



STD Diagnoses in Michigan, 2019

All data as of July 1, 2020



225	24	3	32	17	41	27
62	17	2	2	6	11	10
7	26		130		15	4
	61		33		57	15
	7				7	9
53			1	1	46	8
8			14		35	7
30		3	1	3	4	5
				1	14	6
30					15	4
22			23	2	10	7
3			3		7	
			31	1	18	5
			52		11	8
			7		35	41
			83		24	14
2			149		10	11
1					35	85
					41	8
					6	5
					13	

HIV & STD Surveillance & Epidemiology Section
Division of HIV & STD Programs
Bureau of Infectious Disease
Michigan Department of Health and Human Services

Lansing - HIV Surveillance Office
333 S. Grand Ave., 3rd Floor
Lansing, MI 48913
517-335-8165

Detroit - HIV Surveillance Office
Cadillac Place
3044 W Grand Blvd Ste 3-300
Detroit, MI 48202
313-456-1586



www.michigan.gov/hivstd

Overview

Michigan's STD Surveillance Program collects, interprets, and disseminates population level data regarding persons with sexually transmitted diseases. Data is collected in the Michigan Disease Surveillance System (MDSS) where reports from laboratories, private providers, and local public health give information about diagnosis, demographics, and patient behaviors. The most commonly reported sexually transmitted diseases are Chlamydia, gonorrhea, and syphilis. For the purposes of this report, counts of early stage and symptomatic syphilis (primary and secondary syphilis) are included.

Key Definitions

The Basics

New Diagnoses: The number of cases newly diagnosed over a given period of time, usually a year. The date assigned to an STD report is the onset date, or if that is missing the specimen collection date is used. If both dates are missing, the referral date, or the date the report was referred to MDHHS, is used.

Diagnosis Rate: For every 100,000 people in a population, the number who were newly diagnosed. This is used to compare groups.

P&S Syphilis: Primary and secondary, or the earliest stages of syphilis infection. During primary syphilis, symptoms appear where syphilis entered the body and last 3-6 weeks. In the following phase, secondary syphilis, symptoms typically manifest with body rash and last 2-10 weeks. Following these symptomatic stages, syphilis is considered latent but still can be infectious and can have long term health consequences, but for the purposes of surveillance reports, symptomatic syphilis (P&S) is used for annual statistics and year-to-year comparisons.

Congenital Syphilis: infection acquired by the fetus in the uterus before birth. Symptoms of this disease may not become apparent until several weeks or months after birth and, in some cases, may take years to appear. CDC case definition of congenital syphilis include laboratory confirmed results from the infant OR any infant whose mother had untreated or inadequately treated* syphilis at delivery, regardless of signs in the infant

The following measures are displayed in this report:

Count: The number of persons newly diagnosed during the given year.

Pop: The total population (census) during the given year.

Rate: The new diagnosis rate per 100,000 persons in the specified population during the given year ($\text{count/pop} \times 100,000$ or $\text{count/est pop} \times 100,000$).

Risk Categories and Hierarchy

MSM: Men who have sex with men.

PWID: Persons who inject drugs.

Heterosexual: Males: men who are not MSM or PWID and reported sex with an HIV positive female or a female at risk (includes CDC and HRSA definitions).

Females: females who are not a PWID and reported sex with a male

STD Diagnoses by Characteristics, 2019

	Gonorrhea		P&S Syphilis ¹		Chlamydia		2019 Population ²
	Case Count	rate per 100,000	Case Count	rate per 100,000	Case Count	rate per 100,000	
Race/Ethnicity							
Black	10,367	754.0	367	26.7	19,925	1,449.2	1,374,886
Hispanic	567	107.3	46	8.7	2,066	391.1	528,205
White	3,677	49.3	246	3.3	14,774	197.9	7,464,662
Asian/NH/PI	73	21.8	7	2.1	375	111.9	335,134
Am Indian/AN	50	87.3	4	7.0	175	305.6	57,264
Multi/Other	775	341.9	11	4.9	2,497	1,101.4	226,706
Unknown	2,755	-	4	-	10,562	-	
Male	9,554	194.2	589	12.0	17,222	350.1	4,918,528
Black	5,773	885.3	318	48.8	7,633	1,170.6	652,064
Hispanic	265	98.8	39	14.5	632	235.5	268,329
White	1,576	42.7	208	5.6	4,236	114.7	3,692,305
Other	493	161.2	21	6.9	986	322.4	305,830
Unknown	1,447	-	3	-	3,735	-	
Female	8,706	171.8	96	1.9	33,130	653.7	5,068,329
Black	4,594	635.6	49	6.8	12,290	1,700.3	722,822
Hispanic	302	116.2	7	2.7	1,434	551.8	259,876
White	2,099	55.6	38	1.0	10,536	279.3	3,772,357
Other	405	129.3	1	0.3	2,061	657.9	313,274
Unknown	1,306	-	1	-	6,809	-	
Unknown Sex - All Races	4	-	-	-	22	-	-
Risk*							
MSM	596		346	121.3	571		285,275*
MSM/PWID	6	<i>Risk information is unreliable (missing in 81.1% of cases)</i>	13		8	<i>Risk information is unreliable (missing in 80.1% of cases)</i>	-
PWID	48		12		69		-
Heterosexual	2,733		249		9,352		-
Males	1,174		167		2,981		-
Females	1,559		82		6,371		-
Undetermined	14,881		65		40,374		-
Age at diagnosis							
Less than 15 years	100	5.7	1	0.1	421	23.9	1,763,131
15-19 years	3,475	539.1	33	5.1	14,392	2,232.8	644,559
20-24 years	5,393	791.0	102	15.0	18,624	2,731.7	681,766
25-29 years	4,117	590.0	165	23.6	9,286	1,330.7	697,811
30-39 years	3,320	273.7	190	15.7	5,659	466.5	1,213,131
40-49 years	1,137	96.4	106	9.0	1,391	117.9	1,179,375
50-59 years	516	38.2	64	4.7	462	34.2	1,350,299
60+ years	206	8.4	24	1.0	139	5.7	2,456,785
Total	18,264	182.88	685	6.86	50,374	504.40	9,986,857

1 - P&S: Primary and Secondary Syphilis

2 - Rate per 100,000 based on annual Census Bureau estimates from the American Community Survey (ACS)

*MSM Census estimate is 5.8% of the male population in Michigan (Lieb S, et al 2011. Statewide Estimation of Racial/Ethnic Populations of Men Who Have Sex with Men in the U.S.)

Congenital Syphilis Cases Over Time, 2015 - 2019

Birth Year	2015	2016	2017	2018	2019
Number of CS diagnoses	11	13	10	14	16

MI STD by Local Health Jurisdiction, 2019

	Gonorrhea		P&S Syphilis ¹		Chlamydia		2019 Population
	Case Count	rate per 100,000	Case Count	rate per 100,000	Case Count	rate per 100,000	
Allegan County	109	92.31	2	1.69	407	344.68	118,081
Barry-Eaton	141	82.06	9	5.24	594	345.71	171,818
Bay County	106	102.79	1	0.97	388	376.24	103,126
Benzie-Leelanau	7	17.71	0	0.00	66	166.97	39,527
Berrien County	303	197.52	2	1.30	863	562.58	153,401
Branch-Hillsdale-St. Joseph	165	109.94	2	1.33	409	272.51	150,086
Calhoun County	471	351.08	5	3.73	947	705.88	134,159
Central Michigan District	96	50.89	6	3.18	589	312.25	188,633
Chippewa County	4	10.71	4	10.71	59	157.97	37,349
Delta-Menominee	9	15.37	0	0.00	169	288.57	58,564
Dickinson-Iron	6	16.53	0	0.00	97	267.18	36,305
District 2	9	13.90	0	0.00	92	142.04	64,770
District 4	17	22.49	2	2.65	131	173.28	75,601
District 10	88	33.17	2	0.75	757	285.37	265,271
Genesee County	1098	270.57	24	5.91	2938	723.98	405,813
Grand Traverse County	39	41.90	6	6.45	271	291.12	93,088
Huron County	4	12.91	0	0.00	48	154.93	30,981
Ingham County	530	181.25	26	8.89	1807	617.98	292,406
Ionia County	32	49.46	5	7.73	174	268.95	64,697
Jackson County	250	157.72	5	3.15	921	581.04	158,510
Kalamazoo County	1083	408.58	20	7.55	2320	875.25	265,066
Kent County	1286	195.75	25	3.81	3623	551.48	656,955
Lapeer County	33	37.67	1	1.14	173	197.47	87,607
Lenawee County	83	84.31	1	1.02	266	270.19	98,451
Livingston County	46	23.96	2	1.04	349	181.78	191,995
Luce-Mack-Alger-School	10	29.21	0	0.00	56	163.60	34,230
Macomb County	1170	133.87	54	6.18	3568	408.25	873,972
Marquette County	7	10.49	1	1.50	240	359.83	66,699
Midland County	40	48.10	3	3.61	195	234.50	83,156
Mid-Michigan District	101	54.83	3	1.63	579	314.34	184,194
Monroe County	114	75.75	4	2.66	411	273.09	150,500
Muskegon County	572	329.56	1	0.58	1325	763.40	173,566
Northwest MI Com Hlth Agency	12	11.16	3	2.79	218	202.70	107,550
Oakland County	1282	101.94	88	7.00	4436	352.74	1,257,584
Ottawa County	161	55.17	3	1.03	802	274.82	291,830
Saginaw County	721	378.40	4	2.10	1292	678.08	190,539
Sanilac County	4	9.72	1	2.43	73	177.31	41,170
Shiawassee County	21	30.83	0	0.00	243	356.71	68,122
St Clair County	90	56.56	4	2.51	463	290.96	159,128
Tuscola County	17	32.54	0	0.00	121	231.60	52,245
Van Buren-Cass	127	99.64	2	1.57	489	383.64	127,464
Washtenaw County	574	156.15	24	6.53	1804	490.75	367,601
Wayne County	1383	128.14	89	8.25	4323	400.53	1,079,312
Detroit City	5835	870.86	251	37.46	11145	1663.36	670,031
Western UP District	8	12.18	0	0.00	133	202.42	65,704
Total	18,264	182.88	685	6.86	50,374	504.40	9,986,857

1 - P&S: Primary and Secondary Syphilis

2 - Rate per 100,000 based on annual Census Bureau estimates from the American Community Survey (ACS)

Michigan Gonorrhea, Syphilis, and Chlamydia Cases by County, 2019

County	Gonorrhea		P&S Syphilis ¹		Chlamydia		2019 Population
	Cases	Rate	Cases	Rate	Cases	Rate	
Alcona County	0	0.0	0	-	15	144.2	10,405
Alger County	1	11.0	0	-	8	87.8	9,108
Allegan County	109	92.3	2	1.7	407	344.7	118,081
Alpena County	7	24.6	0	-	67	235.9	28,405
Antrim County	4	17.1	1	4.3	52	222.9	23,324
Arenac County	4	26.9	0	-	28	188.1	14,883
Baraga County	2	24.4	0	-	31	377.6	8,209
Barry County	32	52.0	1	1.6	173	281.1	61,550
Bay County	106	102.8	1	1.0	387	375.3	103,126
Benzie County	3	16.9	0	-	32	180.1	17,766
Berrien County	303	197.5	2	1.3	863	562.6	153,401
Branch County	43	98.8	1	-	112	257.4	43,517
Calhoun County	471	351.1	5	3.7	947	705.9	134,159
Cass County	55	106.2	0	-	215	415.2	51,787
Charlevoix County	4	15.3	0	-	57	218.0	26,143
Cheboygan County	6	23.7	1	4.0	36	142.4	25,276
Chippewa County	4	10.7	4	10.7	60	160.6	37,349
Clare County	11	35.5	1	3.2	73	235.9	30,950
Clinton County	48	60.3	3	3.8	252	316.6	79,595
Crawford County	1	7.1	0	-	38	270.9	14,029
Delta County	5	14.0	0	-	112	313.0	35,784
Dickinson County	4	15.8	0	-	71	281.3	25,239
Eaton County	109	98.9	8	7.3	421	381.8	110,268
Emmet County	3	9.0	0	-	66	197.5	33,415
Genesee County	1098	270.6	24	5.9	2936	723.5	405,813
Gladwin County	7	27.5	0	-	62	243.6	25,449
Gogebic County	1	7.2	0	-	29	207.5	13,975
Grand Traverse County	39	41.9	6	6.4	271	291.1	93,088
Gratiot County	19	46.7	0	-	129	316.9	40,711
Hillsdale County	36	78.9	0	-	95	208.3	45,605
Houghton County	4	11.2	0	-	61	170.9	35,684
Huron County	4	12.9	0	-	48	154.9	30,981
Ingham County	530	181.3	26	8.9	1807	618.0	292,406
Ionia County	32	49.5	5	7.7	174	268.9	64,697
Iosco County	4	15.9	0	-	40	159.2	25,127
Iron County	2	18.1	0	-	26	235.0	11,066
Isabella County	56	80.1	4	5.7	306	437.9	69,872
Jackson County	250	157.7	5	3.2	922	581.7	158,510
Kalamazoo County	1083	408.6	20	7.5	2320	875.3	265,066
Kalkaska County	4	22.2	0	-	26	144.1	18,038
Kent County	1287	195.9	25	3.8	3625	551.8	656,955
Keweenaw County	0	0.0	0	-	3	141.8	2,116
Lake County	5	42.2	0	-	32	270.0	11,853
Lapeer County	33	37.7	1	1.1	173	197.5	87,607
Leelanau County	4	18.4	0	-	34	156.2	21,761

Michigan Gonorrhea, Syphilis, and Chlamydia Cases by County, 2019

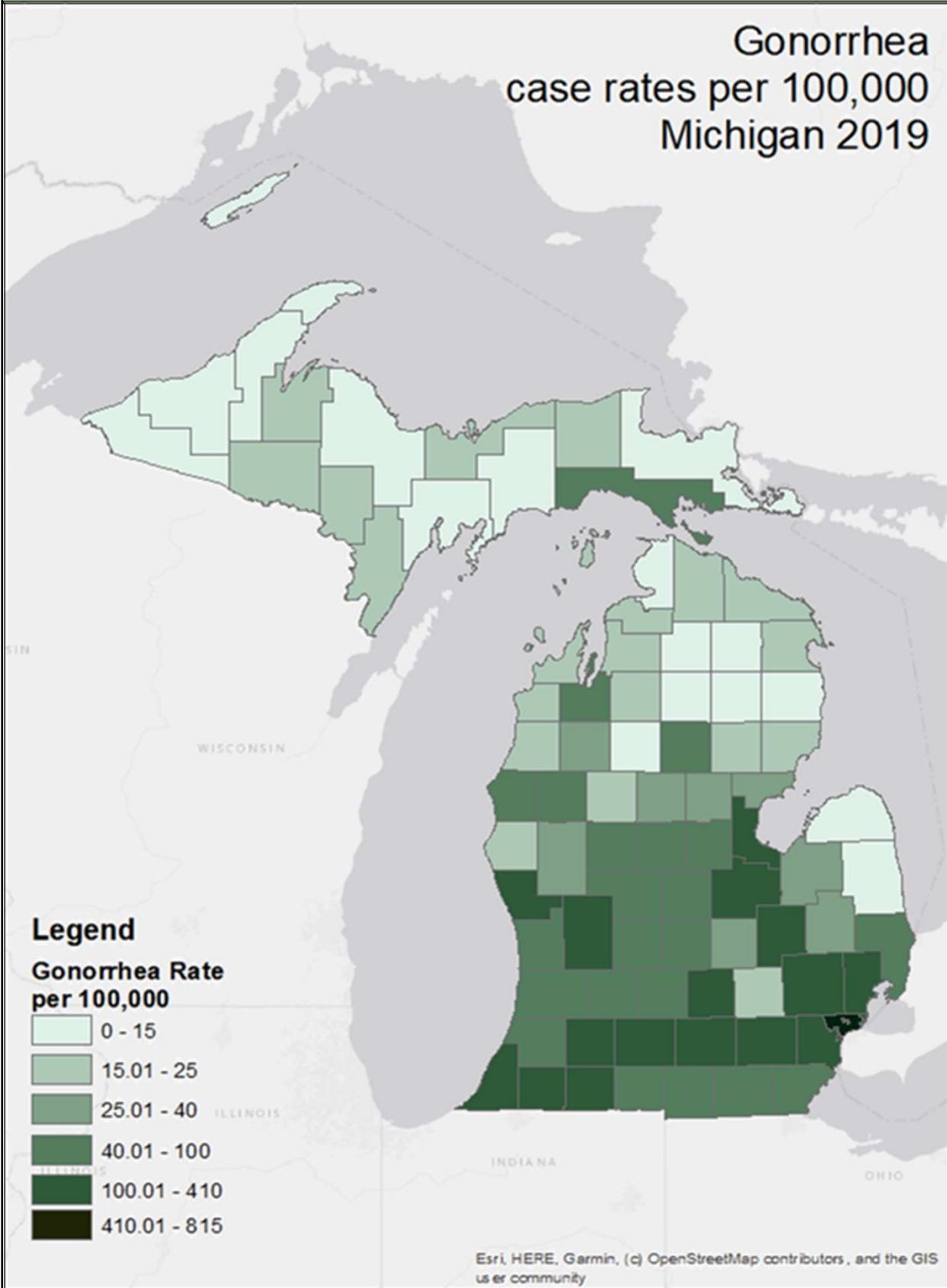
County	Gonorrhea		P&S Syphilis ¹		Chlamydia		2019 Population
	Cases	Rate	Cases	Rate	Cases	Rate	
Lenawee County	83	84.3	1	1.0	266	270.2	98,451
Livingston County	46	24.0	2	1.0	350	182.3	191,995
Luce County	2	32.1	0	-	11	176.6	6,229
Mackinac County	6	55.6	0	-	23	213.0	10,799
Macomb County	1171	134.0	54	6.2	3569	408.4	873,972
Manistee County	5	20.4	0	-	28	114.0	24,558
Marquette County	7	10.5	1	1.5	239	358.3	66,699
Mason County	13	44.6	0	-	70	240.2	29,144
Mecosta County	29	66.7	2	4.6	177	407.3	43,453
Menominee County	4	17.6	0	-	57	250.2	22,780
Midland County	40	48.1	3	3.6	194	233.3	83,156
Missaukee County	0	0.0	0	-	44	291.0	15,118
Monroe County	114	75.7	4	2.7	412	273.8	150,500
Montcalm County	34	53.2	0	-	198	309.9	63,888
Montmorency County	1	10.7	1	10.7	9	96.5	9,328
Muskegon County	572	329.6	1	0.6	1324	762.8	173,566
Newaygo County	17	34.7	0	-	158	322.6	48,980
Oakland County	1281	101.9	88	7.0	4435	352.7	1,257,584
Oceana County	4	15.1	0	-	82	309.8	26,467
Ogemaw County	4	19.1	0	-	24	114.3	20,997
Ontonagon County	0	0.0	0	-	9	157.3	5,720
Osceola County	5	21.3	1	4.3	74	315.4	23,460
Oscoda County	1	12.1	0	-	13	157.7	8,241
Otsego County	1	4.1	2	8.1	43	174.3	24,668
Ottawa County	161	55.2	3	1.0	802	274.8	291,830
Presque Isle County	3	23.8	0	-	19	150.9	12,592
Roscommon County	13	54.1	0	-	46	191.5	24,019
Saginaw County	720	377.9	4	2.1	1293	678.6	190,539
Sanilac County	4	9.7	1	2.4	73	177.3	41,170
Schoolcraft County	1	12.4	0	-	14	173.0	8,094
Shiawassee County	21	30.8	0	-	243	356.7	68,122
St. Clair County	89	55.9	4	2.5	462	290.3	159,128
St. Joseph County	86	141.1	1	1.6	201	329.7	60,964
Tuscola County	18	34.5	0	-	121	231.6	52,245
Van Buren County	72	95.1	2	2.6	274	362.1	75,677
Washtenaw County	574	156.1	24	6.5	1804	490.7	367,601
Wayne County	1383	128.1	89	8.2	4324	400.6	1,079,312
Detroit City	5836	871.0	251	37.5	11145	1663.4	670,031
Wexford County	10	29.7	0	-	102	303.3	33,631
Total	18,264	182.88	685	6.86	50,374	504.40	9,986,857

1 - P&S: Primary and Secondary Syphilis

2 - Rate per 100,000 based on annual Census Bureau estimates from the American Community Survey (ACS)

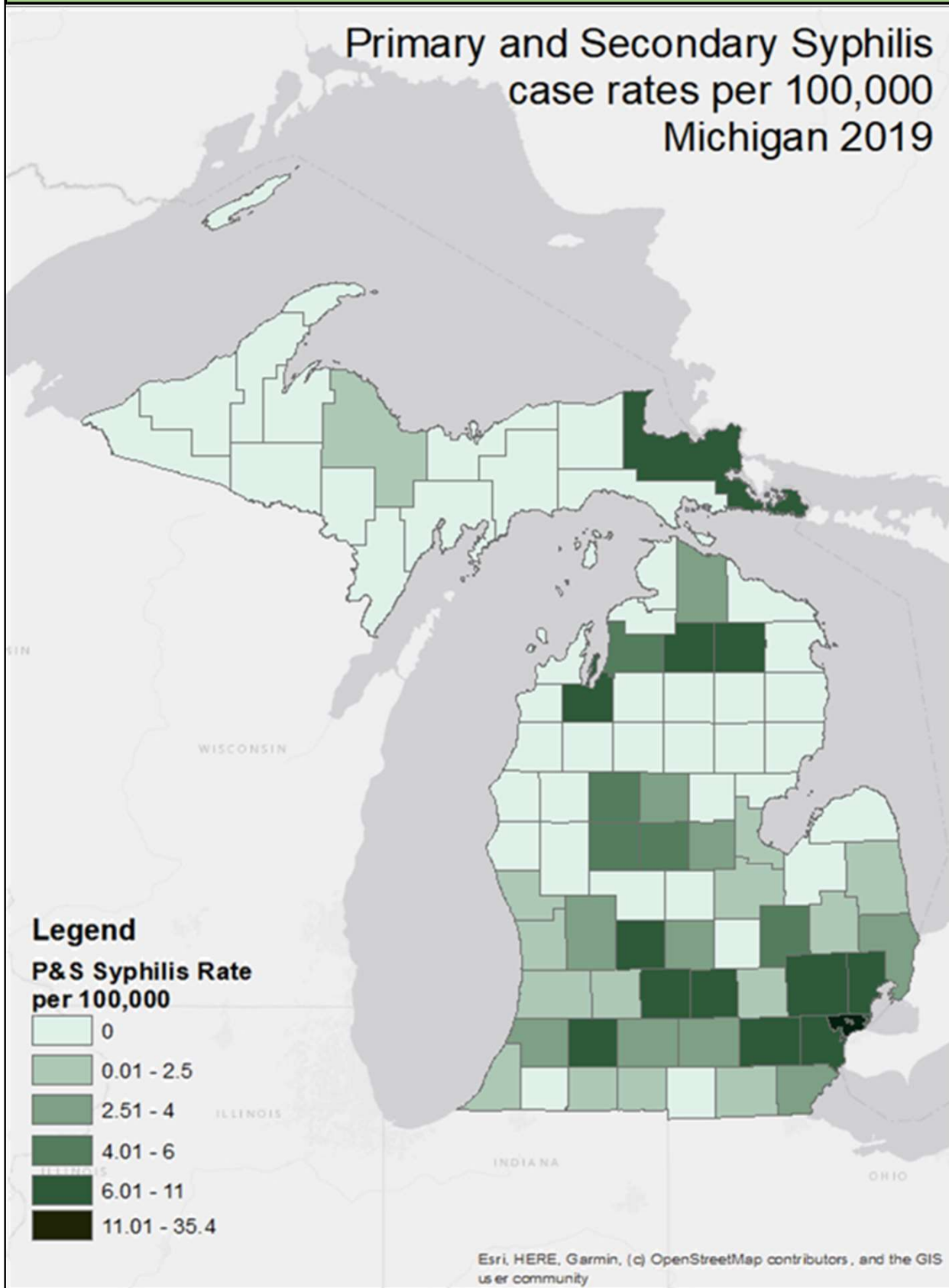
Michigan Gonorrhea Rates by County, 2019

Gonorrhea
case rates per 100,000
Michigan 2019



Michigan P&S Syphilis Rates by County, 2019

Primary and Secondary Syphilis
case rates per 100,000
Michigan 2019



Michigan Chlamydia Rates by County, 2019

Chlamydia
case rates per 100,000
Michigan 2019

