

Sexually Transmitted Diseases (STD) Among Arizona Youth

The Impact of Chlamydia, Gonorrhea, Syphilis, and Genital Herpes on Arizona Adolescents, 2010

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December 30, 2011

Dear Community Stakeholder:

The Arizona Department of Health Services STD Control Program is pleased to provide this updated report on the impact of sexually transmitted diseases (STDs) among Arizona youth. The subsequent information, as depicted in the 2010 graphs and tables herein, highlights the continuing STD epidemic affecting our state's young adult population. These data demonstrate the need for targeted education and prevention resources that will enable all Arizona youth to make healthy decisions regarding sexual activity.

Untreated STDs can cause significant health problems among those who become infected. For instance, untreated chlamydia and gonorrhea can lead to pelvic inflammatory disease (PID). Young women may suffer ectopic pregnancies and chronic pelvic pain. Worse still, sexually transmitted diseases can lead to infertility or can be transmitted to unborn infants during pregnancy and/or delivery. Arizona law permits minors to seek treatment for STDs without parental or guardian consent (*ARS § 44-132.01*). Chlamydia and gonorrhea testing is now widely available as a urine test. However, syphilis, herpes, and HIV testing require a blood specimen.

As demonstrated in this report, chlamydia, gonorrhea, and herpes are more frequently diagnosed in young females than in young males. There are several reasons for this disparity. First, women seek healthcare with more regularity than men. Second, national chlamydia screening guidelines recommend annual testing (that includes a test for gonorrhea) among sexually active women aged 25 years and younger. Similar screening guidelines do not exist for men. Finally, chlamydia, gonorrhea, and herpes infections are frequently asymptomatic in men (as well as in women) and, thus, may go undetected.

New statutory language (*ARS §32-1401 (27) (ss) (v)*) makes legal the practice of Expedited Partner Therapy (EPT) for STDs. Specifically, medical providers can dispense an extra dose(s) of an antimicrobial medication, or write a separate prescription, to their patient to deliver to their partner(s). This practice is currently supported for the treatment of partners of patients with chlamydia and/or gonorrhea. Implementation of this new public health tool has demonstrated promise in providing treatment to asymptomatic partners and preventing re-infection.

We recommend continued vigilance among providers, clinics, schools, and community/government agencies serving young adult populations as it relates to STD testing and comprehensive sex education. We hope this information can be used to further efforts to increase awareness of this important health issue facing Arizona youth. Please do not hesitate to contact us with further questions regarding STD education, prevention, and screening opportunities.

Sincerely,
Roxanne Ereth, MPH
STD Control Program Manager

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Report compiled by:

Arizona Department of Health Services – STD Control Program

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Overview of STD Prevalence and Trends Among 10-19 Year Olds in Arizona

Surveillance of sexually transmitted diseases remains an important public health activity of the Arizona Department of Health Services. Arizona continues to have very high rates of sexually transmitted diseases (STDs). Bacterial (chlamydia, gonorrhea, syphilis) and viral (genital herpes) STDs disproportionately affect youth ages 10-19. In 2010 alone, 29 % of all STDs reported in Arizona were reported in the 10-19 year old age group.

Chlamydia, gonorrhea, and herpes are more frequently diagnosed in young females than in young males. There are several reasons for this disparity. First, women are referred for primary health care services more frequently than men. Second, national chlamydia screening guidelines recommend annual testing among sexually active women aged 25 years and younger. Similar screening guidelines do not exist for men. Finally, chlamydia, gonorrhea, and herpes infections are frequently asymptomatic in men (as well as in women) and, thus, may go undetected.

The following is a summary of each of these reportable STDs. All data presented in this report were derived from the ADHS STD surveillance database. The population denominators used in this report were obtained from the Arizona Department of Health Services Vital Statistics Division (<http://www.azdhs.gov/plan/>).

Chlamydia

Overview

- In 2009, there were 8,453 reported cases of chlamydia among 10-19 year olds, corresponding to 928.7 cases per 100,000 population (Figures 1, 2).
- During 2008-2010, the rate of chlamydia remained stable among 10-19 year olds (Figure 2).

Race/Ethnicity

- In 2010, Black and Native American adolescents continued to have the highest rates of chlamydia morbidity (2,382.3 and 1,830.2 per 100,000 population, respectively) (Figure 3).
- The overall Arizona rate for chlamydia among 10-19 year olds was 928.7 per 100,000 population in 2010 (Figure 3).

County

- Coconino and Navajo Counties had the highest rates of chlamydia (1,135.8 and 1,133.0 per 100,000 respectively) among 10-19 year olds (Figure 4).

- Maricopa and Pima Counties, the two most populous counties, had the greatest numbers of chlamydia cases among 10-19 year olds in 2010: 4,787 and 1,276 respectively (Tables 3-4).

Gender

- From 2001 to 2010, adolescent females had a 4.3 to 5.9-fold higher rate of chlamydia compared to adolescent males (Figure 5).

Gonorrhea

Overview

- In 2010, there were 811 reported cases of gonorrhea among 10-19 year olds, corresponding to 89.1 cases per 100,000 population (Figures 1, 19).
- During 2006-2010, the rate of gonorrhea decreased 39% among 10-19 year olds (Figure 19).

Race/Ethnicity

- In 2010, Black adolescents continued to have the highest rates of gonorrhea morbidity (599.1 per 100,000 population) (Figure 20).
- The highest rate for Blacks, aged 10-19 years old, occurred in 2007 with 761.2 cases per 100,000 (Figure 20).
- The overall Arizona rate for gonorrhea among 10-19 year olds was 89.1 cases per 100,000 population in 2010 (Figure 20,22).
- During 2007-2010 the rate of diagnosed gonorrhea among Black adolescents decreased by 21% (Figure 20).
- Native Americans and Blacks were the only adolescent race ethnicity groups that experienced an increase in gonorrhea rates from 2009-2010.

County

- Maricopa County had the highest rate of gonorrhea (95.8 per 100,000) among 10-19 year olds (Figure 21).
- Maricopa and Pima Counties had the greatest numbers of gonorrhea cases among 10-19 year olds in 2010 (531 and 122 cases, respectively) (Tables 7-8).

Gender

- During 2001-2010, adolescent females had a 1.8 to 2.2-fold higher rate of gonorrhea compared to adolescent males (Figure 22).

Syphilis

Overview

- In 2010, there were 53 reported cases of syphilis among 10-19 year olds, corresponding to 5.8 cases per 100,000 population (Figures 1, 24).
- During 2008-2010, the rate of syphilis remained stable among 10-19 year olds (Figure 24).
- During 2005-2007, the rate of syphilis increased 94% among 10-19 year olds (Figure 24). The large increase from 2005 to 2007 was attributed to three significant syphilis outbreaks among Native Americans in Arizona and a rise in the number of cases in rural Arizona counties.

Race/Ethnicity

- In 2010, Native American and Black adolescents had the highest rates of syphilis morbidity (18.4 and 14.3 per 100,000, respectively) (Figure 25).
- The overall Arizona rate for syphilis among 10-19 year olds was 5.8 per 100,000 population in 2010 (Figure 25).
- In 2010, the rate of syphilis increased by 82% from the previous year among Native Americans (Figure 25).

County

- In 2010, Apache County had the highest rate of syphilis (15.2 per 100,000) among 10-19 year olds (Figure 26).
- Maricopa and Pima Counties had the greatest numbers of syphilis cases among 10-19 year olds in 2010 (30 and 15 cases, respectively) (Tables 11-12).

Gender

- During 2001-2010, adolescent females had a 0.7 to 4.4-fold higher rate of syphilis compared to males (Figure 27).

Genital Herpes

Overview

- In 2010, there were 194 reported cases of genital herpes among 10-19 year olds, corresponding to 21.3 cases per 100,000 population (Figures 1, 32).
- Herpes reporting is unreliable in estimating incidence of disease due to incomplete provider reporting, variable testing practices, and the chronic incurable nature of this infection.

Race/Ethnicity

- In 2010, Black and Native American adolescents had the highest rates of genital herpes (67.5 and 52.8 per 100,000, respectively) (Figure 30).
- The overall Arizona rate for genital herpes among 10-19 year olds was 21.3 cases per 100,000 population in 2009 (Figure 30).

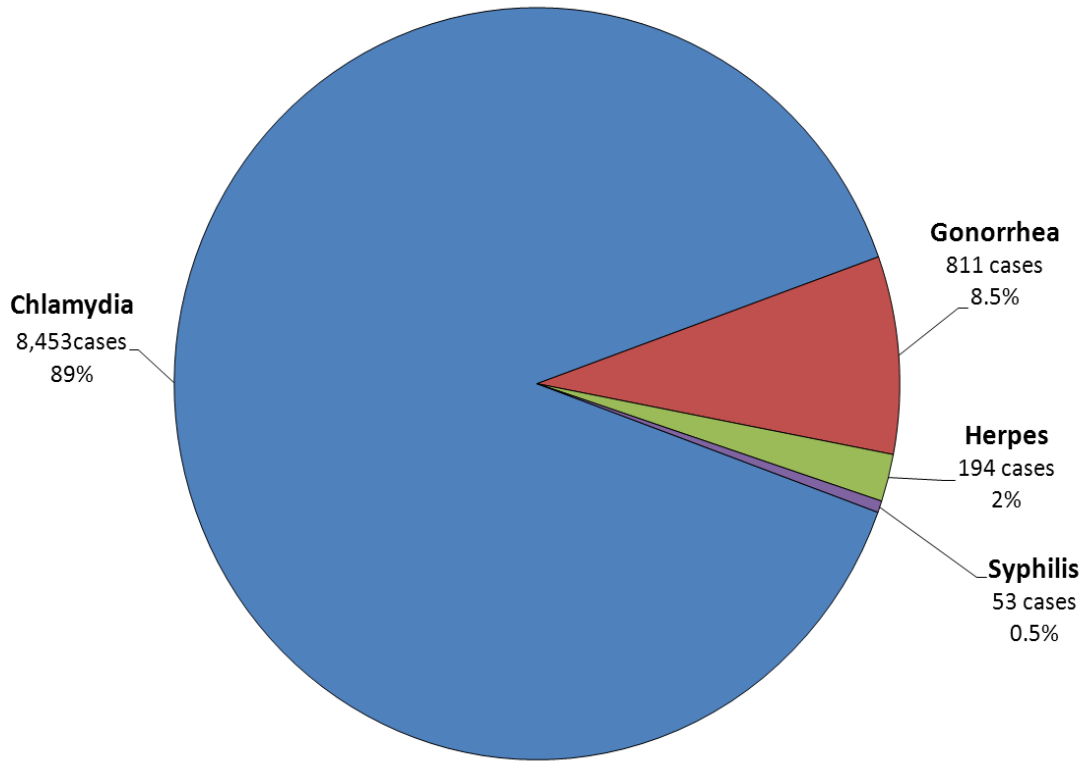
County

- Gila County had the highest rate of genital herpes (46.3 per 100,000) among 10-19 year olds (Figure 31).
- Pima and Maricopa Counties had the greatest numbers of genital herpes cases among 10-19 year olds in 2010 : (104 and 36 cases, respectively) (Tables 15-16).

Gender

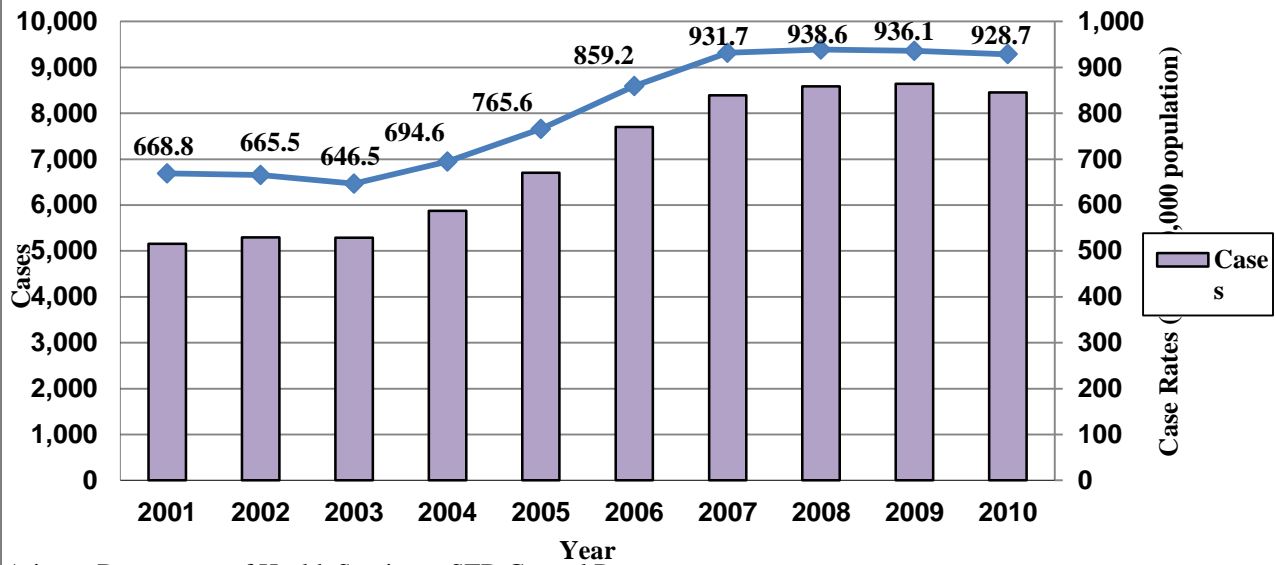
- During 2001-2010, adolescent females had a 2.8 to 7.4-fold higher rate of genital herpes compared to adolescent males (Figure 32).

Figure 1. Reportable Sexually Transmitted Diseases in 10-19 Year Olds, Arizona 2010



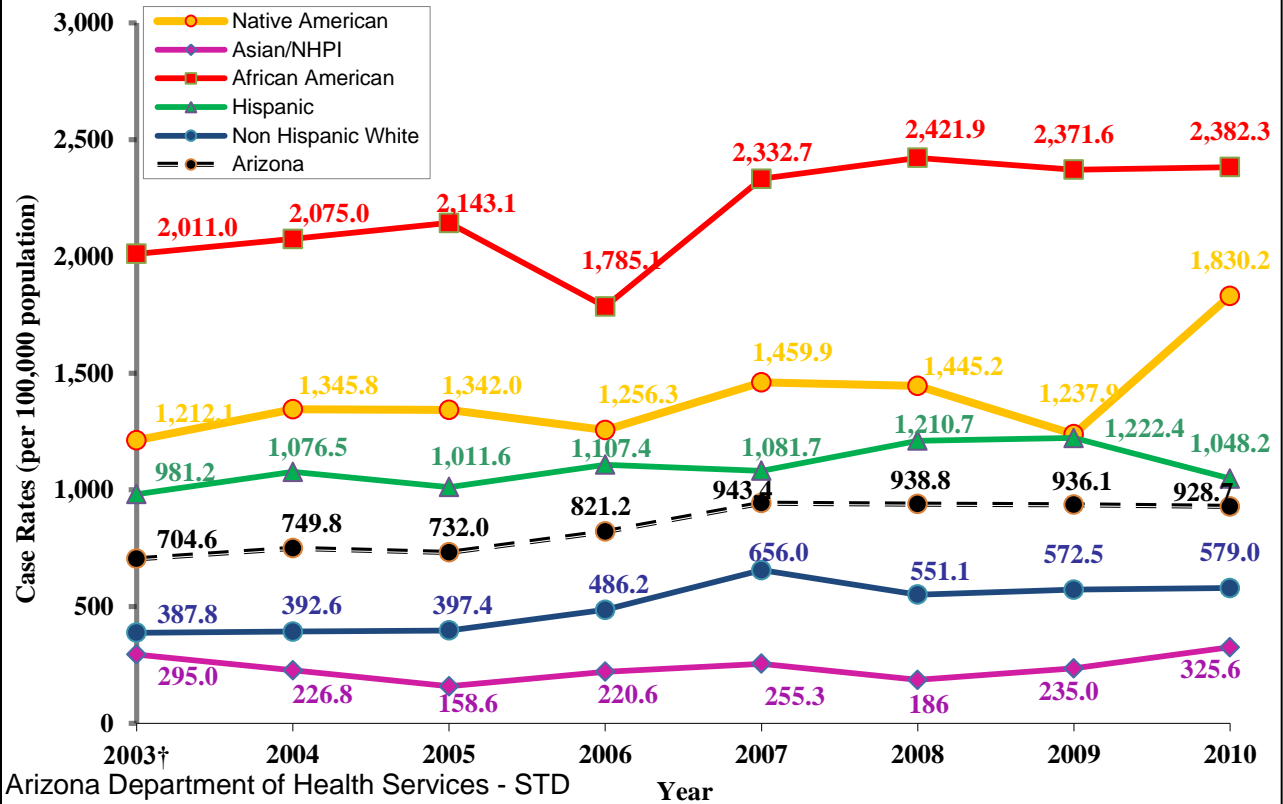
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Figure 2: Reported Chlamydia Cases and Case Rates per 100,000 Population in 10-19 Year Olds, Arizona 2001-2010



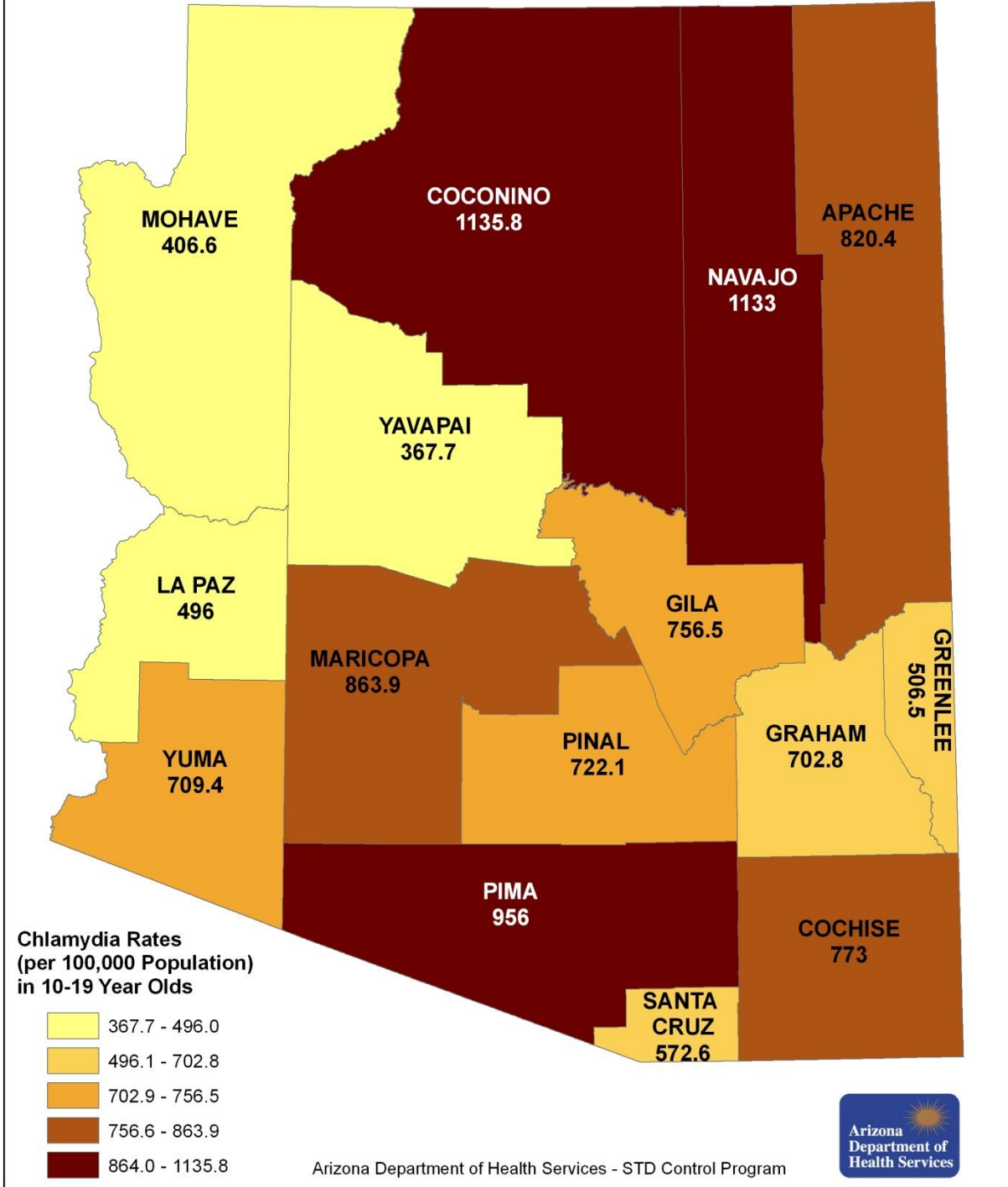
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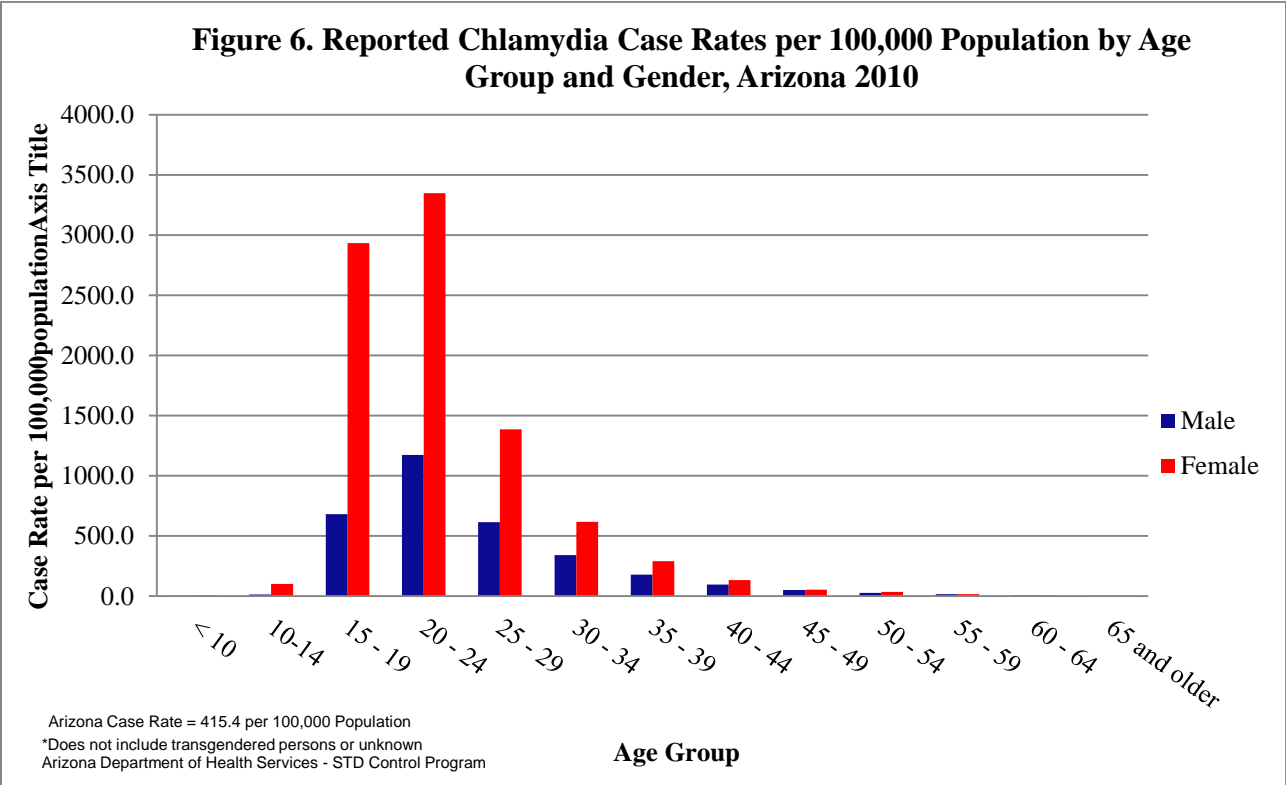
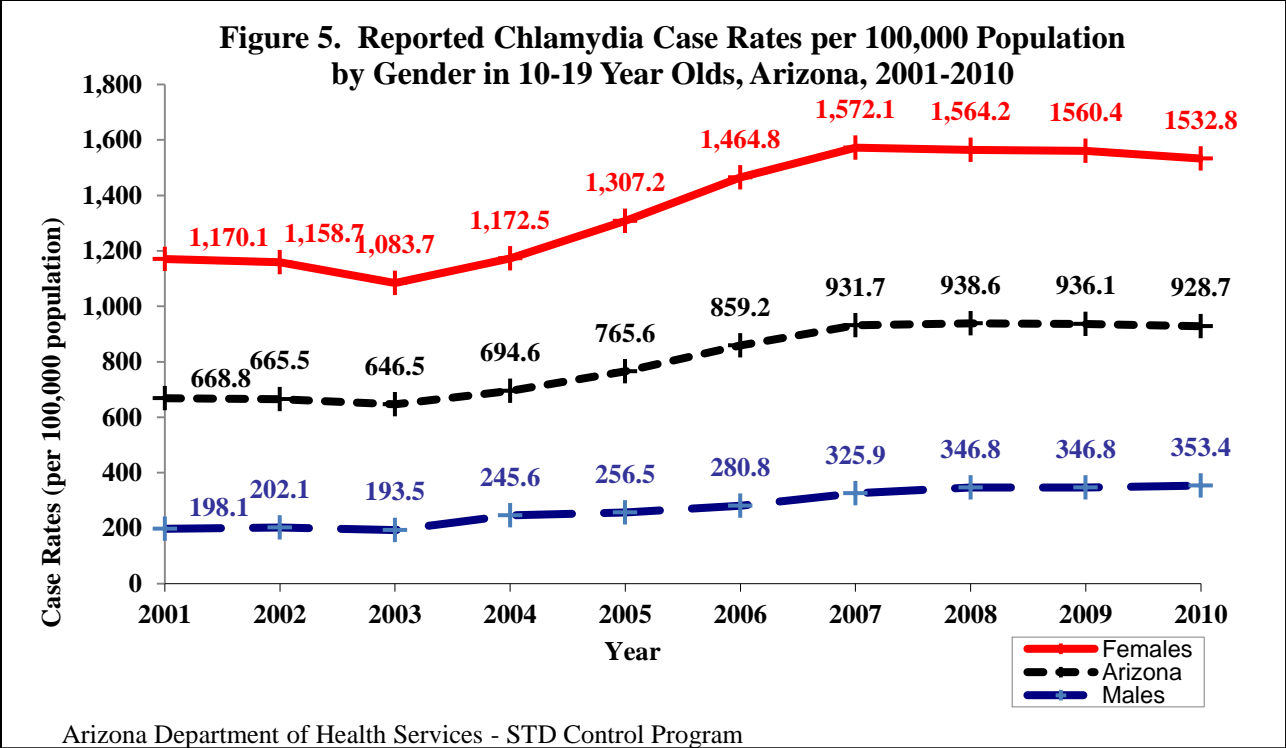
Figure 3. Reported Chlamydia Case Rates per 100,000 Population by Race/Ethnicity in 10-19 Year Olds, Arizona, 2003-2010



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Figure 4. Reported Chlamydia Case Rates per 100,000 Population by County in 10-19 Year Olds, Arizona 2010





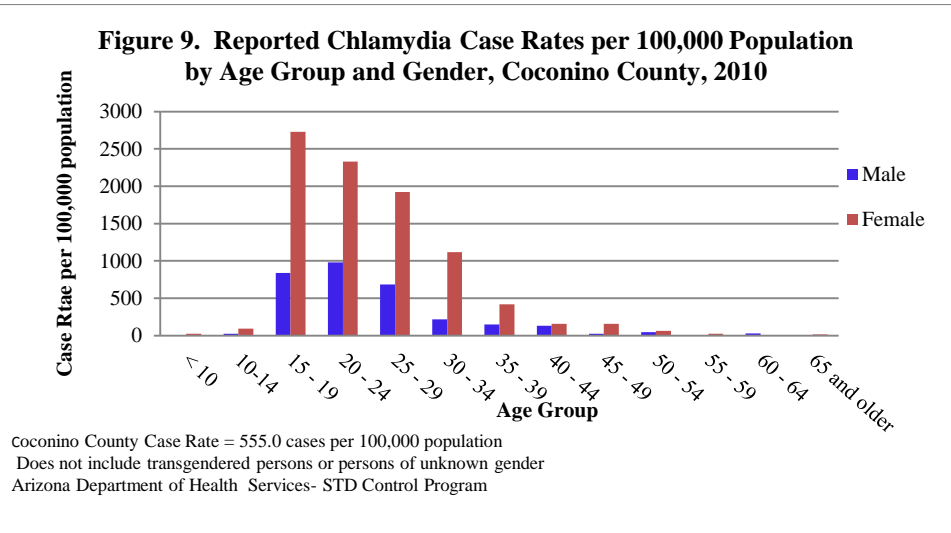
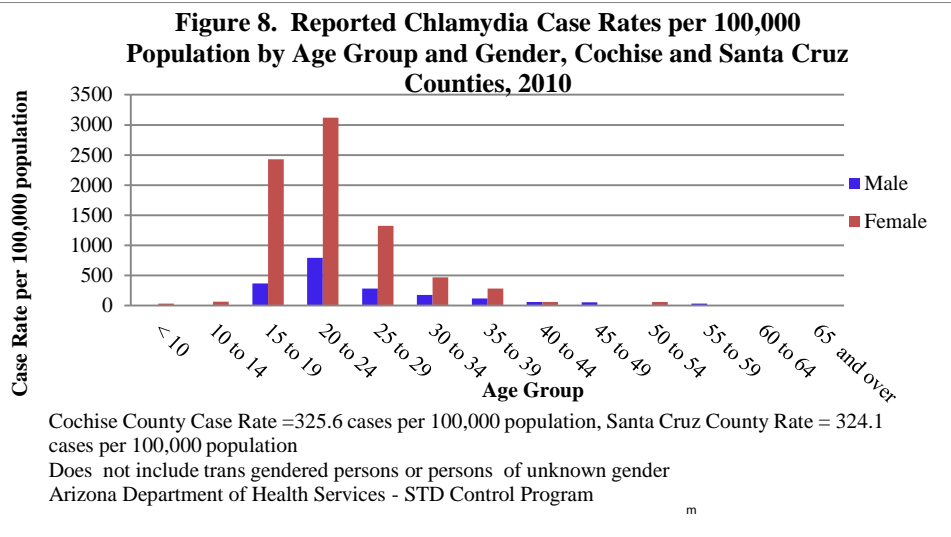
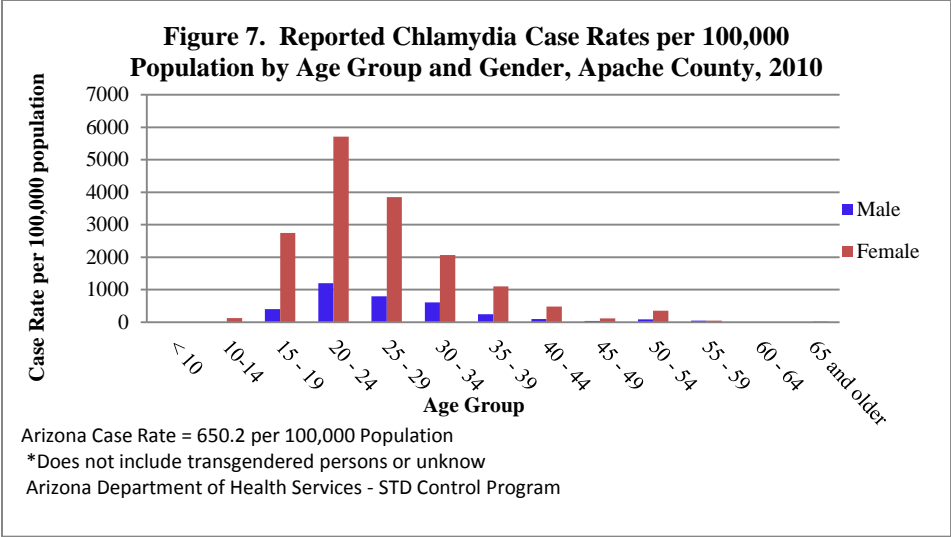
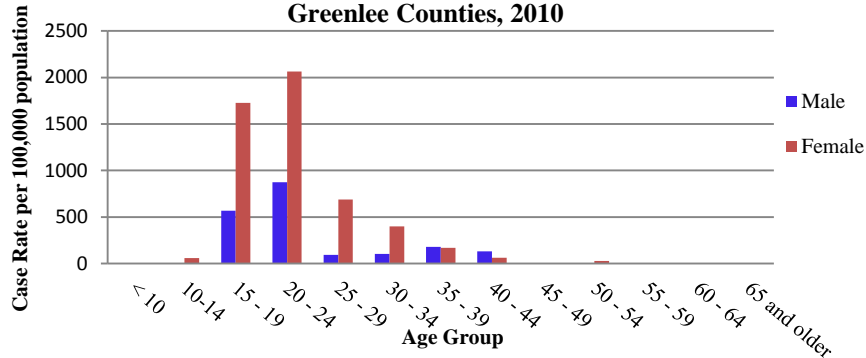
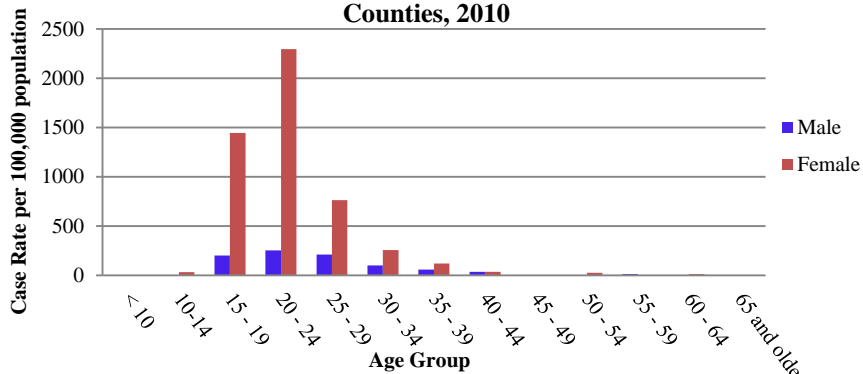


Figure 10. Reported Chlamydia Case Rates per 100,000 Population by Age Group and Gender, Gila Graham and Greenlee Counties, 2010



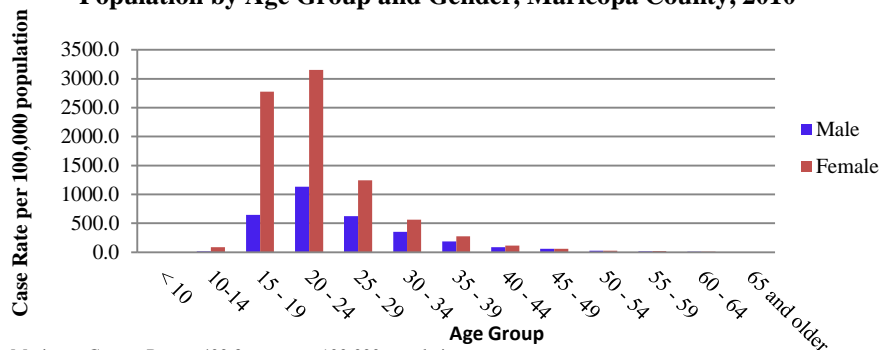
Gila County Case Rates = 238.8 cases per 100,000 population , Graham County Case Rates = 341.2 cases per 100,000 population ,
 Greenlee County Case Rate= 177.8 cases per 100,000 population
 Does not include transgendered persons or persons of unknown gender

Figure 11. Reported Chlamydia Case Rates per 100,000 Population by Age Group and Gender, La Paz and Mohave Counties, 2010



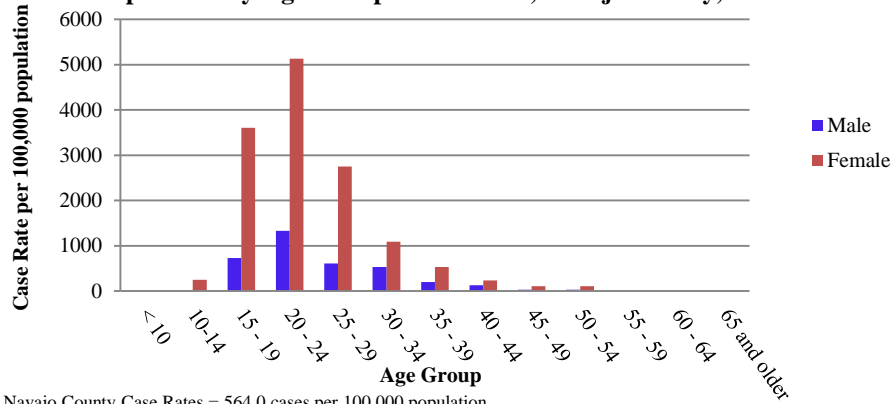
La Paz County Case Rate = 107.4 cases per 100,000 population , Mohave County Case Rate = 145.4 cases per 100,000 population
 Does not include transgendered persons or persons of unknown gender
 Arizona Department of Health Services- STD Control Program

Figure 12. Reported Chlamydia Case Rates per 100,000 Population by Age Group and Gender, Maricopa County, 2010



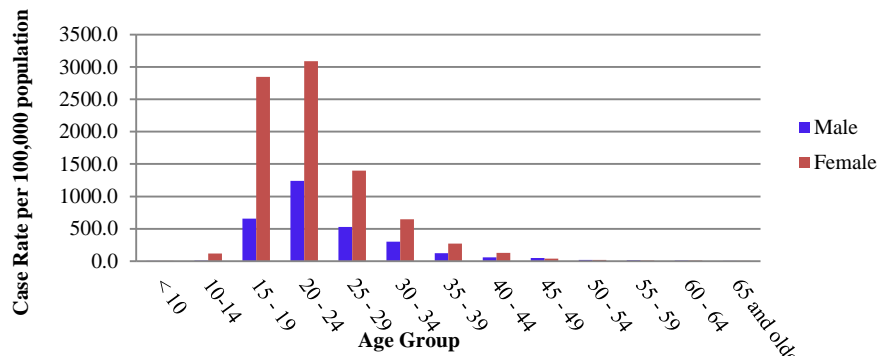
Maricopa County Rate = 402.3 cases per 100,000 population
 Does not include transgendered persons or persons of unknown gender
 Arizona Department of Health Services- STD Control Program

Figure 13. Reported Chlamydia Case Rates per 100,000 Population by Age Group and Gender, Navajo County, 2010



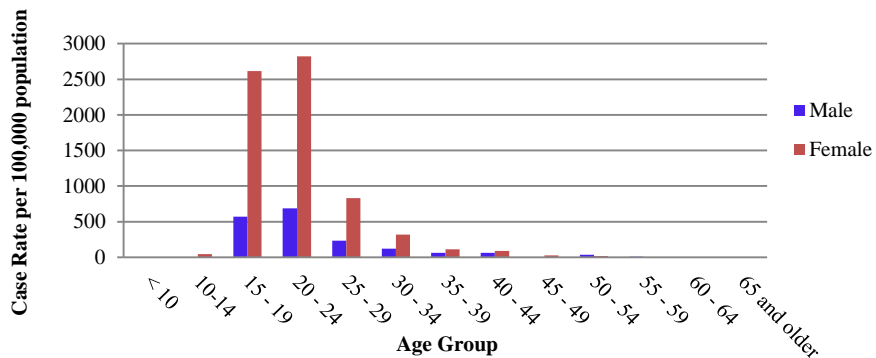
Navajo County Case Rates = 564.0 cases per 100,000 population
 Does not include transgendered persons or persons of unknown gender
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Figure 14. Reported Chlamydia Case Rates per 100,000 Population by Age Group and Gender, Pima County, 2010



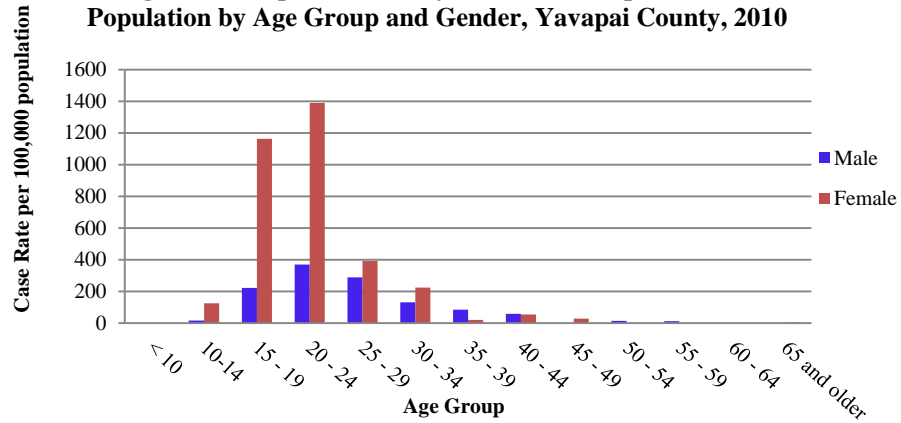
Pima County Case Rate = 411.7 cases per 100,000 population
 Does not include transgendered persons or persons of unknown gender
 Arizona Department of Health Services- STD Control Program

Figure 15. Reported Chlamydia Case Rates per 100,000 Population by Age Group and Gender, Pinal County, 2010



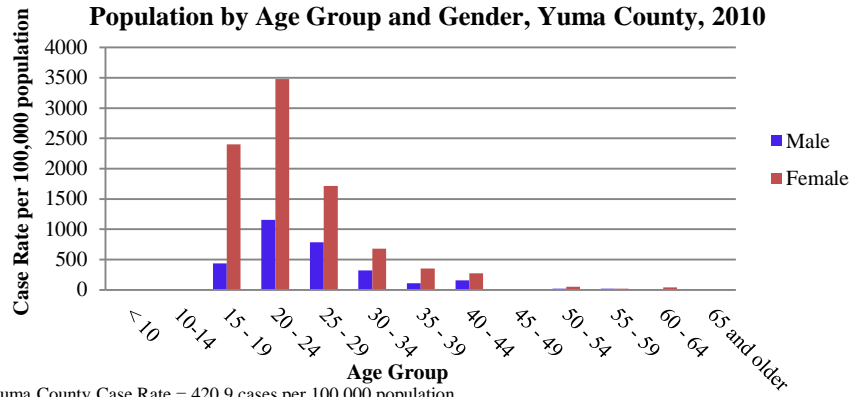
Pinal County Case Rates = 251.0 cases per 100,000 population
 Does not include transgendered persons or persons of unknown gender
 Arizona Department of Health Services- STD Control Program

Figure 16. Reported Chlamydia Case Rates per 100,000 Population by Age Group and Gender, Yavapai County, 2010



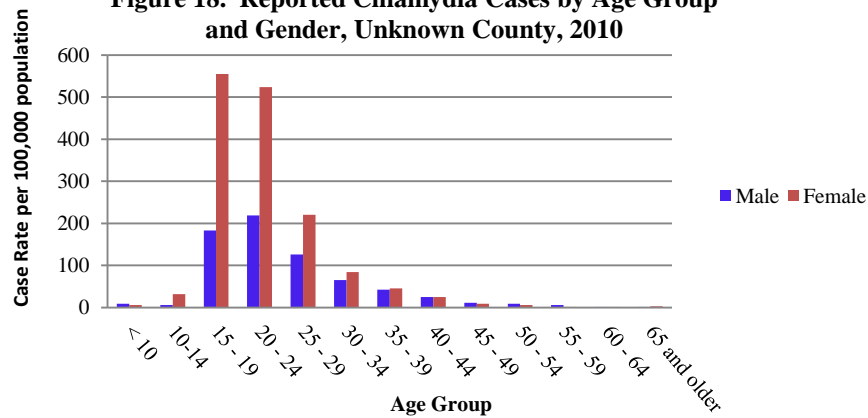
Yavapai County Case Rate = 112.3 cases per 100,000 population
 Does not include transgendered persons or persons of unknown gender
 Arizona Department of Health Services- STD Control Program

Figure 17. Reported Chlamydia Case Rates per 100,000 Population by Age Group and Gender, Yuma County, 2010



Yuma County Case Rate = 420.9 cases per 100,000 population
 Does not include transgendered persons or persons of unknown gender
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Figure 18. Reported Chlamydia Cases by Age Group and Gender, Unknown County, 2010



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Table1. Female Chlamydia Case Rates per 100,000 Population by Age and County, Arizona 2010

Age Group	Cochise & Santa Cruz		Gila, Graham & Greenlee		La Paz & Mohave		Navajo	Pima	Pinal	Yavapai	Yuma	Arizona
	Apache	Cruz	Coconino	Greenlee	Mohave	Maricopa						
< 10	0.0	33.8	*23	0.0	0.0	2.5	0.0	4.9	0.0	0.0	0.0	4.9
10 - 14	128.2	65.5	94.4	*61	*32	86.1	250.9	115.8	46.2	123.8	0.0	102.0
15 - 19	2,746.4	2,428.2	2,727.4	2,182.8	1,444.4	2,778.6	3,608.5	2,848.2	2,613.4	1,163.4	2,401.9	2,934.0
20 - 24	5,716.8	3,117.3	2,329.9	3,051.8	2,295.3	3,152.1	5,133.0	3,088.9	2,822.6	1,389.5	3,478.3	3,348.5
25 - 29	3,848.2	1,323.3	1,923.5	945.3	761.3	1,240.9	2,752.0	1,396.2	833.2	390.4	1,713.7	1,385.3
30 - 34	2,070.8	466.9	1,116.3	518.4	255.1	559.3	1,092.9	645.5	318.3	223.6	680.1	615.7
35 - 39	1,100.6	281.7	418.4	217.1	119.2	272.4	533.4	271.1	110.8	*20	354.8	291.0
40 - 44	479.4	57.3	157.8	*77	*35	116.2	237.3	125.6	88.6	54.4	271.6	133.4
45 - 49	123.4	0.0	156.5	0.0	0.0	56.2	109.3	36.7	29.4	*28	0.0	53.1
50 - 54	358.1	61.3	62.1	*29	*24	25.8	108.3	20.1	*19	0.0	52.7	34.3
55 - 59	*47	0.0	*23	0.0	0.0	21.0	0.0	8.9	0.0	0.0	*20	*15
60 - 64	0.0	0.0	0.0	0.0	*11	6.0	0.0	*7	0.0	0.0	*40	*7
65 and Older	*22	0.0	*16	0.0	0.0	3.1	0.0	*1	0.0	*4	0.0	3.1
Total	1,065.8	478.5	820.6	427.0	240.8	571.3	888.7	594.4	399.2	160.8	619.0	600.1

*Denotes rounded rates due to case counts <6

**1511 Cases from Unknown Counties (Not shown) are included in the total Arizona Rates

Table 2. Male Chlamydia Case Rates per 100,000 Population by Age and County, Arizona 2010

Age Group	Cochise & Santa Cruz		Gila, Graham & Greenlee		La Paz & Mohave		Navajo	Pima	Pinal	Yavapai	Yuma	Unknown
	Apache	Cruz	Coconino	Greenlee	Mohave	Maricopa						
< 10	0.0	*8	0.0	0.0	0.0	1.0	0.0	4.7	0.0	0.0	0.0	3.4
10 - 14	0.0	0.0	*23	0.0	0.0	14.9	0.0	9.4	0.0	*16	0.0	14.0
15 - 19	399.7	366.4	838.5	568.0	199.5	642.6	730.2	654.7	569.7	221.2	436.5	681.1
20 - 24	1,198.8	792.8	978.1	872.5	252.4	1,133.6	1,329.6	1,241.6	687.9	369.2	1,157.0	1,172.7
25 - 29	800.8	284.6	683.9	93.2	208.7	625.2	612.0	529.9	234.4	288.9	786.2	614.3
30 - 34	606.7	176.8	216.6	104.1	99.2	353.6	530.7	299.1	123.0	129.8	322.7	341.6
35 - 39	250.0	116.6	149.1	179.9	58.3	184.8	200.9	122.7	64.6	83.8	110.4	178.4
40 - 44	*95	58.8	130.0	131.9	*34	88.2	130.4	59.4	61.6	57.5	157.9	95.7
45 - 49	*42	52.4	*24	0.0	0.0	57.8	*28	50.3	0.0	0.0	0.0	50.8
50 - 54	*87	0.0	*45	0.0	0.0	25.3	*29	18.6	36.4	*13	*19	27.7
55 - 59	*49	*35	0.0	0.0	*13	14.1	0.0	13.2	*10	*12	*22	17.4
60 - 64	0.0	0.0	*29	0.0	0.0	6.7	0.0	*7	0.0	0.0	0.0	*6
65 and Older	0.0	*7	0.0	0.0	0.0	2.9	0.0	*1	0.0	0.0	0.0	*2
Total	232.6	128.4	285.0	125.5	43.4	229.7	239.9	222.5	116.7	61.9	223.5	228.4

*Denotes rounded rates due to case counts <6

**703 Cases from Unknown Counties (Not shown) are included in the total Arizona Rates

Table 3. Female Chlamydia Cases by Age and County, Arizona, 2010

Age Group	Cochise & Santa Cruz, Gila, Graham & Greenlee, La Paz & Mohave, Maricopa, Navajo, Pima, Pinal, Yavapai, Yuma, Unknown												Arizona
	Apache	Cochise & Santa Cruz	Coconino	Gila, Graham & Greenlee	La Paz & Mohave	Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Unknown	
< 10	*	*	*	*	*	7	*	*	*	*	*	6	22
10 - 14	*	*	*	*	*	117	11	35	6	7	*	32	224
15 - 19	90	153	191	75	90	3733	160	1001	280	65	188	555	6,581
20 - 24	132	152	190	86	113	4077	166	1138	257	66	232	524	7,133
25 - 29	73	70	90	23	37	1697	80	455	102	18	105	220	2,970
30 - 34	38	23	45	12	12	734	30	193	41	10	37	84	1,259
35 - 39	21	14	16	*	6	362	15	79	13	*	21	45	598
40 - 44	10	*	6	*	*	149	7	36	9	*	16	25	268
45 - 49	*	*	7	*	*	74	*	12	*	*	*	9	114
50 - 54	9	*	*	*	*	32	*	7	*	*	*	6	73
55 - 59	*	*	*	*	*	23	*	*	*	*	*	*	30
60 - 64	*	*	*	*	*	6	*	*	*	*	*	*	12
65 and Old	*	*	*	*	*	8	*	*	*	*	*	*	15
Total	382	427	556	206	265	11019	477	2965	713	173	605	1,511	19,299

*Denotes case counts <6

Table 4. Male Chlamydia Cases by Age and County, Arizona, 2010

Age Group	Cochise & Santa Cruz, Gila, Graham & Greenlee, La Paz & Mohave, Maricopa, Navajo, Pima, Pinal, Yavapai, Yuma, Unknown												Arizona
	Apache	Cochise & Santa Cruz	Coconino	Gila, Graham & Greenlee	La Paz & Mohave	Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Unknown	
< 10	*	*	*	*	*	*	*	*	*	*	*	9	16
10 - 14	*	*	*	*	*	21	*	*	*	*	*	6	32
15 - 19	14	26	53	21	13	916	34	237	68	14	37	183	1,616
20 - 24	29	47	76	28	13	1559	47	478	83	20	93	219	2,692
25 - 29	17	17	36	*	11	875	20	178	36	14	53	126	1,386
30 - 34	12	9	9	*	*	471	16	90	20	6	19	65	725
35 - 39	*	6	6	*	*	246	6	36	10	*	6	42	375
40 - 44	*	*	*	*	*	115	*	17	8	*	9	25	197
45 - 49	*	*	*	*	*	75	*	16	*	*	*	11	108
50 - 54	*	*	*	*	*	30	*	6	*	*	*	9	56
55 - 59	*	*	*	*	*	14	*	*	*	*	*	6	31
60 - 64	*	*	*	*	*	6	*	*	*	*	*	*	10
65 and Old	*	*	*	*	*	6	*	*	*	*	*	*	9
Total	83	115	190	64	48	4337	129	1071	230	64	219	703	7,253

*Denotes case counts <6

Unknown gender and transgender cases not included in the tables

Figure 19: Gonorrhea Cases and Case Rates per 100,000 Population in 10-19 Year Olds, Arizona, 2001-2010

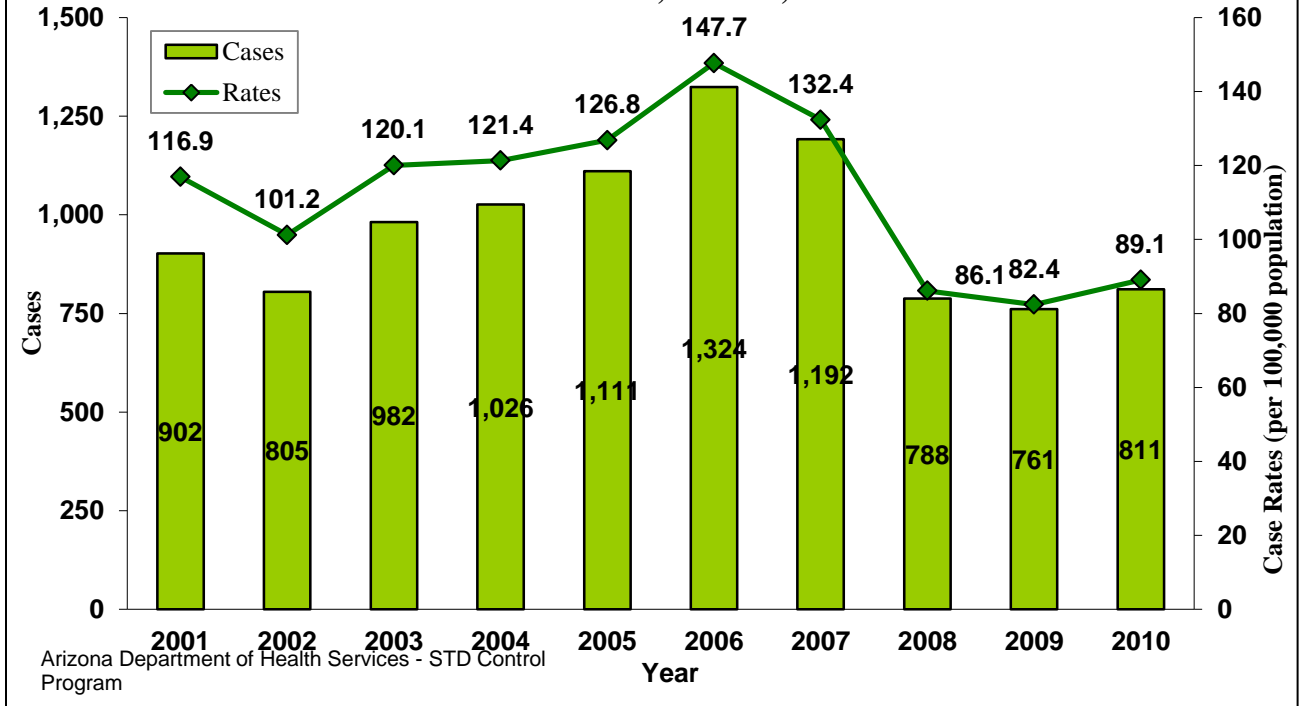


Figure 20. Reported Gonorrhea Case Rates per 100,000 Population by Race/Ethnicity in 10-19 Year Olds, Arizona, 2003-2010

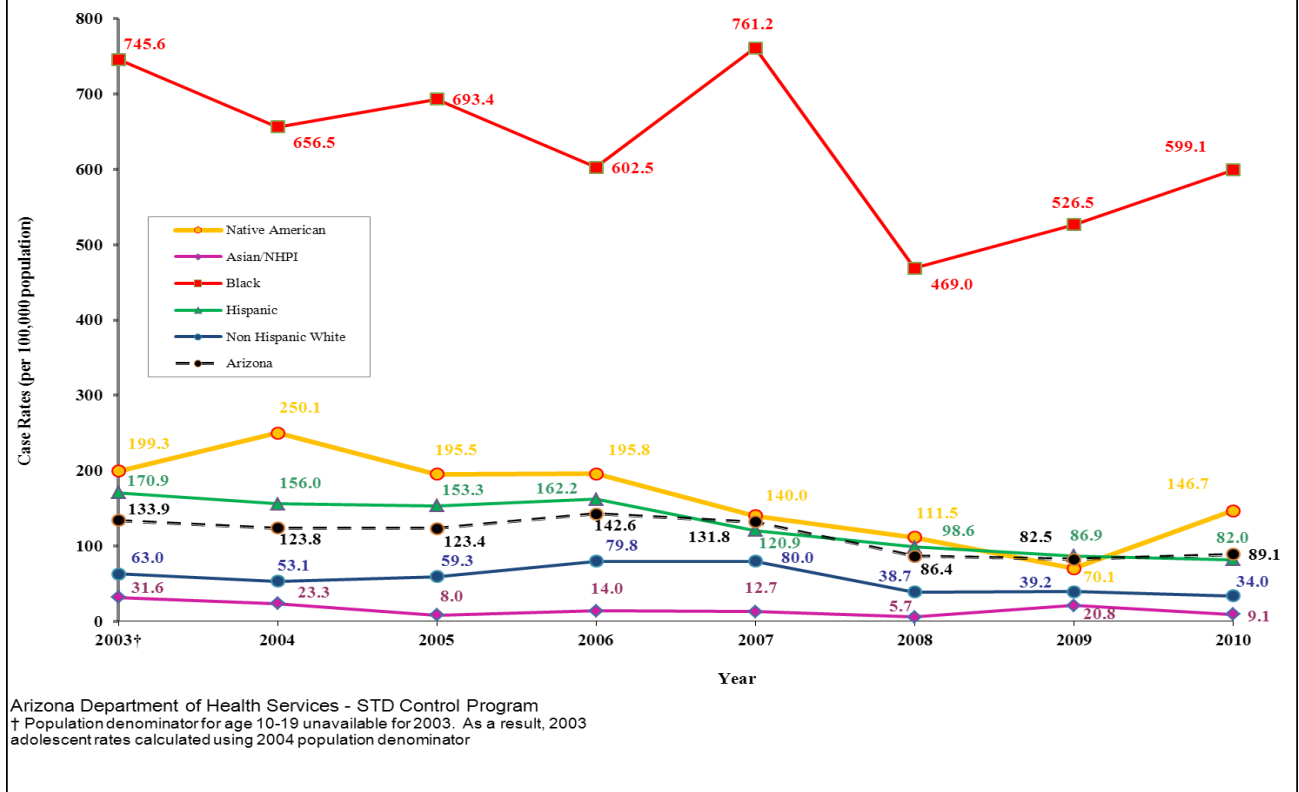


Figure 21. Reported Gonorrhea Case Rates per 100,000 Population by County in 10-19 Year Olds, Arizona 2010

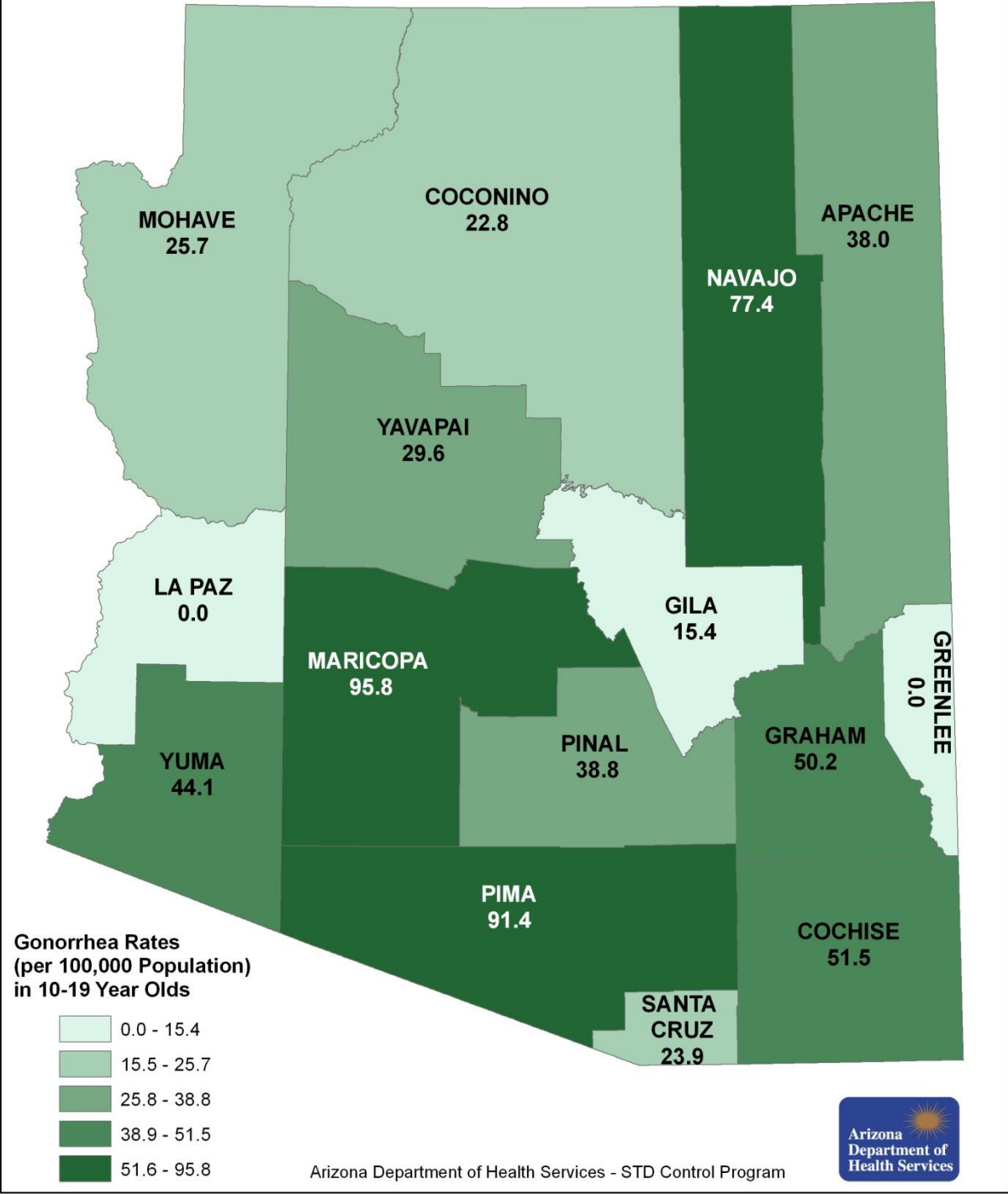


Figure 22: Gonorrhea Case Rates per 100,000 Population by Gender in 10-19 Year Olds, Arizona, 2001-2010

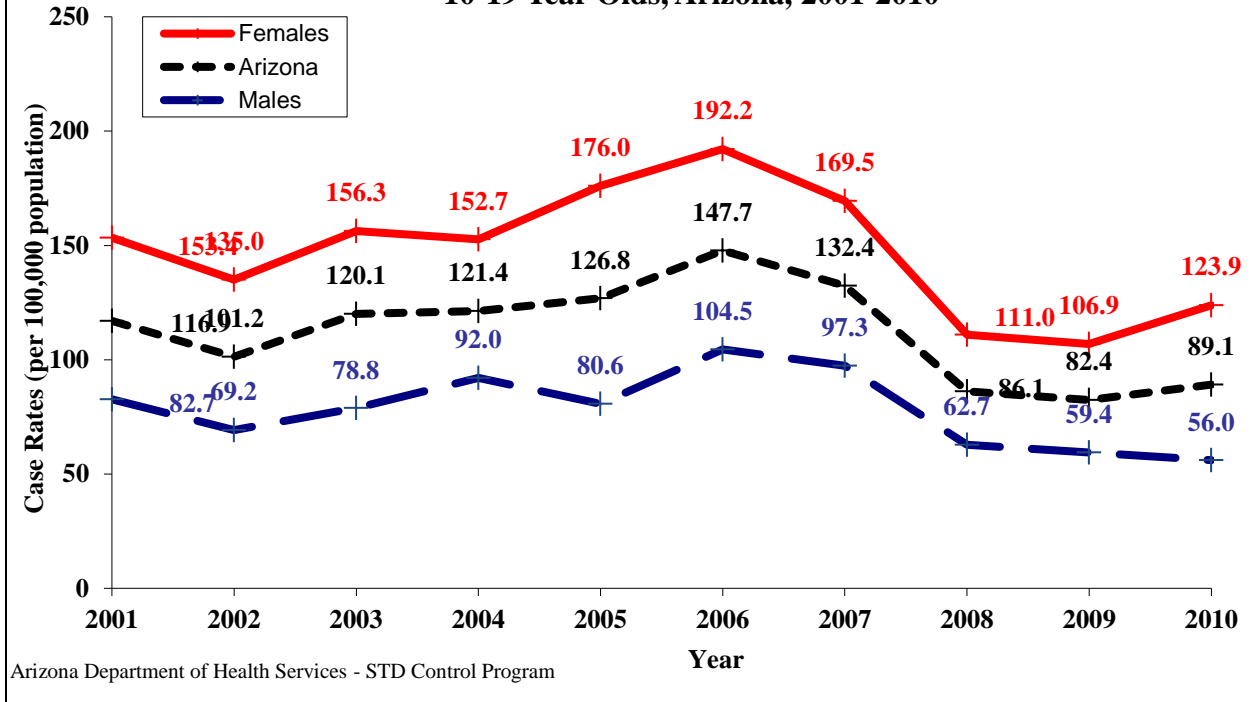


Figure 23: Reported Gonorrhea Case Rates per 100,000 Population by Age Group and Gender, Arizona, 2010

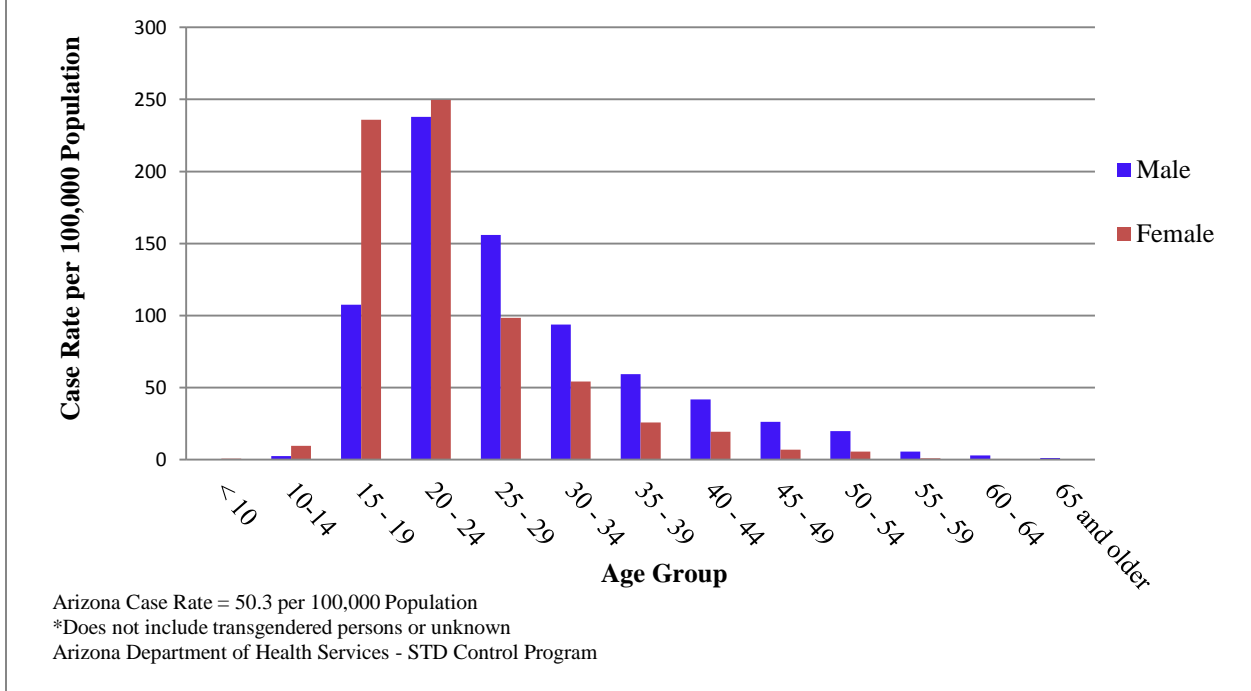


Table 5 : Female Gonorrhea Case Rates per 100,000 Population by Age and County, Arizona 2010

Age Group	Cochise & Santa Cruz			Gila, Graham & La Paz & Mohave		Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Arizona
	Apache	Cruz	Coconino	Greenlee	Mohave							
< 10	0.0	0.0	0.0	*0	0.0	0.7	*0	*0	0.0	*0	6.8	0.7
10 - 14	0.0	0.0	0.0	*30	0.0	9.6	22.8	6.6	0.0	*18	0.0	9.6
15 - 19	122.1	142.8	*57	29.1	*80	250.1	180.4	247.5	149.3	35.8	140.5	235.8
20 - 24	303.2	143.6	24.5	*284	20.3	278.3	123.7	225.3	153.8	*84	224.9	249.7
25 - 29	*158	*0	85.5	41.1	0.0	109.0	*172	73.6	40.8	*22	97.9	98.4
30 - 34	*54	20.3	0.0	0.0	*0	61.7	36.4	53.5	*0	22.4	55.1	54.3
35 - 39	*52	*0	0.0	*0	*20	26.3	*0	24.0	*9	0.0	*0	25.8
40 - 44	47.9	19.1	*0	38.7	17.3	16.4	33.9	*24	9.8	0.0	34.0	19.4
45 - 49	*0	0.0	22.4	0.0	0.0	9.9	0.0	*3	0.0	0.0	0.0	7.0
50 - 54	39.8	0.0	0.0	0.0	0.0	*6	0.0	2.9	0.0	0.0	0.0	5.6
55 - 59	0.0	0.0	0.0	0.0	0.0	*2	0.0	0.0	0.0	0.0	0.0	1.0
60 - 64	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.5
65 and Older	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	50.2	20.2	16.2	24.9	7.3	52.9	37.3	45.7	20.7	8.4	38.9	47.5

*Denotes rounded rates due to case counts <6

**110 cases from unknown counties (not shown) were calculated into Arizona case rates

Table 6 : Male Gonorrhea Case Rates per 100,000 Population by Age and County, Arizona 2010

Age Group	Cochise & Santa Cruz			Gila, Graham & La Paz & Mohave		Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Arizona
	Apache	Cruz	Coconino	Greenlee	Mohave							
< 10	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 - 14	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	2.6
15 - 19	*29	*28	*16	*54	*15	123.5	107.4	91.2	25.1	63.2	35.4	107.5
20 - 24	*83	118.1	90.1	*31	0.0	266.1	113.2	233.8	58.0	0.0	211.5	237.8
25 - 29	*47	67.0	0.0	*31	*19	197.2	91.8	101.2	26.0	*41	44.5	156.0
30 - 34	151.7	58.9	0.0	*69	0.0	123.1	*66	36.6	0.0	*22	51.0	93.8
35 - 39	*50	*19	*25	0.0	*19	72.9	0.0	30.7	0.0	0.0	*18	59.5
40 - 44	0.0	0.0	0.0	0.0	0.0	49.8	0.0	24.4	0.0	0.0	*18	41.8
45 - 49	0.0	0.0	0.0	0.0	0.0	36.2	0.0	9.4	*8	0.0	0.0	26.4
50 - 54	0.0	0.0	*22	0.0	0.0	25.3	*58	*6	*9	0.0	0.0	19.8
55 - 59	0.0	0.0	0.0	0.0	0.0	5.0	0.0	13.2	0.0	0.0	0.0	*6
60 - 64	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	*3
65 and Older	0.0	0.0	0.0	0.0	0.0	2.0	0.0	*1	0.0	0.0	0.0	1.2
Total	22.4	19.0	15.0	11.8	2.7	65.7	29.8	40.3	8.1	6.8	28.6	53.1

*Denotes rounded rates due to case counts <6

**140 cases from unknown counties (not shown) were calculated into Arizona case rates

**Unknown gender and transgender cases not included in the tables

Table 7. Female Gonorrhea Cases by Age and County, Arizona, 2010

Age Group	Cochise & Santa Cruz		Gila, Graham & La Paz & Mohave			Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Unknown	Arizona
	Apache	Cruz	Coconino	Greenlee	Mohave								
< 10	*	*	*	*	*	*	*	*	*	*	*	*	*
10 - 14	*	*	*	*	*	13	*	*	*	*	*	*	21
15 - 19	*	9	*	*	*	336	8	87	16	*	11	46	529
20 - 24	7	7	*	8	*	360	*	83	14	*	15	27	532
25 - 29	*	*	*	*	*	149	*	24	*	*	6	13	211
30 - 34	*	*	*	*	*	81	*	16	*	*	*	7	111
35 - 39	*	*	*	*	*	35	*	7	*	*	*	8	53
40 - 44	*	*	*	*	*	21	*	7	*	*	*	*	39
45 - 49	*	*	*	*	*	13	*	*	*	*	*	*	15
50 - 54	*	*	*	*	*	7	*	*	*	*	*	*	12
55 - 59	*	*	*	*	*	*	*	*	*	*	*	*	*
60 - 64	*	*	*	*	*	*	*	*	*	*	*	*	*
65 and Older	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	18	18	11	12	8	1020	20	228	37	9	38	110	1,529

*Denotes case counts <6

Unknown gender and transgender cases not included in the tables

Table 8. Male Gonorrhea Cases by Age and County, Arizona, 2010

Age Group	Cochise & Santa Cruz		Gila, Graham & La Paz & Mohave			Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Unknown	Arizona
	Apache	Cruz	Coconino	Greenlee	Mohave								
< 10	*	*	*	*	*	*	*	*	*	*	*	*	*
10 - 14	*	*	*	*	*	6	*	*	*	*	*	*	6
15 - 19	*	*	*	*	*	176	*	33	*	*	*	24	255
20 - 24	*	7	7	*	*	366	*	90	7	*	17	45	546
25 - 29	*	*	*	*	*	276	*	34	*	*	*	23	352
30 - 34	*	*	*	*	*	164	*	11	*	*	*	10	199
35 - 39	*	*	*	*	*	97	*	9	*	*	*	14	125
40 - 44	*	*	*	*	*	65	*	7	*	*	*	13	86
45 - 49	*	*	*	*	*	47	*	*	*	*	*	*	56
50 - 54	*	*	*	*	*	30	*	*	*	*	*	*	40
55 - 59	*	*	*	*	*	*	*	*	*	*	*	*	10
60 - 64	*	*	*	*	*	*	*	*	*	*	*	*	*
65 and Older	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	8	17	10	6	*	1240	16	194	16	7	28	140	1,685

*Denotes case counts <6

Unknown gender and transgender cases not included in the tables

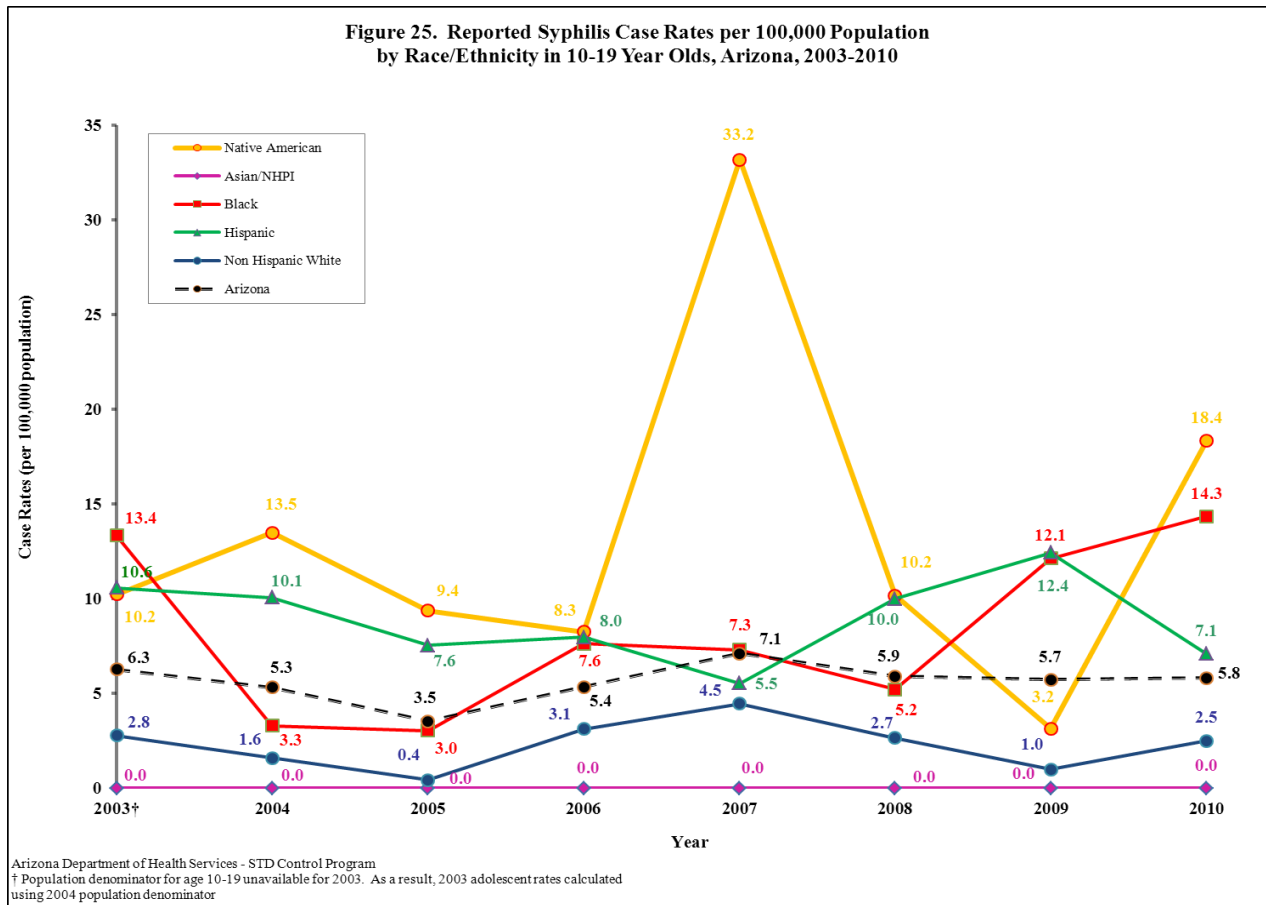
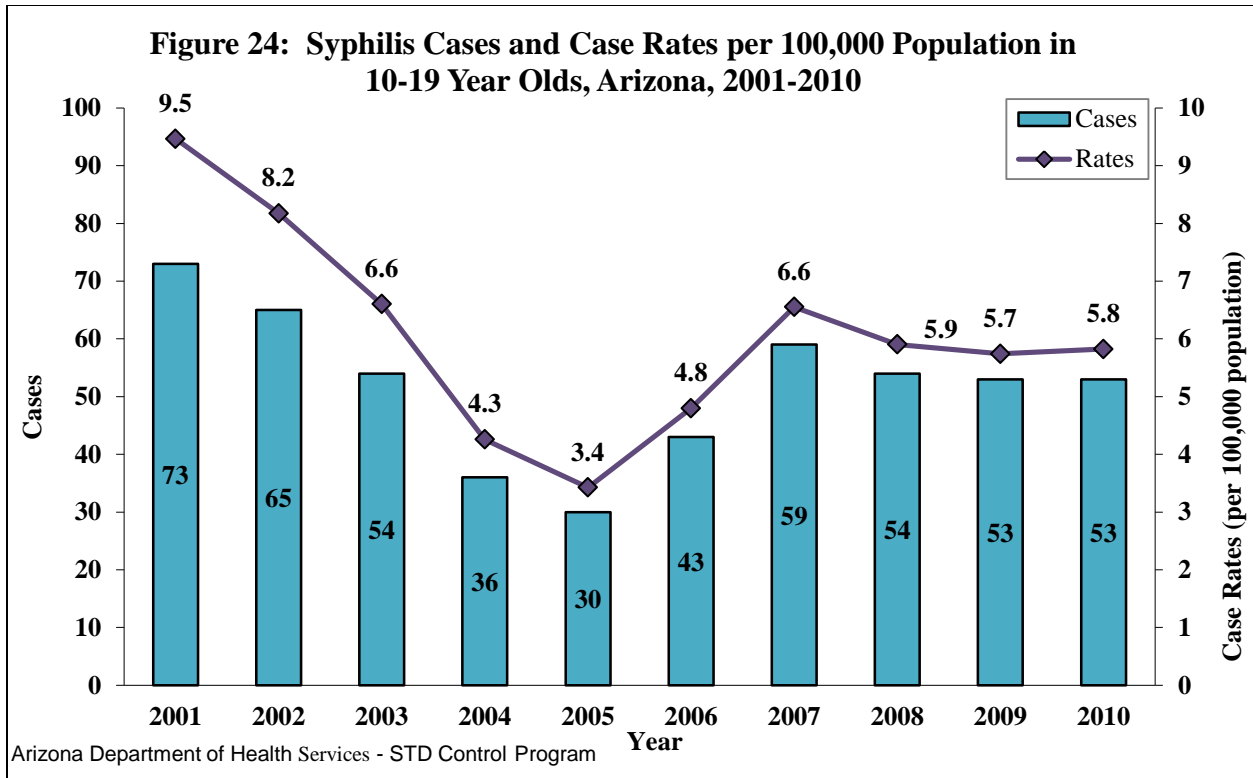


Figure 26. Reported Syphilis Case Rates per 100,000 Population by County in 10-19 Year Olds, Arizona 2010

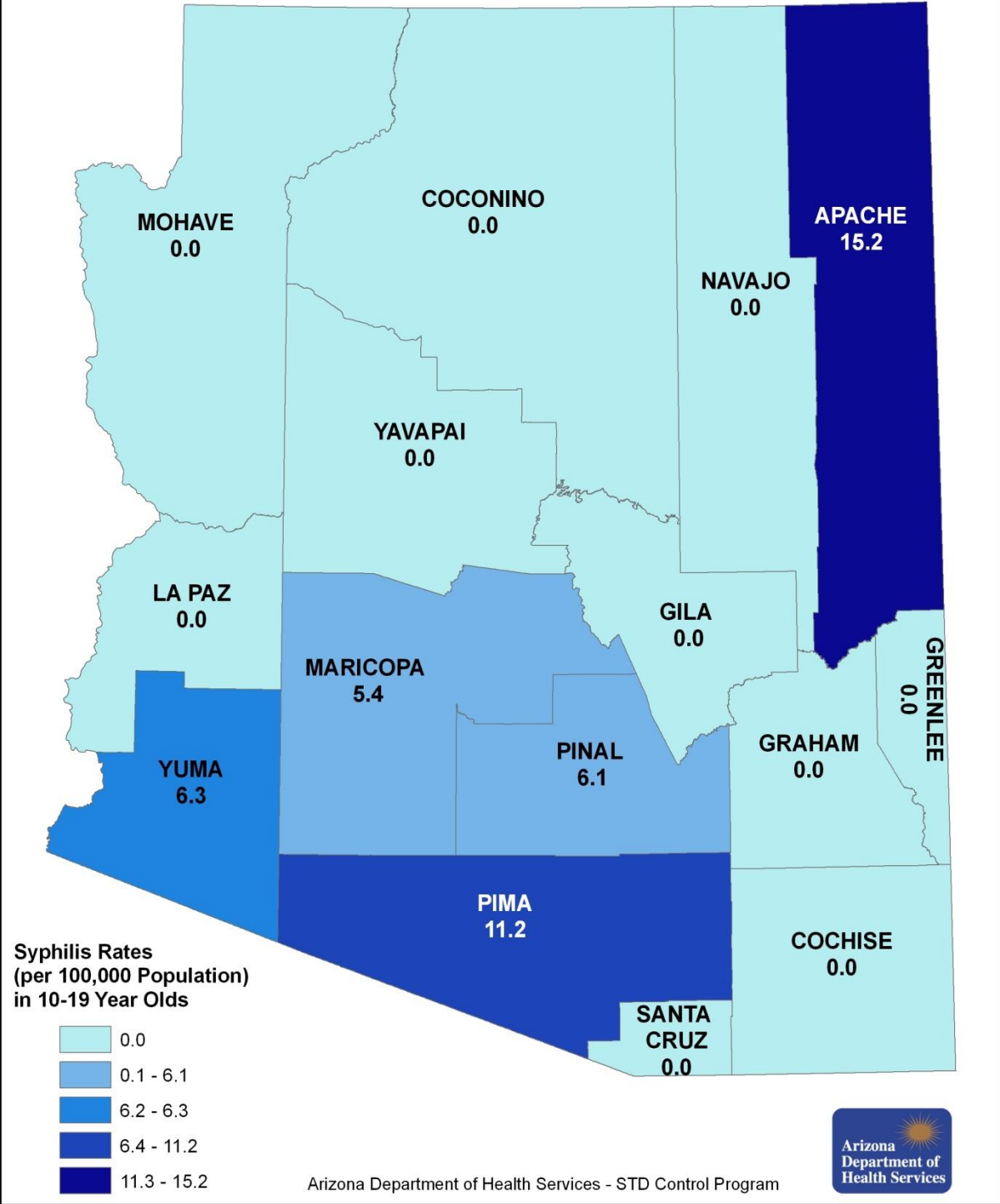
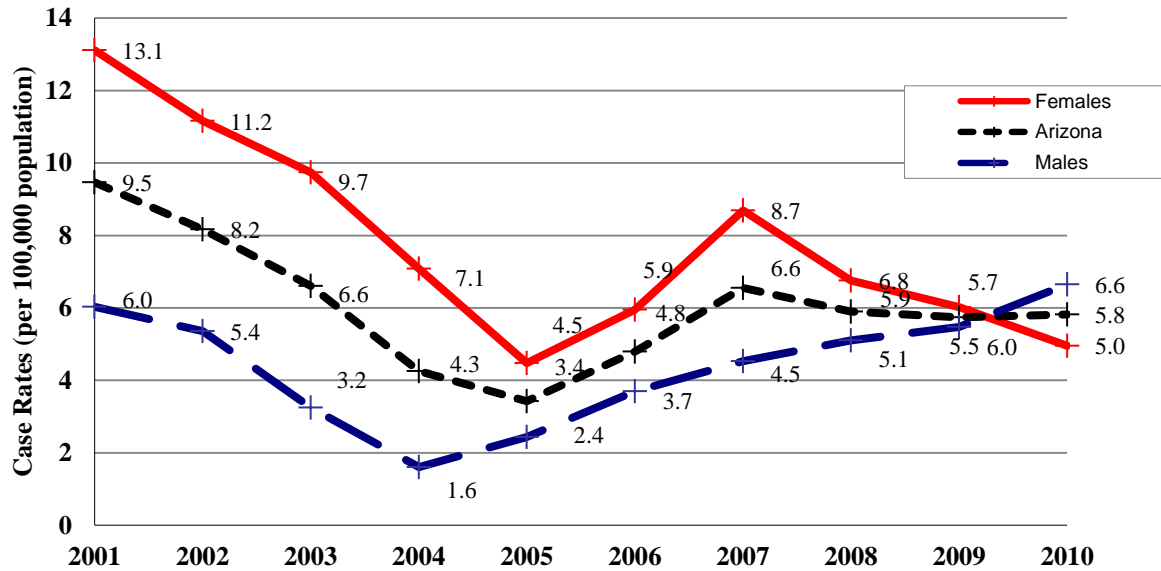
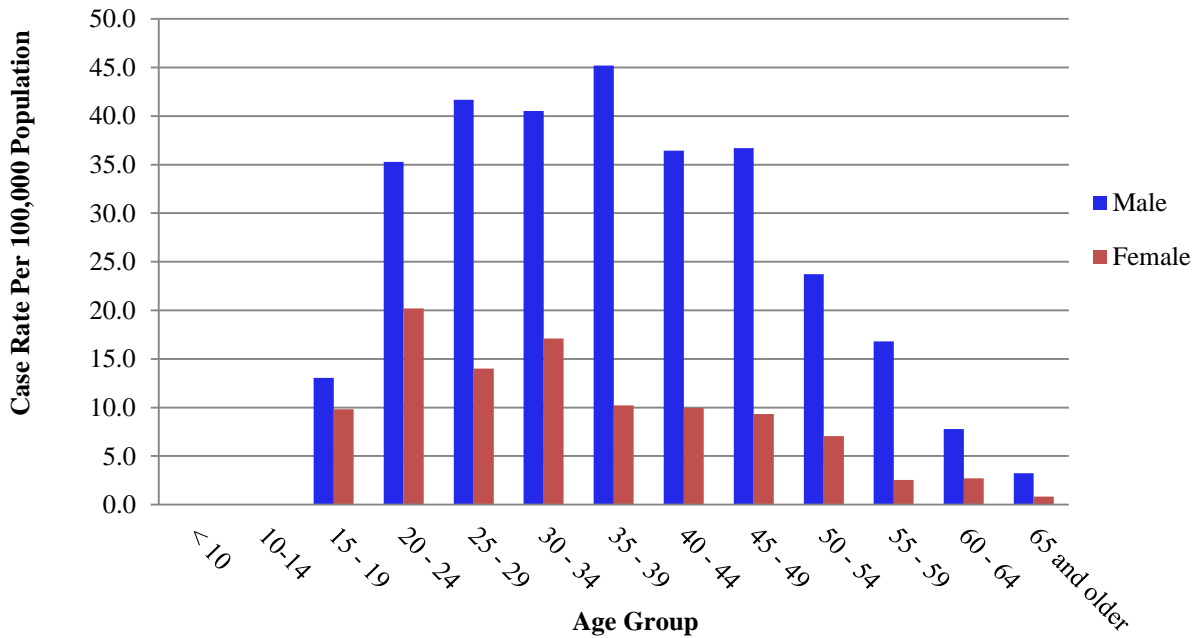


Figure 27. Reported Syphilis Case Rates per 100,000 Population by Gender in 10-19 Year Olds, Arizona, 2001-2010



Arizona Department of Health Services - STD Control Program

Figure 28. Reported Syphilis Case Rates per 100,000 Population by Age Group and Gender, Arizona 2010



Arizona Department of Health - STD Control Program
 Congenital Syphilis Cases are not included here

Table 9: Female Syphilis Case Rates per 100,000 Population by Age and County, Arizona 2010

Age Group	Cochise & Santa		Gila, Graham & La Paz &		Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Arizona	
	Apache	Cruz	Coconino	Greenlee								Mohave
< 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15 - 19	0.0	0.0	0.0	0.0	0.0	7.4	0.0	25.6	*9	0.0	*26	9.8
20 - 24	0.0	*21	0.0	0.0	0.0	24.0	0.0	21.7	*11	*21	*15	20.2
25 - 29	0.0	*19	0.0	0.0	0.0	11.7	*34	21.5	*8	0.0	*33	*14
30 - 34	0.0	0.0	0.0	*43	0.0	16.0	0.0	30.1	*16	0.0	*37	17.1
35 - 39	0.0	0.0	0.0	0.0	*20	8.3	0.0	20.6	25.6	0.0	0.0	10.2
40 - 44	0.0	0.0	0.0	0.0	0.0	8.6	0.0	24.4	0.0	0.0	0.0	*10
45 - 49	0.0	0.0	0.0	*34	0.0	7.6	0.0	24.5	0.0	0.0	0.0	*9
50 - 54	0.0	0.0	*21	0.0	0.0	4.8	0.0	8.6	*9	0.0	*35	*7
55 - 59	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	2.5
60 - 64	0.0	0.0	0.0	0.0	*11	4.0	0.0	0.0	0.0	0.0	0.0	2.7
65 and Older	0.0	0.0	0.0	*11	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.8
Total	0.0	*2	*1	6.2	*2	6.6	*2	11.4	5.0	*1	9.2	6.8

*7 Cases from Unknown Counties (Not shown) are included in the total Arizona Rates

Table 10: Male Syphilis Case Rates per 100,000 Population by Age and County, Arizona 2010

Age Group	Cochise & Santa		Gila, Graham & La Paz &		Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Arizona	
	Apache	Cruz	Coconino	Greenlee								Mohave
< 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15 - 19	*57	0.0	0.0	0.0	0.0	14.0	0.0	16.6	*17	0.0	0.0	*13
20 - 24	0.0	*34	*26	*31	0.0	35.6	*28	51.9	*17	*37	*12	*35
25 - 29	0.0	0.0	0.0	0.0	*19	47.9	0.0	44.7	*13	0.0	74.2	41.7
30 - 34	0.0	0.0	0.0	0.0	*20	48.8	0.0	43.2	*6	0.0	*17	40.5
35 - 39	*50	0.0	0.0	*36	0.0	52.6	0.0	47.7	0.0	*21	*37	45.2
40 - 44	0.0	*20	0.0	0.0	0.0	44.5	0.0	38.4	0.0	0.0	*18	36.4
45 - 49	0.0	0.0	0.0	0.0	0.0	47.0	0.0	28.3	24.1	0.0	*36	36.7
50 - 54	0.0	0.0	0.0	0.0	0.0	32.1	0.0	18.6	0.0	*13	0.0	23.7
55 - 59	0.0	0.0	0.0	*29	0.0	25.2	0.0	*7	*10	0.0	0.0	*17
60 - 64	0.0	0.0	0.0	0.0	0.0	11.2	0.0	*7	0.0	0.0	0.0	*8
65 and Older	0.0	0.0	0.0	0.0	*4	4.4	0.0	4.4	0.0	0.0	0.0	3.2
Total	8.4	3.4	*3	5.9	2.7	25.0	*2	21.0	5.6	3.9	12.2	20.3

* 29 Cases from Unknown Counties (Not shown) are included in the total Arizona Rates

Congenital Syphilis Cases not included in the tables

Table 11. Female Syphilis Cases by Age and County, Arizona, 2010

Age Group	Cochise & Santa		Gila, Graham & La Paz &			Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Unknown	Arizona
	Apache	Cruz	Coconino	Greenlee	Mohave								
< 10	*	*	*	*	*	*	*	*	*	*	*	*	*
10 - 14	*	*	*	*	*	*	*	*	*	*	*	*	*
15 - 19	*	*	*	*	*	10	*	9	*	*	*	*	22
20 - 24	*	*	*	*	*	31	*	8	*	*	*	*	43
25 - 29	*	*	*	*	*	16	*	7	*	*	*	*	30
30 - 34	*	*	*	*	*	21	*	9	*	*	*	*	35
35 - 39	*	*	*	*	*	11	*	6	*	*	*	*	21
40 - 44	*	*	*	*	*	11	*	7	*	*	*	*	20
45 - 49	*	*	*	*	*	10	*	8	*	*	*	*	20
50 - 54	*	*	*	*	*	6	*	*	*	*	*	*	15
55 - 59	*	*	*	*	*	*	*	*	*	*	*	*	*
60 - 64	*	*	*	*	*	*	*	*	*	*	*	*	*
65 and Older	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	*	*	*	*	*	128	*	57	9	*	9	7	220

Table 12. Male Syphilis Cases by Age and County, Arizona, 2010

Age Group	Cochise & Santa		Gila, Graham & La Paz &			Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Unknown	Arizona
	Apache	Cruz	Coconino	Greenlee	Mohave								
< 10	*	*	*	*	*	*	*	*	*	*	*	*	*
10 - 14	*	*	*	*	*	*	*	*	*	*	*	*	*
15 - 19	*	*	*	*	*	20	*	6	*	*	*	*	31
20 - 24	*	*	*	*	*	49	*	20	*	*	*	*	81
25 - 29	*	*	*	*	*	67	*	15	*	*	*	*	94
30 - 34	*	*	*	*	*	65	*	13	*	*	*	*	86
35 - 39	*	*	*	*	*	70	*	14	*	*	*	6	95
40 - 44	*	*	*	*	*	58	*	11	*	*	*	*	75
45 - 49	*	*	*	*	*	61	*	9	*	*	*	*	78
50 - 54	*	*	*	*	*	38	*	6	*	*	*	*	48
55 - 59	*	*	*	*	*	25	*	*	*	*	*	*	30
60 - 64	*	*	*	*	*	10	*	*	*	*	*	*	13
65 and Older	*	*	*	*	*	9	*	*	*	*	*	*	13
Total	*	*	*	*	*	472	*	101	11	*	12	29	644

Unknown gender and transgender cases not included in the tables
 Congenital Syphilis Cases not included in the tables

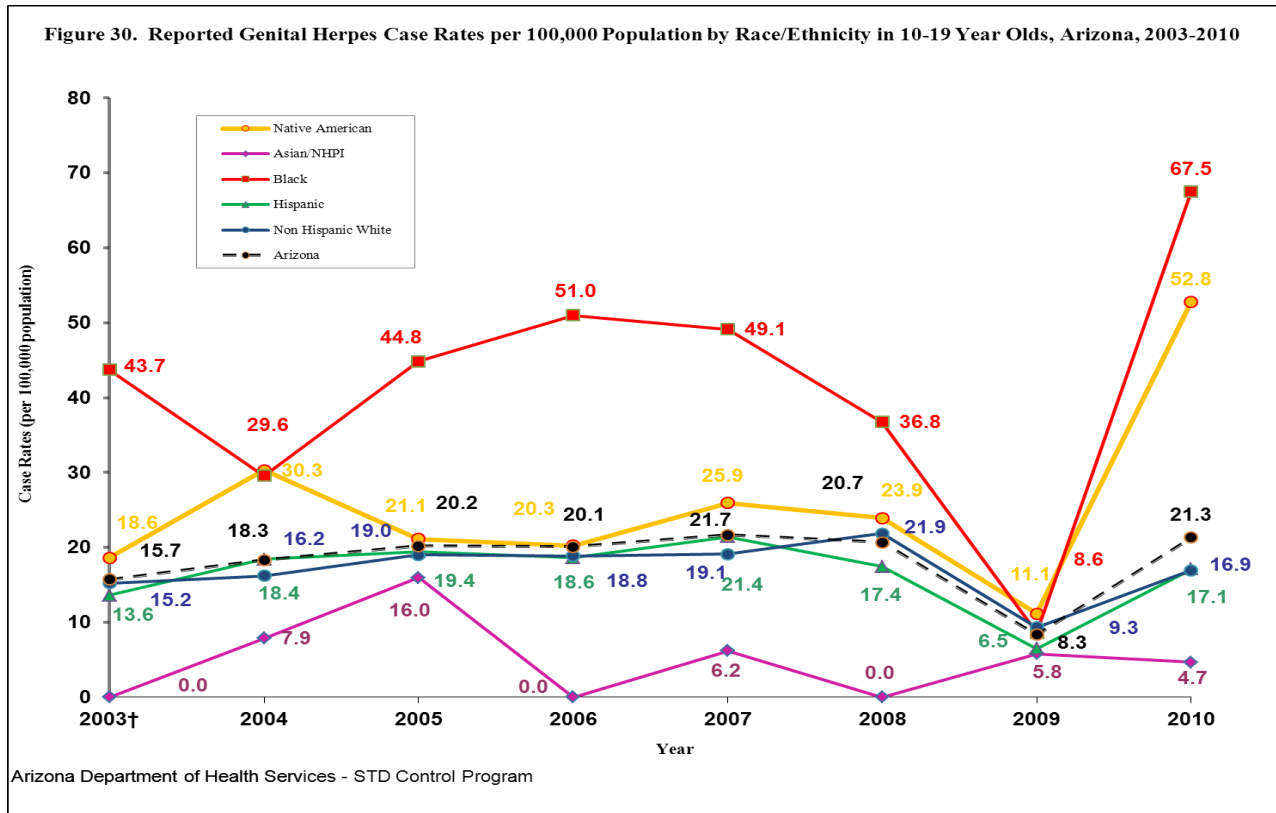
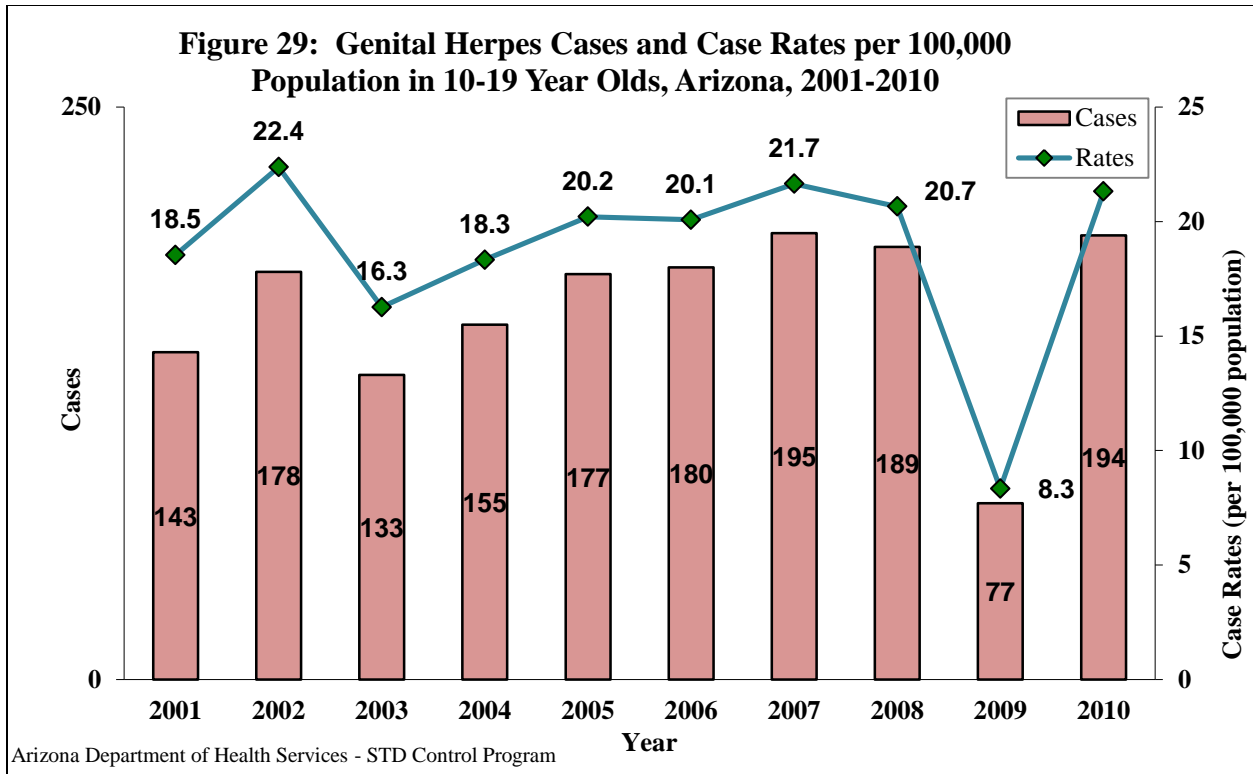


Figure 31. Reported Genital Herpes Case Rates per 100,000 Population by County in 10-19 Year Olds, Arizona 2010

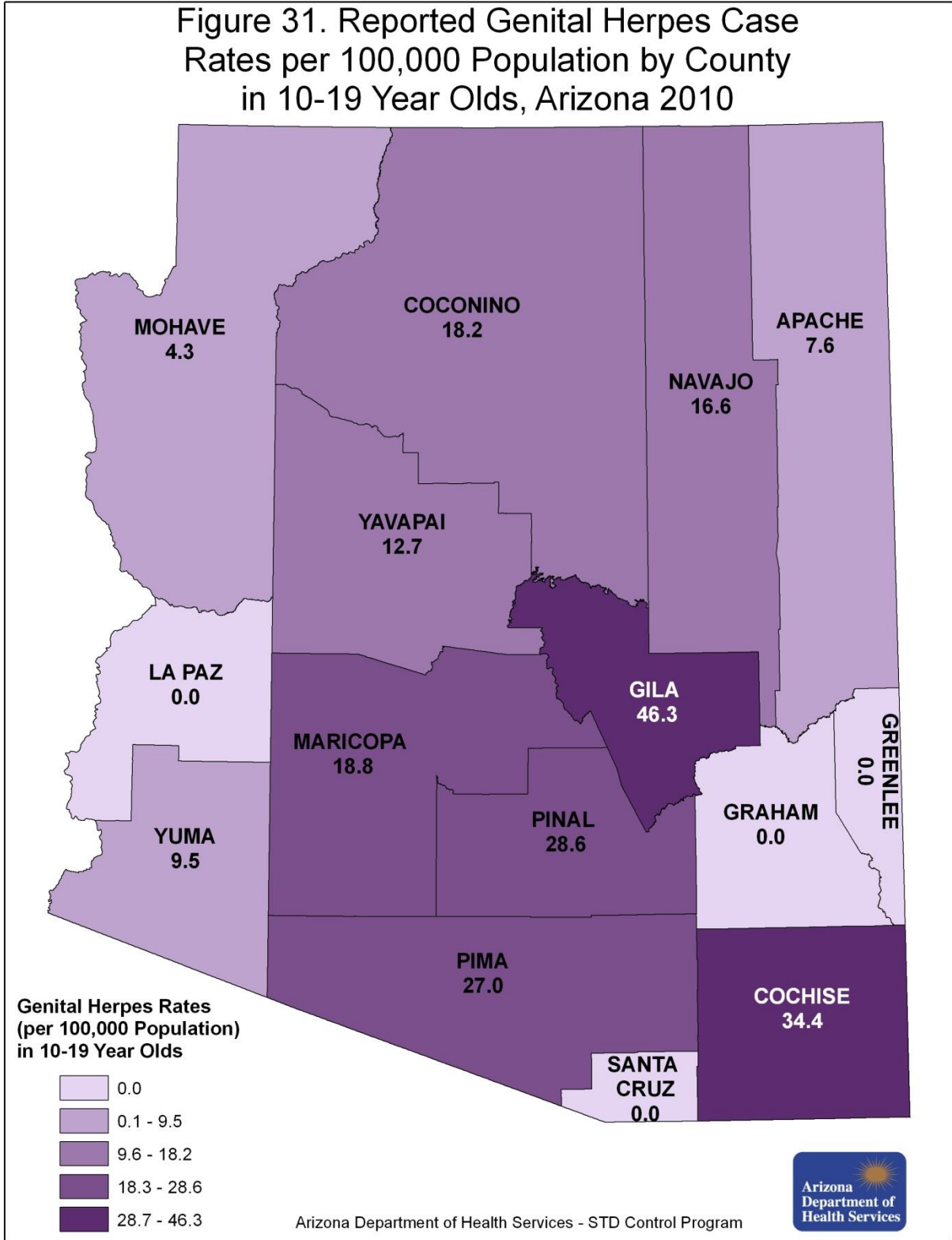
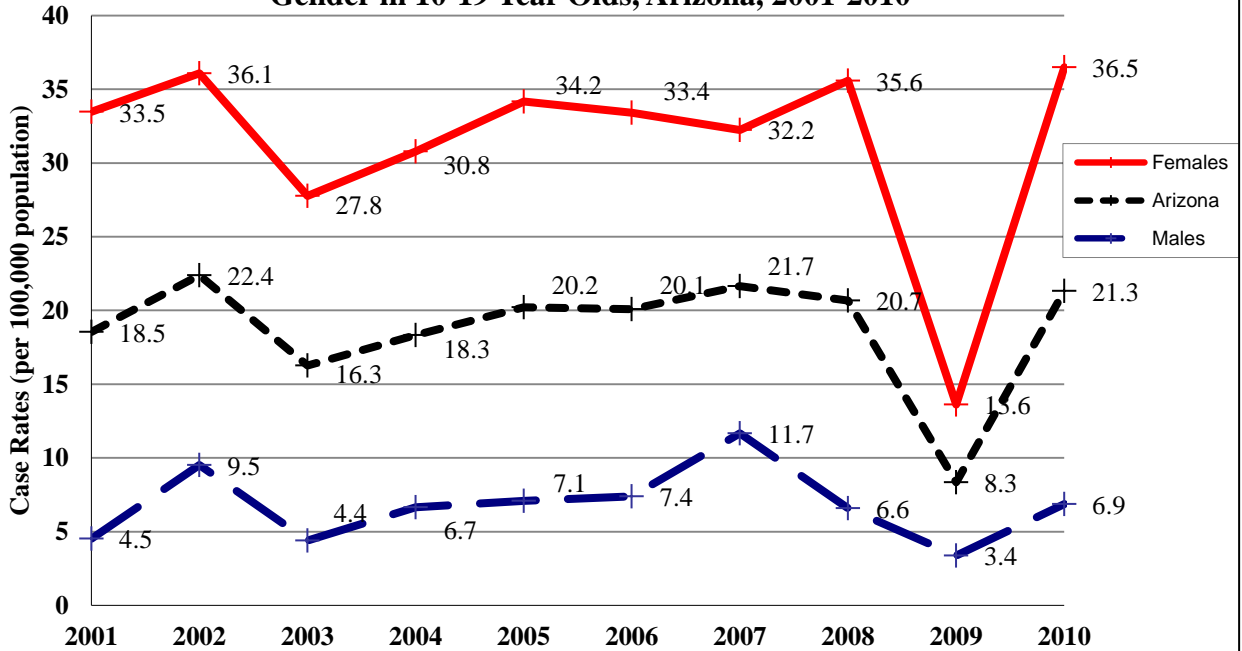
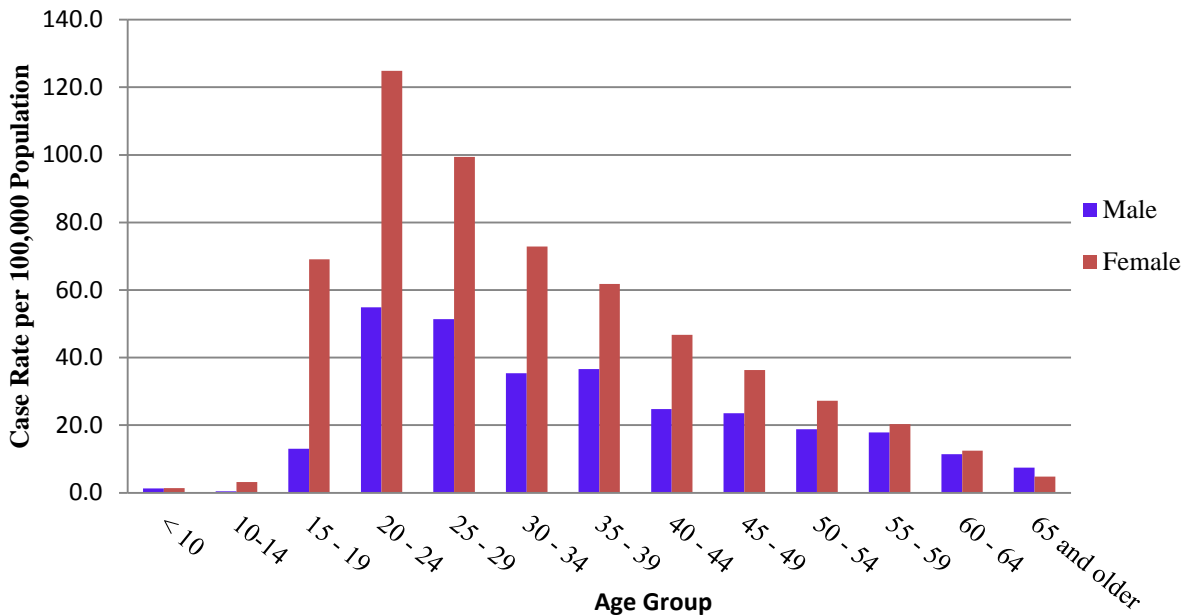


Figure 32. Reported Genital Herpes Case Rates per 100,000 Population by Gender in 10-19 Year Olds, Arizona, 2001-2010



Arizona Department of Health Services - STD Control Program

Figure 33. Reported Herpes Case Rates per 100,000 Population by Age Group and Gender, Arizona 2010



Arizona Department of Health Services - STD Control Program

Table 13. Female Genital Herpes Case Rates per 100,000 Population by Age and County, Arizona 2010

Age Group	Cochise & Santa			Gila, Graham & La Paz &			Navajo	Pima	Pinal	Yavapai	Yuma	Arizona
	Apache	Cruz	Coconino	Greenlee	Mohave	Maricopa						
< 10	0.0	0.0	0.0	0.0	0.0	0.0	*12	0.0	0.0	0.0	0.0	1.3
10 - 14	0.0	0.0	0.0	0.0	0.0	2.9	0.0	*3	0.0	*18	0.0	*3
15 - 19	*31	95.2	57.1	*58	*16	58.1	67.7	88.2	112.0	*18	38.3	69.1
20 - 24	0.0	123.1	*25	*35	142.2	136.1	0.0	92.3	131.8	*42	75.0	124.9
25 - 29	0.0	*38	171.0	*41	123.5	89.9	*69	104.3	106.2	0.0	179.5	99.4
30 - 34	*54	*20	74.4	0.0	85.0	77.0	*36	60.2	62.1	*22	91.9	72.9
35 - 39	*52	80.5	78.5	*87	79.5	59.5	*36	27.4	119.4	0.0	*34	61.8
40 - 44	0.0	0.0	0.0	0.0	51.9	44.4	*34	31.4	137.8	0.0	84.9	46.8
45 - 49	0.0	0.0	*45	0.0	53.9	37.9	82.0	9.2	78.3	*14	*34	36.4
50 - 54	0.0	46.0	*21	0.0	*12	30.6	0.0	17.2	*19	0.0	*35	27.2
55 - 59	0.0	*16	*23	0.0	35.0	16.5	*29	11.9	46.5	0.0	78.8	20.3
60 - 64	0.0	0.0	0.0	0.0	0.0	11.0	*31	13.0	*17	*10	*20	12.5
65 and Older	*22	0.0	*16	0.0	*4	2.3	*27	4.8	*4	*4	*13	4.8
Total	11.2	25.8	36.9	12.4	30.9	38.4	29.8	31.3	51.0	7.4	43.0	38.5

*93 Cases from Unknown Counties (Not shown) are included in the total Arizona Rates

Table 14. Male Genital Herpes Case Rates per 100,000 Population by Age and County, Arizona 2010

Age Group	Cochise & Santa			Gila, Graham & La Paz &			Navajo	Pima	Pinal	Yavapai	Yuma	Arizona
	Apache	Cruz	Coconino	Greenlee	Mohave	Maricopa						
< 10	0.0	0.0	0.0	0.0	0.0	*0	*11	0.0	0.0	0.0	0.0	1.3
10 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0
15 - 19	0.0	0.0	0.0	*27	0.0	15.4	0.0	11.1	*17	*16	0.0	*13
20 - 24	0.0	*17	0.0	0.0	0.0	58.2	0.0	54.5	91.2	0.0	62.2	54.9
25 - 29	0.0	*33	*19	0.0	0.0	46.4	*31	68.5	58.6	0.0	44.5	51.4
30 - 34	0.0	*20	0.0	0.0	*20	37.5	*66	33.2	36.9	0.0	*34	35.3
35 - 39	0.0	0.0	0.0	*36	77.7	38.3	0.0	27.3	51.7	0.0	*18	36.6
40 - 44	0.0	*39	0.0	0.0	0.0	27.6	0.0	10.5	30.8	0.0	*18	24.8
45 - 49	0.0	0.0	*24	0.0	*28	24.7	0.0	22.0	*8	0.0	*18	23.5
50 - 54	0.0	0.0	*22	0.0	*12	22.0	*58	0.0	27.3	*13	0.0	18.8
55 - 59	*49	0.0	0.0	0.0	*13	24.2	0.0	*7	*10	0.0	0.0	17.9
60 - 64	0.0	0.0	0.0	0.0	0.0	15.6	0.0	*7	0.0	0.0	0.0	11.4
65 and Older	0.0	0.0	0.0	0.0	*4	8.8	*15	*1	*8	*4	*7	7.5
Total	*3	6.7	4.5	*4	9.0	22.2	13.0	16.8	23.8	2.9	14.3	20.5

*59 Cases from Unknown Counties (Not shown) are included in the total Arizona Rates

Table 15. Female Genital Herpes Cases by Age and County, Arizona, 2010

Age Group	Cochise & Santa Cruz		Gila, Graham & La Paz & Mohave			Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Unknown	Arizona
	Apache	Cruz	Coconino	Greenlee	Mohave								
<10	*	*	*	*	*	*	*	*	*	*	*	*	6
10 - 14	*	*	*	*	*	*	*	*	*	*	*	*	7
15 - 19	*	6	*	*	*	78	*	31	12	*	*	13	155
20 - 24	*	6	*	*	7	176	*	34	12	*	*	21	266
25 - 29	*	*	8	*	6	123	*	34	13	*	11	13	213
30 - 34	*	*	*	*	*	101	*	18	8	*	*	6	149
35 - 39	*	*	*	*	*	79	*	8	14	*	*	9	127
40 - 44	*	*	*	*	*	57	*	9	14	*	*	*	94
45 - 49	*	*	*	*	*	50	*	*	8	*	*	*	78
50 - 54	*	*	*	*	*	38	*	6	*	*	*	*	58
55 - 59	*	*	*	*	*	18	*	*	*	*	*	*	40
60 - 64	*	*	*	*	*	11	*	*	*	*	*	*	23
65 and Older	*	*	*	*	*	6	*	*	*	*	*	*	23
Total	*	23	25	6	34	741	16	156	91	8	42	93	1,239

Table 16. Male Genital Herpes Cases by Age and County, Arizona, 2010

Age Group	Cochise & Santa Cruz		Gila, Graham & La Paz & Mohave			Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Unknown	Arizona
	Apache	Cruz	Coconino	Greenlee	Mohave								
<10	*	*	*	*	*	*	*	*	*	*	*	*	6
10 - 14	*	*	*	*	*	*	*	*	*	*	*	*	*
15 - 19	*	*	*	*	*	22	*	*	*	*	*	*	31
20 - 24	*	*	*	*	*	80	*	21	11	*	*	8	126
25 - 29	*	*	*	*	*	65	*	23	9	*	*	12	116
30 - 34	*	*	*	*	*	50	*	10	6	*	*	*	75
35 - 39	*	*	*	*	*	51	*	8	8	*	*	*	77
40 - 44	*	*	*	*	*	36	*	*	*	*	*	*	51
45 - 49	*	*	*	*	*	32	*	7	*	*	*	6	50
50 - 54	*	*	*	*	*	26	*	*	*	*	*	*	38
55 - 59	*	*	*	*	*	24	*	*	*	*	*	*	32
60 - 64	*	*	*	*	*	14	*	*	*	*	*	*	19
65 and Older	*	*	*	*	*	18	*	*	*	*	*	*	30
Total	*	6	*	*	10	419	7	81	47	*	14	59	652

Unknown gender and transgender cases not included in the tables