

School Vaccine Requirements Impact on Vaccine Uptake

Kristin Collins
Deputy Director, Division of Immunization
Office of Epidemiology
Virginia Department of Health
May 2024

Virginia School Vaccine Requirements

2020

- Diphtheria, Tetanus & Pertussis (DTaP/Tdap)
- Hepatitis B
- Haemophilus Influenzae Type b (Hib)
- Measles, Mumps & Rubella (MMR)
- Pneumococcal (PCV)
- Polio
- Varicella (Chickenpox)
- Human Papillomavirus (HPV)
Females

Virginia School Vaccine Requirements

2021

- Diphtheria, Tetanus & Pertussis (DTaP/Tdap)
- Hepatitis B
- Haemophilus Influenzae Type b (Hib)
- Measles, Mumps & Rubella (MMR)
- Pneumococcal (PCV)
- Polio
- Varicella (Chickenpox)

- Rotavirus
- Hepatitis A
- MenACWY
- Human Papillomavirus (HPV)
Females and Males

Virginia Immunization Information System

Virginia
Immunization
Information System
(VIIS) created
through legislation



VIIS launched
out of pilot

Meaningful Use
Electronic Health
Record Health (EHR)
system incentive
program to report to
VIIS

VFC Provider
Reporting
Requirement to
VIIS

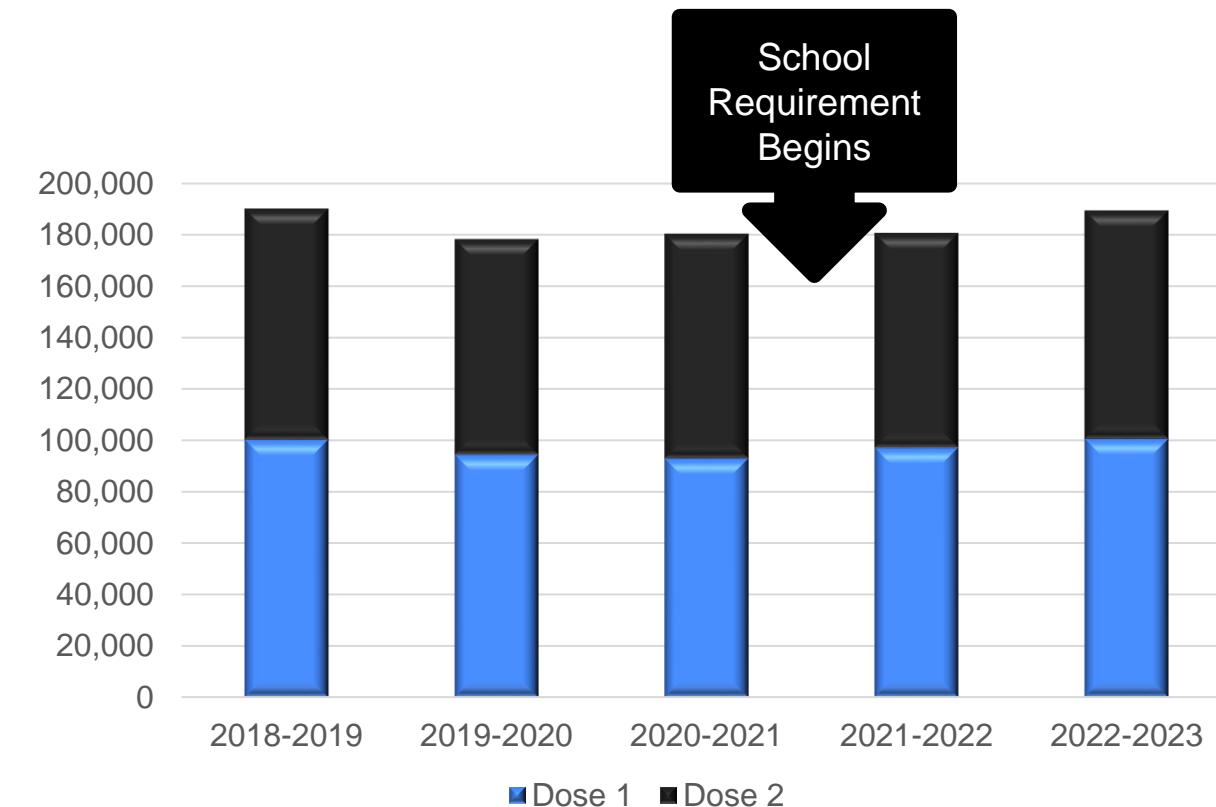
COVID
Immunization
Reporting
Requirement to
VIIS

All Immunization
Reporting
Requirement to
VIIS

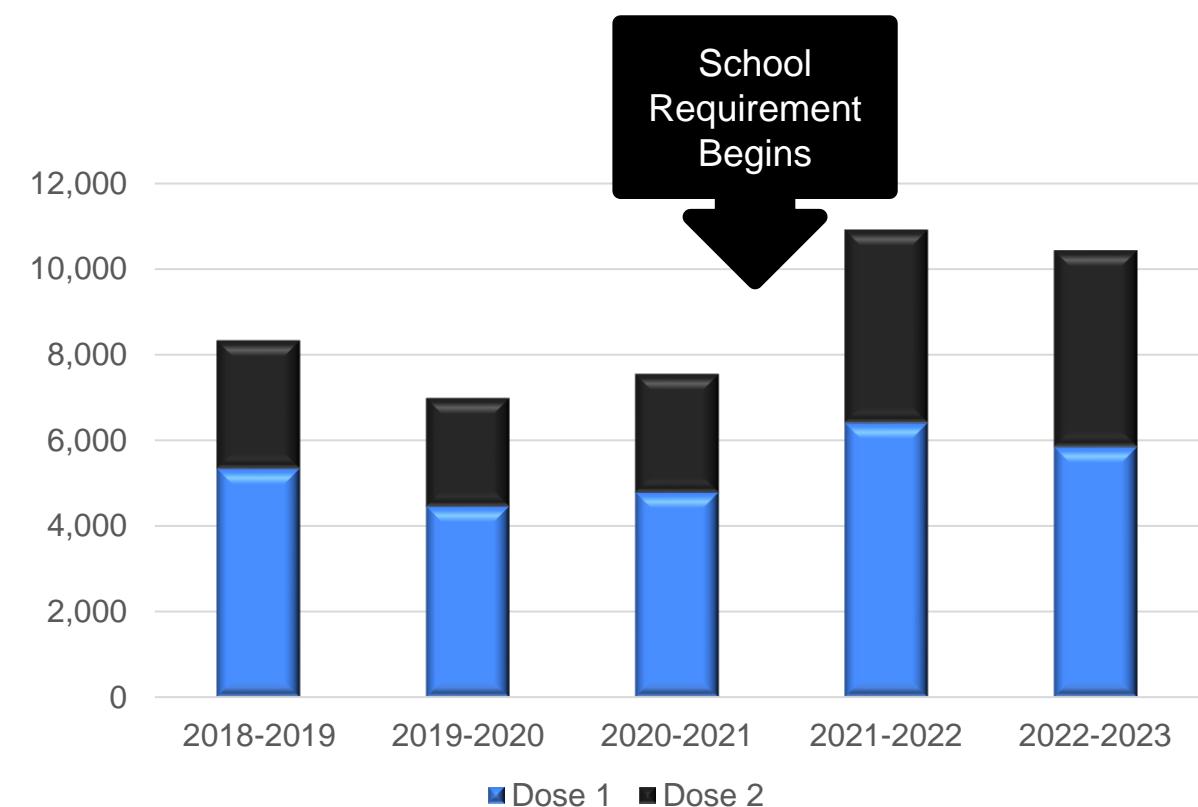
VIIS Data Considerations and Limitations

- IIS vaccine doses geocoded in Google Cloud Platform Data Warehouse
- Limitations
 - Required reporting to IIS only began 2022
 - No definitive list of providers who administer vaccines
 - IIS to IIS connection exists only with Delaware (as of December 2023)
 - Federal Partners: IIS is connected to Veterans Affairs but not yet Department of Defense
 - Schools often use VIIS to query/look up records but do not report doses administered

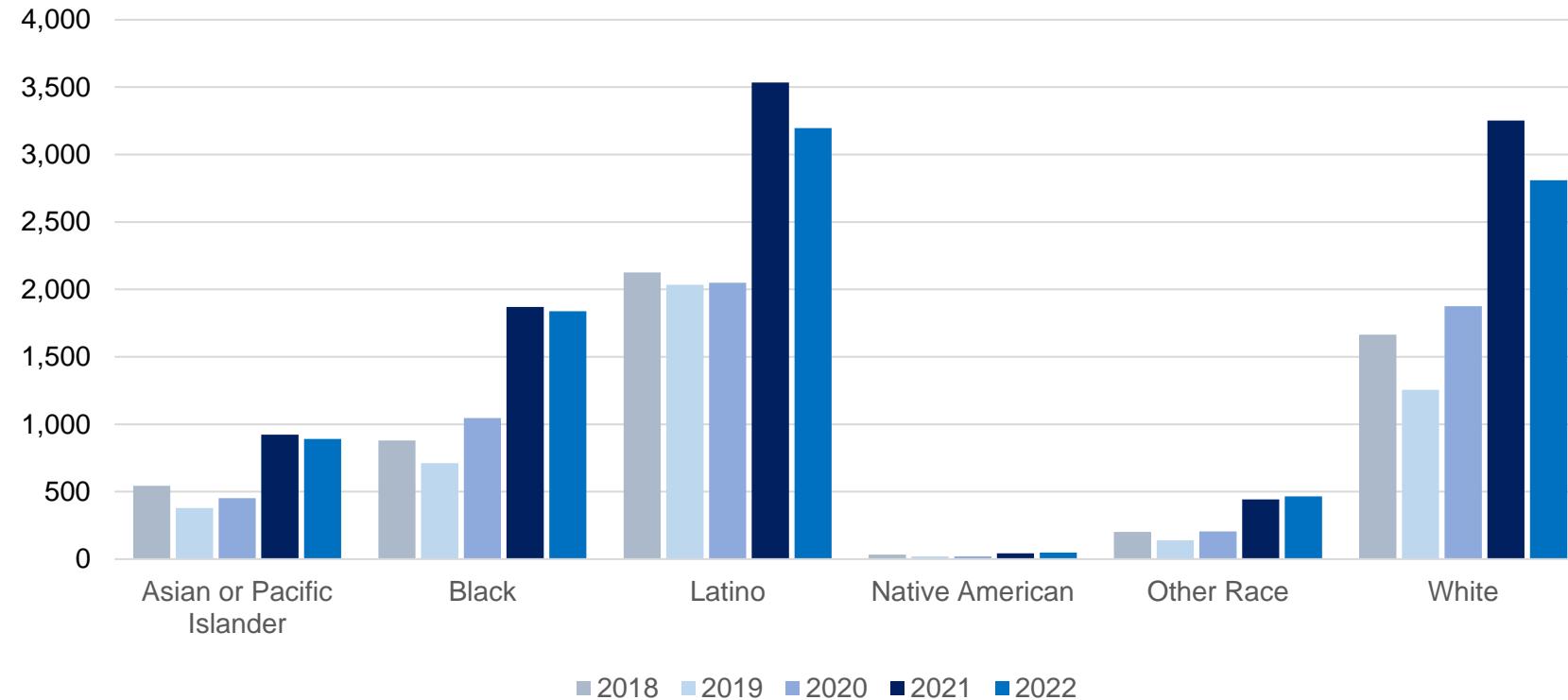
**Hepatitis A Vaccine Doses Children Under 7 Years
2018-2023**



**Hepatitis A Vaccine Doses Children 5-6 Years
2018-2023**



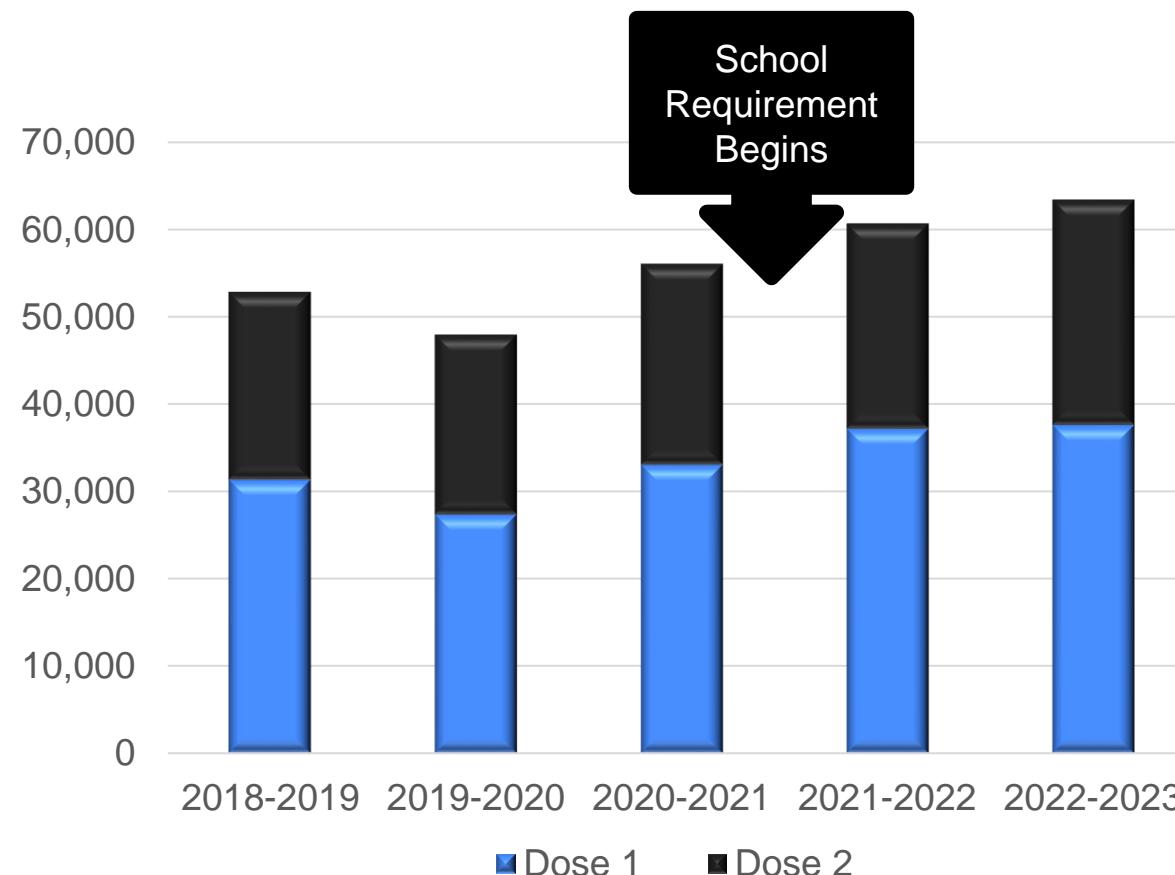
HepA Vaccine Doses Administered by Race/Ethnicity (Ages 5-6)



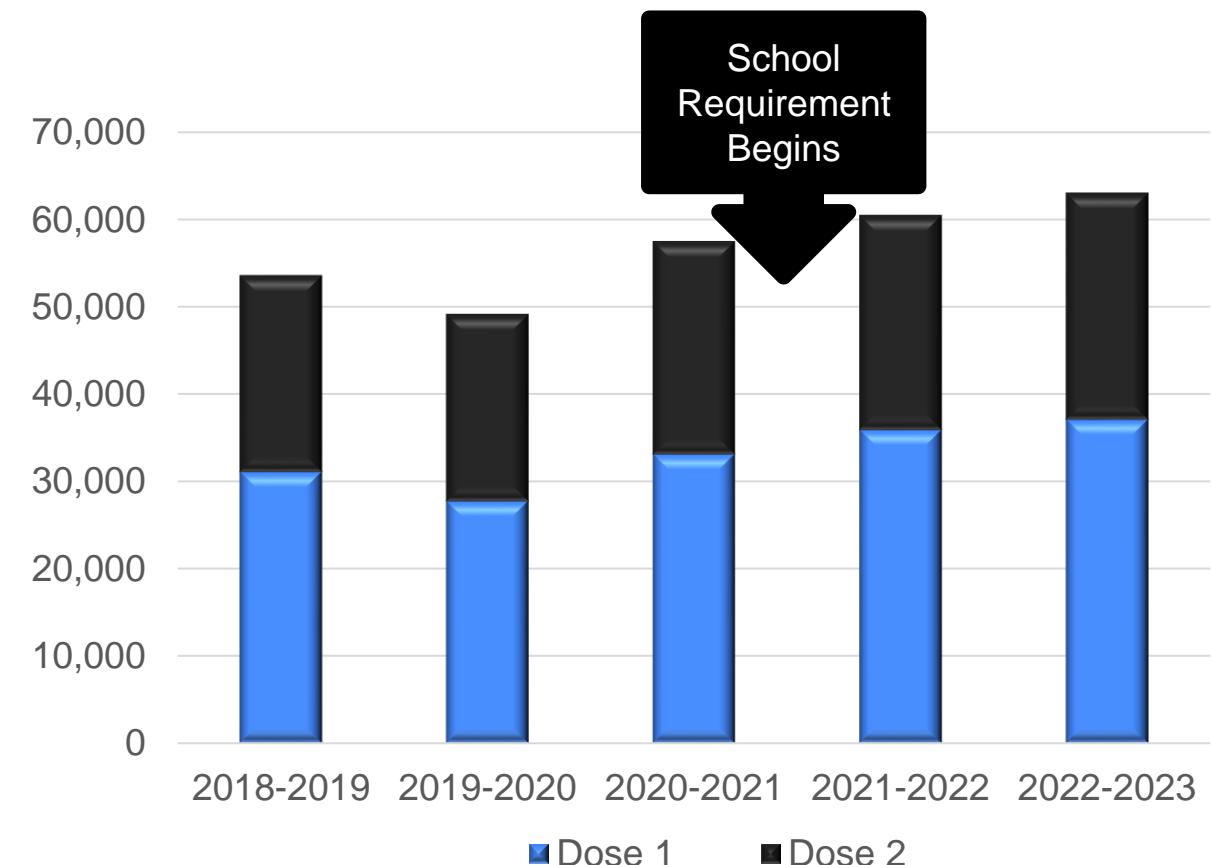
Year Over Year Change for Geographical Classifications – HepA (Ages 5-6)

Geographical Classification	2019	2020	2021	2022
Mixed Rural	-14.3%	4.9%	37.9%	-15.5%
Mixed Urban	-17.2%	4.3%	42.9%	-11.2%
Rural	-16.1%	23.8%	27.1%	-7.2%
Urban	-17.7%	5.6%	55.9%	-3.6%
Total	-17.0%	7.4%	47.7%	-6.6%

Number of HPV Doses Males 11-13 Years 2018-2023

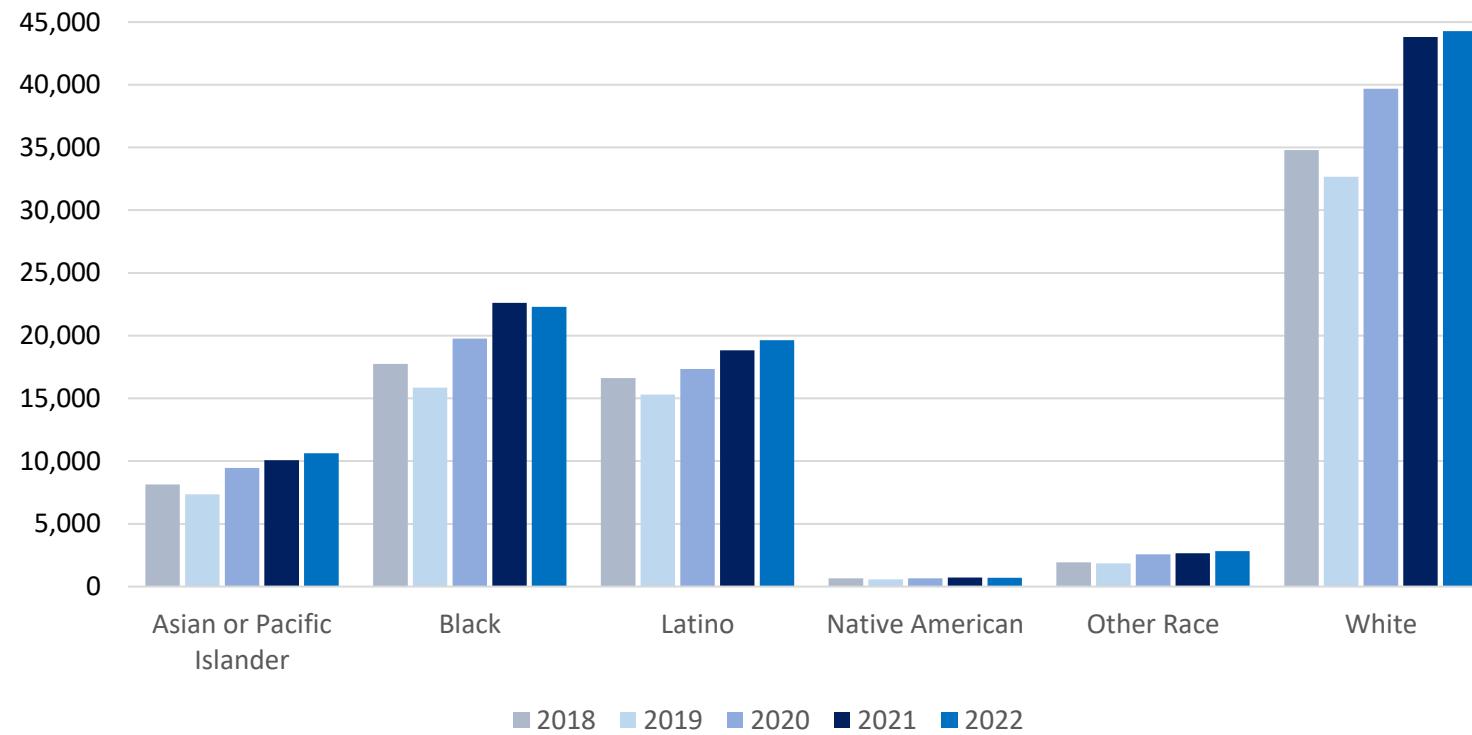


Number of HPV Doses Females 11-13 Years 2018-2023



School Year is July 1 – June 30
Ex: July 1, 2018 – June 30, 2019

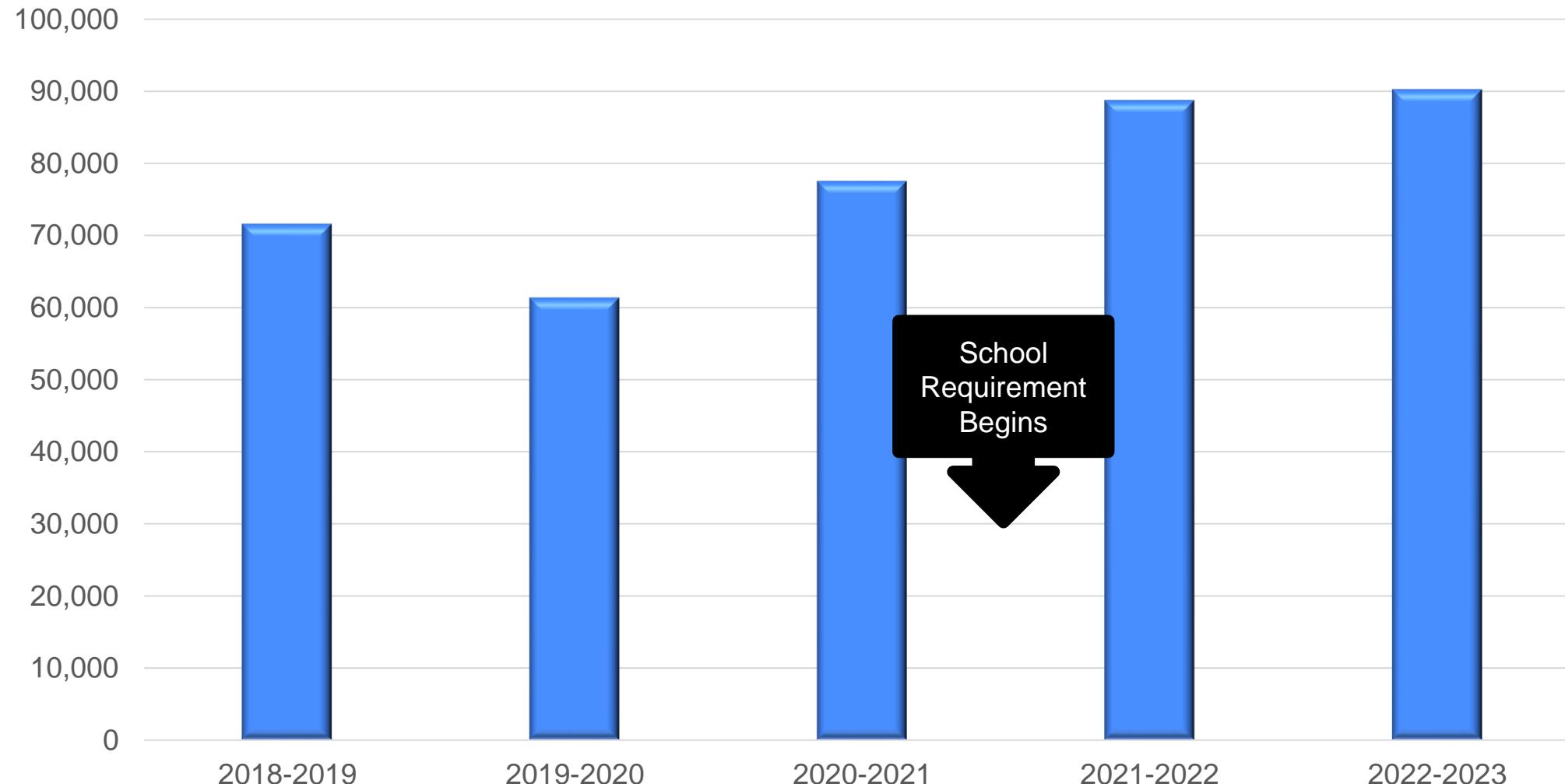
HPV Vaccine Doses Administered by Race/Ethnicity (Ages 11-13)



Year Over Year Change for Geographical Classifications – HPV (Ages 11-13)

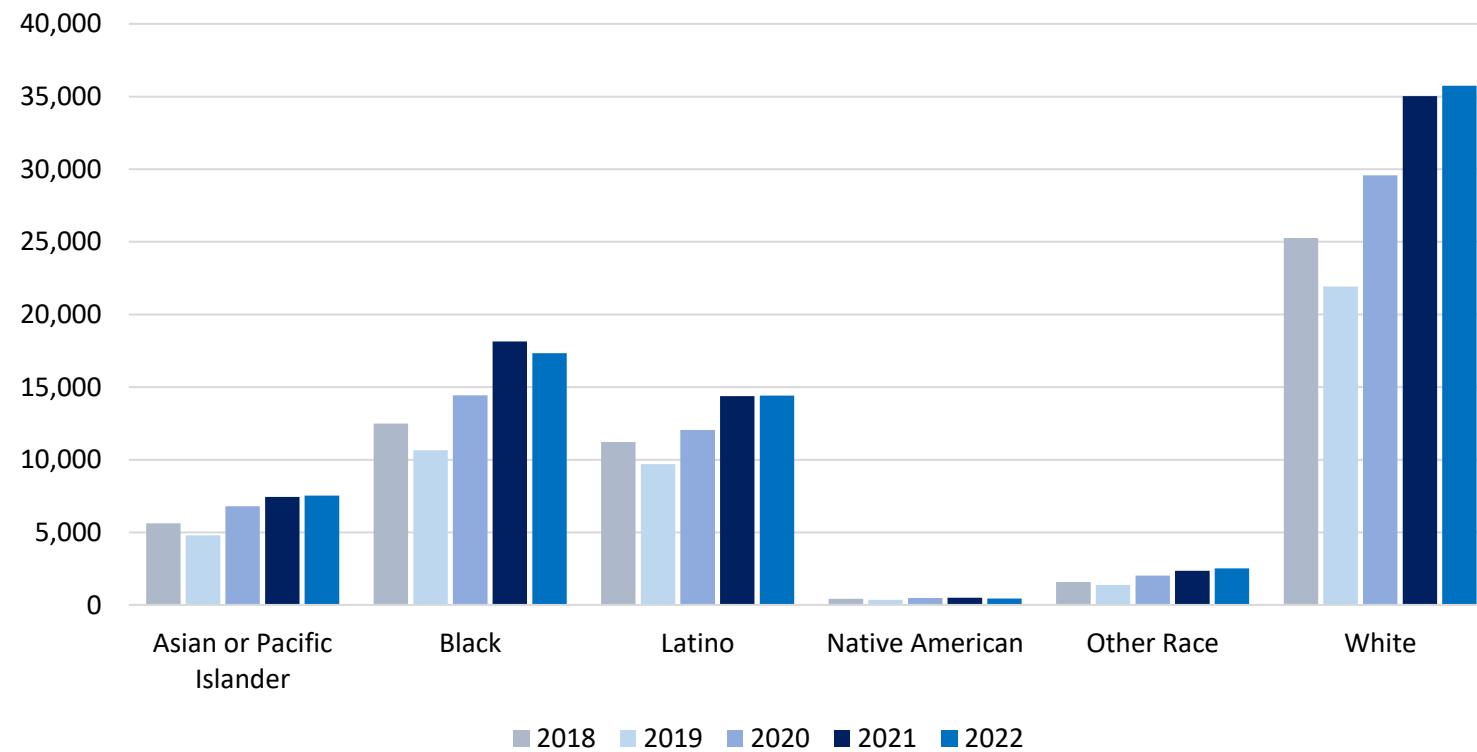
Geographical Classifications	2019	2020	2021	2022
Mixed Rural	-5.0%	12.3%	8.5%	-0.2%
Mixed Urban	-4.3%	19.5%	8.4%	1.8%
Rural	-7.1%	15.4%	5.2%	-0.4%
Urban	-10.2%	17.1%	5.6%	5.1%
Total	-8.1%	16.6%	6.4%	3.1%

Doses of MenACWY Children 11-13 Years 2018 - 2023



School Year is July 1 – June 30
Ex: July 1, 2018 – June 30, 2019

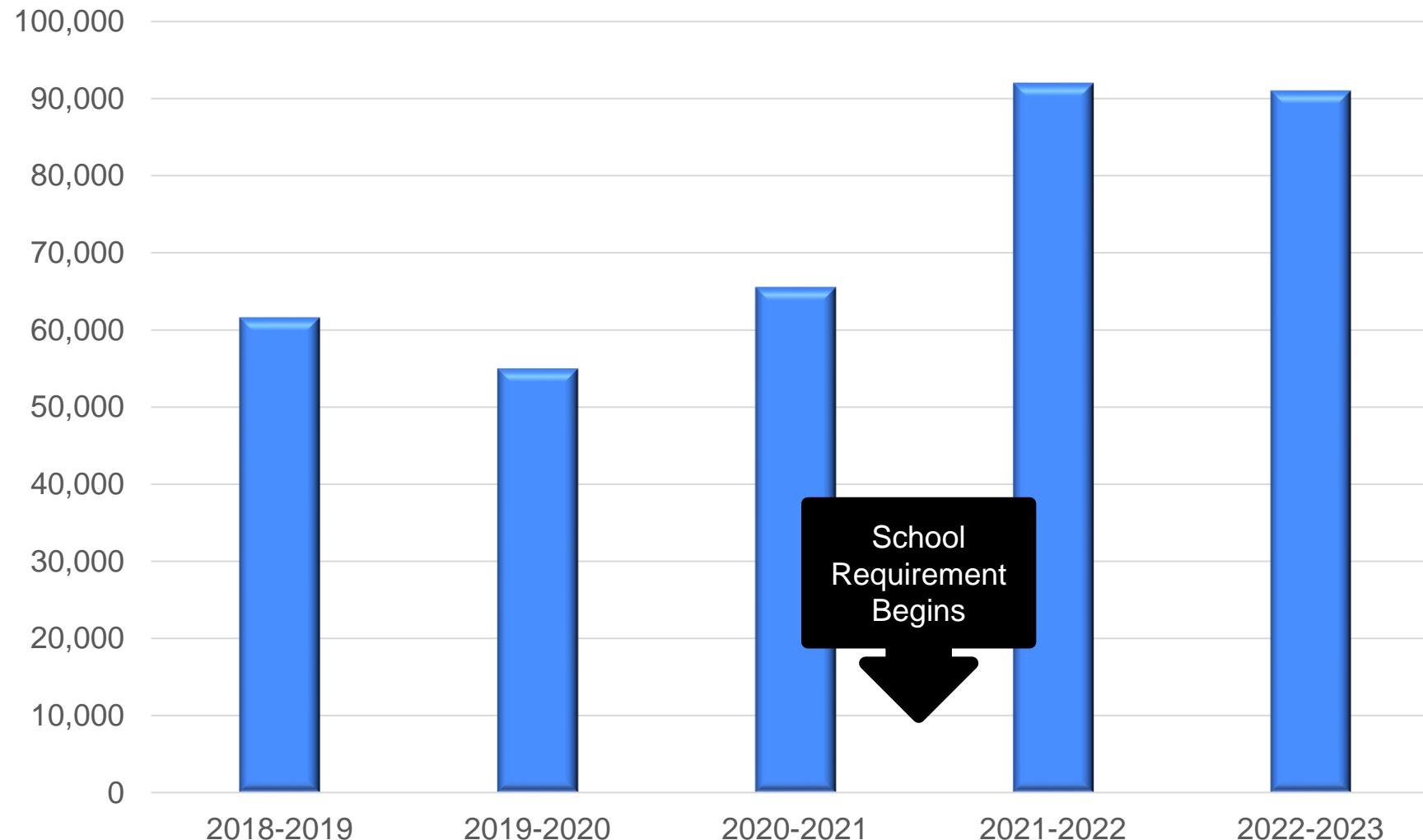
MenACWY Vaccine Doses Administered By Race/Ethnicity (Ages 11-13)



Year Over Year Change for Geographical Classifications – MenACWY (Ages 11-13)

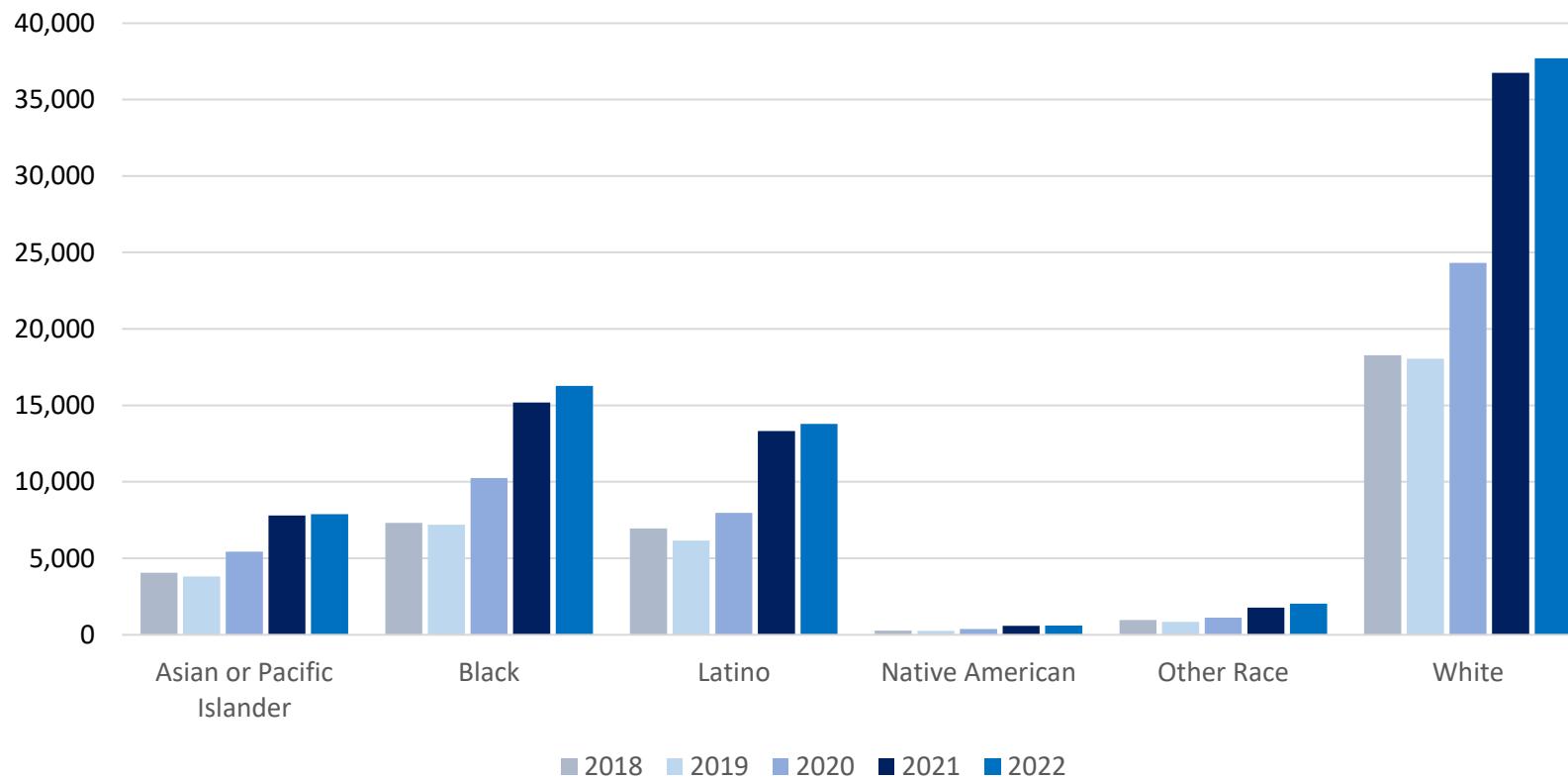
Geographic Classifications	2019	2020	2021	2022
Mixed Rural	-15.3%	24.0%	17.1%	2.1%
Mixed Urban	-11.7%	24.6%	10.7%	1.1%
Rural	-14.6%	25.5%	22.9%	0.0%
Urban	-14.7%	27.3%	12.3%	3.4%
Total	-14.3%	26.1%	14.0%	2.3%

Doses of MenACWY Children 16-18 Years 2018 - 2023



School Year is July 1 – June 30
Ex: July 1, 2018 – June 30, 2019

MenACWY Vaccine Doses Administered by Race/Ethnicity (Ages 16-18)



Year Over Year Change for Geographical Classifications – MenACWY (Ages 16-18)

Geographical Classifications	2019	2020	2021	2022
Mixed Rural	-4.7%	24.3%	53.1%	3.8%
Mixed Urban	-5.1%	30.8%	56.0%	1.5%
Rural	-8.8%	26.7%	70.3%	3.6%
Urban	-10.3%	23.9%	38.4%	7.4%
Total	-8.5%	25.5%	47.5%	5.2%

Benefits of School Vaccine Requirements

- Increases vaccine uptake, protects children, and prevents/limits community outbreaks.
- Improves children vaccinated on time.
- Creates equity in access to vaccines for all children.

Thank You!

Contact Information

Kristin.Collins@vdh.virginia.gov

<https://www.vdh.virginia.gov/immunization/>