

# COVID-19: Northern Virginia & Virginia

## February 7, 2023

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# COVID-19 Data, Charts Northern Virginia & Virginia

February 7, 2023

## Context: Data Limitations

- COVID-19 data summarized in the table and charts below comes from the public use database maintained by the Virginia Department of Health. The table (Slide 3) combines Falls Church and Fairfax City data with that of Fairfax County and data for Manassas and Manassas Park with that of Prince William County.
- Case counts are of those who have tested positive for the coronavirus. Testing levels and protocols, and the data generated, are not sufficient to determine actual levels of exposure and infection or to calculate reliably the incidence or prevalence of the disease locally or statewide. The undercount and associated uncertainty necessarily limits the value of the ratios and rates we have derived, but combined with the data and charts distributed over the last 33 months they give a useful view of Virginia and Northern Virginia trends, as well as of regional differences in infection levels, hospitalizations and mortality.
- Hospitalization counts are more reliable, but that data too has limitations. For example the source of admission for COVID-19 hospital cases is not available. One cannot determine reliably the number of cases referred to hospitals from nursing homes, assisted living facilities or other congregate living settings. The published data does not permit linkage between sites where infection and diagnosis and treatment occur.
- Intrastate variation in COVID-19 exposure and documented infection, hospitalization and mortality have changed dramatically over the last three years. During the early months of the epidemic they were much higher in Northern Virginia than elsewhere in the state. That has changed steadily since mid 2020. The early difference between Northern Virginia (PD 8) and the rest of state decreased as the epidemic spread more widely. Rather than more than one-half of Virginia's documented cases, hospitalizations and deaths reported during the early months of the epidemic, Northern Virginia (PD 8) now has notably lower documented COVID-19 case, hospitalization and death rates than elsewhere in Virginia. The crude hospitalization rate (COVID-19 hospitalizations per 100,000 population) now is about 70% of the average rate reported for the rest of Virginia. The reported COVID-19 crude death rate (deaths per 100,000 population) is now less than half (about 46%) the average reported rate for the rest of Virginia.
- The information presented below should be considered descriptive. The data, and the derived ratios and rates presented are illustrative, not definitive. They are informative nevertheless.
- Though lower than desirable, vaccination levels (including boosters) are higher in Northern Virginia than elsewhere in the state.
- COVID-19 data, and related information, for Virginia residents and medical services and facilities statewide is available at: <https://www.vdh.virginia.gov/coronavirus/>
- Let us know if you have questions, find errors, or would like to discuss any of the data presented here.

**COVID-19, Northern Virginia, Virginia  
Cases, Hospitalizations, Deaths (Cumulative as of February 7, 2023)**

Jurisdiction	VDH Health District	Population <sup>1</sup>	<i>Counts</i>			<i>COVID-19 Ratios</i>			<i>Population Based Rates</i>		
			Documented Cases <sup>2</sup>	Hospitalizations	Deaths	Ratio: Hosp/Cases	Ratio: Deaths/Cases	Ratio: Deaths/Hosp	Cases per 100,000 Population	Hospitalizations per 100,000 Population	Deaths per 100,000 Population
Alexandria	Alexandria	159,142	45,269	830	232	1.8%	0.5%	28.0%	28,446	522	146
Arlington County	Arlington	242,152	66,237	1,342	368	2.0%	0.6%	27.4%	27,353	554	152
Fairfax County <sup>3</sup>	Fairfax	1,181,802	265,428	5,307	1,775	2.0%	0.7%	33.4%	22,460	449	150
Loudoun County	Loudoun	413,546	96,917	1,971	443	2.0%	0.5%	22.5%	23,436	477	107
Prince William County <sup>4</sup>	Prince William	523,891	143,602	4,076	942	2.8%	0.7%	23.1%	27,411	778	180
<b>Northern Virginia (PD 8) Total</b>		<b>2,520,533</b>	<b>617,453</b>	<b>13,526</b>	<b>3,760</b>	<b>2.2%</b>	<b>0.6%</b>	<b>27.8%</b>	<b>24,497</b>	<b>537</b>	<b>149</b>
<b>Virginia Total</b>		<b>8,535,519</b>	<b>2,269,006</b>	<b>59,860</b>	<b>23,462</b>	<b>2.6%</b>	<b>1.0%</b>	<b>39.2%</b>	<b>26,583</b>	<b>701</b>	<b>275</b>
<b>Northern Virginia: Virginia Ratio (NV/VA)</b>		<b>29.5%</b>	<b>27.2%</b>	<b>22.6%</b>	<b>16.0%</b>	<b>84.9%</b>	<b>58.8%</b>	<b>69.2%</b>	<b>92.1%</b>	<b>78.2%</b>	<b>54.1%</b>
<b>Virginia Excluding Northern Virginia</b>		<b>6,014,986</b>	<b>1,651,553</b>	<b>46,334</b>	<b>19,702</b>	<b>2.8%</b>	<b>1.2%</b>	<b>42.5%</b>	<b>27,457</b>	<b>770</b>	<b>328</b>

Source: Data, VDH COVID-19 Public Use Data Set-Cases, February 7, 2023, at <https://www.vdh.virginia.gov/coronavirus/>; Tabulations & Calculations, HSANV

<sup>1</sup>Population Estimates, Weldon Cooper Center for Public Service at <https://demographics.coopercenter.org/virginia-population-estimates>

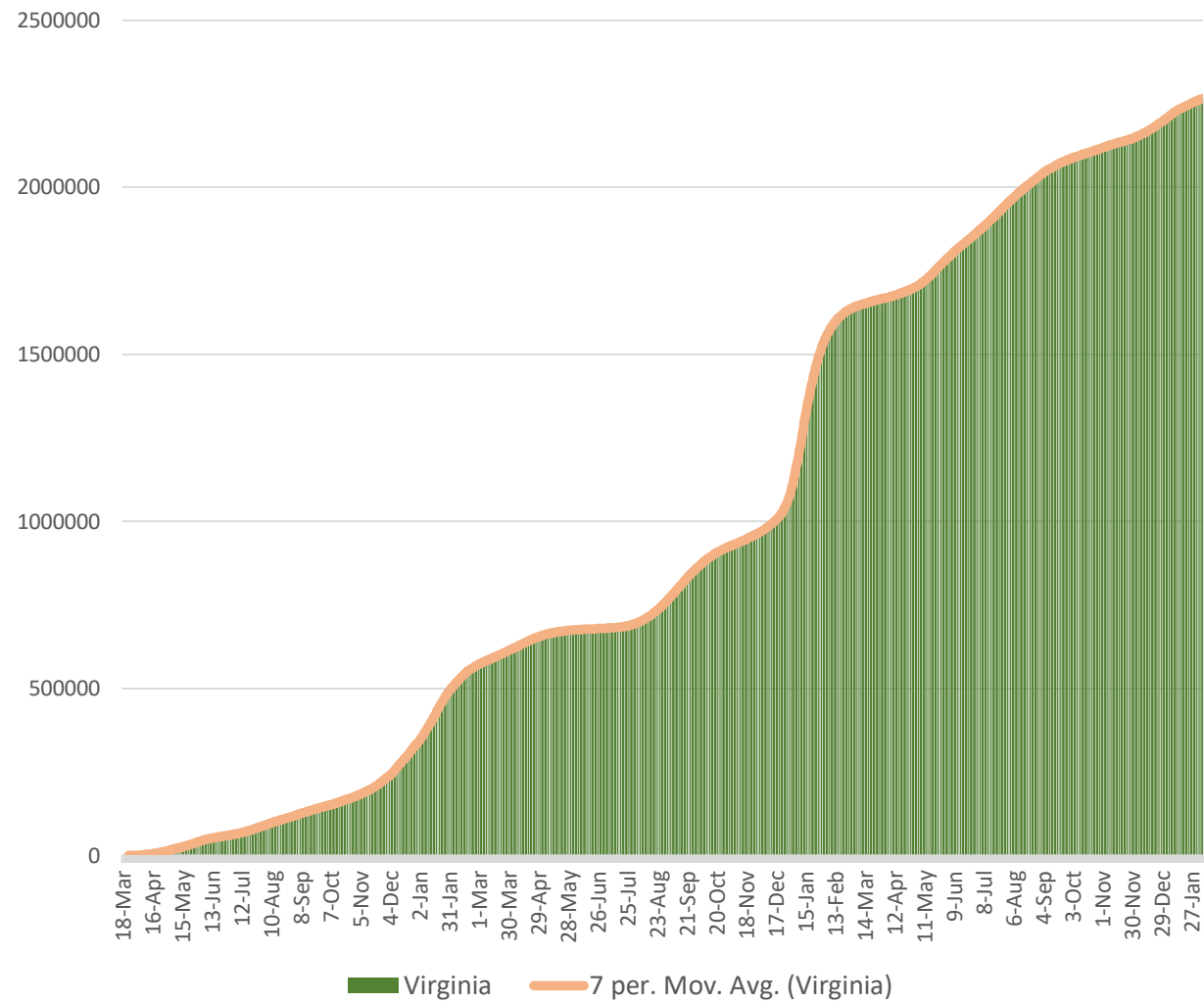
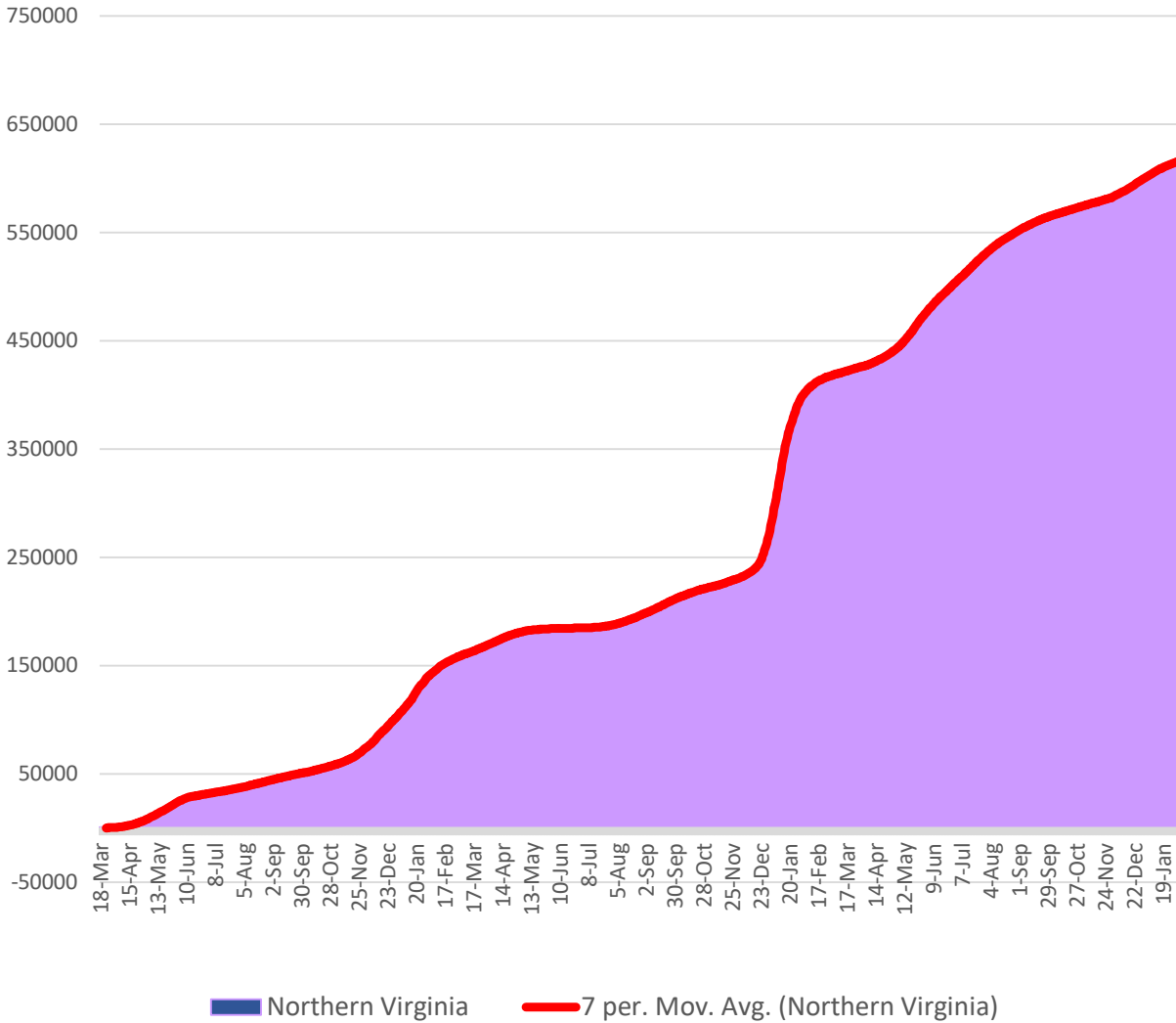
<sup>2</sup>Count of those testing positive for novel coronavirus. With limited testing, actual incidence and prevalence are not known.

<sup>3</sup>Includes Fairfax City and Falls Church

<sup>4</sup>Includes Manassas and Manassas Park

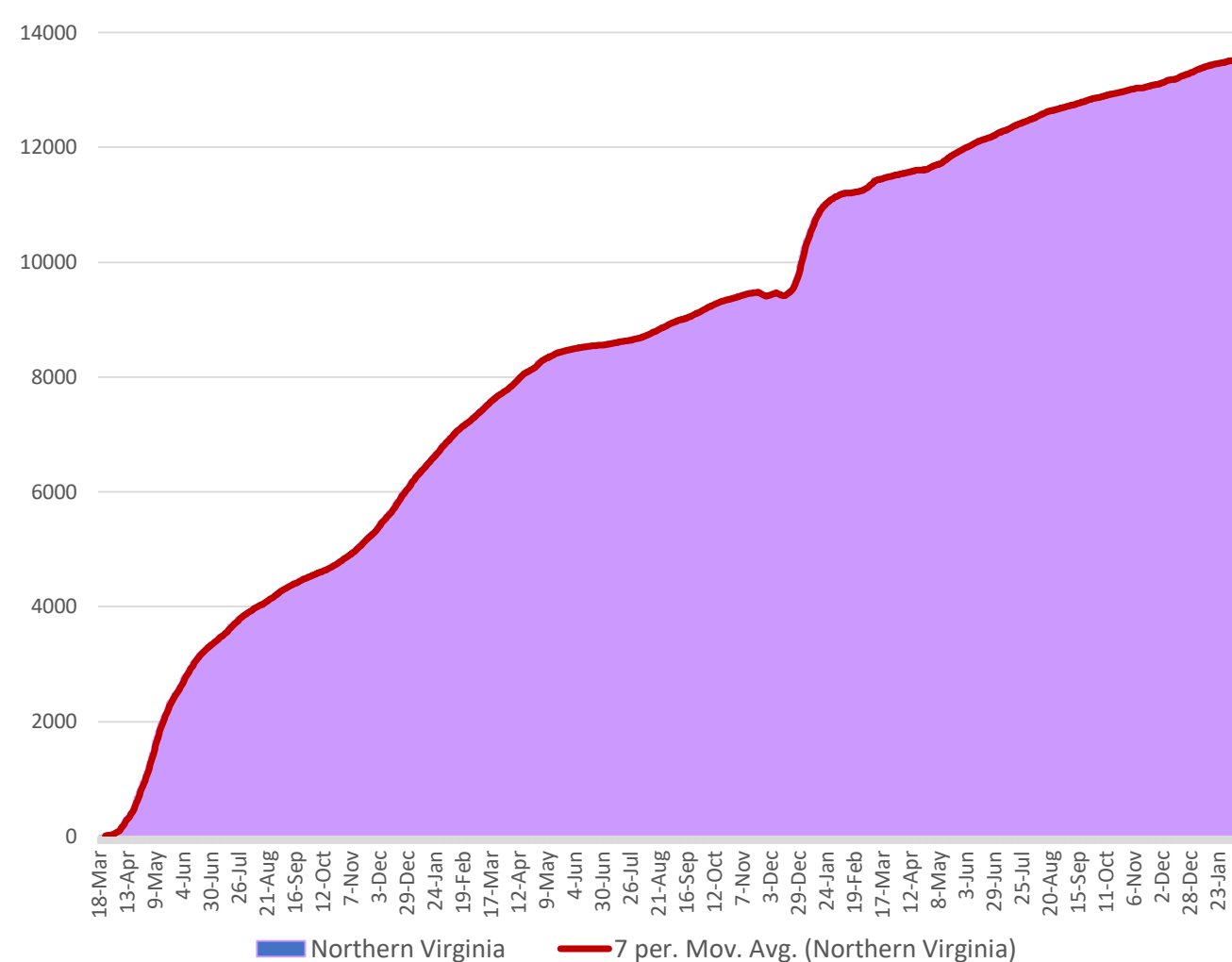
# Northern Virginia COVID-19 Cases, Cumulative March 18, 2020 – February 7, 2023

# Virginia COVID-19 Cases, Cumulative March 18, 2020 – February 7, 2023

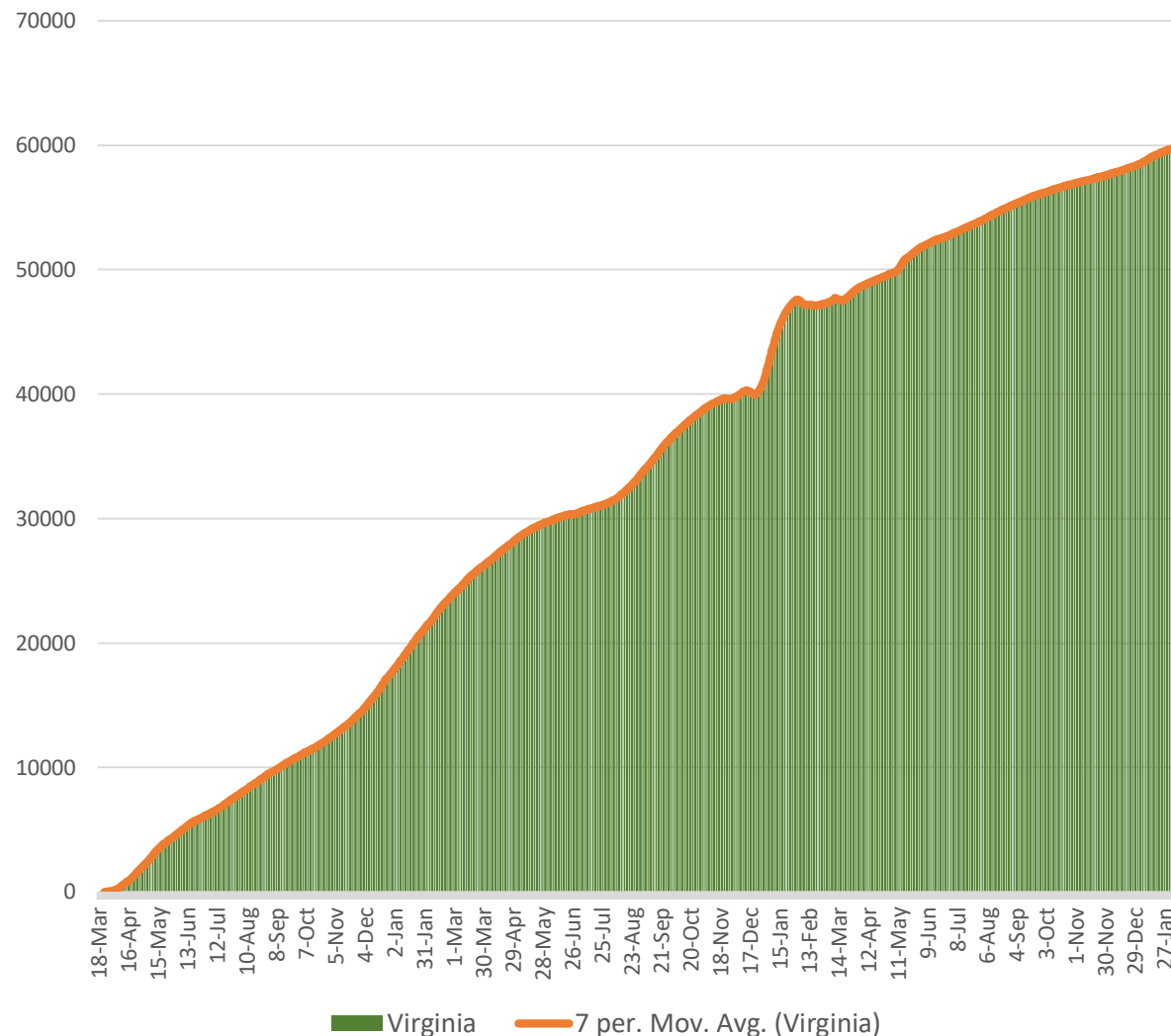


Source: VDH Covid-19 Public Use Dataset – Cases thru February 7, 2023 at <https://www.vdh.virginia.gov/coronavirus/>  
 Charts/Tabulations HSNV Staff, 2023. 7 per = 7 Day Moving Average

## Northern Virginia COVID-19 Hospitalizations, Cumulative March 18, 2020 – February 7, 2023

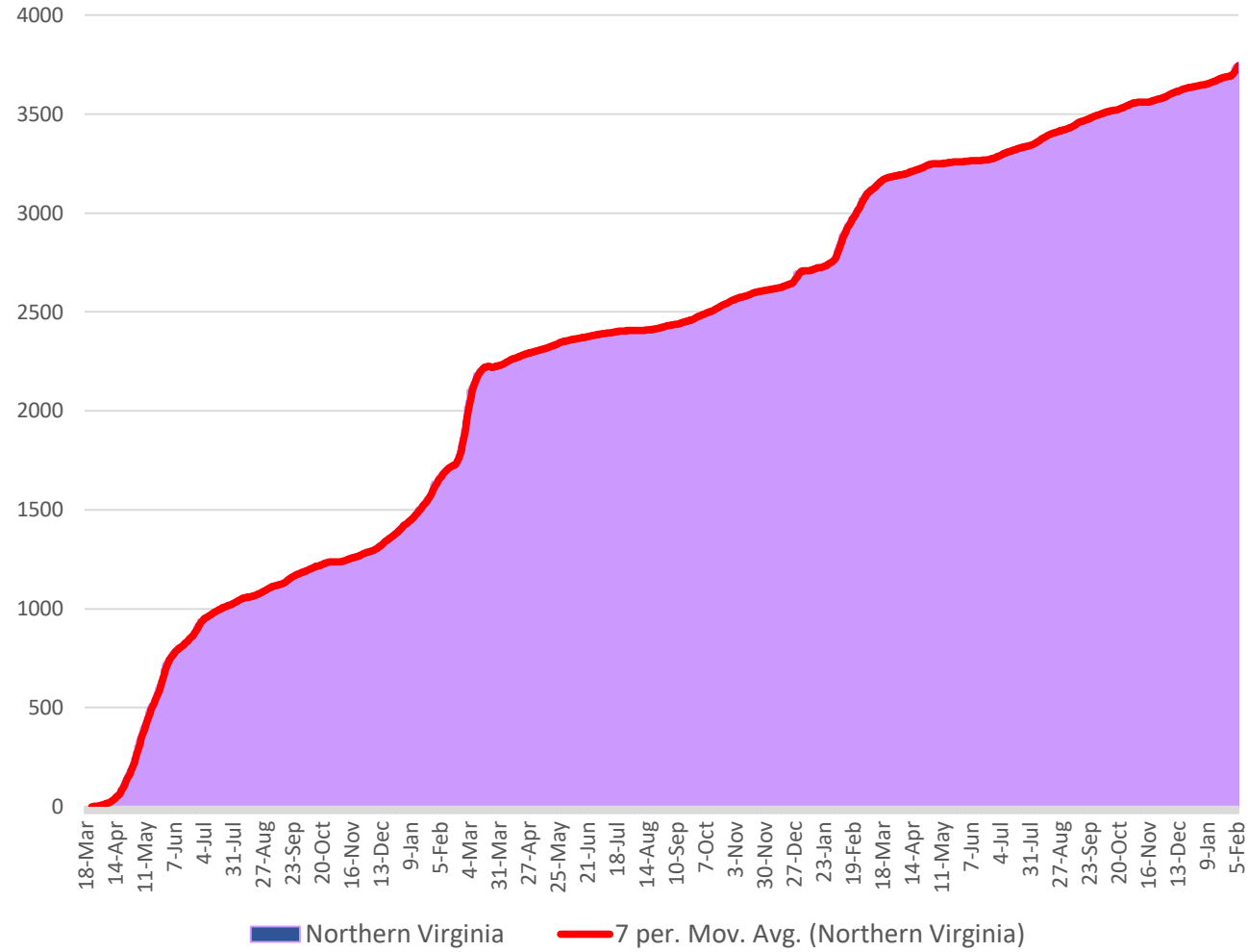


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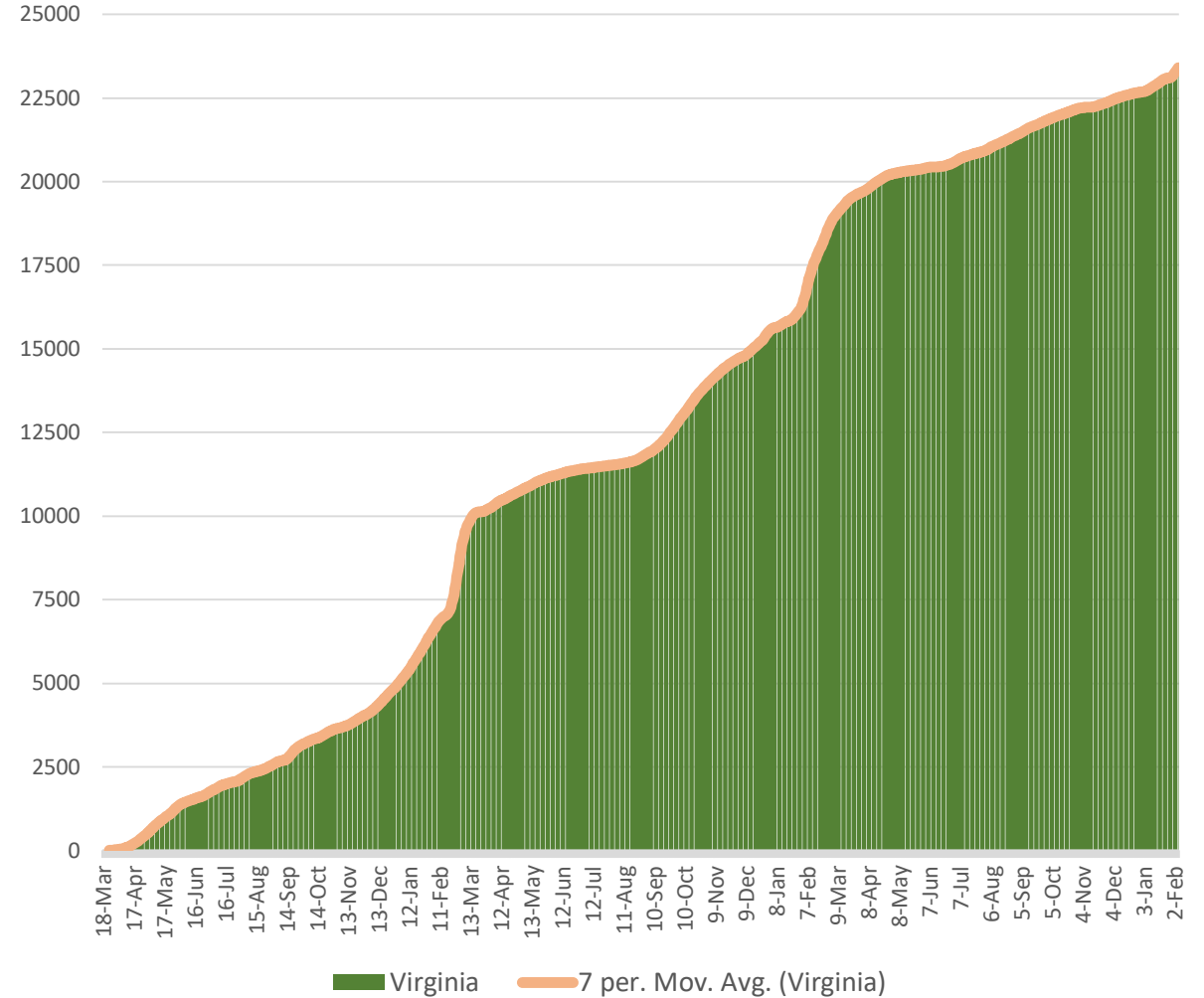


Source: VDH Covid-19 Public Use Dataset – Cases thru February 7, 2023 at <https://www.vdh.virginia.gov/coronavirus/>  
Charts/Tabulations HSNV Staff, 2023. 7 per = 7 Day Moving Average

## Northern Virginia COVID-19 Deaths, Cumulative March 18, 2020 – February 7, 2023

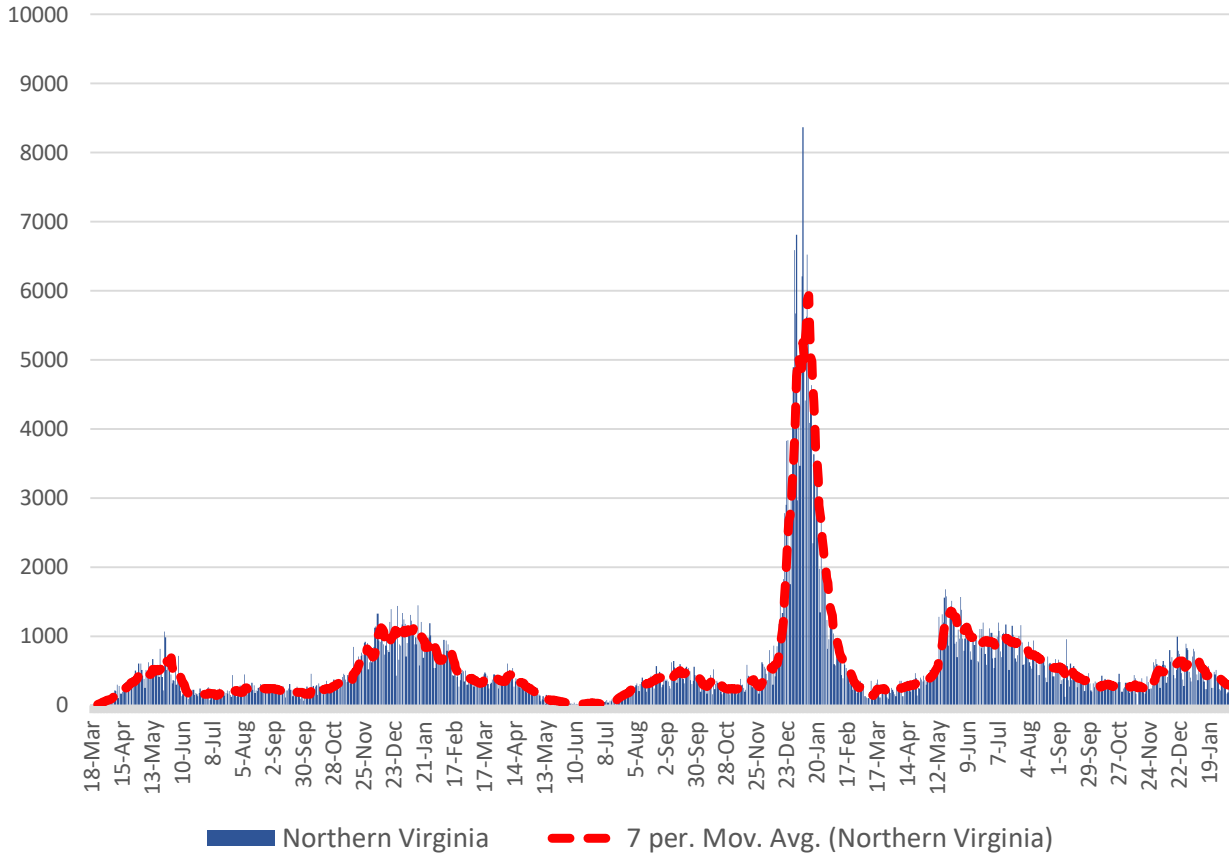


## Virginia COVID-19 Deaths, Cumulative March 18, 2020 – February 7, 2023

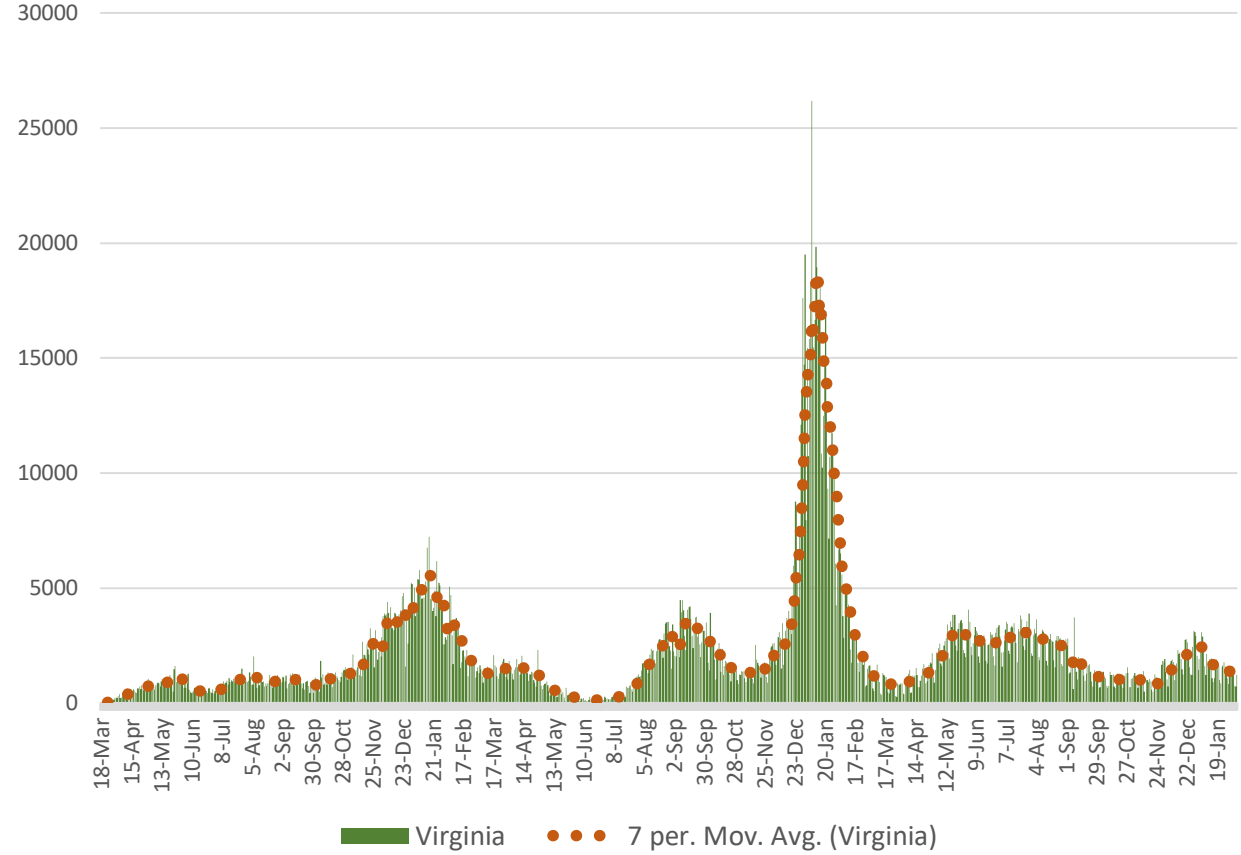


Source: VDH Covid-19 Public Use Dataset – Cases thru February 7, 2023 at <https://www.vdh.virginia.gov/coronavirus/>  
Charts/Tabulations HSNV Staff, 2023. 7 per = 7 Day Moving Average

**Northern Virginia**  
**Daily [New] COVID-19 Cases**  
**March 18, 2020 - February 7, 2023**

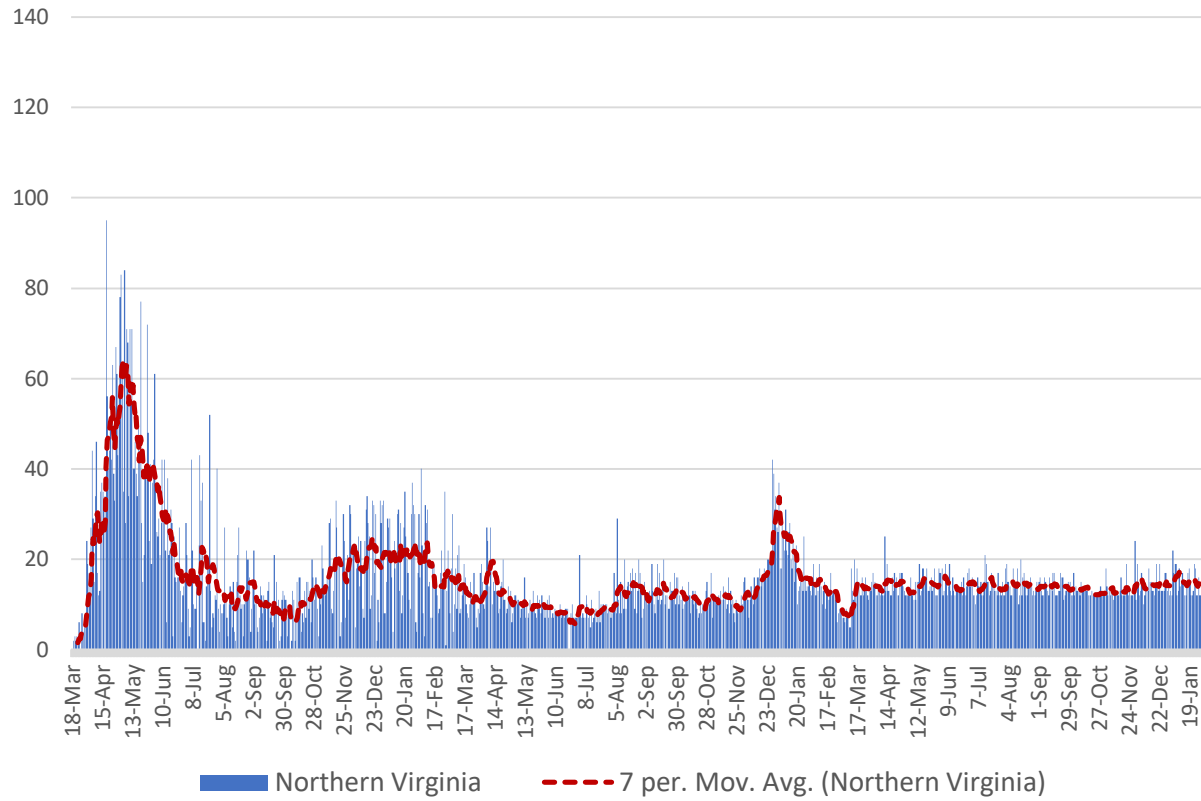


**Virginia**  
**Daily [New] COVID-19 Cases**  
**March 18, 2020 - February 7, 2023**

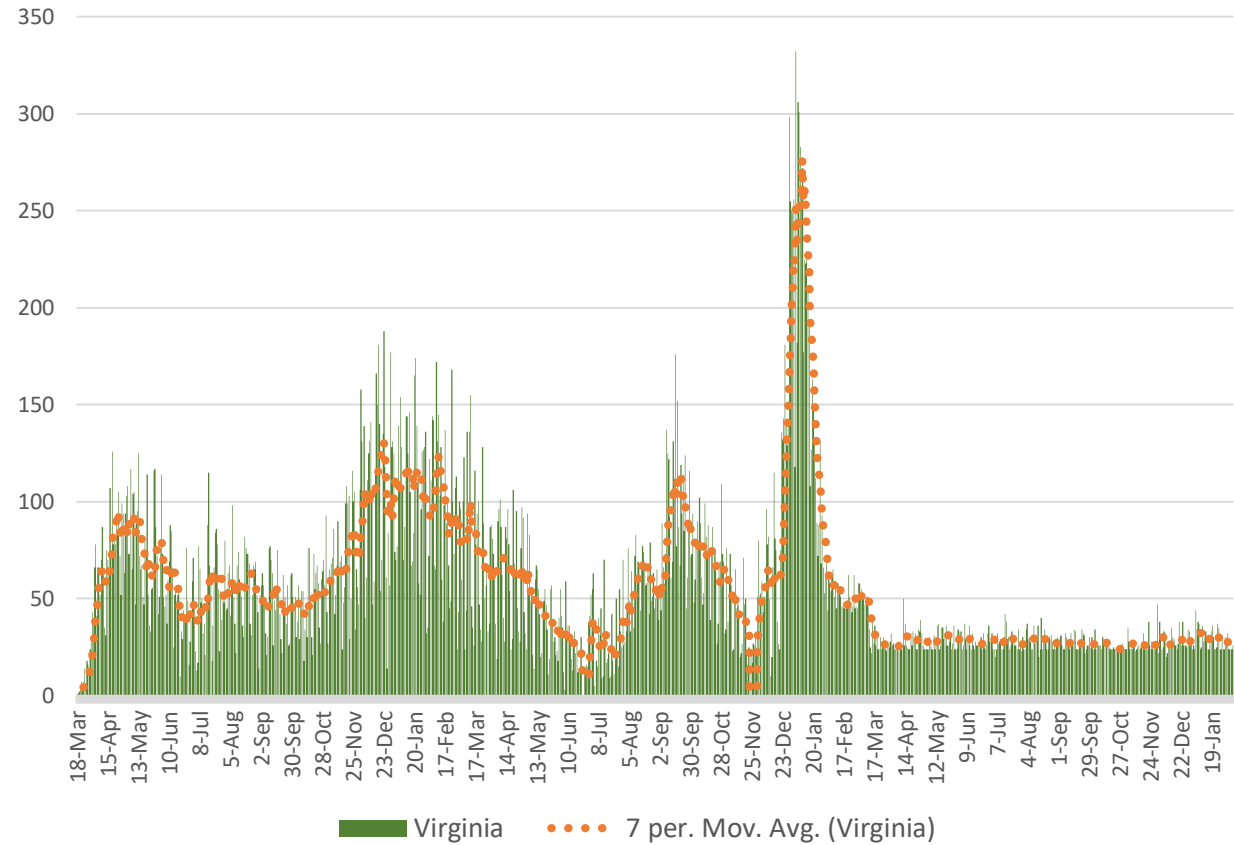


Source: VDH Covid-19 Public Use Dataset – Cases thru February 7, 2023 at <https://www.vdh.virginia.gov/coronavirus/>  
 Charts/Tabulations HSNV Staff, 2023. 7 per = 7 Day Moving Average

## Northern Virginia COVID-19 Hospitalizations by Date Reported March 18, 2020 - February 7, 2023



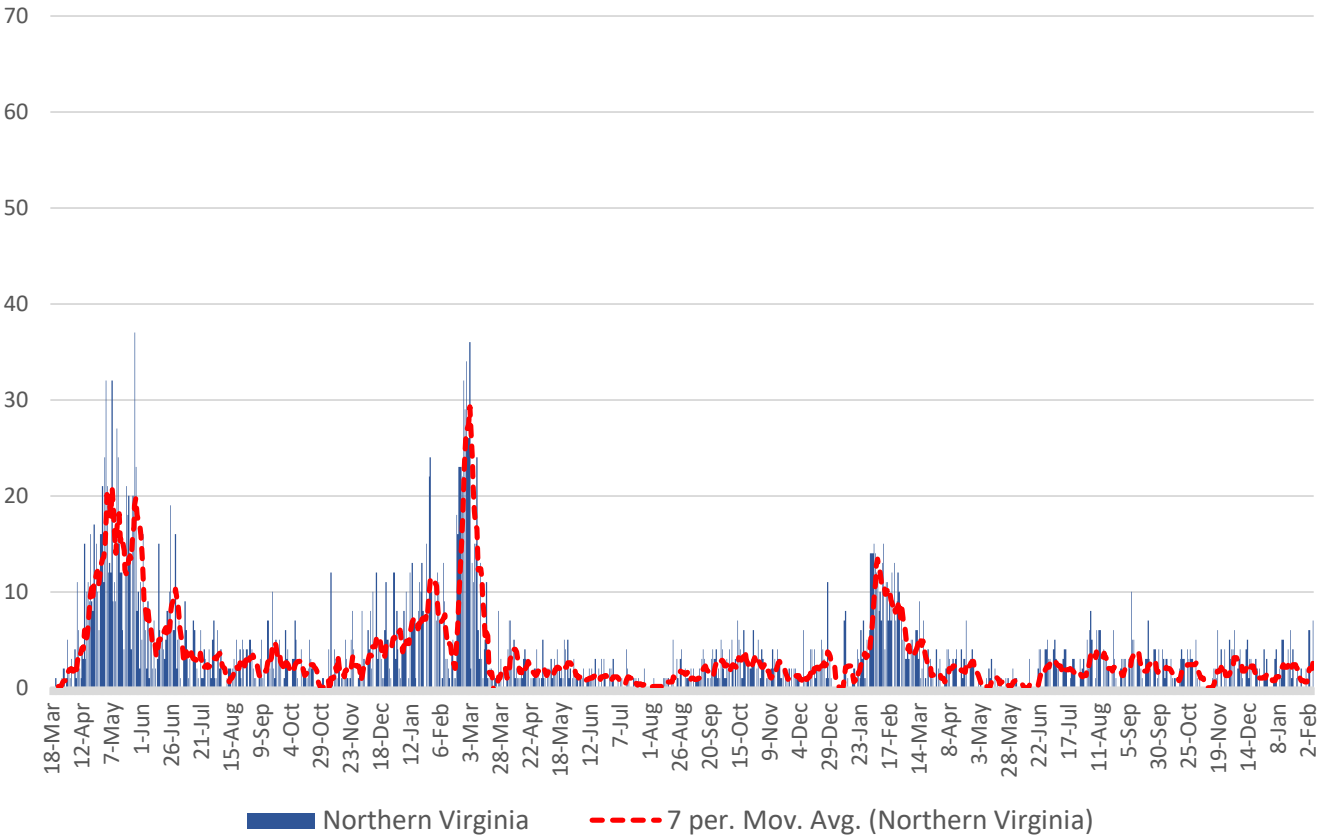
## Virginia COVID-19 Hospitalizations by Date Reported March 18, 2020 - February 7, 2023



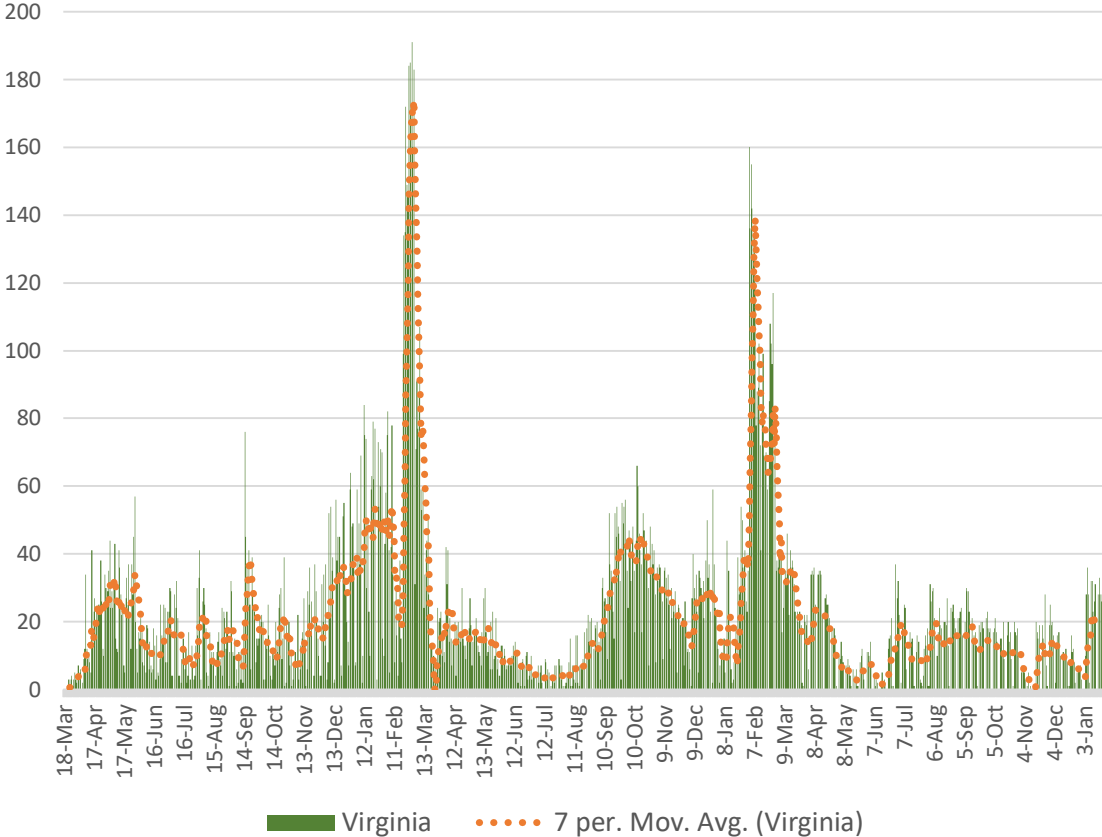
Source: VDH Covid-19 Public Use Dataset – Cases thru February 7, 2023 at <https://www.vdh.virginia.gov/coronavirus/>  
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## Northern Virginia COVID-19 Deaths by Date Reported March 18, 2020 - February 7, 2023

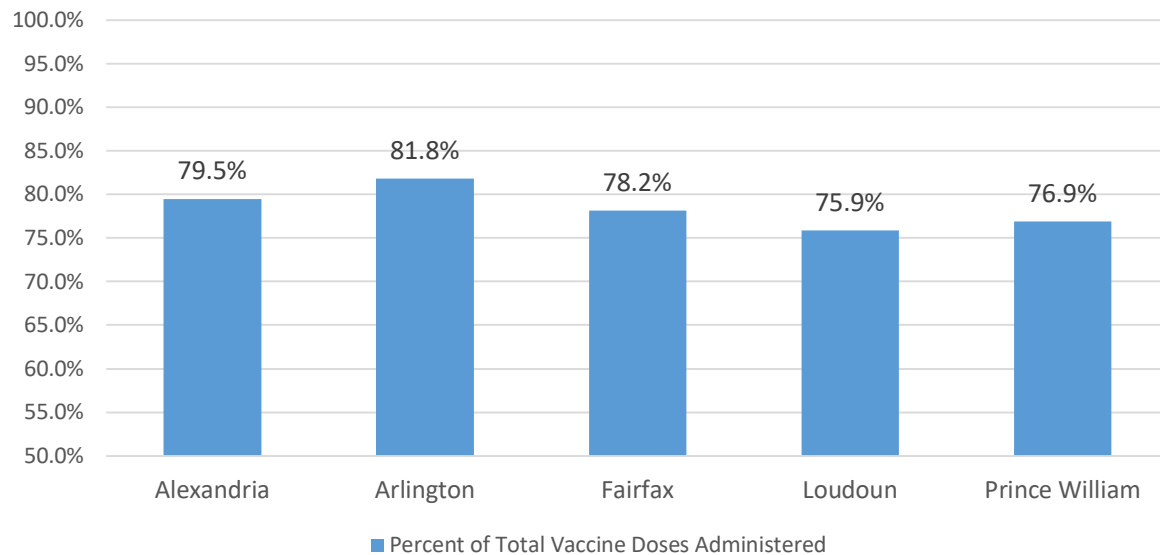


## Virginia COVID-19 Deaths by Date Reported March 18, 2020 - February 7, 2023

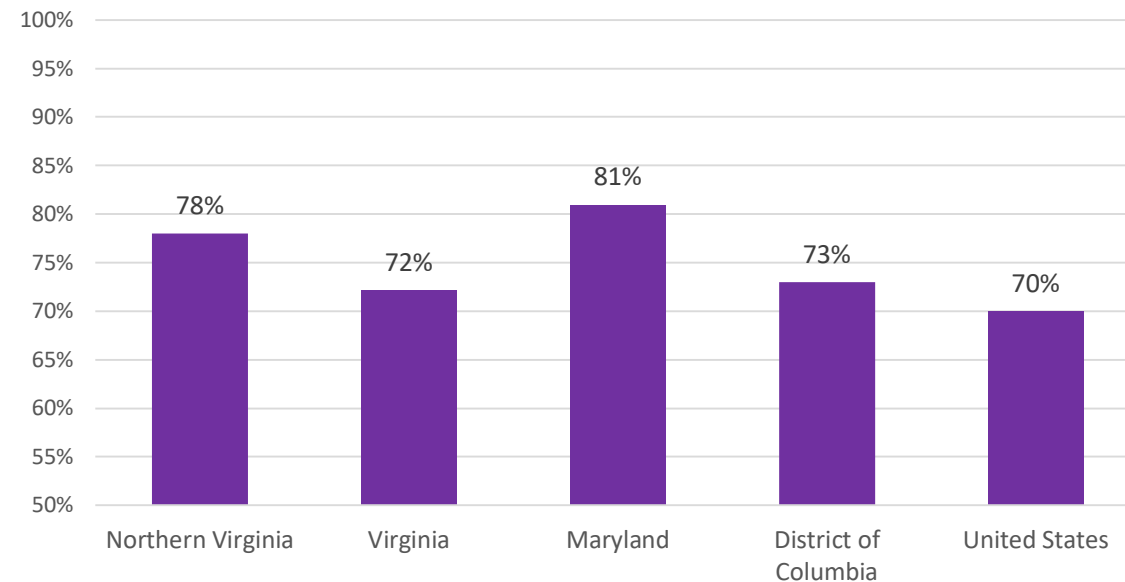


Source: VDH Covid-19 Public Use Dataset – Cases thru February 7, 2023 at <https://www.vdh.virginia.gov/coronavirus/>  
Charts/Tabulations HSNV Staff, 2023. 7 per = 7 Day Moving Average

**Northern Virginia Health Districts  
 Percentage of COVID-19 Vaccine Doses Administered  
 (1st thru 6th)  
 Based on Jurisdiction Vaccine Supply Received  
 As of January 31, 2023**

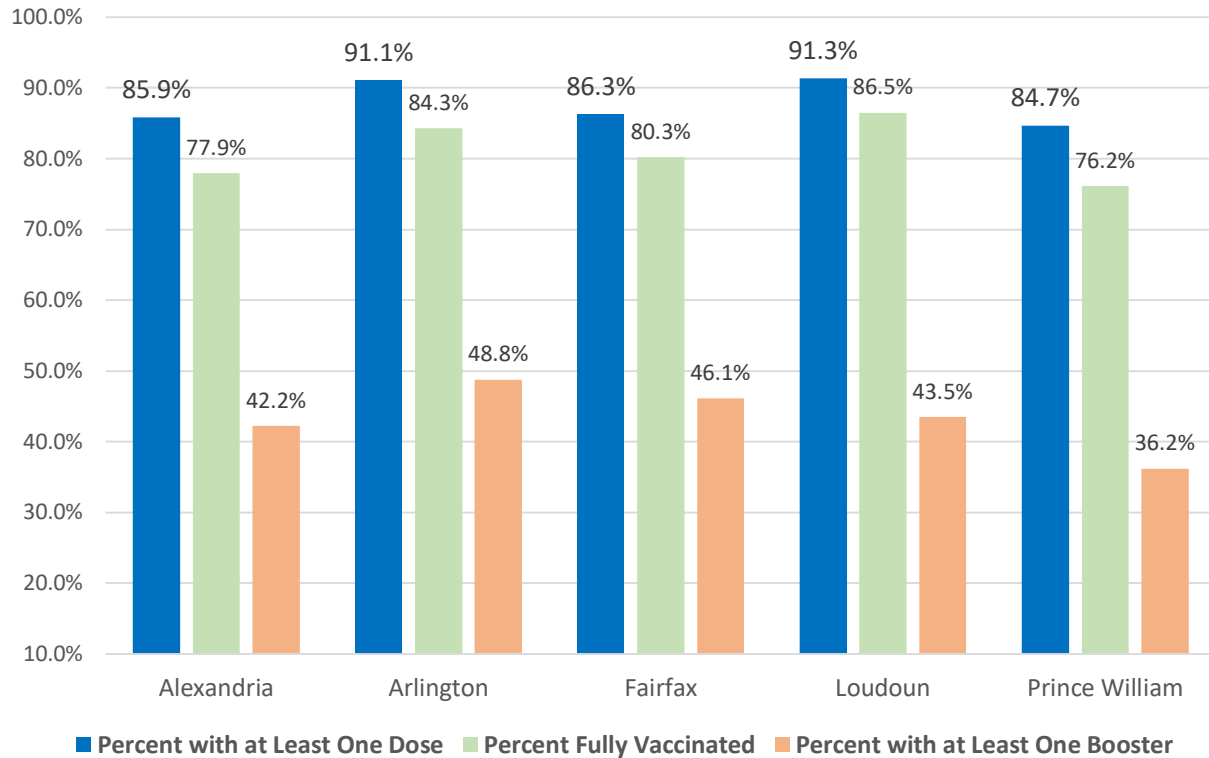


**Northern Virginia, Virginia, Maryland, D.C. and U. S.  
 Percentage of COVID-19 Vaccine Doses Administered  
 (1st thru 6th)  
 Based on Jurisdiction Vaccine Supply Received  
 As of January 31, 2023**

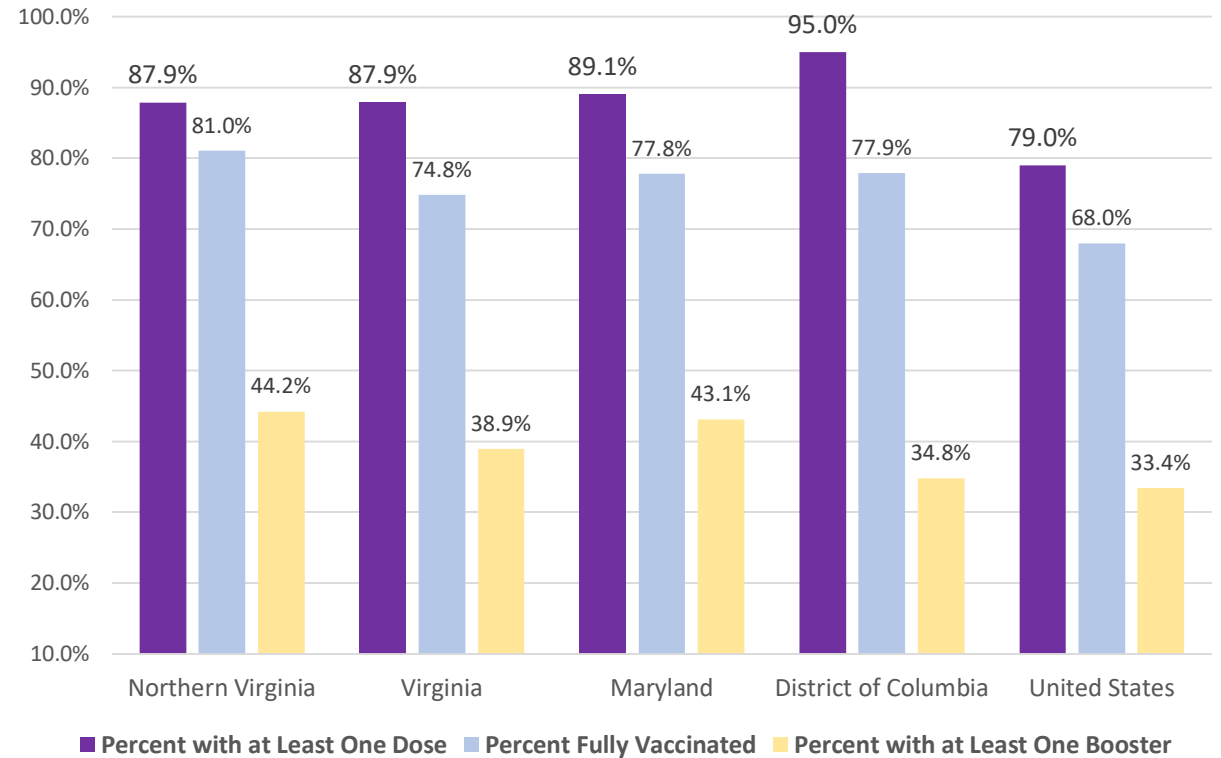


Source: VDH Covid-19 Public Use Dataset – January 31, 2023 at <https://www.vdh.virginia.gov/coronavirus/>; CDC Covid-19 Data as of January 31, 2023.  
 Charts/Tabulations HSANV Staff, 2023. 7 per = 7 Day Moving Average

**Northern Virginia Health Districts  
Percentage of Population Vaccinated  
As of January 31, 2023**

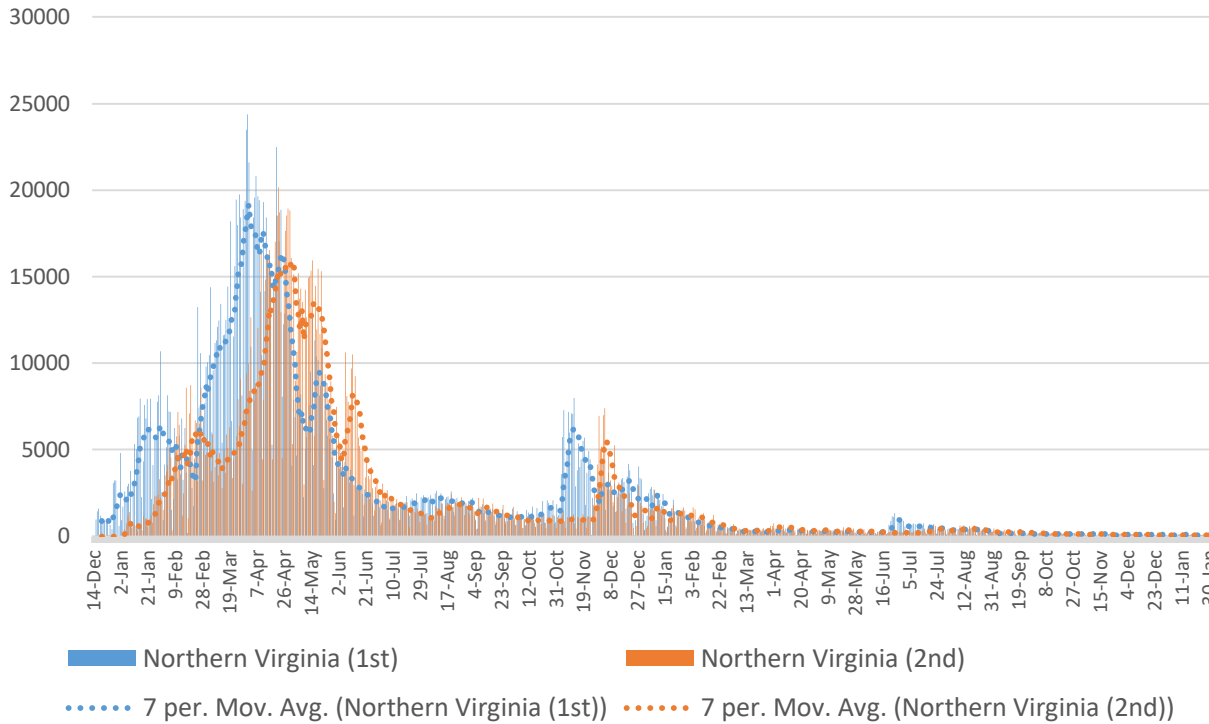


**Northern Virginia, Virginia, Maryland, D.C. and United States  
Percentage of Population Vaccinated  
As of January 31, 2023**

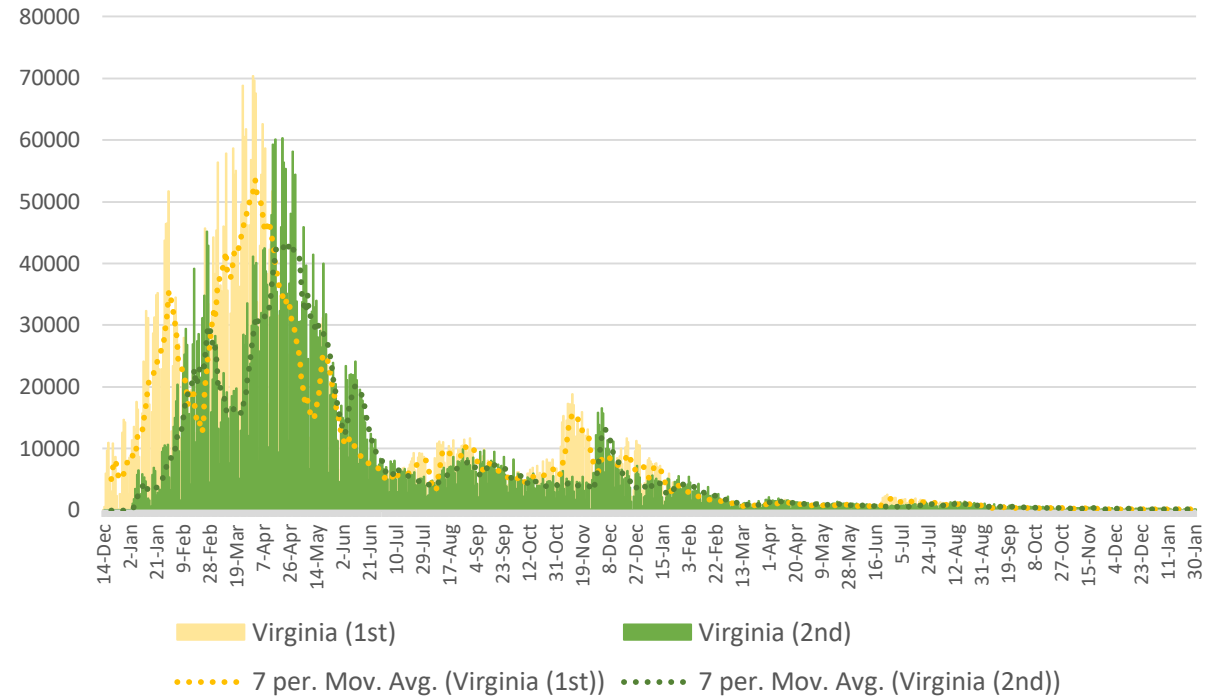


Source: VDH Covid-19 Public Use Dataset – January 31, 2023 at <https://www.vdh.virginia.gov/coronavirus/>; CDC Covid-19 Data as of January 31, 2023.  
Charts/Tabulations HSNV Staff, 2023. 7 per = 7 Day Moving Average

### Northern Virginia COVID-19 Vaccine 1st and 2nd Doses by Date Administered As of January 31, 2023

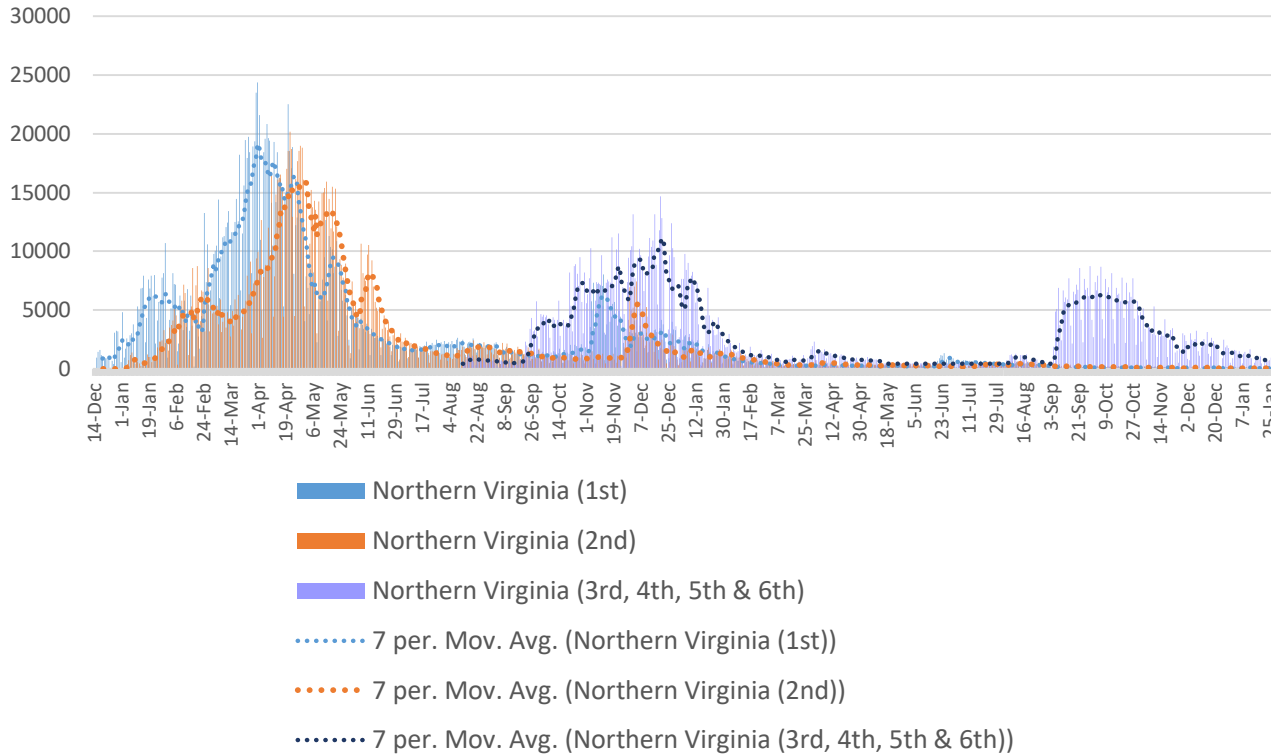


### Virginia COVID-19 Vaccine 1st and 2nd Doses by Date Administered As of January 31, 2023

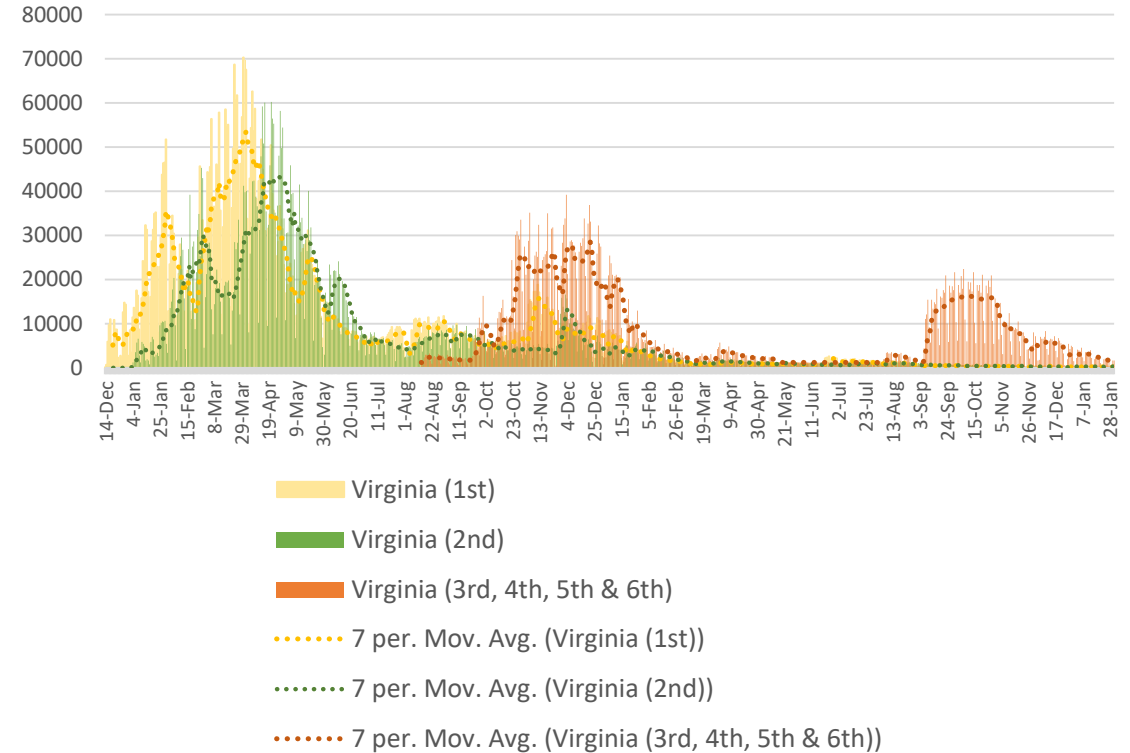


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## Northern Virginia COVID-19 Vaccine 1st, 2nd & 3rd/4th/5th/6th Doses by Date Administered As of January 31, 2023



## Virginia COVID-19 Vaccine 1st, 2nd & 3rd/4th/5th/6th Doses by Date Administered As of January 31, 2023



Source: VDH Covid-19 Public Use Dataset – January 31, 2023 at <https://www.vdh.virginia.gov/coronavirus/>; CDC Covid-19 Data as of January 31, 2023.  
 Charts/Tabulations HSANV Staff, 2023. 7 per = 7 Day Moving Average