

STI Diagnoses in Michigan, 2015 - 2024

All data as of July 15, 2025

Epidemiology, Quality and Data Section
Bureau of HIV & STI Programs
Michigan Department of Health and Human Services



[HIV & STIs in Michigan](#)
[STI/HIV Operations and
Resource System \(SHOARS\)](#)

Overview

Michigan's Bureau of HIV and STI Programs collects, interprets, and disseminates population level data regarding persons with diagnosed sexually transmitted infections (STI). Data are 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 STIs are chlamydia, gonorrhea, and syphilis. Many STIs are asymptomatic and go undiagnosed. Undiagnosed infections are not reported and are not included in surveillance data or this report.

Key Definitions

The Basics

- New Diagnoses:** The number of cases newly diagnosed over a year. STI reports contain the date of infection, which is based on disease onset date if available; if onset date is missing, diagnosis date is used; if both symptom onset and diagnosis date are missing, date of report to MDHHS is used.
- Diagnosis Rate:** The number who are newly diagnosed with a condition divided by the population and reported as a rate per 100,000 population. Rates reported in this way can be used to directly compare groups in a standardized way by accounting for population size.
- P&S Syphilis:** Primary and secondary (P&S) are the earliest stages of syphilis infection, and are tracked as a proxy measure of incident (or new) infection rather than prevalent 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.
- Latent Syphilis:** Following these symptomatic stages mentioned above, latent syphilis combines early latent, late latent and syphilis of unknown duration. These phases of syphilis are generally free of symptoms, and are considered a phase occurring after progressing through the P&S stages. Though these latent stages of syphilis are often asymptomatic, they can still be infectious and can have long-term health consequences.

Demographics

- Am Indian/AN:** American Indian or Alaska Native.
- Asian/NH/PI:** Asian, Native Hawaiian, or Pacific Islander.
- Multi/Other:** Individuals who report more than one race or a race that is not captured by one of the race categories listed.

The following measures are displayed in this report

- Count:** The number (N) of persons newly diagnosed during the given year.
- Population:** 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 (count/population x 100,000).
- % change (95CI):** Average annual percent change and 95% confidence interval. This measure is only displayed when statistically significant changes are observed ($p < 0.05$). Average annual percent change is calculated by assessing the count offset by the underlying population. *This represents an average change over a one-year period.*

Exposure Factors 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 a female.
Females: females who are not a PWID and reported sex with a male.

Annual Review of STI Trends in Michigan, 2015 - 2024

Methods

Case counts of STIs were aggregated by diagnosis year from the MDSS. Population estimates are drawn from the American Community Survey (ACS) for the given year. Test of trend was calculated using negative binomial regression and trends with $p < 0.05$ were considered statistically significant. Percent annual change and 95% confidence intervals were calculated from this model offset by population for years 2021 to 2024.

Overview

From **2015 to 2024**, **Chlamydia** rates have decreased annually statewide by **2.8%**, (**95% CI [-3.9%, -1.7%]**). This, and all percent changes presented in this report, is an average annual change.

From 2015 to 2020, **Gonorrhea** rates increased by 117% in Michigan, followed by a 42% decrease from 2020 to 2024. Following the peak of the COVID-19 pandemic in 2020, **from 2021-2024** rates decreased annually statewide by **14.6%**, (**95% CI [-18.6%, -10.4%]**).

From **2015 to 2024**, **P&S Syphilis** rates have increased annually statewide by **10%**, (**95% CI [5.4%, 14.7%]**); however, up until 2021, there had been a strong trend of increasing reports, followed by a decrease annually statewide by **11.4%**, (**95% CI [-15.2%, -7.4%]**) **from 2021 to 2024**.

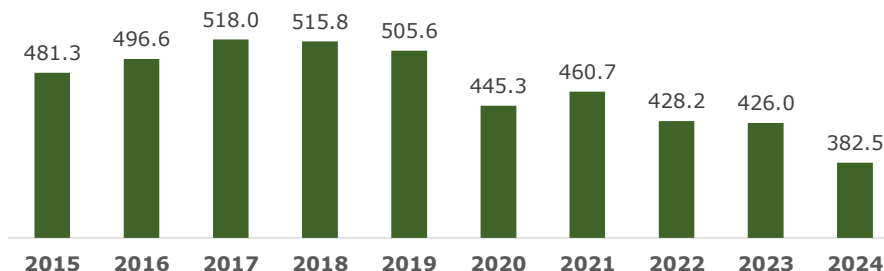
More information:

Additional trend tables follow, which stratify by reported demographic and geographic variables.

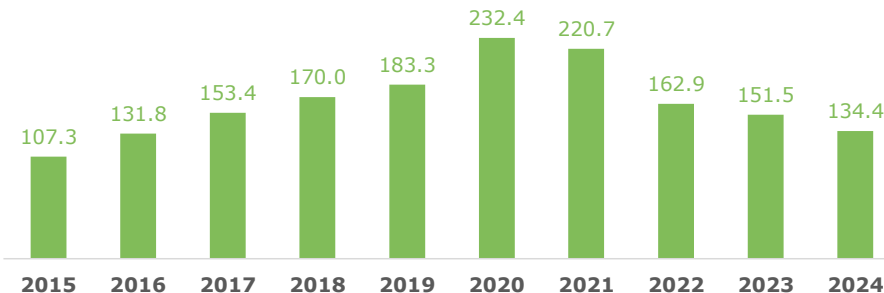
For additional data, visit MDHHS Data & Statistics at michigan.gov/hivsti

Overall trends in rates (per 100,000 population)

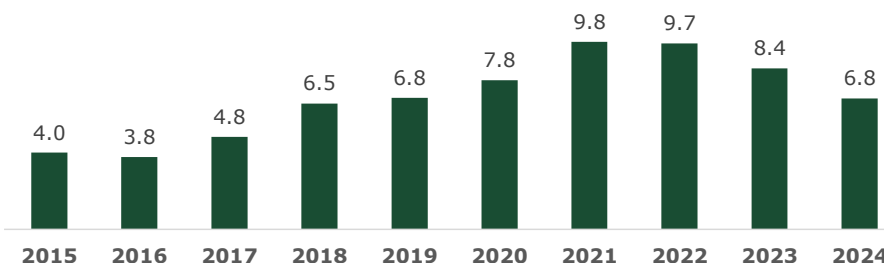
Chlamydia Rate



Gonorrhea Rate



P&S Syphilis Rate



Annual Review of STI Trends in Michigan, 2015 - 2024 - Chlamydia

<i>rates displayed per 100,000 population</i>		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
Michigan Total	<i>count</i>	47,819	49,429	51,682	51,513	50,487	44,851	46,265	43,035	42,957	38,792	-5.5%
	<i>rate</i>	481.4	496.6	518.0	516.1	505.8	445.3	460.7	428.3	426.1	382.5	(-7.1%, -4.0%)

By Age¹

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
Less than 15 years	<i>count</i>	418	445	436	412	414	328	328	343	410	393	8.4%
	<i>rate</i>	23.1	24.8	24.4	23.2	23.5	18.3	18.6	19.6	23.7	22.9	(3.5%, 13.5%)
15-19 years	<i>count</i>	14,002	14,901	15,338	15,302	14,437	12,264	11,979	11,359	11,676	10,768	-3.2%
	<i>rate</i>	2,079.5	2,225.3	2,317.3	2,344.7	2,239.9	1,865.3	1,873.4	1,756.6	1,794.6	1,660.0	(-5.1%, -1.3%)
20-24 years	<i>count</i>	19,059	19,137	19,700	19,153	18,659	16,920	17,398	15,531	14,897	12,807	-9.6%
	<i>rate</i>	2,598.9	2,666.2	2,791.8	2,760.4	2,737.9	2,510.0	2,607.6	2,318.4	2,212.5	1,884.9	(-11.2%, -8.0%)
25-29 years	<i>count</i>	8,139	8,534	9,340	9,479	9,306	8,170	8,385	7,592	7,291	6,545	-6.7%
	<i>rate</i>	1,295.5	1,301.3	1,373.7	1,365.8	1,332.7	1,207.4	1,264.6	1,165.9	1,128.6	1,011.5	(-7.9%, -5.4%)
30-39 years	<i>count</i>	4,508	4,736	5,073	5,312	5,669	5,382	6,147	6,042	6,337	5,981	-2.1%
	<i>rate</i>	386.2	401.4	426.3	442.3	467.1	431.0	484.9	469.9	485.3	449.1	(-3.4%, -0.9%)
40-49 years	<i>count</i>	1,174	1,180	1,238	1,240	1,391	1,210	1,377	1,467	1,619	1,512	No significant change
	<i>rate</i>	94.0	96.4	102.6	104.0	118.0	101.8	117.3	125.2	137.1	126.5	No significant change
50-59 years	<i>count</i>	335	361	398	478	462	439	497	537	543	586	7.9%
	<i>rate</i>	23.0	25.2	28.3	34.7	34.2	32.3	37.1	41.0	42.5	46.9	(3.9%, 12.0%)
60+ years	<i>count</i>	115	104	126	116	139	135	154	164	184	200	7.2%
	<i>rate</i>	5.2	4.6	5.4	4.8	5.7	5.4	6.1	6.4	7.0	7.5	(0.3%, 14.6%)

By Race/Sex¹

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
Am Indian/AN Female	<i>count</i>	149	156	159	190	135	163	161	173	194	131	No significant change
	<i>rate</i>	531.3	553.9	561.8	670.4	473.7	573.9	565.4	605.4	676.1	453.8	No significant change
Am Indian/AN Male	<i>count</i>	45	62	67	59	59	56	69	69	68	61	No significant change
	<i>rate</i>	162.3	222.7	240.0	211.0	210.2	198.4	243.5	242.9	238.7	213.8	No significant change
Asian/NH/PI Female	<i>count</i>	211	266	240	215	262	198	226	221	216	209	-8.8%
	<i>rate</i>	137.0	166.4	145.3	127.6	154.3	115.4	131.0	123.0	113.1	101.7	(-14.1%, -3.2%)
Asian/NH/PI Male	<i>count</i>	86	98	107	113	128	96	119	125	136	127	No significant change
	<i>rate</i>	58.7	63.7	66.8	68.8	77.3	56.8	70.1	70.7	72.7	63.4	No significant change
Black Female	<i>count</i>	11,773	12,044	13,126	12,636	12,399	12,050	12,021	11,496	12,283	11,420	No significant change
	<i>rate</i>	1,627.6	1,667.0	1,816.1	1,747.8	1,715.4	1,652.6	1,654.5	1,586.8	1,695.2	1,569.7	No significant change
Black Male	<i>count</i>	5,911	6,509	7,468	7,510	7,681	7,086	7,245	7,010	7,859	7,085	No significant change
	<i>rate</i>	903.6	995.4	1,142.8	1,150.4	1,177.9	1,066.1	1,095.1	1,064.4	1,194.9	1,074.3	No significant change
Hispanic Female	<i>count</i>	1,193	1,260	1,430	1,345	1,443	1,400	1,757	1,743	1,852	1,719	-3.0%
	<i>rate</i>	497.7	513.5	570.2	524.5	550.1	505.0	623.1	602.9	623.7	562.0	(-5.0%, -0.9%)
Hispanic Male	<i>count</i>	423	512	567	594	635	500	644	723	804	742	No significant change
	<i>rate</i>	171.1	202.0	218.8	224.2	234.3	173.2	219.5	240.6	260.7	233.3	No significant change
Multi/Other Female	<i>count</i>	534.0	917.0	1,082.0	1,565.0	1,607.0	1,475.0	1,629.0	1,331.0	1,278.0	1,398.0	-7.3%
	<i>rate</i>	505.0	846.6	975.4	1,376.4	1,383.5	1,233.0	1,336.9	1,069.6	1,002.9	1,069.4	(-13.3%, -0.9%)
Multi/Other Male	<i>count</i>	181	296	447	715	781	806	957	795	822	926	No significant change
	<i>rate</i>	176.5	280.9	413.2	644.6	687.8	684.7	797.5	646.4	651.8	714.2	No significant change
White Female	<i>count</i>	10,353	10,973	11,470	11,591	10,565	9,672	10,106	8,966	8,292	7,401	-9.5%
	<i>rate</i>	272.6	289.4	302.9	306.7	280.4	257.7	270.8	240.8	223.0	199.0	(-10.4%, -8.7%)
White Male	<i>count</i>	3,701	4,201	4,570	4,500	4,251	3,494	3,853	3,820	3,622	3,074	-6.8%
	<i>rate</i>	99.8	113.4	123.4	121.7	115.3	93.8	104.0	103.4	98.2	83.4	(-10.1%, -3.5%)

1 - Cases with missing data for characteristics were omitted from the respective analyses

Annual Review of STI Trends in Michigan, 2015 - 2024 - Chlamydia

By residence at diagnosis (local health jurisdiction)

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
<i>rates displayed per 100,000 population</i>												
Allegan County	count	323	360	429	389	411	324	317	292	251	229	-11.0%
	rate	283.0	313.0	368.6	332.1	348.2	268.5	261.9	240.8	206.0	187.0	(-15.7%, -6.1%)
Barry-Eaton	count	575	651	573	605	595	578	505	437	410	368	-10.0%
	rate	342.0	385.2	336.7	354.1	346.7	336.4	293.5	253.6	237.1	212.1	(-13.7%, -6.1%)
Bay County	count	321	344	416	419	390	332	395	280	252	234	-15.9%
	rate	304.9	329.4	399.7	404.2	378.8	320.0	383.1	272.5	245.2	228.0	(-21.1%, -10.3%)
Benzie-Leelanau	count	80	85	104	81	66	43	68	55	49	33	-20.1%
	rate	205.0	217.8	264.9	205.5	167.3	106.7	166.4	133.4	118.3	79.7	(-29.5%, -9.4%)
Berrien County	count	847	831	875	972	863	784	913	859	833	709	-7.2%
	rate	546.0	538.0	567.2	631.6	562.8	507.7	594.4	561.2	545.7	464.3	(-10.0%, -4.3%)
Branch-Hillsdale-St. Joseph	count	446	405	421	466	409	394	431	391	428	351	-5.3%
	rate	296.7	270.0	280.9	310.7	273.0	260.0	284.1	258.7	281.0	229.5	(-9.9%, -0.5%)
Calhoun County	count	913	944	995	1,064	947	710	893	750	841	794	No significant change
	rate	679.4	702.7	741.8	794.9	707.7	529.0	666.9	561.9	629.9	593.5	
Central Michigan District ²	count	409	471	596	561	588	518	511	470	415	345	-12.4%
	rate	216.4	249.4	315.6	297.5	312.3	284.4	279.6	256.1	225.3	186.5	(-16.0%, -8.6%)
Chippewa County	count	105	117	104	84	60	68	79	80	115	77	No significant change
	rate	276.3	310.1	275.9	224.5	160.9	184.8	220.3	220.8	316.5	212.4	
Delta-Menominee	count	130	162	132	171	169	77	83	91	65	76	No significant change
	rate	216.9	272.6	224.1	290.8	288.8	127.6	138.0	151.4	110.4	127.2	
Detroit City ³	count	11,556	11,600	11,573	11,000	11,145	9,947	10,005	9,474	10,043	9,241	No significant change
	rate	1,510.3	1,530.4	1,534.5	1,464.3	1,488.9	1,333.9	1,378.1	1,321.1	1,401.9	1,290.0	
Dickinson-Iron	count	90	90	77	93	97	68	87	59	47	36	-25.9%
	rate	243.2	245.2	210.6	254.6	279.1	181.2	232.5	166.0	124.4	95.5	(-34.3%, -16.5%)
District 2 ⁴	count	122	113	155	124	92	111	97	82	72	61	-14.5%
	rate	189.4	175.6	239.9	191.7	141.7	172.4	149.8	125.9	110.0	93.0	(-22.7%, -5.5%)
District 4 ⁵	count	104	134	149	121	133	112	131	95	98	72	-16.5%
	rate	136.4	176.2	196.4	159.3	175.9	146.2	169.8	122.3	125.7	92.4	(-23.7%, -8.7%)
District 10 ⁶	count	809	729	729	707	756	574	603	565	594	516	-4.6%
	rate	309.9	278.6	277.0	267.2	284.8	218.2	227.3	211.2	220.9	191.1	(-8.0%, -1.0%)
Genesee County	count	2,773	2,681	2,823	2,757	2,953	2,787	2,686	2,386	2,429	2,270	-4.6%
	rate	675.4	655.4	692.5	678.0	727.9	686.8	663.7	593.5	604.7	564.3	(-6.8%, -2.4%)
Grand Traverse County	count	277	278	287	276	273	248	231	278	200	137	-17.4%
	rate	302.4	301.9	312.2	298.1	293.4	259.9	240.7	288.6	207.3	141.8	(-28.3%, -4.9%)
Huron County	count	64	57	57	67	50	59	57	49	38	38	-13.4%
	rate	201.5	181.1	182.1	214.8	161.8	188.1	182.0	157.3	122.8	123.5	(-24.0%, -1.3%)

2 - Central Michigan District serves Arenac, Clare, Gladwin, Isabella, Osceola and Roscommon Counties.

3 - Detroit LHD refers to Detroit City and Hamtramck, Highland Park, the Grosse Points and Harper Woods. Wayne LHD covers Western Wayne County for STIs.

4 - District 2 serves Alcona, Iosco, Oscoda and Ogemaw Counties.

5 - District 4 serves Alpena, Cheboygan, Montmorency and Presque Isle Counties.

6 - District 10 serves Crawford, Kalkaska, Lake, Manistee, Mason, Mecosta, Missaukee, Newaygo, Oceana and Wexford Counties.

Annual Review of STI Trends in Michigan, 2015 - 2024 - Chlamydia

By residence at diagnosis (local health jurisdiction)

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
<i>rates displayed per 100,000 population</i>												
Ingham County	<i>count</i>	1,766	2,014	1,921	1,946	1,812	1,676	1,783	1,675	1,522	1,367	-10.5%
	<i>rate</i>	614.8	695.4	658.6	668.1	621.8	588.1	656.3	588.2	529.0	470.7	(-12.5%, -8.5%)
Ionia County	<i>count</i>	181	170	220	230	174	192	201	181	160	127	-13.3%
	<i>rate</i>	282.5	264.7	342.2	357.8	269.1	287.0	300.7	271.1	242.0	191.7	(-19.0%, -7.2%)
Jackson County	<i>count</i>	895	930	846	958	925	692	822	877	745	729	-5.1%
	<i>rate</i>	561.7	587.3	533.2	604.1	584.1	431.9	513.2	548.7	466.1	455.0	(-9.1%, -0.9%)
Kalamazoo County	<i>count</i>	2,136	2,181	2,303	2,356	2,332	1,931	1,895	1,673	1,764	1,734	No significant change
	<i>rate</i>	822.1	833.8	874.4	888.7	878.2	737.5	727.3	640.0	670.0	654.9	No significant change
Kent County	<i>count</i>	3,825	3,538	4,180	4,018	3,625	3,340	3,831	3,710	3,660	3,142	-6.6%
	<i>rate</i>	600.2	549.2	643.4	614.7	551.9	507.2	581.4	562.0	550.3	466.9	(-9.3%, -3.9%)
Lapeer County	<i>count</i>	165	143	163	186	178	148	169	141	108	145	No significant change
	<i>rate</i>	186.7	162.1	184.8	211.4	202.7	167.1	190.6	159.0	121.3	162.6	No significant change
Lenawee County	<i>count</i>	284	300	309	290	266	245	240	225	198	139	-14.9%
	<i>rate</i>	288.5	304.3	313.7	295.6	270.0	246.7	242.2	228.9	202.8	142.2	(-20.2%, -9.2%)
Livingston County	<i>count</i>	367	386	379	375	351	299	315	232	254	235	-8.2%
	<i>rate</i>	196.0	204.7	199.6	196.1	182.8	154.1	161.3	118.3	129.1	119.3	(-14.7%, -1.1%)
Luce-Mack-Alger-School	<i>count</i>	39	73	79	65	56	46	57	46	51	34	-13.4%
	<i>rate</i>	112.6	213.9	230.4	189.8	165.2	134.8	169.1	134.5	149.0	99.0	(-23.9%, -1.4%)
Macomb County	<i>count</i>	2,726	3,232	3,548	3,590	3,578	3,046	3,306	3,102	3,150	2,855	-4.5%
	<i>rate</i>	315.1	372.2	407.4	411.7	410.1	346.0	376.6	354.2	358.3	322.2	(-6.2%, -2.8%)
Marquette County	<i>count</i>	212	277	268	320	240	208	190	145	150	107	-16.1%
	<i>rate</i>	314.7	416.1	402.9	481.9	359.9	312.6	286.7	216.1	221.7	157.4	(-22.0%, -9.7%)
Mid-Michigan District ⁷	<i>count</i>	493	550	536	596	581	501	527	463	424	345	-13.0%
	<i>rate</i>	272.2	302.9	292.8	324.5	315.8	267.2	280.2	246.1	223.5	180.9	(-16.6%, -9.3%)
Midland County	<i>count</i>	160	214	221	198	195	164	152	155	173	135	No significant change
	<i>rate</i>	191.1	256.3	264.9	237.3	233.8	196.4	182.0	185.1	205.9	160.7	No significant change
Monroe County	<i>count</i>	409	400	369	380	412	407	333	378	340	248	No significant change
	<i>rate</i>	273.7	268.0	246.8	253.0	273.9	262.7	214.1	243.2	218.5	158.9	No significant change

7 - Mid-Michigan District serves Clinton, Gratiot and Montcalm Counties.

Annual Review of STI Trends in Michigan, 2015 - 2024 - Chlamydia

By residence at diagnosis (local health jurisdiction)

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
<i>rates displayed per 100,000 population</i>												
Muskegon County	<i>count</i>	1,344	1,310	1,425	1,312	1,336	1,336	1,364	1,253	1,290	1,151	-5.1%
	<i>rate</i>	779.1	755.7	819.9	755.2	769.4	764.3	776.8	713.9	731.0	648.7	(-7.4%, -2.7%)
Northwest MI Com Hlth Agency ⁸	<i>count</i>	190	238	284	214	218	178	207	212	184	137	-12.5%
	<i>rate</i>	178.6	223.2	265.1	199.2	202.7	163.7	188.7	192.4	166.7	123.8	(-18.4%, -6.1%)
Oakland County	<i>count</i>	3,942	4,198	4,214	4,526	4,443	3,924	3,956	3,699	3,755	3,209	-6.6%
	<i>rate</i>	316.7	335.4	335.4	359.9	353.3	308.4	310.8	290.1	292.9	247.4	(-9.3%, -3.8%)
Ottawa County	<i>count</i>	854	855	974	924	804	808	1,006	770	720	711	-11.5%
	<i>rate</i>	304.0	301.4	340.0	319.1	275.9	272.1	337.1	255.9	237.2	232.2	(-16.5%, -6.2%)
Saginaw County	<i>count</i>	1,264	1,137	1,340	1,484	1,306	1,243	1,249	1,198	1,049	1,094	-4.9%
	<i>rate</i>	653.6	590.2	697.9	777.6	685.6	654.6	659.0	635.8	558.7	582.8	(-7.7%, -2.0%)
Sanilac County	<i>count</i>	95	86	96	81	73	72	51	43	44	29	-14.3%
	<i>rate</i>	229.1	207.5	232.7	196.4	177.1	177.8	125.8	106.1	108.8	72.0	(-25.3%, -1.7%)
Shiawassee County	<i>count</i>	199	210	217	197	246	170	156	131	110	87	-17.3%
	<i>rate</i>	290.3	306.2	317.1	289.4	361.4	250.0	229.4	192.7	161.8	128.0	(-23.8%, -10.4%)
St Clair County	<i>count</i>	401	444	479	498	463	364	336	361	349	303	No significant change
	<i>rate</i>	251.0	278.4	301.0	312.8	290.6	226.9	209.7	225.8	217.7	189.0	No significant change
Tuscola County	<i>count</i>	127	148	147	136	121	114	98	93	90	56	-14.1%
	<i>rate</i>	236.4	277.9	278.3	258.1	231.1	213.8	184.8	175.7	170.3	106.1	(-22.2%, -5.2%)
Van Buren-Cass	<i>count</i>	374	384	442	467	488	373	396	377	384	405	No significant change
	<i>rate</i>	295.8	303.3	348.5	384.6	382.9	293.4	311.3	296.6	301.2	317.2	No significant change
Washtenaw County	<i>count</i>	1,648	1,778	1,693	1,727	1,804	1,567	1,452	1,397	1,283	1,155	-8.2%
	<i>rate</i>	453.3	484.5	457.9	466.1	489.9	421.4	397.8	379.7	346.4	308.9	(-10.3%, -5.9%)
Wayne County ⁹	<i>count</i>	3,671	4,063	4,412	4,373	4,330	3,939	3,956	3,708	3,744	3,478	-3.7%
	<i>rate</i>	367.2	405.1	439.6	435.3	432.3	377.3	377.1	354.5	357.9	329.8	(-5.0%, -2.3%)
Western UP District ¹⁰	<i>count</i>	107	118	122	109	133	134	125	97	76	48	-25.9%
	<i>rate</i>	156.1	172.8	179.4	162.0	204.6	198.2	183.5	141.7	111.2	70.2	(-32.8%, -18.3%)

8 - Northwest MI Com Hlth Agency serves Antrim, Charlevoix, Emmet and Otsego Counties.

9 - Excludes the City of Detroit

10 - Western UP District serves Baraga, Gogebic, Houghton, Keweenaw and Ontonagon Counties.

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<i>rates displayed per 100,000 population</i>		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
Michigan Total	<i>count</i>	10,656	13,115	15,309	16,977	18,306	23,411	22,166	16,374	15,277	13,625	-14.6%
	<i>rate</i>	107.3	131.8	153.4	170.1	183.4	232.4	220.7	162.9	151.5	134.4	(-18.6%, -10.4%)

By Age¹

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
Less than 15 years	<i>count</i>	84	115	108	112	96	113	121	117	140	116	No significant change
	<i>rate</i>	4.6	6.4	6.0	6.3	5.4	6.3	6.9	6.7	8.1	6.7	
15-19 years	<i>count</i>	2,277	2,800	3,241	3,510	3,487	4,063	3,665	3,076	3,184	2,578	-10.0%
	<i>rate</i>	338.2	418.1	489.7	537.8	541.0	618.0	573.2	475.7	489.4	397.4	(-14.0%, -5.8%)
20-24 years	<i>count</i>	3,757	4,181	4,667	4,971	5,403	6,802	6,123	4,340	3,975	3,422	-17.3%
	<i>rate</i>	512.3	582.5	661.4	716.4	792.8	1,009.1	917.7	647.9	590.4	503.6	(-21.5%, -12.9%)
25-29 years	<i>count</i>	2,145	2,859	3,377	3,663	4,124	5,292	4,785	3,178	2,782	2,453	-18.6%
	<i>rate</i>	341.4	436.0	496.7	527.8	590.6	782.1	721.7	488.0	430.6	379.1	(-23.5%, -13.4%)
30-39 years	<i>count</i>	1,494	2,045	2,450	2,997	3,330	4,752	5,008	3,707	3,354	3,203	-15.1%
	<i>rate</i>	128.0	173.3	205.9	249.5	274.4	380.6	395.1	288.3	256.9	240.5	(-19.9%, -10.0%)
40-49 years	<i>count</i>	527	696	889	1,084	1,143	1,480	1,588	1,187	1,195	1,131	-10.4%
	<i>rate</i>	42.2	56.9	73.7	90.9	97.0	124.5	135.2	101.3	101.2	94.6	(-15.6%, -5.0%)
50-59 years	<i>count</i>	277	320	428	487	515	680	643	549	467	482	-7.7%
	<i>rate</i>	19.0	22.3	30.4	35.4	38.1	50.1	48.0	41.9	36.5	38.6	(-11.2%, -4.1%)
60+ years	<i>count</i>	84	89	138	152	206	226	233	219	180	240	No significant change
	<i>rate</i>	3.8	3.9	5.9	6.3	8.4	9.1	9.2	8.5	6.9	9.0	

By Race/Sex¹

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
Am Indian/AN Female	<i>count</i>	9	21	22	32	27	44	49	40	29	27	-19.8%
	<i>rate</i>	32.1	74.6	77.7	112.9	94.7	154.9	172.1	140.0	101.1	93.5	(-30.9%, -6.9%)
Am Indian/AN Male	<i>count</i>	10	20	16	24	28	34	48	35	11	23	-27.6%
	<i>rate</i>	36.1	71.8	57.3	85.8	99.8	120.5	169.4	123.2	38.6	80.6	(-45.2%, -4.3%)
Asian/NH/PI Female	<i>count</i>	18	29	24	25	33	31	32	29	27	25	No significant change
	<i>rate</i>	11.7	18.1	14.5	14.8	19.4	18.1	18.5	16.1	14.1	12.2	
Asian/NH/PI Male	<i>count</i>	23	29	48	56	53	40	65	63	60	72	No significant change
	<i>rate</i>	15.7	18.8	30.0	34.1	32.0	23.7	38.3	35.6	32.1	35.9	
Black Female	<i>count</i>	2,952	3,519	4,064	4,237	4,645	6,109	5,635	4,218	4,057	3,528	-13.6%
	<i>rate</i>	408.1	487.1	562.3	586.1	642.6	837.8	775.6	582.2	559.9	484.9	(-17.5%, -9.6%)
Black Male	<i>count</i>	3,103	3,791	4,733	5,242	5,830	7,432	6,813	5,477	5,427	4,851	-9.8%
	<i>rate</i>	474.3	579.8	724.3	803.0	894.0	1,118.1	1,029.8	831.7	825.1	735.6	(-13.0%, -6.4%)
Hispanic Female	<i>count</i>	161	200	233	236	303	440	448	362	358	282	-15.6%
	<i>rate</i>	67.2	81.5	92.9	92.0	115.5	158.7	158.9	125.2	120.6	92.2	(-19.5%, -11.6%)
Hispanic Male	<i>count</i>	113	161	213	245	268	306	336	326	354	384	No significant change
	<i>rate</i>	45.7	63.5	82.2	92.5	98.9	106.0	114.5	108.5	114.8	120.8	
Multi/Other Female	<i>count</i>	61	91	188	265	327	485	436	244	217	188	-25.8%
	<i>rate</i>	57.7	84.0	169.5	233.1	281.5	405.4	357.8	196.1	170.3	143.8	(-33.3%, -17.4%)
Multi/Other Male	<i>count</i>	58	85	162	320	406	562	547	328	336	369	-13.8%
	<i>rate</i>	56.6	80.7	149.7	288.5	357.6	477.4	455.9	266.7	266.4	284.6	(-24.7%, -1.4%)
White Female	<i>count</i>	1,016	1,376	1,740	2,140	2,104	2,887	2,990	2,045	1,645	1,472	-20.9%
	<i>rate</i>	13.5	18.4	23.2	28.6	28.2	38.6	40.2	27.6	22.2	19.9	(-25.3%, -16.2%)
White Male	<i>count</i>	874	1,203	1,472	1,618	1,584	1,932	2,039	1,682	1,573	1,522	-9.0%
	<i>rate</i>	23.6	32.5	39.7	43.8	43.0	51.9	55.0	45.5	42.6	41.3	(-12.1%, -5.7%)

¹ - Cases with missing data for characteristics were omitted from the respective analyses

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		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
<i>rates displayed per 100,000 population</i>												
Allegan County	count	33	41	62	77	110	109	106	95	80	45	-22.2%
	rate	28.9	35.6	53.3	65.7	93.2	90.3	87.6	78.3	65.6	36.8	(-29.7%, -14.0%)
Barry-Eaton	count	98	144	110	155	141	218	196	166	144	115	-16.1%
	rate	58.3	85.2	64.6	90.7	82.2	126.9	113.9	96.3	83.3	66.3	(-21.9%, -10.0%)
Bay County	count	49	52	108	91	106	99	136	84	42	46	-34.5%
	rate	46.5	49.8	103.8	87.8	102.9	95.4	131.9	81.7	40.9	44.8	(-44.5%, -23.0%)
Benzie-Leelanau	count	4	3	2	7	7	5	17	11	10	5	-30.3%
	rate	10.3	7.7	5.1	17.8	17.7	12.4	41.6	26.7	24.1	12.1	(-47.4%, -8.0%)
Berrien County	count	206	276	285	383	303	407	531	462	185	167	-35.4%
	rate	132.8	178.7	184.7	248.9	197.6	263.6	345.7	301.8	121.2	109.4	(-44.8%, -24.0%)
Branch-Hillsdale-St. Joseph	count	24	46	54	119	165	218	242	98	102	84	-28.4%
	rate	16.0	30.7	36.0	79.3	110.1	143.8	159.5	64.8	67.0	54.9	(-40.3%, -14.0%)
Calhoun County	count	173	225	362	432	471	471	537	363	288	284	-19.7%
	rate	128.7	167.5	269.9	322.7	352.0	350.9	401.0	272.0	215.7	212.3	(-25.8%, -13.0%)
Central Michigan District ²	count	30	41	66	67	96	125	116	92	71	76	-15.2%
	rate	15.9	21.7	35.0	35.5	51.0	68.6	63.5	50.1	38.5	41.1	(-22.8%, -7.0%)
Chippewa County	count	1	2	3	5	4	7	12	9	4	3	-38.8%
	rate	2.6	5.3	8.0	13.4	10.7	19.0	33.5	24.8	11.0	8.3	(-57.5%, -12.0%)
Delta-Menominee	count	8	11	9	7	9	5	4	4	10	7	No significant change
	rate	13.4	18.5	15.3	11.9	15.4	8.3	6.6	6.7	17.0	11.7	No significant change
Detroit City ³	count	3,505	4,263	4,795	5,149	5,831	7,001	6,152	4,384	4,639	4,076	-10.9%
	rate	458.1	562.4	635.8	685.4	779.0	938.8	847.4	611.3	647.6	569.0	(-16.8%, -5.0%)
Dickinson-Iron	count	1	11	7	3	6	4	6	4	3	2	No significant change
	rate	2.7	30.0	19.1	8.2	17.3	10.7	16.0	11.3	7.9	5.3	No significant change
District 2 ⁴	count	5	7	14	16	9	13	11	4	6	6	No significant change
	rate	7.8	10.9	21.7	24.7	13.9	20.2	17.0	6.1	9.2	9.2	No significant change
District 4 ⁵	count	0	3	7	11	17	16	14	7	5	12	No significant change
	rate	0.0	3.9	9.2	14.5	22.5	20.9	18.1	9.0	6.4	15.4	No significant change
District 10 ⁶	count	48	64	67	83	89	151	167	101	87	57	-29.7%
	rate	18.4	24.5	25.5	31.4	33.5	57.4	63.0	37.8	32.3	21.1	(-35.9%, -23.0%)
Genesee County	count	888	991	965	888	1,102	1,710	1,721	1,269	897	925	-19.6%
	rate	216.3	242.3	236.7	218.4	271.6	421.4	425.2	315.6	223.3	229.9	(-25.8%, -13.0%)
Grand Traverse County	count	10	13	21	1	39	41	48	27	22	21	-26.0%
	rate	10.9	14.1	22.8	1.1	41.9	43.0	50.0	28.0	22.8	21.7	(-37.5%, -12.0%)
Huron County	count	5	3	8	3	4	10	8	7	4	7	No significant change
	rate	15.7	9.5	25.6	9.6	12.9	31.9	25.5	22.5	12.9	22.7	No significant change

2 - Central Michigan District serves Arenac, Clare, Gladwin, Isabella, Osceola and Roscommon Counties.

3 - Detroit LHD refers to Detroit City and Hamtramck, Highland Park, the Grosse Points and Harper Woods. Wayne LHD covers Western Wayne County for STIs.

4 - District 2 serves Alcona, Iosco, Oscoda and Ogemaw Counties.

5 - District 4 serves Alpena, Cheboygan, Montmorency and Presque Isle Counties.

6 - District 10 serves Crawford, Kalkaska, Lake, Manistee, Mason, Mecosta, Missaukee, Newaygo, Oceana and Wexford Counties.

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		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
<i>rates displayed per 100,000 population</i>												
Ingham County	<i>count</i>	474	676	557	596	536	921	977	781	623	523	-21.0%
	<i>rate</i>	165.0	233.4	191.0	204.6	183.9	323.1	359.6	274.3	216.5	180.1	(-23.6%, -18.0%)
Ionia County	<i>count</i>	16	15	23	18	32	54	90	31	17	31	-31.6%
	<i>rate</i>	25.0	23.4	35.8	28.0	49.5	80.7	134.6	46.4	25.7	46.8	(-50.2%, -6.0%)
Jackson County	<i>count</i>	82	66	148	232	251	375	426	277	202	172	-27.4%
	<i>rate</i>	51.5	41.7	93.3	146.3	158.5	234.0	265.9	173.3	126.4	107.3	(-31.7%, -23.0%)
Kalamazoo County	<i>count</i>	657	655	851	1,026	1,093	1,226	1,085	856	710	598	-18.6%
	<i>rate</i>	252.9	250.4	323.1	387.0	411.6	468.3	416.4	327.4	269.7	225.8	(-21.1%, -16.0%)
Kent County	<i>count</i>	757	772	1,108	1,375	1,286	1,947	1,826	1,358	1,237	1,096	-15.9%
	<i>rate</i>	118.8	119.8	170.5	210.4	195.8	295.7	277.1	205.7	186.0	162.9	(-19.5%, -12.0%)
Lapeer County	<i>count</i>	12	13	27	27	33	41	38	16	13	23	No significant change
	<i>rate</i>	13.6	14.7	30.6	30.7	37.6	46.3	42.9	18.0	14.6	25.8	No significant change
Lenawee County	<i>count</i>	18	54	47	44	83	112	74	96	63	48	No significant change
	<i>rate</i>	18.3	54.8	47.7	44.8	84.2	112.8	74.7	97.7	64.5	49.1	No significant change
Livingston County	<i>count</i>	35	25	44	49	46	67	49	42	45	52	No significant change
	<i>rate</i>	18.7	13.3	23.2	25.6	24.0	34.5	25.1	21.4	22.9	26.4	No significant change
Luce-Mack-Alger-School	<i>count</i>	0	3	10	8	10	1	6	5	8	2	No significant change
	<i>rate</i>	0.0	8.8	29.2	23.4	29.5	2.9	17.8	14.6	23.4	5.8	No significant change
Macomb County	<i>count</i>	518	814	920	1,103	1,174	1,434	1,401	973	1,068	966	-10.3%
	<i>rate</i>	59.9	93.7	105.6	126.5	134.6	162.9	159.6	111.1	121.5	109.0	(-17.3%, -3.0%)
Marquette County	<i>count</i>	8	8	8	6	7	12	17	7	28	17	No significant change
	<i>rate</i>	11.9	12.0	12.0	9.0	10.5	18.0	25.6	10.4	41.4	25.0	No significant change
Mid-Michigan District ⁷	<i>count</i>	38	67	69	86	100	156	162	92	101	65	-24.0%
	<i>rate</i>	21.0	36.9	37.7	46.8	54.3	83.2	86.1	48.9	53.2	34.1	(-32.6%, -14.0%)
Midland County	<i>count</i>	11	26	46	26	40	40	35	31	19	21	-18.8%
	<i>rate</i>	13.1	31.1	55.1	31.2	48.0	47.9	41.9	37.0	22.6	25.0	(-31.7%, -3.0%)
Monroe County	<i>count</i>	54	72	82	99	114	173	70	81	69	56	No significant change
	<i>rate</i>	36.1	48.2	54.8	65.9	75.8	111.7	45.0	52.1	44.3	35.9	No significant change

7 - Mid-Michigan District serves Clinton, Gratiot and Montcalm Counties.

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		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
<i>rates displayed per 100,000 population</i>												
Muskegon County	<i>count</i>	411	496	560	608	577	680	775	522	641	445	-14.0%
	<i>rate</i>	238.3	286.1	322.2	350.0	332.3	389.0	441.4	297.4	363.2	250.8	(-23.1%, -4.0%)
Northwest MI Com Hlth Agency ⁸	<i>count</i>	10	4	10	20	12	23	31	17	16	10	-30.4%
	<i>rate</i>	9.4	3.8	9.3	18.6	11.2	21.2	28.3	15.4	14.5	9.0	(-43.8%, -14.0%)
Oakland County	<i>count</i>	734	1,026	1,142	1,327	1,293	1,709	1,531	1,235	1,313	1,185	-7.6%
	<i>rate</i>	59.0	82.0	90.9	105.5	102.8	134.3	120.3	96.9	102.4	91.4	(-11.8%, -3.0%)
Ottawa County	<i>count</i>	82	115	135	182	160	201	258	152	168	132	-18.8%
	<i>rate</i>	29.2	40.5	47.1	62.9	54.9	67.7	86.5	50.5	55.3	43.1	(-27.4%, -9.0%)
Saginaw County	<i>count</i>	362	410	392	547	724	749	655	659	488	454	-12.7%
	<i>rate</i>	187.2	212.8	204.2	286.6	380.1	394.5	345.6	349.7	259.9	241.9	(-17.7%, -8.0%)
Sanilac County	<i>count</i>	4	4	9	9	4	11	20	6	5	11	No significant change
	<i>rate</i>	9.6	9.7	21.8	21.8	9.7	27.2	49.3	14.8	12.4	27.3	
Shiawassee County	<i>count</i>	20	20	26	24	21	56	68	26	19	25	-30.0%
	<i>rate</i>	29.2	29.2	38.0	35.3	30.9	82.3	100.0	38.3	27.9	36.8	(-45.7%, -10.0%)
St Clair County	<i>count</i>	35	74	56	72	89	142	158	61	82	50	-28.2%
	<i>rate</i>	21.9	46.4	35.2	45.2	55.9	88.5	98.6	38.2	51.2	31.2	(-41.9%, -11.0%)
Tuscola County	<i>count</i>	8	13	21	19	18	18	11	11	11	8	No significant change
	<i>rate</i>	14.9	24.4	39.8	36.1	34.4	33.8	20.7	20.8	20.8	15.2	
Van Buren-Cass	<i>count</i>	53	48	121	143	127	155	141	174	84	87	-20.0%
	<i>rate</i>	41.9	37.9	95.4	117.8	99.7	121.9	110.8	136.9	65.9	68.1	(-33.3%, -4.0%)
Washtenaw County	<i>count</i>	345	416	569	524	574	619	528	436	369	421	-8.9%
	<i>rate</i>	94.9	113.4	153.9	141.4	155.9	166.5	144.6	118.5	99.6	112.6	(-15.5%, -2.0%)
Wayne County ⁹	<i>count</i>	813	1,018	1,373	1,260	1,386	1,873	1,699	1,233	1,269	1,182	-10.2%
	<i>rate</i>	81.3	101.5	136.8	125.4	138.4	179.4	161.9	117.9	121.3	112.1	(-16.0%, -4.0%)
Western UP District ¹⁰	<i>count</i>	11	9	10	11	7	6	11	9	10	7	No significant change
	<i>rate</i>	16.1	13.2	14.7	16.3	10.8	8.9	16.2	13.2	14.6	10.2	

8 - Northwest MI Com Hlth Agency serves Antrim, Charlevoix, Emmet and Otsego Counties.

9 - Excludes the City of Detroit

10 - Western UP District serves Baraga, Gogebic, Houghton, Keweenaw and Ontonagon Counties.

Annual Review of STI Trends in Michigan, 2015 - 2024 - P&S Syphilis

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
<i>rates displayed per 100,000 population</i>												
Michigan Total	<i>count</i>	397	375	480	654	683	782	980	972	845	691	-11.4%
	<i>rate</i>	4.0	3.8	4.8	6.6	6.8	7.8	9.8	9.7	8.4	6.8	(-15.2%, -7.4%)

By Age¹

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
Less than 15 years	<i>count</i>	0	0	2	2	1	0	1	0	0	1	No significant change
	<i>rate</i>	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.1	No significant change
15-19 years	<i>count</i>	27	31	39	29	33	29	41	48	32	28	-14.2%
	<i>rate</i>	4.0	4.6	5.9	4.4	5.1	4.4	6.4	7.4	4.9	4.3	(-25.8%, -0.8%)
20-24 years	<i>count</i>	79	95	103	129	102	121	168	129	112	82	-20.8%
	<i>rate</i>	10.8	13.2	14.6	18.6	15.0	17.9	25.2	19.3	16.6	12.1	(-26.9%, -14.1%)
25-29 years	<i>count</i>	111	94	107	158	164	175	185	166	167	117	-11.2%
	<i>rate</i>	17.7	14.3	15.7	22.8	23.5	25.9	27.9	25.5	25.8	18.1	(-17.3%, -4.7%)
30-39 years	<i>count</i>	97	72	105	169	190	223	306	328	304	266	-6.4%
	<i>rate</i>	8.3	6.1	8.8	14.1	15.7	17.9	24.1	25.5	23.3	20.0	(-11.1%, -1.5%)
40-49 years	<i>count</i>	46	41	77	94	105	119	146	160	135	112	-9.4%
	<i>rate</i>	3.7	3.3	6.4	7.9	8.9	10.0	12.4	13.7	11.4	9.4	(-16.0%, -2.4%)
50-59 years	<i>count</i>	33	30	36	53	64	85	88	97	73	53	-13.3%
	<i>rate</i>	2.3	2.1	2.6	3.9	4.7	6.3	6.6	7.4	5.7	4.2	(-22.2%, -3.4%)
60+ years	<i>count</i>	4	12	11	20	24	30	45	44	22	32	-17.4%
	<i>rate</i>	0.2	0.5	0.5	0.8	1.0	1.2	1.8	1.7	0.8	1.2	(-30.3%, -2.1%)

By Race/Sex¹

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
Am Indian/AN Female	<i>count</i>	0	0	0	2	1	2	2	1	1	0	No significant change
	<i>rate</i>	0.0	0.0	0.0	7.1	3.5	7.0	7.0	3.5	3.5	0.0	No significant change
Am Indian/AN Male	<i>count</i>	1	1	2	3	3	4	3	2	3	5	No significant change
	<i>rate</i>	3.6	3.6	7.2	10.7	10.7	14.2	10.6	7.0	10.5	17.5	No significant change
Asian/NH/PI Female	<i>count</i>	0	0	1	0	0	0	1	0	2	0	No significant change
	<i>rate</i>	0.0	0.0	0.6	0.0	0.0	0.0	0.6	0.0	1.0	0.0	No significant change
Asian/NH/PI Male	<i>count</i>	4	4	5	11	7	8	14	9	8	7	-25.8%
	<i>rate</i>	2.7	2.6	3.1	6.7	4.2	4.7	8.2	5.1	4.3	3.5	(-44.6%, -0.7%)
Black Female	<i>count</i>	26	19	17	38	49	70	126	114	87	57	-22.0%
	<i>rate</i>	3.6	2.6	2.4	5.3	6.8	9.6	17.3	15.7	12.0	7.8	(-29.0%, -14.3%)
Black Male	<i>count</i>	206	168	210	306	320	398	499	436	337	284	-17.5%
	<i>rate</i>	31.5	25.7	32.1	46.9	49.1	59.9	75.4	66.2	51.2	43.1	(-21.1%, -13.7%)
Hispanic Female	<i>count</i>	0	2	0	6	7	4	4	7	8	6	No significant change
	<i>rate</i>	0.0	0.8	0.0	2.3	2.7	1.4	1.4	2.4	2.7	2.0	No significant change
Hispanic Male	<i>count</i>	15	26	34	31	39	30	37	54	56	34	No significant change
	<i>rate</i>	6.1	10.3	13.1	11.7	14.4	10.4	12.6	18.0	18.2	10.7	No significant change
Multi/Other Female	<i>count</i>	0	0	0	2	0	0	3	1	2	5	No significant change
	<i>rate</i>	0.0	0.0	0.0	1.8	0.0	0.0	2.5	0.8	1.6	3.8	No significant change
Multi/Other Male	<i>count</i>	6	2	4	8	7	17	14	10	9	15	No significant change
	<i>rate</i>	5.9	1.9	3.7	7.2	6.2	14.4	11.7	8.1	7.1	11.6	No significant change
White Female	<i>count</i>	8	11	14	21	38	36	70	82	80	88	No significant change
	<i>rate</i>	0.2	0.3	0.4	0.6	1.0	1.0	1.9	2.2	2.2	2.4	No significant change
White Male	<i>count</i>	131	138	192	226	209	210	200	241	243	178	No significant change
	<i>rate</i>	3.5	3.7	5.2	6.1	5.7	5.6	5.4	6.5	6.6	4.8	No significant change

1 - Cases with missing data for characteristics were omitted from the respective analyses

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By Exposure Factor (population denominators not available)

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
Het Female	count	30	31	25	56	83	100	177	170	152	123	-11.0%
	(Women who have sex with men)											(-17.0%, -4.4%)
Het Male	count	49	42	63	110	166	214	277	258	212	159	-16.3%
	(Men who have sex with women only)											(-21.3%, -11.0%)
MSM	count	271	269	337	396	344	387	376	379	284	245	-14.3%
	(Men who have sex with men)											(-19.4%, -9.0%)
PWID	count	4	5	7	16	25	16	12	18	11	12	No significant change
	(People who inject drugs)											

By residence at diagnosis (local health jurisdiction)

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
<i>rates displayed per 100,000 population</i>												
Allegan County	count	1	1	4	1	2	3	6	8	2	3	No significant change
	rate	0.9	0.9	3.4	0.9	1.7	2.5	5.0	6.6	1.6	2.5	
Barry-Eaton	count	0	1	3	3	8	7	8	7	13	4	No significant change
	rate	0.0	0.6	1.8	1.8	4.7	4.1	4.6	4.1	7.5	2.3	
Bay County	count	4	0	5	6	1	2	3	3	4	3	No significant change
	rate	3.8	0.0	4.8	5.8	1.0	1.9	2.9	2.9	3.9	2.9	
Benzie-Leelanau	count	0	0	0	2	0	0	0	0	1	0	No significant change
	rate	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	2.4	0.0	
Berrien County	count	3	0	3	8	2	3	4	2	3	8	No significant change
	rate	1.9	0.0	1.9	5.2	1.3	1.9	2.6	1.3	2.0	5.2	
Branch-Hillsdale-St. Joseph	count	1	2	4	1	2	1	5	9	9	14	No significant change
	rate	0.7	1.3	2.7	0.7	1.3	0.7	3.3	6.0	5.9	9.2	
Calhoun County	count	0	1	3	1	5	7	12	13	12	10	No significant change
	rate	0.0	0.7	2.2	0.7	3.7	5.2	9.0	9.7	9.0	7.5	
Central Michigan District ²	count	1	1	3	11	6	3	5	4	2	6	No significant change
	rate	0.5	0.5	1.6	5.8	3.2	1.6	2.7	2.2	1.1	3.2	
Chippewa County	count	0	0	0	2	4	1	1	1	2	0	No significant change
	rate	0.0	0.0	0.0	5.3	10.7	2.7	2.8	2.8	5.5	0.0	
Delta-Menominee	count	0	0	0	0	0	0	1	0	1	0	No significant change
	rate	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	
Detroit City ³	count	115	105	118	218	249	302	357	337	227	182	-21.0%
	rate	15.0	13.9	15.6	29.0	33.3	40.5	49.2	47.0	31.7	25.4	(-26.4%, -14.9%)
Dickinson-Iron	count	0	0	0	0	0	0	1	1	0	1	No significant change
	rate	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.8	0.0	2.7	
District 2 ⁴	count	0	0	1	0	0	1	0	0	0	0	
	rate	0.0	0.0	1.5	0.0	0.0	1.6	0.0	0.0	0.0	0.0	
District 4 ⁵	count	0	1	0	3	2	1	0	1	1	2	No significant change
	rate	0.0	1.3	0.0	3.9	2.6	1.3	0.0	1.3	1.3	2.6	
District 10 ⁶	count	5	2	3	4	2	4	5	12	4	4	No significant change
	rate	1.9	0.8	1.1	1.5	0.8	1.5	1.9	4.5	1.5	1.5	

2 - Central Michigan District serves Arenac, Clare, Gladwin, Isabella, Osceola and Roscommon Counties.

3 - Detroit LHD refers to Detroit City and Hamtramck, Highland Park, the Grosse Points and Harper Woods. Wayne LHD covers Western Wayne County for STIs.

4 - District 2 serves Alcona, Iosco, Oscoda and Ogemaw Counties.

5 - District 4 serves Alpena, Cheboygan, Montmorency and Presque Isle Counties.

6 - District 10 serves Crawford, Kalkaska, Lake, Manistee, Mason, Mecosta, Missaukee, Newaygo, Oceana and Wexford Counties.

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By residence at diagnosis (local health jurisdiction)

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
<i>rates displayed per 100,000 population</i>												
Genesee County	<i>count</i>	12	16	21	10	23	26	18	41	42	27	No significant change
	<i>rate</i>	2.9	3.9	5.2	2.5	5.7	6.4	4.4	10.2	10.5	6.7	
Grand Traverse County	<i>count</i>	0	1	2	0	6	4	1	1	0	1	No significant change
	<i>rate</i>	0.0	1.1	2.2	0.0	6.4	4.2	1.0	1.0	0.0	1.0	
Huron County	<i>count</i>	1	1	0	0	0	1	1	0	0	0	
	<i>rate</i>	3.1	3.2	0.0	0.0	0.0	3.2	3.2	0.0	0.0	0.0	
Ingham County	<i>count</i>	11	14	29	28	26	33	21	22	34	19	No significant change
	<i>rate</i>	3.8	4.8	9.9	9.6	8.9	11.6	7.7	7.7	11.8	6.5	
Ionia County	<i>count</i>	2	1	0	1	5	2	3	2	3	2	No significant change
	<i>rate</i>	3.1	1.6	0.0	1.6	7.7	3.0	4.5	3.0	4.5	3.0	
Jackson County	<i>count</i>	5	3	8	9	6	9	4	9	28	20	74.0% (14.1%, 166.4%)
	<i>rate</i>	3.1	1.9	5.0	5.7	3.8	5.6	2.5	5.6	17.5	12.5	
Kalamazoo County	<i>count</i>	7	5	8	12	20	29	67	44	72	73	No significant change
	<i>rate</i>	2.7	1.9	3.0	4.5	7.5	11.1	25.7	16.8	27.3	27.6	
Kent County	<i>count</i>	17	26	34	29	25	37	64	51	69	65	No significant change
	<i>rate</i>	2.7	4.0	5.2	4.4	3.8	5.6	9.7	7.7	10.4	9.7	
Lapeer County	<i>count</i>	2	0	1	2	1	2	1	3	4	3	No significant change
	<i>rate</i>	2.3	0.0	1.1	2.3	1.1	2.3	1.1	3.4	4.5	3.4	
Lenawee County	<i>count</i>	2	0	4	5	1	1	2	3	4	2	No significant change
	<i>rate</i>	2.0	0.0	4.1	5.1	1.0	1.0	2.0	3.1	4.1	2.0	
Livingston County	<i>count</i>	3	4	2	1	2	5	3	3	6	6	No significant change
	<i>rate</i>	1.6	2.1	1.1	0.5	1.0	2.6	1.5	1.5	3.0	3.0	
Luce-Mack-Alger-School	<i>count</i>	0	1	1	0	0	0	0	0	0	1	
	<i>rate</i>	0.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	2.9	
Macomb County	<i>count</i>	38	27	44	73	55	79	91	74	76	32	-25.0% (-37.0%, -10.1%)
	<i>rate</i>	4.4	3.1	5.1	8.4	6.3	9.0	10.4	8.5	8.6	3.6	
Marquette County	<i>count</i>	2	0	0	0	1	0	0	4	2	3	No significant change
	<i>rate</i>	3.0	0.0	0.0	0.0	1.5	0.0	0.0	6.0	3.0	4.4	
Mid-Michigan District ⁷	<i>count</i>	1	2	3	3	3	4	3	7	4	2	No significant change
	<i>rate</i>	0.6	1.1	1.6	1.6	1.6	2.1	1.6	3.7	2.1	1.0	
Midland County	<i>count</i>	0	1	1	0	3	1	0	4	3	3	No significant change
	<i>rate</i>	0.0	1.2	1.2	0.0	3.6	1.2	0.0	4.8	3.6	3.6	

7 - Mid-Michigan District serves Clinton, Gratiot and Montcalm Counties.

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By residence at diagnosis (local health jurisdiction)

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
<i>rates displayed per 100,000 population</i>												
Monroe County	<i>count</i>	5	6	10	6	4	1	3	5	2	5	No significant change
	<i>rate</i>	3.3	4.0	6.7	4.0	2.7	0.6	1.9	3.2	1.3	3.2	
Muskegon County	<i>count</i>	1	2	4	0	1	3	5	20	11	24	No significant change
	<i>rate</i>	0.6	1.2	2.3	0.0	0.6	1.7	2.8	11.4	6.2	13.5	
Northwest MI Com Hlth Agency ⁸	<i>count</i>	2	1	4	2	3	0	2	2	4	1	No significant change
	<i>rate</i>	1.9	0.9	3.7	1.9	2.8	0.0	1.8	1.8	3.6	0.9	
Oakland County	<i>count</i>	64	64	62	87	88	77	120	115	85	49	-25.0% (-33.0%, -15.4%)
	<i>rate</i>	5.1	5.1	4.9	6.9	7.0	6.1	9.4	9.0	6.6	3.8	
Ottawa County	<i>count</i>	4	5	1	6	3	7	8	4	9	12	No significant change
	<i>rate</i>	1.4	1.8	0.3	2.1	1.0	2.4	2.7	1.3	3.0	3.9	
Saginaw County	<i>count</i>	3	2	2	2	4	4	8	14	7	6	No significant change
	<i>rate</i>	1.6	1.0	1.0	1.0	2.1	2.1	4.2	7.4	3.7	3.2	
Sanilac County	<i>count</i>	0	2	0	0	1	1	0	0	0	0	
	<i>rate</i>	0.0	4.8	0.0	0.0	2.4	2.5	0.0	0.0	0.0	0.0	
Shiawassee County	<i>count</i>	1	0	1	2	0	6	1	3	3	3	No significant change
	<i>rate</i>	1.5	0.0	1.5	2.9	0.0	8.8	1.5	4.4	4.4	4.4	
St Clair County	<i>count</i>	2	3	2	5	4	7	9	7	10	9	No significant change
	<i>rate</i>	1.3	1.9	1.3	3.1	2.5	4.4	5.6	4.4	6.2	5.6	
Tuscola County	<i>count</i>	0	0	0	0	0	1	0	0	0	0	
	<i>rate</i>	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	
Van Buren-Cass	<i>count</i>	0	1	1	1	2	4	3	4	2	6	No significant change
	<i>rate</i>	0.0	0.8	0.8	0.8	1.6	3.1	2.4	3.1	1.6	4.7	
Washtenaw County	<i>count</i>	27	17	28	25	24	31	35	41	24	24	-16.0% (-28.2%, -1.2%)
	<i>rate</i>	7.4	4.6	7.6	6.7	6.5	8.3	9.6	11.1	6.5	6.4	
Wayne County ⁹	<i>count</i>	54	56	60	85	89	71	99	87	59	54	-20.0% (-27.7%, -11.1%)
	<i>rate</i>	5.4	5.6	6.0	8.5	8.9	6.8	9.4	8.3	5.6	5.1	
Western UP District ¹⁰	<i>count</i>	1	0	0	0	0	1	0	4	1	2	No significant change
	<i>rate</i>	1.5	0.0	0.0	0.0	0.0	1.5	0.0	5.8	1.5	2.9	

8 - Northwest MI Com Hlth Agency serves Antrim, Charlevoix, Emmet and Otsego Counties.

9 - Excludes the City of Detroit

10 - Western UP District serves Baraga, Gogebic, Houghton, Keweenaw and Ontonagon Counties.

Annual Review of STI Trends in Michigan, 2015 - 2024 - Latent Syphilis

<i>rates displayed per 100,000 population</i>		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
Michigan Total	<i>count</i>	694	766	810	1036	1213	1234	1661	1822	2178	2183	10.0%
	<i>rate</i>	7.0	7.7	8.1	10.4	12.2	12.3	16.5	18.1	21.6	21.5	(6.5%, 13.7%)

By Age¹

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
Less than 15 years	<i>count</i>	0	0	0	1	0	2	0	1	0	2	No significant change
	<i>rate</i>	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	
15-19 years	<i>count</i>	26	39	32	45	46	36	54	61	61	59	No significant change
	<i>rate</i>	3.9	5.8	4.8	6.9	7.1	5.5	8.4	9.4	9.4	9.1	
20-24 years	<i>count</i>	144	126	118	150	157	162	246	244	309	248	No significant change
	<i>rate</i>	19.6	17.6	16.7	21.6	23.0	24.0	36.9	36.4	45.9	36.5	
25-29 years	<i>count</i>	117	168	165	209	293	235	297	365	373	420	11.9%
	<i>rate</i>	18.6	25.6	24.3	30.1	42.0	34.7	44.8	56.1	57.7	64.9	(6.9%, 17.0%)
30-39 years	<i>count</i>	189	179	232	296	348	384	595	620	812	866	12.9%
	<i>rate</i>	16.2	15.2	19.5	24.6	28.7	30.8	46.9	48.2	62.2	65.0	(8.9%, 17.0%)
40-49 years	<i>count</i>	139	152	161	198	199	232	244	287	337	330	10.1%
	<i>rate</i>	11.1	12.4	13.3	16.6	16.9	19.5	20.8	24.5	28.5	27.6	(4.6%, 16.0%)
50-59 years	<i>count</i>	68	80	81	102	126	137	155	172	201	177	8.3%
	<i>rate</i>	4.7	5.6	5.8	7.4	9.3	10.1	11.6	13.1	15.7	14.2	(0.8%, 16.0%)
60+ years	<i>count</i>	11	22	21	35	44	46	70	72	85	81	No significant change
	<i>rate</i>	0.5	1.0	0.9	1.5	1.8	1.9	2.8	2.8	3.2	3.0	

By Race/Sex¹

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
Am Indian/AN Female	<i>count</i>	0	0	0	0	2	1	1	8	3	5	No significant change
	<i>rate</i>	0.0	0.0	0.0	0.0	7.0	3.5	3.5	28.0	10.5	17.3	
Am Indian/AN Male	<i>count</i>	2	4	1	3	3	6	3	5	5	7	No significant change
	<i>rate</i>	7.2	14.4	3.6	10.7	10.7	21.3	10.6	17.6	17.6	24.5	
Asian/NH/PI Female	<i>count</i>	3	3	4	4	2	4	1	4	6	3	No significant change
	<i>rate</i>	1.9	1.9	2.4	2.4	1.2	2.3	0.6	2.2	3.1	1.5	
Asian/NH/PI Male	<i>count</i>	6	11	9	11	10	7	17	12	17	12	No significant change
	<i>rate</i>	4.1	7.1	5.6	6.7	6.0	4.1	10.0	6.8	9.1	6.0	
Black Female	<i>count</i>	119	84	103	118	173	171	255	273	342	330	10.2%
	<i>rate</i>	16.5	11.6	14.3	16.3	23.9	23.5	35.1	37.7	47.2	45.4	(4.8%, 16.0%)
Black Male	<i>count</i>	298	361	365	465	519	498	668	716	839	776	6.3%
	<i>rate</i>	45.6	55.2	55.9	71.2	79.6	74.9	101.0	108.7	127.6	117.7	(1.4%, 12.0%)
Hispanic Female	<i>count</i>	7	4	12	9	16	22	23	36	69	93	55.1%
	<i>rate</i>	2.9	1.6	4.8	3.5	6.1	7.9	8.2	12.5	23.2	30.4	(36.3%, 77.0%)
Hispanic Male	<i>count</i>	31	33	49	62	67	72	75	92	151	152	25.2%
	<i>rate</i>	12.5	13.0	18.9	23.4	24.7	24.9	25.6	30.6	49.0	47.8	(14.1%, 37.0%)
Multi/Other Female	<i>count</i>	4	5	0	0	6	6	12	12	13	17	No significant change
	<i>rate</i>	3.8	4.6	0.0	0.0	5.2	5.0	9.8	9.6	10.2	13.0	
Multi/Other Male	<i>count</i>	11	8	5	15	11	14	44	32	34	39	No significant change
	<i>rate</i>	10.7	7.6	4.6	13.5	9.7	11.9	36.7	26.0	27.0	30.1	
White Female	<i>count</i>	32	30	37	51	79	100	167	198	240	262	16.5%
	<i>rate</i>	0.8	0.8	1.0	1.3	2.1	2.7	4.5	5.3	6.5	7.0	(9.7%, 24.0%)
White Male	<i>count</i>	167	210	211	297	316	315	355	387	404	430	6.5%
	<i>rate</i>	4.5	5.7	5.7	8.0	8.6	8.5	9.6	10.5	11.0	11.7	(1.9%, 11.0%)

1 - Cases with missing data for characteristics were omitted from the respective analyses

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By Exposure Factor (population denominators not available)

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
Het Female (Women who have sex with men)	count	109	96	118	145	194	214	325	387	409	431	9.2% (4.4%, 14.0%)
Het Male (Men who have sex with women only)	count	78	100	100	127	157	180	174	228	169	191	No significant change
MSM (Men who have sex with men)	count	290	341	383	487	532	445	522	483	347	327	-15.9% (-20.1%, -12.0%)
PWID (People who inject drugs)	count	10	7	9	23	38	34	24	25	29	19	No significant change

By residence at diagnosis (local health jurisdiction)

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
<i>rates displayed per 100,000 population</i>												
Allegan County	count	5	6	4	6	5	8	7	12	11	7	No significant change
	rate	4.4	5.2	3.4	5.1	4.2	6.6	5.8	9.9	9.0	5.7	
Barry-Eaton	count	4	2	6	11	18	11	15	11	25	19	No significant change
	rate	2.4	1.2	3.5	6.4	10.5	6.4	8.7	6.4	14.5	10.9	
Bay County	count	2	2	4	8	3	1	9	5	6	7	No significant change
	rate	1.9	1.9	3.8	7.7	2.9	1.0	8.7	4.9	5.8	6.8	
Benzie-Leelanau	count	0	0	0	0	0	3	2	0	2	0	No significant change
	rate	0.0	0.0	0.0	0.0	0.0	7.4	4.9	0.0	4.8	0.0	
Berrien County	count	6	5	14	17	7	6	8	16	16	24	36.3% (8.5%, 71.2%)
	rate	3.9	3.2	9.1	11.0	4.6	3.9	5.2	10.5	10.5	15.7	
Branch-Hillsdale-St. Joseph	count	1	5	5	5	6	2	1	13	7	28	102.7% (19.3%, 244.3%)
	rate	0.7	3.3	3.3	3.3	4.0	1.3	0.7	8.6	4.6	18.3	
Calhoun County	count	2	8	5	6	14	13	17	18	31	36	32.4% (10.6%, 58.4%)
	rate	1.5	6.0	3.7	4.5	10.5	9.7	12.7	13.5	23.2	26.9	
Central Michigan District ²	count	2	3	2	3	2	10	5	14	3	6	No significant change
	rate	1.1	1.6	1.1	1.6	1.1	5.5	2.7	7.6	1.6	3.2	
Chippewa County	count	0	0	1	7	4	2	2	3	3	2	No significant change
	rate	0.0	0.0	2.7	18.7	10.7	5.4	5.6	8.3	8.3	5.5	
Delta-Menominee	count	0	0	0	0	2	1	1	3	3	3	No significant change
	rate	0.0	0.0	0.0	0.0	3.4	1.7	1.7	5.0	5.1	5.0	
Detroit City ³	count	271	281	308	370	441	453	598	595	682	597	No significant change
	rate	35.4	37.1	40.8	49.3	58.9	60.7	82.4	83.0	95.2	83.3	
Dickinson-Iron	count	0	0	0	1	0	2	3	1	0	2	No significant change
	rate	0.0	0.0	0.0	2.7	0.0	5.3	8.0	2.8	0.0	5.3	
District 2 ⁴	count	0	0	0	1	1	0	1	0	3	2	No significant change
	rate	0.0	0.0	0.0	1.5	1.5	0.0	1.5	0.0	4.6	3.1	
District 4 ⁵	count	2	1	2	0	1	0	0	0	2	2	No significant change
	rate	2.6	1.3	2.6	0.0	1.3	0.0	0.0	0.0	2.6	2.6	
District 10 ⁶	count	5	3	2	6	13	18	21	11	13	19	No significant change
	rate	1.9	1.1	0.8	2.3	4.9	6.8	7.9	4.1	4.8	7.0	

2 - Central Michigan District serves Arenac, Clare, Gladwin, Isabella, Osceola and Roscommon Counties.

3 - Detroit LHD refers to Detroit City and Hamtramck, Highland Park, the Grosse Points and Harper Woods. Wayne LHD covers Western Wayne County for STIs.

4 - District 2 serves Alcona, Iosco, Oscoda and Ogemaw Counties.

5 - District 4 serves Alpena, Cheboygan, Montmorency and Presque Isle Counties.

6 - District 10 serves Crawford, Kalkaska, Lake, Manistee, Mason, Mecosta, Missaukee, Newaygo, Oceana and Wexford Counties.

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By residence at diagnosis (local health jurisdiction)

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
<i>rates displayed per 100,000 population</i>												
Genesee County	<i>count</i>	25	26	29	25	36	42	43	77	114	89	28.7%
	<i>rate</i>	6.1	6.4	7.1	6.1	8.9	10.4	10.6	19.2	28.4	22.1	(4.7%, 58.3%)
Grand Traverse County	<i>count</i>	0	0	0	3	2	2	3	6	3	7	No significant change
	<i>rate</i>	0.0	0.0	0.0	3.2	2.1	2.1	3.1	6.2	3.1	7.2	No significant change
Huron County	<i>count</i>	0	0	0	0	0	0	0	2	0	0	No significant change
	<i>rate</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	No significant change
Ingham County	<i>count</i>	11	15	28	57	53	48	60	50	67	60	No significant change
	<i>rate</i>	3.8	5.2	9.6	19.6	18.2	16.8	22.1	17.6	23.3	20.7	No significant change
Ionia County	<i>count</i>	3	0	3	2	5	0	3	5	4	13	64.7%
	<i>rate</i>	4.7	0.0	4.7	3.1	7.7	0.0	4.5	7.5	6.1	19.6	(11.8%, 142.5%)
Jackson County	<i>count</i>	5	10	8	17	28	33	44	92	119	167	47.8%
	<i>rate</i>	3.1	6.3	5.0	10.7	17.7	20.6	27.5	57.6	74.5	104.2	(35.0%, 61.9%)
Kalamazoo County	<i>count</i>	12	19	22	23	25	32	67	62	83	106	18.4%
	<i>rate</i>	4.6	7.3	8.4	8.7	9.4	12.2	25.7	23.7	31.5	40.0	(7.2%, 30.8%)
Kent County	<i>count</i>	36	58	70	67	80	105	96	103	152	181	25.1%
	<i>rate</i>	5.6	9.0	10.8	10.3	12.2	15.9	14.6	15.6	22.9	26.9	(15.7%, 35.2%)
Lapeer County	<i>count</i>	1	1	0	3	1	7	1	2	7	6	71.3%
	<i>rate</i>	1.1	1.1	0.0	3.4	1.1	7.9	1.1	2.3	7.9	6.7	(4.6%, 180.3%)
Lenawee County	<i>count</i>	3	2	2	10	0	5	7	6	12	3	No significant change
	<i>rate</i>	3.0	2.0	2.0	10.2	0.0	5.0	7.1	6.1	12.3	3.1	No significant change
Livingston County	<i>count</i>	1	3	3	3	9	3	7	12	7	8	No significant change
	<i>rate</i>	0.5	1.6	1.6	1.6	4.7	1.5	3.6	6.1	3.6	4.1	No significant change
Luce-Mack-Alger-School	<i>count</i>	0	2	1	0	2	2	0	2	3	1	No significant change
	<i>rate</i>	0.0	5.9	2.9	0.0	5.9	5.9	0.0	5.8	8.8	2.9	No significant change
Macomb County	<i>count</i>	70	52	61	69	81	82	137	130	159	147	No significant change
	<i>rate</i>	8.1	6.0	7.0	7.9	9.3	9.3	15.6	14.8	18.1	16.6	No significant change
Marquette County	<i>count</i>	0	1	0	0	2	1	2	2	3	3	No significant change
	<i>rate</i>	0.0	1.5	0.0	0.0	3.0	1.5	3.0	3.0	4.4	4.4	No significant change
Mid-Michigan District ⁷	<i>count</i>	2	3	4	2	6	14	11	10	14	23	31.9%
	<i>rate</i>	1.1	1.7	2.2	1.1	3.3	7.5	5.8	5.3	7.4	12.1	(3.9%, 67.3%)
Midland County	<i>count</i>	0	1	2	2	3	1	2	3	3	4	No significant change
	<i>rate</i>	0.0	1.2	2.4	2.4	3.6	1.2	2.4	3.6	3.6	4.8	No significant change

7 - Mid-Michigan District serves Clinton, Gratiot and Montcalm Counties.

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By residence at diagnosis (local health jurisdiction)

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2021-24 Avg. Annual Change (95% CI)
<i>rates displayed per 100,000 population</i>												
Monroe County	<i>count</i>	3	7	5	5	5	7	9	12	9	11	No significant change
	<i>rate</i>	2.0	4.7	3.3	3.3	3.3	4.5	5.8	7.7	5.8	7.0	
Muskegon County	<i>count</i>	9	9	9	18	12	8	15	39	25	41	No significant change
	<i>rate</i>	5.2	5.2	5.2	10.4	6.9	4.6	8.5	22.2	14.2	23.1	
Northwest MI Com Hlth Agency ⁸	<i>count</i>	1	1	3	3	3	7	4	3	5	9	No significant change
	<i>rate</i>	0.9	0.9	2.8	2.8	2.8	6.4	3.6	2.7	4.5	8.1	
Oakland County	<i>count</i>	86	104	85	127	149	138	196	181	204	187	No significant change
	<i>rate</i>	6.9	8.3	6.8	10.1	11.8	10.8	15.4	14.2	15.9	14.4	
Ottawa County	<i>count</i>	6	7	5	8	11	16	18	19	18	30	No significant change
	<i>rate</i>	2.1	2.5	1.7	2.8	3.8	5.4	6.0	6.3	5.9	9.8	
Saginaw County	<i>count</i>	4	8	4	7	8	6	10	33	26	32	No significant change
	<i>rate</i>	2.1	4.2	2.1	3.7	4.2	3.2	5.3	17.5	13.8	17.0	
Sanilac County	<i>count</i>	0	0	2	0	2	0	0	1	2	3	No significant change
	<i>rate</i>	0.0	0.0	4.8	0.0	4.9	0.0	0.0	2.5	4.9	7.4	
Shiawassee County	<i>count</i>	0	0	0	0	2	4	9	4	3	7	No significant change
	<i>rate</i>	0.0	0.0	0.0	0.0	2.9	5.9	13.2	5.9	4.4	10.3	
St Clair County	<i>count</i>	5	5	5	4	6	5	9	10	16	15	No significant change
	<i>rate</i>	3.1	3.1	3.1	2.5	3.8	3.1	5.6	6.3	10.0	9.4	
Tuscola County	<i>count</i>	0	0	0	1	0	1	1	1	1	2	No significant change
	<i>rate</i>	0.0	0.0	0.0	1.9	0.0	1.9	1.9	1.9	1.9	3.8	
Van Buren-Cass	<i>count</i>	3	3	2	4	4	9	7	1	14	14	No significant change
	<i>rate</i>	2.4	2.4	1.6	3.3	3.1	7.1	5.5	0.8	11.0	11.0	
Washtenaw County	<i>count</i>	27	32	27	28	52	30	39	69	78	76	19.9% (5.3%, 36.4%)
	<i>rate</i>	7.4	8.7	7.3	7.6	14.1	8.1	10.7	18.8	21.1	20.3	
Wayne County ⁹	<i>count</i>	79	79	73	107	109	95	168	179	215	183	No significant change
	<i>rate</i>	7.9	7.9	7.3	10.7	10.9	9.1	16.0	17.1	20.6	17.4	
Western UP District ¹⁰	<i>count</i>	1	1	4	0	0	1	3	4	5	1	No significant change
	<i>rate</i>	1.5	1.5	5.9	0.0	0.0	1.5	4.4	5.8	7.3	1.5	

8 - Northwest MI Com Hlth Agency serves Antrim, Charlevoix, Emmet and Otsego Counties.

9 - Excludes the City of Detroit

10 - Western UP District serves Baraga, Gogebic, Houghton, Keweenaw and Ontonagon Counties.

Appendix: Local Health Department (LHD) Total Population Estimates(from the Census Bureau's annual American Community Survey)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
<i>Michigan</i>	9,934,069	9,953,694	9,976,752	9,981,516	9,982,097	10,072,703	10,041,351	10,048,764	10,082,242	10,140,459
Allegan County	114,122	115,018	116,393	117,137	118,045	120,661	121,055	121,262	121,874	122,429
Barry-Eaton	168,135	169,021	170,168	170,879	171,600	171,806	172,062	172,351	172,953	173,519
Bay County	105,271	104,421	104,085	103,674	102,964	103,747	103,116	102,754	102,774	102,651
Benzie-Leelanau	39,019	39,031	39,263	39,410	39,459	40,301	40,870	41,227	41,430	41,391
Berrien County	155,136	154,451	154,264	153,892	153,352	154,426	153,598	153,064	152,651	152,703
Branch-Hillsdale-St. Joseph	150,338	150,001	149,879	149,991	149,818	151,550	151,688	151,140	152,291	152,948
Calhoun County	134,377	134,343	134,127	133,858	133,806	134,219	133,905	133,475	133,505	133,785
Central Michigan District	189,030	188,862	188,838	188,567	188,273	182,110	182,746	183,554	184,181	184,975
Chippewa County	37,998	37,724	37,699	37,423	37,287	36,787	35,861	36,236	36,340	36,253
Delta-Menominee	59,925	59,434	58,914	58,795	58,516	60,324	60,163	60,107	58,855	59,737
Detroit City	765,137	757,990	754,183	751,228	748,559	745,712	726,003	717,156	716,365	716,365
Dickinson-Iron	37,002	36,699	36,565	36,525	34,758	37,526	37,421	35,550	37,791	37,704
District 2	64,424	64,334	64,608	64,684	64,948	64,394	64,750	65,125	65,429	65,566
District 4	76,219	76,050	75,859	75,968	75,628	76,633	77,157	77,679	77,940	77,925
District 10	261,013	261,623	263,174	264,613	265,426	263,114	265,284	267,466	268,941	269,998
Genesee County	410,574	409,054	407,673	406,626	405,702	405,793	404,713	402,031	401,711	402,279
Grand Traverse County	91,610	92,076	91,914	92,587	93,032	95,427	95,985	96,337	96,457	96,625
Huron County	31,761	31,471	31,304	31,193	30,904	31,372	31,319	31,150	30,943	30,780
Ingham County	287,255	289,633	291,678	291,267	291,426	285,007	271,662	284,761	287,710	290,427
Ionia County	64,073	64,215	64,293	64,290	64,654	66,891	66,853	66,774	66,104	66,250
Jackson County	159,325	158,345	158,653	158,594	158,357	160,223	160,181	159,828	159,835	160,233
Kalamazoo County	259,816	261,584	263,387	265,120	265,531	261,814	260,566	261,417	263,297	264,780
Kent County	637,333	644,219	649,722	653,636	656,800	658,524	658,979	660,134	665,109	673,002
Lapeer County	88,376	88,227	88,218	87,987	87,808	88,587	88,667	88,701	89,060	89,168
Lenawee County	98,432	98,595	98,511	98,118	98,519	99,318	99,105	98,284	97,621	97,746
Livingston County	187,221	188,585	189,923	191,259	192,058	193,989	195,344	196,083	196,772	196,976
Luce-Mack-Alger-School	34,628	34,135	34,292	34,238	33,894	34,117	33,700	34,193	34,238	34,345
Macomb County	865,031	868,329	870,867	872,089	872,389	880,294	877,789	875,735	879,271	886,175
Marquette County	67,357	66,563	66,524	66,406	66,689	66,544	66,278	67,103	67,654	67,979
Midland County	83,706	83,485	83,442	83,447	83,412	83,493	83,504	83,761	84,007	84,022
Mid-Michigan District	181,148	181,564	183,081	183,665	184,004	187,517	188,091	188,103	189,688	190,736
Monroe County	149,439	149,278	149,523	150,218	150,412	154,909	155,569	155,412	155,590	156,045
Muskegon County	172,506	173,342	173,804	173,719	173,645	174,794	175,581	175,526	176,476	177,428
Northwest MI Com Hlth Agency	106,395	106,634	107,127	107,429	107,562	108,743	109,707	110,200	110,379	110,673
Oakland County	1,244,895	1,251,563	1,256,478	1,257,472	1,257,726	1,272,526	1,272,776	1,275,098	1,281,836	1,296,888
Ottawa County	280,907	283,686	286,452	289,578	291,460	296,899	298,394	300,910	303,575	306,235
Saginaw County	193,384	192,636	192,002	190,841	190,484	189,883	189,533	188,425	187,769	187,714
Sanilac County	41,463	41,438	41,257	41,233	41,220	40,504	40,545	40,536	40,434	40,293
Shiawassee County	68,538	68,589	68,422	68,064	68,065	68,004	67,992	67,970	68,005	67,982
St Clair County	159,757	159,477	159,130	159,186	159,339	160,394	160,243	159,882	160,280	160,308
Tuscola County	53,723	53,260	52,817	52,692	52,355	53,311	53,043	52,932	52,856	52,757
Van Buren-Cass	126,457	126,609	126,830	121,437	127,441	127,119	127,208	127,099	127,471	127,679
Washtenaw County	363,555	366,960	369,703	370,548	368,242	371,849	365,041	367,947	370,398	373,875
Wayne County	999,729	1,002,845	1,003,691	1,004,640	1,001,534	1,043,943	1,049,193	1,045,855	1,046,006	1,054,698
Western UP District	68,529	68,295	68,015	67,293	64,994	67,605	68,111	68,431	68,370	68,412

* Complete city population estimates are released by the Census Bureau on a different schedule than county estimates, and the 2024 population estimate shown for Detroit LHD is not yet available, so 2023 data is used.