



Sexually transmitted infections in Utah:  
Surveillance report  
2012–2021

# Acknowledgements

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The Utah Department of Health and Human Services (DHHS) recognizes the efforts of local health department personnel throughout the state of Utah who play a critical role in case investigation and data collection for cases of sexually transmitted infections (STIs).

Sexually transmitted infection data for Utah are published by DHHS Office of Communicable Diseases. Please direct questions or comments to:

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# Executive summary

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This report presents the sexually transmitted infection (STI) epidemic in Utah to assist with education, outcome monitoring, and program planning. It summarizes 2021 surveillance data for major notifiable STIs in Utah: chlamydia, gonorrhea, and syphilis, and focuses on newly reported cases of these infections within the state. Of the more than 75 reportable communicable diseases in Utah, chlamydia and gonorrhea are among the most frequently reported diseases, with 11,226 cases and 3,627 cases reported in 2021, respectively.

In collaboration with the 13 local health departments (LHDs) throughout the state, each syphilis, gonorrhea, and some chlamydia cases are investigated, and each case is provided partner services. Disease investigation specialists (DIS) promote prompt treatment and facilitate partner notification to interrupt the chain of disease transmission. DIS promote human immunodeficiency virus (HIV) testing, provide HIV pre-exposure prophylaxis (PrEP) referrals, sexual health education, and collect the data used to compile this report. Findings in this report should be used to identify priority populations for sexual health interventions. Among the findings of this report, the following are of particular note.

Data from the Centers for Disease Control and Prevention (CDC) ranks Utah in the top 10 lowest cases among all states in 2021. The following is a ranking of Utah's STI cases nationally: chlamydia (44), gonorrhea (42), primary and secondary syphilis (44), and congenital syphilis (45).

2021 rates of gonorrhea and primary and secondary (P&S) syphilis all represent 10-year highs.

The majority of infections are reported along the more populous Wasatch Front: 80% of chlamydia infections, 90% of gonorrhea infections, and 86% of P&S syphilis infections in 2021.

Racial and ethnic minorities continue to shoulder a disproportionate burden of STIs in Utah.

The rate of chlamydia increased by 2.9% from 2020.

Two-thirds of the chlamydia cases reported in 2021 were among people aged 15–24.

The rate of gonorrhoea has increased 26% since 2012 (the lowest rate reported in the time frame).

In 2021, 60% of gonorrhoea cases were among people aged 20–34.

The rate of P&S syphilis has increased 313% since 2012 to 6.2 cases per 100,000 persons.

Since 2012, 71% of P&S syphilis cases in men have been among men who have sex with men (MSM).

## Introduction

This report consists of 6 sections: a section for the impacts of the COVID-19 pandemic, a section each for chlamydia, gonorrhea, and P&S syphilis; a section specific to chlamydia and gonorrhea in adolescents aged 15 to 19 and young adults aged 20 to 24; and a section with tables. Each disease-specific section contains text and figures that summarize data and display trends. The “Adolescents and young adults” section takes a more detailed look at the chlamydia and gonorrhea incidence in this vulnerable age group. The “Tables” section includes data for STIs by age group, sex, race/ethnicity, geography, sexual orientation in males, and testing data. Finally, the appendix contains a map of the 13 LHDs and a table listing the counties in each district’s service area.

## Technical notes

The Utah Communicable Disease Rule requires healthcare providers and laboratories report cases of chlamydia, gonorrhea, and syphilis to their LHD or the Utah Department of Health and Human Services (DHHS) Office of Communicable Diseases within 3 working days of identification.<sup>1</sup> Upon receipt, these reports are entered into Utah–National Electronic Disease Surveillance System (UT-NEDSS), a secure statewide disease surveillance system. The cases in this report are classified by Centers for Disease Control and Prevention’s (CDC) *Morbidity and Mortality Weekly Report (MMWR)* year unless otherwise noted.

Population data used to calculate rates were obtained from the Population Estimates Query Module from the DHHS Center for Health Data and Informatics, Indicator-Based Information System for Public Health (IBIS-PH). Population estimates are provided by Utah Population Committee estimates by the Kem C. Gardner Policy Institute.

In this report, missing and unknown age group, sex, and race/ethnicity data were not redistributed; therefore, incidence rates may be underestimated, particularly rates by race/ethnicity.

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<sup>1</sup>Utah Code Annotated. [R386-702 Communicable Disease Rule](http://www.rules.utah.gov/publicat/code/r386/r386-702.htm). <http://www.rules.utah.gov/publicat/code/r386/r386-702.htm>



# Impacts of the COVID-19 pandemic

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During 2020, the COVID-19 pandemic led to disruptions in STI-related prevention and care activities, including decreased screening during the initial shelter-in-place orders due to clinical closures and lack of resources, including a vaccine. STI program resources, including STI case investigators, were also redirected to COVID-19 activities which further delayed non-emergent disease investigations. Because STIs often do not show symptoms, screening is necessary for adequate diagnosis and treatment. Changes in access to healthcare affected the number of infectious diseases being diagnosed and reported.

The COVID-19 pandemic significantly affected trends in STIs—potentially resulting in underreporting of infections and possible increased STI transmission. It's likely these effects will persist for several years, and it may be difficult to understand the full impact of the pandemic on STIs. As a result, STI surveillance data collected during 2020 and 2021 should be interpreted cautiously.

# Chlamydia

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## Background

*Chlamydia trachomatis* infections are the second most reported communicable disease in both Utah and the United States.<sup>2</sup> In 2021, 11,226 cases of chlamydia were reported in Utah. Between 2012 and 2021,<sup>2</sup> Utah's chlamydia rate was 68% of the U.S. rate (Figure 1).<sup>3</sup> Utah's chlamydia rate increased 26% from 266.5 cases per 100,000 population in 2012 to 336.3 cases per 100,000 population in 2021. The increase in chlamydia rates may be an actual increase in disease trends or the result of increased screening efforts, use of increasingly sensitive diagnostic tests, increased reporting by providers and laboratories, and/or improved information systems for reporting.

Over the past 10 years, chlamydia rates in females have averaged twice that of males (Figure 2), most likely a result of higher rates of screening in women for this usually asymptomatic infection. Females with chlamydial infection are at risk for developing pelvic inflammatory disease (PID), and both men and women may become infertile as a result of untreated chlamydial infections. Susceptibility to more serious infections, such as HIV, increases when an individual is infected with chlamydia. In addition, pregnant women who have chlamydia can pass the infection to their infants during delivery, potentially resulting in pneumonia or neonatal ophthalmia.

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<sup>2</sup>Centers for Disease Control and Prevention (2021) Tables-Sexually Transmitted Disease Surveillance data, 2021.

<sup>3</sup>Centers for Disease Control and Prevention. *Sexually Transmitted Disease Surveillance 2021*. Atlanta: U.S. Department of Health and Human Services; 2021.

Figure 1. Chlamydia rates, Utah and United States, 2012–2021

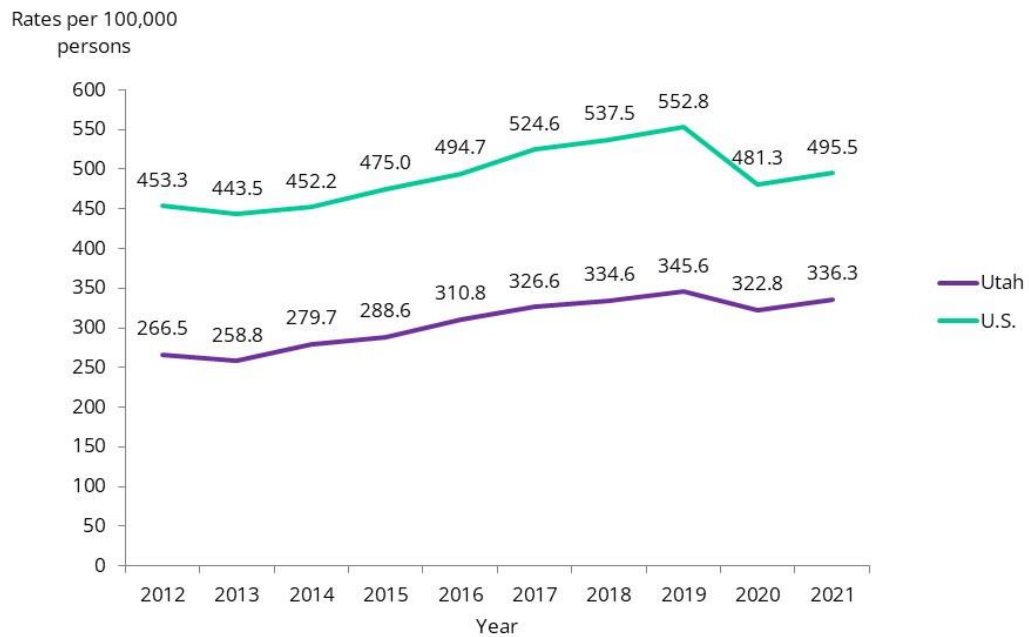
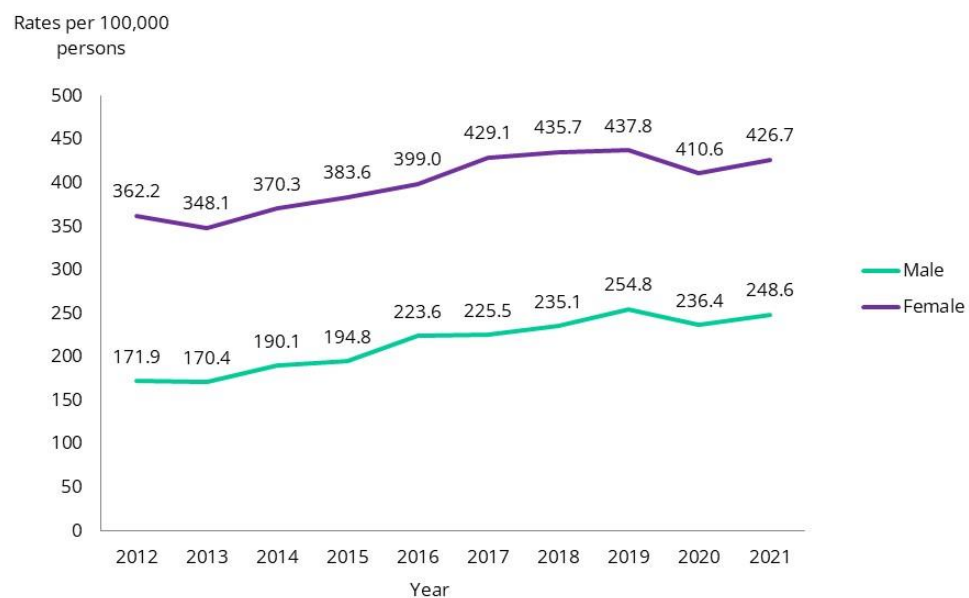


Figure 2. Chlamydia rates by sex, Utah and United States, 2012–2021



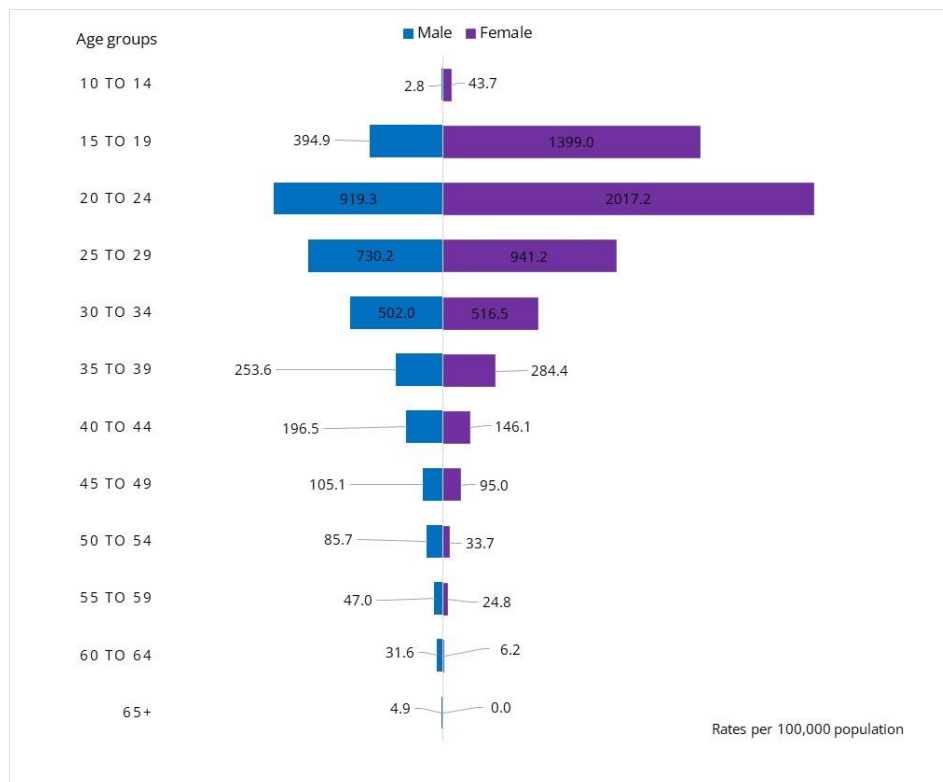
## Chlamydia by age group

During the 2012–2021 time period in Utah, chlamydia rates increased in all age groups between 15–64 years old with rate increases ranging from 23% in the 15 to 19-year-old age group to more than 400% in those between 55–59 years old (Table 2). Although the rates in older adults are not as high as in younger age groups, this demonstrates the need to target prevention messages to a wide range of age groups.

## Chlamydia by sex

Two-thirds of the chlamydia cases reported in Utah in 2021 were among people aged 15–24. The highest rates of infection were reported among females aged 20–24 (2,017.2 cases per 100,000 population) and aged 15–19 (1,399.0 cases per 100,000 population). The highest rate of infection reported in males was among men aged 20–24 (919.3 cases per 100,000 population) (Figure 3).

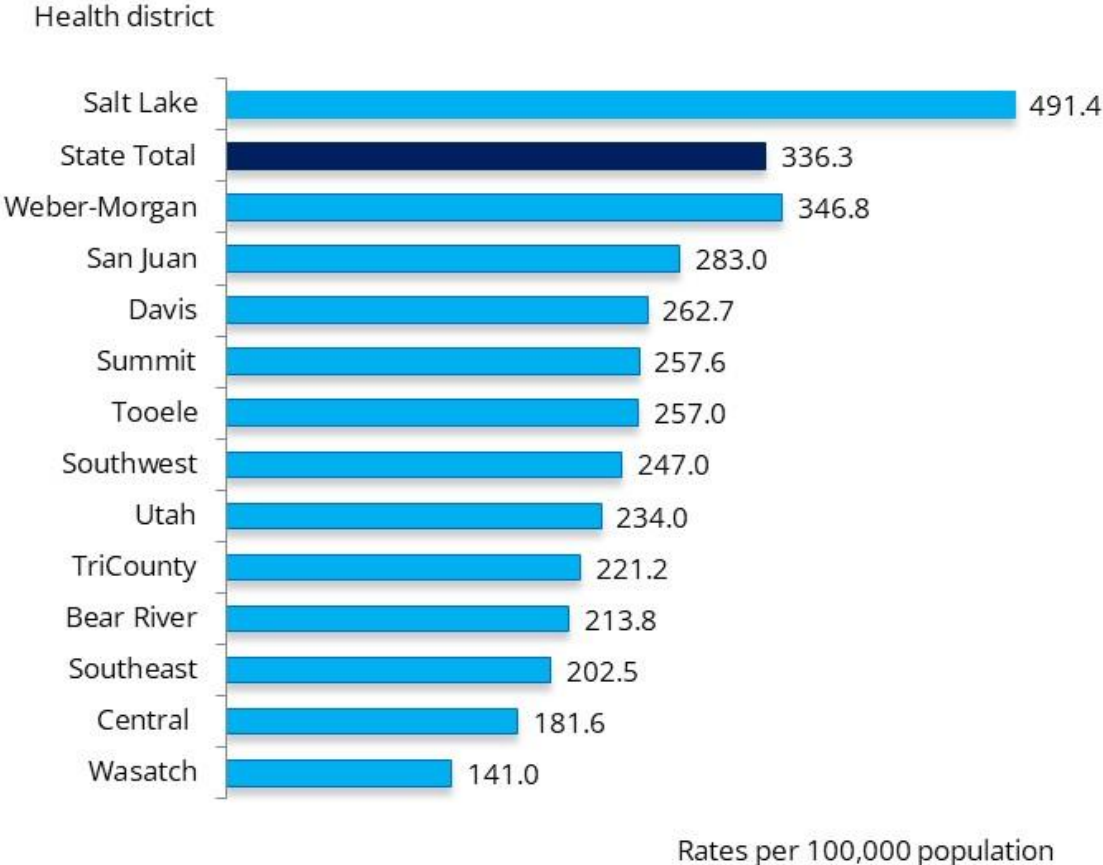
Figure 3. Chlamydia rates by age group and sex among persons aged  $\geq 10$  years, Utah, 2021



# Chlamydia by region

In 2021, one LHD in Utah had chlamydia rates higher than the state rate: Salt Lake County health district (491.4 cases per 100,000 population) (Figure 4). Similar to prior years, the majority of chlamydial infections were identified in the 4 health districts along the Wasatch Front: Salt Lake (51.9% of cases), Utah (14.2% of cases), Weber-Morgan (8.6% of cases) and Davis (8.5% of cases).

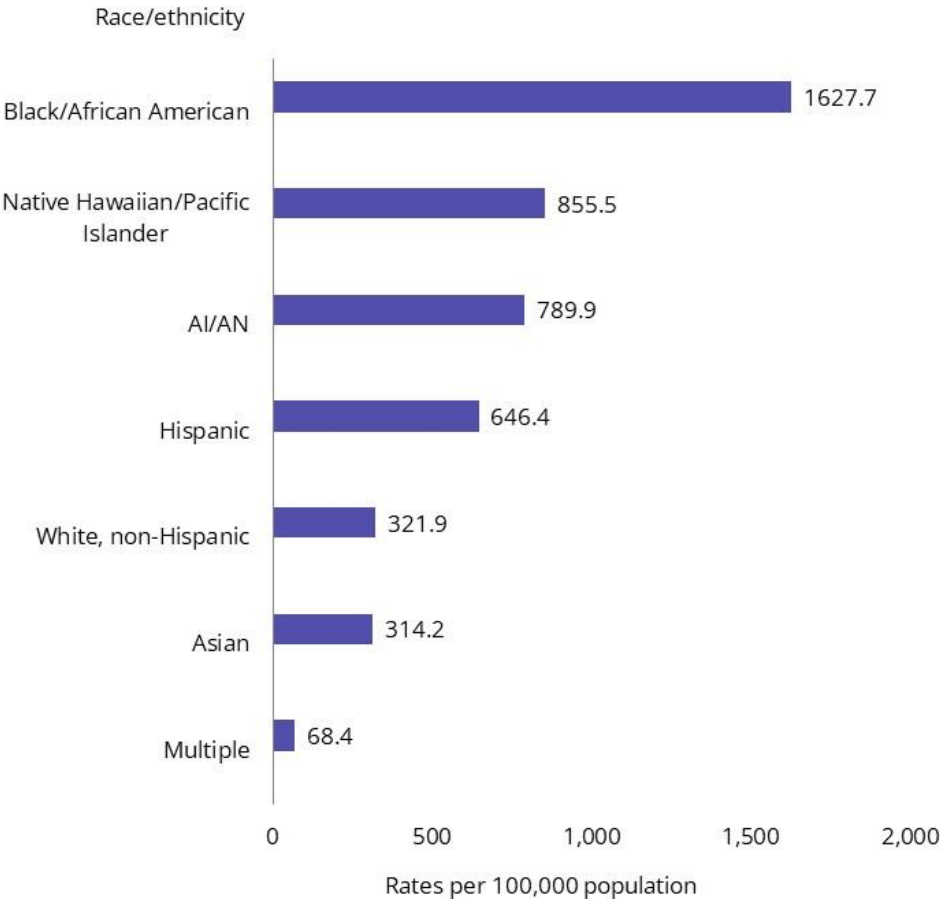
Figure 4. Chlamydia rates by local health district, Utah, 2021



# Chlamydia by race/Hispanic ethnicity

In 2021, the highest chlamydia rates among the major racial and ethnic groups in Utah were reported among people who are of non-Hispanic Black/African American populations (1,627.7 cases per 100,000 population) and individuals who are of Native Hawaiian or Pacific Islander populations (855.5 cases per 100,000 population), followed by individuals who are of American Indian/Alaska Native and those who are of Hispanic populations (789.9 and 646.4 cases per 100,000 population, respectively) (Figure 5). Racial/ethnic minorities continued to be disproportionately affected by chlamydia in 2021. In comparison, rates among people who are of non-Hispanic White populations were 321.9 cases per 100,000 population.

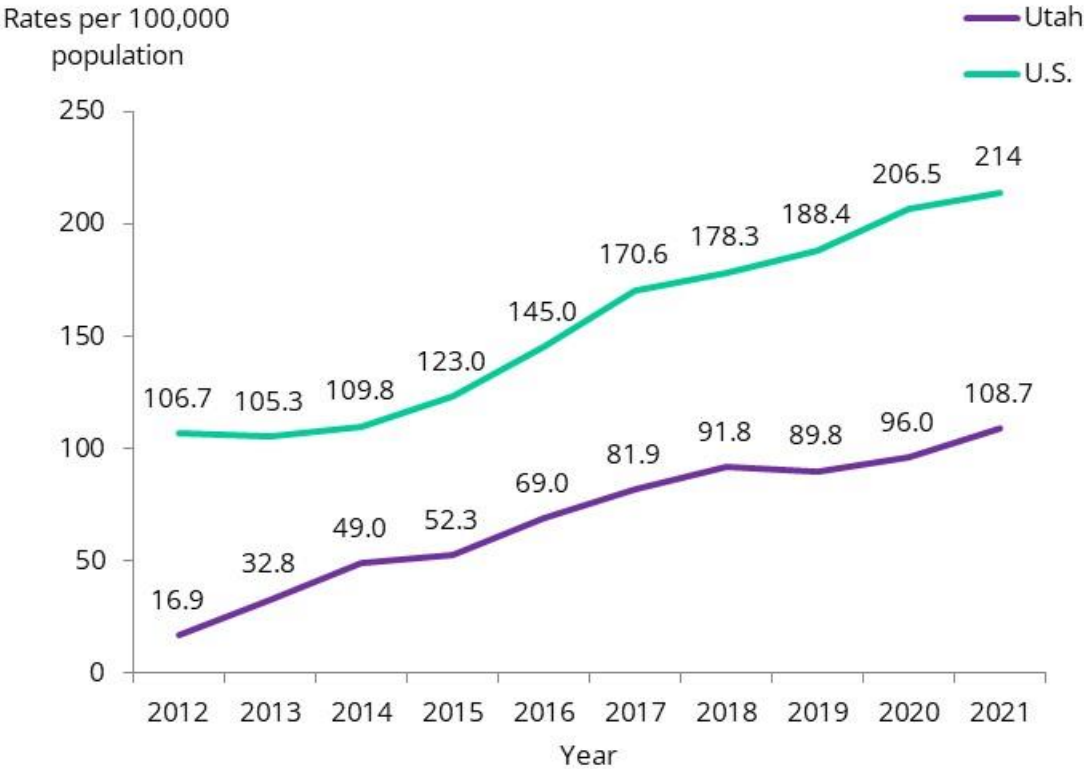
Figure 5. Chlamydia rates by race/ethnicity, Utah, 2021



# Gonorrhea

In 2021, 3,627 cases of gonorrhea were reported in Utah. Gonorrhea was the third most frequently reported communicable disease. Utah’s gonorrhea rate was 51% of the U.S. rate in 2021, up from 16% of the U.S. rate in 2012 (Figure 7). Following a 40% increase of Utah’s gonorrhea rate between 2004 and 2006, when the rate peaked at 35.2 cases per 100,000 population, Utah’s gonorrhea rate decreased annually to the lowest rate of 9.8 in 2011. The rate increased to 108.7 cases per 100,000 population in 2021, an increase of 1,009% from the 2012 rate.

Figure 7. Gonorrhea rates, Utah and United States, 2012-2021



# Gonorrhea by sex

Gonorrhea rates among males in Utah have consistently been higher than among females for the past 10 years (Figure 8). Rates among males averaged about 2 times higher than females from 2017 to 2021. More than half of male gonorrhea cases in 2012 were among MSM. This percentage has decreased from 52% in 2012 to 42% in 2021; however, the percentage of cases associated with unknown sexual orientation increased from 23% in 2012 to 29% in 2021 (Figure 9).

Figure 8. Gonorrhea rates by sex, 2012–2021

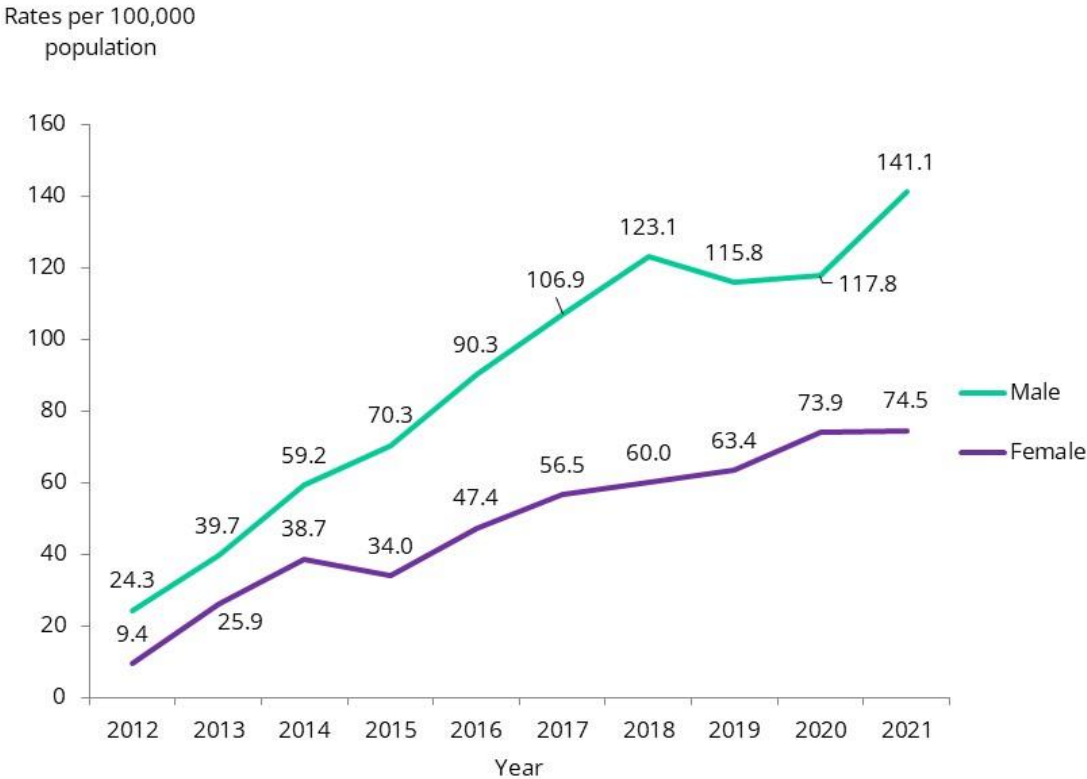
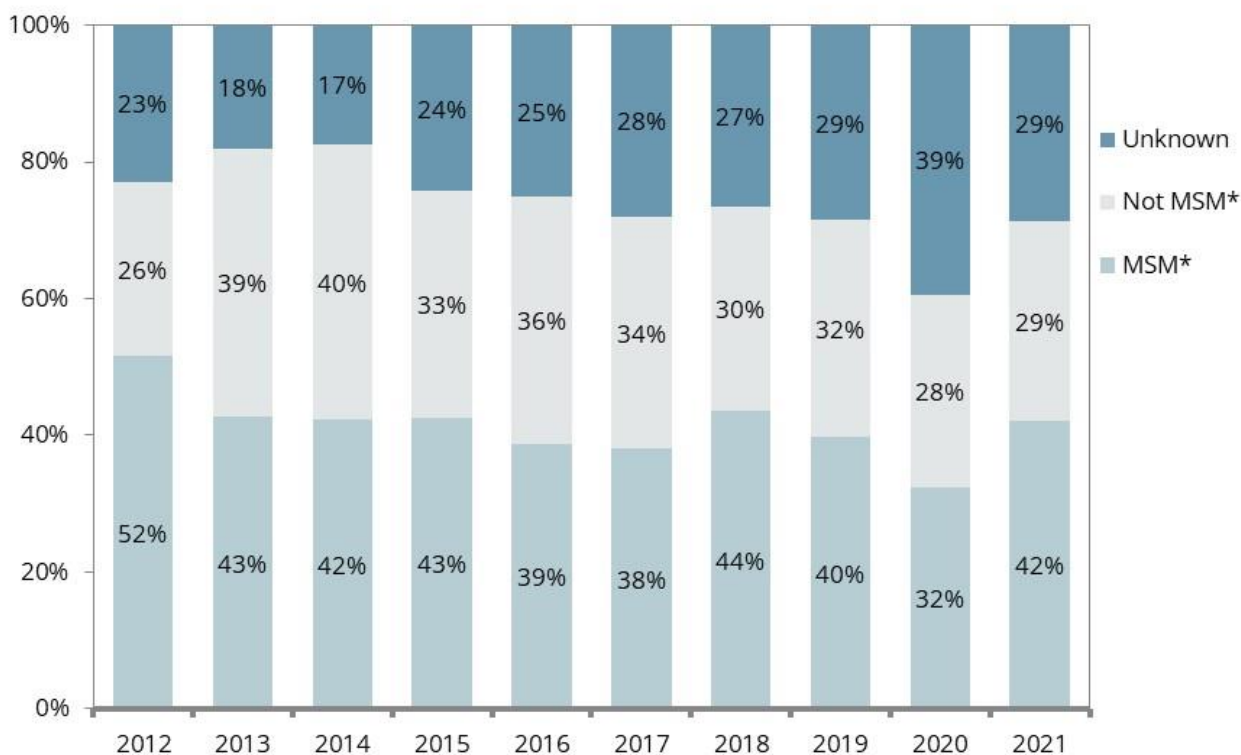




Figure 9. Percentage of male gonorrhea cases by sexual orientation, 2021



\*MSM = Men who have sex with men

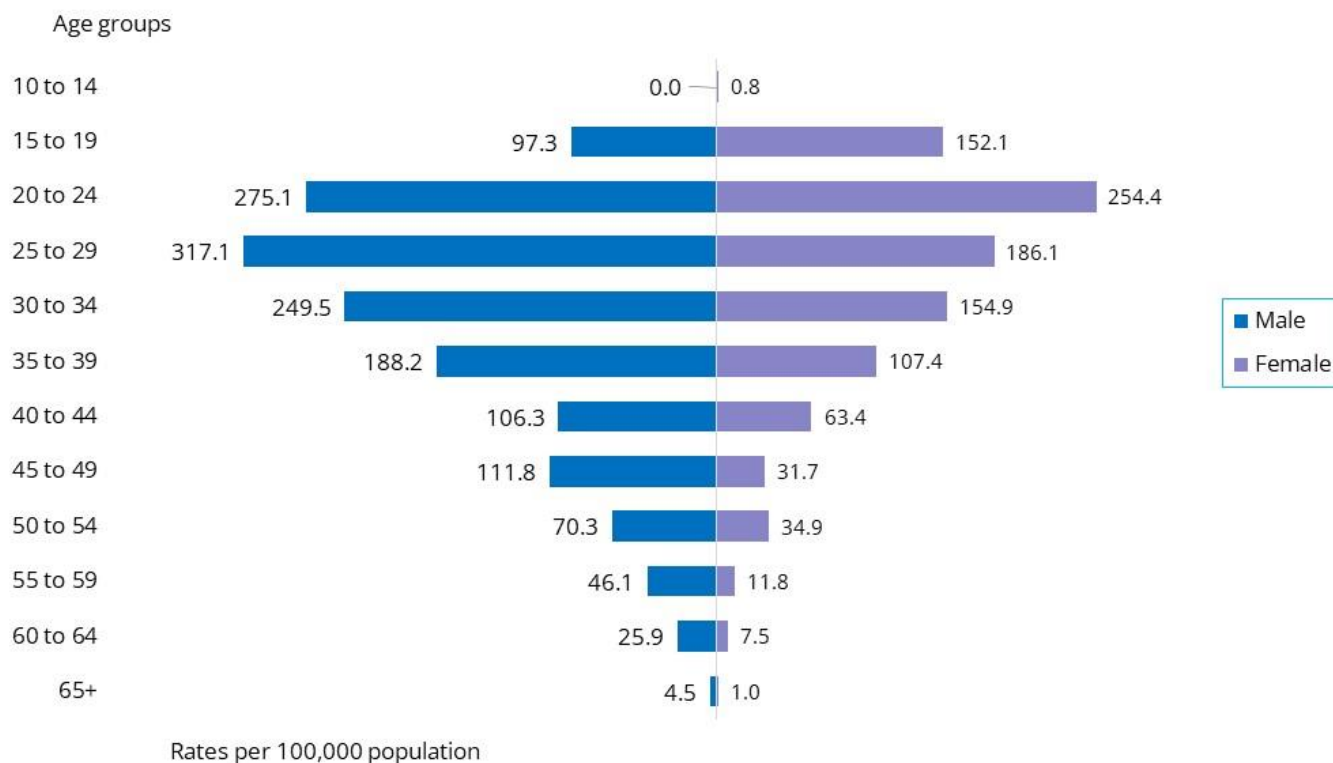
## Adverse health effects from gonorrhea

Untreated gonorrhea infections can damage the reproductive system in both males and females. Females who have gonorrhea infection are at risk for developing pelvic inflammatory disease (PID). Males who have gonorrhea are at risk for developing epididymitis. Gonorrhea can spread to joints and become systemic (disseminated gonorrhea). Susceptibility to infections, such as HIV, increases in individuals infected with gonorrhea. Furthermore, pregnant women who have gonorrhea can pass the infection to their infant during delivery, potentially resulting in ophthalmia neonatorum.

## Gonorrhea by age

In 2021, 59% of the reported gonorrhea cases in Utah were among people aged 20–34. In males, the highest rates of infection were in the 25–29 age group (407.9 cases per 100,000 population) followed by the 30–34 age group, and 20–24 age group (374.6 and 284.1 cases per 100,000 population, respectively) (Figure 10). In females, the highest rate of infection was among people aged 20–24 (254.4 cases per 100,000 population). Although the rates were lower, the largest percentage rate increase from 2020 to 2021 was among people aged 60–64.

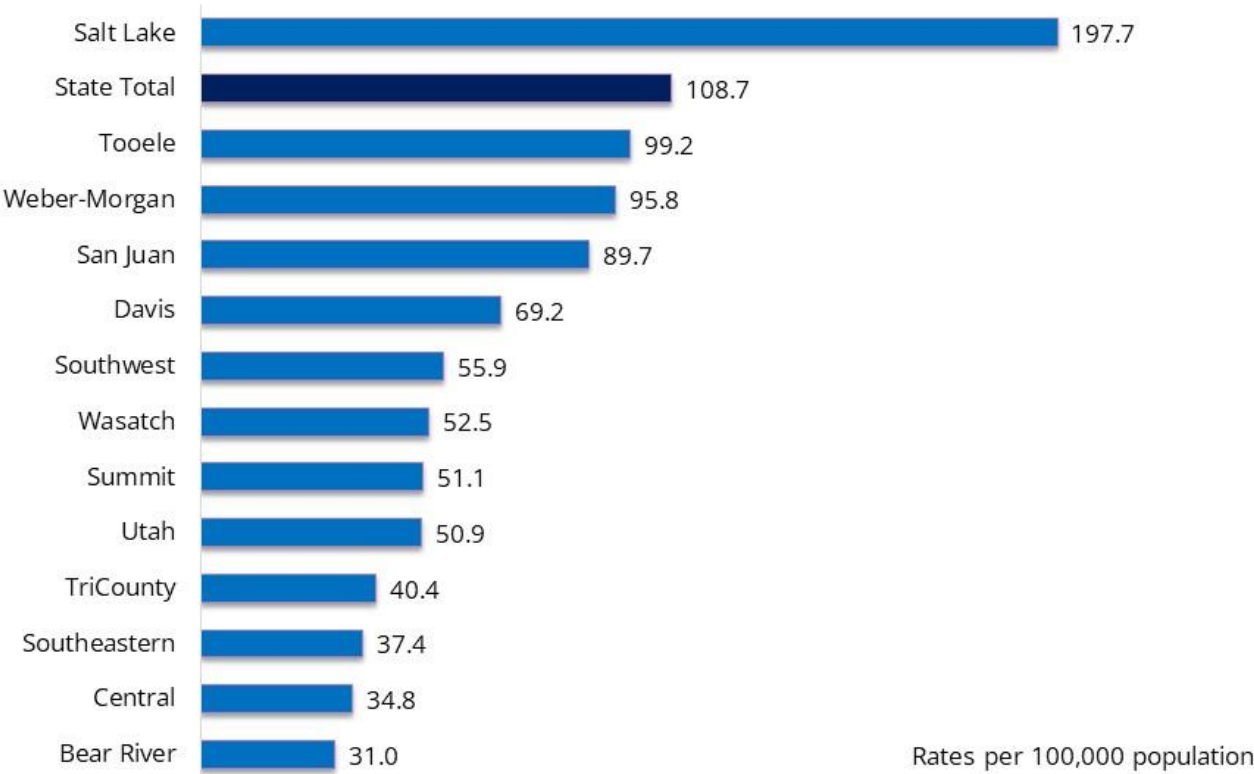
Figure 10. Gonorrhea rates by age group and sex among persons aged  $\geq 10$  years, Utah, 2021



# Gonorrhea by local health district

In 2021, one LHD in Utah had gonorrhea rates higher than the state rate: Salt Lake County health district (197.7 cases per 100,000 population) (Figure 11). Similar to prior years, the majority of cases were identified in 4 health districts along the Wasatch Front: Salt Lake (64.6%), Utah (9.6%), Weber-Morgan (7.3%), and Davis (7.0%).

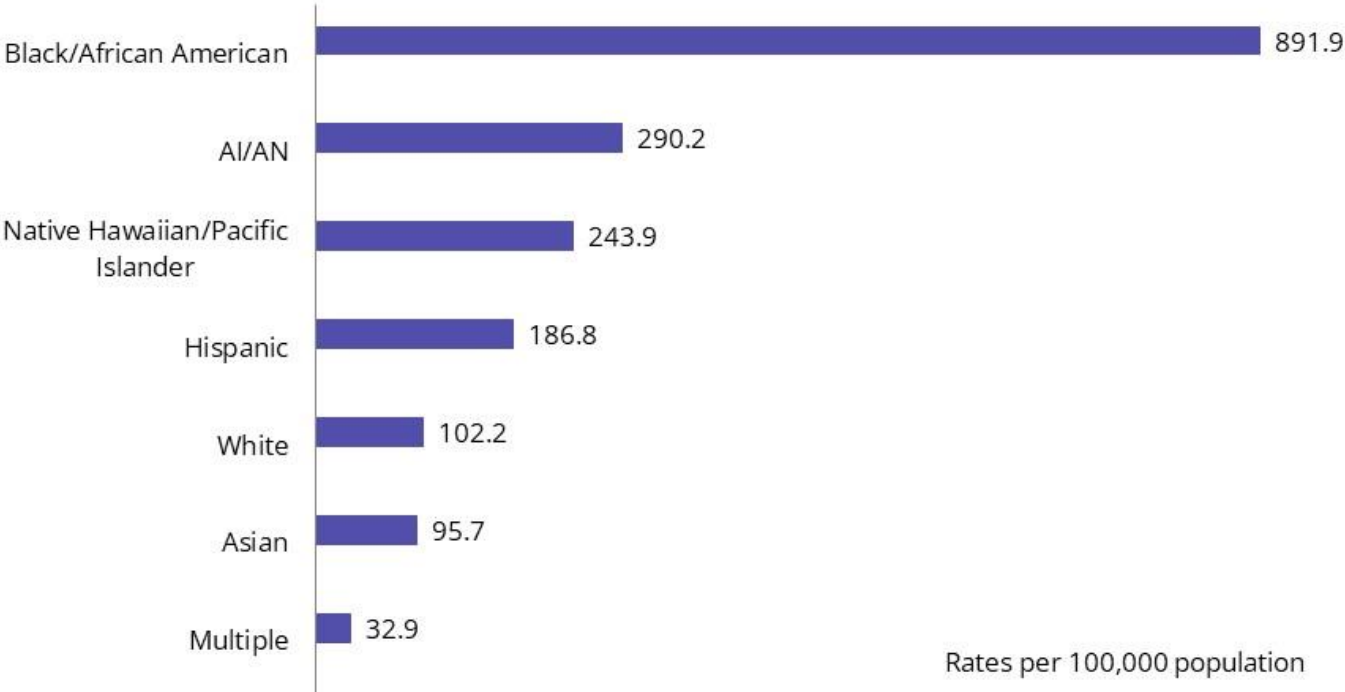
Figure 11. Gonorrhea rates by local health district, Utah, 2021



# Gonorrhea by race/ethnicity

In 2021, the highest gonorrhea rate among the major racial and ethnic groups in Utah was reported among people who are of non-Hispanic Black/African American populations (891.9 cases per 100,000 population), followed distantly by individuals who are of American Indian/Native Alaska and Native Hawaiian or Pacific Islander populations, (891.9, 290.2, and 243.9 cases per 100,000 population, respectively) (Figure 12).

Figure 12. Gonorrhea rates by race/ethnicity, Utah, 2021



# Primary and secondary syphilis

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## Background

Syphilis is a complex sexually transmitted infection comprised of several stages throughout the duration of the infection. The initial stage, primary syphilis, is characterized by a highly infectious, painless open sore at the site of infection called a chancre. Syphilis is passed from person-to-person through direct contact with the chancre. Sexual transmission can also occur during the secondary stage of syphilis when there is widespread hematogenous spread of the organism throughout the body. An infant can acquire syphilis through the placenta. In later stages of the disease, bacteria moves throughout the body, damaging many organs over time. Significant complications typically occur when syphilis is left untreated. Due to the open nature of the syphilitic sores, untreated syphilis facilitates the transmission of the human immunodeficiency virus (HIV).

The P&S stages of syphilis are considered to be the most infectious stages and are the focus of this report. In 2021, 207 cases of P&S syphilis were reported in Utah compared with 133 cases in 2019. The P&S syphilis rate in Utah in 2021 was 6.2 cases per 100,000 persons.

## Rates in Utah

The P&S syphilis rate in Utah has risen and fallen over the past 10 years and has often been inconsistent with the national trend during the same periods of time, either rising or falling much more sharply than what is seen at the national level (Figure 13). In 2012, was 1.5 cases per 100, 000 population but has since increased. In 2021, the rate increased to 6.2 cases per 100,000 population. In 2021, Utah's syphilis rate was 38% of the national rate.

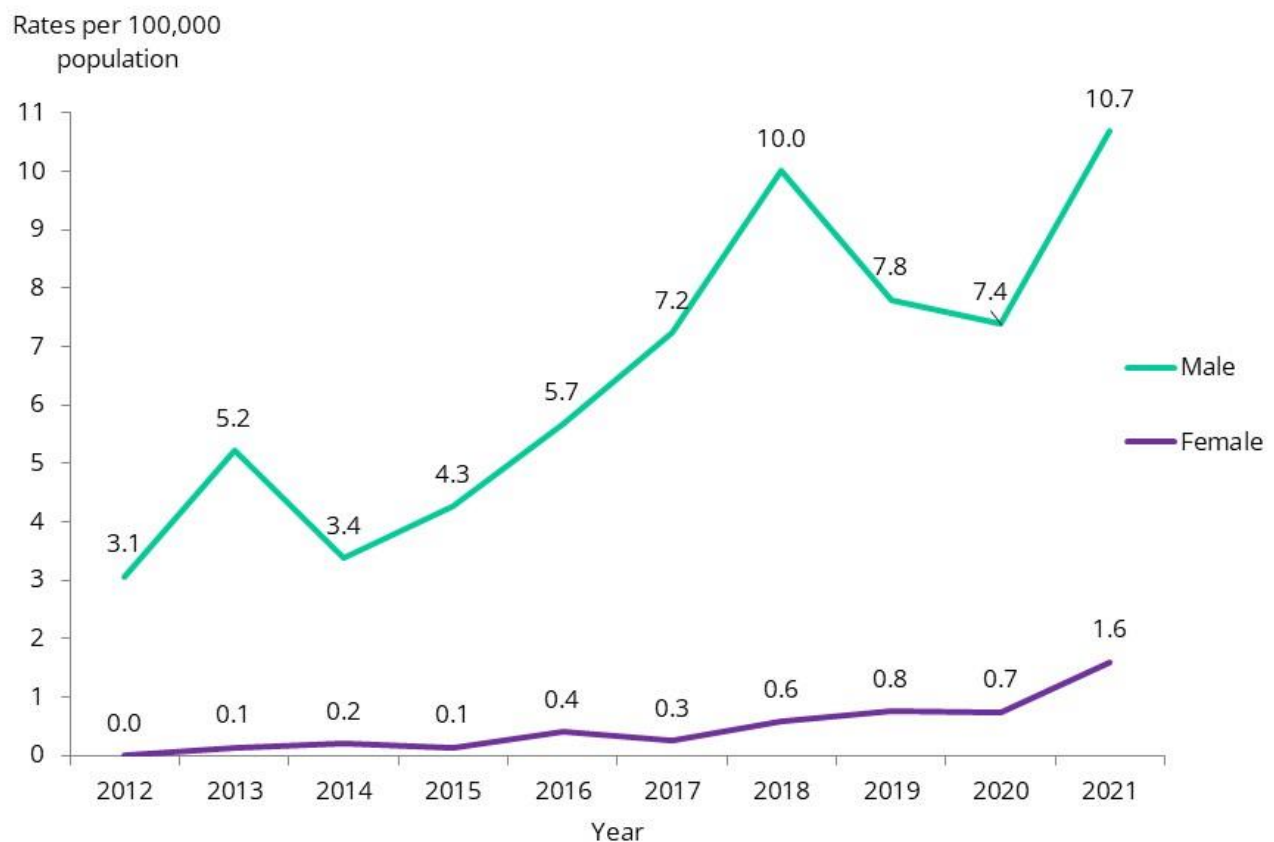
Figure 13. Primary and secondary syphilis rates, Utah and U.S., 2012–2021



## Syphilis by sex

P&S syphilis rates in males were significantly higher than in females throughout the past decade in Utah (Figure 14). No cases of P&S syphilis were diagnosed among females 10 years ago.

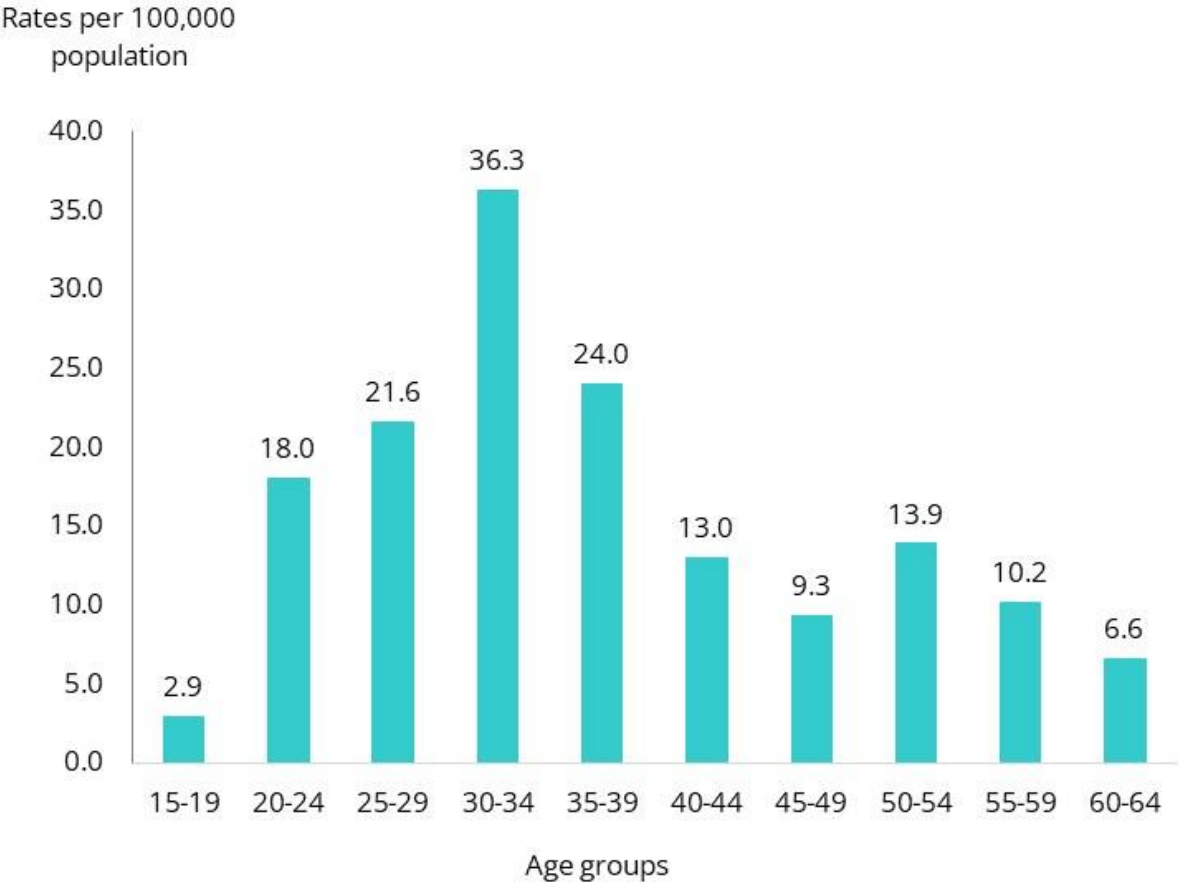
Figure 14. Syphilis rates by sex, Utah, 2012–2021



# Syphilis by age group

The highest P&S syphilis rates in Utah in 2021 were among men aged 30–34 (20.1 cases per 100,000 population) and men aged 35–39 (24.0 cases per 100,000 population) (Figure 15). P&S syphilis cases were reported in all the 15–64 age groups. This highlights the need to target prevention messages to a wide range of age groups.

Figure 15. Primary and secondary syphilis rates in males by age group, Utah, 2021

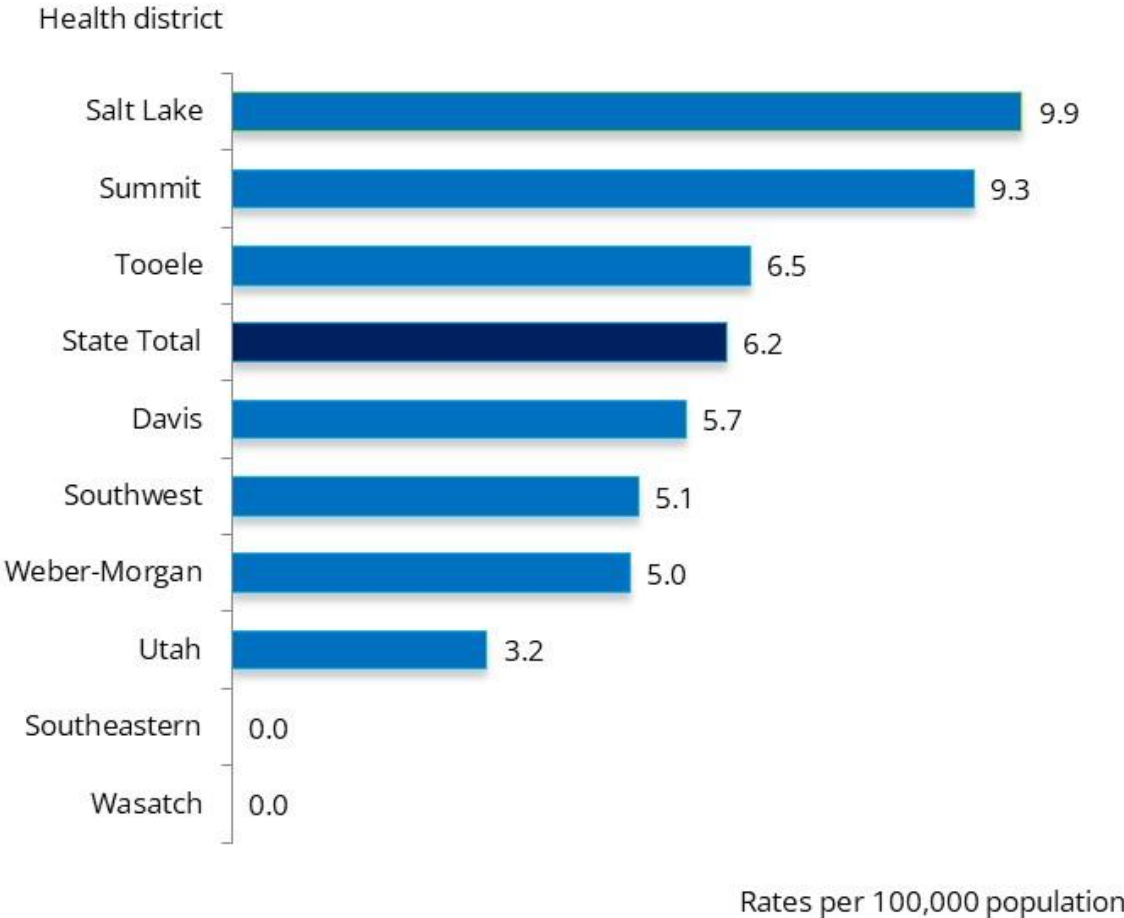




# Local syphilis by health district

In 2021, 11 health districts in Utah reported P&S syphilis cases (Figure 16). Salt Lake County health district accounted for 57% of the P&S cases in Utah in 2021, with a rate of 9.9 cases per 100,000 population.

Figure 16. Primary and secondary rates by local health district, Utah, 2021

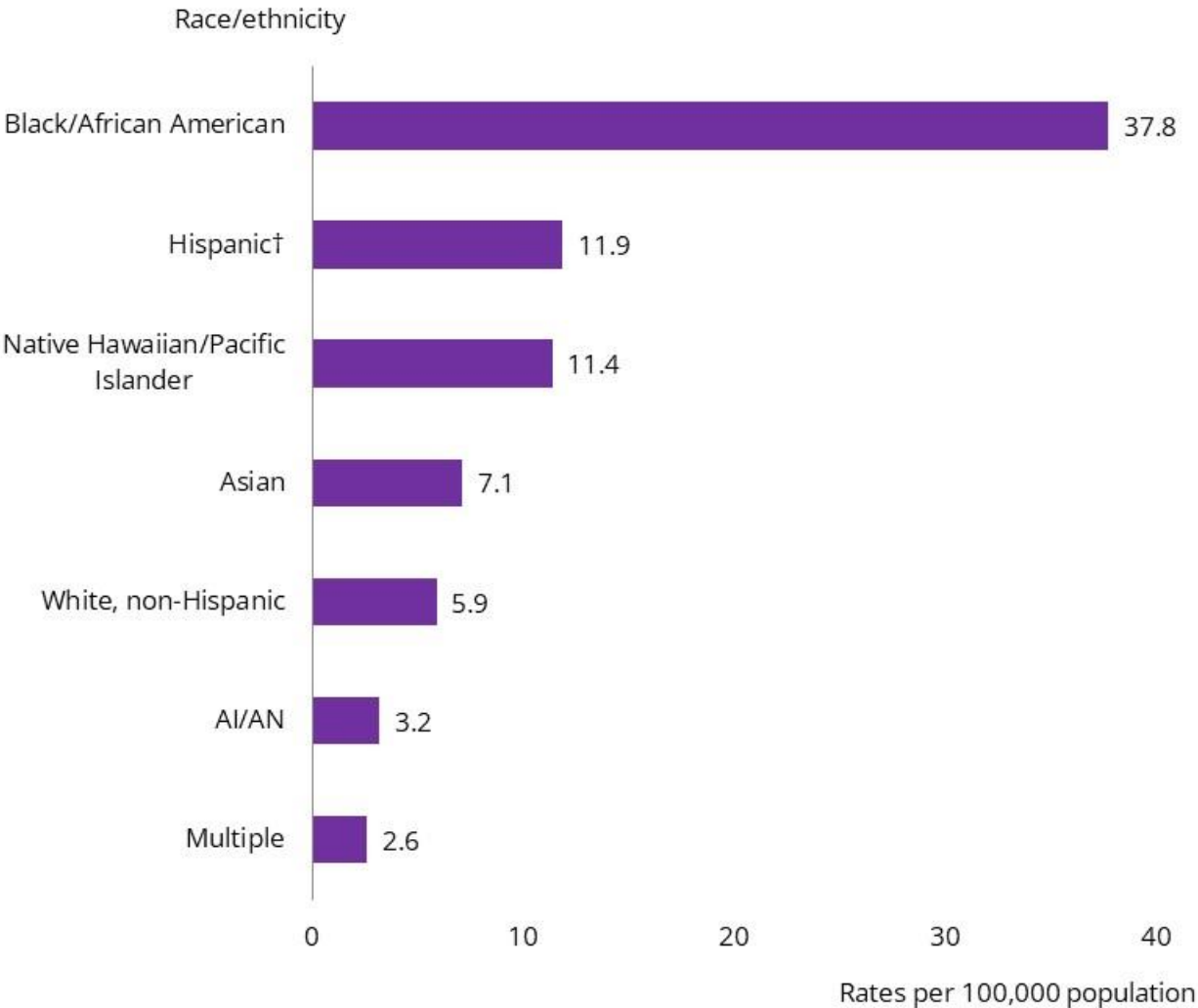


Note: LHDs with suppressed P&S syphilis rates are not displayed on the graph.

# Syphilis by race/ethnicity

Of the 207 cases of P&S syphilis reported in Utah in 2021, the highest rates were among the following racial and ethnic groups: people who are of Hispanic populations (11.9 cases per 100,000) and people who are of non-Hispanic White populations (5.9 cases per 100,000 population) (Figure 17).

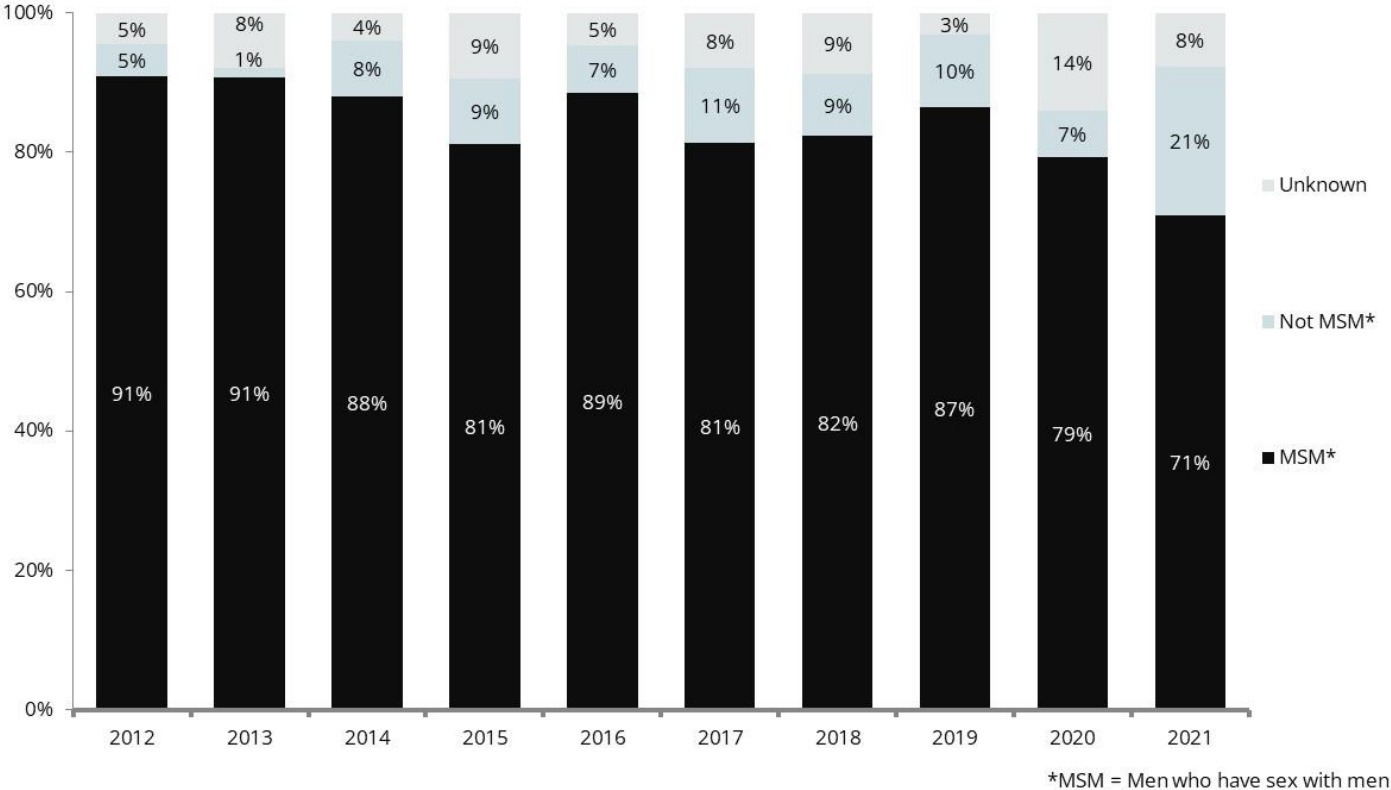
Figure 17. Primary and secondary syphilis rates by race/ethnicity 2021.



# Syphilis by sexual orientation

Since 2012, the majority of male syphilis cases have been among MSM. In 2021, 71% of the P&S cases in men have been among MSM (Figure 18).

Figure 18. Primary and secondary rates by sexual orientation, Utah, 2012–2021



# Chlamydia and gonorrhea in adolescents and young adults

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In both Utah and the United States, adolescents 15 to 19 years of age and young adults aged 20 to 24 have higher incidences of chlamydia and gonorrhea. In 2021, people aged 15 to 24 represented 16% of Utah's population; yet this population accounted for 55% of chlamydia cases and 31% of gonorrhea cases. The increased rate of STIs can be attributed to increased risky sexual behavior among adolescents and young adults and increased screening among this age group.

## Chlamydia

Chlamydia rates steadily increased in people aged 15–19 and 20–24 from 2013 to 2021, except for 2020 (Figure 19). During this 10-year period, the chlamydia rate increased on average by 3% in males aged 15–19, 3% in males aged 20–24. Rates decreased on average by 8% in females aged 15–19 and had an average increase of 2% in females aged 20–24.

Throughout this period, the rate in females aged 15–19 was about 4 times that in males of the same age; in people aged 20–24, the female rate was about twice that of males.

In 2021, the distribution of disease in adolescents and young adults varied by age. Adolescents aged 15 and 16 years old had the lowest rates of chlamydia in both males and females (Figure 20). The rates increased with age and peaked in females at age 21 (2,838.9 cases per 100,000 population) and in males at age 19 (1,118.4 cases per 100,000 population). The rate of chlamydia in females was greater than that of males at every age; and the rate ratios generally decreased with age.

Figure 19. Chlamydia rates by age group and sex in adolescents and young adults, Utah, 2012–2021

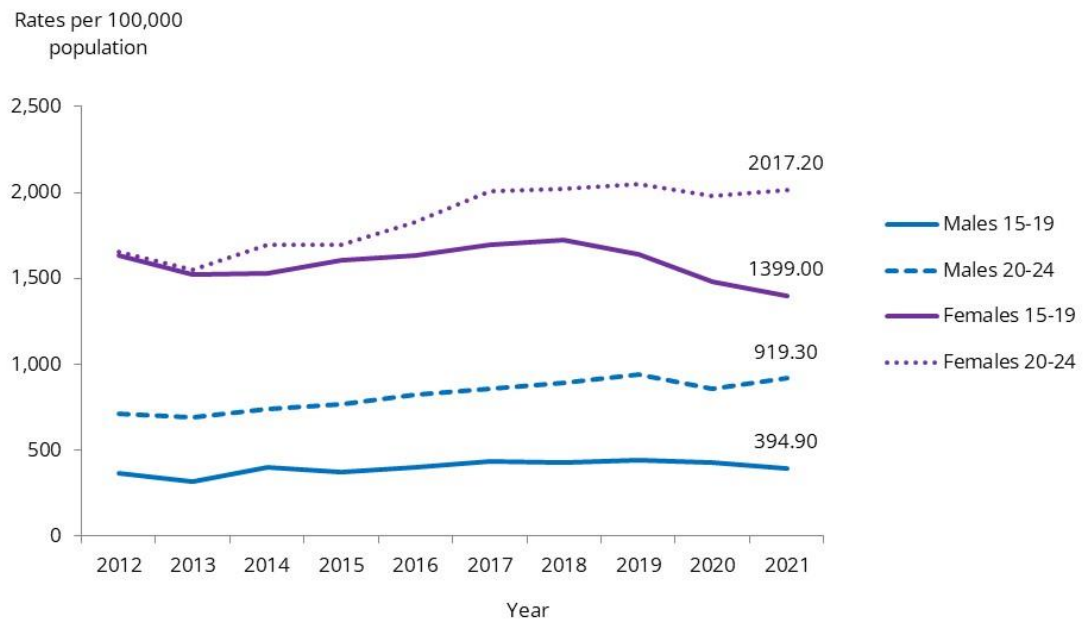
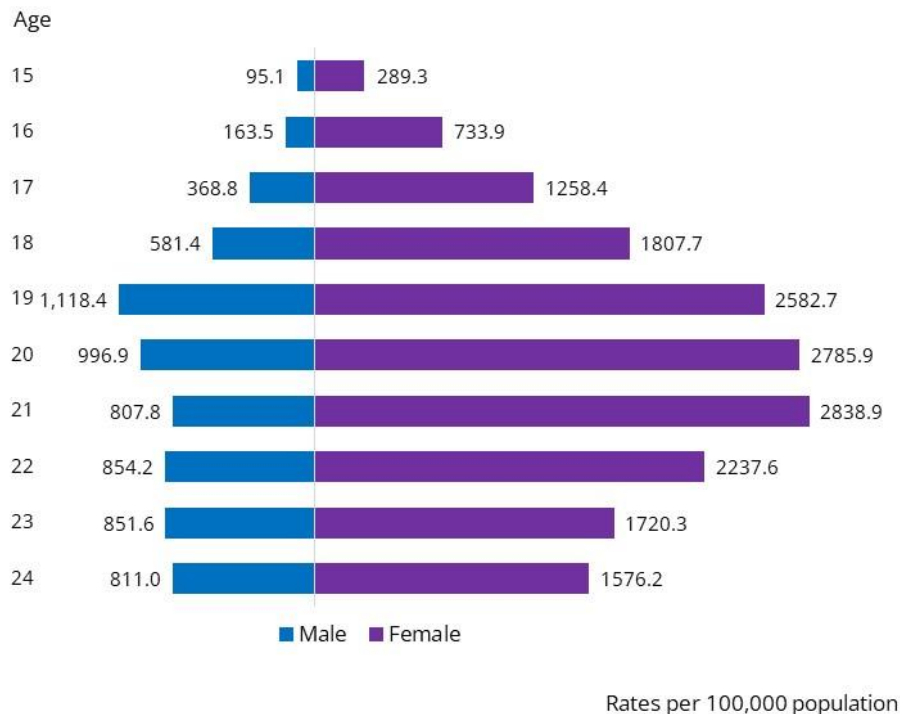


Figure 20. Chlamydia rates by age and sex in adolescents and young adults, Utah, 2021



## Gonorrhoea

Gonorrhoea rates in those aged 15–24 have continued on a general upward trend since 2012; previously, rates had declined for several years. Rates in both 15–19-year-olds and 20–24-year-olds increased more than 800% since the lowest rates in the past 10 years.

Previous to 2020, there were general upward trend rates in adolescents and young adults, however, from 2020 to 2021, rates in males 15–19 years of age decreased by 5% and males aged 20–24 years old decreased by 4%. In this same time frame, the rates in females decreased by 6% in females aged 15–19 and 5% in females aged 20–24.

Rates among males and females 15–19 years old have steadily increased in the past 10 years (Figure 21). The rates between the sexes in this age group showed males had more than twice the rate of females in 2012; and females had higher rates from 2013 to 2021. Between 2012–2021, females had an average 33% rate increase compared to the 23% rate increase seen in males.

Among males and females aged 20–24, males have consistently had higher rates of gonorrhoea. In 2012, male rates in this age group were about twice that of female rates; however, in 2013, the gonorrhoea rate of females aged 20–24 more than doubled, rendering the male and female rates similar. From 2013–2019, rates in females in this age group did not increase at the same rate as males. However, in 2019, males saw a decrease in rates by 18% and females saw an increase in rates by 26%. Consequently, in 2021, there was an 11% difference in rates among males and females compared to the 52% difference in rates in 2012.

In 2021, the distribution of disease in adolescents and young adults varied by age (Figure 22). Adolescent males and females aged 15–17 had the lowest gonorrhoea rates. Rates in males were higher than in females of the same age in people 21 years or older. The highest rate in males was among young men 24 years old (324.4 cases per 100,000 population) and the highest rate in females was among young women 20 years old (401.1 cases per 100,000 population).

Figure 21. Gonorrhea in adolescents and young adults, Utah, 2012–2021

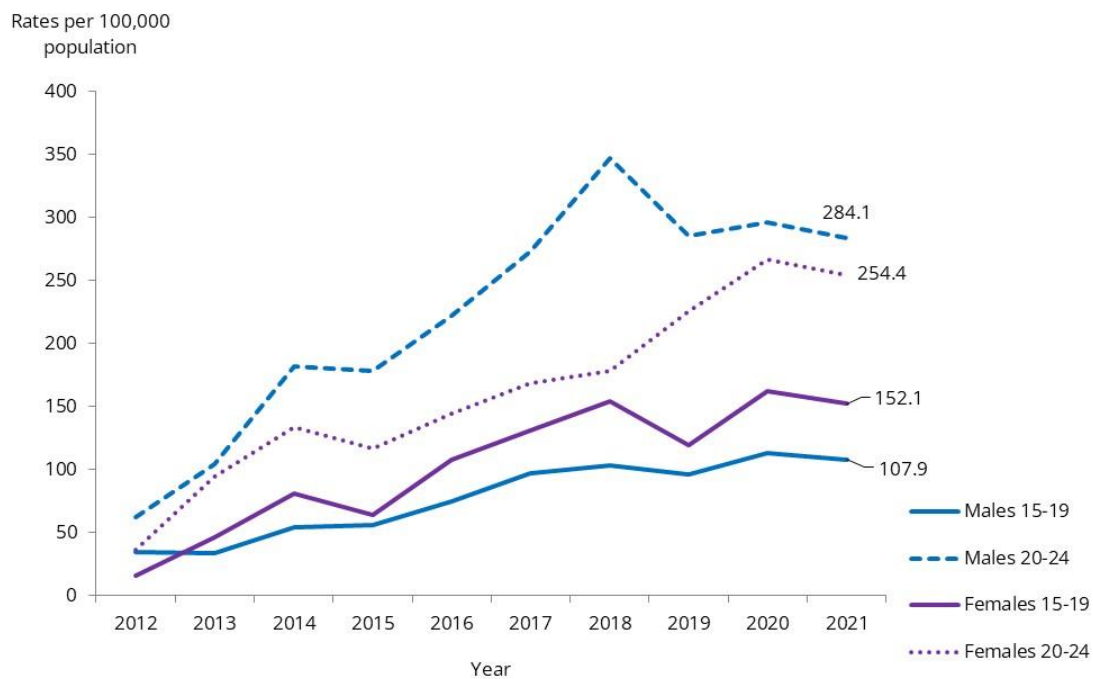
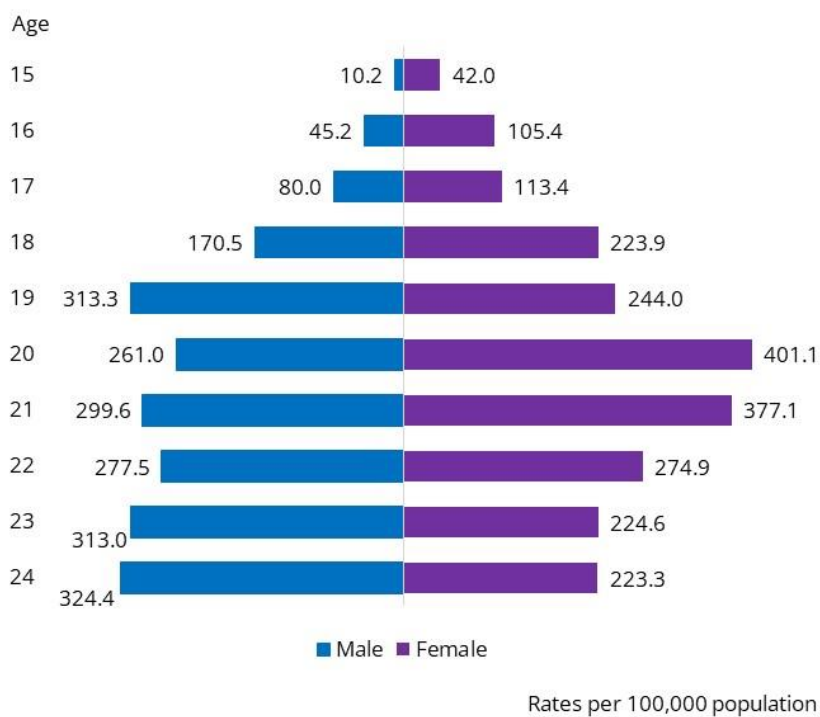


Figure 22. Gonorrhea rates by age and sex in adolescents and young adults, Utah, 2021



# Tables

Table 1. Cases of sexually transmitted diseases and rates per 100,000 population, Utah and United States (U.S.), 2012–2021

Year	Chlamydia			Gonorrhea			Primary and secondary syphilis		
	Utah		U.S.	Utah		U.S.	Utah		U.S.
	Cases	Rate	Rate	Cases	Rate	Rate	Cases	Rate	Rate
2012	7607	266.5	453.3	483	16.9	106.7	44	1.5	5
2013	7501	258.8	443.5	951	32.8	105.3	79	2.7	5.5
2014	8218	279.7	452.2	1440	49.0	109.8	53	1.8	6.3
2015	8611	288.6	475.0	1560	52.3	123.0	66	2.2	7.4
2016	9460	310.8	494.7	2100	69.0	145.0	93	3.1	8.6
2017	10135	326.6	524.6	2541	81.9	170.6	117	3.8	9.4
2018	10558	334.6	537.5	2895	91.8	178.3	168	5.3	10.7
2019	11072	345.6	552.8	2878	89.8	188.4	138	4.3	11.9
2020	10491	322.8	481.3	3120	96.0	206.5	133	4.1	12.7
2021	11226	336.3	495.5	3627	108.7	214	207	6.2	16.2

Note: Cases were classified by *Morbidity and Mortality Weekly Report (MMWR)* year.

Data sources: Utah Department of Health and Human Services Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system) and population data from Utah Population Committee estimates by the Kem C. Gardner Policy Institute.



Table 2. Chlamydia cases and rates by age group and sex, Utah, 2012-2021

Age groups																					
Sex (years)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
M a l e	<1	<11	<11	0	0	<11	<11	<11	<11	0	0	19.4*	—	0.0	0.0	—	—	—	—	0.0	0.0
	1 to 9	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	10 to 14	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	4.1*	—	—	6.2*	7.6*	5.2*	5.1*	—	—	—
	15 to 19	410	362	458	439	483	535	542	569	563	549	367.7	318.9	397.9	373.1	399.5	432.3	428.0	440.6	431.1	394.9
	20 to 24	875	866	934	979	1061	1117	1185	1276	1188	1330	714.7	691.5	741.9	767.0	822.7	855.1	890.4	940.4	857.1	919.3
	25 to 29	544	616	656	646	761	831	801	953	875	947	493.2	567.2	597.0	577.7	646.5	672.5	630.2	737.6	665.3	730.2
	30 to 34	322	316	336	357	463	446	532	522	491	595	280.1	273.6	293.5	315.8	416.1	405.6	484.3	466.6	430.3	502.0
	35 to 39	149	161	194	218	291	258	297	363	327	317	152.3	157.3	182.2	197.2	254.8	221.6	252.3	309.1	281.4	253.6
	40 to 44	71	79	112	121	159	131	145	187	184	226	83.6	90.6	125.5	132.5	169.0	132.7	139.9	172.9	163.1	196.5
	45 to 49	49	45	56	64	92	88	99	97	105	102	64.7	59.7	73.3	81.3	111.9	103.6	113.1	107.8	113.9	105.1
	50 to 54	26	20	44	48	63	46	58	58	71	74	33.8	25.9	57.2	63.0	83.7	61.1	77.1	76.0	90.0	85.7
	55 to 59	<11	<11	13	33	22	45	42	47	43	37	11.3*	6.9*	17.8	44.4	29.2	59.3	54.9	61.4	56.5	47.0
	60 to 64	<11	<11	<11	<11	14	<11	17	21	16	24	—	8.4*	6.4*	14*	20.9	13*	24.0	29.2	21.8	31.6
	65+	0	<11	<11	<11	<11	11	<11	15	<11	<11	0.0	—	—	—	4.7*	7.1*	4.9*	8.8	—	4.9*
Unknown	0	0	0	0	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Male total	2466	2484	2810	2925	3427	3525	3735	4112	3871	4214	171.9	170.4	190.1	194.8	223.6	225.5	235.1	254.8	236.4	248.6	
F e m a l e	<1	<11	<11	0	<11	0	<11	0	0	<11	—	—	0.0	—	0.0	—	0.0	0.0	0.0	—	—
	1 to 9	<11	<11	0	0	0	0	<11	0	<11	<11	—	—	0.0	0.0	0.0	0.0	—	0.0	—	—
	10 to 14	55	37	49	47	53	48	46	43	41	59	47.2	31.0	40.3	38.1	42.3	37.6	35.4	33.0	31.4	43.7
	15 to 19	1743	1651	1684	1815	1900	2018	2099	2051	1871	1840	1630.3	1520.0	1528.4	1605.4	1643.1	1693.1	1720.0	1642.0	1478.6	1399.0
	20 to 24	1991	1890	2088	2079	2246	2499	2553	2641	2603	2736	1656.5	1574.4	1697.9	1692.5	1828.7	2009.2	2019.2	2048.8	1982.6	2017.2
	25 to 29	705	773	792	871	912	1053	1100	1158	1051	1148	663.0	735.0	749.6	808.8	809.4	899.1	916.7	948.5	852.8	941.2
	30 to 34	374	382	457	477	473	483	511	474	501	597	338.0	343.5	412.7	436.4	434.1	447.2	474.6	436.1	452.6	516.5
	35 to 39	156	161	187	224	250	285	271	324	272	323	165.6	163.4	182.6	210.2	226.9	253.0	237.9	284.6	241.3	284.4
	40 to 44	66	78	93	89	122	124	136	141	181	166	80.8	92.8	108.3	101.3	134.7	130.7	136.3	135.2	166.3	146.1
	45 to 49	22	24	36	42	46	63	58	75	53	87	29.6	32.7	48.6	55.2	58.0	76.6	68.4	86.4	59.5	95.0
	50 to 54	16	13	14	27	20	16	29	29	28	28	20.5	16.6	17.9	35.1	26.4	21.4	39.2	38.7	36.3	33.7
	55 to 59	<11	<11	<11	11	<11	14	11	17	11	19	8.3*	8.1*	8*	14.4*	7.7*	17.8	13.9*	21.6	14.1*	24.8
	60 to 64	<11	0	<11	<11	<11	<11	<11	<11	<11	<11	—	0.0	—	—	—	8.3*	6.8*	6.6*	7.8*	6.2*
	65+	<11	0	0	<11	<11	0	<11	<11	<11	0	—	0.0	0.0	—	—	0.0	—	—	—	0.0
Unknown	0	0	0	0	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Female total	5141	5017	5408	5686	6033	6610	6823	6960	6620	7012	362.2	348.1	370.3	383.6	399.0	429.1	435.7	437.8	410.6	426.7	
T o t a l	<1	<11	<11	0	<11	<11	<11	<11	0	<11	11.9*	—	0.0	—	—	—	—	—	0.0	—	—
	1 to 9	<11	<11	0	0	0	0	<11	0	<11	—	—	0.0	0.0	0.0	0.0	—	0.0	—	—	—
	10 to 14	60	41	51	55	63	55	53	46	45	63	25.1	16.8	20.5	21.8	24.5	20.9	19.8	17.1	16.7	22.7
	15 to 19	2153	2013	2142	2254	2383	2553	2641	2620	2434	2390	985.8	906.2	950.8	977.0	1004.8	1050.8	1062.0	1031.3	946.6	883.5
	20 to 24	2866	2756	3022	3058	3307	3616	3738	3917	3791	4068	1181.3	1114.1	1214.3	1220.9	1313.4	1418.0	1440.4	1480.4	1404.6	1451.3
	25 to 29	1249	1389	1448	1517	1673	1884	1901	2111	1926	2094	576.6	649.7	671.8	691.1	726.2	782.8	769.3	840.1	756.0	832.1
	30 to 34	696	698	793	834	936	929	1043	996	992	1191	308.5	307.9	352.1	375.1	425.0	426.2	479.5	451.6	441.3	508.7
	35 to 39	305	322	381	442	541	543	568	687	599	640	158.8	160.3	182.4	203.6	241.1	237.0	245.2	297.0	261.6	268.3
	40 to 44	137	157	205	210	281	255	281	328	365	391	82.2	91.7	117.1	117.2	152.2	131.7	138.1	154.4	164.7	171.1
	45 to 49	71	69	92	106	138	151	157	172	158	189	47.3	46.4	61.2	68.4	85.4	90.3	91.1	97.3	87.2	100.2
	50 to 54	42	33	58	75	83	62	87	87	99	102	27.1	21.2	37.4	49.0	55.0	41.4	58.3	57.5	63.4	60.2
	55 to 59	14	11	19	44	28	59	53	64	54	56	9.8	7.5*	12.8	29.1	18.3	38.2	34.1	41.2	35.1	36.1
	60 to 64	<11	<11	<11	<11	17	15	22	26	22	29	—	4.1*	4.7*	7.6*	12.4*	10.6	15.2	17.6	14.6	18.6
	65+	<11	<11	<11	<11	<11	11	<11	17	<11	<11	—	—	—	—	2.8*	3.3*	2.9*	4.7	1.3*	2.3*
Unknown	0	0	0	0	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total cases	7607	7501	8218	8611	9460	10135	10558	11072	10491	11226	266.5	258.8	279.7	288.6	310.8	326.6	334.6	345.6	322.8	336.3	

Note: Cases were classified by *Morbidity and Mortality Weekly Report (MMWR)* year.

Data sources: Utah Department of Health and Human Services Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system) and population data from Utah Population Committee estimates by the Kem C. Gardner Policy Institute.

\* Use caution in interpreting, the estimate has a relative standard error greater than 30% and does not meet DHHS standards for reliability. Rate estimates with relative standard errors greater than 50% have been suppressed.

Table 3. Chlamydia cases and rates by local health district, Utah, 2012-2021

Local health district	Cases										Rates per 100,000 population									
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Bear River	295	251	267	348	354	353	394	391	381	427	175.2	147.6	155.6	200.1	199.3	195.5	214.3	209.4	201.1	213.8
Central	81	91	110	91	89	106	123	135	118	146	107.2	119.9	144.4	118.3	113.8	133.4	152.4	164.8	142.4	181.6
Davis	866	891	954	891	968	1143	1145	1154	954	965	274.0	276.4	290.1	266.1	283.7	329.5	326.1	324.8	265.6	262.7
Salt Lake	3932	3792	4279	4579	5107	5328	5289	5709	5454	5830	369.5	351.2	392.4	415.3	455.7	468.5	460.3	492.8	467.9	491.4
San Juan	N/A	N/A	N/A	55	54	59	43	55	15	41	N/A	N/A	N/A	360.6	351.9	386.0	280.4	361.2	98.2	283.0
Southeastern	147	168	126	69	69	70	100	91	69	81	259.9	299.8	225.7	171.3	171.7	175.9	250.0	225.8	169.5	202.5
Southwest	356	380	432	410	460	556	653	701	651	672	169.8	179.0	199.2	185.2	201.7	235.5	267.3	277.3	249.0	247.0
Summit	63	74	91	89	120	118	116	132	129	111	166.3	192.5	232.5	224.3	295.8	285.2	277.0	313.7	303.5	257.6
Tooie	118	141	143	164	159	194	187	188	176	197	197.3	232.5	232.6	261.7	246.0	287.4	267.3	260.7	236.2	257.0
TriCounty	90	112	137	118	124	111	147	97	107	126	164.4	197.2	235.2	197.8	215.4	197.9	261.1	171.2	188.1	221.2
Utah	791	774	940	974	1021	1180	1270	1362	1411	1603	146.5	140.3	167.5	169.9	172.7	194.2	204.2	214.3	216.7	234.0
Wasatch	42	38	35	29	46	42	46	57	52	51	165.7	143.0	125.8	99.6	151.2	131.1	138.2	166.6	147.3	141.0
Weber-Morgan	823	789	702	794	885	875	1043	1000	970	970	334.4	317.8	279.9	312.6	342.3	332.3	390.0	367.9	352.6	346.8
Unknown	<11	0	<11	0	<11	0	<11	0	<11	<11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
State total	7,607	7,501	8,218	8,611	9,460	10,135	10,558	10,491	10,487	11,226	266.5	258.8	279.7	288.6	310.8	326.6	334.6	345.6	322.8	336.3

Note: Cases were classified by *Morbidity and Mortality Weekly Report (MMWR)* year.

Data sources: Utah Department of Health and Human Services Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system) and population data from Utah Population Committee estimates by the Kem C. Gardner Policy Institute.

\* Use caution in interpreting, the estimate has a relative standard error greater than 30% and does not meet DHHS standards for reliability. Rate estimates with relative standard errors greater than 50% have been suppressed.

Table 4. Chlamydia cases and rates by race/ethnicity, Utah, 2012-2021

Race/ethnicity	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
AI/AN	200	204	186	157	174	167	176	169	154	245	728.3	738.7	665.6	556.6	610.2	578.8	604.7	571.1	511.2	789.9
Asian	117	119	140	141	185	211	222	192	185	266	192.4	188.7	213.4	207.4	258.3	279.8	284.6	239.3	224.4	314.2
Black/African American	301	325	357	336	438	477	526	561	511	646	1071.7	1122.3	1204.3	1101.3	1359.4	1399.2	1486.0	1523.6	1343.1	1627.7
Hispanic <sup>†</sup>	1965	1978	1944	2150	2417	2583	2657	2994	2898	3191	523.0	513.8	494.1	531.4	577.5	595.5	594.1	652.1	614.4	646.4
White, Non-Hispanic	4845	4678	5123	4948	5534	5884	6098	6067	5502	8298	212.0	202.1	219.0	209.1	230.2	241.3	247.1	243.0	218.1	321.9
Native Hawaiian/Pacific Islander	146	141	190	197	232	295	287	292	339	300	572.8	534.9	702.3	702.9	796.4	977.5	912.2	898.6	1008.4	855.5
2 or more	25	28	35	35	42	64	52	78	46	52	49.0	52.7	63.4	60.9	69.7	101.1	78.9	113.5	64.2	68.4
Other/Unknown	<11	28	243	647	438	454	540	719	856	1,419	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
State total	7,607	7,501	8,218	8,611	9,460	10,135	10,558	11,072	10,491	11,226	266.5	258.8	279.7	288.6	310.8	326.6	334.6	345.6	322.8	336.3

<sup>†</sup> Includes persons of Hispanic ethnicity regardless of race.

Note: Cases were classified by *Morbidity and Mortality Weekly Report (MMWR)* year.

Data sources: Utah Department of Health and Human Services Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system) and population data from Utah Population Committee estimates by the Kem C. Gardner Policy Institute.

Table 5. Gonorrhea cases and rates by age group and sex, Utah, 2012-2021

Sex	Age groups (years)	Cases										Rates per 100,000 population									
		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
M a l e	<1	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1 to 9	0	0	0	0	0	0	0	0	0	<11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—
	10 to 14	0	<11	0	<11	<11	0	0	0	0	0	0.0	—	0.0	—	—	0.0	0.0	0.0	0.0	0.0
	15 to 19	39	38	62	66	90	120	131	124	148	150	35.0	33.5	53.9	56.1	74.4	97.0	103.4	96.0	113.3	107.9
	20 to 24	76	131	229	228	286	357	462	388	410	411	62.1	104.6	181.9	178.6	221.8	273.3	347.2	285.9	295.8	284.1
	25 to 29	65	133	200	266	311	390	423	456	428	529	58.9	122.5	182.0	237.9	264.2	315.6	332.8	352.9	325.4	407.9
	30 to 34	60	100	150	163	257	272	343	333	335	444	52.2	86.6	131.0	144.2	231.0	247.4	312.3	297.6	293.6	374.6
	35 to 39	34	60	97	122	170	219	232	224	238	287	34.8	58.6	91.1	110.3	148.9	188.1	197.1	190.7	204.8	229.6
	40 to 44	27	41	49	70	111	105	139	137	153	205	31.8	47.0	54.9	76.7	118.0	106.3	134.1	126.6	135.6	178.3
	45 to 49	26	29	40	45	80	95	83	77	84	141	34.3	38.4	52.4	57.2	97.3	111.9	94.8	85.6	91.1	145.3
	50 to 54	12	33	28	51	38	53	68	59	58	109	15.6	42.8	36.4	67.0	50.5	70.5	90.4	77.3	73.5	126.3
	55 to 59	<11	<11	13	35	25	35	46	35	40	66	14.1*	12.4*	17.8	47.0	33.2	46.1	60.2	45.7	52.5	83.8
	60 to 64	0	<11	<11	<11	11	18	17	23	26	36	0.0	—	11.3*	6.2*	16.4*	26.0	24.0	32.0	35.5	47.4
	65+	0	0	0	<11	<11	<11	12	13	<11	13	0.0	0.0	0.0	3.5*	—	4.5*	7.4	7.6	5.0*	7.1
Unknown	0	0	0	0	0	0	0	<11	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Male total	349	578	875	1,056	1,384	1,671	1,956	1,870	1,929	2,392	24.3	39.7	59.2	70.3	90.3	106.9	123.1	115.8	117.8	141.1	
F e m a l e	<1	0	0	<11	0	0	0	0	0	0	0.0	0.0	—	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	1 to 9	0	0	0	0	0	0	<11	0	<11	0.0	0.0	0.0	0.0	0.0	0.0	—	0.0	0.0	—	
	10 to 14	<11	<11	<11	<11	<11	<11	11	<11	<11	—	—	4.1*	4.9*	4.0*	7.0*	8.5*	3.1*	3.8*	—	
	15 to 19	17	50	89	72	125	156	188	149	205	200	15.9	46.0	80.8	63.7	107.5	130.9	154.1	119.3	162.0	152.1
	20 to 24	44	115	165	143	177	210	226	291	350	345	36.6	94.2	134.2	116.4	144.1	168.8	178.7	225.7	266.6	254.4
	25 to 29	23	82	119	108	160	191	198	209	236	227	21.6	78.0	112.6	100.3	142.0	163.1	165.0	171.2	191.5	186.1
	30 to 34	24	57	102	81	130	129	121	159	146	179	21.7	51.3	92.1	74.1	119.3	119.4	112.4	146.3	131.9	154.9
	35 to 39	11	35	52	55	60	85	103	87	102	122	11.7*	35.5	50.8	51.6	54.4	75.5	90.4	76.4	90.5	107.4
	40 to 44	<11	12	18	20	34	37	52	43	73	72	4.9*	14.3	21.0	22.8	37.5	39.0	52.1	41.2	67.1	63.4
	45 to 49	<11	<11	<11	13	16	27	20	38	42	29	5.4*	5.4*	12.2*	17.1	20.2	32.8	23.6	43.8	47.2	31.7
	50 to 54	<11	11	<11	<11	<11	16	<11	21	21	29	5.1*	14.0*	5.1*	6.5*	9.3*	21.4	13.5*	28.0	27.2	34.9
	55 to 59	0	<11	<11	<11	<11	<11	<11	<11	<11	<11	0.0	—	—	—	—	7.6*	7.6*	6.3*	11.6*	11.8*
	60 to 64	0	<11	0	0	<11	<11	<11	<11	<11	<11	0.0	—	0.0	0.0	—	5.5*	—	—	—	7.5*
	65+	0	0	0	0	0	0	0	<11	0	<11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	0.0	—
Unknown	0	0	0	0	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Female total	134	373	565	504	716	870	939	1,008	1,191	1,234	9.4	25.9	38.7	34.0	47.4	56.5	60.0	63.4	73.9	74.5	
T o t a l	<1	0	0	<11	0	0	0	0	0	0	0.0	0.0	—	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	1 to 9	0	0	0	0	0	0	<11	0	<11	0.0	0.0	0.0	0.0	0.0	0.0	—	0.0	0.0	—	
	10 to 14	<11	<11	<11	<11	<11	<11	11	<11	<11	—	—	2.0*	2.8*	3.1*	3.4*	4.1*	1.5*	1.9*	—	
	15 to 19	56	88	151	138	215	276	319	273	353	350	25.6	39.6	67.0	59.8	90.7	113.6	128.3	107.5	137.3	129.4
	20 to 24	120	246	394	371	463	567	688	679	760	156	49.5	99.4	158.3	148.1	183.9	222.3	265.1	256.6	281.6	269.7
	25 to 29	88	215	319	374	471	581	621	665	664	756	40.6	100.6	148.0	170.4	204.5	241.4	251.3	264.6	260.6	300.4
	30 to 34	84	157	252	244	387	401	464	492	481	623	37.2	69.3	111.9	109.7	175.7	184.0	213.3	223.1	214.0	266.1
	35 to 39	45	95	149	177	230	304	335	311	340	409	23.4	47.3	71.3	81.5	102.5	132.7	144.6	134.5	148.5	171.4
	40 to 44	31	53	67	90	145	142	191	180	226	277	18.6	31.0	38.3	50.2	78.5	73.4	93.9	84.7	102.0	121.2
	45 to 49	30	33	49	58	96	122	103	115	126	170	20.0	22.2	32.6	37.5	59.4	73.0	59.8	65.0	69.5	90.1
	50 to 54	16	44	32	56	45	69	78	80	79	138	10.3	28.3	20.7	36.6	29.8	46.0	52.3	52.9	50.6	81.4
	55 to 59	<11	12	14	36	26	41	52	40	49	75	7.0*	8.2	9.4	23.8	17.0	26.5	33.5	25.7	31.8	48.3
	60 to 64	0	<11	<11	<11	12	22	19	24	28	42	0.0	4.1*	5.5*	3.0*	8.8	15.6	13.1	16.3	18.6	26.9
	65+	0	0	0	<11	<11	<11	12	14	<11	15	0.0	0.0	0.0	1.6*	—	2.1*	3.4	3.8	2.4*	3.9
Unknown	0	0	0	0	0	0	0	<11	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total cases	483	951	1,440	1,560	2,100	2,541	2,895	2,878	3,120	3,016	16.9	32.8	49.0	52.3	69.0	81.9	91.8	89.8	96.0	108.3	

Note: Cases were classified by *Morbidity and Mortality Weekly Report (MMWR)* year.

Data sources: Utah Department of Health and Human Services Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system) and population data from Utah Population Committee estimates by the Kem C. Gardner Policy Institute.

\* Use caution in interpreting, the estimate has a relative standard error greater than 30% and does not meet DHHS standards for reliability. Rate estimates with relative standard errors greater than 50% have been suppressed.

Table 6. Gonorrhea cases and rates by local health district, Utah, 2012-2021

Local health district	Cases											Rates per 100,000 population										
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		
Bear River	<11	<11	35	17	27	49	53	39	57	62	4.8*	4.1*	20.4	9.8	15.2	27.1	28.8	20.9	30.1	31.0		
Central	<11	<11	<11	<11	<11	<11	24	11	13	28	—	—	9.2*	10.4*	12.8*	11.3*	29.7	13.4*	15.7	34.8		
Davis	41	64	105	93	138	184	217	228	244	254	13.0	19.9	31.9	27.8	40.4	53.0	61.8	64.2	67.9	316.0		
Salt Lake	341	685	1001	1048	1436	1653	1909	1894	1990	2346	32.0	63.4	91.8	95.0	128.1	145.3	166.2	163.5	170.7	197.7		
San Juan	0	0	0	<11	<11	<11	<11	16	<11	13	N/A	N/A	N/A	—	39.1*	32.7*	45.6*	105.1	32.7*	89.7		
Southeastern	<11	<11	<11	<11	<11	19	21	15	12	15	8.8*	8.9*	12.5*	14.9*	14.9*	47.8	52.5	37.2	29.5	37.4		
Southwest	14	16	23	55	56	88	65	84	94	152	6.7	7.5	10.6	24.8	24.6	37.3	26.6	33.2	36.0	55.9		
Summit	<11	<11	<11	<11	11	<11	22	24	25	22	—	13*	23*	25.2*	27.1*	16.9*	52.5	57.0	58.8	51.1		
Tooele	<11	<11	22	28	29	42	26	47	53	76	—	11.5*	35.8	44.7	44.9	62.2	37.2	65.2	71.1	99.2		
TriCounty	<11	<11	<11	12	<11	14	28	25	20	23	—	10.6*	12*	20.1	10.4*	25.0	49.7	44.1	35.2	40.4		
Utah	17	67	97	129	159	201	229	244	328	349	3.1	12.1	17.3	22.5	26.9	33.1	36.8	38.4	50.4	50.9		
Wasatch	0	<11	<11	<11	<11	<11	<11	<11	17	19	0.0	—	—	—	29.6*	25*	—	20.5*	48.2	52.5		
Weber-Morgan	44	85	124	147	206	262	290	243	260	268	17.9	34.2	49.4	57.9	79.7	99.5	108.4	89.4	94.5	95.8		
Unknown	0	0	<11	0	<11	0	0	<11	<11	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
State total	483	951	1,440	1,560	2,100	2,541	2,895	2,878	3,120	3,627	16.9	32.8	49.0	52.3	69.0	81.9	91.8	89.8	96.0	108.7		

Note: Cases were classified by *Morbidity and Mortality Weekly Report (MMWR)* year.

Data sources: Utah Department of Health and Human Services Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system) and population data from Utah Population Committee estimates by the Kem C. Gardner Policy Institute.

\* Use caution in interpreting, the estimate has a relative standard error greater than 30% and does not meet DHHS standards for reliability.

Note: Rate estimates with relative standard errors greater than 50% have been suppressed.

Table 7. Gonorrhea cases and rates by race/ethnicity, Utah, 2012-2021

Race/ethnicity	Cases											Rates per 100,000 population										
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		
AI/AN	14	20	18	25	27	35	46	66	37	90	51.0	72.4	64.4	88.6	94.7	121.3	158.0	223.0	122.8	290.2		
Asian	<11	13	21	22	31	43	46	45	40	81	—	20.6	32.0	32.4	43.3	57.0	59.0	56.1	48.5	95.7		
Black/African American	59	74	104	143	183	193	246	200	277	354	210.1	255.5	350.8	468.7	568.0	566.1	695.0	543.2	728.1	891.9		
Hispanic†	85	173	322	310	479	579	591	719	781	922	22.6	44.9	81.8	76.6	114.4	133.5	132.1	156.6	165.6	186.8		
White	315	660	931	909	1227	1500	1785	1666	1702	2634	13.8	28.5	39.8	38.4	51.0	61.5	72.3	66.7	67.5	102.2		
Native Hawaiian/Pacific Islander	<11	<11	18	23	38	54	50	50	89	86	19.6*	26.6*	66.5	82.1	130.4	178.9	158.9	153.9	264.7	243.9		
Multiple	<11	<11	<11	<11	<11	15	19	18	35	25	—	—	12.7*	8.7*	10*	23.7	28.8	26.2	48.9	32.9		
Other/Unknown	<11	0	19	123	109	122	112	114	159	357	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
State total	483	951	1,440	1,560	2,100	2,541	2,895	2,878	3,120	3,627	16.9	32.8	49.0	52.3	69.0	81.9	91.8	89.8	96.0	108.7		

† Includes persons of Hispanic ethnicity regardless of race.

Note: Cases were classified by *Morbidity and Mortality Weekly Report (MMWR)* year.

The data sources: Utah Department of Health and Human Services Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system) and population data from Utah Population Committee estimates by the Kem C. Gardner Policy Institute.

\* Use caution in interpreting, the estimate has a relative standard error greater than 30% and does not meet DHHS standards for reliability.

Note: Rate estimates with relative standard errors greater than 50% have been suppressed.

Table 8. Gonorrhea cases and percent among males by sexual orientation, Utah, 2012-2021

Year	MSM*		Not MSM*		Unknown		Total
	Cases	Percent	Cases	Percent	Cases	Percent	Cases
2012	180	51.6%	89	25.5%	80	22.9%	349
2013	247	42.7%	226	39.1%	105	18.2%	578
2014	370	42.3%	353	40.3%	152	17.4%	875
2015	450	42.6%	349	33.0%	257	24.3%	1056
2016	537	38.8%	499	36.1%	348	25.1%	1384
2017	635	38.0%	568	34.0%	468	28.0%	1671
2018	851	43.5%	586	30.0%	519	26.5%	1956
2019	743	39.7%	593	31.7%	534	28.6%	1870
2020	623	32.3%	546	28.3%	760	39.4%	1929
2021	1006	42.1%	699	29.2%	687	28.7%	2392

\*MSM=Men who have sex with men

Note: Cases were classified by *Morbidity and Mortality Weekly Report (MMWR)* year.

Data sources: Utah Department of Health and Human Services Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system) and population data from Utah Population Committee estimates by the Kem C. Gardner Policy Institute.

Table 9. Primary and secondary syphilis cases and rates by age group and sex, Utah, 2012-2021

Sex	Age group (years)	Cases										Rates per 100,000 population									
		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
M a l e	<1	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1 to 9	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	10 to 14	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15 to 19	0	0	<11	<11	<11	<11	<11	<11	<11	<11	0.0	0.0	—	—	5.0*	—	6.3*	—	3.1*	2.9*
	20 to 24	<11	<11	<11	<11	15	24	20	20	11	26	4.9*	8*	5.6*	5.5*	11.6	18.4	15.0	14.7	7.9*	18.0
	25 to 29	<11	14	<11	15	12	22	36	23	25	28	9.1*	12.9	8.2*	13.4	10.2	17.8	28.3	17.8	19.0	21.6
	30 to 34	<11	<11	11	<11	<11	14	31	15	25	43	8.7*	8.7*	9.6*	7.1*	9.0*	12.7	28.2	13.4	21.9	36.3
	35 to 39	<11	12	<11	<11	13	18	21	20	16	30	5.1*	11.7	5.6*	8.1*	11.4	15.5	17.8	17.0	13.8	24.0
	40 to 44	<11	<11	<11	<11	<11	<11	17	11	13	15	—	8.0*	4.5*	7.7*	9.6*	9.1*	16.4	10.2*	11.5	13.0
	45 to 49	<11	<11	<11	<11	<11	<11	11	<11	<11	<11	6.6*	6.6*	—	5.1*	6.1*	7.1*	12.6*	11.1*	9.8*	9.3*
	50 to 54	<11	<11	<11	<11	12	<11	<11	12	<11	12	—	10.4*	9.1*	6.6*	15.9	6.6*	12.0*	15.7	11.4*	13.9
	55 to 59	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	—	9.7*	—	—	—	11.9*	—	9.1*	—	10.2*
	60 to 64	0	<11	<11	<11	0	<11	0	<11	<11	<11	0.0	—	—	—	0.0	—	0.0	6.9*	6.8*	6.6*
	65+	0	<11	0	<11	<11	<11	<11	0	<11	<11	0.0	—	—	—	—	—	—	0.0	—	—
Unknown	0	0	0	0	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Male total	44	76	50	64	87	113	159	126	121	181	3.1	5.2	3.4	4.3	5.7	7.2	10.0	7.8	7.4	10.7	
F e m a l e	<1	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	1 to 9	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	10 to 14	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15 to 19	0	<11	0	<11	<11	0	0	<11	<11	0	0.0	—	0.0	—	—	0.0	0.0	—	—	0.0
	20 to 24	0	0	<11	0	<11	<11	<11	<11	0	<11	0.0	0.0	0.0	0.0	—	—	—	—	—	0.0
	25 to 29	0	0	0	0	0	<11	<11	<11	<11	<11	0.0	0.0	0.0	0.0	0.0	—	—	—	4.1*	4.1*
	30 to 34	0	0	0	<11	0	0	<11	<11	<11	<11	0.0	0.0	0.0	—	0.0	0.0	—	—	—	3.5*
	35 to 39	0	<11	<11	0	<11	0	0	0	0	<11	0.0	—	—	0.0	—	0.0	0.0	0.0	0.0	4.4*
	40 to 44	0	0	0	0	0	0	<11	<11	<11	<11	0.0	0.0	0.0	0.0	0.0	0.0	—	—	—	5.3*
	45 to 49	0	0	<11	0	<11	0	0	<11	<11	0	0.0	0.0	—	0.0	—	0.0	0.0	—	—	0.0
	50 to 54	0	0	0	0	<11	0	<11	<11	0	<11	0.0	0.0	0.0	0.0	—	0.0	—	—	—	0.0
	55 to 59	0	0	0	0	0	0	0	0	<11	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	—	0.0
	60 to 64	0	0	0	0	0	0	0	0	0	<11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—
	65+	0	0	0	0	0	0	0	0	0	<11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—
Unknown	0	0	0	0	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Female total	0	<11	<11	<11	<11	<11	<11	12	12	26	0.0	0.1	0.2	0.1	0.4	0.3	0.6	0.8	0.7	1.6	
T o t a l	<1	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1 to 9	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	10 to 14	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15 to 19	0	<11	<11	<11	<11	<11	<11	<11	<11	<11	0.0	—	—	—	3.0*	—	3.2*	1.6*	1.9*	1.5*
	20 to 24	<11	<11	<11	<11	17	27	21	22	11	29	2.5*	4*	3.0*	2.8*	6.8	10.6	8.1	8.3	4.1*	10.3
	25 to 29	<11	14	<11	15	12	23	37	24	30	33	4.6*	6.5	4.2*	6.8	5.2	9.6	15.0	9.6	11.8	13.1
	30 to 34	<11	<11	11	<11	<11	14	35	18	27	47	4.4*	4.4*	4.9*	4.0*	4.5*	6.4	16.1	8.2	12.0	20.1
	35 to 39	<11	13	<11	<11	14	18	21	20	16	35	2.6*	6.5	3.4*	4.1*	6.2	7.9	9.1	8.6	7.0	14.7
	40 to 44	<11	<11	<11	<11	<11	<11	19	13	15	21	—	4.1*	2.3*	3.9*	4.9*	4.6*	9.3	6.1	6.8	9.2
	45 to 49	<11	<11	<11	<11	<11	<11	11	11	<11	<11	3.3*	3.4*	—	2.6*	3.7*	3.6*	6.4*	6.2*	5.5*	4.8*
	50 to 54	<11	<11	<11	<11	13	<11	<11	13	<11	14	—	5.1*	4.5*	3.3*	8.6	3.3*	6.7*	8.6	5.8*	8.3
	55 to 59	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	—	4.8*	—	—	—	5.8*	—	5.1*	—	5.2*
	60 to 64	0	<11	<11	<11	0	<11	0	<11	<11	<11	0.0	—	—	—	0.0	—	0.0	3.4*	3.3*	3.8*
	65+	0	<11	0	<11	<11	<11	<11	0	<11	<11	0.0	—	—	—	—	—	—	0.0	—	—
Unknown	0	0	0	0	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total cases	44	78	53	66	93	117	168	138	133	207	1.5	2.7	1.8	2.2	3.1	3.8	5.3	4.3	4.1	6.2	

Note: Cases were classified by *Morbidity and Mortality Weekly Report (MMWR)* year.  
 Data sources: Utah Department of Health and Human Services Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system) and population data from Utah Population Committee estimates by the Kem C. Gardner Policy Institute.

\* Use caution in interpreting, the estimate has a relative standard error greater than 30% and does not meet DHHS standards for reliability.

Note: Rate estimates with relative standard errors greater than 50% have been suppressed.

Table 10. Primary and secondary syphilis cases and rates by local health district, Utah, 2012-2021

Local health district	Cases										Rates per 100,000 population									
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Bear River	<11	0	0	<11	<11	<11	<11	0	<11	<11	—	0.0	0.0	—	—	—	—	0.0	—	—
Central	0	<11	0	0	0	0	<11	<11	<11	<11	0.0	—	0.0	0.0	0.0	0.0	—	—	—	—
Davis	<11	<11	<11	<11	<11	<11	17	15	<11	21	—	1.9*	—	1.8*	1.5*	1.2*	4.8	4.2	1.9*	5.7
Salt Lake	36	66	40	49	70	87	121	97	89	118	—	6.1	3.7	4.4	6.2	7.6	10.5	8.4	7.6	9.9
San Juan	0	0	0	0	0	0	0	0	<11	<11	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	—	—
Southeastern	0	0	0	0	0	<11	0	<11	0	0	0.0	0.0	0.0	0.0	0.0	—	0.0	—	0.0	0.0
Southwest	<11	0	0	<11	<11	<11	<11	<11	<11	14	—	0.0	0.0	—	2.2*	3.4*	—	2.4*	3.4*	5.1
Summit	0	0	0	0	<11	0	0	<11	<11	<11	0.0	0.0	0.0	0.0	—	0.0	0.0	—	—	9.3*
Tooele	0	<11	<11	0	0	<11	0	0	<11	<11	0.0	—	—	0.0	0.0	—	0.0	0.0	—	6.5*
TriCounty	0	<11	0	0	0	<11	0	0	<11	<11	0.0	—	0.0	0.0	0.0	—	0.0	0.0	—	—
Utah	<11	0	<11	<11	<11	<11	<11	<11	11	22	—	0.0	—	1.0*	1.0*	1.3*	1.1*	0.8*	1.7*	3.2
Wasatch	0	0	<11	0	0	0	0	0	0	0	—	0.0	—	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Weber-Morgan	<11	<11	<11	<11	<11	<11	15	<11	<11	14	—	—	2.0*	—	—	1.9*	5.6	3.3*	1.5*	5.0
Unknown	0	<11	<11	0	0	0	0	0	<11	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
State total	44	79	53	66	93	117	168	138	133	207	1.5	2.7	1.8	2.2	3.1	3.8	5.3	4.3	4.1	6.2

Note: Cases were classified by Morbidity and Mortality Weekly Report (MMWR) year. San Juan County has been an independent LHD since 2015. Prior to 2015, it was served by the Southeast Utah LHD.

Data sources: Utah Department of Health and Human Services Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system) and population data from Utah Population Committee estimates by the Kem C. Gardner Policy Institute.

\* Use caution in interpreting, the estimate has a relative standard error greater than 30% and does not meet DHHS standards for reliability.

Note: Rate estimates with relative standard errors greater than 50% have been suppressed.

Table 11. Primary and Secondary Syphilis Cases and Rates by Race/Ethnicity, Utah, 2012-2021

Race/Ethnicity	Cases										Rates per 100,000 population									
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
AI/AN	<11	<11	0	0	<11	<11	0	<11	<11	<11	—	—	0.0	0.0	—	—	0.0	—	16.6*	—
Asian	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	—	—	—	—	—	—	—	—	—	7.1*
Black/African American	<11	<11	<11	<11	<11	<11	<11	<11	<11	15	—	—	20.2*	—	15.5*	20.5*	19.8*	21.7*	15.8*	37.8
Hispanic <sup>†</sup>	<11	<11	<11	20	18	23	43	32	35	59	—	2.3*	2.3*	4.9	4.3	5.3	9.6	7.0	7.4	11.9
White	36	61	34	43	65	78	107	82	82	154	1.6	2.6	1.5	1.8	2.7	3.2	4.3	3.3	3.3	5.9
Native Hawaiian/Pacific Islander	0	0	<11	0	<11	<11	<11	<11	<11	<11	0.0	0.0	—	0.0	—	—	19.1*	21.5*	—	—
Multiple	0	0	<11	0	<11	<11	<11	<11	<11	<11	0.0	0.0	—	0.0	—	—	—	—	—	—
Other/unknown	0	<11	0	0	0	<11	0	<11	<11	18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
State total	44	79	53	66	93	117	168	138	133	207	1.5	2.7	1.8	2.2	3.1	3.8	5.3	4.3	4.1	6.2

<sup>†</sup> Includes persons of Hispanic ethnicity regardless of race.

Note: Cases were classified by *Morbidity and Mortality Weekly Report (MMWR)* year.

Data sources: Utah Department of Health and Human Services Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system) and population data from Utah Population Committee estimates by the Kem C. Gardner Policy Institute.

Table 12. Primary and secondary syphilis cases and percent among males by sexual orientation, Utah, 2012-2021

Year	MSM*		Not MSM*		Unknown		Total
	Cases	Percent	Cases	Percent	Cases	Percent	Cases
2011	13	92.9%	0	0.0%	1	7.1%	14
2012	40	90.9%	2	4.5%	2	4.5%	44
2013	69	90.8%	1	1.3%	6	7.9%	76
2014	44	88.0%	4	8.0%	2	4.0%	50
2015	52	81.3%	6	9.4%	6	9.4%	64
2016	77	88.5%	6	6.9%	4	4.6%	87
2017	92	81.4%	12	10.6%	9	8.0%	113
2018	131	82.4%	14	8.8%	14	8.8%	159
2019	109	86.5%	13	10.3%	4	3.2%	126
2020	96	79.3%	8	6.6%	17	14.0%	121
2021	147	71.0%	44	21.3%	16	7.7%	207

\*MSM=Men who have sex with men

Note: Cases were classified by Morbidity and Mortality Weekly Report (MMWR) year.

Data sources: Utah Department of Health and Human Services Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system) and population data from Utah Population Committee estimates by the Kem C. Gardner Policy Institute.



Table 13. Chlamydia cases and rates per 100,000 population by age and sex in adolescents and young adults, Utah, 2021

Age	Males		Females		Total	
	Cases	Rates	Cases	Rates	Cases	Rates
15	28	95.1	80	289.3	108	189.2
16	47	163.5	202	733.9	249	442.5
17	106	368.8	344	1,258.4	450	802.5
18	150	581.4	557	1,807.7	707	1,248.9
19	232	1,118.4	688	2,582.7	920	1,941.6
20	233	996.9	639	2,785.9	872	1,883.0
21	240	807.8	670	2,838.9	910	1,707.0
22	237	854.2	521	2,237.6	758	1,485.4
23	253	851.6	406	1,720.3	659	1,299.8
24	225	811.0	367	1,576.2	592	1,155.3

Note: Cases were classified by *Morbidity and Mortality Weekly Report (MMWR)*  
 Data sources: Utah Department of Health and Human Services Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system); Population Estimates - Kem C. Gardner Policy Institute Population Estimates for Utah Counties and Local Health Districts.

Table 14. Gonorrhea cases and rates per 100,000 population by age and sex in adolescents and young adults, Utah, 2021

Age	Males		Females		Total	
	Cases	Rates	Cases	Rates	Cases	Rates
15	3	10.2	11	42.0*	14	24.5
16	13	45.2	29	105.4	42	74.6
17	23	80.0	31	113.4	54	96.3
18	44	170.5	69	223.9	113	199.6
19	65	313.3	65	244.0	130	274.4
20	61	261.0	92	401.1	153	330.4
21	89	299.6	89	377.1	178	333.9
22	77	277.5	64	274.9	141	276.3
23	93	313.0	53	224.6	146	288.0
24	90	324.4	52	223.3	142	277.1

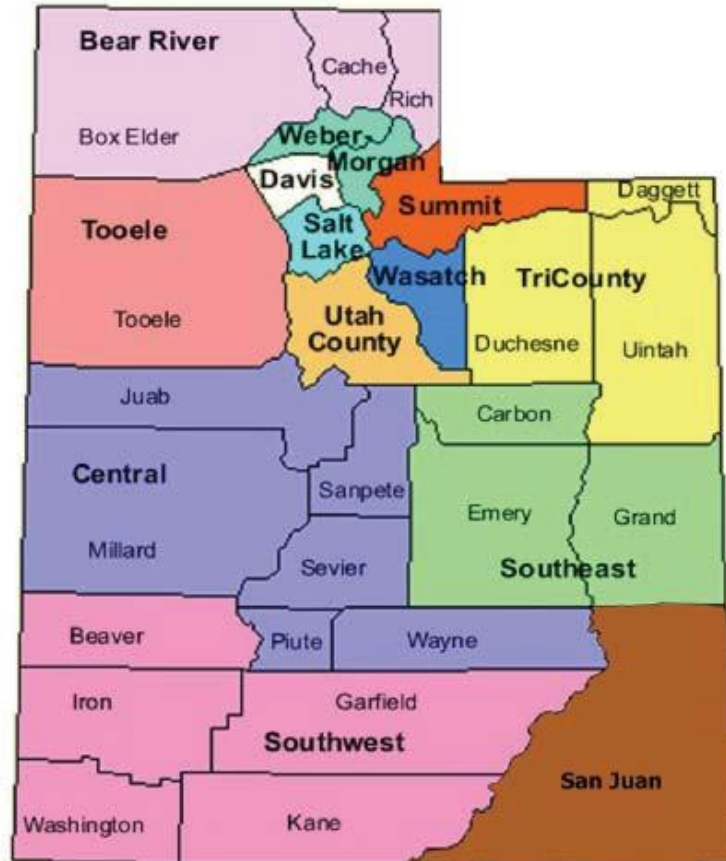
Note: Cases were classified by *Morbidity and Mortality Weekly Report (MMWR)* year.  
 Data sources: Utah Department of Health and Human Services Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system); Population Estimates - Kem C. Gardner Policy Institute Population Estimates for Utah Counties and Local Health Districts.

\* Use caution in interpreting, the estimate has a relative standard error greater than 30% and does not meet DHHS standards for reliability.

Note: Rate estimates with relative standard errors greater than 50% have been suppressed.

# Appendix

## Utah's 13 local health districts



Local health department	Counties in service area
Bear River Health Department	Box Elder, Cache, Rich
Central Utah Public Health Department	Juab, Millard, Piute, Sanpete, Sevier, Wayne
Davis County Health Department	Davis
Salt Lake County Health Department	Salt Lake
San Juan Public Health Department	San Juan
Southeast Utah Health Department	Carbon, Emery, Grand
Southwest Utah Public Health Department	Beaver, Garfield, Iron, Kane, Washington
Summit County Health Department	Summit
Tooele County Health Department	Tooele
TriCounty Health Department	Daggett, Duchesne, Uintah
Utah County Health Department	Utah
Wasatch County Health Department	Wasatch
Weber-Morgan Health Department	Morgan, Weber