander individuals surpassed them for the highest rates.
- In early months, vaccination rates of both Latino and Black individuals were lower, with Black individuals comprising the lowest vaccine uptake as of today.
- Latino individuals saw an acceleration in vaccination rates beginning in early March after a slow start and have since surpassed all other subgroups in Richmond and all but Asian or Pacific Islander individuals in Henrico for the highest rates.
- In Richmond, no race and ethnicity group has reached the 70% vaccination goal, though Latino individuals appear poised to surpass this goal soon, based on current trends.
- In Henrico, Asian or Pacific Islander individuals and Latino individuals have already surpassed the 70% vaccination goal, with White individuals not far from this threshold.
- Vaccination rates are notably lower in both Richmond and Henrico for Black individuals, well short of the 70% goal.

All data is subject to lags in reporting, particularly in recent weeks.



#### Vaccinated Percentage for Eligible Individuals by Race/Ethnicity, Based on Reported Data in Richmond (N = 117,430)

Vaccination rates by subgroup are underestimates due to individuals not disclosing race/ethnicity (6993 vaccinations) American Indian individuals (582 vaccinations) excluded due to unreliable vaccination rate calculations.



Vaccination rates by subgroup are underestimates due to individuals not disclosing race/ethnicity (15371 vaccinations). American Indian individuals (1409 vaccinations) excluded due to unreliable vaccination rate calculations.

#### 4.7 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.



*Current data suggests that vaccination rates still vary significantly at the census tract level. With the highest uptake percentage (87.67%) seen in Census Tract 2001.29, and the lowest uptake percentage (17.70%) seen in Census Tract 403.* 

# COVID-19 Case Rate & Low Vaccination Uptake by Census Tract Richmond City, VA & Henrico County, VA (August 30, 2021)



# Social Vulnerability and Low Vaccination Uptake by Census Tract Richmond City, VA & Henrico County, VA (August 30, 2021)



- **Social vulnerability** is based on the CDC's <u>Social Vulnerability Index</u>, 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 <u>quantiles classification</u> method, dividing the range into 5 groups, each containing the same number of observations (census tracts).

#### QA NOTE - SECTION 2.0 - CASES:

In recent weeks, case investigators have made significant efforts to reallocate past cases to appropriate localities (e.g. a case originally listed in Richmond City might be reassigned to Henrico County, Chesterfield County, etc.). This has led to sometimes significant discrepancies between reported cases and actual new cases.

The report date and its count corresponds to the date the case count was reported publicly (or reallocated publicly). The report date does not have any equivalent variable in VEDSS and cannot be directly linked to case-specific dates (e.g. event dates or lab report dates).

Case counts by report date are estimated by subtracting the cumulative cases on the previous day from that of the current day. If the number of cases reallocated to another locality on a day is higher than the cases added for that day (either as new cases or via reallocation), a **negative** count will be displayed. Meanwhile, if the number of cases reallocated to a specific locality is a high number on a given day, reported cases counts can be noticeably **inflated** for that day beyond the actual case counts. The table in section 2.2 clarifies the weekly total deviation of actual new case counts from the reported counts.