



Sexually Transmitted Infections in Wisconsin, 2022

Northern Region

Wisconsin Department of Health Services | Division of Public Health | STI Unit

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Wisconsin Sexually Transmitted Infections (STI) Surveillance Report 2022 - Northern Region

Overall, cases of sexually transmitted infections (chlamydia, gonorrhea, and syphilis) reported in the northern region decreased by 6% from 2021 to 2022. Reported cases of **gonorrhea decreased drastically** with **nearly 39% decline** observed from 2021 to 2022 (222 cases in 2021 to 136 cases in 2022). Likewise, the reported cases of **chlamydia decreased by 1%** in the same period (1,178 cases in 2021 to 1,171 cases in 2022). In contrast, the reported cases of **syphilis increased by 14%** during this period.

Figure 1.

Drastic drop in reported cases of gonorrhea observed in 2022, however the reported cases of syphilis increased by 14%.

Trend of reported cases of STI in the northern region, 2018 - 2022

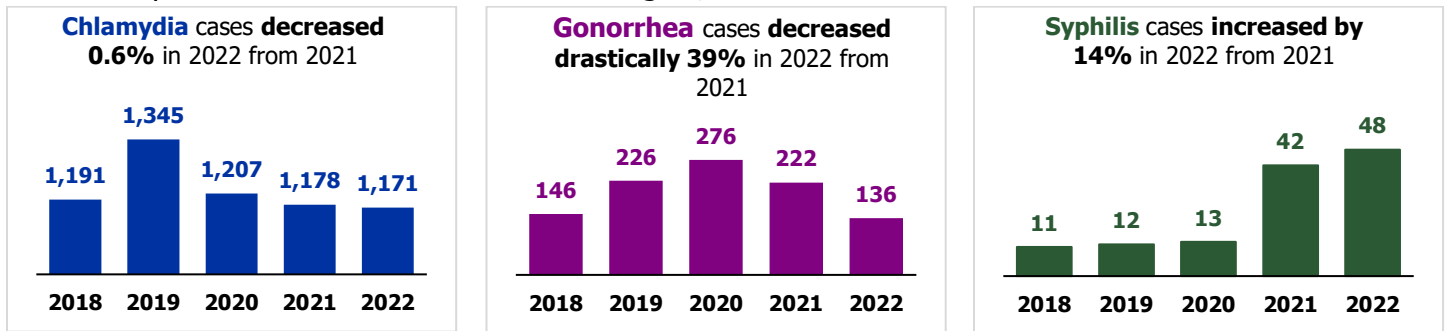
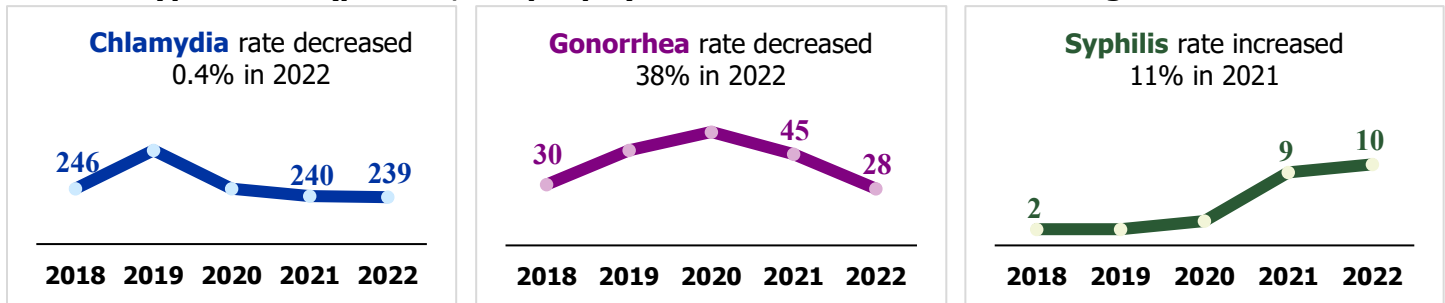


Figure 2.

Trend of syphilis rate (per 100,000 people) continues to rise in northern region.



Key Points:



Sexually Transmitted Infections are widespread, impacting people of all races, ethnicities, gender, ages in northern region.



The rate of reported cases of syphilis went up 11% in 2022 from 2021. Rates of chlamydia and gonorrhea decreased in 2022 compared to 2021.



The most vulnerable populations include men and women between ages 20-35.

Wisconsin Sexually Transmitted Infection (STI) Surveillance Report

Reported Cases and Rates per100,000 people by Gender, Race, Ethnicity, and Age

Northern Region - 2022

	Chlamydia			Gonorrhea			Syphilis			Total		
	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates
Total	1,171	100%	239	136	100%	28	48	100%	10	1,355	100%	276
Gender												
Male	338	28.9%	137	67	49.3%	27	35	72.9%	14	440	32.5%	178
Female	829	70.8%	341	69	50.7%	28	13	27.1%	5	911	67.2%	374
Transgender Female	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	-
Transgender Male	1	0.1%	-	0	0.0%	-	0	0.0%	-	1	0.1%	-
Unknown	3	0.3%	-	0	0.0%	-	0	0.0%	-	3	0.2%	-
Race/Ethnicity												
White	861	73.5%	194	79	58.1%	18	24	50.0%	5	964	71.1%	217
Black	77	6.6%	1349	25	18.4%	438	4	8.3%	*	106	7.8%	1857
Native American	60	5.1%	473	14	10.3%	110	11	22.9%	87^	85	6.3%	671
Asian	39	3.3%	273	3	2.2%	*	0	0.0%	0	42	3.1%	294
Hispanic	97	8.3%	695	9	6.6%	64^	8	16.7%	57^	114	8.4%	817
Other/Unknown	37	3.2%	-	6	4.4%	-	1	2.1%	-	44	3.2%	-
Age												
0-4	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0%	0
5-9	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0%	0
10-14	2	0.2%	*	0	0.0%	0	0	0.0%	0	2	0.1%	*
15-19	287	24.5%	973	15	11.0%	51	2	4.2%	*	304	22.4%	1031
20-24	468	40.0%	1675	34	25.0%	122	6	12.5%	21^	508	37.5%	1818
25-29	194	16.6%	723	21	15.4%	78	13	27.1%	48	228	16.8%	850
30-34	109	9.3%	427	27	19.9%	106	12	25.0%	47	148	10.9%	579
35-39	48	4.1%	173	13	9.6%	47	4	8.3%	*	65	4.8%	234
40-44	35	3.0%	136	18	13.2%	70	6	12.5%	23^	59	4.4%	229
45-49	13	1.1%	47	3	2.2%	*	0	0.0%	0	16	1.2%	58
50+	15	1.3%	7	5	3.7%	*	5	10.4%	*	25	1.8%	12

*Rates based on five case counts or less are not shown. ^Rate is unreliable due to a count <12.

Wisconsin Sexually Transmitted Infections (STI) Surveillance Report Reported Cases and Rates per100,000 people by County Northern Region - 2022

Northern	Chlamydia			Gonorrhea			Syphilis			Total		
	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates
Ashland	42	3.6%	266	4	2.9%	*	6	12.5%	38^	52	3.8%	329
Bayfield	12	1.0%	78	2	1.5%	*	1	2.1%	*	15	1.1%	98
Florence	3	0.3%	*	0	0.0%	0	1	2.1%	*	4	0.3%	*
Forest	24	2.0%	263	5	3.7%	*	1	2.1%	*	30	2.2%	329
Iron	10	0.9%	172^	0	0.0%	0	0	0.0%	0	10	0.7%	172^
Langlade	42	3.6%	212	4	2.9%	*	0	0.0%	0	46	3.4%	233
Lincoln	54	4.6%	189	7	5.1%	25^	1	2.1%	*	62	4.6%	217
Marathon	365	31.2%	268	60	44.1%	44	11	22.9%	8^	436	32.2%	321
Oneida	49	4.2%	136	9	6.6%	25^	2	4.2%	*	60	4.4%	166
Portage	255	21.8%	357	9	6.6%	13^	10	20.8%	14^	274	20.2%	383
Price	10	0.9%	72^	3	2.2%	*	0	0.0%	0	13	1.0%	93
Sawyer	47	4.0%	279	7	5.1%	42^	7	14.6%	42^	61	4.5%	363
Taylor	33	2.8%	159	3	2.2%	*	0	0.0%	0	36	2.7%	174
Vilas	18	1.5%	82	5	3.7%	*	2	4.2%	*	25	1.8%	114
Wood	207	17.7%	278	18	13.2%	24	6	12.5%	8^	231	17.0%	310
Region total	1171	100.0%	239	136	100.0%	28	48	100.0%	10	1355	100.0%	276

*Rates based on five case counts or less are not shown. ^Rate is unreliable due to a count <12.

Wisconsin Syphilis Surveillance Report - Reported Cases and Rates per 100,000 people by Stage of Infection, Gender, Race/Ethnicity, and Age Northern Region - 2022

	Primary			Secondary			Early Latent			Early Total		
	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rate	Cases	Percent	Rates
Total	11	100%	2	10	100%	2 [^]	8	100%	2 [^]	29	100%	6
Gender												
Male	10	91%	4 [^]	7	70%	3 [^]	6	75%	2 [^]	23	79%	9
Female	1	9%	*	3	30%	*	2	25%	*	6	21%	2 [^]
Transgender Female	0	0%	-	0	0%	-	0	0%	-	0	0%	-
Transgender Male	0	0%	-	0	0%	-	0	0%	-	0	0%	-
Unknown	0	0%	-	0	0%	-	0	0%	-	0	0%	-
Race/Ethnicity												
White	5	45%	*	5	50%	*	7	88%	2 [^]	17	59%	4
Black	2	18%	*	1	10%	*	0	0%	0	3	10%	*
Native American	3	27%	*	2	20%	*	1	13%	*	6	21%	47 [^]
Asian	0	0%	0	0	0%	0	0	0%	0	0	0%	0
Hispanic	1	9%	*	2	20%	*	0	0%	0	3	10%	*
Other/Unknown	0	0%	-	0	0%	-	0	0%	-	0	0%	-
Age												
0-4	0	0%	0	0	0%	0	0	0%	0	0	0%	0
5-9	0	0%	0	0	0%	0	0	0%	0	0	0%	0
10-14	0	0%	0	0	0%	0	0	0%	0	0	0%	0
15-19	0	0%	0	1	10%	*	0	0%	0	1	3%	*
20-24	1	9%	*	3	30%	*	0	0%	0	4	14%	*
25-29	4	36%	*	2	20%	*	2	25%	*	8	28%	30 [^]
30-34	3	27%	*	2	20%	*	1	13%	*	6	21%	23 [^]
35-39	0	0%	0	2	20%	*	1	13%	*	3	10%	*
40-44	1	9%	*	0	0%	0	2	25%	*	3	10%	*
45-49	2	18%	*	0	0%	0	2	25%	*	4	14%	*
50+	0	0%	0	0	0%	0	0	0%	0	0	0%	0

*Rates based on five case counts or less are not shown. [^]Rate is unreliable due to a count <12.

Wisconsin Syphilis Surveillance Report - Reported Cases and Rates per 100,000 people by Stage of Infection, Gender, Race, Ethnicity, and Age Northern Region - 2022

	Early Total			Late Latent			Congenital			All Stage Total		
	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates
Total	29	100%	6	19	100%	4	0	0%	0	48	100%	10
Gender												
Male	23	79%	9	12	120%	5	0	0%	0	35	73%	14
Female	6	21%	2 [^]	7	70%	3 [^]	0	0%	0	13	27%	5
Transgender Female	0	0%	-	0	0%	-	0	0%	-	0	0%	-
Transgender Male	0	0%	-	0	0%	-	0	0%	-	0	0%	-
Unknown	0	0%	-	0	0%	-	0	0%	-	0	0%	-
Race/Ethnicity												
White	17	59%	4	7	70%	2 [^]	0	0%	0	24	50%	5
Black	3	10%	*	1	10%	*	0	0%	0	4	8%	*
Native American	6	21%	47 [^]	5	50%	*	0	0%	0	11	23%	87 [^]
Asian	0	0%	0	0	0%	0	0	0%	0	0	0%	0
Hispanic	3	10%	*	5	50%	*	0	0%	0	8	17%	57 [^]
Other/Unknown	0	0%	-	1	10%	-	0	0%	-	1	2%	-
Age												
0-4	0	0%	0	0	0%	0	0	0%	0	0	0%	0
5-9	0	0%	0	0	0%	0	0	0%	0	0	0%	0
10-14	0	0%	0	0	0%	0	0	0%	0	0	0%	0
15-19	1	3%	*	1	10%	*	0	0%	0	2	4%	*
20-24	4	14%	*	2	20%	*	0	0%	0	6	13%	21 [^]
25-29	8	28%	30 [^]	5	50%	*	0	0%	0	13	27%	48
30-34	6	21%	23 [^]	6	60%	23 [^]	0	0%	0	12	25%	47
35-39	3	10%	*	1	10%	*	0	0%	0	4	8%	*
40-44	3	10%	*	3	30%	*	0	0%	0	6	13%	23 [^]
45-49	4	14%	*	1	10%	*	0	0%	0	5	10%	*
50+	0	0%	0	0	0%	0	0	0%	0	0	0%	0

*Rates based on five case counts or less are not shown. [^]Rate is unreliable due to a count <12.

Technical Notes

1. This report is compiled by the Wisconsin STI Unit and are based on STI case surveillance data collected by the Wisconsin Division of Public Health (DPH). In Wisconsin, state statutes require both laboratories and health care providers to report cases of chlamydia, gonorrhea, syphilis, chancroid, and pelvic inflammatory disease to local health departments. STI case surveillance data is automatically sent to the Wisconsin STI Unit via WEDSS (Wisconsin Electronic Disease Surveillance System).
2. This report includes cases diagnosed within the specified period. Additional cases diagnosed within the specified period may continue to be reported. Thus, this report should be considered provisional, and it supersedes all previous reports.
3. Reporting of STI cases can be incomplete. Reporting rates can be varied by disease, geographic region, and demographic groups. At any time, reported STI cases represent only part of the total number of diagnosed cases, therefore STI surveillance data likely underestimates total STI morbidity.
4. Rate is calculated based on the population data available on WISH (Wisconsin Interactive Statistics on Health) system website. In these reports, rates presented are cases per 100,000 population (2020). Rates are not calculated for categories with small numbers of cases. See each report for the rate calculation threshold.
5. In this report, cases are allocated to the derived county at the time of diagnosis. Cases from federal, state, or certain private institutions are not included in the regional report but is included in the statewide report and geographic region for these cases are assigned as institution.
6. Cases residing outside Wisconsin are not included in this report.
7. All races are non-Hispanic ethnicity. Under the category race, Asian includes Asian Pacific Islander and American Indian Alaska Native is named as Native American.
8. Rates based on five case counts or less are not shown and rates based on case counts less than 12 are marked as statistically unreliable.

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