

West Virginia Immunization Coverage: Working for the Data So the Data Can Work for Us

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What is an immunization coverage rate?

The percentage of a target population that has received the all recommended doses for each vaccine recommended by ACIP according to the schedules.

How are coverage rates used?

- Guiding disease eradication efforts and interventions
- Assessment of risk to the population in preparation for an outbreak of vaccine-preventable disease
- Monitoring and evaluating vaccination services
- Indicators of health system/facility performance
- Tell us which groups are most vulnerable

Tools for Monitoring Coverage Rates

WVSIIS Reports Module

Healthcare facilities can run coverage rate reports by vaccine series for any age group to assess patients within the facility's "ownership."

Coverage rate reports in WVSIIS can be limited to assess coverage rates within specific groups.

<i>Limit Report By</i>
State Level Status
County Level Status
Organization Level Status
Patient VFC Status
Vaccine Status
Patient Race
Gender
District/Region
Patient County
ZIP Code

The reports can also be used to quantify patients in each status category:

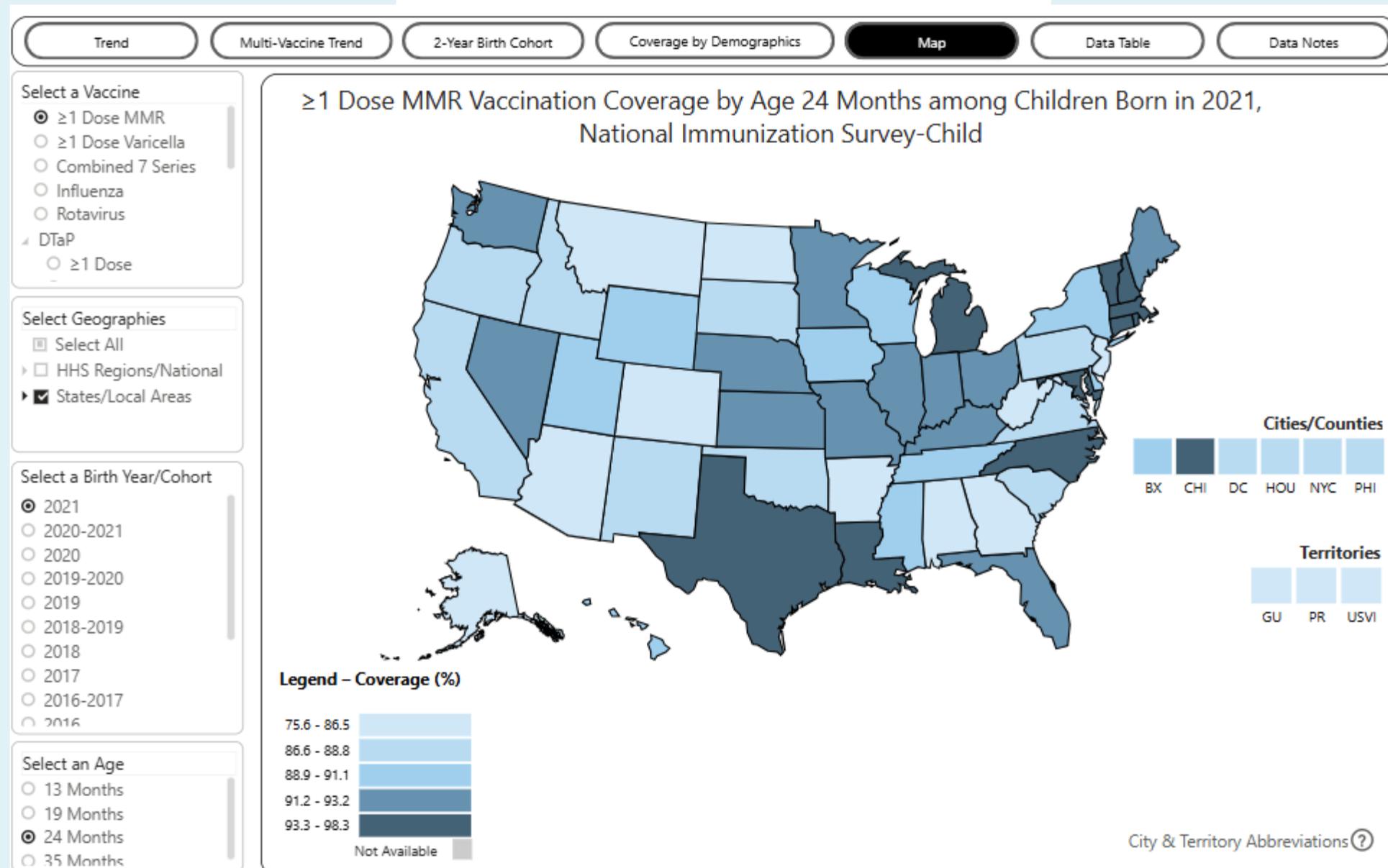
<i>Display Report Columns</i>
<input type="checkbox"/> Complete By Vaccine
<input type="checkbox"/> Incomplete Series
<input type="checkbox"/> One Dose to Complete Series
<input type="checkbox"/> One Visit to Complete Series (Multiple doses needed but could be given with one visit to vaccinator)
<input type="checkbox"/> Not Yet Due
<input type="checkbox"/> Not Yet Due (Late by Age)
<input type="checkbox"/> Missed Opportunities

Tools for Monitoring Coverage Rates

VaxView

CDC's hubs for nationwide vaccine coverage data that can be accessed by anyone, with interactive reports for kindergarteners, all children, adults, teens, or specific diseases including Flu, RSV, and Covid.

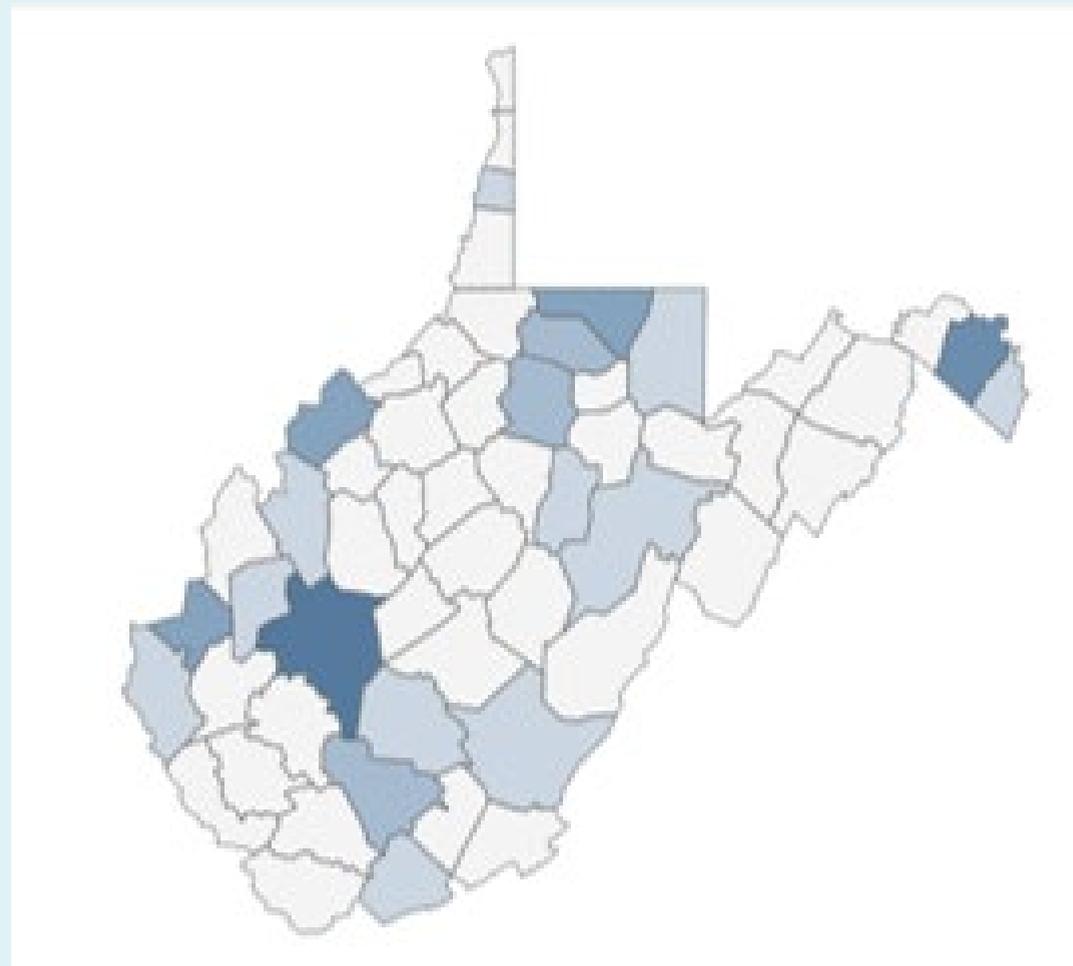
ChildVaxView Interactive!



Tools for Monitoring Coverage Rates

West Virginia Vaccination Coverage Interactive Dashboard – Coming Summer 2025!
Developed by the West Virginia Department of Health for improved accessibility

- Published online and viewable by anyone
- Coverage rate data can be sorted and filtered by vaccine series, year of vaccine, and age groups
- Coverage can be viewed down to the county level or as a statewide “heat map”



WV Vaccination Coverage Dashboard

Vaccination Year
2025

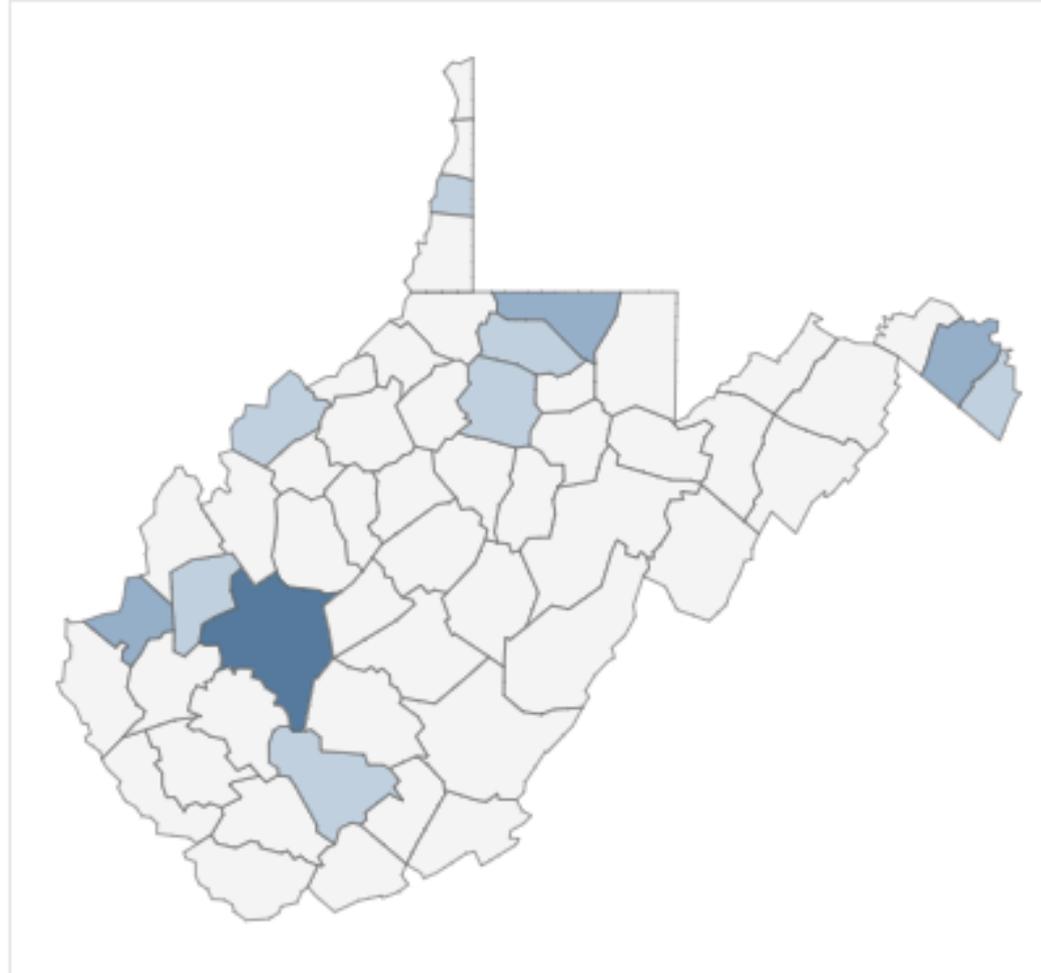
Current Age
(All)

County of Residence
(All)

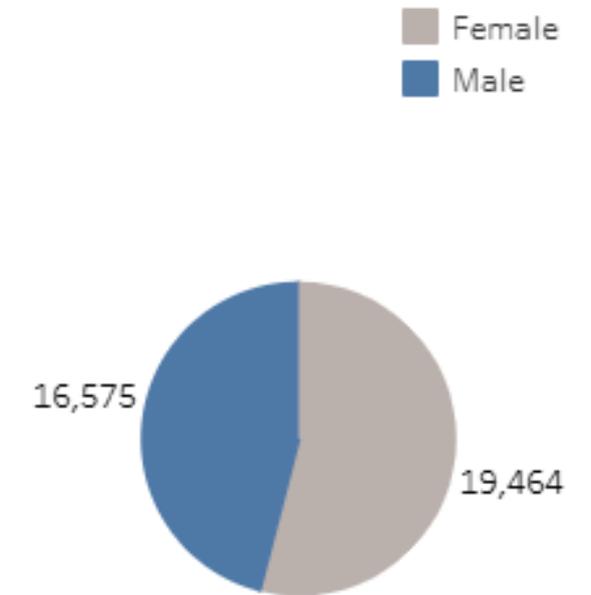
Vaccine Family
Influenza

Vaccination Series
Fully Vaccinated

Vaccination Season
Influenza Season 2024 - 2025



Doses Administered by Gender



	< 1 year old	1-2 years old	3-5 years old	6-12 years old	13-18 years old	19-29 years old	30-39 years old	40-49 years old	50-59 years old	60-69 years old	70-79 years old	80+ years old
Number of People Vaccinated	1,149	1,845	897	2,362	2,403	3,083	2,356	2,998	4,170	6,305	5,466	2,164
Doses Administered	1,688	2,023	920	2,375	2,411	3,094	2,368	3,021	4,190	6,343	5,500	2,174
Percentage	3.27%	5.24%	2.55%	6.71%	6.83%	8.76%	6.70%	8.52%	11.85%	17.92%	15.54%	6.15%
Rate per 1,000	0.65	1.04	0.52	1.32	1.35	1.73	1.32	1.68	2.34	3.53	3.06	1.21

WV Vaccination Coverage Dashboard

Vaccination Year
(All) ▼

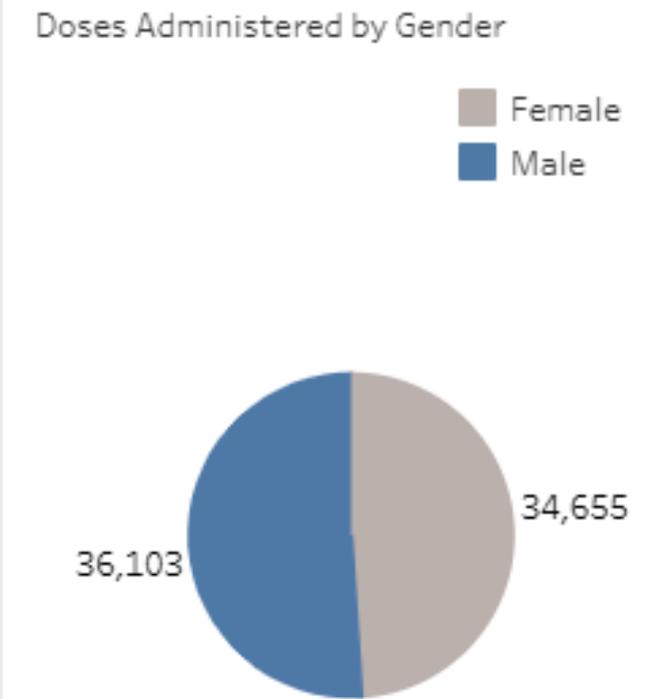
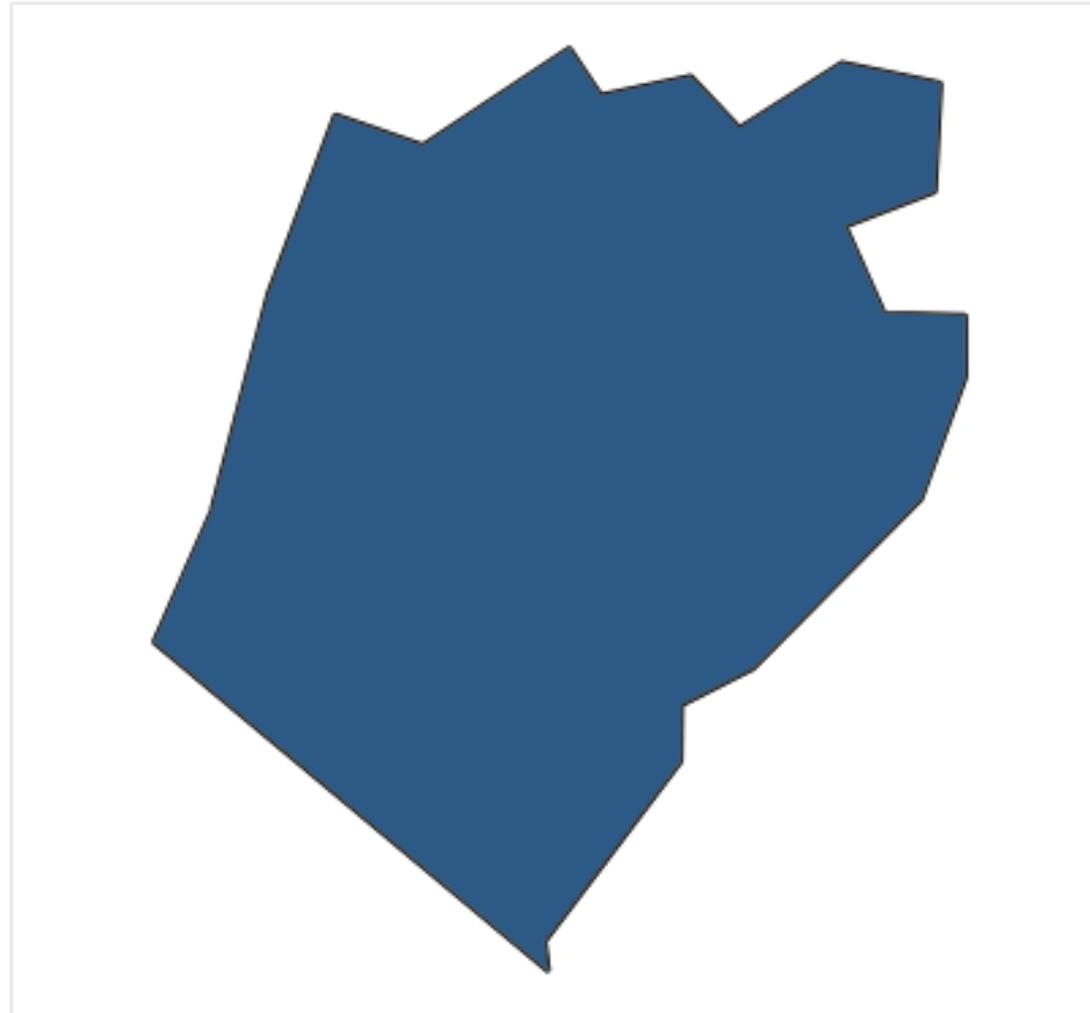
Current Age
(Multiple values) ▼

County of Residence
Berkeley ▼

Vaccine Family
DTaP/Tdap/Td ▼

Vaccination Series
Fully Vaccinated ▼

Vaccination Season
(All) ▼



< 1 year old 1-2 years old 3-5 years old 6-12 years old 13-18 years old 19-29 years old

Number of People Vaccinated	2,838	499	17,431	9,630	1,304	81
Doses Administered	2,857	517	32,915	31,797	3,420	168
Percentage	13.04%	2.29%	80.12%	44.26%	5.99%	0.37%
Rate per 1,000	23.24	4.09	142.73	78.85	10.68	0.66

WV Vaccination Coverage Dashboard

Vaccination Year
(All) ▼

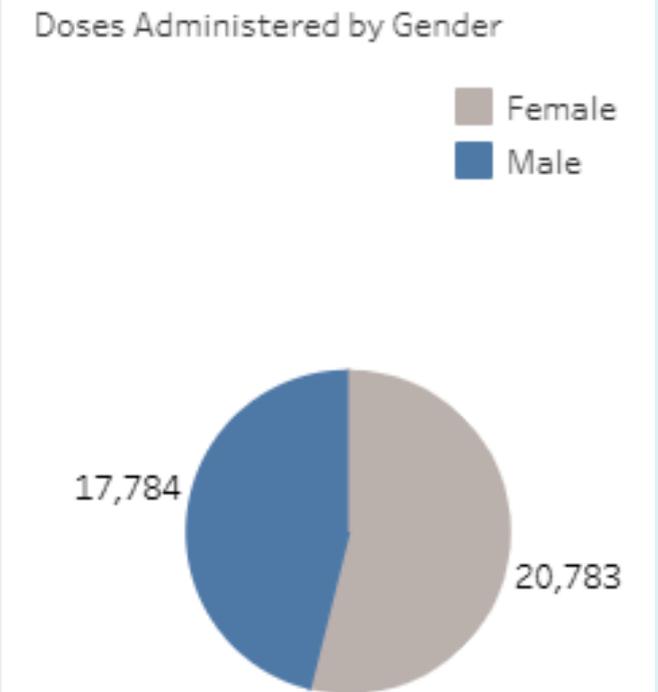
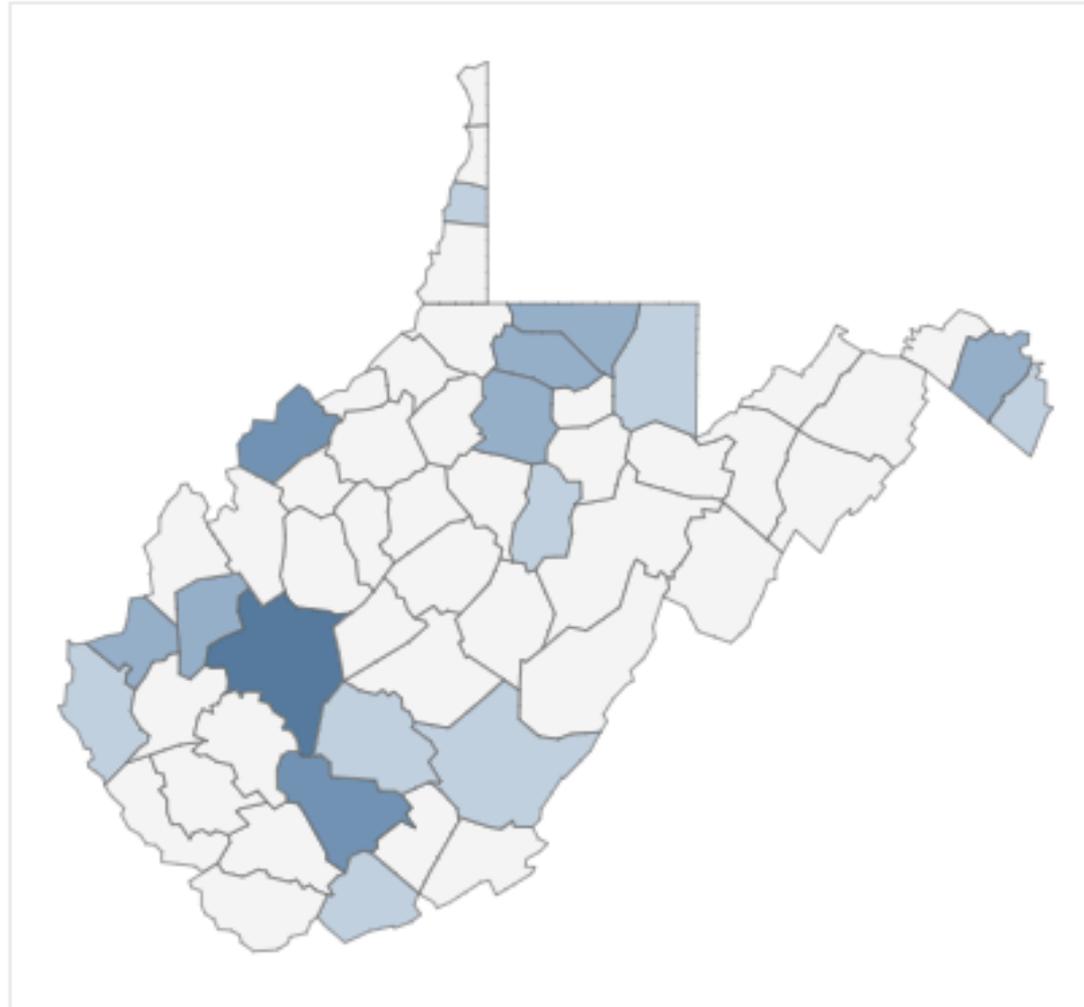
Current Age
(All) ▼

County of Residence
(All) ▼

Vaccine Family
HPV ▼

Vaccination Series
Fully Vaccinated ▼

Vaccination Season
▼



6-12 years old 13-18 years old 19-29 years old 30-39 years old 40-49 years old

Number of People Vaccinated	24,881	12,689	67	11	5
Doses Administered	25,480	13,358	73	11	5
Percentage	67.07%	34.21%	0.18%	0.03%	0.01%
Rate per 1,000	13.94	7.11	0.06	0.02	0.01

Keeping the Tools Useful: A Team Effort

**All the tools we have for monitoring immunization coverage depend on one thing—
IIS Data Quality**

Back to Basics: What is the goal of the IIS?

From CDC Functional Standards for Immunization Registries: “The IIS should be a robust system that supports the generation and utilization of data through various channels and formats, aligns with federal and jurisdictional vaccine program requirements, and strengthens response efforts for vaccine-preventable disease outbreaks and other public health emergencies.”

“Garbage in → Garbage out”

Complete, comprehensive reporting in the IIS, combined with proper data management, allows the system to be Useful and trustworthy for public health professionals, healthcare workers, and the public.



What is WVDH doing to improve WVSIS data?

Routine data cleaning

Daily manual de-duplication of patient profiles/records

Outreach to providers who slow or stop adding records

“Comparing and Sharing” WVSIS Coverage Rate reports vs facility estimates

WVSIS School Nurse Module

Capture records for vaccines either missing from SIS or administered outside of WV

How healthcare provider staff can help

EHR Connectivity

Establishing automatic transmission of records from the facility's electronic health record

- WVSIS staff work with the facility representative and the EHR vendor to establish and test the connection
- Vaccine administration documented in the patient chart will be reflected in WVSIS without manual data entry, and new patients are created in WVSIS automatically
- Daily error reports sent to the connected facility will list records that were incomplete or not transmitted and why

Facilities that are already connected should verify that error reports are being received or contact ISD for assistance.

How healthcare provider staff can help

Communicate facility changes to the WVSIS team

- New staff should complete the New User Enrollment form and obtain login credentials
- Staff who have left the facility should be inactivated
- Merges, new locations, closures, and facility name changes

Managing patient record ownership

Ownership is what associates a patient with a facility in SIS

- Especially important for accuracy of facility coverage rate reports
- Providers should routinely check the “status” of patients with records owned by the facility, and that they are correctly marked as “active”, “inactive”, or “deceased.”

How healthcare provider staff can help

Reviewing/Submitting complete demographic data

- All fields in the patient demographic screen/profile
- Baby names when birth doses are administered

School Nurses

- Checking rosters in the School Nurse Module for accuracy
- Adding records obtained from parents/other sources that are not in WVSIS

MY IR

- Allows individuals and parents to access their WV immunization records
- Reduces administrative burden on healthcare staff
- Relies on records in WVSIIIS



MyIR Mobile

National Reports

A robust and effective immunization registry in every state gives an accurate picture of how the states compare.

WVSIIS Document Center

- Instructions, tutorials, and guidelines for all IIS functions

In-person or virtual training

- WVSIIS staff can meet with new or existing users to train and troubleshoot

WVSIIS staff technical support available today in the vendor area

Referenced links

- <https://www.cdc.gov/vaccines/data-reporting/index.html>
- <https://myirmobile.com/>
- <https://www.cdc.gov/iis/functional-standards/introduction.html>