



**HAMILTON COUNTY  
PUBLIC HEALTH**  
PREVENT. PROMOTE. PROTECT.



# **Region 8 Syphilis Quarterly Report**

## **2025 1st Quarter**



**Hamilton County Public Health  
Division of Epidemiology and Assessment**

250 William Howard Taft Road  
Cincinnati, Ohio 45219  
513.946.7800

[www.hamiltoncountyhealth.org](http://www.hamiltoncountyhealth.org)

**Date Reported: June 2025**

### Syphilis Surveillance Background

Hamilton County Public Health conducts syphilis surveillance and mitigation in seven counties (Brown, Butler, Clermont, Clinton, Hamilton, Highland, and Warren) known as Region 8. This quarterly report was created as a surveillance effort to track and prevent new cases of syphilis within Region 8 counties and provide a basis for syphilis prevention efforts. When a person is determined to have a new syphilis infection in Region 8, disease intervention specialists from Hamilton County Public Health attempt to contact that person and offer partner services (e.g., patient interview, contact tracing, partner testing, and linkage to treatment). Only new cases of syphilis were counted for analysis purposes in this report. Some syphilis cases are unable to be located for an interview, which may impact data collection. The following report features total new syphilis counts, demographic data, and risk factor data for Region 8 counties from 2021 through the 1st quarter of 2025.

The purpose of collecting and distributing demographic and risk factor data is to inform programming, community partners, and stakeholders so the best effort can be made to diagnose, prevent, and treat syphilis infections in our community. These data can provide a snapshot of syphilis surveillance in the region, but do not always tell the entire story. To fully understand the situation, community voices, stakeholders, and other sources should be considered.

Syphilis cases for this report are newly diagnosed infections which can include first time infections or re-infections.

These data are provisional and subject to change as there is a lag time in reporting and cases may be added or removed. Ohio Department of Health specifically disclaims responsibility for analyses, interpretations, or conclusions.

Data downloaded from Ohio Disease Reporting System (ODRS) on 05/28/2025.

**For HIV or other STI testing information please call the HCPH Clinic at 513-946-7610**

**Email [HCPH.ID@HAMILTON-CO.ORG](mailto:HCPH.ID@HAMILTON-CO.ORG) with any questions regarding this report.**

### Stages of Syphilis

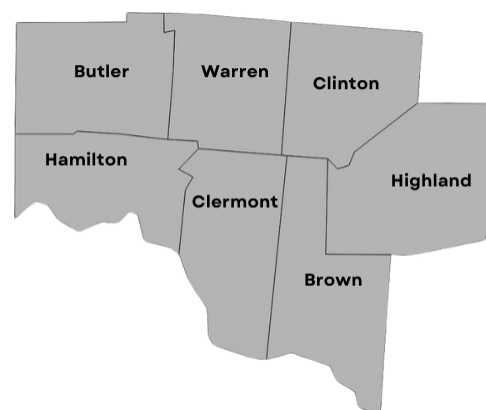
Syphilis infections are categorized into different stages based on the clinical presentation of disease and duration of infection.

**Congenital Syphilis:** This stage includes, but is not limited to, when syphilis is transferred from mother to infant during pregnancy or delivery, or when the mother of a child had untreated/inadequately treated syphilis at delivery regardless of signs in the infant.

**Early Syphilis:** This stage is when a person has been infected for less than a year. The stages include Early Latent (no signs or symptoms, but infected for less than a year), Primary (symptoms include a painless sore, called a chancre), and Secondary (symptoms include, but is not limited to, a rash on hands and feet). In particular, primary and secondary infections are considered highly infectious stages.

**Late Latent:** This stage is when a person has been infected for longer than a year. During this stage, the patient may no longer be infectious, and have no symptoms; however if the patient does not receive appropriate treatment the disease could develop into neurological problems, possibly leading to death. Syphilis cases staged as “unknown duration” are grouped together with “late syphilis” for the purposes of surveillance.

### Region 8 Map



# Syphilis Quarterly Report: Region 8

## Overview of Syphilis in Region 8

**Table 1. Region 8 Total Syphilis by Year**

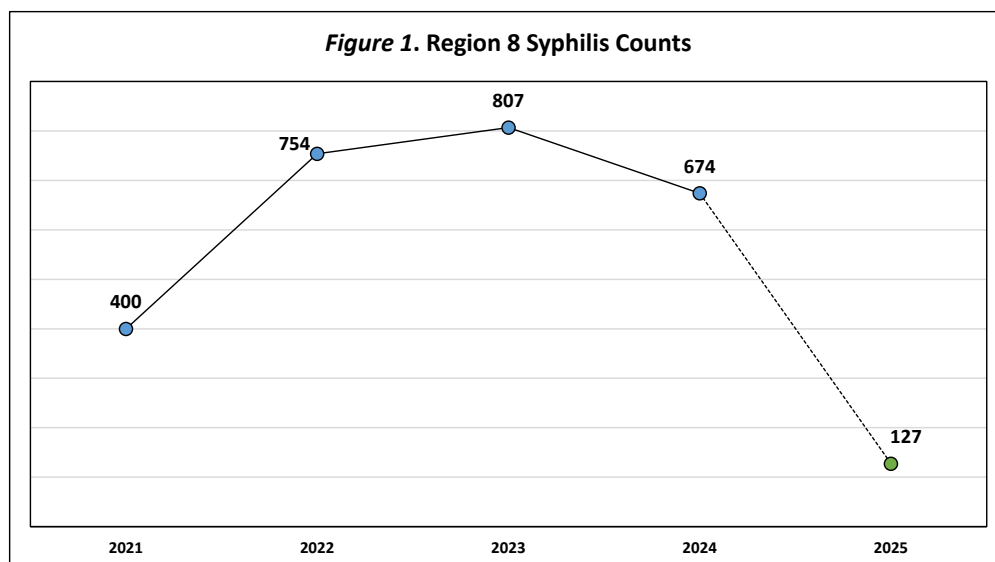
2021	2022	2023	2024	2025
400	754	807	674	127*

\*Q1 Only

**Table 1** shows total new syphilis cases in Region 8 from 2021 through the 1st quarter of 2025. The most recent data are highlighted in light green.

**Figure 1** is a line graph of syphilis cases from 2021 through the 1st quarter of 2025. The dotted line signifies that 2025 data is not yet complete.

**Figure 1. Region 8 Syphilis Counts**



**Table 2** is a comparison of the 1st quarters (Q1) of 2024 and 2025. There were **29.8% fewer** new syphilis cases in Q1 2025 compared to 2024 during this time period.

**Table 2. Region 8 Q1 Comparisons**

2024	2025	% Change
181	127	-29.8%↓

**Table 3** displays the breakdown of new syphilis cases for Region 8 from 2024 through the 1st quarter by month. In 2024 the highest number of cases was seen in August (67 cases). In 2025, the highest number of syphilis cases have occurred in January (49 cases).

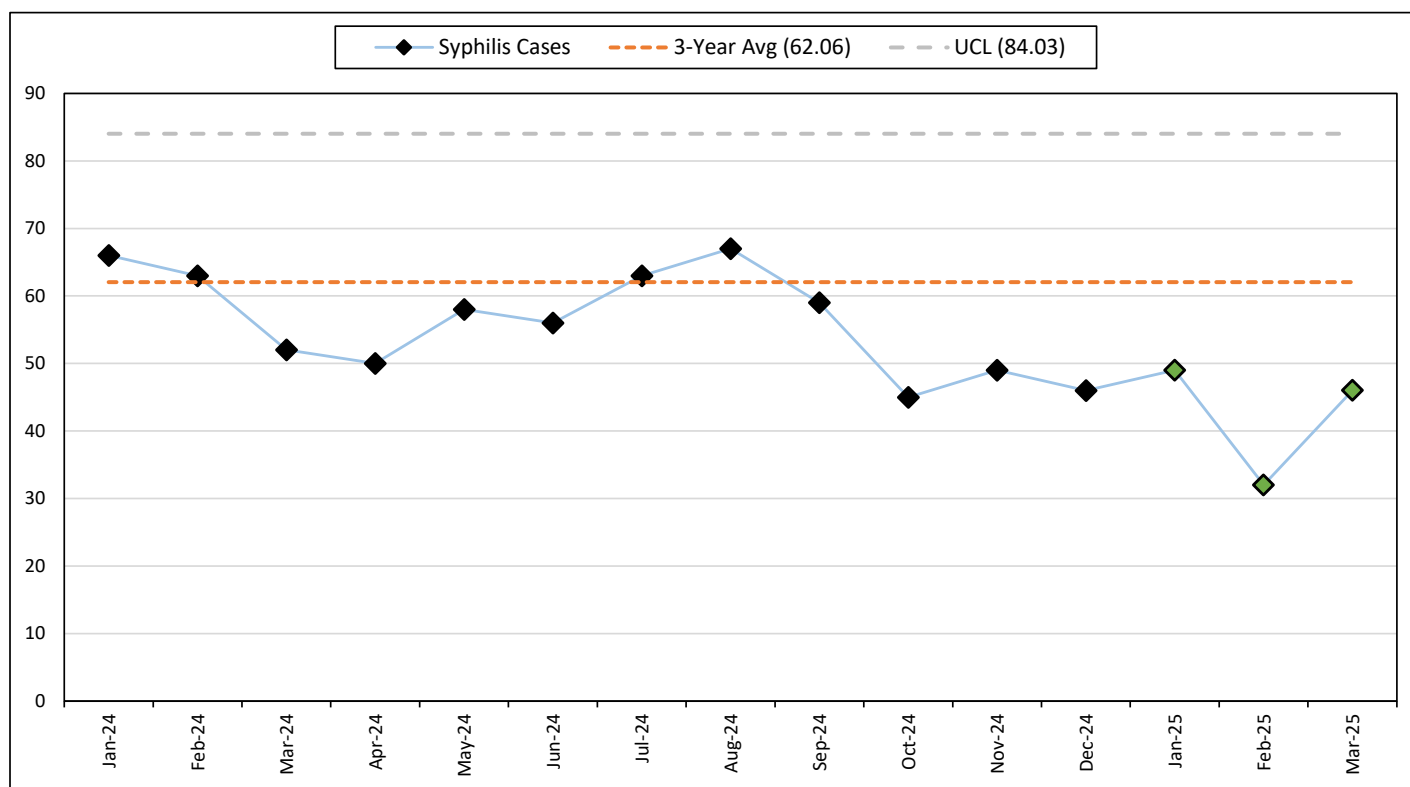
**Table 3. Region 8 Total Syphilis by Month**

Month	2024	2025
January	66	49
February	63	32
March	52	46
April	50	–
May	58	–
June	56	–
July	63	–
August	67	–
September	59	–
October	45	–
November	49	–
December	46	–
<b>Total</b>	<b>674</b>	<b>127</b>

**Figure 2** shows a surveillance control chart. The dashed orange line shows the average number of new syphilis cases per month for the past 3 years (2022, 2023, and 2024). The previous 3-year average is 62.06 new syphilis cases per month. The dashed gray line is the upper control limit (UCL) with a value of 84.03. A single point above or near the UCL may signal anomalies that need to be investigated. The diamonds on the blue line graph show the actual number of new syphilis infections by month. The green diamonds are the months from the most recent quarter.

**Analysis:** For Q1 2025, all months were **below** the 3-year average. Consecutive points above the average may signal anomalies that need to be investigated. All months in Q1 2025 have been **below** the UCL which indicates no anomalies related to the UCL for this time frame. When there are only a small number of cases, it may be difficult to distinguish random fluctuations in disease incidence from true changes in the underlying risk for the disease.

**Figure 2. Region 8 Syphilis Infection Control Chart**



The average is found using syphilis counts by month for the previous 3 years. A standard deviation is calculated using the same time frame. The upper control limit is determined by multiplying the standard deviation by 2 and adding the 3-year average.

## Syphilis Quarterly Report: Region 8

**Table 4** shows syphilis stages, demographics, and risk factor data in Region 8. The category showing the highest percentage of new syphilis cases is highlighted in **blue**. For Q1 2025 Male (61.5%), Black (45.7%), and 25-34 year old (34.6%) individuals made up the highest percentage of new syphilis cases. For risk factors, high risk heterosexual (HRH) had the highest percentage of new syphilis cases (51.2%). The “Unknown” risk factor category could be due to a disease intervention specialist not being able to determine the risk factors of the patient. See additional information below the table.

Table 4. Region 8 Syphilis Morbidity				
	2024		2025 Q1	
	#	%	#	%
<b>Syphilis Stages</b>				
Early Latent	161	23.9%	35	27.6%
Primary	74	11.0%	12	9.0%
Secondary	114	16.9%	18	14.2%
Late/Unknown	310	46.0%	60	47.2%
Congenital	15	2.2%	2	1.6%
<b>Gender</b>				
Male	455	67.5%	78	61.5%
Female	219	32.5%	49	38.5%
<b>Race</b>				
Black	333	49.4%	58	45.7%
White	285	42.3%	57	44.9%
Multi	5	0.7%	2	1.6%
Other	47	7.0%	10	7.9%
Unknown	4	0.6%	0	0.0%
<b>Age Group</b>				
<1	15	2.2%	2	1.6%
1-14	0	0.0%	0	0.0%
15-24	86	12.8%	13	10.2%
25-34	212	31.5%	44	34.6%
35-44	188	27.9%	38	29.9%
45-54	106	15.7%	21	16.5%
55-64	49	7.3%	6	4.7%
65+	18	2.7%	3	2.4%
<b>Risk Factor</b>				
MSM	182	27.0%	34	26.8%
HRH	238	35.3%	65	51.2%
PWID	42	6.2%	5	3.9%
Unknown	212	31.5%	23	18.1%

Percentages may not total to 100 due to rounding. Percentages are based on availability of data for all cases. MSM are men who have sex with men. High risk heterosexuals (HRH) are determined by factors including but not limited to: having a previous STI, sex while intoxicated, exchanging sex for drugs, or having anonymous sexual partners. PWID is a person who injects drugs. Early syphilis cases include early latent, primary, and secondary stages. Early syphilis cases are cases where a person has been infected for less than a year.

## Overview of Syphilis in Hamilton County

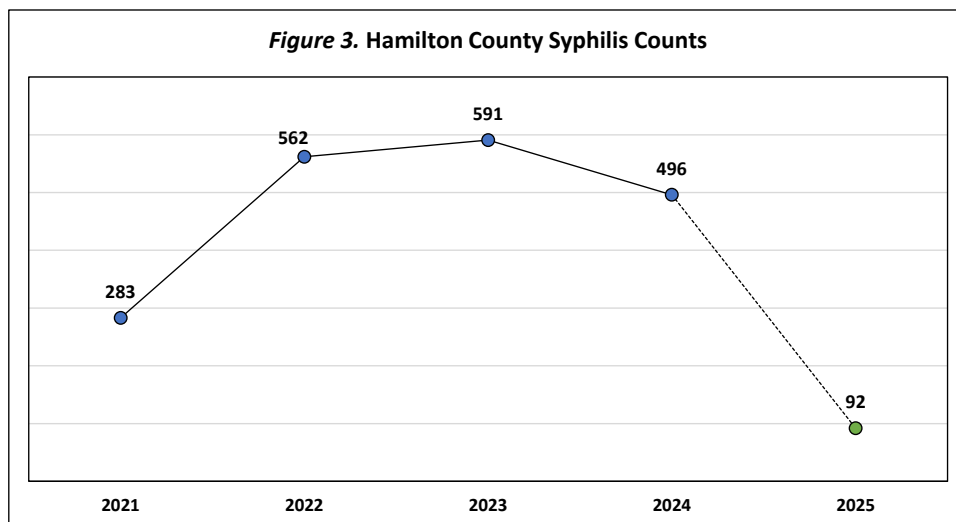
**Table 5. Hamilton County Total Syphilis by Year**

2021	2022	2023	2024	2025
283	562	591	496	92*

\*Q1 Only

**Table 5** shows total new syphilis cases in Hamilton County from 2021 through the 1st quarter of 2025. The most recent data are highlighted in light green.

**Figure 3** is a line graph of syphilis cases from 2021 through the 1st quarter of 2025. The dotted line signifies that 2025 data is not yet complete.



**Table 6** is a comparison of the 1st quarters (Q1) of 2024 and 2025. There were **29.8% fewer** new syphilis cases in Q1 2025 compared to 2024 during this time period.

Table 6. Hamilton County Q1 Comparisons		
2024	2025	% Change
131	92	-29.8%↓

**Table 7** displays the breakdown of new syphilis cases for Hamilton County from 2024 through the 1st quarter of 2025 by month. In 2024, the highest number of cases was seen in January (50 cases). In 2025, the highest number of syphilis cases have occurred in January (34 cases).

**Table 7. Hamilton County Total Syphilis by Month**

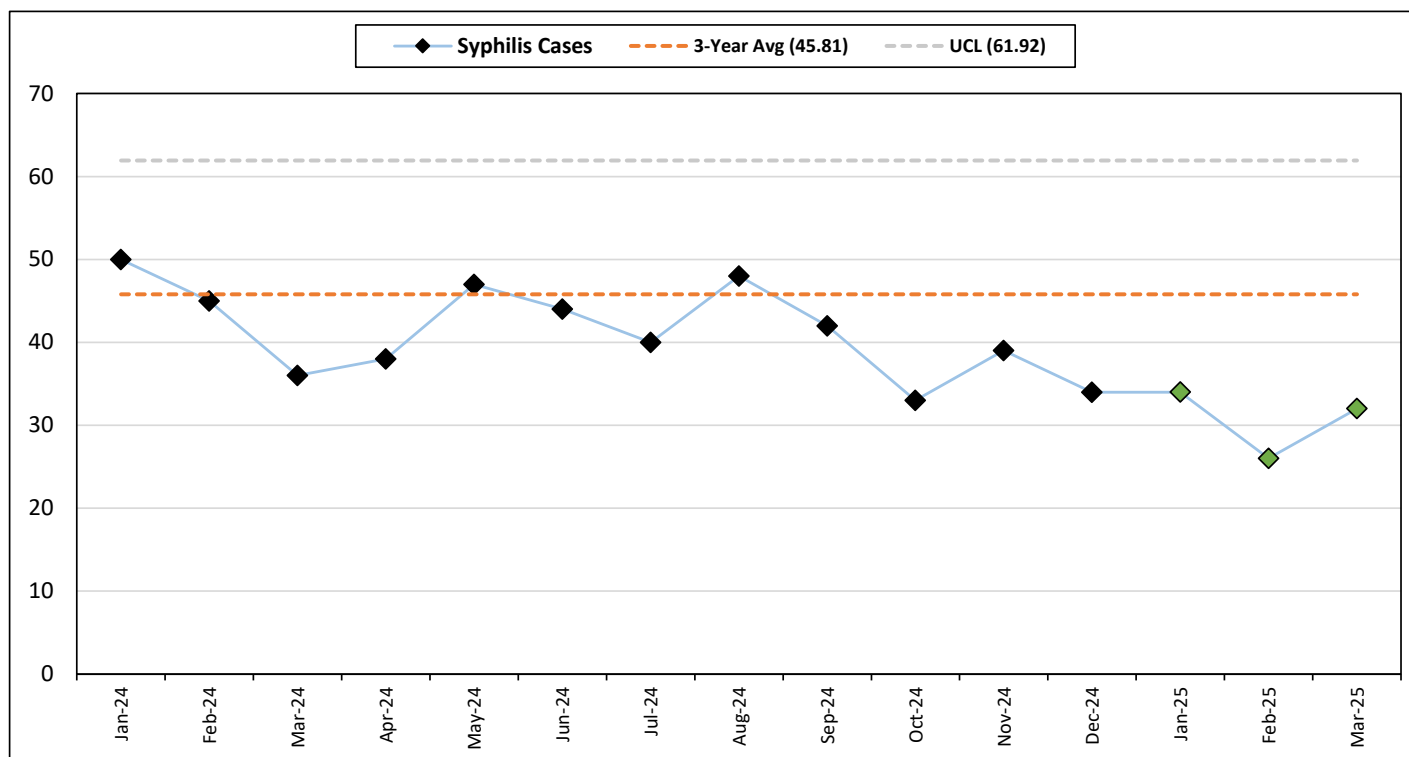
Month	2024	2025
January	50	34
February	45	26
March	36	32
April	38	–
May	47	–
June	44	–
July	40	–
August	48	–
September	42	–
October	33	–
November	39	–
December	34	–
<b>Total</b>	<b>496</b>	<b>92</b>

## Syphilis Quarterly Report: Hamilton County

**Figure 4** shows a surveillance control chart. The dashed orange line shows the average number of new syphilis cases per month for the past 3 years (2022, 2023, and 2024). The 3-year average is 45.81 new syphilis cases per month. The dashed gray line is the upper control limit (UCL) with a value of 61.92. A single point above or near the UCL may signal anomalies that need to be investigated. The diamonds on the blue line graph show the actual number of new syphilis cases by month. The green diamonds are the months from the most recent quarter.

**Analysis:** For Q1 2025, all months were **below** the 3-year average. Consecutive points above the average may signal anomalies that need to be investigated. All months in Q1 2025 have been **below** the UCL which indicates no anomalies related to the UCL for this time frame. When there are only a small number of cases, it may be difficult to distinguish random fluctuations in disease incidence from true changes in the underlying risk for the disease.

**Figure 4. Hamilton County Syphilis Infection Control Chart**



The average is found using syphilis counts by month for the previous 3 years. A standard deviation is calculated using the same time frame. The upper control limit is determined by multiplying the standard deviation by 2 and adding the 3-year average.

## Syphilis Quarterly Report: Hamilton County

**Table 8** shows syphilis stages, demographic, and risk factor data. The category showing the highest percentage of new syphilis cases is highlighted in blue. For Q1 2025, Male (63.1%), Black (55.4%), and 25-34 year old (35.9%) individuals made up the highest percentage of new syphilis cases. For risk factors, high risk heterosexual (HRH) had the highest percentage of new syphilis infections (54.3%). The “Unknown” risk factor category could be due to a disease intervention specialist not being able to determine the risk factors of the patient. See additional information below the table.

Table 8. Hamilton County Syphilis Morbidity				
	2024		2025 Q1	
	#	%	#	%
<b>Syphilis Stages</b>				
Early Latent	122	24.6%	27	29.3%
Primary	54	10.9%	8	8.7%
Secondary	81	16.3%	14	15.2%
Late/Unknown	228	46.0%	42	45.7%
Congenital	11	2.2%	1	1.1%
<b>Gender</b>				
Male	338	68.1%	58	63.1%
Female	158	31.9%	34	36.9%
<b>Race</b>				
Black	316	63.7%	51	55.4%
White	137	27.6%	32	34.8%
Multi	4	0.8%	2	2.2%
Other	37	7.5%	7	7.6%
Unknown	2	0.4%	0	0.0%
<b>Age Group</b>				
<1	11	2.2%	1	1.1%
1-14	0	0.0%	0	0.0%
15-24	61	12.3%	10	10.9%
25-34	167	33.7%	33	35.9%
35-44	141	28.4%	26	28.3%
45-54	70	14.1%	15	16.3%
55-64	33	6.7%	4	4.3%
65+	13	2.6%	3	3.3%
<b>Risk Factor</b>				
MSM	140	28.2%	26	28.3%
HRH	195	39.3%	50	54.3%
PWID	21	4.2%	2	2.2%
Unknown	140	28.2%	14	15.2%

Percentages may not total to 100 due to rounding. Percentages are based on availability of data for all cases. MSM are men who have sex with men. High risk heterosexuals (HRH) are determined by factors including but not limited to: having a previous STI, sex while intoxicated, exchanging sex for drugs, or having anonymous sexual partners. PWID is a person who injects drugs. Early syphilis cases include early latent, primary, and secondary stages. Early syphilis cases are cases where a person has been infected for less than a year.



## Syphilis Quarterly Report: Butler County

### Overview of Syphilis in Butler County

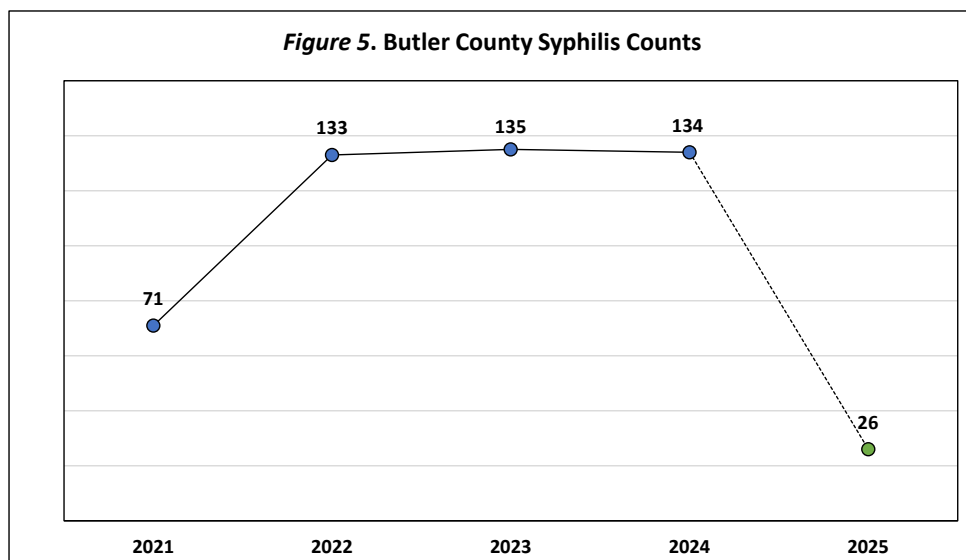
**Table 9. Butler County Total Syphilis by Year**

2021	2022	2023	2024	2025
71	133	135	134	26*

\*Q1 Only

**Table 9** shows total new syphilis cases in Butler County from 2021 through the 1st quarter of 2025. The most recent data are highlighted in light green.

**Figure 5** is a line graph of syphilis cases from 2021 through the 1st quarter of 2025. The dotted line signifies that 2025 data is not yet complete.



**Table 10** is a comparison of the 1st quarters (Q1) of 2024 and 2025. There was a **25.7% decrease** of new syphilis cases in Q1 2025 compared to 2024 during this time period.

Table 10. Butler County Q1 Comparisons		
2024	2025	% Change
35	26	-25.7%↓

**Table 11** displays the breakdown of new syphilis cases for Butler County from 2024 through the 1st quarter of 2025 by month. In 2024, the highest number of new cases were seen in July (18 cases). In 2025, the highest number of new cases have occurred in January (11 cases).

**Table 11. Butler County Total Syphilis by Month**

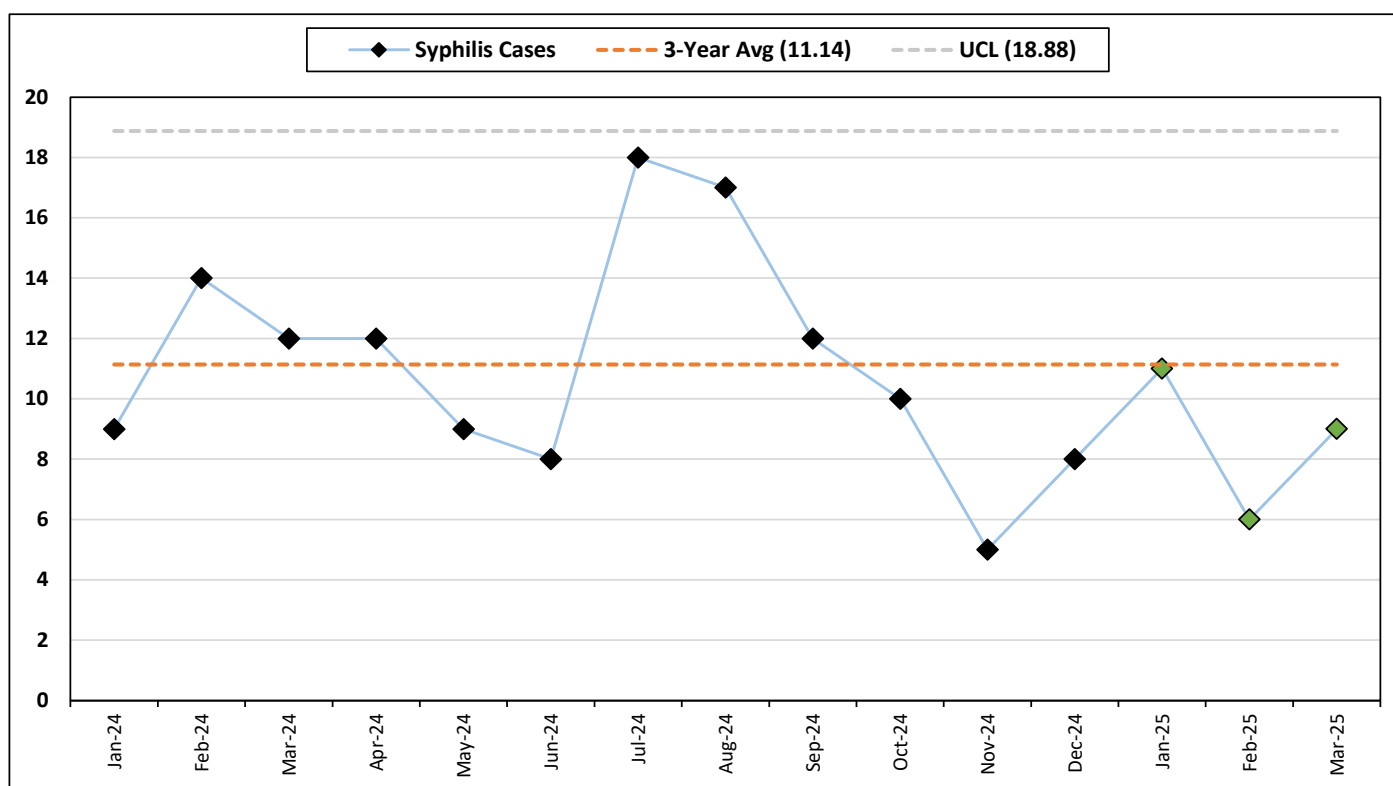
Month	2024	2025
January	9	11
February	14	6
March	12	9
April	12	-
May	9	-
June	8	-
July	18	-
August	17	-
September	12	-
October	10	-
November	5	-
December	8	-
<b>Total</b>	<b>134</b>	<b>26</b>

## Syphilis Quarterly Report: Butler County

**Figure 6** shows a surveillance control chart. The dashed orange line shows the average number of new syphilis cases per month for the past 3 years (2022, 2023, and 2024). The 3-year average is 11.14 new syphilis cases per month. The dashed gray line is the upper control limit (UCL) with a value of 18.88. A single point above or near the UCL may signal anomalies that need to be investigated. The diamonds on the blue line graph show the actual number of new syphilis infections by month. The green diamonds are the months from the most recent quarter.

**Analysis:** For Q1 2025, January was **slightly below** the 3-year average. Consecutive points above the average or a point above the UCL may signal anomalies that need to be investigated. All months in Q1 2025 were **below** the UCL. When there are only a small number of cases, it may be difficult to distinguish random fluctuations in disease incidence from true changes in the underlying risk for the disease.

**Figure 6. Butler County Syphilis Infection Control Chart**



The average is found using syphilis counts by month for the previous 3 years. A standard deviation is calculated using the same time frame. The upper control limit is determined by multiplying the standard deviation by 2 and adding the 3-year average.

## Syphilis Quarterly Report: Butler County

**Table 12** shows syphilis stages, demographic, and risk factor data. The category showing the highest percentage of new syphilis cases is highlighted in **blue**. For Q1 2025, Male (50%) and Female (50%) individuals made up equal amounts of new cases. White (65.4%), 25 -34 year old (30.8%) and 35-44 year old (30.8%) individuals made up the highest percentage of new syphilis cases. For risk factors, high risk heterosexuals (HRH) individuals made up the highest percent of new cases (53.8%). The “Unknown” risk factor category could be due to a disease intervention specialist not being able to determine the risk factors of the patient. See additional information below the table.

Table 12. Butler County Syphilis Morbidity				
	2024		2025 Q1	
	#	%	#	%
<b>Syphilis Stages</b>				
Early Latent	31	23.1%	7	26.9%
Primary	14	10.4%	3	11.5%
Secondary	23	17.2%	4	15.4%
Late/Unknown	62	46.3%	12	46.2%
Congenital	4	3.0%	0	0.0%
<b>Gender</b>				
Male	86	64.3%	13	50.0%
Female	48	35.7%	13	50.0%
<b>Race</b>				
Black	14	10.4%	7	26.9%
White	109	81.3%	17	65.4%
Multi	1	0.7%	0	0.0%
Other	8	6.0%	2	7.7%
Unknown	2	1.5%	0	0.0%
<b>Age Group</b>				
<1	4	3.0%	0	0.0%
1-14	0	0.0%	0	0.0%
15-24	20	14.9%	3	11.5%
25-34	35	26.1%	8	30.8%
35-44	34	25.4%	8	30.8%
45-54	25	18.7%	5	19.2%
55-64	13	9.7%	2	7.7%
65+	3	2.2%	0	0.0%
<b>Risk Factor</b>				
MSM	32	23.9%	5	19.2%
HRH	31	23.1%	14	53.8%
PWID	19	14.2%	2	7.7%
Unknown	52	38.8%	5	19.2%

Percentages may not total to 100 due to rounding. Percentages are based on availability of data for all cases. MSM are men who have sex with men. High risk heterosexuals (HRH) are determined by factors including but not limited to: having a previous STI, sex while intoxicated, exchanging sex for drugs, or having anonymous sexual partners. PWID is a person who injects drugs. Early syphilis cases include early latent, primary, and secondary stages. Early syphilis cases are cases where a person has been infected for less than a year.

### Overview of Syphilis in Brown, Clermont, Clinton, Highland, and Warren

**Table 13: Select Region 8 Counties Syphilis Cases by Quarter**

	Brown	Clermont	Clinton	Highland	Warren
<b>2024</b>					
Q1	0	6	3	1	5
Q2	1	1	1	0	3
Q3	1	5	0	0	6
Q4	1	4	0	2	4
<b>Total</b>	<b>3</b>	<b>16</b>	<b>4</b>	<b>3</b>	<b>18</b>
<b>2025</b>					
Q1	1	2	2	2	2
Q2	–	–	–	–	–
Q3	–	–	–	–	–
Q4	–	–	–	–	–
<b>Total</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>

**Table 13** shows total new syphilis cases in select Region 8 counties by quarter for 2024 and 2025. For Q1 2024, Clermont, Clinton, Highland, and Warren Counties all had the highest number of new syphilis cases (2 cases).

**Table 14. Select Region 8 Counties Syphilis Morbidity**

	2024		2025 Q1	
	#	%	#	%
<b>Syphilis Stages</b>				
Early Latent	8	18.2%	1	11.1%
Primary	6	13.6%	1	11.1%
Secondary	10	22.7%	0	0.0%
Late/Unknown	20	45.5%	6	66.7%
Congenital	0	0.0%	1	11.1%
<b>Gender</b>				
Male	31	70.2%	7	77.8%
Female	13	29.8%	2	22.2%
<b>Race</b>				
Black	3	6.8%	0	0.0%
White	39	88.6%	8	88.9%
Multi	0	0.0%	0	0.0%
Other	2	4.5%	1	11.1%
Unknown	0	0.0%	0	0.0%
<b>Age Group</b>				
<1	0	0.0%	1	11.1%
15-24	5	11.4%	0	0.0%
25-34	10	22.7%	3	33.3%
35-44	13	29.5%	4	44.4%
45-54	11	25.0%	1	11.1%
55-64	3	6.8%	0	0.0%
65+	2	4.5%	0	0.0%
<b>Risk Factor</b>				
MSM	10	22.7%	3	33.3%
HRH	12	27.3%	1	11.1%
PWID	2	4.5%	1	11.1%
Unknown	20	45.5%	4	44.4%

**Table 14** shows demographic and risk factor data for the aggregate of the select Region 8 counties. The category showing the highest percentage of new syphilis cases is highlighted in blue. For Q1 2025, Male (77.8%), White (88.9%), and 35-44 year old (44.4%) individuals made up the highest percentage of new syphilis infections. For risk factors (excluding “Unknown”), men who have sex with men (MSM) had the highest percentage of new syphilis cases (33.3%). Risk factor definitions are on previous pages.