



Sexually Transmitted Infections in Wisconsin, 2021

Northern Region



Wisconsin Sexually Transmitted Infections (STI) Surveillance Report

Northern Region – 2021

Overall STIs cases reported in Northern region decreased by 3.6% in 2021. The most significant change observed in 2021 was a 223% increase in Syphilis cases reported. In 2021, gonorrhea cases decreased by 20% and chlamydia cases decreased by 2.4%.

Table 1.

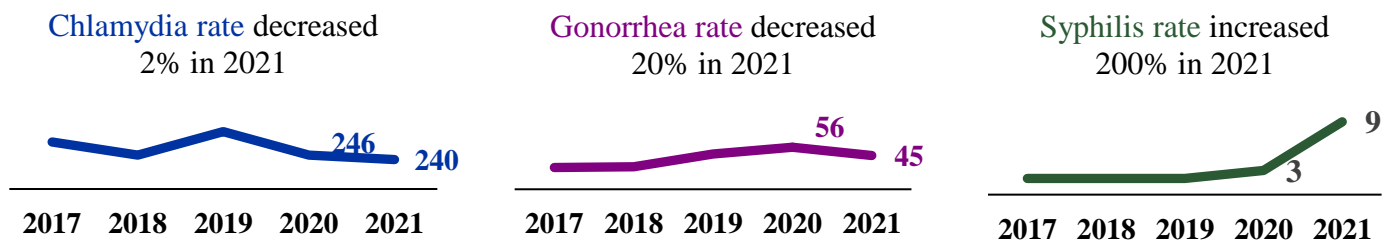
Chlamydia and Gonorrhea decreased in 2021, but Syphilis increased significantly.

Number of Reported STI Cases and Rates (per 100,000 people) Northern Region, 2017 - 2021

Disease	2017		2018		2019		2020		2021	
	Cases	Rates	Cases	Rates	Cases	Rates	Cases	Rates	Cases	Rates
Chlamydia	1,276	264	1,191	246	1,345	278	1,207	246	1,178	240
Gonorrhea	139	29	146	30	226	47	276	56	222	45
Syphilis	10	2	11	2	12	2	13	3	42	9

Figure 1.

Syphilis rate* increased 200% in 2021



*Rate per 100,000 people

Key Points:



Sexually Transmitted Infections are widespread, impacting people of all races, ethnicities, gender, ages. In 2021, there was a dramatic increase in syphilis cases in Sawyer County. The Syphilis rate went up from 0 to 131 per 100,000 people. This is the highest increase among all other counties in Wisconsin.



Rates of chlamydia and gonorrhea decreased in 2021, but the syphilis rate increased 200%.



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 - 2021

	Chlamydia			Gonorrhea			Syphilis			Total		
	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates
Total	1,178	100%	240	222	100%	45	42	100%	9	1,442	100%	294
Gender												
Male	350	29.7%	142	99	44.6%	40	26	61.9%	11	475	32.9%	192
Female	827	70.2%	340	123	55.4%	51	15	35.7%	6	965	66.9%	396
Transgender Female	1	0.1%	-	0	0.0%	-	1	2.4%	-	2	0.1%	-
Transgender Male	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	-
Unknown	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	-
Race/Ethnicity												
White	755	64.1%	170	126	56.8%	28	16	38.1%	4	897	62.2%	202
Black	66	5.6%	1156	36	16.2%	631	1	2.4%	*	103	7.1%	1805
Native American	51	4.3%	402	14	6.3%	110	18	42.9%	142	83	5.8%	655
Asian	30	2.5%	210	11	5.0%	77^	2	4.8%	*	43	3.0%	301
Hispanic	90	7.6%	645	11	5.0%	79^	4	9.5%	*	105	7.3%	752
Other/Unknown	186	15.8%	-	24	10.8%	-	1	2.4%	-	211	14.6%	-
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	6	0.5%	20^	1	0.5%	*	0	0.0%	0	7	0.5%	24^
15-19	283	24.0%	959	16	7.2%	54	0	0.0%	0	299	20.7%	1014
20-24	495	42.0%	1772	54	24.3%	193	10	23.8%	36^	559	38.8%	2001
25-29	210	17.8%	783	43	19.4%	160	8	19.0%	30^	261	18.1%	973
30-34	94	8.0%	368	34	15.3%	133	11	26.2%	43^	139	9.6%	544
35-39	48	4.1%	173	33	14.9%	119	6	14.3%	22^	87	6.0%	314
40-44	20	1.7%	78	22	9.9%	85	2	4.8%	*	44	3.1%	171
45-49	9	0.8%	33^	11	5.0%	40^	3	7.1%	*	23	1.6%	83
50+	13	1.1%	6	8	3.6%	4^	2	4.8%	*	23	1.6%	11

*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 - 2021

Northern	Chlamydia			Gonorrhea			Syphilis			Total		
	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates
Ashland	47	4.0%	297	5	2.3%	*	3	7.1%	*	55	3.8%	348
Bayfield	21	1.8%	137	4	1.8%	*	1	2.4%	*	26	1.8%	170
Florence	2	0.2%	*	1	0.5%	*	0	0.0%	0	3	0.2%	*
Forest	14	1.2%	153	4	1.8%	*	0	0.0%	0	18	1.2%	197
Iron	16	1.4%	275	0	0.0%	0	0	0.0%	0	16	1.1%	275
Langlade	46	3.9%	233	3	1.4%	*	0	0.0%	0	49	3.4%	248
Lincoln	65	5.5%	228	4	1.8%	*	0	0.0%	0	69	4.8%	242
Marathon	346	29.4%	255	93	41.9%	68	3	7.1%	*	442	30.7%	325
Oneida	56	4.8%	155	9	4.1%	25^	4	9.5%	*	69	4.8%	191
Portage	290	24.6%	406	37	16.7%	52	3	7.1%	*	330	22.9%	462
Price	20	1.7%	144	0	0.0%	0	0	0.0%	0	20	1.4%	144
Sawyer	36	3.1%	214	21	9.5%	125	22	52.4%	131	79	5.5%	470
Taylor	20	1.7%	97	1	0.5%	*	2	4.8%	*	23	1.6%	111
Vilas	16	1.4%	73	0	0.0%	0	0	0.0%	0	16	1.1%	73
Wood	183	15.5%	246	40	18.0%	54	4	9.5%	*	227	15.7%	305
Region total	1,178	100.0%	240	222	100.0%	45	42	100.0%	9	1,442	100.0%	294

*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 - 2021

	Primary			Secondary			Early Latent			Early Total		
	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rate	Cases	Percent	Rates
Total	9	100%	2^	9	100.0%	2^	6	100%	1^	24	100%	5
Gender												
Male	7	77.8%	3^	7	77.8%	3^	1	16.7%	*	15	62.5%	6
Female	2	22.2%	*	2	22.2%	*	4	66.7%	*	8	33.3%	3^
Transgender Female	0	0.0%	-	0	0.0%	-	1	16.7%		1	4.2%	-
Transgender Male	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	-
Unknown	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	-
Race/Ethnicity												
White	2	22.2%	*	3	33.3%	*	4	66.7%	*	9	37.5%	2^
Black	0	0.0%	*	0	0.0%	0	0	0.0%	0	0	0.0%	0
Native American	5	55.6%	*	4	44.4%	*	2	33.3%	*	11	45.8%	87^
Asian	1	11.1%	*	1	11.1%	*	0	0.0%	0	2	8.3%	*
Hispanic	1	11.1%	*	0	0.0%	0	0	0.0%	0	1	4.2%	*
Other/Unknown	0	0.0%	-	1	11.1%	-	0	0.0%	-	1	4.2%	-
Age												
0-4	0	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%	0
10-14	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0
15-19	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0
20-24	3	33.3%	*	2	22.2%	*	2	33.3%	*	7	29.2%	25^
25-29	2	22.2%	*	1	11.1%	*	1	16.7%	*	4	16.7%	*
30-34	3	33.3%	*	2	22.2%	*	2	33.3%	*	7	29.2%	27^
35-39	1	11.1%	*	2	22.2%	*	0	0.0%	0	3	12.5%	*
40-44	0	0.0%	0	0	0.0%	0	1	16.7%	*	1	4.2%	*
45-49	0	0.0%	0	2	22.2%	*	0	0.0%	0	2	8.3%	*
50+	0	0.0%	0	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 - 2021

	Early Total			Late Latent			Congenital			All Stage Total		
	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates
Total	24	100%	5	18	100%	4	0	0.0%	0	42	100%	9
Gender												
Male	15	62.5%	6	11	122.2%	4^	0	0.0%	0	26	61.9%	11
Female	8	33.3%	3^	7	77.8%	3^	0	0.0%	0	15	35.7%	6
Transgender Female	1	4.2%	-	0	0.0%	-	0	0.0%	0	1	2.4%	-
Transgender Male	0	0.0%	-	0	0.0%	-	0	0.0%	0	0	-	-
Unknown	0	0.0%	-	0	0.0%	-	0	0.0%	0	0	-	-
Race/Ethnicity												
White	9	37.5%	2 ^	7	77.8%	2^	0	0.0%	0	16	38.1%	4
Black	0	0.0%	0	1	11.1%	*	0	0.0%	0	1	2.4%	*
Native American	11	45.8%	87^	7	77.8%	55^	0	0.0%	0	18	42.9%	142
Asian	2	8.3%	*	0	0.0%	0	0	0.0%	0	2	4.8%	*
Hispanic	1	4.2%	*	3	33.3%	*	0	0.0%	0	4	9.5%	*
Other/Unknown	1	4.2%	-	0	0.0%	-	0	0.0%	-	1	2.4%	-
Age												
0-4	0	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%	0
10-14	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0
15-19	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0
20-24	7	29.2%	25^	3	33.3%	*	0	0.0%	0	10	23.8%	36^
25-29	4	16.7%	*	4	44.4%	*	0	0.0%	0	8	19.0%	30^
30-34	7	29.2%	27^	4	44.4%	*	0	0.0%	0	11	26.2%	43
35-39	3	12.5%	*	3	33.3%	*	0	0.0%	0	6	14.3%	22^
40-44	1	4.2%	*	1	11.1%	*	0	0.0%	0	2	4.8%	*
45-49	2	8.3%	*	1	11.1%	*	0	0.0%	0	3	7.1%	*
50+	0	0.0%	0	2	22.2%	*	0	0.0%	0	2	4.8%	*

*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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