

SCHOOL IMMUNIZATION REPORT

2024-2025

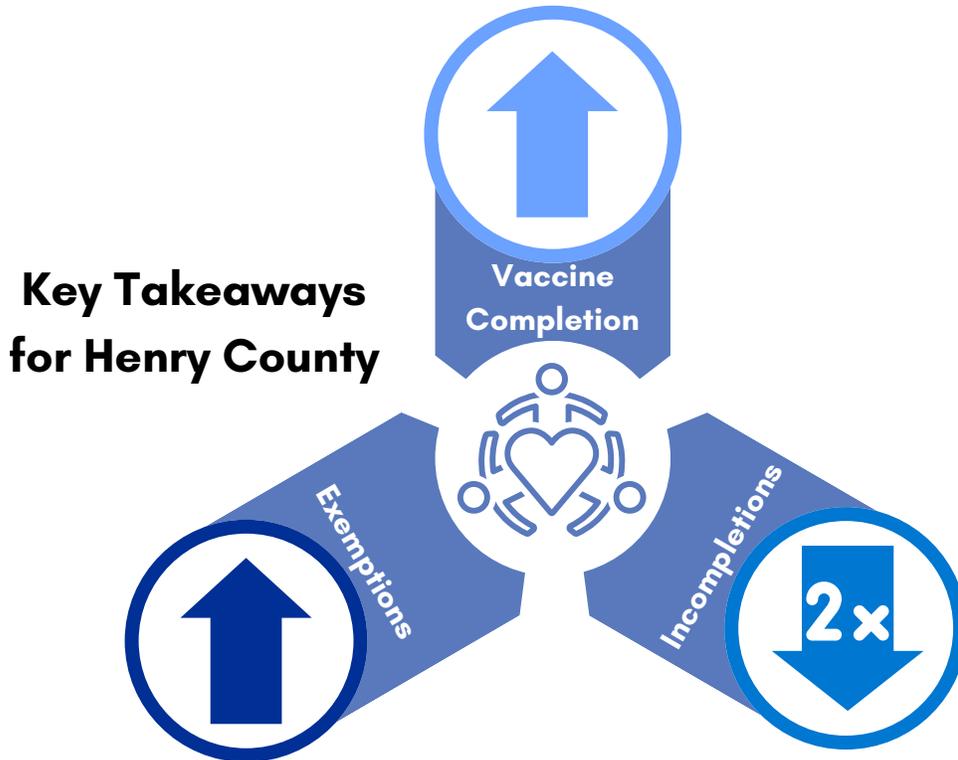


**HENRY
COUNTY
HEALTH
DEPARTMENT**

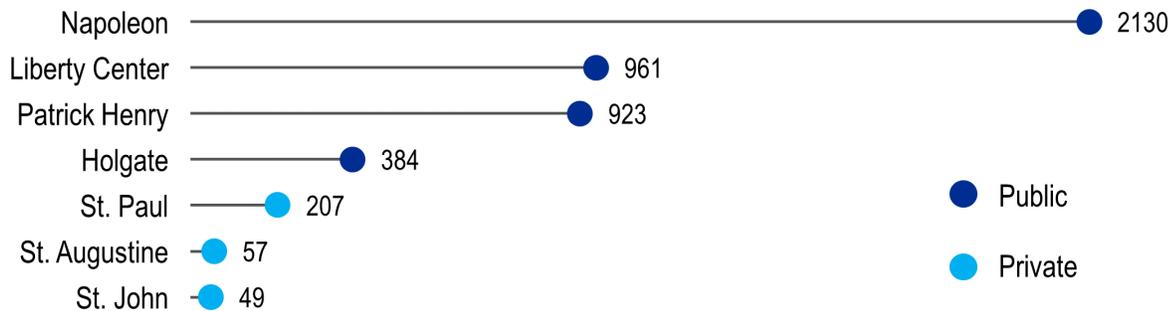
Introduction

This report presents an overview of immunization data for the 2024–2025 school year in Henry County, Ohio. Data included in this report focuses on students in kindergarten, 7th grade, and 12th grade from the following schools: **Holgate Local**, **Liberty Center Local**, **Napoleon Area City**, **Patrick Henry Local**, **St. Augustine**, **St. John**, and **St. Paul Lutheran**. In order to ensure the privacy of all Henry County students, the data from all four public school districts and all three private schools has been combined. This will make it so **Henry County** can be compared to both the **Northwest region of Ohio** and the **state of Ohio**. Trends will be identified by comparing these three areas between the 23–24 and 24–25 school years.

The purpose of this report is to provide an update on the immunization status of school-aged children in Henry County. This will be done by determining the level of protection against vaccine-preventable diseases, providing implications of vaccine coverage rates, and identifying areas for improvement and partnership.



Henry County 2024–2025 School Enrollment



Note: All public schools include grades K–12. All private schools include grades K–8.

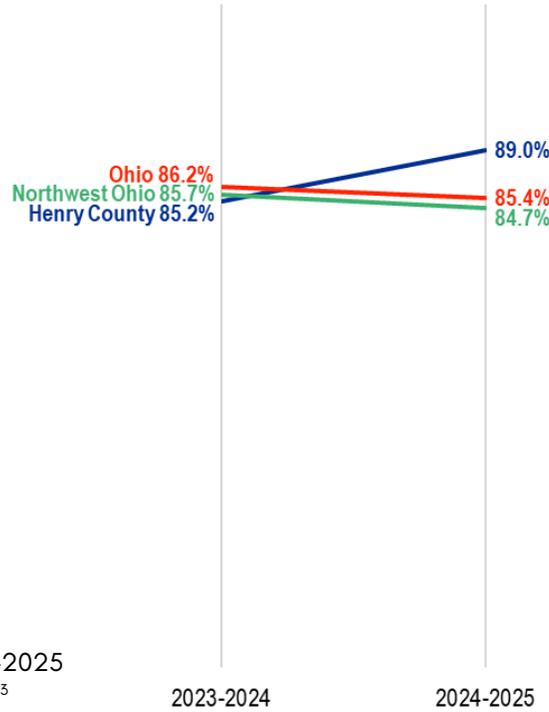
Data source: Reported from each school October 2024¹.

As of October 2024, a total of 4,711 students were enrolled in Henry County schools. Out of these 4,711 students, 4,398 or 93.4% attended a public school.

Kindergarten

Henry County kindergarten had a major increase in vaccine completions in 2024

Data source: 2023-2024 and 2024-2025 Ohio Immunization Summary Reports^{2,5}



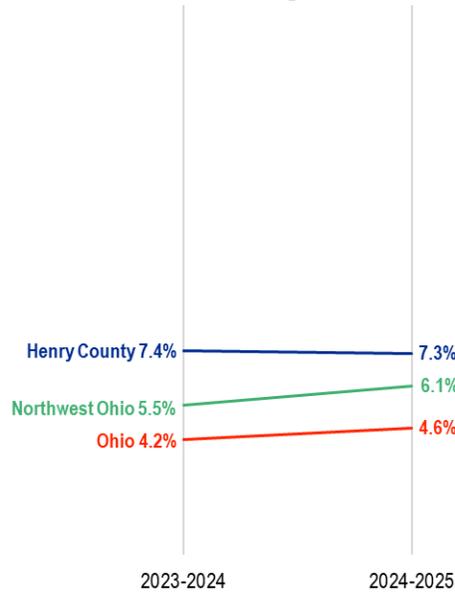
Vaccine Completion

Between the 23-24 school year and 24-25 school year, Henry County kindergarten had a 3.8% increase in completion percentage of the required kindergarten immunizations. While Henry County saw an increase over this time, both the state of Ohio and the Northwest region of Ohio dropped by about 1%.

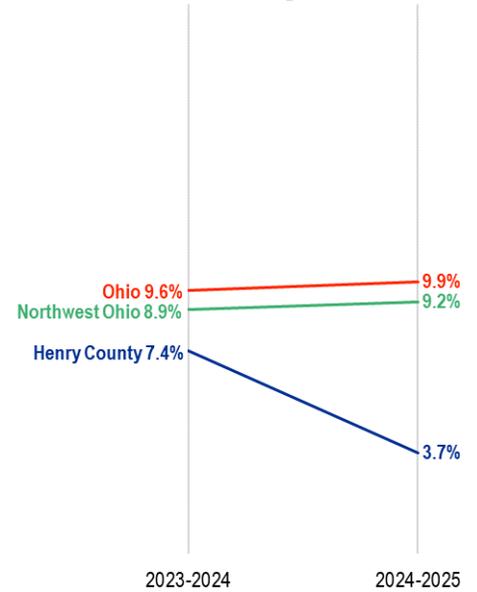
A large contributor to the rise in kindergarten completions in Henry County was the significant decline in vaccine incompletions for the 24-25 school year. Incompletions were cut in half going from 7.4% to 3.7%. In addition to the drop in incompletions, exemptions dropped by 0.1% but remained higher than the Northwest region and the state.

The drop in completion percentage observed for both Ohio and the Northwest region of Ohio can be explained by the increase in both exemptions and incompletions since last school year.

Exemptions

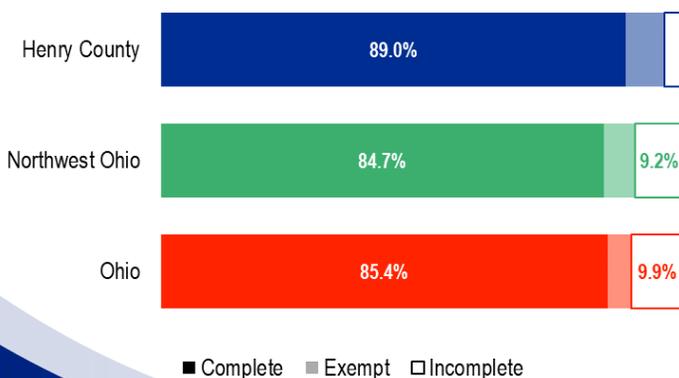


Incompletions



Data source: 2023-2024 and 2024-2025 Ohio Immunization Summary Reports^{2,5}

Henry County had an incompletion percentage much lower than the **state** or **region**



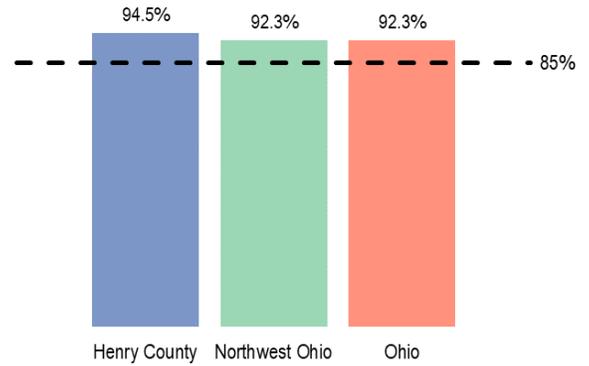
The bar graph to the left displays the vaccine completion, exemption, and incompletion percentage for Henry County, Northwest Ohio, and Ohio kindergartens for the 24-25 school year. While Henry County has the highest completion percentage of the 3 bars, it also has the highest exemption percentage. Henry County was significantly different from the other two bars when looking at the incompletion percentage. Both Northwest Ohio and Ohio had an incompletion percentage greater than 9%.

Data source: 2024-2025 Ohio Immunization Summary Report³

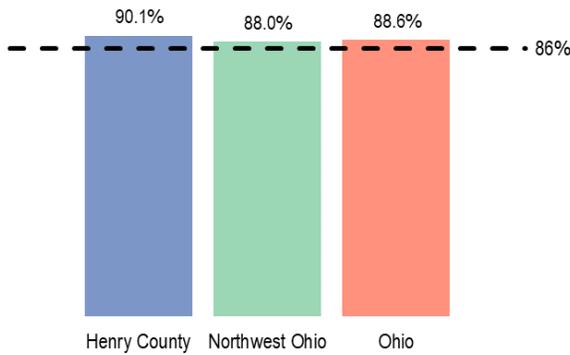
Vaccine Specific Completion

Of the 5 required kindergarten immunizations (Hepatitis B⁴, Polio⁵, MMR⁶, Varicella⁵, and DTaP⁵), both the Polio vaccine and Hepatitis B had all three groups (Henry County, Northwest Ohio, and Ohio) above the herd immunity threshold for the 24-25 school year. The remaining three vaccines (MMR, Varicella, and DTaP) did not see any of these groups above the herd immunity threshold. Even though herd immunity wasn't achieved for the last three vaccines, all three groups were within 1-3% of each other.

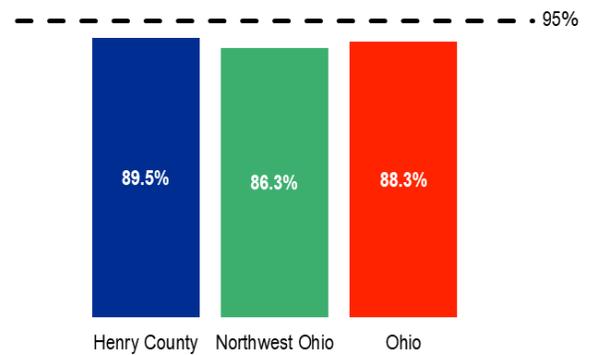
Hepatitis B



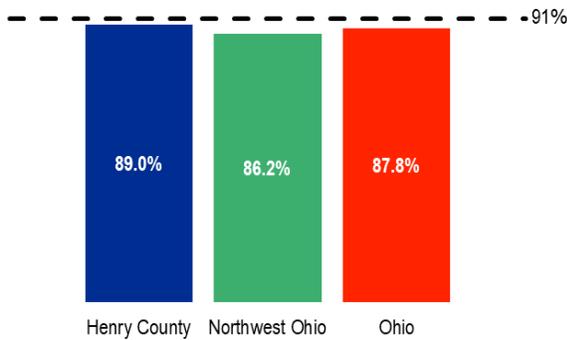
Polio



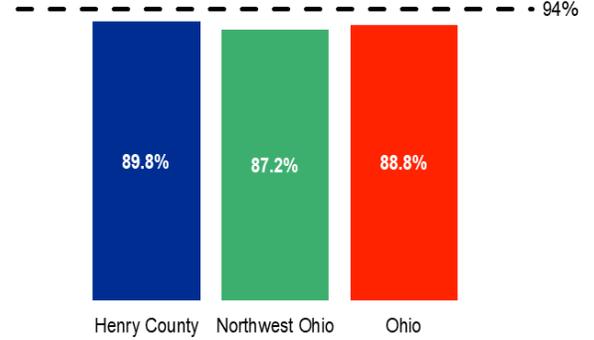
MMR



Varicella



DTaP



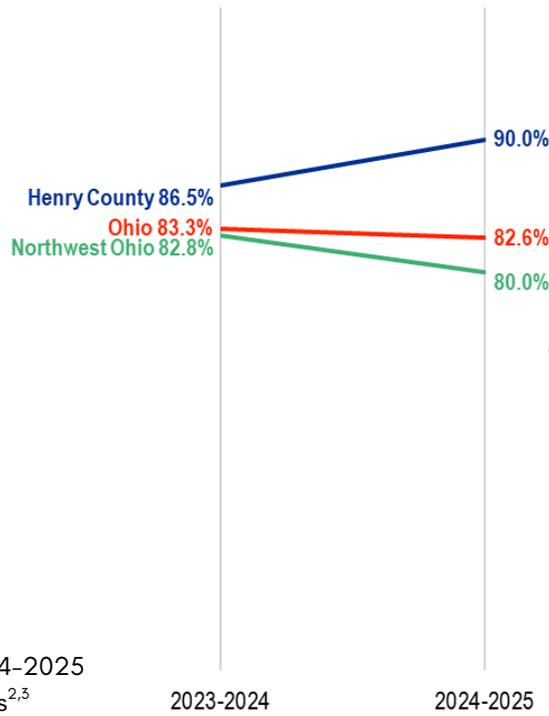
-----Herd Immunity

Data source: 2024-2025 Ohio Immunization Summary Report³

7th Grade

Henry County 7th Grade had a major increase in vaccine completions in 2024

Data source: 2023-2024 and 2024-2025 Ohio Immunization Summary Reports^{2,5}

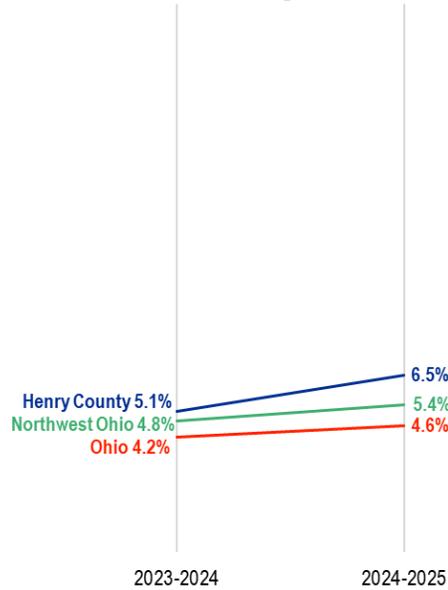


Vaccine Completion

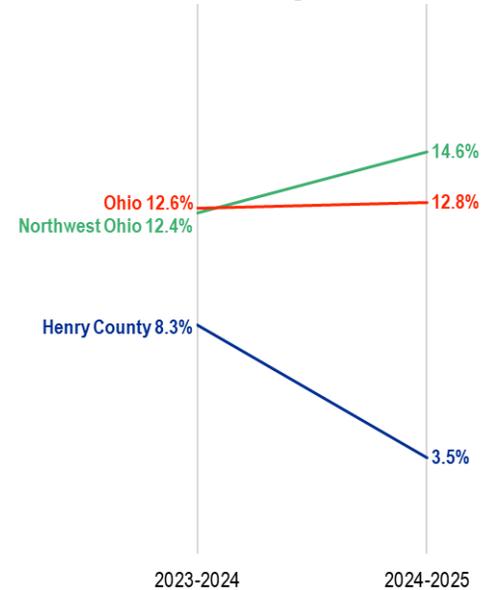
Similar to kindergarten vaccine completions, 7th grade observed similar trends between the 23-24 and 24-25 school year. Henry County had a 3.5% increase in completion percentage of the 7th grade immunizations recorded (MMR, Tdap, Hepatitis B, and MCV). While Henry County saw an increase over this time, both the state of Ohio and the Northwest region of Ohio dropped by 0.7% and 2.8% respectively.

The gains in completion percentage can be better understood when looking at exemptions and incompletions over this time. These trends also reflect what was observed with kindergartens. Henry County exemptions were higher than both comparison groups and incompletions were lower and dropped significantly. The only differences with this are that exemptions for Henry County saw a 1.4% jump and Northwest Ohio incompletions jumped up 2.2%.

Exemptions



Incompletions



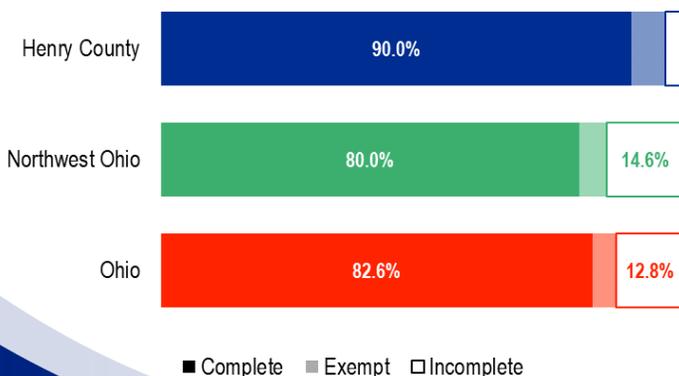
Data source: 2023-2024 and 2024-2025 Ohio Immunization Summary Reports^{2,5}

Henry County 7th grade had an incompleteness percentage over 3x lower than the **state**

The decline in incompletions is apparent when looking at the graph to the left. Henry County had an incompleteness percentage 3.6x lower than the state. This appears to be a strength for Henry County while the region and state are struggling with much greater 7th grade incompletions at 14.6% and 12.8% respectively.

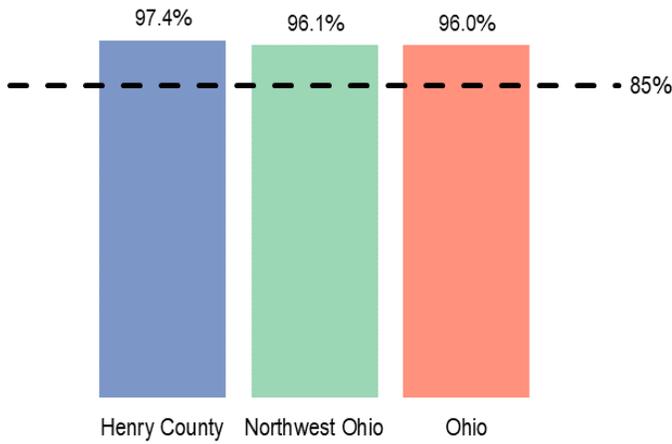
As a result of elevated incompletions, both Ohio and the Northwest region have a lower overall completion percentage when compared to Henry County.

Data source: 2024-2025 Ohio Immunization Summary Report³

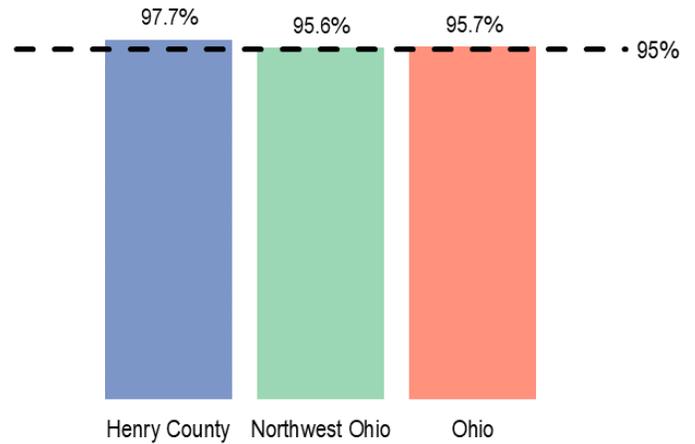


Vaccine Specific Completion

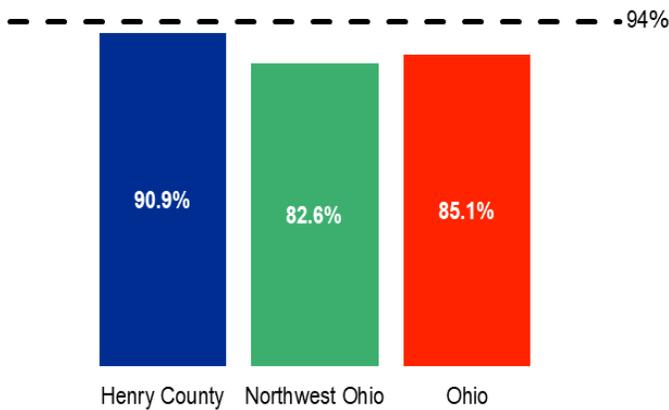
Hepatitis B



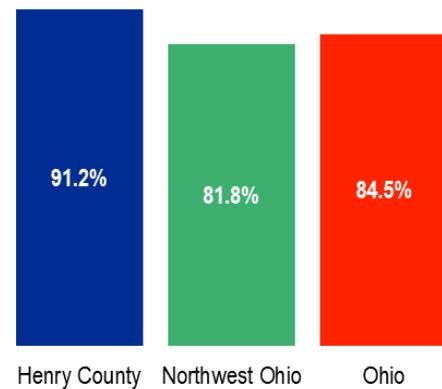
MMR



Tdap



MCV4



----- Herd Immunity

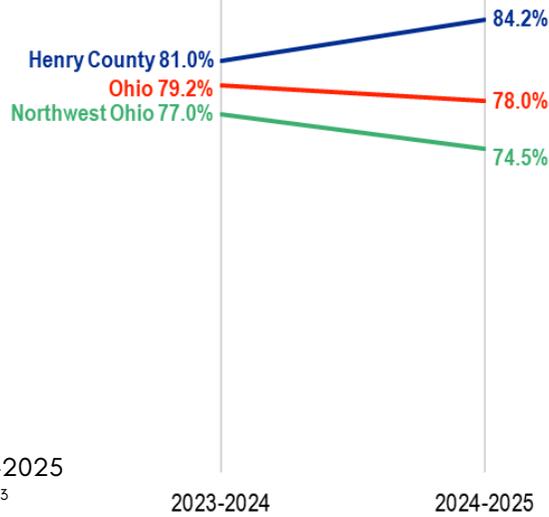
Data source: 2024-2025 Ohio Immunization Summary Report³

Of the 4 immunizations recorded for 7th graders in Ohio (Hepatitis B⁴, MMR⁶, Tdap⁵, and MCV4) both the Hepatitis B and MMR vaccine had all three groups (Henry County, Northwest Ohio, and Ohio) above the herd immunity threshold for the 24-25 school year. Meanwhile, Tdap fell below the herd immunity threshold for all three groups. The MCV4 vaccine is unique in that meningococcal disease does not have an established herd immunity threshold. When looking at completion percentages for Tdap and MCV4 each group was very similar for both vaccines, many within 1% of the other.

MMR being above the herd immunity threshold for all 7th grade groups but none of the kindergarten groups may provide some insight into perception of this vaccine across the state. The second MMR dose of the two dose series is recommended between the ages of 4-6, while most children begin kindergarten at the age of 5 in Ohio. This suggests that between kindergarten and 7th grade children are receiving their 2nd MMR dose at rates above the herd immunity threshold of 95%.

12th Grade

Henry County had an increase in MCV4 completion, while both the **state** and **region** dropped



Vaccine Completion

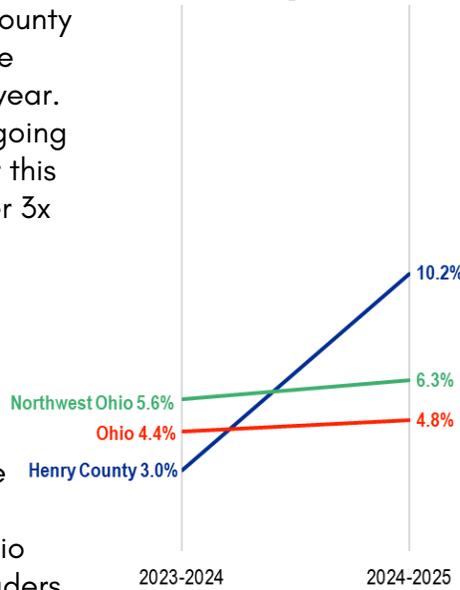
Between the 23-24 school year and 24-25 school year, Henry County 12th grade had a 3.2% increase in completion percentage of the MCV4 vaccine. While Henry County saw an increase over this time, both the state of Ohio and the Northwest region of Ohio dropped. Ohio dropped by 1.2% while the northwest region dropped by 2.5%.

Data source: 2023-2024 and 2024-2025 Ohio Immunization Summary Reports^{2,5}

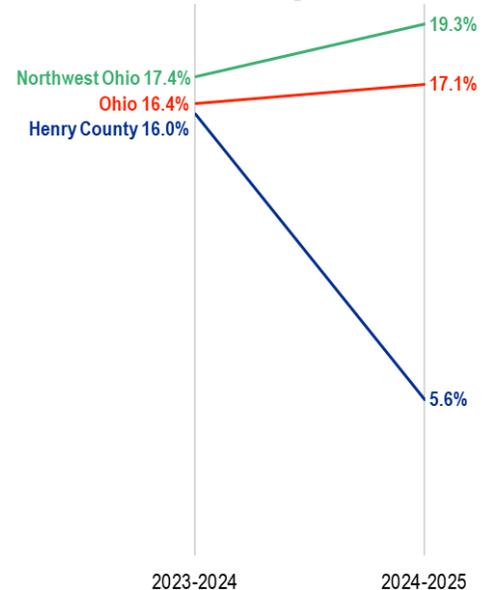
A large contributor to the rise in kindergarten completions in Henry County was the significant decline in vaccine incompletions for the 24-25 school year. Incompletions nearly had a 3x drop going from 16% to 5.6%. Unfortunately over this same time, Henry County had an over 3x increase in their exemptions for the

The drop in completion percentage observed for both Ohio and the Northwest region of Ohio can be explained by the increase in both exemptions and incompletions. While exemptions hovered around 5-6%, incompletions represent 17.1% for Ohio and 19.3% of Northwest Ohio 12th graders.

Exemptions

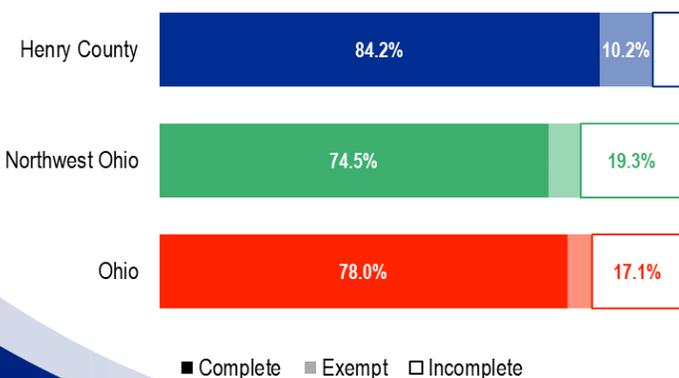


Incompletions



Data source: 2023-2024 and 2024-2025 Ohio Immunization Summary Reports^{2,5}

Henry County had a higher percentage of 12th grade exemptions than the **state** and the **region**



The bar graph to the left displays the vaccine completion, exemption, and incompleteness percentage for Henry County, Northwest Ohio, and Ohio 12th grade for the 24-25 school year. While Henry County has the highest completion percentage by over 6%, it also has the highest exemption percentage at 10.2%. Henry County was significantly different from the other two bars when looking at the incompleteness percentage. Both Northwest Ohio and Ohio had an incompleteness percentage greater than 17%.

Data source: 2024-2025 Ohio Immunization Summary Report³

Conclusion

This report gives us valuable information about student vaccinations in [Henry County](#), [Northwest Ohio](#), and [Ohio](#) schools for the 2024–2025 school year. It is important to note that the **Henry County vaccine completion percentage increased for all three grade levels**. This means that the work being done is having a positive impact.

Here's a summary of the key findings and what they mean for our schools:

- **Overall Increase in Henry County Vaccine Completion Percentage:** The Henry County vaccine completion percentage increased by over 3% for all three grade levels. The county vaccine completion percentage increased by 3.8% for kindergarten, 3.5% for 7th grade, and 3.2% for 12th grade.
- **Significant Decline in Incompletions:** Incompletions were reduced across all three grade levels in Henry County. For kindergarten and 7th grade, incompletions were cut in half, going from 7.4% to 3.7% and 8.3% to 3.5% respectively. For 12th grade, incompletions dropped by 3x which was over a 10% drop in the percentage of 12th graders with an incomplete status.
- **Herd Immunity Achievement: Henry County, Northwest Ohio, and Ohio** kindergartens as a whole achieved herd immunity for both the Hepatitis B and Polio vaccines for the 2024–2025 school year. Additionally, for 7th grade these three groups achieved herd immunity for the Hepatitis B and MMR vaccines for the 2024–2025 school year.
- **Increase in Exemptions:** Across the state, exemptions increased since last school year for all three grade levels. While Henry County kindergarten did see a slight drop in exemptions, Henry County 12th grade had a massive increase going from 3.0% to 10.2%.

What We Need to Do

These findings indicate that our efforts are yielding positive results, as evidenced by increased completion percentages and decreased incompletions across all three grade levels. However, the rise in exemptions requires a strategic and nuanced approach. Here are key steps we can take:

- **Strengthen Exemption Counseling:** Given the increase in vaccine exemptions, it is crucial to enhance our counseling efforts. We should provide evidence-based information to parents, addressing their concerns and ensuring they understand the risks and benefits of vaccination. This can be achieved through targeted communication, one-on-one consultations, and community forums.
- **Highlight Positive Trends:** It is important to communicate the successes highlighted in this report to the community. Showcasing the increased vaccination rates and herd immunity achievements can reinforce the benefits of vaccination and encourage more parents to immunize their children.
- **Address Specific School Needs:** While county completion percentages have improved, some schools still lag behind in achieving herd immunity. We should tailor our interventions to address specific needs and challenges of each school, providing targeted support and resources where they are needed most.
- **Community Engagement:** Engage community leaders, parent groups, and healthcare providers to promote vaccination as a shared responsibility. By fostering a culture of collaboration and mutual support, we can create a more pro-vaccine environment in Henry County.

By building on our successes and addressing the challenges posed by vaccine exemptions, we can further improve vaccination rates and protect the health of all students in Henry County. A healthy school community is essential for student success.

Sources

1. 2024-2025 Henry County School Absence Data
2. 2023-2024 Ohio Department of Health School Immunization Data
3. 2024-2025 Ohio Department of Health School Immunization Data
4. Khan T, Zaman G, Chohan MI. The transmission dynamic and optimal control of acute and chronic hepatitis B. *J Biol Dyn.* 2017 Dec;11(1):172-189.
5. Plans-Rubió, P. (2012). Evaluation of the establishment of herd immunity in the population by means of serological surveys and vaccination coverage. *Human Vaccines & Immunotherapeutics*, 8(2), 184-188. <https://doi.org/10.4161/hv.18444>
6. van Boven, Michiel et al. "Estimation of measles vaccine efficacy and critical vaccination coverage in a highly vaccinated population." *Journal of the Royal Society, Interface* vol. 7,52 (2010): 1537-44. doi:10.1098/rsif.2010.0086