

Sexually transmitted infections in Utah: Surveillance report

2011-2020



Acknowledgements

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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

This report presents the sexually transmitted infection (STI) epidemic in Utah to assist with education, outcome monitoring, and program planning. It summarizes 2020 surveillance data for major notifiable STIs in Utah: chlamydia, gonorrhea, and syphilis and focuses on new 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 10,491 cases and 3,120 cases reported in 2020, respectively.

In collaboration with the 13 local health departments (LHDs) throughout the state, each syphilis, gonorrhea, and some chlamydia cases is investigated, and each case is provided with 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 among all states in 2020 for the total number of diagnoses of chlamydia (46), gonorrhea (45), and primary and secondary syphilis (45), and 36 for diagnoses of congenital syphilis.
- 2020 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: 84% of chlamydia infections, 90% of gonorrhea infections, and 84% of P&S syphilis infections in 2020.
- Racial and ethnic minorities continue to shoulder a disproportionate burden of STIs in Utah.

- The rate of chlamydia had been increasing, however, in 2020 there was a decrease by a rate of 6.6% from 2019.
- Almost two-thirds of the chlamydia cases reported in 2020 were among persons aged 15-24.
- The rate of gonorrhea has increased 882% since 2011 (the lowest rate reported in the time frame).
- In 2020, 61% of gonorrhea cases were among persons aged 20-34.
- The rate of P&S syphilis has increased 250% since 2010 to 4.2 cases per 100,000 persons.
- Since 2011, more than 79% of P&S syphilis cases in men have been among men who have sex with men (MSM).

Introduction

This report consists of 6 sections: one 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 Department of Health and Human Services (DHHS) Office of Communicable Diseases within 3 working days of identification. Upon receipt, these reports are entered into 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 the National Center for Health Statistics (NCHS) through a collaborative agreement with the U.S. Census Bureau.

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.

¹Utah Code Annotated. R386-702 Communicable Disease Rule. http://www.rules.utah.gov/publicat/code/r386/r386-702.htm

Impacts of the COVID-19 pandemic

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 should be interpreted cautiously.

Chlamydia

Background

Chlamydia trachomatis infections continue to be the most frequently reported communicable disease in both Utah and the United States.² In 2020, 10,491 cases of chlamydia were reported in Utah. Between 2011 and 2020², Utah's chlamydia rate was an average of 60% of the U.S. rate (Figure 1).³ Utah's chlamydia rate increased 29% from 250.7 cases per 100,000 population in 2011 to 322.7 cases per 100,000 population in 2020. The increase in chlamydia rates may be an actual increase in disease trends or the results 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 in Utah 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 with chlamydia can pass the infection to their infants during delivery, potentially resulting in pneumonia or neonatal ophthalmia.

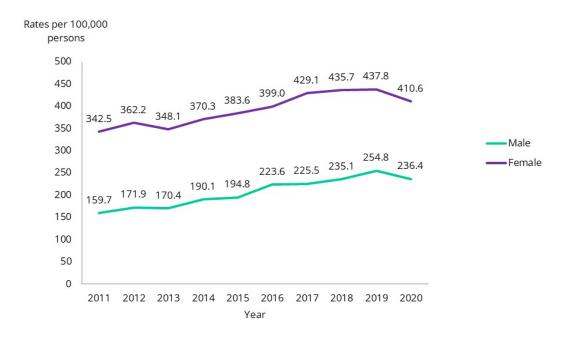
²Centers for Disease Control and Prevention (2020) Tables-Sexually Transmitted Disease Surveillance data, 2020.

³Centers for Disease Control and Prevention. Sexually Transmitted Disease Surveillance 2019. Atlanta: U.S. Department of Health and Human Services; 2020.

Figure 1. Chlamydia rates, Utah and United States, 2011–2020



Figure 2. Chlamydia rates by sex, Utah and United States, 2011–2020



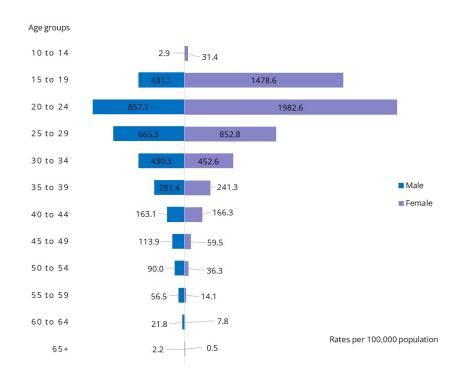
Chlamydia by age group

During the 2011–2020 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

Nearly two-thirds of the chlamydia cases reported in Utah in 2020 were among people aged 15–24. The highest rates of infection were reported among females aged 20–24 (1982.6 cases per 100,000 population) and aged 15–19 (1,478.6 cases per 100,000 population). The highest rate of infection reported in males was among men aged 20–24 (857.1 cases per 100,000 population) (Figure 3).

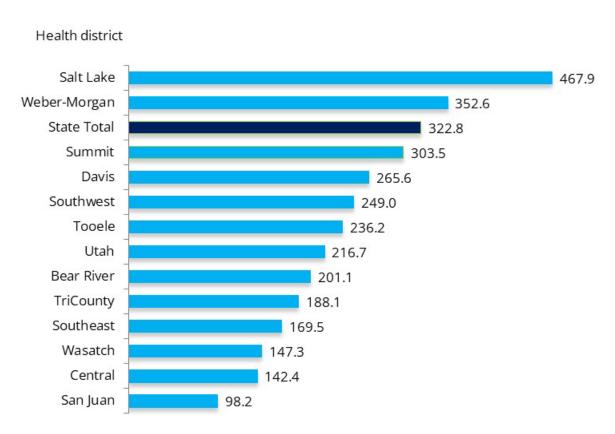
Figure 3. Chlamydia rates by age group and sex among persons aged >= 10 years, Utah, 2020



Chlamydia by region

In 2020, 2 LHDs in Utah had chlamydia rates higher than the state rate: Salt Lake County health district (4467.9 cases per 100,000 population) and Weber-Morgan health district (352.6 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 (13.4% of cases), Davis (9.1% of cases), and Weber-Morgan (9.3% of cases).

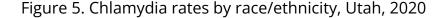
Figure 4. Chlamydia rates by local health district, Utah, 2020

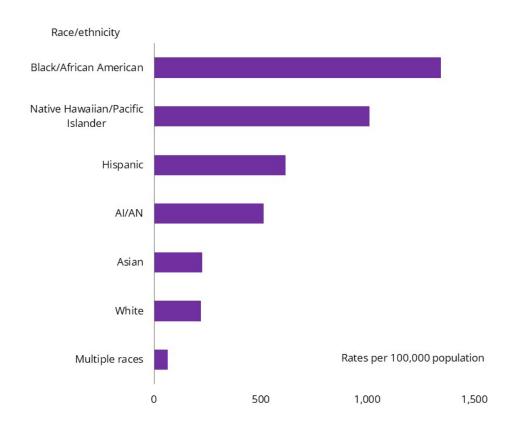


Rates per 100,000 population

Chlamydia by race/Hispanic ethnicity

In 2020, 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 (1,343.1 cases per 100,000 population) and individuals of Native Hawaiian or Pacific Islander populations (1,008.4 cases per 100,000 population), followed by those of Hispanic populations and individuals of American Indian/Alaska Native populations (614.4 and 511.2 cases per 100,000 population, respectively) (Figure 5). Racial/ethnic minorities continued to be disproportionately affected by chlamydia in 2020. In comparison, rates among people who are of non-Hispanic White populations were 218.1 cases per 100,000 population.

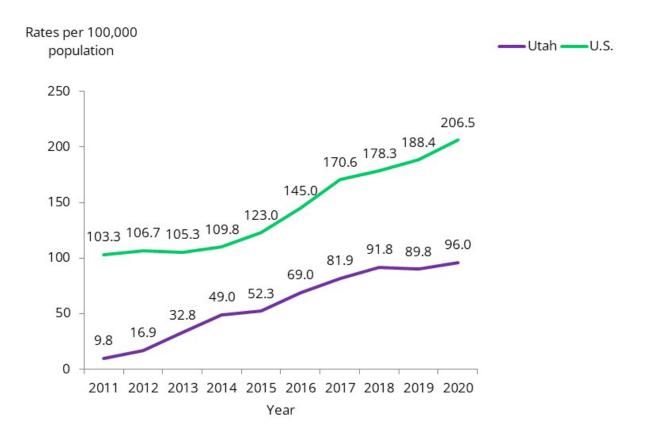




Gonorrhea

In 2020, 3,120 cases of gonorrhea were reported in Utah. Gonorrhea was the second most frequently reported communicable disease in Utah in 2020 and in the United States in 2018.^{4, 5} Utah's gonorrhea rate was 46.3% of the U.S. rate in 2020, up from 9.5% of the U.S. rate in 2011 (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 reported of 9.8 in 2011. The rate increased to 96.0 cases per 100,000 population in 2020, an increase of 880% from the 2011 rate.

Figure 7. Gonorrhea rates, Utah and United States, 2011-2020



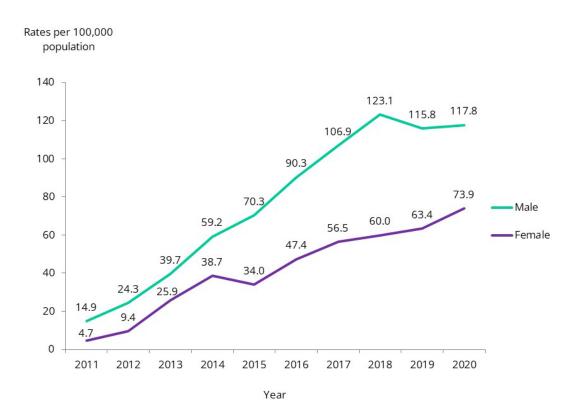
⁴Utah Department of Health (2019). <u>Utah Monthly Communicable Disease Report, November 2019</u>.

⁵Centers for Disease Control and Prevention. Sexually Transmitted Disease Surveillance 2019. Atlanta: U.S. Department of Health and Human Services; 2020.

Gonorrhea by sex

Gonorrhea rates among males in Utah have consistently been higher than among females over the past 10 years (Figure 8); from 2010 to 2012, males had rates at least 2.6 times higher than females. However, in 2013 and 2014 rates among males were only 1.5 times higher due to a large increase of gonorrhea in females. Rates among males were about 2 times higher than females from 2016 to 2020. Two-thirds of male gonorrhea cases in 2011 were among MSM. This percentage has decreased from 62% in 2011 to 36% in 2020; however, the percentage of cases associated with unknown sexual orientation has increased from 15% in 2011 to 42% in 2020 (Figure 12).

Figure 8. Gonorrhea rates by sex, 2011–2020



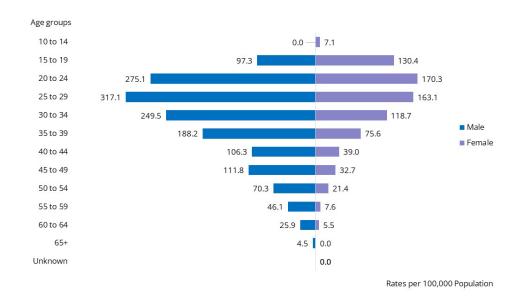
Adverse health effects from gonorrhea

Untreated gonorrhea infections can damage the reproductive system in both males and females. Females with gonorrhea infection are at risk for developing pelvic inflammatory disease (PID). Males with 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 with gonorrhea can pass the infection to their infant during delivery, potentially resulting in ophthalmia neonatorum.

Gonorrhea by age

In 2020, 81.9% of the reported gonorrhea cases in Utah were among persons aged 20–34. In males, the highest rates of infection were in the persons aged 25–29 age group (325.4 cases per 100,000 population) followed by persons aged 30–34 and the persons aged 20–24 group (293.6 and 295.8 cases per 100,000 population, respectively) (Figure 9). In females, the highest rate of infection was among persons aged 20–24 (266.6 cases per 100,000 population). Although the rates were lower, the largest percentage rate increase from 2019 to 2020 was among people aged 60–64.

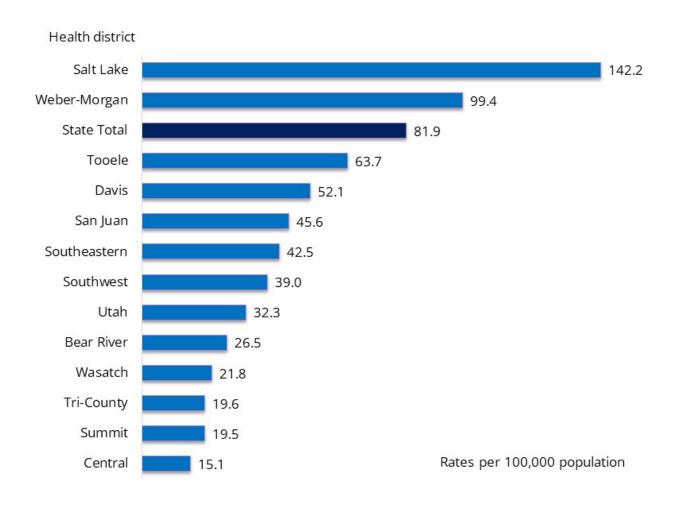
Figure 9. Gonorrhea rates by age group and sex among persons aged >= 10 years, Utah, 2020



Gonorrhea by local health district

In 2020, 2 LHDs in Utah had gonorrhea rates higher than the state rate: Salt Lake County health district (142.2 cases per 100,000 population) and Weber-Morgan health district (99.4 cases per 100,000 population) (Figure 10). Similar to prior years, the majority of cases were identified in four health districts along the Wasatch Front: Salt Lake (63.9%), Utah (10.4%), Weber-Morgan (8.3%), and Davis (7.7%).

Figure 10. Gonorrhea rates by local health district, Utah, 2020



Gonorrhea by race/ethnicity

In 2020, 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 (728.1 cases per 100,000 population), followed distantly by individuals of non-Hispanic Native Hawaiian or Pacific Islander populations, individuals of Hispanic populations, and individuals of non-Hispanic American Indians/Alaska Native populations (264.7, 165.6, and 122.8 cases per 100,000 population, respectively) (Figure 11).

Figure 11. Gonorrhea rates by race/ethnicity, Utah, 2020

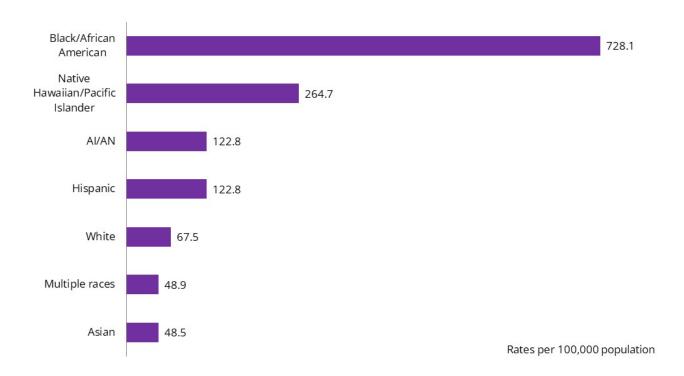
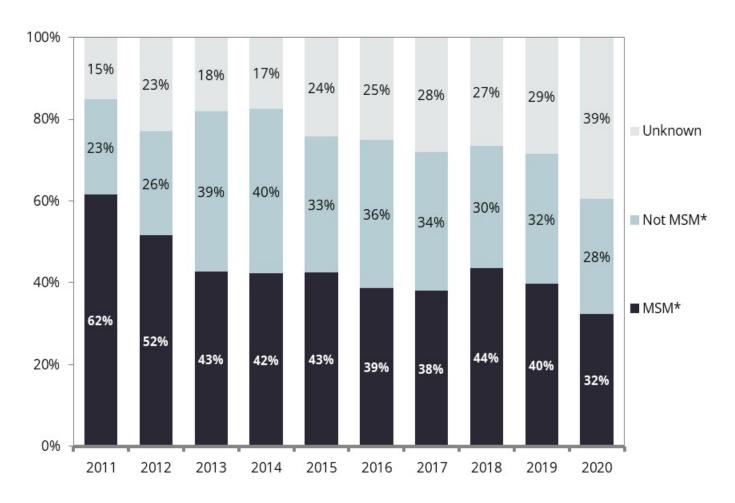


Figure 12. Percentage of male gonorrhea cases by sexual orientation



*MSM = Men who have sex with men

Primary and secondary syphilis

Background

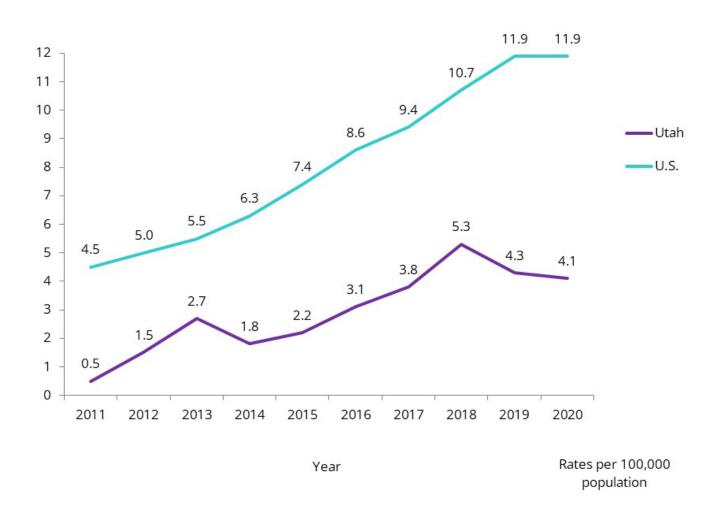
Syphilis is a complex sexually transmitted infection comprised of several stages throughout the duration of the infection. The initial stage, primary syphilis, is characterized by a highly infectious, painless open sore at the site of infection called a chancre. Syphilis is passed from person-to-person through direct contact with the chancre. Sexual transmission can also occur during the secondary stage of syphilis during which 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, the 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 2020, 133 cases of P&S syphilis were reported in Utah compared with 138 cases in 2019. The P&S syphilis rate in Utah in 2020 was 4.1 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 2011, the rate decreased to 0.5 cases per 100, 000 population but has since increased. In 2020, the rate decreased to 4.1 cases per 100,000 population from the 10-year high of 5.3 cases per 100,000 population in 2018. In 2020, Utah's syphilis rate was 32% of the national rate.

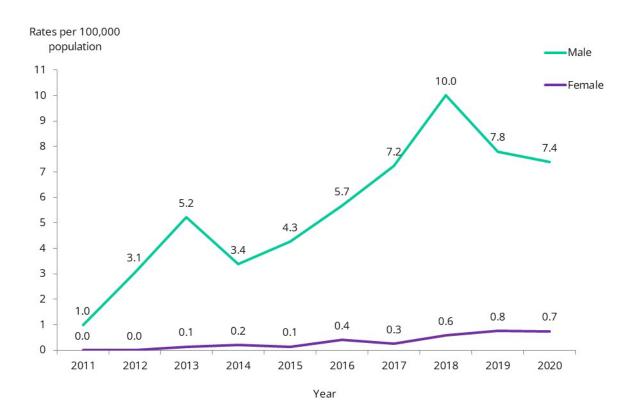
Figure 13. Primary and secondary syphilis rates, Utah and U.S., 2011–2020



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 in 2 of the past 10 years.

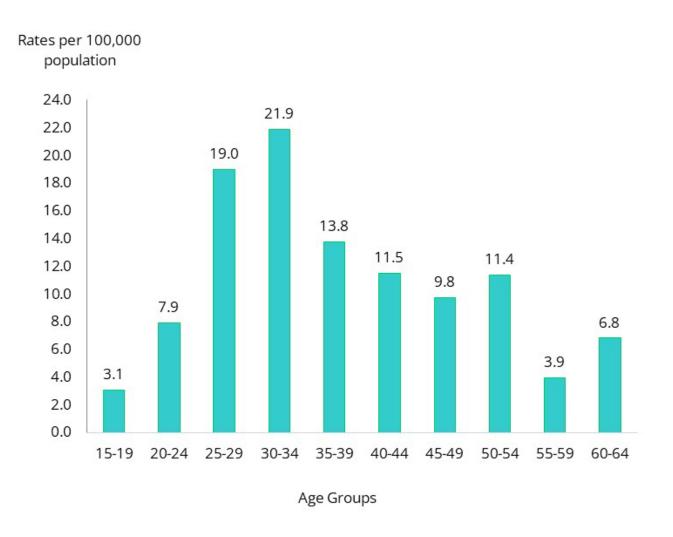
Figure 14. Syphilis rates by sex, Utah, 2011–2020



Syphilis by age group

The highest P&S syphilis rates in Utah in 2020 were among men aged 30–34 (21.9 cases per 100,000 population) and men aged 25–29 (19.0 cases per 100,000 population) (Figure 15). P&S syphilis cases were reported in all age groups 15–64. 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, 2020



Local syphilis by health district

In 2020, 8 health districts in Utah reported P&S syphilis cases: Salt Lake County health district, Utah County health district, Davis County health district, Southwest Utah health district, Southeast Utah health district, Weber-Morgan health district, Bear River health district, and Summit County health district (Figure 16). Salt Lake County health district accounted for 67% of the P&S cases in Utah in 2020, with a rate of 7.6 cases per 100,000 population.

Health district

Salt Lake
State Total

Davis

4.2

Weber-Morgan

Southwest

Utah

Utah

0.8

Wasatch

0.0

Southeast

0.0

Figure 16. Primary and secondary rates by local health district, Utah, 2020

Rates per 100,000 population

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

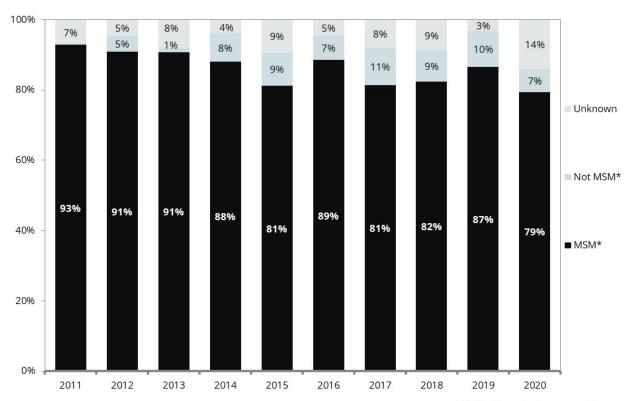
Syphilis by race/ethnicity

Of the 133 cases of P&S syphilis reported in Utah in 2020, the highest rates were among the following racial and ethnic groups: individuals of Hispanic populations (7.4 cases per 100,000) and non-Hispanic White populations (3.33 cases per 100,000 population).

Syphilis by sexual orientation

Since 2011 the majority of male syphilis cases have been among MSM. In 2020, 79% of the P&S cases in men have been among MSM (Figure 18).

Figure 17. Primary and secondary rates by sexual orientation, Utah, 2011–2020



*MSM = Men who have sex with men

Chlamydia and gonorrhea in adolescents and young adults

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 2020, people aged 15 to 24 represented 16% of Utah's population; yet this population accounted for 59% of chlamydia cases and 36% 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 trachomatis infection rates steadily increased in people aged 15-19 and 20-24 from 2011 to 2020 (Figure 18). During this 10-year period, the chlamydia rate increased 32% in males aged 15-19, 44% in males aged 20-24, 16% in females aged 15-19, and 40% 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 2020, 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 19). The rates increased with age and peaked in females at age 19 (2816.3 cases per 100,000 population) and in males at age 20 (1,009.5 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. Females had rates about 4 times higher than males in 15–16- year-olds, 3 times higher in 19- year-olds, and about 2 times higher in 20- to 24-year-olds.

Figure 18. Chlamydia rates by age group and sex in adolescents and young adults, Utah, 2011–2020

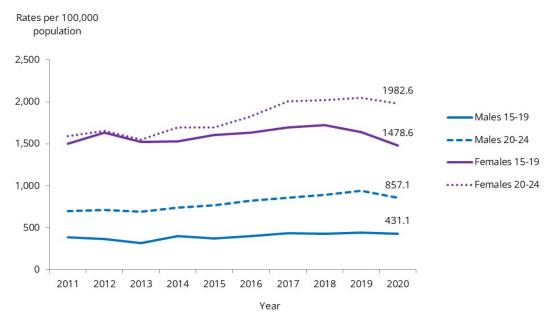
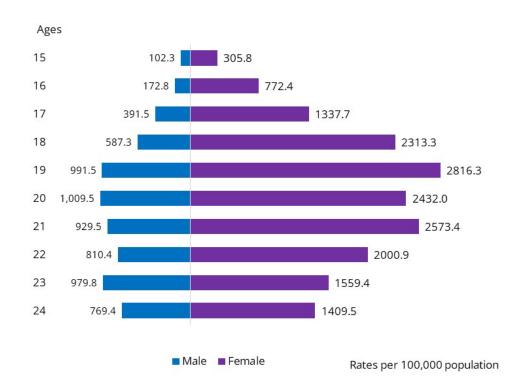


Figure 19. Chlamydia rates by age and sex in adolescents and young adults, Utah, 2020



Gonorrhea

Gonorrhea 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.

Moving in line with the general upward trend rates in adolescents and young adults, from 2019 to 2020, rates in males 15–19 years of age increased by 38% and males aged 20–24 years old increased by 20%. In this same timeframe, the rates in females increased by 29% in females aged 15–19 and 12% in females aged 20–24.

Rates among males and females 15–19 years old have steadily increased in the past 10 years (Figure 20). The rates between the sexes in this age group were similar between 2011 and 2012; males had a rate twice that of females in 2012; and females had higher rates from 2013 to 2020. Between 2011–2020, females had a 987% rate increase compared to the 472% rate increase seen in males.

Among males and females aged 20–24, males have consistently had higher rates of gonorrhea. In 2011, male rates in this age group were 3 times that of female rates; however, in 2013, the gonorrhea 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 2020, there was a 9% difference in rates among males and females compared to the 67% difference in rates in 2011.

In 2020, the distribution of disease in adolescents and young adults varied by age (Figure 21). Adolescent males and females aged 15–17 had the lowest gonorrhea rates. Rates in males were higher than in females of the same age in people 20 years or older. The highest rate in males was among young men 23 years old (360.2 cases per 100,000 population) and the highest rate in females was among young women 20 years old (350.1 cases per 100,000 population).

Figure 20. Gonorrhea in adolescents and young adults, Utah, 2011–2020

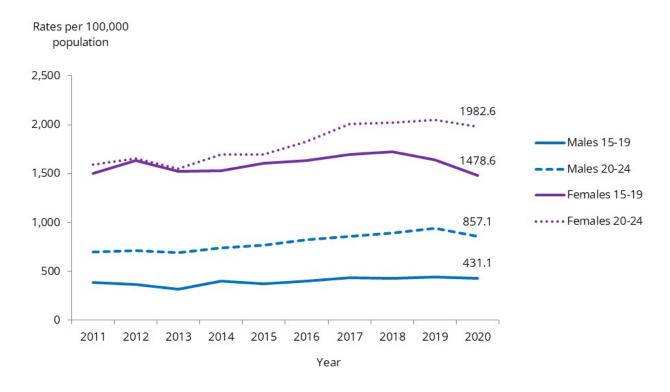
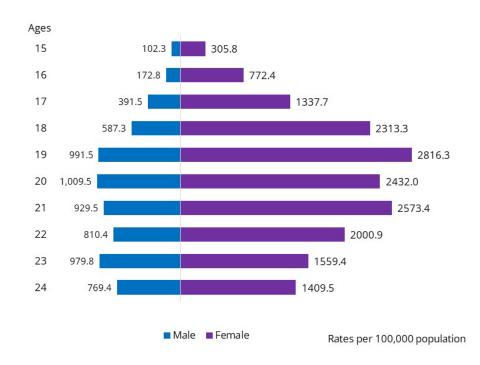


Figure 21. Gonorrhea rates by age and sex in adolescents and young adults, Utah, 2020



Tables

Table 1. Cases of sexually transmitted diseases and rates per 100,000 population, Utah and United States (U.S.), 2011–2020

	Ch	nlamydia	a	Go	onorrhe	a		mary ar dary sy _l	
	Uta	h	U.S.	Uta	ah	U.S.	Uta	ah	U.S.
Year	Cases	Rate	Rate	Cases	Rate	Rate	Cases	Rate	Rate
2011	7055	250.6	453.4	277	9.8	103.3	14	.5	4.5
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

Note: Cases were classified by Morbidity and Mortality Weekly Report (MMWR) year. Sources: Utah cases - Department of Health and Human Services, Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system); US Rates - Centers for Disease Control and Prevention; Population estimates - National Center for Health Statistics (NCHS) through a collaborative agreement with the U.S. Bureau of the Census.

Table 2. Chlamydia cases and rates by age group and sex, Utah, 2011–2020

	Age groups					Cases									Rates	per 100,0	00 popula	ation			
Sex	(years)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	<1	<11	<11	<11	0	0	<11	<11	<11	<11	0	-	19.4*	-	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*	4.1*	3.2*	-	6.2*	7.6*	5.2*	5.1*	-	2.9*
	15 to 19	426	410	362	458	439	483	535	542	569	563	383.4	367.7	318.9	397.9	373.1	399.5	432.3	428.0	440.6	431.1
	20 to 24	824	875	866	934	979	1061	1117	1185	1276	1188	699.5	714.7	691.5	741.9	767.0	822.7	855.1	890.4	940.4	857.1
	25 to 29	512	544	616	656	646	761	831	801	953	875	449.0	493.2	567.2	597.0	577.7	646.5	672.5	630.2	737.6	665.3
М	30 to 34	251	322	316	336	357	463	446	532	522	491	220.8	280.1	273.6	293.5	315.8	416.1	405.6	484.3	466.6	430.3
a ı	35 to 39	114	149	161	194	218	291	258	297	363	327	121.5	152.3	157.3	182.2	197.2	254.8	221.6	252.3	309.1	281.4
	40 to 44	69	71	79	112	121	159	131	145	187	184	83.5	83.6	90.6	125.5	132.5	169.0	132.7	139.9	172.9	163.1
е	45 to 49	35	49	45	56	64	92	88	99	97	105	46.0	64.7	59.7	73.3	81.3	111.9	103.6	113.1	107.8	113.9
	50 to 54	14	26	20	44	48	63	46	58	58	71	18.2	33.8	25.9	57.2	63.0	83.7	61.1	77.1	76.0	90.0
	55 to 59	<11	<11	<11	13	33	22	45	42	47	43	-	11.3*	6.9*	17.8	44.4	29.2	59.3	54.9	61.4	56.5
	60 to 64	<11	<11	<11	<11	<11	14	<11	17	21	16	-	-	8.4*	6.4*	14.0*	20.9	13.0*	24.0	29.2	21.8
	65+	<11	0	<11	<11	<11	<11	11	<11	15	<11	-	0.0	-	-	-	4.7*	7.1*	4.9*	8.8	2.2*
	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	2258	2466	2484	2810	2925	3427	3525	3735	4112	3871	159.7	171.9	170.4	190.1	194.8	223.6	225.5	235.1	254.8	236.4
	<1	0	<11	<11	0	<11	0	<11	0	0	0	0.0	-	-	0.0	-	0.0	-	0.0	0.0	0.0
	1 to 9	<11	<11	<11	0	0	0	0	<11	0	<11	-	-	-	0.0	0.0	0.0	0.0	-	0.0	-
	10 to 14	47	55	37	49	47	53	48	46	43	41	41.1	47.2	31.0	40.3	38.1	42.3	37.6	35.4	33.0	31.4
	15 to 19	1610	1743	1651	1684	1815	1900	2018	2099	2051	1871	1504.1	1630.3	1520.0	1528.4	1605.4	1634.1	1693.1	1720.0	1642.0	1478.6
	20 to 24	1860	1991	1890	2088	2079	2246	2499	2553	2641	2603	1589.6	1656.5	1547.4	1697.9	1692.5	1828.7	2009.2	2019.2	2048.8	1982.6
F	25 to 29	739	705	773	792	871	912	1053	1100	1158	1051	679.2	663.0	735.0	749.6	8.808	809.4	899.1	916.7	948.5	852.8
e	30 to 34	294	374	382	457	477	473	483	511	474	501	269.2	338.0	343.5	412.7	436.4	434.1	447.2	474.6	436.1	452.6
m	35 to 39	145	156	161	187	224	250	285	271	324	272	160.4	165.6	163.4	182.6	210.2	226.9	253.0	237.9	284.6	241.3
а	40 to 44	62	66	78	93	89	122	124	136	141	181	78.2	80.8	92.8	108.3	101.3	134.7	130.7	136.3	135.2	166.3
l I	45 to 49	29	22	24	36	42	46	63	58	75	53	38.4	29.6	32.7	48.6	55.2	58.0	76.6	68.4	86.4	59.5
e	50 to 54	<11	16	13	14	27	20	16	29	29	28	9.0*	20.5	16.6	17.9	35.1	26.4	21.4	39.2	38.7	36.3
	55 to 59	<11	<11	<11	<11	<11	<11	14	11	17	11	-	8.3*	8.1*	8.0*	14.4*	7.7*	17.8	13.9*	21.6	14.1*
	60 to 64	0	<11	0	<11	<11	<11	<11	<11	<11	<11	0.0	-	0.0	-	-	-	8.3*	6.8*	6.6*	7.8*
	65+	0	<11	0	0	<11	<11	0	<11	<11	<11	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	4797	5141	5017	5408	5686	6033	6610	6823	6960	6620	342.5	362.2	348.1	370.3	383.6	399.0	429.1	435.7	437.8	410.6
	<1	<11	<11	<11	0	<11	<11	<11	<11	<11	0	-	11.9*	-	0.0	-	-	-	-	-	0.0
	1 to 9	<11	<11	<11	0	0	0	0	<11	0	<11	-	-	-	0.0	0.0	0.0	0.0	-	0.0	-
	10 to 14	52	60	41	51	55	63	55	53	46	45	22.1	25.1	16.8	20.5	21.8	24.5	20.9	19.8	17.1	16.7
	15 to 19	2036	2153	2013	2142	2254	2383	2553	2641	2620	2434	933.3	985.8	906.2	950.8	977.0	1004.8	1050.8	1062.0	1031.3	946.6
	20 to 24	2684	2866	2756	3022	3058	3307	3616	3738	3917	3791	1143.0	1181.3	1114.1	1214.3	1220.9	1313.4	1418.0	1440.4	1480.4	1404.6
т	25 to 29	1251	1249	1389	1448	1517	1673	1884	1901	2111	1926	561.4	576.6	649.7	671.8	691.1	726.2	782.8	769.3	840.1	756.0
	30 to 34	545	696	698	793	834	936	929	1043	996	992	244.5	308.5	307.9	352.1	375.1	425.0	426.2	479.5	451.6	441.3
0	35 to 39	259	305	322	381	442	541	543	568	687	599	140.6	158.8	160.3	182.4	203.6	241.1	237.0	245.2	297.0	261.6
t	40 to 44	131	137	157	205	210	281	255	281	328	365	80.9	82.2	91.7	117.1	117.2	152.2	131.7	138.1	154.4	164.7
a ı	45 to 49	64	71	69	92	106	138	151	157	172	158	42.2	47.3	46.4	61.2	68.4	85.4	90.3	91.1	97.3	87.2
	50 to 54	21	42	33	58	75	83	62	87	87	99	13.6	27.1	21.2	37.4	49.0	55.0	41.4	58.3	57.5	63.4
	55 to 59	<11	14	11	19	44	28	59	53	64	54	2.9*	9.8	7.5*	12.8	29.1	18.3	38.2	34.1	41.2	35.1
	60 to 64	<11	<11	<11	<11	<11	17	15	22	26	22	-	3.4*	4.1*	4.7*	7.6*	12.4	10.6	15.2	17.6	14.6
	65+	<11	<11	<11	<11	<11	<11	11	<11	17	<11	-	-	-	-	1.3*	2.8*	3.3*	2.9*	4.7	1.3
	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	7055	7607	7501	8218	8611	9460	10135	10558	11072	10491	250.6	266.5	258.8	279.7	288.6	310.8	326.6	334.6	345.6	322.8

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

Sources: Utah cases - Department of Health and Human Services, Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system); Population estimates - National Center for Health Statistics (NCHS) through a collaborative agreement with the U.S. Bureau of the Census.

^{*} 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 3. Chlamydia cases and rates by local health district, Utah, 2011–2020

Local health					Cases									Rates p	er 100,0	00 popu	lation			
district	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Bear River	275	295	251	267	348	354	353	394	391	381	164.3	175.2	147.6	155.6	200.1	199.3	195.5	214.3	209.4	201.1
Central	73	81	91	110	91	89	106	123	135	118	96.1	107.2	119.9	144.4	118.3	113.8	133.4	152.4	164.8	142.4
Davis	745	866	891	954	891	968	1143	1145	1154	954	238.9	274.0	276.4	290.1	266.1	283.7	329.5	326.1	324.8	265.6
Salt Lake	3629	3932	3792	4279	4579	5107	5328	5289	5709	5454	346.4	369.5	351.2	392.4	415.3	455.7	468.5	460.3	492.8	467.9
San Juan	N/A	N/A	N/A	N/A	55	54	59	43	55	15	N/A	N/A	N/A	N/A	360.6	351.9	386.0	280.4	361.2	98.2
Southeastern	121	147	168	126	69	69	70	100	91	69	214.4	259.9	299.8	225.7	171.3	171.7	175.9	250.0	225.8	169.5
Southwest	344	356	380	432	410	460	556	653	701	651	166.2	169.8	179.0	199.2	185.2	201.7	235.5	267.3	277.3	249.0
Summit	54	63	74	91	89	120	118	116	132	129	144.2	166.3	192.5	232.5	224.3	295.8	285.2	277.0	313.7	303.5
Tooele	134	118	141	143	164	159	194	187	188	176	226.4	197.3	232.5	232.6	261.7	246.0	287.4	267.3	260.7	236.2
TriCounty	87	90	112	137	118	124	111	147	97	107	163.8	164.4	197.2	235.2	197.8	215.4	197.9	261.1	171.2	188.1
Utah	789	791	774	940	974	1021	1180	1270	1362	1411	148.6	146.5	140.3	167.5	169.9	172.7	194.2	204.2	214.3	216.7
Wasatch	34	42	38	35	29	46	42	46	57	52	139.3	165.7	143.0	125.8	99.6	151.2	131.1	138.2	166.6	147.3
Weber-Morgan	769	823	789	702	794	885	875	1043	1000	970	315.8	334.4	317.8	279.9	312.6	342.3	332.3	390.0	367.9	352.6
Unknown	<11	<11	0	<11	0	<11	0	<11	0	<11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
State Total	7,054	7,604	7,501	8,216	8,611	9,456	10,135	10,556	11,072	10,487	250.6	266.5	258.8	279.7	288.6	310.8	326.6	334.6	345.6	322.8

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 Southeastern Utah LHD Sources: Utah cases - Department of Health and Human Services, Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system); Population estimates - National Center for Health Statistics (NCHS) through a collaborative agreement with the U.S. Bureau of the Census.

^{*} 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 4. Chlamydia cases and rates by race/ethnicity, Utah, 2011–2020

					Cases									Rates p	er 100,00	0 populat	ion			
Race/ethnicity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
AI/AN	171	200	204	186	157	174	167	176	169	154	625.3	728.3	738.7	665.6	556.6	610.2	578.8	604.7	571.1	511.2
Asian	88	117	119	140	141	185	211	222	192	185	152.6	192.4	188.7	213.4	207.4	258.3	279.8	284.6	239.3	224.4
Black/African American	284	301	325	357	336	438	477	526	561	511	1048.2	1071.7	1122.3	1204.3	1101.3	1359.4	1399.2	1486.0	1523.6	1343.1
Hispanic [†]	1786	1965	1978	1944	2150	2417	2583	2657	2994	2898	484.7	523.0	513.8	494.1	531.4	577.5	595.5	594.1	652.1	614.4
White	4540	4845	4678	5123	4948	5534	5884	6098	6067	5502	200.8	212.0	202.1	219.0	209.1	230.2	241.3	247.1	243.0	218.1
Native Hawaiian/Pacific Islander	141	146	141	190	197	232	295	287	292	339	569.7	572.8	534.9	702.3	702.9	796.4	977.5	912.2	898.6	1008.4
Multiple races	14	25	28	35	35	42	64	52	78	46	28.6	49.0	52.7	63.4	60.9	69.7	101.1	78.9	113.5	64.2
Other/unknown	30	<11	28	243	647	438	454	540	719	856	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
State total	7,054	7,607	7,501	8,218	8,611	9,460	10,135	10,558	11,072	10,491	250.6	266.5	258.8	279.7	288.6	310.8	326.6	334.6	345.6	322.8

† Includes persons of Hispanic ethnicity regardless of race. Note: Cases were classified by *Morbidity and Mortality Weekly Report (MMWR*) year.

Sources: Utah cases - Department of Health and Human Services, Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system); Population estimates - U.S. Bureau of the Census.

Table 5. Gonorrhea cases and rates by age group and sex, Utah, 2011–2020

	Age groups					Cases								Ra	ites per 1	00,000 po	pulation				
Sex	(years)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	<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	<11	0	<11	0	<11	<11	0	0	0	0	-	0.0	-	0.0	-	-	0.0	0.0	0.0	0.0
	15 to 19	22	39	38	62	66	90	120	131	124	148	19.8	35.0	33.5	53.9	56.1	74.4	97.0	103.4	96.0	113.3
	20 to 24	61	76	131	229	228	286	357	462	388	410	51.8	62.1	104.6	181.9	178.6	221.8	273.3	347.2	285.9	295.8
м	25 to 29	54	65	133	200	266	311	390	423	456	428	47.4	58.9	122.5	182.0	237.9	264.2	315.6	332.8	352.9	325.4
a	30 to 34	33	60	100	150	163	257	272	343	333	335	29.0	52.2	86.6	131.0	144.2	231.0	247.4	312.3	297.6	293.6
	35 to 39	19	34	60	97	122	170	219	232	224	238	20.2	34.8	58.6	91.1	110.3	148.9	188.1	197.1	190.7	204.8
•	40 to 44	<11	27	41	49	70	111	105	139	137	153	12.1*	31.8	47.0	54.9	76.7	118.0	106.3	134.1	126.6	135.6
е	45 to 49	<11	26	29	40	45	80	95	83	77	84	11.8*	34.3	38.4	52.4	57.2	97.3	111.9	94.8	85.6	91.1
	50 to 54	<11	12	33	28	51	38	53	68	59	58	-	15.6	42.8	36.4	67.0	50.5	70.5	90.4	77.3	73.5
	55 to 59	<11	<11	<11	13	35	25	35	46	35	40	_	14.1*	12.4*	17.8	47.0	33.2	46.1	60.2	45.7	52.5
	60 to 64	0	0	<11	<11	<11	11	18	17	23	26	0.0	0.0	-	11.3*	6.2*	16.4*	26.0	24.0	32.0	35.5
	65+	0	0	0	0	<11	<11	<11	12	13	<11	0.0	0.0	0.0	0.0	3.5*	-	4.5*	7.4	7.6	5.0*
	Unknown	0	0	0	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
	Male total	211	349	578	875	1,056	1,384	1,671	1,956	1,870	1,929	14.9	24.3	39.7	59.2	70.3	90.3	106.9	123.1	115.8	117.8
	<1	0	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	0	<11	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*	4.9*	4.0*	7.0*	8.5*	3.1*	3.8*
	15 to 19	16	17	50	89	72	125	156	188	149	205	14.9	15.9	46.0	80.8	63.7	107.5	130.9	154.1	119.3	162.0
_	20 to 24	20	44	115	165	143	177	210	226	291	350	17.1	36.6	94.2	134.2	116.4	144.1	168.8	178.7	225.7	266.6
F	25 to 29	15	23	82	119	108	160	191	198	209	236	13.8	21.6	78.0	112.6	100.3	142.0	163.1	165.0	171.2	191.5
е	30 to 34	<11	24	57	102	81	130	129	121	159	146	5.5*	21.7	51.3	92.1	74.1	119.3	119.4	112.4	146.3	131.9
m	35 to 39	<11	11	35	52	55	60	85	103	87	102	6.6*	11.7*	35.5	50.8	51.6	54.4	75.5	90.4	76.4	90.5
а	40 to 44	<11	<11	12	18	20	34	37	52	43	73	-	4.9*	14.3	21.0	22.8	37.5	39.0	52.1	41.2	67.1
ï	45 to 49	<11	<11	<11	<11	13	16	27	20	38	42	-	5.4*	5.4*	12.2*	17.1	20.2	32.8	23.6	43.8	47.2
	50 to 54	0	<11	11	<11	<11	<11	16	<11	21	21	0.0	5.1*	14.0*	5.1*	6.5*	9.3*	21.4	13.5*	28.0	27.2
е	55 to 59	0	0	<11	<11	<11	<11	<11	<11	<11	<11	0.0	0.0	-	-	-	-	7.6*	7.6*	6.3*	11.6*
	60 to 64	0	0	<11	0	0	<11	<11	<11	<11	<11	0.0	0.0	-	0.0	0.0	-	5.5*	-	-	_
	65+	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	-	0.0
	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	66	134	373	565	504	716	870	939	1,008	1,191	4.7	9.4	25.9	38.7	34.0	47.4	56.5	60.0	63.4	73.9
	<1	0	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	0	<11	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	-	-	-	2.0*	2.8*	3.1*	3.4*	4.1*	1.5*	1.9*
	15 to 19	38	56	88	151	138	215	276	319	273	353	17.4	25.6	39.6	67.0	59.8	90.7	113.6	128.3	107.5	137.3
	20 to 24	81	120	246	394	371	463	567	688	679	760	34.5	49.5	99.4	158.3	148.1	183.9	222.3	265.1	256.6	281.6
т	25 to 29	69	88	215	319	374	471	581	621	665	664	31.0	40.6	100.6	148.0	170.4	204.5	241.4	251.3	264.6	260.6
	30 to 34	39	84	157	252	244	387	401	464	492	481	17.5	37.2	69.3	111.9	109.7	175.7	184.0	213.3	223.1	214.0
_	35 to 39	25	45	95	149	177	230	304	335	311	340	13.6	23.4	47.3	71.3	81.5	102.5	132.7	144.6	134.5	148.5
t	40 to 44	11	31	53	67	90	145	142	191	180	226	6.8*	18.6	31.0	38.3	50.2	78.5	73.4	93.9	84.7	102.0
а	45 to 49	<11	30	33	49	58	96	122	103	115	126	6.6*	20.0	22.2	32.6	37.5	59.4	73.0	59.8	65.0	69.5
1	50 to 54	<11	16	44	32	56	45	69	78	80	79	-	10.3	28.3	20.7	36.6	29.8	46.0	52.3	52.9	50.6
	55 to 59	<11	<11	12	14	36	26	41	52	40	49	_	7.0*	8.2	9.4	23.8	17.0	26.5	33.5	25.7	31.8
	60 to 64	0	0	<11	<11	<11	12	22	19	24	28	0.0	0.0	4.1*	5.5*	3.0*	8.8	15.6	13.1	16.3	18.6
	65+	0	0	0	0	<11	<11	<11	12	14	<11	0.0	0.0	0.0	0.0	1.6*	-	2.1*	3.4	3.8	2.4*
	Unknown	0	0	0	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
	Total cases	277	483	951	1,440	1,560	2,100	2,541	2,895	2,878	3,120	9.8	16.9	32.8	49.0	52.3	69.0	81.9	91.8	89.8	96.0

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

Sources: Utah cases - Department of Health and Human Services, Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system); Population estimates - National Center for Health Statistics (NCHS) through a collaborative agreement with the U.S. Bureau of the Census.

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

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

Table 6. Gonorrhea cases and rates by local health district, Utah, 2011–2020

					Cas	es								Rates	per 100,0	00 popula	tion			
Local health district	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Bear River	<11	<11	<11	35	17	27	49	53	39	57	_	4.8*	4.1*	20.4	9.8	15.2	27.1	28.8	20.9	30.1
Central	<11	<11	<11	<11	<11	<11	<11	24	11	13	_	_	-	9.2*	10.4*	12.8*	11.3*	29.7	13.4*	15.7
Davis	18	41	64	105	93	138	184	217	228	244	5.8	13.0	19.9	31.9	27.8	40.4	53.0	61.8	64.2	67.9
Salt Lake	198	341	685	1001	1048	1436	1653	1909	1894	1990	18.9	32.0	63.4	91.8	95.0	128.1	145.3	166.2	163.5	170.7
San Juan	0	0	0	0	<11	<11	<11	<11	16	<11	N/A	N/A	N/A	N/A	-	39.1*	32.7*	45.6*	105.1	32.7*
Southeastern	<11	<11	<11	<11	<11	<11	19	21	15	12	10.6*	8.8*	8.9*	12.5*	14.9*	14.9*	47.8	52.5	37.2	29.5
Southwest	<11	14	16	23	55	56	88	65	84	94	4.8*	6.7	7.5	10.6	24.8	24.6	37.3	26.6	33.2	36.0
Summit	<11	<11	<11	<11	<11	11	<11	22	24	25	_	_	13.0*	23.0*	25.2*	27.1*	16.9*	52.5	57.0	58.8
Tooele	<11	<11	<11	22	28	29	42	26	47	53	-	-	11.5*	35.8	44.7	44.9	62.2	37.2	65.2	71.1
TriCounty	<11	<11	<11	<11	12	<11	14	28	25	20	_	_	10.6*	12.0*	20.1	10.4*	25.0	49.7	44.1	35.2
Utah	19	17	67	97	129	159	201	229	244	328	3.6	3.1	12.1	17.3	22.5	26.9	33.1	36.8	38.4	50.4
Wasatch	0	0	<11	<11	<11	<11	<11	<11	<11	17	0.0	0.0	_	-	_	29.6*	25.0*	-	20.5*	48.2
Weber-Morgan	17	44	85	124	147	206	262	290	243	260	7.0	17.9	34.2	49.4	57.9	79.7	99.5	108.4	89.4	94.5
Unknown	0	0	0	<11	0	<11	0	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	277	483	951	1,440	1,560	2,100	2,541	2,895	2,878	3,120	9.8	16.9	32.8	49.0	52.3	69.0	81.9	91.8	89.8	96.0

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 Southeastern Utah LHD

Sources: Utah cases - Department of Health and Human Services, Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system); Population estimates - National Center for Health Statistics (NCHS) through a collaborative agreement with the U.S. Bureau of the Census.

Table 7. Gonorrhea cases and rates by race/ethnicity, Utah, 2011–2020

					Case	es								F	ates per 1	00,000 pc	pulation			
Race/ethnicity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
AI/AN	<11	14	20	18	25	27	35	46	66	37	18.3*	51.0	72.4	64.4	88.6	94.7	121.3	158.0	223.0	122.8
Asian	<11	<11	13	21	22	31	43	46	45	40	_	_	20.6	32.0	32.4	43.3	57.0	59.0	56.1	48.5
Black/African American	21	59	74	104	143	183	193	246	200	277	77.5	210.1	255.5	350.8	468.7	568.0	566.1	695.0	543.2	728.1
Hispanic [†]	41	85	173	322	310	479	579	591	719	781	11.1	22.6	44.9	81.8	76.6	114.4	133.5	132.1	156.6	165.6
White	204	315	660	931	909	1227	1500	1785	1666	1702	9.0	13.8	28.5	39.8	38.4	51.0	61.5	72.3	66.7	67.5
Native Hawaiian/Pacific Islander	<11	<11	<11	18	23	38	54	50	50	89	_	19.6*	26.6*	66.5	82.1	130.4	178.9	158.9	153.9	264.7
Multiple races	<11	<11	<11	<11	<11	<11	15	19	18	35	_	_	-	12.7*	8.7*	10.0*	23.7	28.8	26.2	48.9
Other/unknown	0	<11	0	19	123	109	122	112	114	159	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
State total	277	483	951	1,440	1,560	2,100	2,541	2,895	2,878	3,120	11.2	9.8	16.9	32.8	49.0	52.3	69.0	81.9	91.8	90.0

[†] Includes persons of Hispanic ethnicity regardless of race.

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

Sources: Utah cases - Department of Health and Human Services, Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system) Population estimates - U.S. Bureau of the Census.

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

^{*} 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.

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

Table 8. Gonorrhea cases and percent among males by sexual orientation, Utah, 2011–2020

	MS	SM*	Not N	∕ISM*	Unkr	nown	Total
Year	Cases	Percent	Cases	Percent	Cases	Percent	Cases
2011	130	61.6%	49	23.2%	32	15.2%	211
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

^{*}MSM=Men Who Have Sex with Men

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

Source: Utah cases - Department of Health and Human Services, Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system).

Table 9. Primary and secondary syphilis cases and rates by age group and sex, Utah, 2011–2020

	Age group					Cases									Rates	per 100.0	00 popula	tion			
Sex	(years)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	<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	0	<11	<11	<11	<11	<11	<11	<11	0.0	0.0	0.0	_	-	5.0*	3.2*	6.3*	_	3.1*
	20 to 24	<11	<11	<11	<11	<11	15	24	20	20	11	_	4.9*	8.0*	5.6*	5.5*	11.6	18.4	15.0	14.7	7.9*
	25 to 29	<11	<11	<11	<11	15	12	22	36	23	25	_	9.1*	12.9	8.2*	13.4	10.2	17.8	28.3	17.8	19.0
М	30 to 34	<11	<11	<11	11	<11	<11	14	31	15	25	_	8.7*	8.7*	9.6*	7.1*	9.0*	12.7	28.2	13.4	21.9
a	35 to 39	<11	<11	12	<11	<11	13	18	21	20	16	_	5.1*	11.7	5.6*	8.1*	11.4	15.5	17.8	17.0	13.8
1	40 to 44	0	<11	<11	<11	<11	<11	<11	17	11	13	0.0	4.7*	8.0*	4.5*	7.7*	9.6*	9.1*	16.4	10.2*	11.5
e	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*
	50 to 54	<11	<11	<11	<11	<11	12	<11	<11	12	<11	_	_	10.4*	9.1*	6.36*	15.9	6.6*	12.0*	15.7	11.4*
	55 to 59	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	_	_	9.7*	-	5.4*	5.3*	11.9*	_	9.1*	_
	60 to 64	<11	0	<11	<11	<11	0	<11	0	<11	<11	_	0.0	_	_	-	0.0	-	0.0	6.9*	6.8*
	65+	0	0	<11	0	<11	<11	<11	<11	0	<11	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
	Male total	14	44	76	50	64	87	113	159	126	121	1.0	3.1	5.2	3.4	4.3	5.7	7.2	10.0	7.8	7.4
	<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	0	<11	<11	0	0	<11	<11	0.0	0.0	_	0.0	-	_	0.0	0.0	_	_
	20 to 24	0	0	0	<11	0	<11	<11	<11	<11	0	0.0	0.0	0.0	-	0.0	-	-	-	-	0.0
F	25 to 29	0	0	0	0	0	0	<11	<11	<11	<11	0.0	0.0	0.0	0.0	0.0	0.0	_	_	_	4.1*
е	30 to 34	0	0	0	0	1	0	0	<11	<11	<11	0.0	0.0	0.0	0.0	-	0.0	0.0	3.7*	-	_
m	35 to 39	0	0	<11	<11	0	<11	0	0	0	0	0.0	0.0	_	_	0.0	_	0.0	0.0	0.0	0.0
а	40 to 44	0	0	0	0	0	0	0	<11	<11	<11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	_
I	45 to 49	0	0	0	<11	0	<11	0	0	<11	<11	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	_
е	50 to 54	0	0	0	0	0	<11	0	<11	<11	0	0.0	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	_	0.0
	60 to 64	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
	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	0	<11	<11	<11	<11	<11	<11	12	12	0.0	0.0	0.1	0.2	0.1	0.4	0.3	0.6	0.8	0.7
	<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	_	-	1.7*	3.0*	1.6*	3.2*	1.6*	1.9*
	20 to 24	<11	<11	<11	<11	<11	17	27	21	22	11	_	2.5*	4.0*	3.2*	2.8*	6.8	10.6	8.1	8.3	4.1*
_	25 to 29	<11	<11	14	<11	15	12	23	37	24	30	_	4.6*	6.5	4.2*	6.8	5.2	9.6	15.0	9.6	11.8
T	30 to 34	<11	<11	<11	<11	<11	10	14	35	18	27	_	4.4*	4.4*	44.9*	4.0*	4.5*	6.4	16.1	8.2	12.0
0	35 to 39	<11	<11	13	<11	<11	14	18	21	20	16	_	2.6*	6.5	3.4*	4.1*	6.2	7.9	9.1	8.6	7.0
t a	40 to 44	0	<11	<11	<11	<11	<11	<11	19	13	15	0.0	2.4*	4.1*	2.3*	3.9*	4.9*	4.6*	9.3	6.1	6.8
ı	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*
•	50 to 54	<11	<11	<11	<11	<11	13	<11	<11	13	<11	_	_	5.1*	4.5*	3.3*	8.6	3.3*	6.7*	8.6	5.8*
	55 to 59	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	_	_	4.8*	_	2.6*	2.6*	5.8*	_	5.1*	_
	60 to 64	<11	0	<11	<11	<11	0	<11	0	<11	<11	_	0.0	-	-	-	0.0	-	0.0	3.4*	3.3*
	65+	0	0	<11	0	<11	<11	<11	<11	0	<11	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
	Total cases	14	44	78	53	66	93	117	168	138	133	0.5	1.5	2.7	1.8	2.2	3.1	3.8	5.3	4.3	4.1

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

Sources: Utah cases - Department of Health and Human Services, Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system); Population estimates - National Center for Health Statistics (NCHS) through a collaborative agreement with the U.S. Bureau of the Census.

^{*} 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, 2011-2020

Local health					Cases								Ra	tes per 1	00,000 po	pulation				
district	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Bear River	0	<11	0	0	<11	<11	<11	<11	0	<11	0.0	-	0.0	0.0	-	-	_	-	0.0	_
Central	0	0	<11	0	0	0	0	<11	<11	<11	0.0	0.0	_	0.0	0.0	0.0	0.0	_	_	_
Davis	<11	<11	<11	<11	<11	<11	<11	17	15	<11	_	-	1.9*	-	1.8*	1.5*	1.2*	4.8	4.2	1.9*
Salt Lake	<11	36	66	40	49	70	87	121	97	89	0.9*	_	6.1	3.7	4.4	6.2	7.6	10.5	8.4	7.6
San Juan	0	0	0	0	0	0	0	0	0	<11	N/A	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	_
Southeastern	0	0	0	0	0	0	<11	0	<11	0	0.0	0.0	0.0	0.0	0.0	0.0	_	0.0	-	0.0
Southwest	<11	<11	0	0	<11	<11	<11	<11	<11	<11	_	-	0.0	0.0	-	2.2*	3.4*	-	2.4*	3.4*
Summit	0	0	0	0	0	<11	0	0	<11	<11	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	_
Tooele	0	0	<11	<11	0	0	<11	0	0	<11	0.0	0.0	-	-	0.0	0.0	-	0.0	0.0	_
TriCounty	0	0	<11	0	0	0	<11	0	0	<11	0.0	0.0	_	0.0	0.0	0.0	_	0.0	0.0	_
Utah	0	<11	0	<11	<11	<11	<11	<11	<11	11	0.0	-	0.0	-	1.0*	1.0*	1.3*	1.1*	0.8*	1.7*
Wasatch	0	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
Weber-Morgan	<11	<11	<11	<11	<11	<11	<11	15	<11	<11	_	-	-	2.0*	-	-	1.9*	5.6	3.3*	1.5*
Unknown	0	0	<11	<11	0	0	0	0	0	<11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
State total	14	44	79	53	66	93	117	168	138	133	0.5	1.5	2.7	1.8	2.2	3.1	3.8	5.3	4.3	4.1

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 Southeastern Utah LHD
Sources Utah cases. Department of Health and Juana Caster for Health Statistics

Sources: Utah cases - Department of Health and Human Services, Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system); Population estimates - National Center for Health Statistics (NCHS) through a collaborative agreement with the U.S. Bureau of the Census.

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, 2011–2020

					Cases								Ra	ites per 1	00,000 pc	pulation				
Race/ethnicity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
AI/AN	<11	<11	<11	0	0	<11	<11	0	<11	<11	_	-	-	0.0	0.0	-	_	0.0	-	16.6*
Asian	0	<11	<11	<11	<11	<11	<11	<11	<11	<11	0.0	_	-	_	-	-	_	_	_	_
Black/African American	0	<11	<11	<11	<11	<11	<11	<11	<11	<11	0.0	-	-	20.2*	-	15.5*	20.5*	19.8*	21.7*	15.8*
Hispanic [†]	<11	<11	<11	<11	20	18	23	43	32	35	_	_	2.3*	2.3*	4.9	4.3	5.3	9.6	7.0	7.4
White	12	36	61	34	43	65	78	107	82	82	0.5	1.6	2.6	1.5	1.8	2.7	3.2	4.3	3.3	3.3
Native Hawaiian/Pacific Islander	0	0	0	<11	0	<11	<11	<11	<11	<11	0.0	0.0	0.0	_	0.0	-	_	19.1*	21.5*	_
Multiple races	0	0	0	<11	0	<11	<11	<11	<11	<11	0.0	0.0	0.0	-	0.0	-	_	_	_	_
Other/unknown	0	0	<11	0	0	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	<11	44	79	53	66	93	117	168	138	133	0.5	1.5	2.7	1.8	2.2	3.1	3.8	5.3	4.3	4.1

[†] Includes persons of Hispanic ethnicity regardless of race.

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

Sources: Utah cases - Department of Health and Human Services, Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system); Population estimates - U.S. Bureau of the Census.

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

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

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Table 12. Primary and secondary syphilis cases and percent among males by sexual orientation, Utah, 2011–2020

	М	SM*	Not	MSM*	Unk	Total	
Year	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

^{*}MSM=Men who have sex with men

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

Source: Utah cases - Department of Health and Human Services, Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system).

Table 13. Chlamydia cases and rates per 100,000 population by age and sex in adolescents and young adults, Utah, 2020

Males			Fema	ales	Tot	Total			
Age	Cases	Rates	Cases	Rates	Cases	Rates			
15	28	102.3	80	305.8	108	201.7			
16	47	172.8	202	772.4	249	466.8			
17	106	391.5	344	1,337.7	450	852.4			
18	150	587.3	557	2,313.3	707	1,424.9			
19	232	991.5	688	2,816.3	920	1,923.5			
20	233	1,009.5	639	2,432.0	872	1,766.8			
21	240	929.5	670	2,573.4	910	1,754.8			
22	237	810.4	521	2,000.9	758	1,371.2			
23	253	979.8	406	1,559.4	659	1,133.8			
24	225	769.4	367	1,409.5	592	1,070.9			

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

Sources: Utah cases - Department of Health and Human Services, Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system); Population estimates - National Center for Health Statistics (NCHS) through a collaborative agreement with the U.S. Bureau of the Census.

Table 14. Gonorrhea cases and rates per 100,000 population by age and sex in adolescents and young adults, Utah, 2020

	Male	·S	Fem	ales	Tot	tal
Age	Cases	Rates	Cases	Rates	Cases	Rates
15	<11	_	11	42.0*	14	26.2
16	13	47.8	29	110.9	42	78.7
17	23	84.9	31	120.6	54	102.3
18	44	172.3	69	286.6	113	227.7
19	65	277.8	65	266.1	130	271.8
20	61	264.3	92	350.1	153	310.0
21	89	344.7	89	341.8	178	343.3
22	77	263.3	64	245.8	141	255.1
23	93	360.2	53	203.6	146	251.2
24	90	307.8	52	199.7	142	256.9

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

Sources: Utah cases - Department of Health and Human Services, Office of Communicable Diseases, UT-NEDSS (reportable disease surveillance system); Population estimates - National Center for Health Statistics (NCHS) through a collaborative agreement with the U.S. Bureau of the Census.

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

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

Appendix

Utah's 13 local health districts



Local health departments	Counties in service area
Bear River Health Department	Box Elder, Cache, Rich
Central Utah Public Health Department	Juab, Millard, Piute, Sanpete, Sevier, Wayr
Davis County Health Department	Davis
Salt Lake Valley Health Department	Salt Lake
San Juan Public Health Department	San Juan
Southeastern Utah District 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