

# Indian Health Surveillance Report

## Sexually Transmitted Diseases 2009



**U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES**

Centers for Disease Control and Prevention  
Indian Health Service

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### **Additional Data and Ordering Information**

Additional AI/AN health status information can be obtained from the IHS Division of Program Statistics ([http://www.ihs.gov/NonMedicalPrograms/IHS\\_Stats/](http://www.ihs.gov/NonMedicalPrograms/IHS_Stats/)) or from the IHS Division of Epidemiology and Disease Prevention (<http://www.ihs.gov/MedicalPrograms/Epi/>).

Additional STD data can be obtained from the CDC Division of STD Prevention (<http://www.cdc.gov/std/stats>).

For free hard copies of this report, please send your name, job title, mailing address, phone number, and e-mail address to [IHSStatsHelp@ihs.gov](mailto:IHSStatsHelp@ihs.gov).

The online version of this report is available at <http://cdc.gov/std/stats>.

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U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

Centers for Disease Control and Prevention

Indian Health Service

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# Preface

Indian Health Surveillance Report – Sexually Transmitted Diseases 2009 presents statistics and trends for sexually transmitted diseases (STDs) among American Indians and Alaska Natives (AI/AN) in the United States (U.S.). The initial Indian Health Service Surveillance Report – Sexually Transmitted Diseases, containing data through 2004, was published in November 2006.

This report represents a unique collaboration and partnership between the Centers for Disease Control and Prevention (CDC) and the Indian Health Service (IHS). Most of the AI/AN-specific data provided in this report are the result of a novel surveillance methodology, whereby existing nationally notifiable STD data reported to CDC were analyzed using standard IHS populations and methods.

The Indian Health Surveillance Report–Sexually Transmitted Diseases 2009 consists of two main parts: the National STD Profile (1984-2009) contains text and figures that provide an overview of STD morbidity among AI/AN in the U.S.; the IHS Area STD Profiles (1998-2009) present STD rates and trends for the 12 IHS administrative areas.

The surveillance methodology used in this report has served as a model and framework for analyzing AI/AN specific data for other nationally notifiable diseases (e.g. hepatitis, tuberculosis) and for other priority health conditions (e.g. cancer, diabetes, mental health). Such reports are essential for increasing the accessibility and quality of AI/AN health data and play an important role in monitoring disease trends, identifying at-risk populations, and guiding interventions and resources.

Any comments and suggestions that might improve the usefulness of future publications are welcomed and can be sent to the IHS Division of Program Statistics at [IHSStatsHelp@ihs.gov](mailto:IHSStatsHelp@ihs.gov).

## Acknowledgements

Publication of this report would not have been possible without the contributions of the state health departments and STD control programs that provided surveillance data to CDC.

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# Background

## Rationale for this Report

American Indian and Alaska Native (AI/AN) health data published by the Indian Health Service (IHS) primarily focus on population estimates, natality/mortality, health care finance, and patient care utilization.<sup>1,2</sup> AI/AN data specific to STDs and other nationally notifiable diseases are limited. Yet, these diseases represent a significant burden on the IHS health care system and on AI/AN people as a whole.

In 2009, among all races and ethnicities, AI/AN had the second highest rates of chlamydia and gonorrhea and the third highest rates of primary and secondary syphilis (P&S).<sup>3</sup> Improved awareness of these health disparities, through the publication and dissemination of an AI/AN specific STD surveillance report, may lead to increased funding, resources, and research activities in AI/AN communities. In September 2004, collaboration between the Centers for Disease Control and Prevention (CDC) and IHS was initiated to develop such a report;<sup>4</sup> a report using 2007 data was published in 2009.<sup>5</sup> This current report is an update of these earlier reports and adds data through 2009.

## IHS Organization

IHS, a federal agency within the U.S. Department of Health and Human Services (HHS), is responsible for providing health services to AI/AN people. The mission of IHS, in partnership with AI/AN people, is to raise their physical, mental, social, and spiritual health to the highest level.

IHS is comprised of 12 regional administrative units called Area Offices or IHS Areas. These IHS Areas include all or parts of 35 states. Within each IHS Area, health care facilities may be operated directly by IHS or may be operated by individual tribes (directly or through several forms of contracted services). Based on 2009 IHS service population estimates, the largest IHS Area is the Oklahoma City Area, which is home to 37 tribes and a population of 366,686; the smallest IHS Area is the Tucson Area, which is home to 2 tribes and a population of 36,525.<sup>6</sup>

## CDC Organization

CDC is also an agency within HHS. The primary mission of CDC is to promote health and quality of life and to prevent and control disease, injury, and disability. CDC is comprised of 15 major organizational units, which are largely managed through 5 overarching offices: the Office of Infectious Diseases; the Office of Noncommunicable Diseases, Injury and Environmental Health; the Office of Public Health Preparedness and Response; the Office for State, Tribal, Local and Territorial Support; and the Office of Surveillance, Epidemiology, and Laboratory Services. The Division of STD Prevention is housed at the National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention, a center within the Office of Infectious Diseases.

# Data Source and Limitations

Nationally notifiable disease data, including data for STDs, are submitted to CDC from state health departments (and other local reporting jurisdictions) and are stored at the Public Health Surveillance Program Office (PHSPO). In 2009, there were over 60 nationally notifiable infectious diseases and conditions.<sup>7</sup> Surveillance data for notifiable STDs are electronically sent from PHSPO to the Division of STD Prevention (DSTDP), where they are combined with historical hard copy data (also sent from state and local jurisdictions) to create the national STD Surveillance System (STDSS).

## Numerators: Incident STD Cases Reported to CDC

All of the STD data in this report are based on cases of nationally notifiable STDs reported to CDC from the STD control programs and health departments in the 50 states, the District of Columbia (DC), and selected U.S. cities. In aggregate, the STD cases reported from all of these jurisdictions are used when calculating U.S. rates. STD data from U.S. dependencies and territories (e.g., Guam, Puerto Rico, Virgin Islands) are not included in the U.S. rates or for all other rates used in this report.

AI/AN rates (as shown in the National STD Profile section) are based on STD cases which occurred among persons identified as AI/AN residing in all jurisdictions. In contrast, IHS rates (as shown in the IHS Area STD Profiles) are based on a subset of all AI/AN STD cases. The IHS rates include only STD cases which occurred among AI/AN residing in counties where IHS provides services or resources (see the IHS Denominators section on page 9 for further details); these STD cases may or may not have been diagnosed in IHS, tribal, or urban Indian healthcare facilities. These definitions of AI/AN rates and IHS rates are used consistently throughout this publication.

## STD Data Sources and Reporting Formats

In the past, STD data were submitted by state STD prevention programs to CDC on a variety of hard copy summary reporting forms (monthly, quarterly and annually). As of December 31, 2003, all 50 states and DC had converted from summary hard copy reporting to electronic submission of line-listed (i.e., case-specific) STD data via the National Electronic Telecommunications

System for Surveillance (NETSS). Data reported through NETSS comprise the notifiable disease information that is published in the Morbidity and Mortality Weekly Report (MMWR).

The data presented in the **National STD Profile** are from STDSS and are based on a combination of aggregated final NETSS electronic data and summary hard copy reporting forms. Monthly hard copy reporting forms include summary data for syphilis by county and state. Quarterly hard copy reporting forms include summary data for gonorrhea, chlamydia, syphilis, and other STDs by sex and source of report (STD clinic or non-STD clinic) for the 50 states and outlying areas of the U.S. Annual hardcopy reporting forms include summary data for chlamydia, gonorrhea, and primary and secondary syphilis (P&S) by age, race, and sex for the 50 states, DC, and 6 large city project areas.

The IHS specific data presented in the **IHS Area STD Profiles** come only from NETSS and do not include data from hard copy reporting forms. IHS Area data presented in this report require STD datasets which contain both race and county variables in order to determine which cases are AI/AN and to assign cases to the appropriate IHS Area (based on the patient's county of residence). These variables are generally available only with NETSS line-listed data. Data contained in the IHS Area STD Profiles are restricted to years when STD cases submitted to NETSS were relatively complete for most states and reporting jurisdictions (i.e., 1998-present).

2009 case reports and corrections sent to CDC through June 9, 2010, have been included in this report. Data and corrections received after this date will appear in subsequent issues and updates.

## Adjustments to CDC STD Data

In order to improve the quality of certain national and IHS Area analyses, several adjustments were made to the data prior to calculating rates. These procedures removed or redistributed cases and populations when one or more of the following conditions were present:

- If a state had >50% of its cases with unknown race/ethnicity, both the cases and populations were removed from the case and population

databases prior to performing analyses involving race/ethnicity.

- If a state had  $\leq 50\%$  of its cases with unknown race/ethnicity, the cases with unknown race/ethnicity were redistributed to known race/ethnicity categories, based on the percentage of cases in each known category. This adjustment was made after cases had been summed over the geographic unit of the analysis (e.g., national, state, county, IHS Area).
- If a state did not report cases electronically to NETSS, by race and ethnicity, the populations of those states were removed from the population database in those years. This adjustment was made only for IHS and IHS Area analyses.

For U.S. cases and rates shown in this report, adjustments were made depending on the type of analysis in order to maintain consistency between data presented in this report and data presented in the CDC STD Surveillance Summaries.<sup>3</sup> Unadjusted U.S. case counts and rates are presented for STD totals and for analyses by sex; adjusted U.S. cases counts and rates are presented for analyses of sex and age.

### Population Denominators and Rate Calculations

Crude incidence rates (new cases/population) were calculated on an annual basis per 100,000 population. In this report, the 2009 rates for the U.S., IHS, and individual IHS Areas were calculated by dividing the number of cases reported from each area in 2009 by corresponding 2008 population estimates. For subsequent reports, the 2009 rates will be updated using 2009 population figures. For all other years, rates were calculated by dividing annual cases by the appropriate population estimate (e.g. 2001 cases divided by 2001 population). Specifics on population denominators used in this report are detailed below.

### U.S. Denominators

For years 2000-2009, rates were calculated using the Census 2000 bridged-Race file developed by the Census Bureau and the National Center for Health Statistics (NCHS). Census 2000 was the first census to allow for racial identification as either a single race or in combination with other races; consequently, the Census 2000 data on race are not directly comparable with data from the 1990 census or earlier censuses. To address this inconsistency, NCHS and the Census Bureau

developed the Census 2000 bridged-race file,<sup>8</sup> which bridges the 31 race categories specified in the 1997 Office of Management and Budget (OMB) standards (used in Census 2000) with the 4 race categories specified under 1977 OMB standards (used in the 1980 and 1990 censuses).<sup>9</sup>

For years 1990-1999, population counts were also updated to incorporate the bridged-race estimates based on the Census 2000 counts.<sup>6</sup> These files were prepared by the Census Bureau with support from the National Cancer Institute.

U.S. rates for 1984-1989 were calculated using Census Bureau population estimates for corresponding years.<sup>10</sup>

### AI/AN Denominators (National STD Profile)

National AI/AN rates, like U.S. rates, were calculated using national-level census population estimates. For 1984-1989, rates were calculated using AI/AN-specific Census Bureau population estimates.<sup>10</sup> For 1990-2009, rates were calculated based on estimates of identified AI/AN in the Census 2000 bridged-race file.<sup>8</sup>

### IHS Denominators (IHS Area STD Profiles)

Population denominators used to calculate IHS rates are based on estimates of AI/AN identified to be eligible for IHS services (i.e. the **IHS eligible population**).

IHS eligible population estimates are unique to this publication and are based on official county estimates from the Census 2000 bridged-race file. The Census Bureau enumerates those individuals who self-identify as being AI/AN. The IHS eligible population is estimated by counting those AI/AN (as self-identified during the Census) who reside in specified counties in which IHS provides services or resources (“on or near” reservations)—within IHS, these counties are commonly referred to as contract health service delivery areas (CHSDAs) or service counties. In 2009, there were 625 service counties in 35 states; the current listing of service counties can be obtained by contacting IHS

# Data Source and Limitations

Division of Program Statistics (DPS) at IHSStatsHelp@ihs.gov or accessing the Federal Register of June 21, 2008.<sup>11</sup> Based on current service counties, the estimated overall 2009 IHS eligible population is 1.86 million persons, comprising 75% of all AI/AN residing in the U.S. These people may or may not access IHS services.

IHS eligible population estimates are similar, but not identical, to IHS service population estimates, which are official IHS population counts referenced in IHS publications<sup>1,2</sup> and used by IHS when calculating AI/AN natality/mortality rates and other health statistics. In contrast to IHS eligible population estimates, IHS service population estimates are further adjusted using an intercensal smoothing process based on the most current 10 years of AI/AN natality and mortality data. This adjustment results in small differences between the IHS eligible and IHS service population estimates. (Appendix A) Overall, in 2009, IHS eligible population estimates were 2.5% lower than IHS service population estimates (1,862,500 vs. 1,909,550 respectively). For individual IHS Areas, IHS eligible population estimates (when compared to IHS service population estimates) ranged between 11.8% lower in the Alaska Area and 12.9% higher in the Phoenix Area.

Populations and population rankings shown in the individual Area IHS profiles are based on the official IHS service population. A population rank of 1 has the largest population; a rank of 12 has the smallest. Rates in the Area IHS profile graphs and tables use IHS eligible populations in order to compute rates by sex and age for each area.

## Healthy People 2010 Objectives

In January 2000, CDC released Healthy People 2010 (HP 2010), a set of health objectives for the U.S. to achieve over the first decade of the new century.<sup>12</sup> The year 2010 targets for the diseases addressed in this report are: gonorrhea—19 cases per 100,000 population, and primary and secondary syphilis—0.2 case per 100,000 population.

## Data Limitations and Clarifications

### AI/AN and Hispanic Ethnicity

IHS-specific races shown in the IHS Area Profiles section of this report are based on case reports and population estimates for all individuals identified as AI/AN, including AI/AN Hispanics and AI/AN non-Hispanics. This methodology is consistent with current practices at IHS DPS.

In contrast, AI/AN STD rates shown in the National STD Profile and as published in the annual CDC STD Surveillance Summaries include case reports and population estimates only for AI/AN non-Hispanics; STD cases which occurred among AI/AN Hispanics are included in the Hispanic rates.

Differences in how AI/AN Hispanics are categorized in the National Profile vs. IHS Area Profiles result from differences in how primary data were collected in the STDSS and NETSS databases.

### Misreporting of AI/AN Race

Previous studies have documented misreporting of AI/AN race on death certificates and in state STD surveillance databases,<sup>13, 14</sup> resulting in underestimates when characterizing the burden of disease among AI/AN people. Misreporting of AI/AN race occurs particularly in areas distant from traditional AI/AN reservations.<sup>13</sup> AI/AN and IHS rates presented in this report have not been adjusted for racial misreporting.

### IHS Areas Containing Partial Service Counties

Five of the IHS Areas (Albuquerque, California, Navajo, Phoenix, and Tucson) contain service counties which are shared between IHS Areas or are partially contained within an IHS Area. For these 17 partial service counties, <sup>Appendix B</sup> IHS DPS developed “percentage splits” (based on the 1990 census), which determine what proportion of the county’s AI/AN population lies within the jurisdiction of a given IHS Area. These percentage splits, which are based

on geographic boundaries, tribal population counts and health care utilization data, are updated periodically.

For chlamydia and gonorrhea rates presented in this report, case counts and IHS populations for partial service counties were determined using percentage splits. This is the same methodology that IHS DPS currently uses when calculating natality and mortality rates involving partial service counties.

Because primary and secondary syphilis (P&S) rates are significantly lower than chlamydia and gonorrhea rates, attributing cases which occurred in partial service counties based on percentage splits could lead to substantial differences in rates as described in this report compared to actual disease rates. For the P&S cases which occurred in partial service counties during 1998-2009, we adjusted rates by reviewing case data with state STD database managers to determine which IHS Area the case should be assigned to, based on the patient's community of residence. Adjusted P&S case counts and rates are shown for the 5 affected IHS Areas (Albuquerque, California, Navajo, Phoenix, and Tucson).

### **Urban Indians and Non-Federally Recognized Tribes**

STD data specific to urban Indians and members of non-federally recognized tribes are not included in this report. Methodologies to describe STD rates in these populations must still be developed. Such data may be included in future issues and updates.

### **Reporting Practices**

Although most areas generally adhere to the case definition for STDs found in Case Definitions for Infectious Conditions under Public Health Surveillance,<sup>15</sup> there may be differences in the policies and systems for collecting surveillance data. Thus, comparisons of case numbers and rates between areas should be interpreted with caution. However, since case definitions and surveillance activities within a given area remain relatively stable, trends should be minimally affected by these differences. In many areas, the reporting from publicly supported institutions (e.g. STD clinics and IHS, tribal, or urban Indian health organizations) has been more complete than from other sources (e.g. private practitioners). Thus, trends may not be representative of all segments of the population.

### **Reporting of Chlamydia Cases**

Trends in chlamydia case reporting from many states and areas are more reflective of changes in testing, diagnosis, and reporting of cases, rather than actual trends in disease incidence. Because of this limitation, the CDC primarily monitors chlamydia trends not by rates (number of positive cases/population), but by positivity or estimated prevalence (number of positive cases/number tested).<sup>16</sup> In areas where chlamydia positivity data are limited or not available, it is important to publish data on chlamydia rates (as provided in this report) in order to emphasize the large numbers of chlamydia cases being detected. Chlamydia positivity data by IHS Area are not included in this report.

### **Interpretation of Case Rates when Case Counts are Small**

STD case rates for many analyses presented in this report are based on small case counts (e.g.  $\leq 20$  cases); such rates and trends should be interpreted with caution. Small case counts occur in analyses by sex and age as well as P&S analyses, and analyses involving IHS Areas with small populations (e.g. Tucson and Billings). Case counts corresponding to all rates shown in this report are provided in the tables section.

### **What is New in This Report**

- The 2009 report is expanded to include cases and rates from 2008-2009.
- The algorithm to redistribute cases with unknown race was modified to reduce the impact of rounding. This may have resulted in small changes in the estimated IHS Area cases and rates in some years.
- Counties in each IHS region were modified to be consistent with the CHSDA counties reported in the June 21, 2008 Federal Registry.<sup>11</sup> Changes included adding Tarrant County, NM to Albuquerque IHS area; Grand Parish and LaSalle Parish LA to the Nashville IHS area; Utah County, UT to the Phoenix IHS area; and San Juan County, WA to the Portland IHS area. Counties deleted were Hudspeth County, TX from the Albuquerque IHS area; Pierce County, WI from the Bemidji IHS area and Santa Cruz County, AZ from the Tucson IHS area.



# Summary of Data

# Summary of Data

Sexually transmitted diseases (STDs) remain a major public health challenge in the U.S. While substantial progress has been made in preventing, diagnosing, and treating certain STDs in recent years, CDC estimates that 19 million new infections occurred in 2009, almost half of them among young people ages 15 to 24.<sup>17</sup> In addition to the physical and psychological consequences of STDs, these diseases also exact a tremendous economic toll. Direct medical costs associated with STDs in the U.S. are estimated at \$15.9 billion annually.<sup>18</sup>

This report summarizes 2009 national data and trends for chlamydia, gonorrhea, and primary and secondary syphilis (P&S) among American Indians and Alaska Natives (AI/AN). AI/ANs are one of the smallest racial groups in the U.S., comprising between 0.9%-1.5% of the total U.S. population<sup>19</sup>—but are disproportionately affected by STDs. In 2009, reported rates of chlamydia, gonorrhea, and P&S among AI/AN were 1.2 to 4.3 times higher than comparable rates for whites.<sup>3</sup>

## Chlamydia

Across all race/ethnicities, chlamydia remains the most commonly reported infectious disease in the U.S. In 2009, 19,618 chlamydia diagnoses were reported among AI/AN, down slightly from 19,917 cases in 2008.<sup>3,20</sup> The national AI/AN rate of reported chlamydia in 2009 was 776.5 cases per 100,000 population, a decrease of 1.5% from 2008 (788.3 cases per 100,000 population).<sup>3,20</sup> The 2009 chlamydia rate among AI/AN was 1.9 times higher than the U.S. rate (409.2 cases per 100,000 population).<sup>3</sup>

## Large Disparity Between IHS and U.S. Rates

Among AI/AN residing in IHS service areas, the overall IHS chlamydia rate in 2009 was 816.2 cases per 100,000 population, which was 2.0 times higher than the corresponding U.S. rate (409.2 cases per 100,000 population); 10 IHS Areas (all but California and Nashville) had chlamydia rates up to 5.7 times higher than the U.S. rate. For all populations, increases in chlamydia rates over the past 20 years largely reflect the expansion of screening activities, increasingly sensitive diagnostic tests, an increased emphasis on case reporting, and improvements in reporting system. However, many women who are at risk are still not being tested.<sup>3</sup> Still, several IHS Areas had decreasing chlamydia rates between 2008 and 2009: Bemidji (-2.0%), Billings (-4.2%), California (-13.9%), Navajo (-4.5%), Oklahoma City (-3.5%), Phoenix (-6.1%) and Tucson (-5.0%).

## Young Women Especially Affected

Compared to men, chlamydia rates are higher among women and reflect the fact that women are more likely to be screened for this infection. Chlamydia rates are highest among women age 15-24. In 2009, the overall IHS rate among women ages 15-24 years was 4,701.2 cases per 100,000 population, which was 1.5 times higher than the corresponding U.S. rate (3,231.4 cases per 100,000 population). For individual IHS Areas, chlamydia rates among women 15-24 years ranged between 1,072.4 cases per 100,000 population in the California Area to 12,752.5 cases per 100,000 population in the Alaska Area.



## Gonorrhea

Gonorrhea is the second most commonly reported infectious disease in the U.S. In 2009, 2,917 gonorrhea diagnoses were reported among AI/AN, up from 2,764 cases in 2008.<sup>3,20</sup> The national rate of reported gonorrhea in 2009 among AI/AN was 113.3 cases per 100,000 population, an increase of 5.5% from 2008 (107.4 cases per 100,000 population).<sup>3,20</sup> The 2009 gonorrhea rate among AI/AN was higher than the U.S. rate (99.1 cases per 100,000 population).<sup>3</sup>

### Overall 2009 IHS Rate Lower than U.S. Rate

In 2009, the overall IHS gonorrhea rate of 111.6 cases per 100,000 population was higher than the U.S. gonorrhea rate of 99.1 cases per 100,000 population. Gonorrhea rates for the overall IHS population increased from 96.3 to 111.6 cases per 100,000 population between 1998 and 2009, with a peak of 120.5 in 2006.

### High Gonorrhea Rates in 4 IHS Areas

Reported gonorrhea rates in 2009 for 4 IHS Areas—Aberdeen, Alaska, Bemidji, and Oklahoma City—were 1.3 to 6.0 times higher than the U.S. rate. The Alaska Area had the highest gonorrhea rate (593.4 cases per 100,000 population). For the overall IHS population in 2009, gonorrhea rates were higher—almost double—for women (147.0 cases per 100,000 population) compared to men (75.1 cases per 100,000 population).

## Primary and Secondary Syphilis (P&S)

The rate of P&S in the U.S. decreased throughout the 1990s, and in 2000 reached an all-time low. However, over the past 6 years both the U.S. and AI/AN syphilis rates have been increasing. Between 2008 and 2009, the AI/AN P&S rate increased slightly, from 2.3 to 2.4 cases per 100,000 population; comparatively, the U.S. P&S rate increased from 4.4 to 4.6 cases per 100,000 population. In 2009, 61 P&S diagnoses were reported among AI/AN, up from 58, in 2008.<sup>3,20</sup>

### IHS Cases Primarily Occurring in the Southwest

In 2009, 38 of 41 P&S cases (93%) diagnosed within the IHS service area occurred in 5 IHS Areas in the Southwest—Albuquerque, Navajo, Oklahoma City, Phoenix, and Tucson; 5 IHS Areas had no P&S cases in 2009. IHS cases of P&S in the Southwest have been increasing since 2000, with peaks in 2004 (56 cases) and 2007 (54 cases). During 2008-2009, the greatest P&S rate increase occurred in the Albuquerque Area (from 0.9 to 6.2 cases per 100,000 population), followed by Phoenix Area (from 3.4 to 3.9 cases per 100,000). Three areas had notable decreases in P&S rates: Tucson (from 14.9 to 12.4 cases per 100,000 population, Navajo (from 5.3 to 4.8 cases per 100,000 population), and Oklahoma City (from 2.4 to 1.8 cases per 100,000 population).

### IHS Cases Evenly Distributed Between Men and Women

For overall IHS cases in 2009, the P&S male-to-female rate ratio was 3:1, which indicates a disproportionate number of P&S cases occurring among AI/AN men compared to AI/AN women. This is a large increase since the 2007 surveillance report was published, when the ratio was 1:1.<sup>5</sup> The U.S. P&S male-to-female rate ratio in 2009 was 6:1. These disparities reflect recent syphilis outbreaks in the U.S. which have primarily occurred among urban men who have sex with men (MSM). The ratios vary between IHS areas, with some affected areas having proportionately more men infected (e.g., Phoenix (8:1), Navajo (2:1), Albuquerque (3:1), Oklahoma City (4:1); however, in Tucson the female-to-male ratio is slightly higher (1.4:1).



# National STD Profile

Chlamydia

Gonorrhea

Primary and Secondary Syphilis

# Chlamydia

Chlamydia is the most common nationally notifiable disease in the U.S. and disproportionately affects young women.<sup>3</sup> Chlamydia infections are asymptomatic in most women and, if untreated, can result in serious complications, including pelvic inflammatory disease (PID), infertility, and ectopic pregnancy.<sup>21, 22</sup> A pregnant woman infected with chlamydia can transmit infection to her child during delivery, potentially leading to neonatal pneumonia. In addition, chlamydia infections have been shown to facilitate the transmission of HIV.<sup>23</sup> Despite these complications, chlamydia is easily treated and cured with antibiotics.

In 2000, for the first time, regulations in all 50 states and DC required the reporting of chlamydia cases. Trends in chlamydia case reporting from many states and areas are more reflective of changes in testing, diagnosis, and reporting of cases, rather than actual trends in disease incidence. Because of this limitation, the CDC primarily monitors chlamydia trends not by rates (number of positive cases/population), but by positivity or estimated prevalence (number of positive cases/number tested). Only chlamydia rates are shown in this report.

In 2009, 1,244,180 chlamydia infections were reported in the U.S. This case count corresponds to a rate of 409.2 cases per 100,000 population, a 2.8% increase from 2008 (398.1 cases per 100,000 population).<sup>3,20</sup>

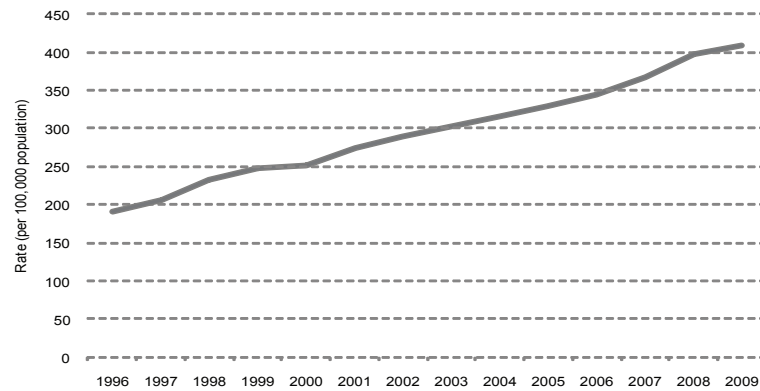
## Key Points and Trends

- In 2009, among all race/ethnicities, AI/AN had the second highest chlamydia rate (776.5 cases per 100,000 population), which was 4.3 times higher than the rate for whites (178.8 cases per 100,000 population). African-Americans had the highest chlamydia rate (1,559.1 cases per 100,000 population).<sup>3</sup>
- In 2009, 19,618 of 1,244,180 chlamydia infections (1.6%) were reported among AI/AN. The AI/AN chlamydia rate decreased by 1.5% during 2008-2009 (2008 rate: 788.3 cases per 100,000 population).<sup>3, 20</sup>
- In 2009, the chlamydia rate among AI/AN women in the U.S. (1,214.9 cases per 100,000 females) was nearly 4 times higher than the rate among AI/AN men (323.8 cases per 100,000 males), likely reflecting a greater number of women screened for this infection.<sup>3,20</sup> This rate ratio was slightly higher than the rate ratio by sex in the total U.S. (592.2 cases per 100,000 females and 219.3 cases per 100,000 males; female to male rate ratio of 2.7).<sup>3,20</sup>
- Among AI/AN women, the highest age-specific rates of reported chlamydia in 2009 were among 20- to 24-year-olds (5,104.4 per 100,000 females) and 15- to 19-year-olds (4,619.3 per 100,000 females).<sup>3,19</sup> These two age groups also represented the highest age specific rates among all women in the U.S. (15-19 years: 3,329.3 per 100,000 females and 20-24 years: 3,273.9 per 100,000 females).<sup>3,20</sup>
- Age-specific rates among AI/AN men, while substantially lower than the rates in AI/AN women in 2009, were highest among 20 to 24-year-olds (1,367.0 cases per 100,000 males).<sup>3,19</sup> This age group also had the highest rates among all men in the U.S. (1,120.6 cases per 100,000 males).<sup>3,20</sup>

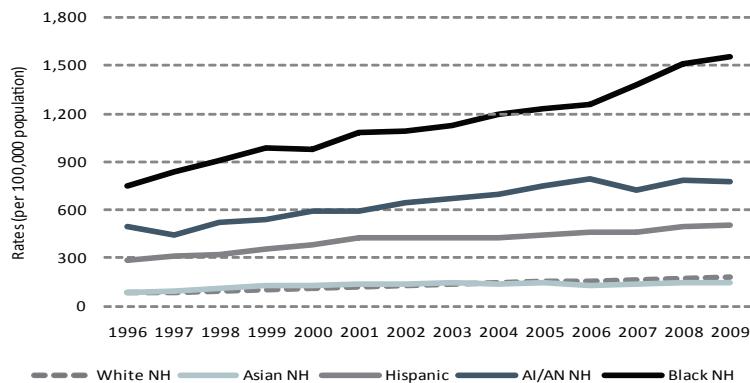
## United States

Reference: Tables 1A, 1B, 2A, 2B

### Total Chlamydia Rates, U.S.



### Chlamydia Rates by Race and Ethnicity



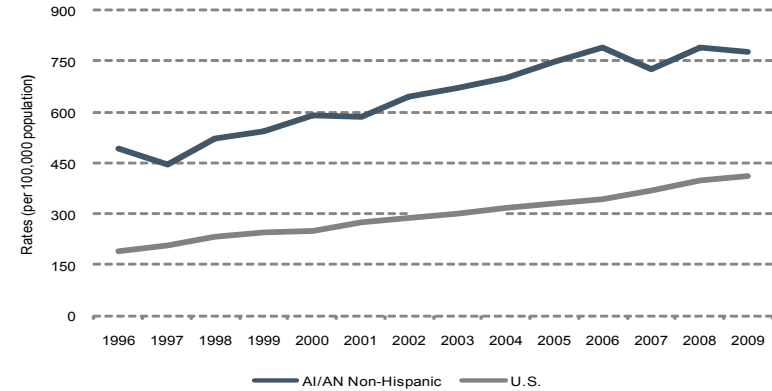
#### About these graphs:

- AI/AN rates (and rates for other race/ ethnicities) based on national populations
- AI/AN rates based on AI/AN non-Hispanics only; AI/AN Hispanics included in Hispanic rates
- Exclusions: States with >50% cases with unknown race/ethnicity excluded for given years
- Adjustments: States with <50% cases with unknown race/ethnicity have cases redistributed
- Data source: STDSS

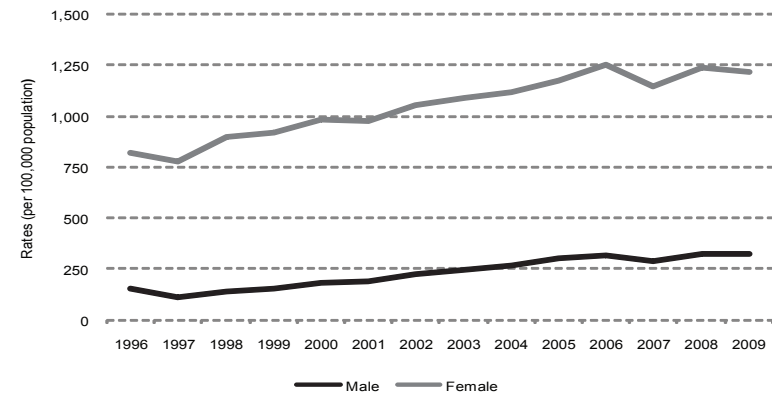
## American Indians / Alaska Natives

Reference: Tables 2A, 2B, 3A, 3B

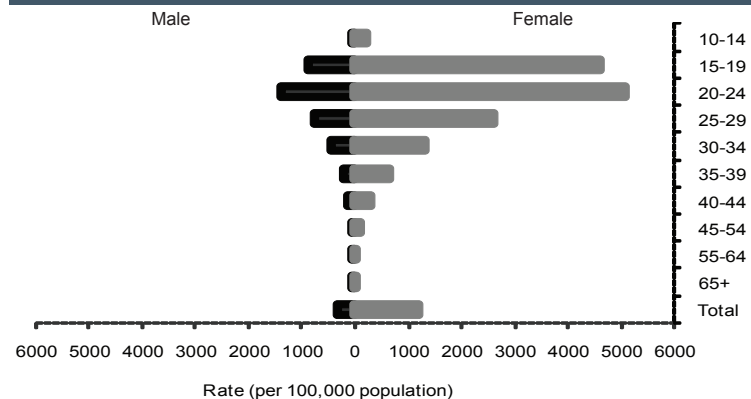
### Total Chlamydia Rates, AI/AN Non-Hispanic and U.S.



### Chlamydia Rates by Sex, AI/AN Non-Hispanic



### Chlamydia Rates by Sex and Age, AI/AN Non-Hispanic, 2009



# Gonorrhea

Gonorrhea is the second most common nationally notifiable disease in the U.S.<sup>3</sup> and, like chlamydia, is a major cause of PID, infertility, and ectopic pregnancy. Gonococcal infections may be transmitted from a pregnant woman to her child during delivery (potentially causing ophthalmic disease),<sup>21</sup> and have also been shown to facilitate the transmission of HIV.<sup>23</sup> Gonorrhea is curable with antibiotics, though resistance to certain classes of antibiotics is an emerging problem.<sup>3</sup>

From 1975 through 2004, gonorrhea declined 74% following implementation of the national gonorrhea control program in the mid-1970s.<sup>21</sup> During 1997-2006, the rate ranged between 112.4 and 129.3 cases per 100,000 population. During 2006-2009, national gonorrhea rates declined from 119 cases per 100,000 population to 99.1 cases.

In 2009, 301,174 cases of gonorrhea were reported in the U.S. These cases correspond to a rate of 99.1 cases per 100,000 population, a 10.5% decrease from 2008 (110.7 cases per 100,000 population).<sup>3,20</sup>

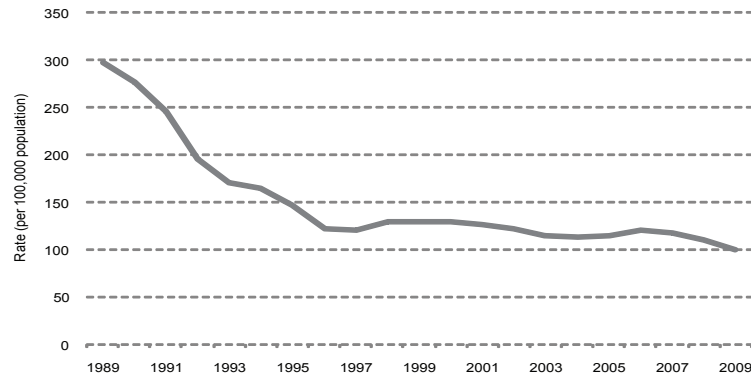
## Key Points and Trends

- In 2009, among all race/ethnicities, AI/AN had the second highest gonorrhea rate (113.3 cases per 100,000 population), which was 4.2 times higher than the rate for whites (27.2 cases per 100,000 population). African-Americans had the highest gonorrhea rate (556.4 cases per 100,000 population).<sup>3</sup>
- In 2009, 2,917 of 301,174 gonorrhea infections (1.0%) reported to CDC from the 50 states and DC occurred among AI/AN. The AI/AN gonorrhea rate increased by 5.5% during 2008-2009 (2009 rate: 113.3 cases per 100,000 population). The total U.S. gonorrhea rate decreased 10.4% during 2008-2009.<sup>3,20</sup>
- In 2009, the gonorrhea rate among AI/AN women in the U.S. (147.3 cases per 100,000 females) was 1.9 times higher than the rate among AI/AN men (78.2 cases per 100,000 males).<sup>3,20</sup> For the U.S., the gonorrhea rate among women was 105.5 cases per 100,000 females and 91.9 cases per 100,000 males.<sup>3</sup>
- Among AI/AN women, the highest age-specific rates of reported gonorrhea in 2009 were among 20- to 24-year-olds (570.0 per 100,000 females) and 15- to 19-year-olds (494.9 per 100,000 females).<sup>3</sup> These two age groups also represented the highest age-specific rates among all women in the U.S. (15-19 years: 568.8 per 100,000 females and 20-24 years: 555.3 per 100,000 females).<sup>3</sup>
- Age-specific rates among AI/AN men, while substantially lower than the rates in AI/AN women in 2009, were highest among 20- to 24-year-olds (244.4 cases per 100,000 males).<sup>3</sup> This age group also had the highest rates among all men in the U.S. (407.5 cases per 100,000 males).<sup>3</sup>

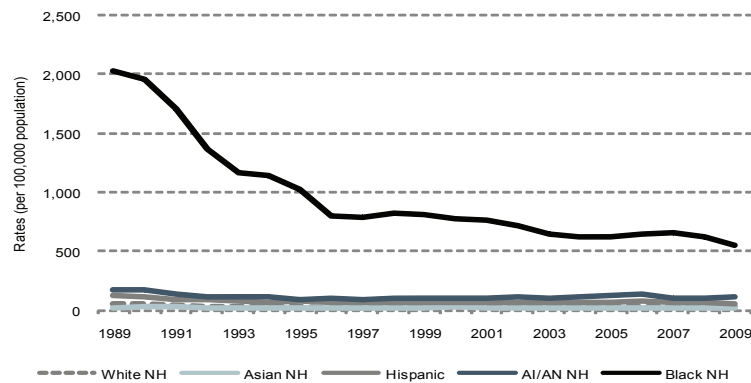
## United States

Reference: Tables 1A, 1B, 4A, 4B

### Total Gonorrhea Rates, U.S.



### Gonorrhea Rates by Race and Ethnicity



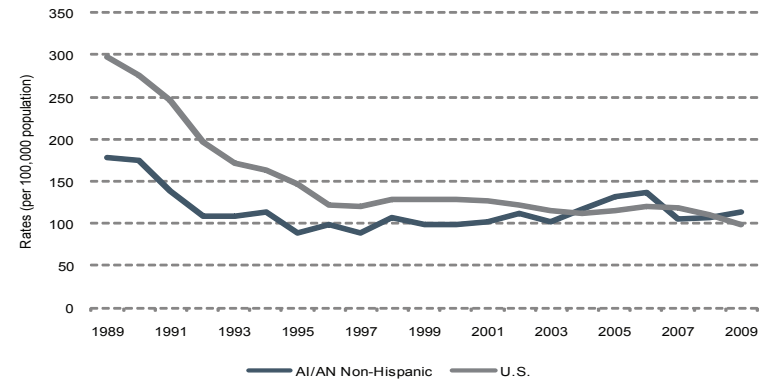
#### About these graphs:

- AI/AN rates (and rates for other race/ ethnicities) based on national populations
- AI/AN rates based on AI/AN non-Hispanics only; AI/AN Hispanics included in Hispanic rates
- Exclusions: States with >50% cases with unknown race/ethnicity excluded for given years
- Adjustments: States with <50% cases with unknown race/ethnicity have cases redistributed
- Data source: STDSS

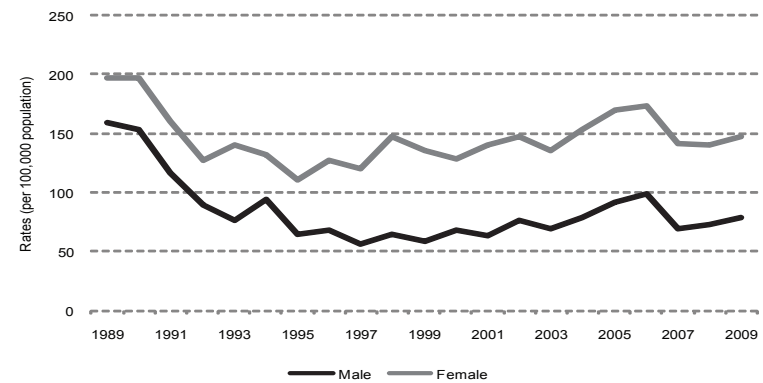
## American Indians / Alaska Natives

Reference: Tables 4A, 4B, 5A, 5B

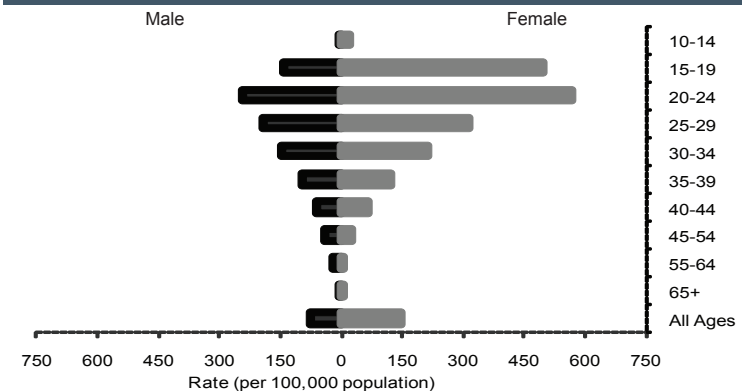
### Total Gonorrhea Rates, AI/AN Non-Hispanic and U.S.



### Gonorrhea Rates by Sex, AI/AN Non-Hispanic



### Gonorrhea Rates by Sex and Age, AI/AN Non-Hispanic, 2009



# Primary and Secondary Syphilis (P&S)

Syphilis, in its primary and secondary stages, is a highly infectious, but easily curable, STD. However, if untreated, it can lead to serious long-term complications, including stroke, heart disease, and death. Syphilis can be transmitted from untreated mothers to their fetuses, potentially leading to stillbirths and congenital deformities.<sup>24</sup> In addition, syphilis has been shown to increase the rate of HIV transmission by two- to five-fold.<sup>23</sup> For these reasons, syphilis prevention and control is a public health priority.

The rate of P&S decreased during the 1990s and reached an all-time low in 2000 (2.1 cases per 100,000 population).<sup>3</sup> The low rate of infectious syphilis and the concentration of the majority of syphilis in a small number of geographic areas in the U.S. led to the development of the CDC's National Plan to Eliminate Syphilis in October 1999.<sup>25</sup> Since 2000, P&S rates in the U.S. have increased, with increases primarily occurring among men who have sex with men (MSM).<sup>3</sup>

In 2009, 13,997 P&S cases were reported in the U.S. This case count corresponds to a rate of 4.6 cases per 100,000 population, an 4.5% increase from 2008 (4.4 cases per 100,000 population).

## Key Points and Trends

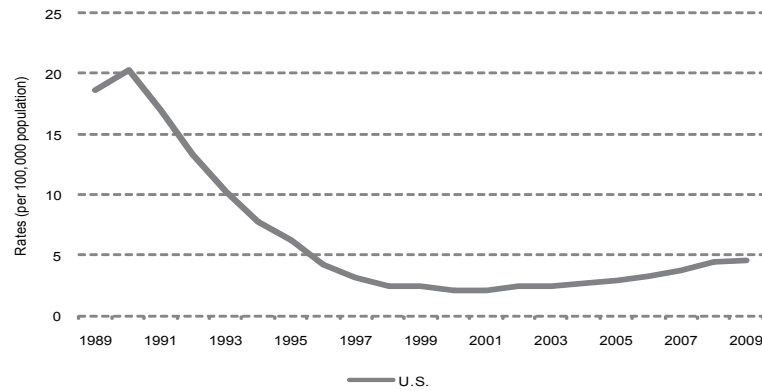
- In 2009, among all race/ethnicities, AI/AN had the third highest P&S rate (2.4 cases per 100,000 population), which was similar to the rate for whites (2.1 cases per 100,000 population). African-Americans (19.2 cases per 100,000) and Hispanics (4.5 cases per 100,000 population) had higher rates than AI/AN.<sup>3</sup>
- In 2009, 61 of 13,997 P&S cases (0.4%) reported to CDC from the 50 states and DC occurred among AI/AN.<sup>3</sup> The AI/AN P&S rate increased slightly to 2.4 cases per 100,000 population during 2008-2009 (2008 rate: 2.3 cases per 100,000 population).<sup>3,20</sup>
- In 2009, the male-to-female P&S rate ratio among AI/AN increase to 4:1, indicating more cases being diagnosed among men than women.<sup>3</sup> Similarly, for the total U.S., the male-to-female P&S rate ratio has risen steadily since 1996 to 6:1 in 2009, reflecting an increase in syphilis among men-who-have-sex-with-men (MSM) during this time.<sup>3</sup>
- In 2009, among AI/AN, the age-specific P&S syphilis rates were highest among women aged 25-29 years (3.1 cases per 100,000 population) and among men aged 35-39 years (11.4 cases per 100,000 population).<sup>3</sup> For the total U.S., the highest age-specific P&S rates were reported among 20-24 year olds for both women and men (5.6 and 20.7 cases per 100,000 population, respectively).<sup>3</sup> In previous years, the highest age group among U.S. men was 35-39 years.



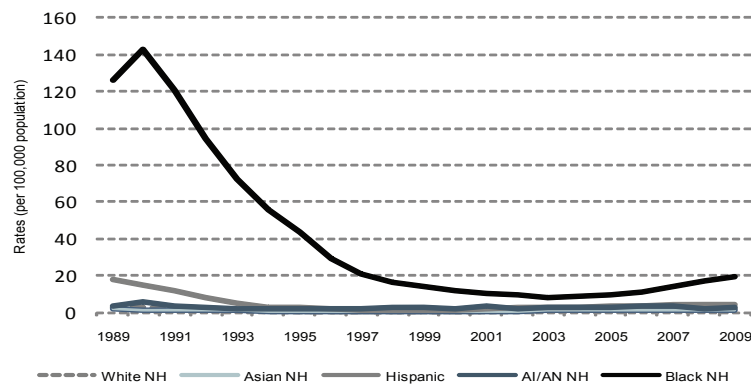
## United States

Reference: Tables 1A, 1B, 6A, 6B

### Total P&S Rates, U.S.



### P&S Rates by Race and Ethnicity



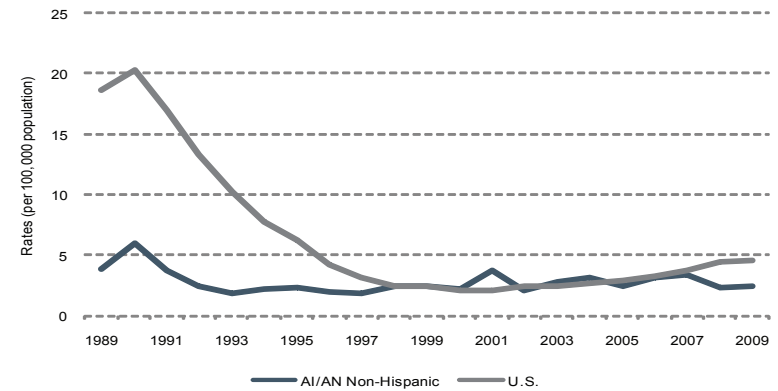
#### About these graphs:

- AI/AN rates (and rates for other race/ ethnicities) based on national populations
- AI/AN rates based on AI/AN non-Hispanics only; AI/AN Hispanics included in Hispanic rates
- Exclusions: States with >50% cases with unknown race/ethnicity excluded for given years
- Adjustments: States with <50% cases with unknown race/ethnicity have cases redistributed
- Data source: STDSS

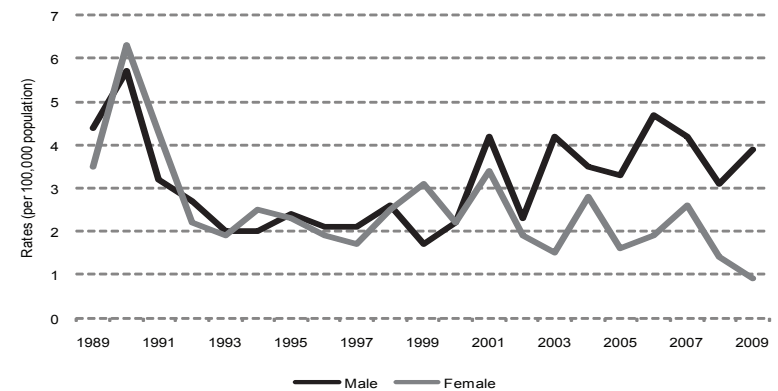
## American Indians / Alaska Natives

Reference: Tables 6A, 6B, 7A, 7B

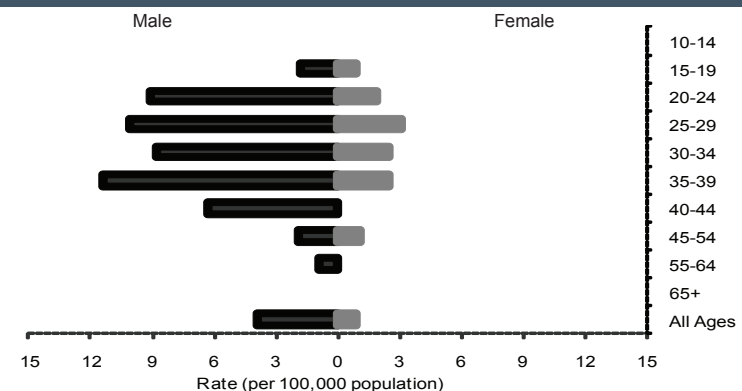
### Total P&S Rates, AI/AN Non-Hispanic and U.S.



### P&S Rates by Sex, AI/AN Non-Hispanic



### P&S Rates by Sex and Age, AI/AN Non-Hispanic, 2009





# **IHS Area STD Profiles**

Aberdeen / Alaska / Albuquerque

Bemidji / Billings / California

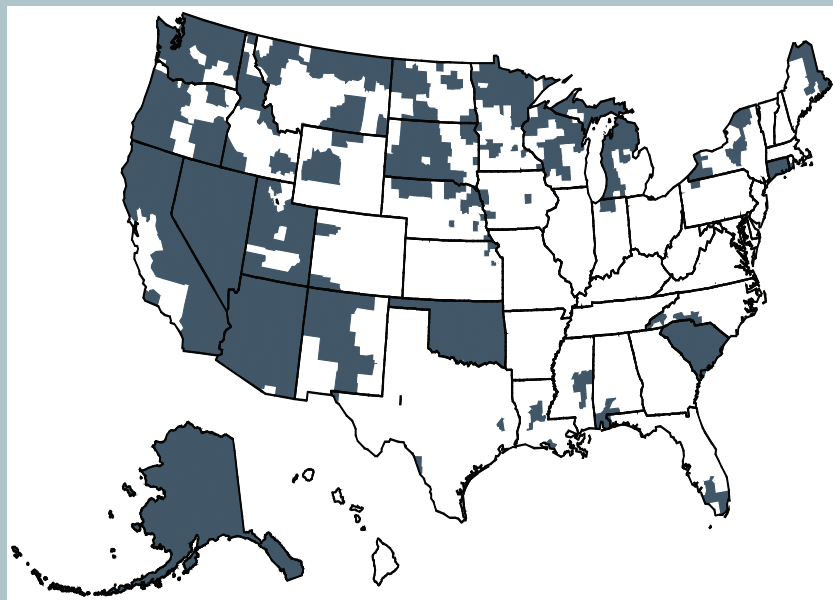
Nashville / Navajo / Oklahoma City

Phoenix / Portland / Tucson

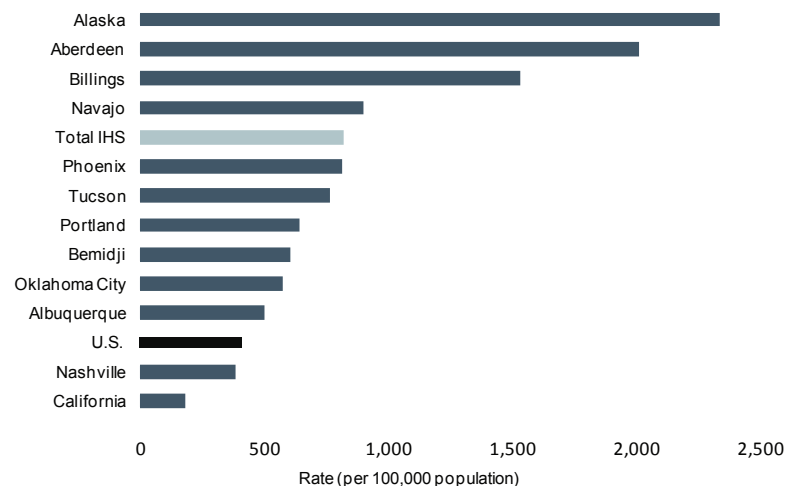
# Indian Health Service

## Chlamydia

Reference: Tables 8A, 8B, 9A, 9B



### Chlamydia Rates by IHS Area, 2009



### Key Points and Trends

- In 2009, the overall IHS chlamydia rate was 2.0 times higher than the U.S. rate (816.2 and 409.2 cases per 100,000 population respectively)
- 10 of the 12 IHS Areas had higher 2009 chlamydia rates compared to the U.S. rate, ranging from 1.2 to 5.7 times higher than the U.S. rate
- In 2009, all IHS Areas had female chlamydia rates that were between 2.5 and 5.5 times higher than male rates, likely reflecting greater numbers of women screened for this infection.
- During 2008-2009 overall chlamydia rates in the U.S. increased 2.8% (from 398.1 to 409.2), while overall IHS chlamydia rates slightly decreased by 0.3%; the IHS area with the greatest increase was Nashville Area (14.0%); the California Area had the largest decrease (-13.9%).

The IHS service area is comprised of 625 service counties in 35 states. The IHS service population is estimated by enumerating AI/AN who live in service counties.

#### Geography:

- States: 35 (AL, AZ, CA, CO, CT, FL, ID, IN, IA, KS, LA, ME, MA, MI, MN, MS, MT, NE, NV, NM, NY, NC, ND, OK, OR, PA, RI, SC, SD, TX, UT, WA, WI, WY)
- Counties: 625
- IHS Areas: 12

Tribes: 562

**2009 IHS Service Population (est.): 1,909,550**

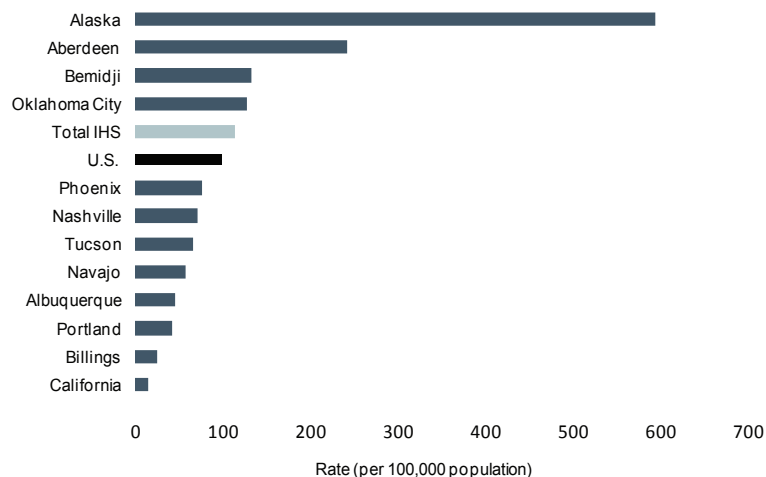
#### Notes for the STD graphs:

- IHS rates based on AI/AN living in service counties
- U.S. rates based on all races and ethnicities
- Exclusions: States with >50% of cases with unknown race excluded
- Adjustments: States with <50% of cases with unknown race have cases redistributed
- Cases from partial IHS Area service counties are redistributed
- IHS data source: NETSS
- U.S. data source: STDSS

## Gonorrhea

Reference: Tables 10A, 10B, 11A, 11B

### Gonorrhea Rates by IHS Area, 2009



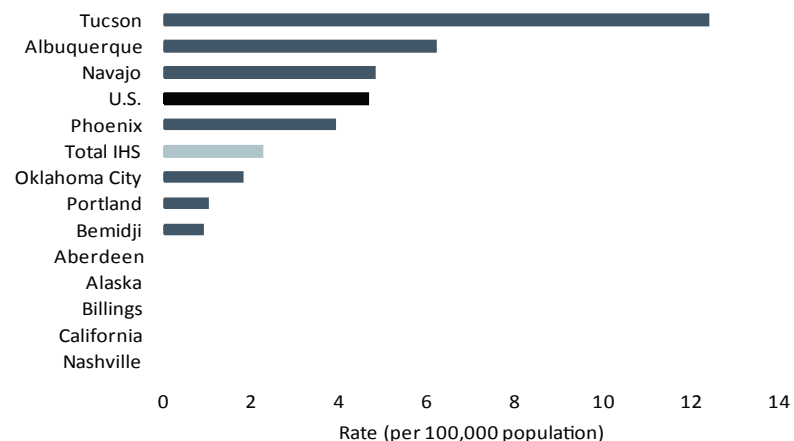
### Key Points and Trends

- In 2009, the overall IHS gonorrhea rate was higher than U.S. rates (111.6 and 99.1 cases per 100,000 population, respectively)
- Four IHS Areas (Aberdeen, Alaska, Bemidji, Oklahoma City) had gonorrhea rates higher than the U.S. rate, ranging from 1.3 to 6 times greater
- In 2009, the overall IHS female gonorrhea rate was 2.0 times the male rate; all but 2 IHS Areas (Billings and Navajo) had higher female gonorrhea rates than male rates
- During 2008-2009, overall gonorrhea rates in the U.S. decreased 10.5% (from 110.7 to 99.1 cases per 100,000 population), while overall IHS rates increased by 11.9%; IHS areas with the greatest increases were Alaska Area (88.9%) and Bemidji Area (11.8%); the IHS Areas with the greatest decreases were California (-56.3%) and Portland (-40.9%)

## Primary and Secondary Syphilis (P&S)

Reference: Tables 12A, 12B, 13A, 13B

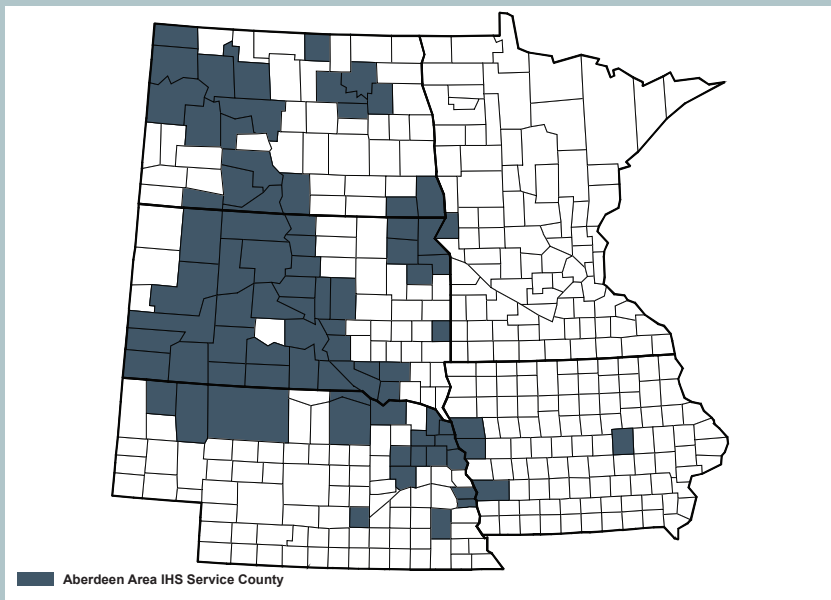
### P&S Rates by IHS Area, 2009



### Key Points and Trends

- In 2009, the overall IHS P&S rate was 2.2 cases per 100,000 population, compared to 4.6 cases per 100,000 population for the overall U.S.
- Within IHS, 38 of 41 (93%) P&S cases occurred in 5 IHS Areas in the southwest: Albuquerque (6 cases), Navajo (11 cases), Oklahoma City (6 cases), Phoenix (10 cases), and Tucson (5 cases); 5 IHS Areas had no P&S cases in 2009
- In 2009, the male-to-female P&S rate ratio among AI/AN was 3:1, indicating more cases being diagnosed among men than women. The U.S. male-to-female ratio was 6:1.
- During 2008-2009, overall P&S rates in the U.S. increased from 4.4 to 4.6 cases per 100,000 population; overall IHS rates increased from 2.1 to 2.2 cases per 100,000. The largest increase occurred in the Albuquerque Area (from 0.9 to 6.2 cases per 100,000); the Oklahoma City and Tucson Areas had the largest decreases (-25% and -17% cases per 100,000 population, respectively)

# Aberdeen Area IHS



## Geography:

- States: 5 (IA, MN, ND, NE, SD)
- Counties: IA (4/99) MN (1/87) ND (20/53) NE (19/93) SD (37/66)

Tribes: 18

## IHS Service Population:

- 2009 (est.): 120,359
- Rank: 9 of 12 Areas

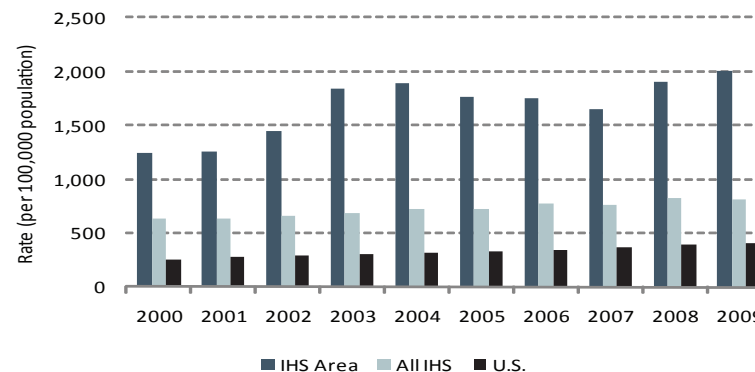
## Notes for the STD graphs:

- IHS rates based on AI/AN living in service counties
- U.S. rates based on all races and ethnicities
- Exclusions: None
- Adjustments: Cases with unknown race are redistributed
- IHS data source: NETSS
- U.S. data source: STDSS

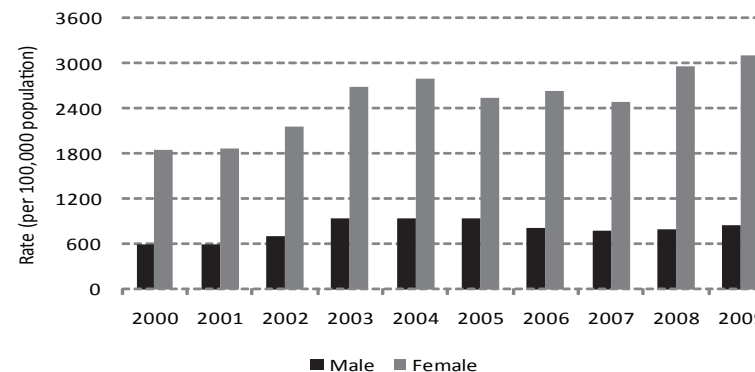
## Chlamydia

Reference: Tables 8A, 8B, 9A, 9B

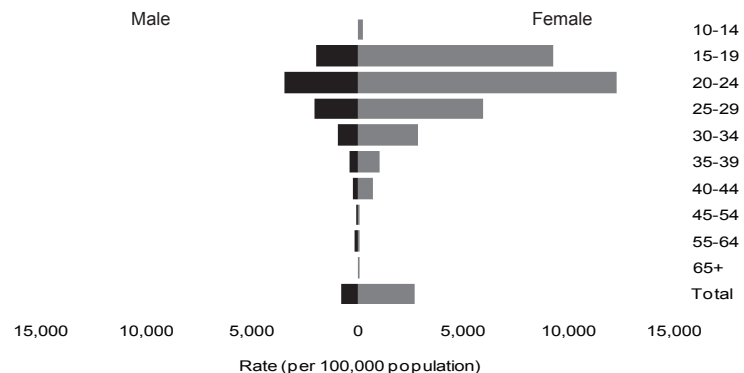
### Total Chlamydia Rates



### Chlamydia Rates by Sex, Aberdeen Area IHS



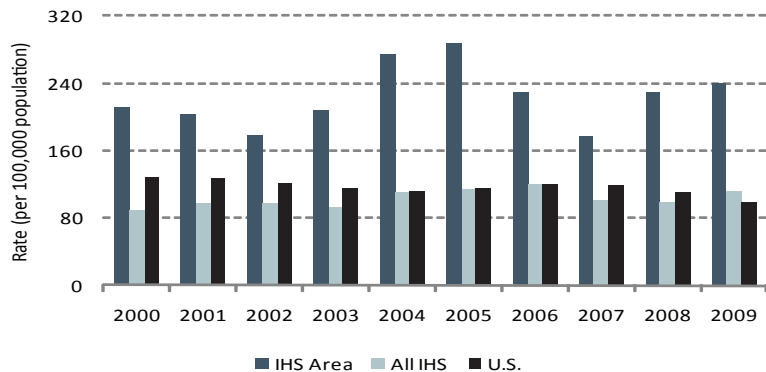
### Chlamydia Rates by Sex and Age, Aberdeen Area IHS, 2009



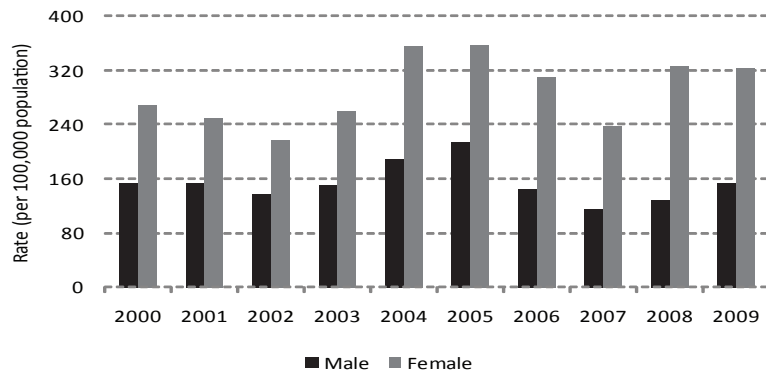
## Gonorrhea

Reference: Tables 10A, 10B, 11A, 11B

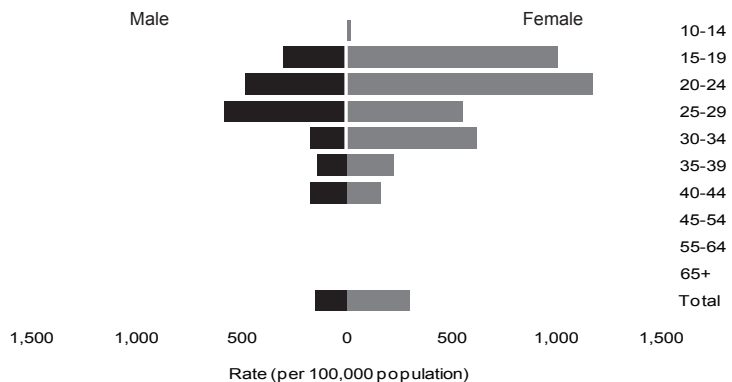
### Total Gonorrhea Rates



### Gonorrhea Rates by Sex, Aberdeen Area IHS



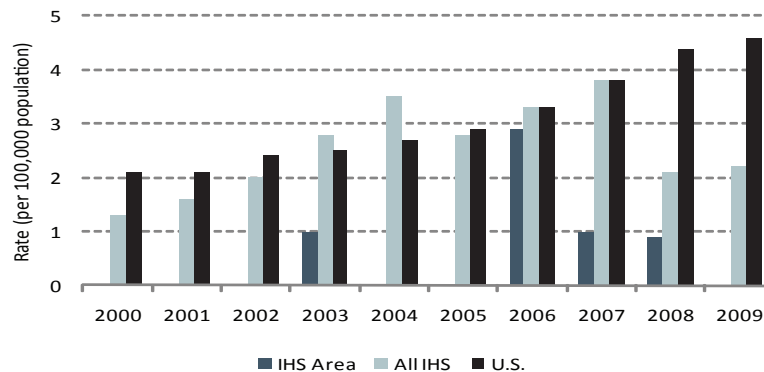
### Gonorrhea Rates by Sex and Age, Aberdeen Area IHS, 2009



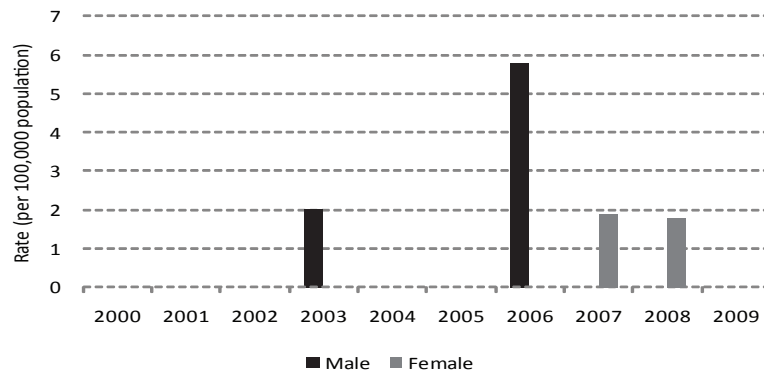
## Primary and Secondary Syphilis (P&S)

Reference: Tables 12A, 12B, 13A, 13B

### Total P&S Rates



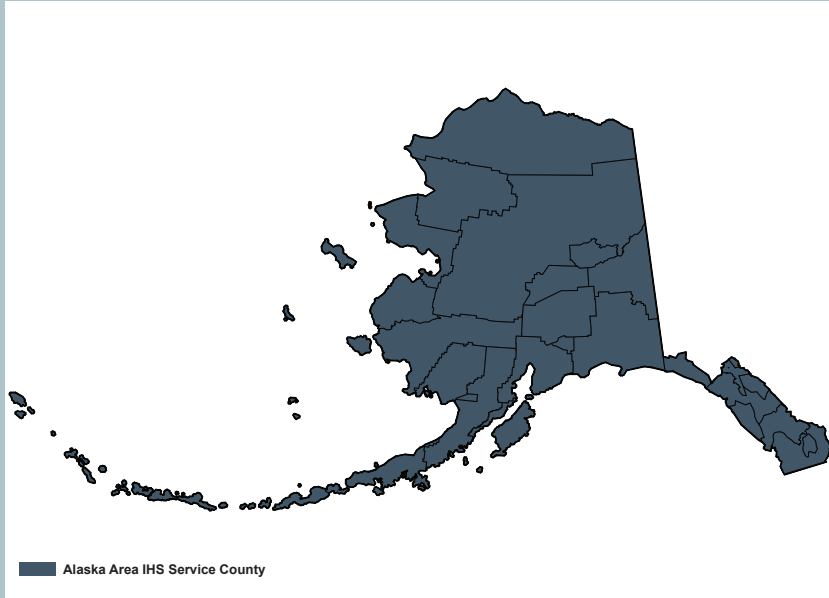
### P&S Rates by Sex, Aberdeen Area IHS



### P&S Rates by Sex and Age, Aberdeen Area IHS, 2009

No P&S cases reported in 2009

# Alaska Area IHS



## Geography:

- States: 1 (AK)
- County-equivalents: AK (27/27)

Tribes: 228

## IHS Service Population:

- 2009 (est.): 125,297
- Rank: 7 of 12 Areas

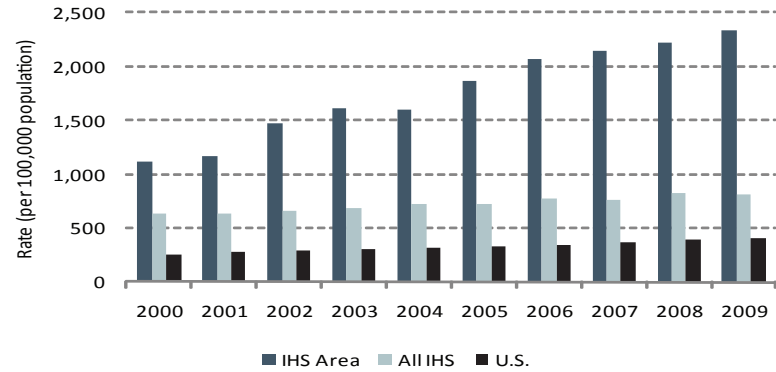
## Notes for the STD graphs:

- IHS rates based on AI/AN living in service counties
- U.S. rates based on all races and ethnicities
- Exclusions: None
- Adjustments: Cases with unknown race are redistributed
- IHS data source: NETSS
- U.S. data source: STDSS

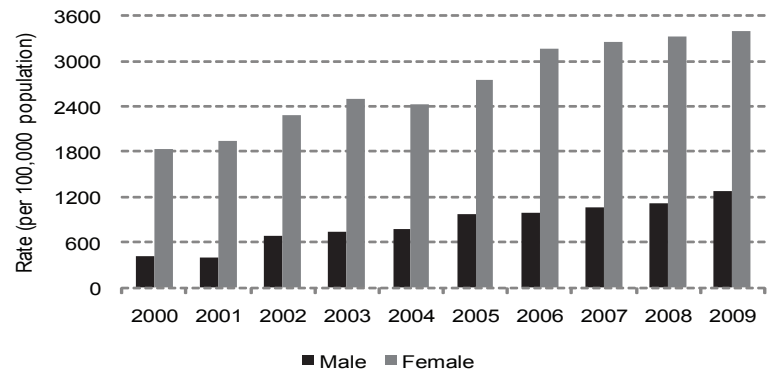
## Chlamydia

Reference: Tables 8A, 8B, 9A, 9B

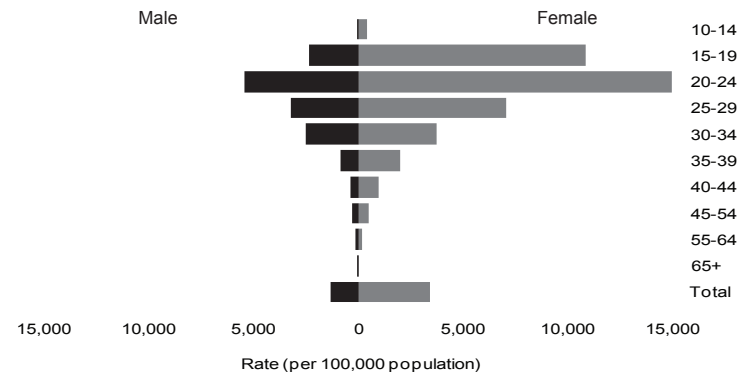
### Total Chlamydia Rates



### Chlamydia Rates by Sex, Alaska Area IHS, 2009



### Chlamydia Rates by Sex and Age, Alaska Area IHS, 2009

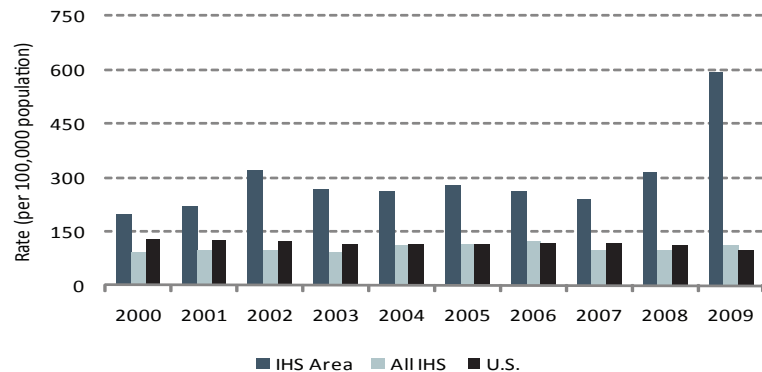




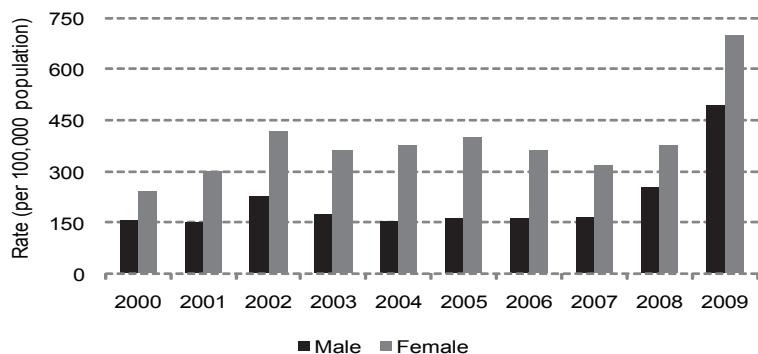
## Gonorrhea

Reference: Tables 10A, 10B, 11A, 11B

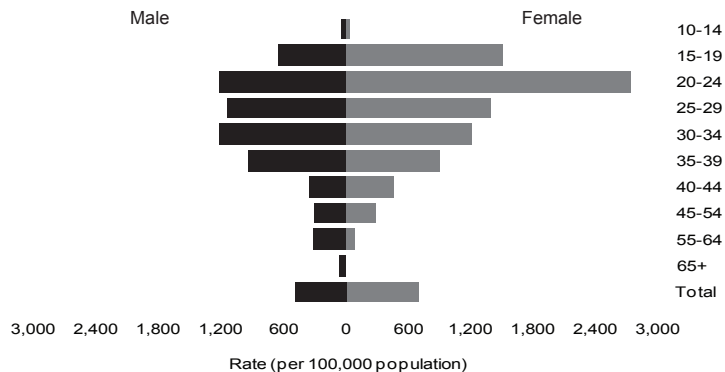
### Total Gonorrhea Rates



### Gonorrhea Rates by Sex, Alaska Area IHS



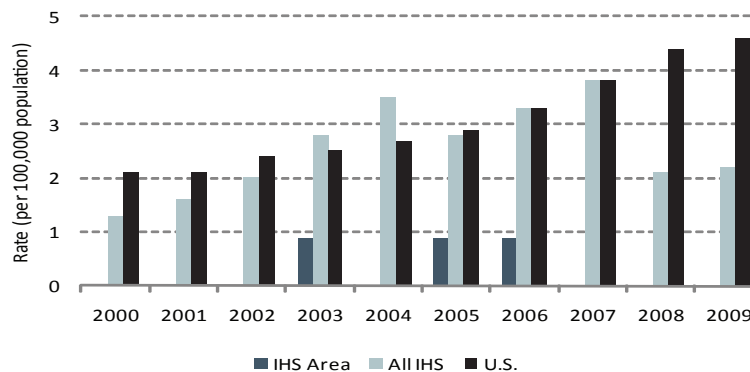
### Gonorrhea Rates by Sex and Age, Alaska Area IHS, 2009



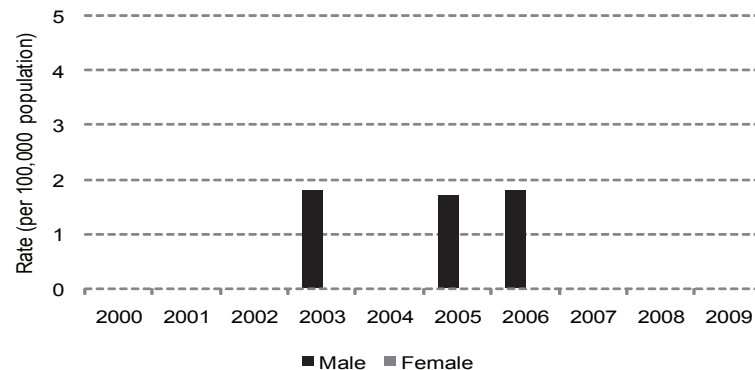
## Primary and Secondary Syphilis (P&S)

Reference: Tables 12A, 12B, 13A, 13B

### Total P&S Rates



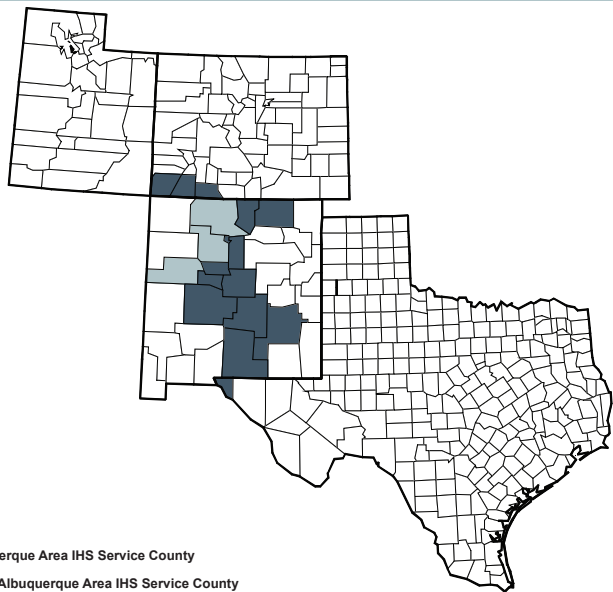
### P&S Rates by Sex, Alaska Area IHS



### P&S Rates by Sex and Age, Alaska Area IHS, 2009

**No P&S cases reported in 2009**

# Albuquerque Area IHS



## Geography:

- States: 4
- (CO, NM, TX, UT)
- Counties: CO (3/64) NM (15/33) TX (1/254) UT (1/29)

## Tribes: 25

## IHS Service Population:

- 2009 (est.): 107,863
- Rank: 10 of 12 Areas

## Notes for the STD graphs:

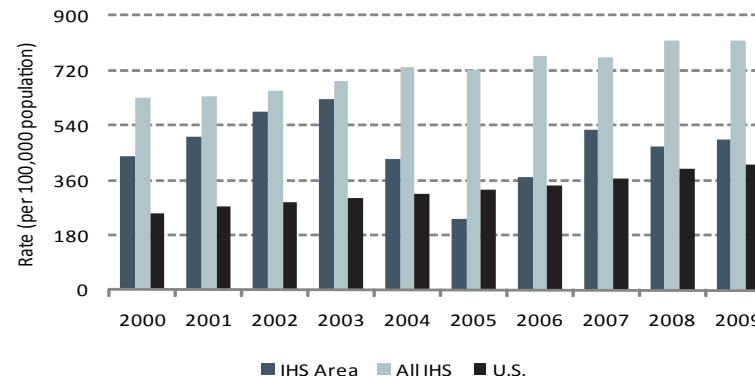
- IHS rates based on AI/AN living in service counties
- U.S. rates based on all races and ethnicities
- Exclusions: CO (chlamydia 98-01, 03-07) NM (chlamydia, gonorrhea, P&S 98)
- Adjustments: Cases with unknown race are redistributed; cases from partial Albuquerque Area service counties are redistributed.

- IHS data source: NETSS
- U.S. data source: STDSS

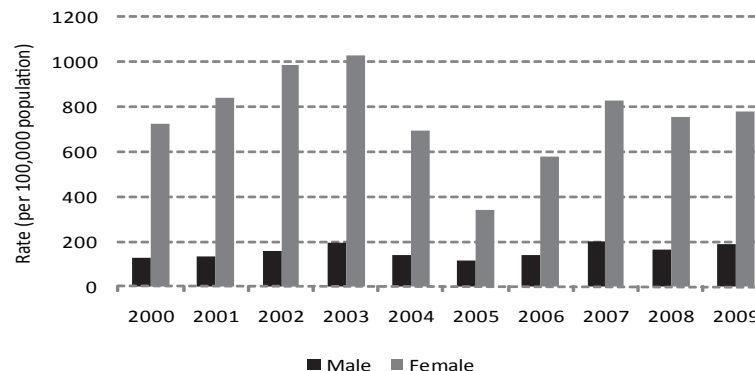
## Chlamydia

Reference: Tables 8A, 8B, 9A, 9B

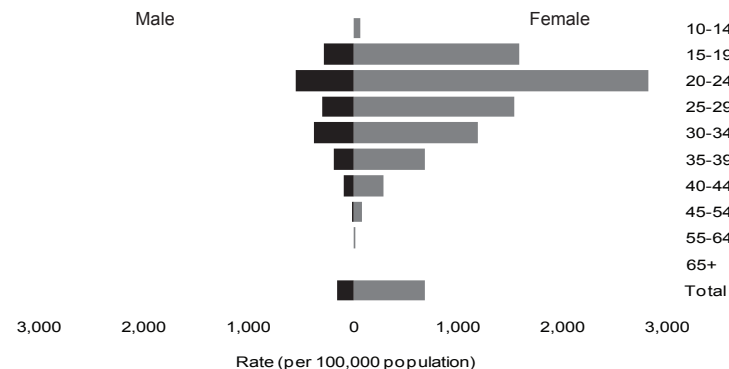
### Total Chlamydia Rates



### Chlamydia Rates by Sex, Albuquerque Area IHS



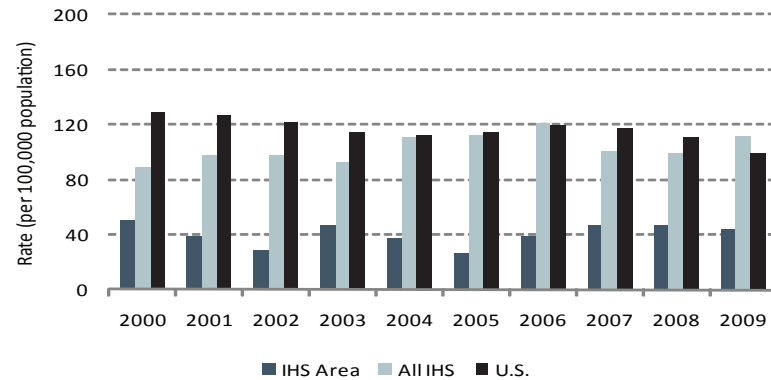
### Chlamydia Rates by Sex and Age, Albuquerque Area IHS, 2009



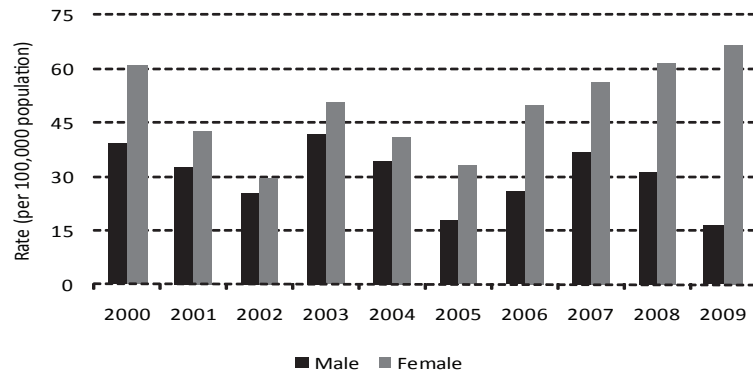
## Gonorrhea

Reference: Tables 10A, 10B, 11A, 11B

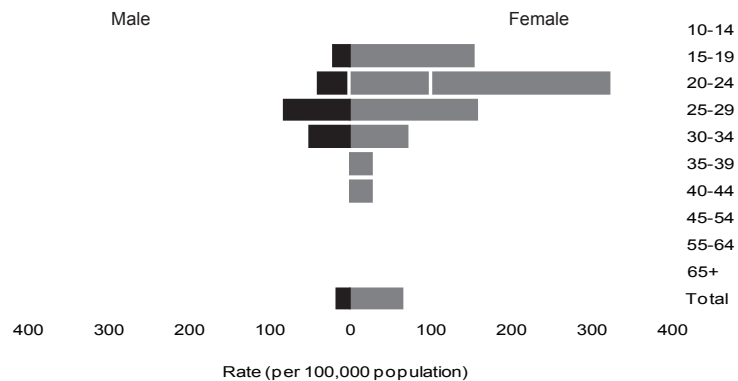
### Total Gonorrhea Rates



### Gonorrhea Rates by Sex, Albuquerque Area IHS



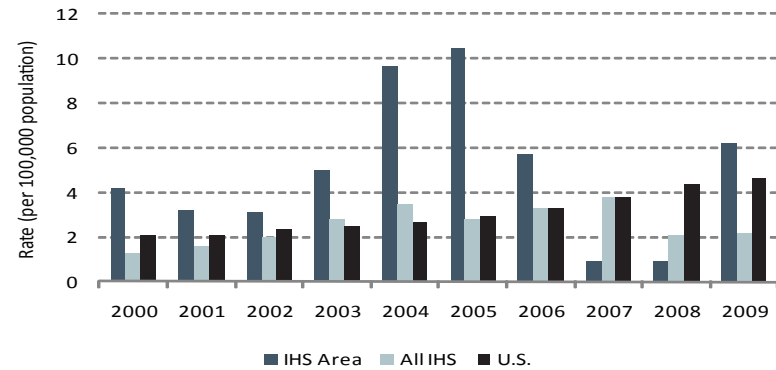
### Gonorrhea Rates by Sex and Age, Albuquerque Area IHS, 2009



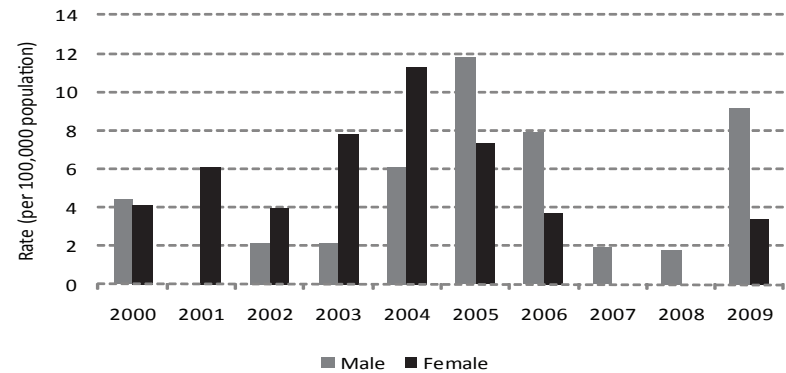
## Primary and Secondary Syphilis (P&S)

Reference: Tables 12A, 12B, 13A, 13B

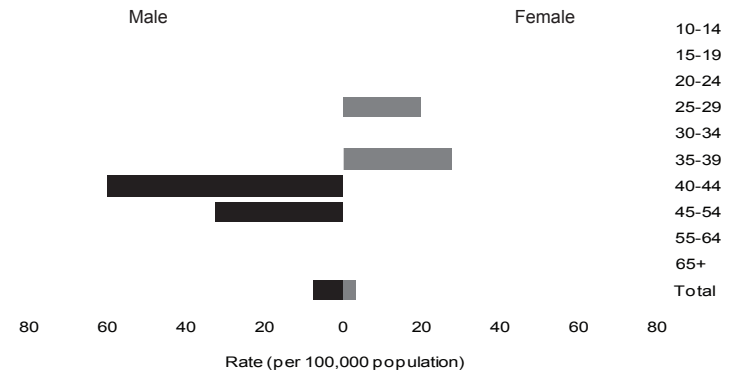
### Total P&S Rates



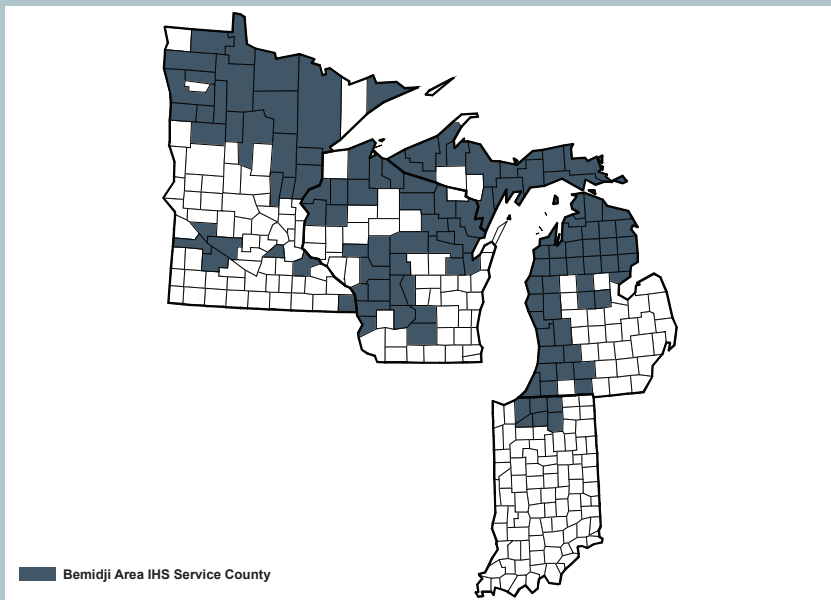
### P&S Rates by Sex, Albuquerque Area IHS



### P&S Rates by Sex and Age, Albuquerque Area IHS, 2009



# Bemidji Area IHS



### Geography:

- States: 4 (IN, MI, MN, WI)
- Counties: IN (6/92) MI (52/83) MN (27/87) WI (33/72)

Tribes: 34

### IHS Service Population:

- 2009 (est.): 121,603
- Rank: 8 of 12 Areas

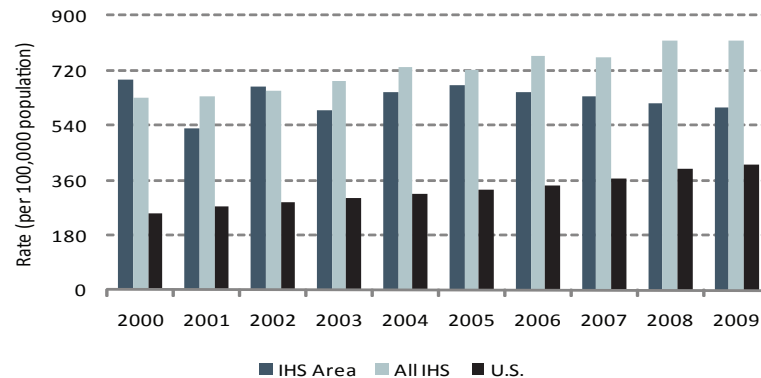
### Notes for the STD graphs:

- IHS rates based on AI/AN living in service counties
- U.S. rates based on all races and ethnicities
- Exclusions: IN (chlamydia, gonorrhea 98) MI (chlamydia 98-00,02)
- Adjustments: Cases with unknown race are redistributed
- IHS data source: NETSS
- U.S. data source: STDSS

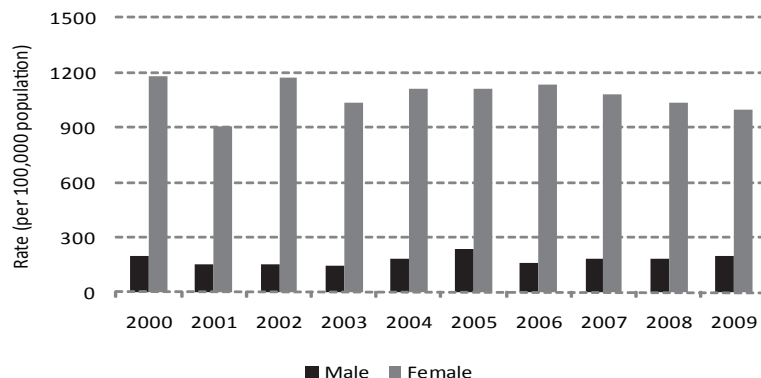
## Chlamydia

Reference: Tables 8A, 8B, 9A, 9B

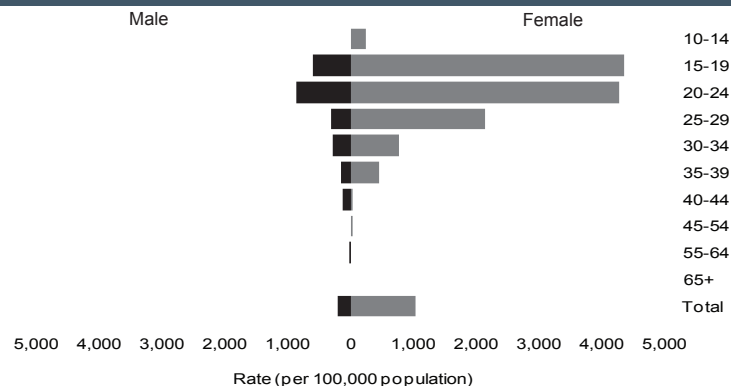
### Total Chlamydia Rates



### Chlamydia Rates by Sex, Bemidji Area IHS



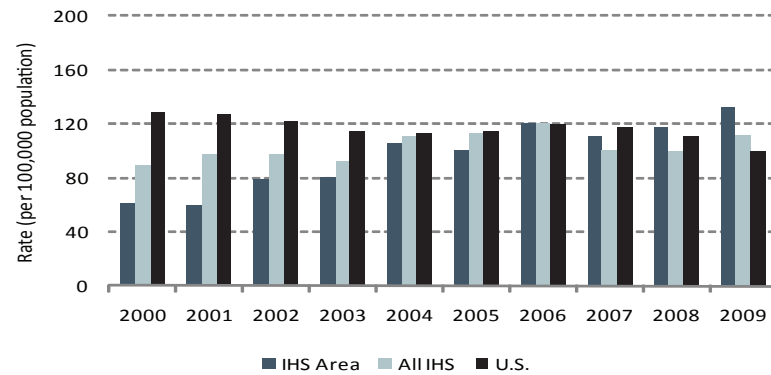
### Chlamydia Rates by Sex and Age, Bemidji Area IHS, 2009



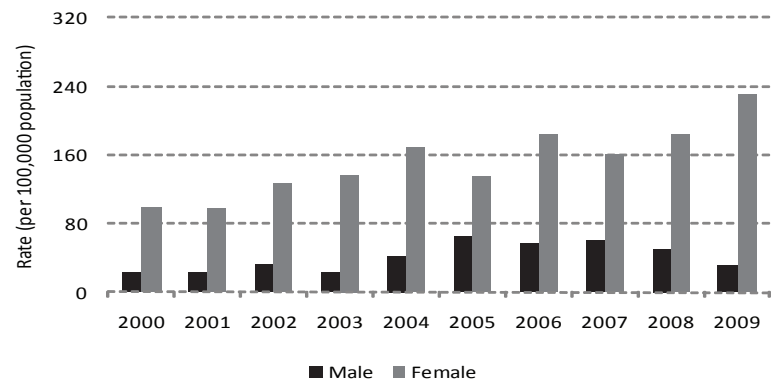
## Gonorrhea

Reference: Tables 10A, 10B, 11A, 11B

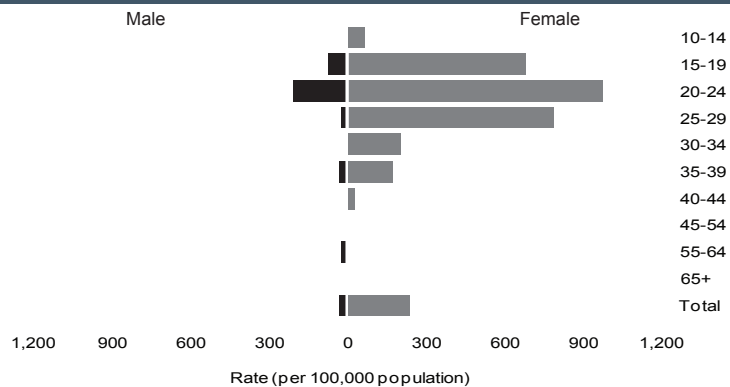
### Total Gonorrhea Rates



### Gonorrhea Rates by Sex, Bemidji Area IHS



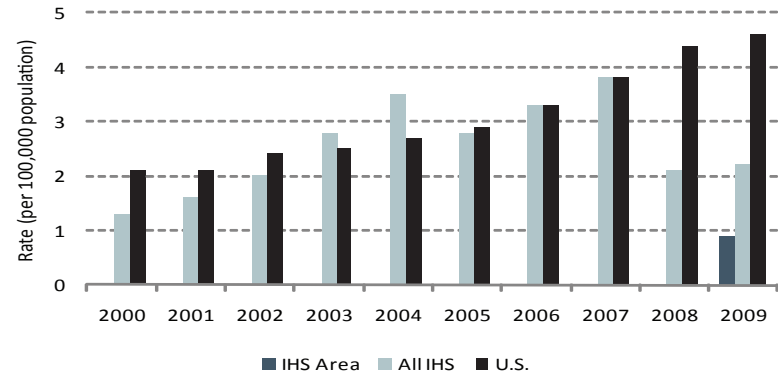
### Gonorrhea Rates by Sex and Age, Bemidji Area IHS, 2009



## Primary and Secondary Syphilis (P&S)

Reference: Tables 12A, 12B, 13A, 13B

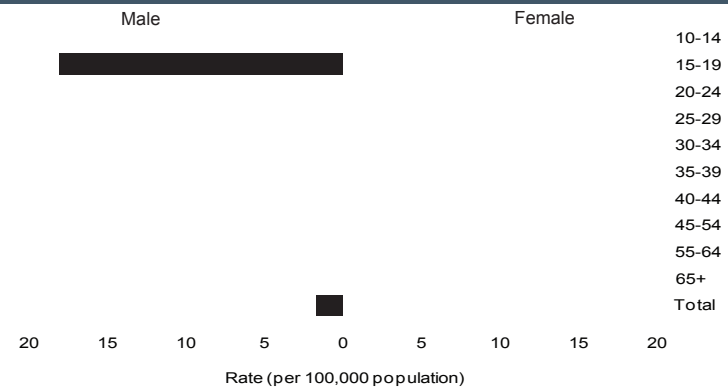
### Total P&S Rates



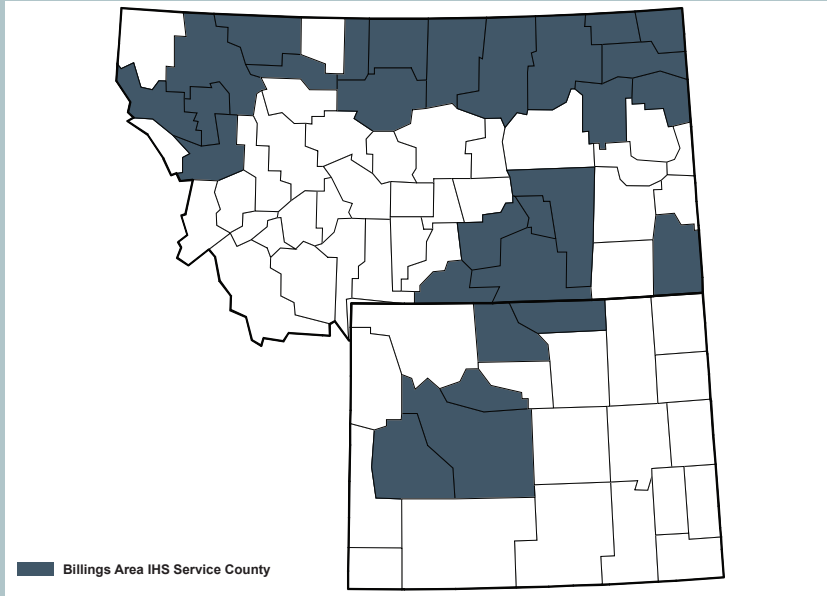
### P&S Rates by Sex, Bemidji Area IHS



### P&S Rates by Sex and Age, Bemidji Area IHS, 2009



# Billings Area IHS



### Geography:

- States: 2 (MT, WY)
- Counties: MT (23/56)  
WY (5/23)

**Tribes:** 8

### IHS Service Population:

- 2009 (est.): 68,630
- Rank: 11 of 12 Areas

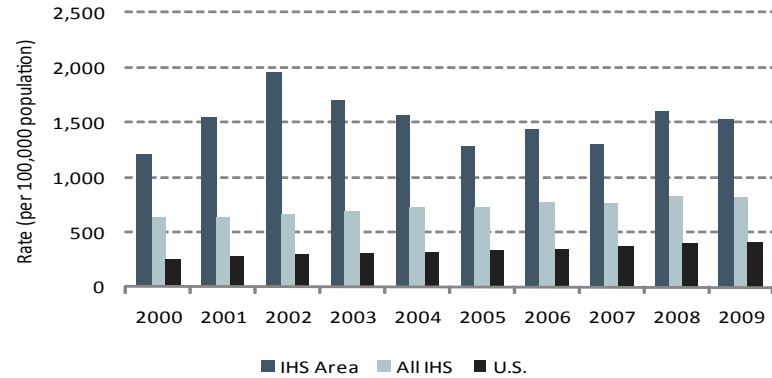
### Notes for the STD graphs:

- IHS rates based on AI/AN living in service counties
- U.S. rates based on all races and ethnicities
- Exclusions: MT (chlamydia, gonorrhea 98-99, P&S 99)
- Adjustments: Cases with unknown race are redistributed
- IHS data source: NETSS
- U.S. data source: STDSS

## Chlamydia

Reference: Tables 8A, 8B, 9A, 9B

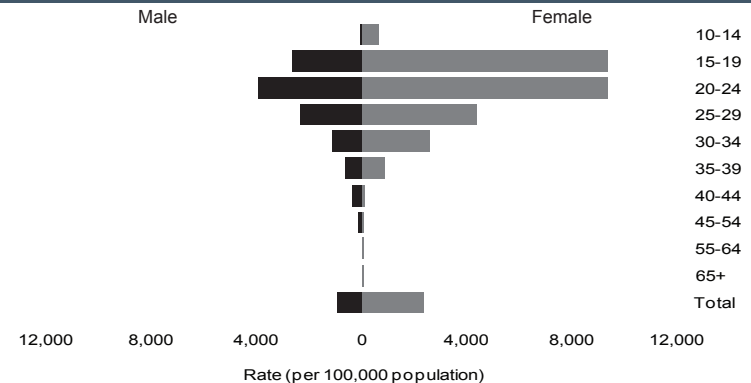
### Total Chlamydia Rates



### Chlamydia Rates by Sex, Billings Area IHS



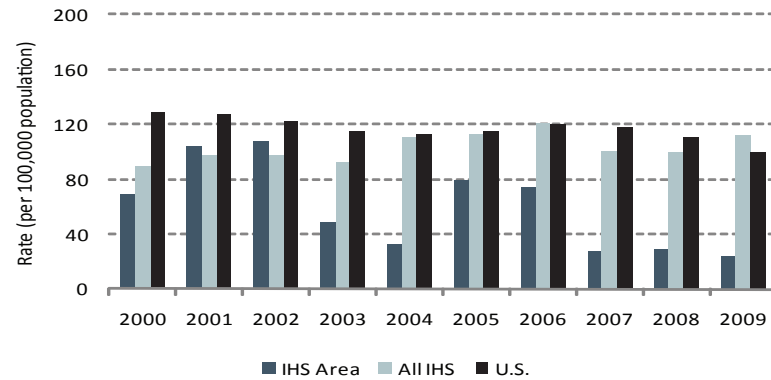
### Chlamydia Rates by Sex and Age, Billings Area IHS, 2009



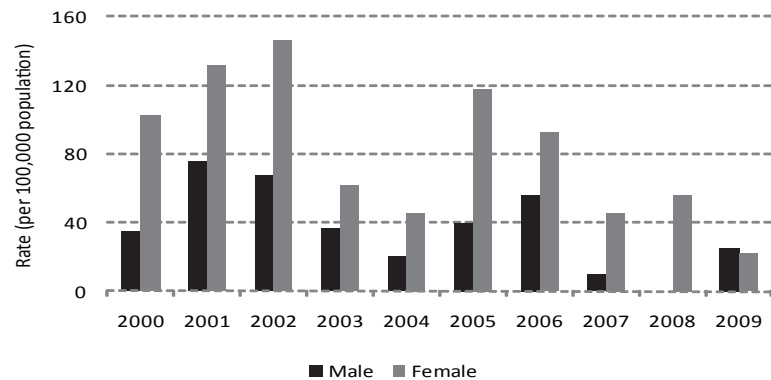
## Gonorrhea

Reference: Tables 10A, 10B, 11A, 11B

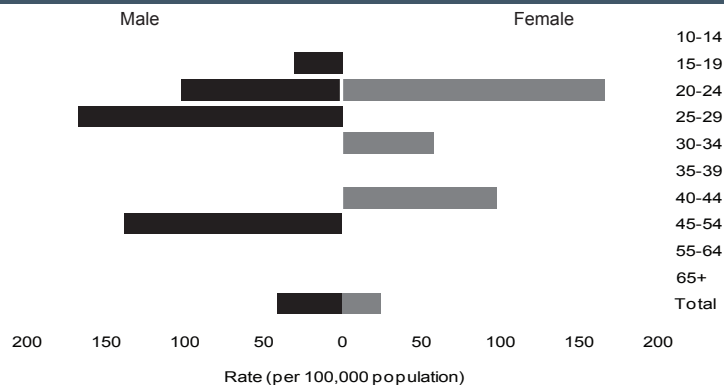
### Total Gonorrhea Rates



### Gonorrhea Rates by Sex, Billings Area IHS



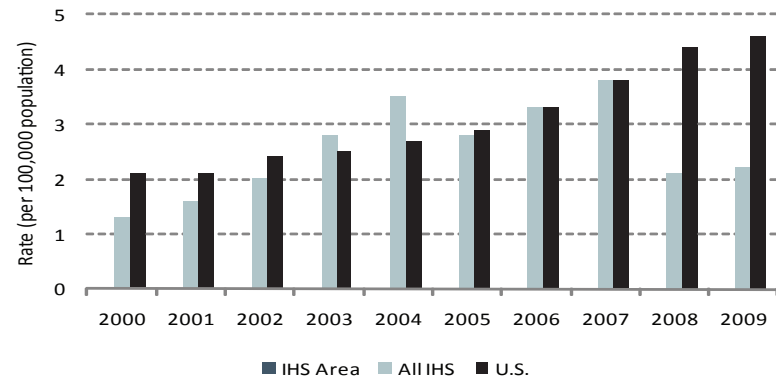
### Gonorrhea Rates by Sex and Age, Billings Area IHS, 2009



## Primary and Secondary Syphilis (P&S)

Reference: Tables 12A, 12B, 13A, 13B

### Total P&S Rates



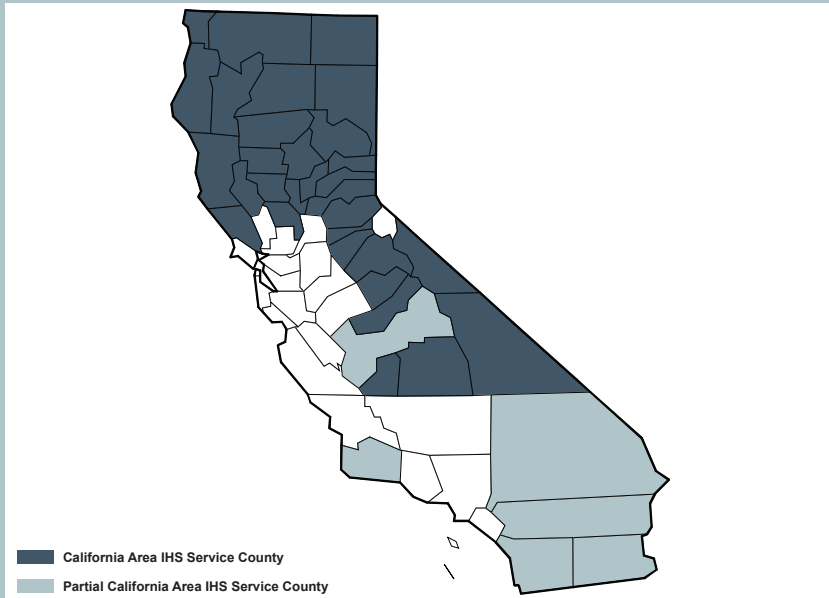
### P&S Rates by Sex, Billings Area IHS

No P&S cases reported in 2009

### P&S Rates by Sex and Age, Billings Area IHS, 2009

No P&S cases reported in 2009

# California Area IHS



## Geography:

- States: 1 (CA)
- Counties: CA (37/58)

**Tribes:** 107

## IHS Service Population:

- 2009 (est.): 182,825
- Rank: 5 of 12 Areas

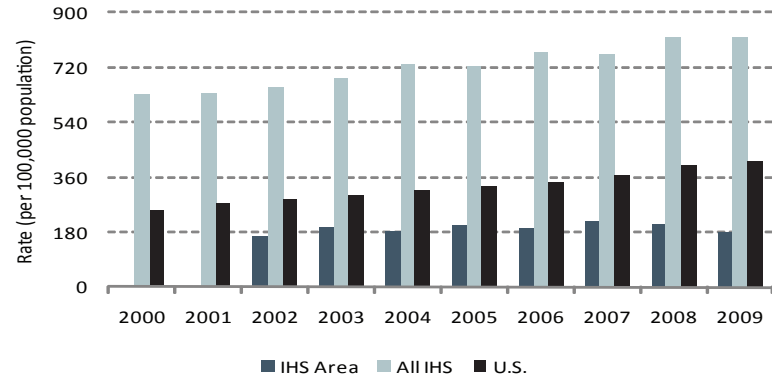
## Notes for the STD graphs:

- IHS rates based on AI/AN living in service counties
- U.S. rates based on all races and ethnicities
- Exclusions: CA (chlamydia, gonorrhea 98-01)
- Adjustments: Cases with unknown race are redistributed; cases from partial California Area service counties are redistributed
- IHS data source: NETSS
- U.S. data source: STDSS

## Chlamydia

Reference: Tables 8A, 8B, 9A, 9B

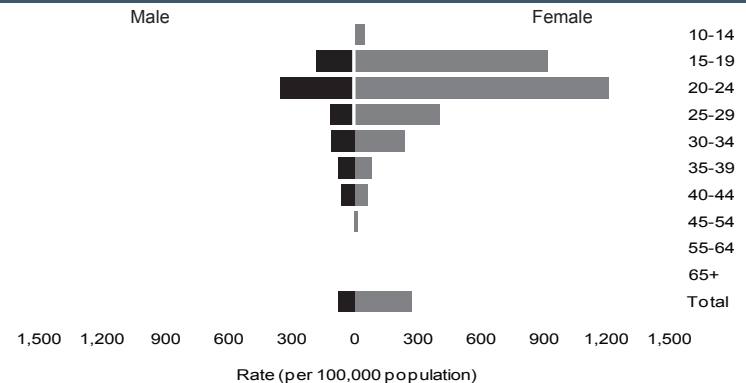
### Total Chlamydia Rates



### Chlamydia Rates by Sex, California Area IHS



### Chlamydia Rates by Sex and Age, California Area IHS, 2009

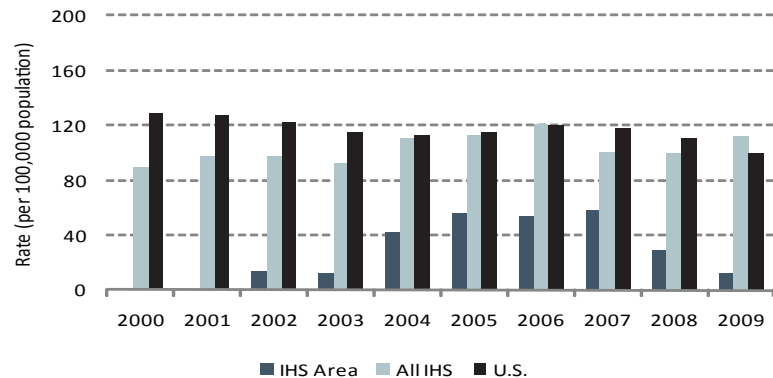




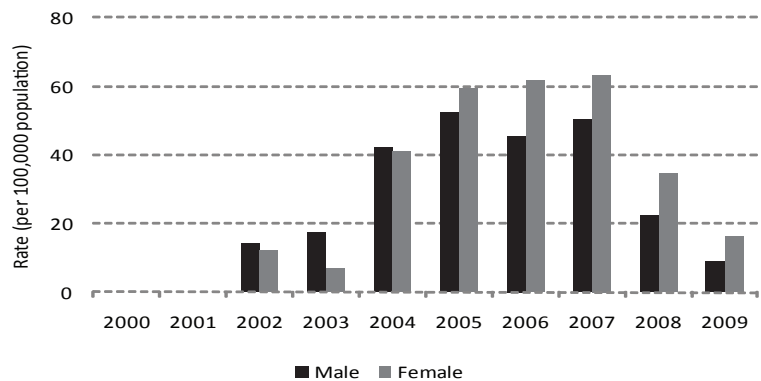
## Gonorrhea

Reference: Tables 10A, 10B, 11A, 11B

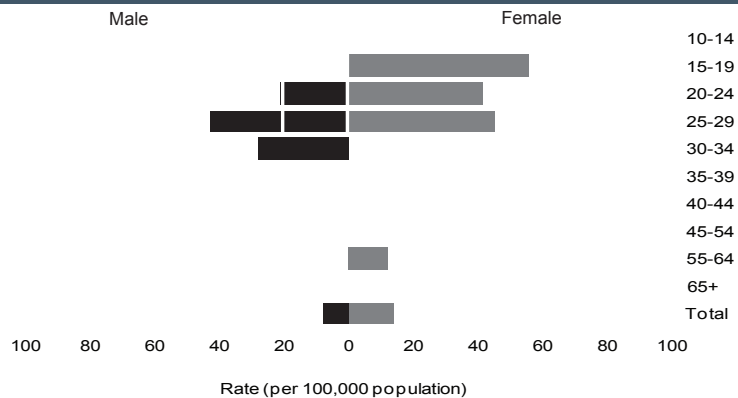
### Total Gonorrhea Rates



### Gonorrhea Rates by Sex, California Area IHS



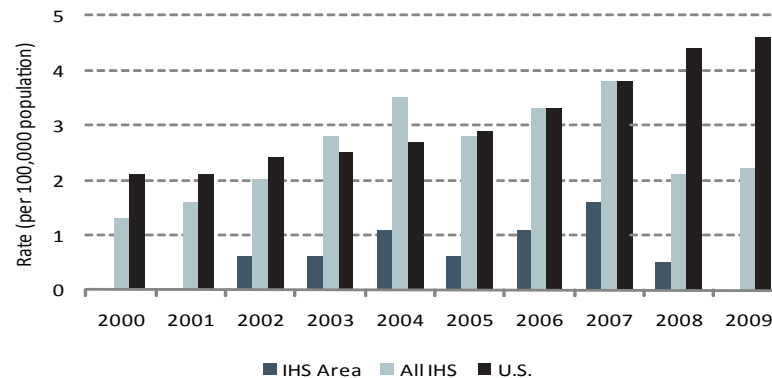
### Gonorrhea Rates by Sex and Age, California Area IHS, 2009



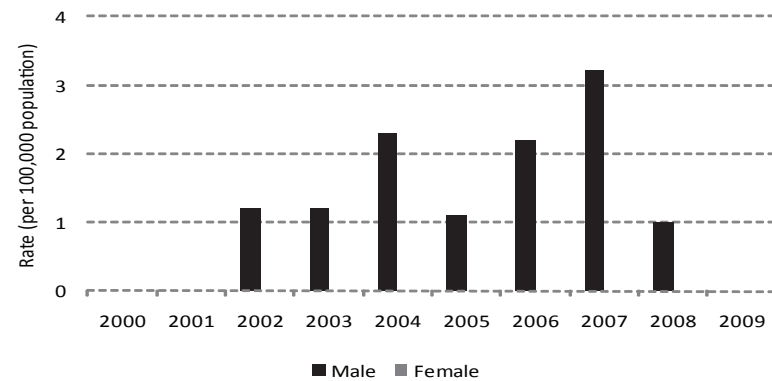
## Primary and Secondary Syphilis (P&S)

Reference: Tables 12A, 12B, 13A, 13B

### Total P&S Rates



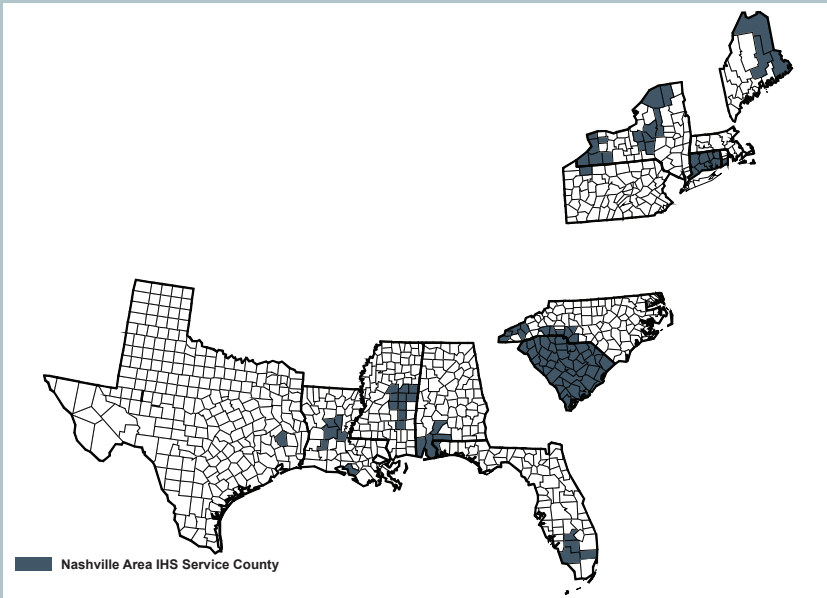
### P&S Rates by Sex, California Area IHS



### P&S Rates by Sex and Age, California Area IHS, 2009

No P&S cases reported in 2009

# Nashville Area IHS



## Geography:

- States: 13 (AL, CT, FL, LA, ME, MA, MS, NY, NC, PA, RI, SC, TX)
- Counties: AL (4/67) CT (8/8) FL (6/67) LA (6/64) ME (3/16) MA (1/14) MS (10/82) NY (14/62) NC (11/100) PA (1/67) RI (1/5) SC (46/46) TX (1/254)

Tribes: 24

## IHS Service Population:

- 2009 (est.): 128,489
- Rank: 6 of 12 Areas

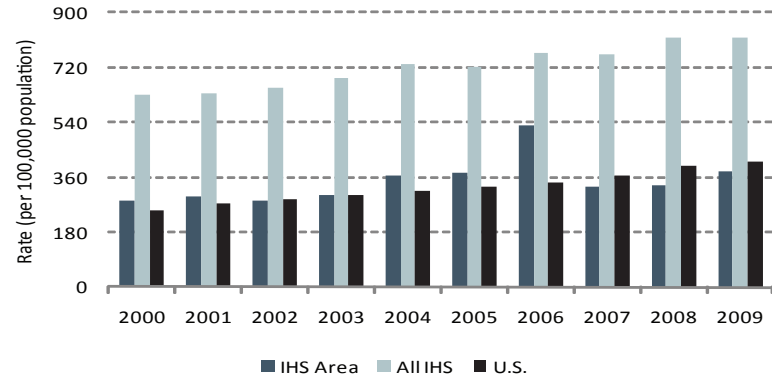
## Notes for the STD graphs:

- IHS rates based on AI/AN living in service counties
- U.S. rates based on all races and ethnicities
- Exclusions: LA (chlamydia, gonorrhea, P&S 98-99)
- SC&MA (chlamydia, gonorrhea 98-99) NC (chlamydia, gonorrhea 98-99) NY (chlamydia 98-99, gonorrhea 98)
- Adjustments: Cases with unknown race are redistributed
- IHS data source: NETSS
- U.S. data source: STDSS

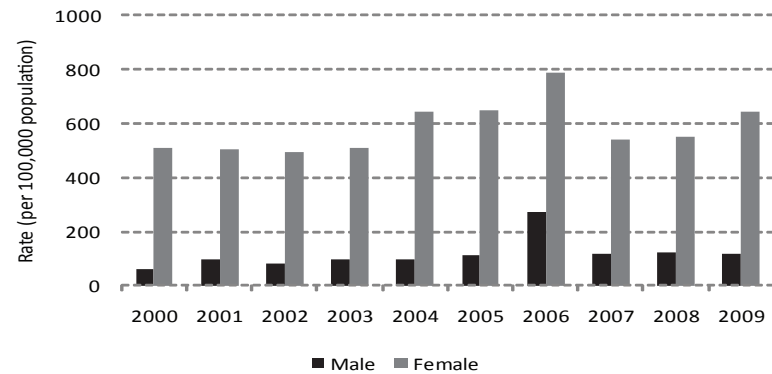
## Chlamydia

Reference: Tables 8A, 8B, 9A, 9B

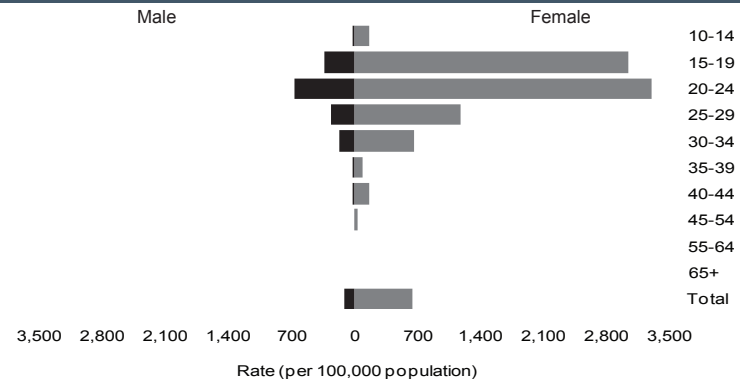
### Total Chlamydia Rates



### Chlamydia Rates by Sex, Nashville Area IHS



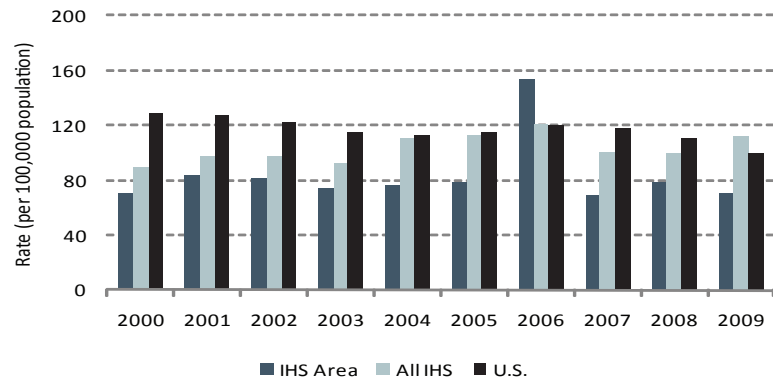
### Chlamydia Rates by Sex and Age, Nashville Area IHS, 2009



## Gonorrhea

Reference: Tables 10A, 10B, 11A, 11B

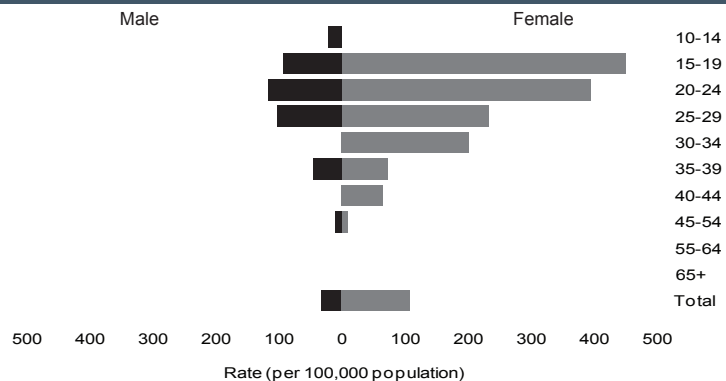
### Total Gonorrhea Rates



### Gonorrhea Rates by Sex, Nashville Area IHS



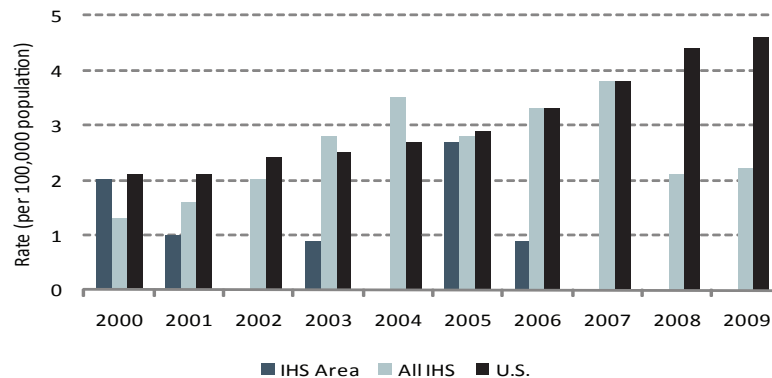
### Gonorrhea Rates by Sex and Age, Nashville Area IHS, 2009



## Primary and Secondary Syphilis (P&S)

Reference: Tables 12A, 12B, 13A, 13B

### Total P&S Rates



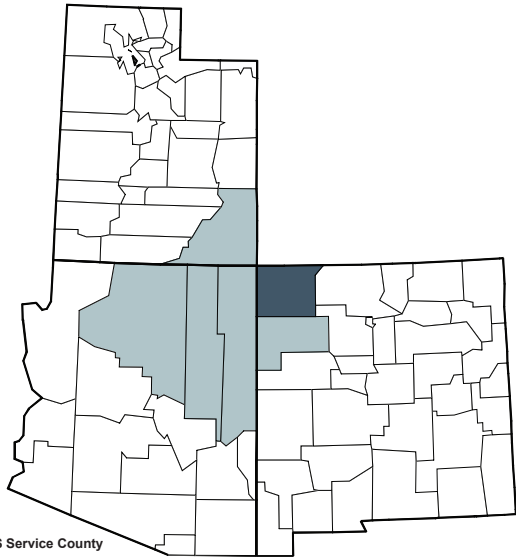
### P&S Rates by Sex, Nashville Area IHS



### P&S Rates by Sex and Age, Nashville Area IHS, 2009

No P&S cases reported in 2009

# Navajo Area IHS



## Geography:

- States: 3 (AZ, NM, UT)
- Counties: AZ (3/15) NM (5/33) UT (2/29)

## Tribes: 2

## IHS Service Population:

- 2009 (est.): 245,831
- Rank: 2 of 12 Areas

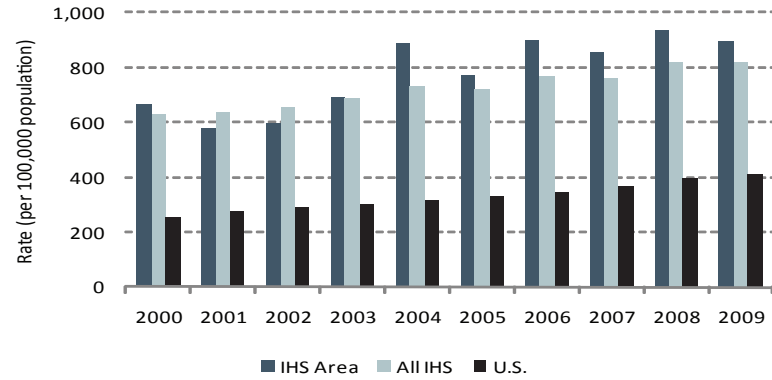
## Notes for the STD graphs:

- IHS rates based on AI/AN living in service counties
- U.S. rates based on all races and ethnicities
- Exclusions: NM (chlamydia, gonorrhea, P&S 98)
- Adjustments: Cases with unknown race are redistributed; cases from partial Navajo Area service counties are redistributed
- IHS data source: NETSS
- U.S. data source: STDSS

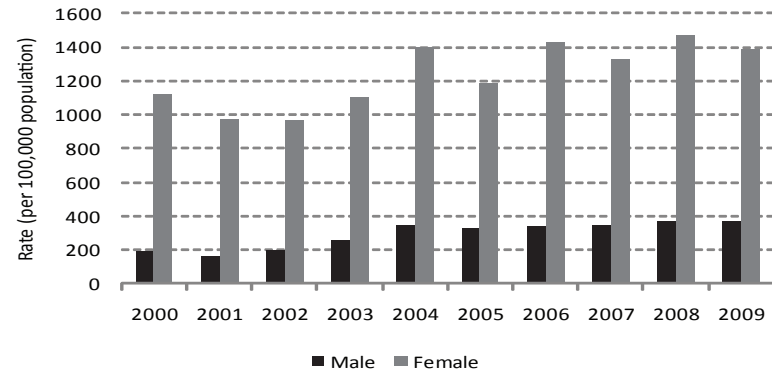
## Chlamydia

Reference: Tables 8A, 8B, 9A, 9B

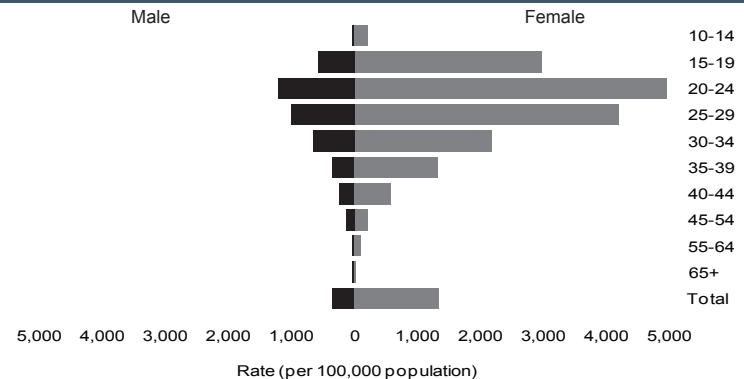
### Total Chlamydia Rates



### Chlamydia Rates by Sex, Navajo Area IHS



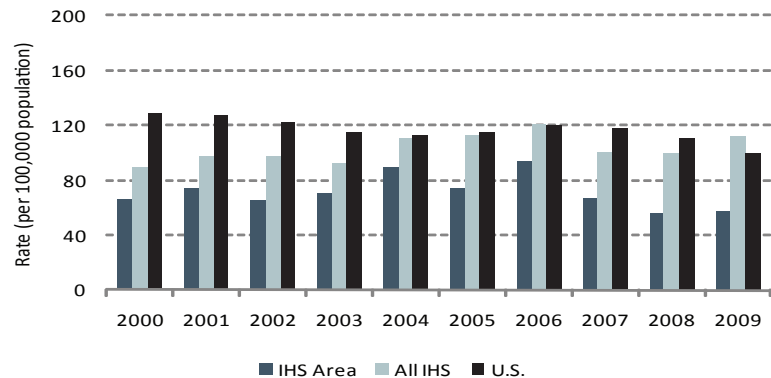
### Chlamydia Rates by Sex and Age, Navajo Area IHS, 2009



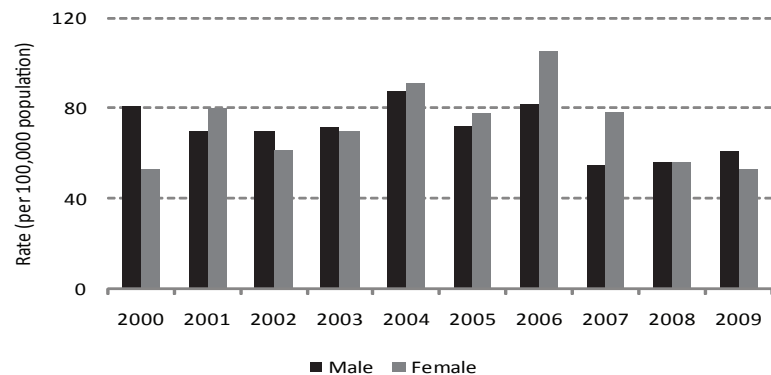
## Gonorrhea

Reference: Tables 10A, 10B, 11A, 11B

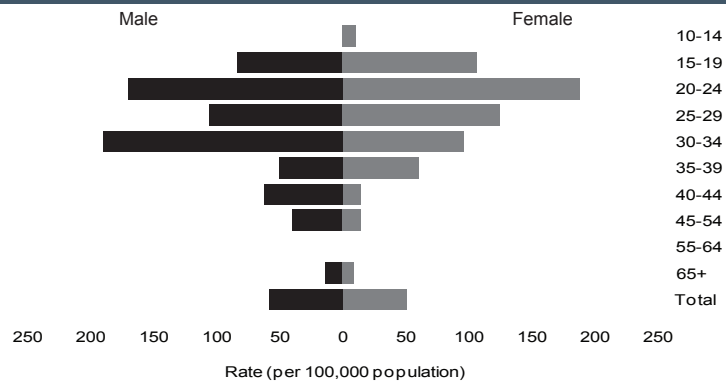
### Total Gonorrhea Rates



### Gonorrhea Rates by Sex, Navajo Area IHS



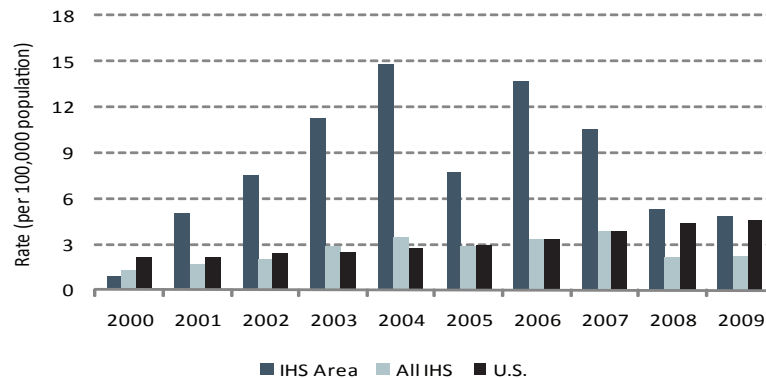
### Gonorrhea Rates by Sex and Age, Navajo Area IHS, 2009



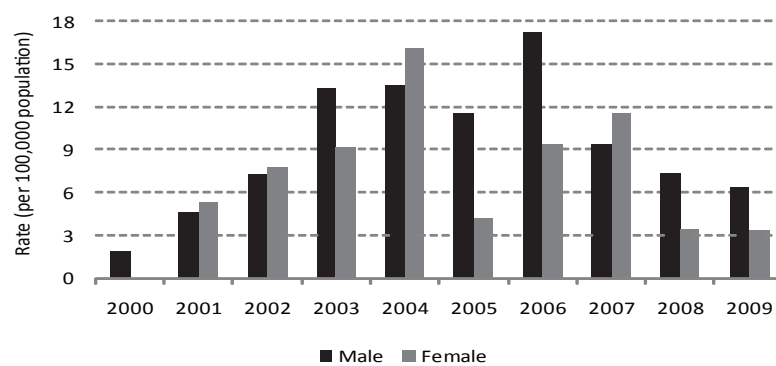
## Primary and Secondary Syphilis (P&S)

Reference: Tables 12A, 12B, 13A, 13B

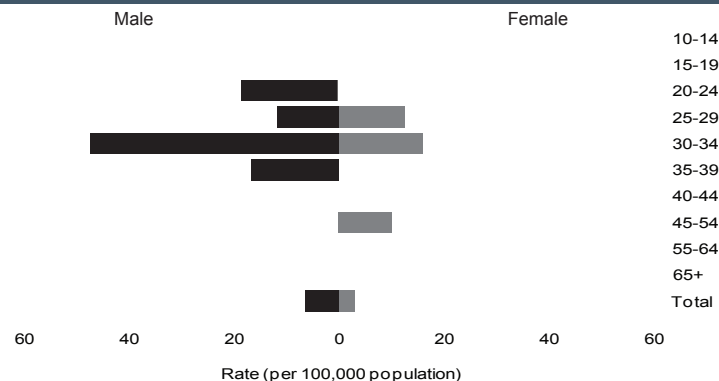
### Total P&S Rates



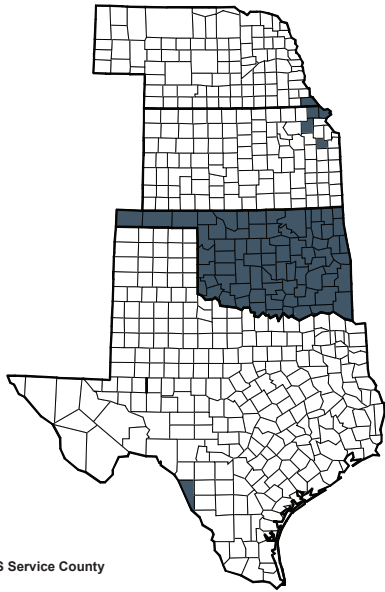
### P&S Rates by Sex, Navajo Area IHS



### P&S Rates by Sex and Age, Navajo Area IHS, 2009



# Oklahoma Area IHS



## Geography:

- States: 4 (KS, NE, OK, TX)
- Counties: KS (4/105) NE (1/93) OK (77/77) TX (1/254)

Tribes: 37

## IHS Service Population:

- 2009 (est.): 366,686
- Rank: 1 of 12 Areas

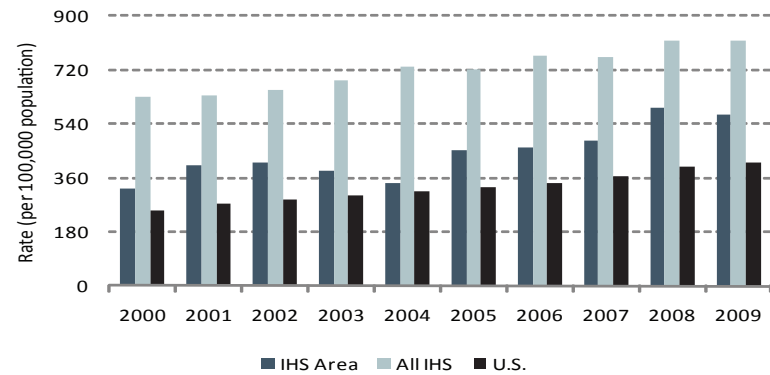
## Notes for the STD graphs:

- IHS rates based on AI/AN living in service counties
- U.S. rates based on all races and ethnicities
- Exclusions: None
- Adjustments: Cases with unknown race are redistributed
- IHS data source: NETSS
- U.S. data source: STDSS

## Chlamydia

Reference: Tables 8A, 8B, 9A, 9B

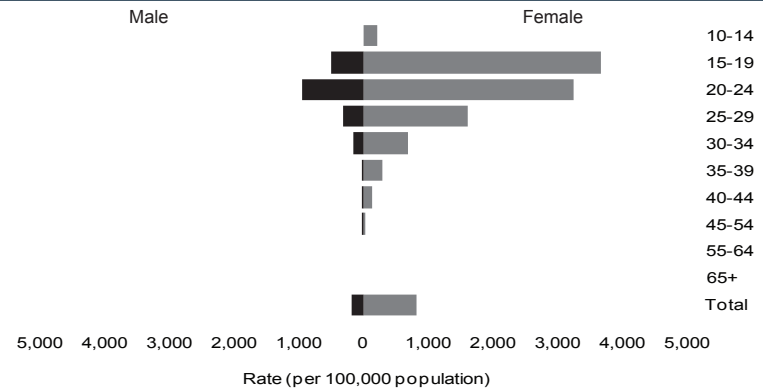
### Total Chlamydia Rates



### Chlamydia Rates by Sex, Oklahoma City Area IHS



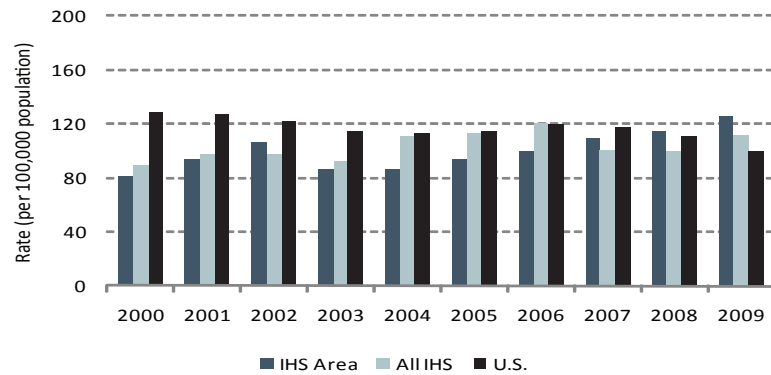
### Chlamydia Rates by Sex and Age, Oklahoma City Area IHS, 2009



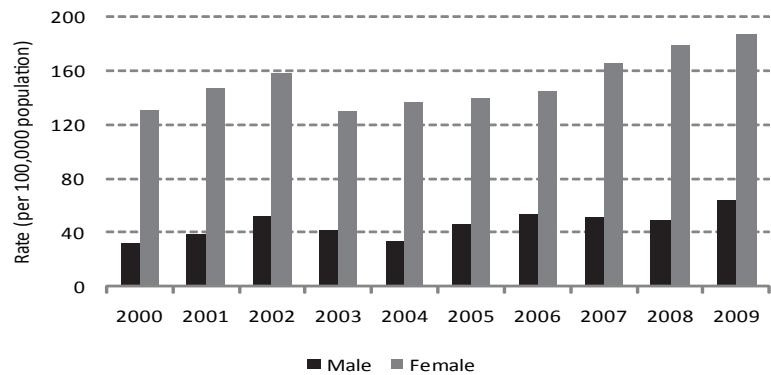
## Gonorrhea

Reference: Tables 10A, 10B, 11A, 11B

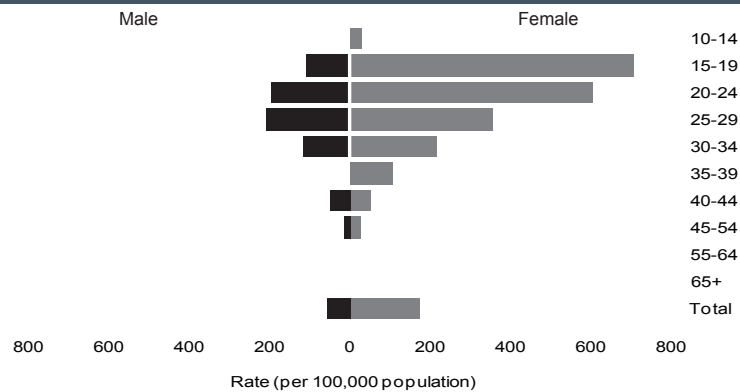
### Total Gonorrhea Rates



### Gonorrhea Rates by Sex, Oklahoma City Area IHS



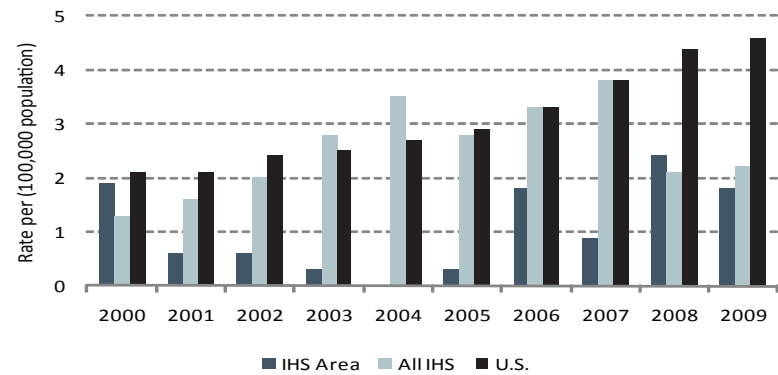
### Gonorrhea Rates by Sex and Age, Oklahoma City Area IHS, 2009



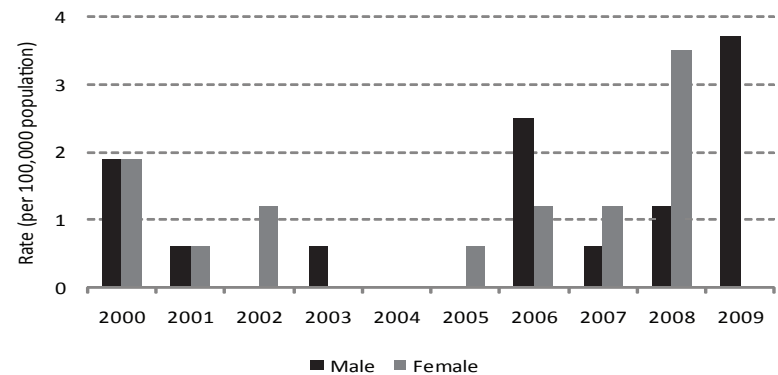
## Primary and Secondary Syphilis (P&S)

Reference: Tables 12A, 12B, 13A, 13B

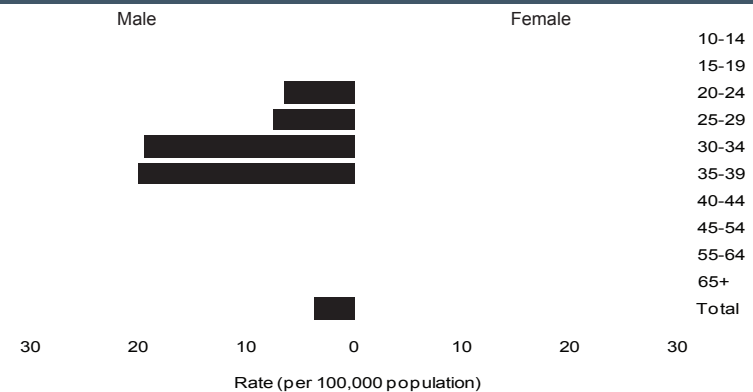
### Total P&S Rates



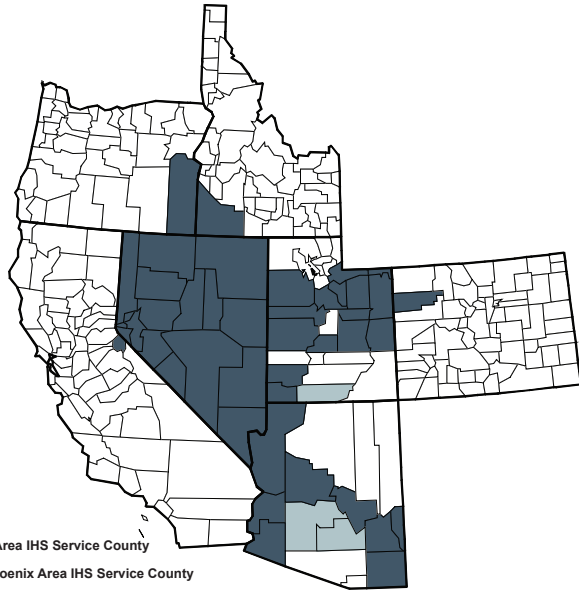
### P&S Rates by Sex, Oklahoma City Area IHS



### P&S Rates by Sex and Age, Oklahoma City Area IHS, 2009



# Phoenix Area IHS



## Geography:

- States: 7 (AZ, CA, CO, ID, NV, OR, UT)
- Counties: AZ (13/15) CA (4/58) CO (1/64) ID (1/44) NV (17/17) OR (1/36) UT (16/29)

Tribes: 41

## IHS Service Population:

- 2009 (est.): 203,832
- Rank: 3 of 12 Areas

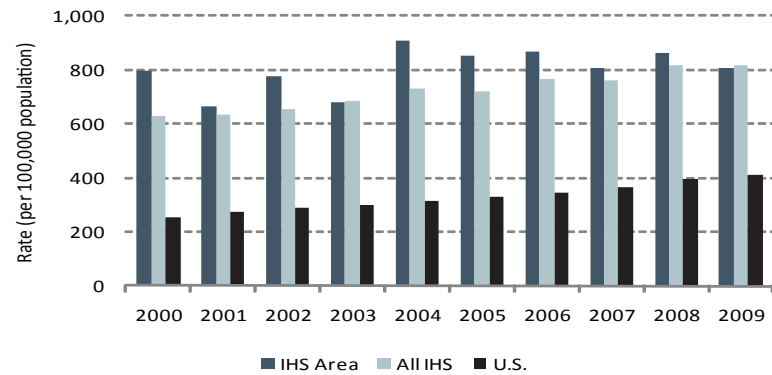
## Notes for the STD graphs:

- IHS rates based on AI/AN living in service counties
- U.S. rates based on all races and ethnicities
- Exclusions: CA (chlamydia, gonorrhea 98-01) CO (chlamydia 98-01, 03-07) ID (gonorrhea 98, P&S 07)
- Adjustments: Cases with unknown race are redistributed; cases from partial Phoenix Area service counties are redistributed)
- IHS data source: NETSS
- U.S. data source: STDSS

## Chlamydia

Reference: Tables 8A, 8B, 9A, 9B

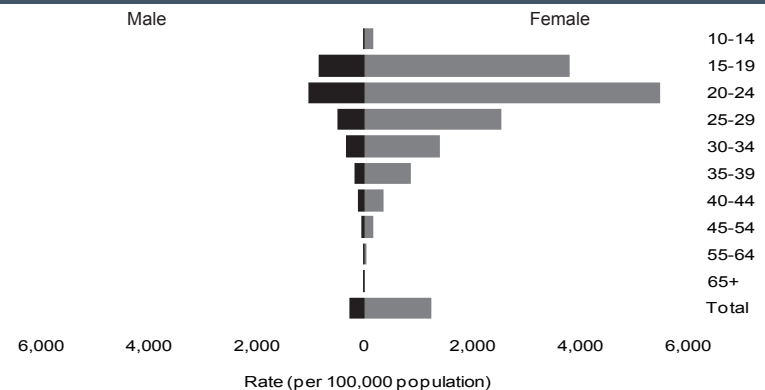
### Total Chlamydia Rates



### Chlamydia Rates by Sex, Phoenix Area IHS



### Chlamydia Rates by Sex and Age, Phoenix Area IHS, 2009

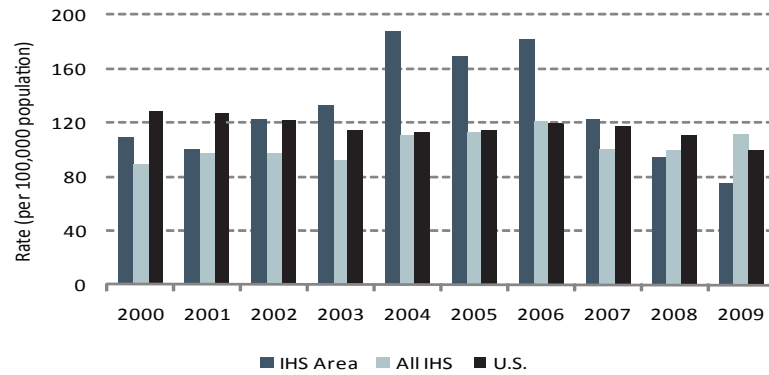




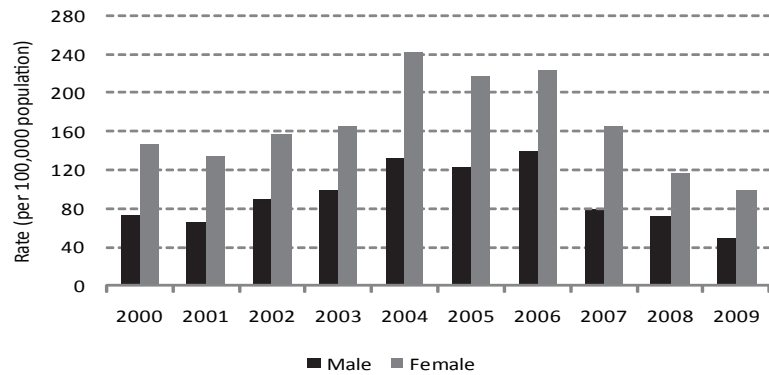
## Gonorrhea

Reference: Tables 10A, 10B, 11A, 11B

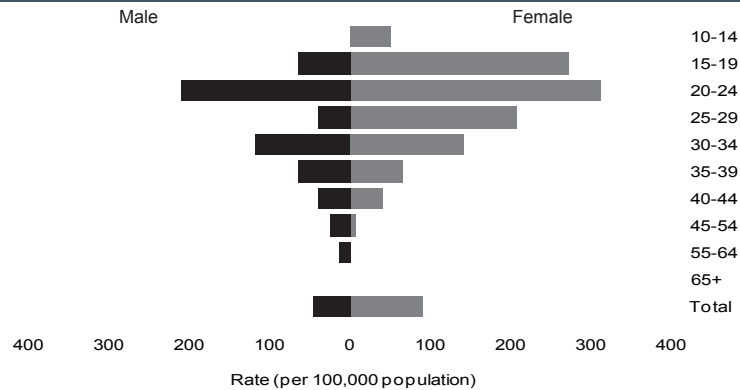
### Total Gonorrhea Rates



### Gonorrhea Rates by Sex, Phoenix Area IHS



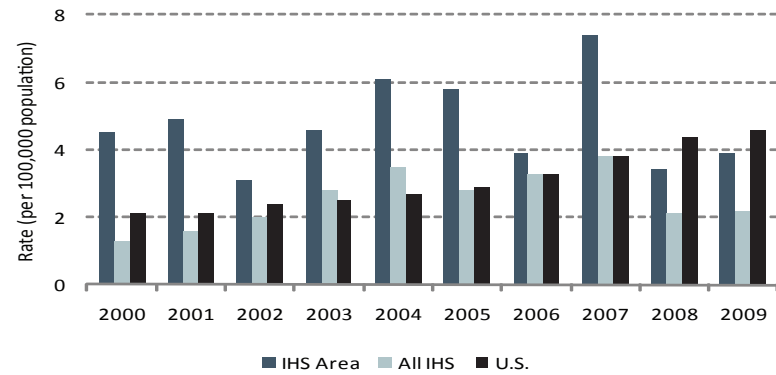
### Gonorrhea Rates by Sex and Age, Phoenix Area IHS, 2009



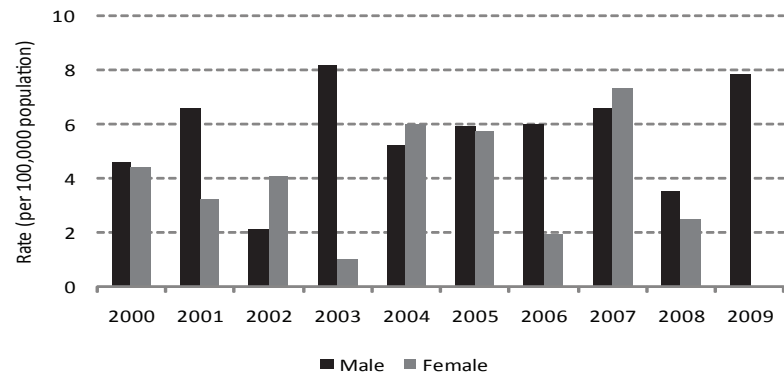
## Primary and Secondary Syphilis (P&S)

Reference: Tables 12A, 12B, 13A, 13B

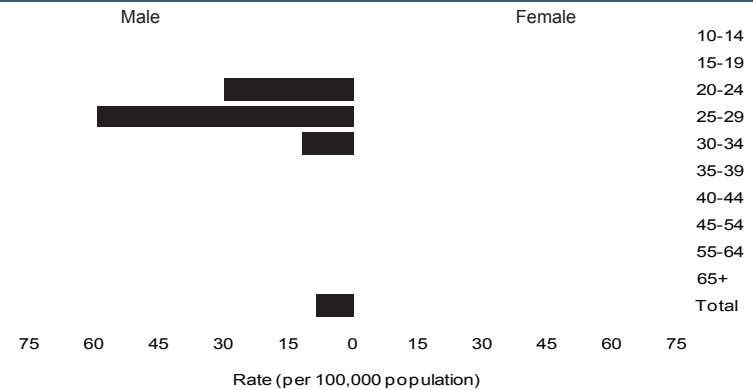
### Total P&S Rates



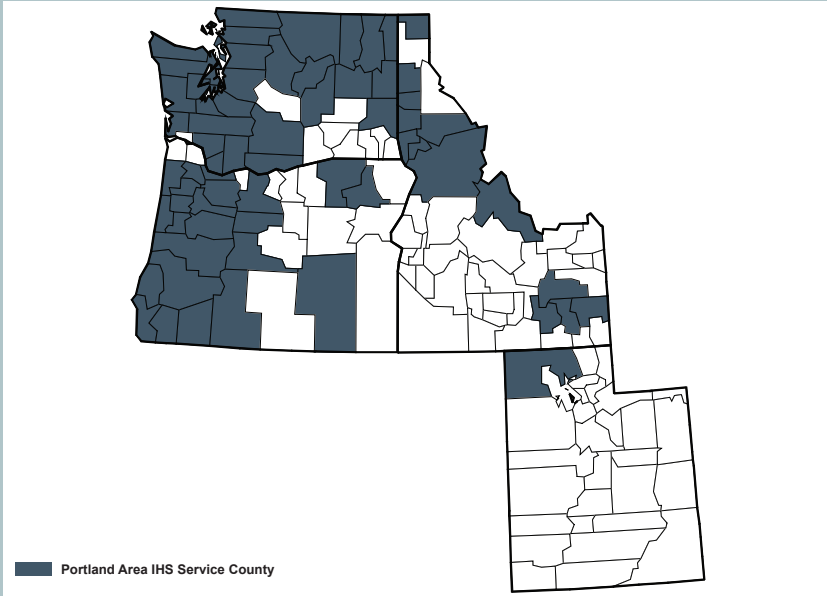
### P&S Rates by Sex, Phoenix Area IHS



### P&S Rates by Sex and Age, Phoenix Area IHS, 2009



# Portland Area IHS



## Geography:

- States: 4 (ID, OR, UT, WA)
- Counties: ID (13/44) OR (23/36) UT (1/29) WA (30/39)

Tribes: 43

## IHS Service Population:

- 2009 (est.): 201,610
- Rank: 4 of 12 Areas

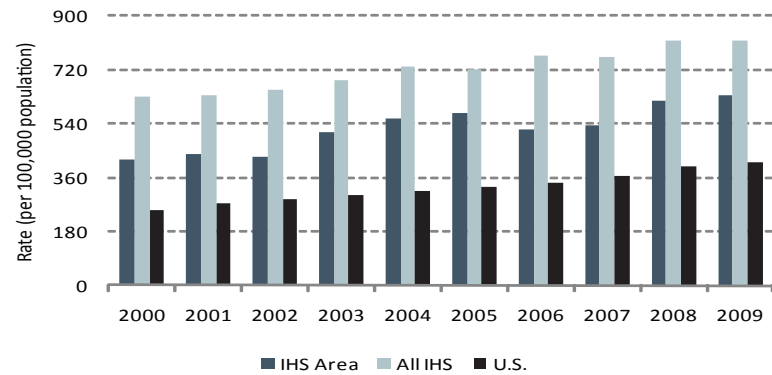
## Notes for the STD graphs:

- IHS rates based on AI/AN living in service counties
- U.S. rates based on all races and ethnicities
- Exclusions: ID (gonorrhea 98, P&S 07)
- Adjustments: Cases with unknown race are redistributed
- IHS data source: NETSS
- U.S. data source: STDSS

## Chlamydia

Reference: Tables 8A, 8B, 9A, 9B

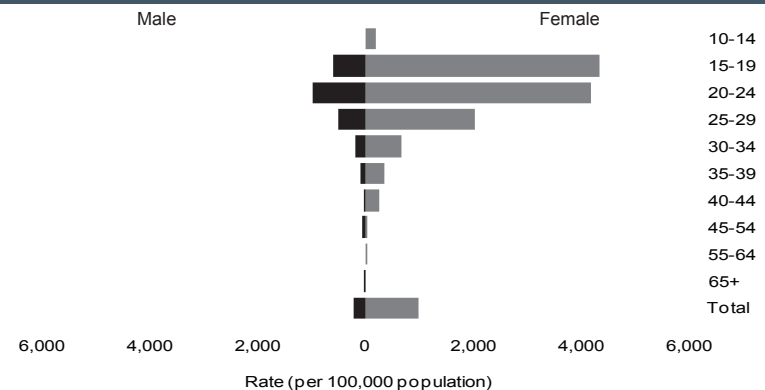
### Total Chlamydia Rates



### Chlamydia Rates by Sex, Portland Area IHS



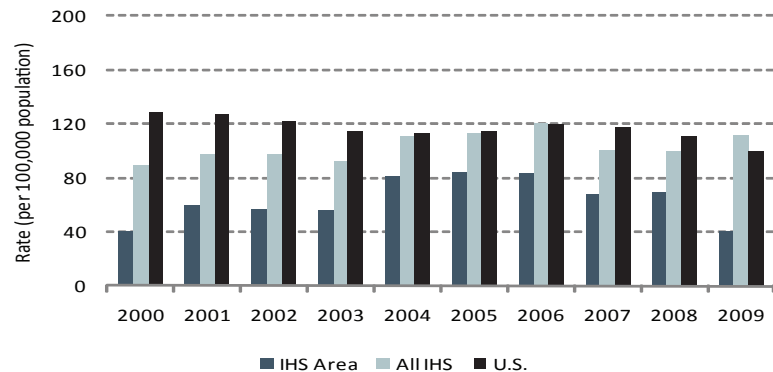
### Chlamydia Rates by Sex and Age, Portland Area IHS, 2009



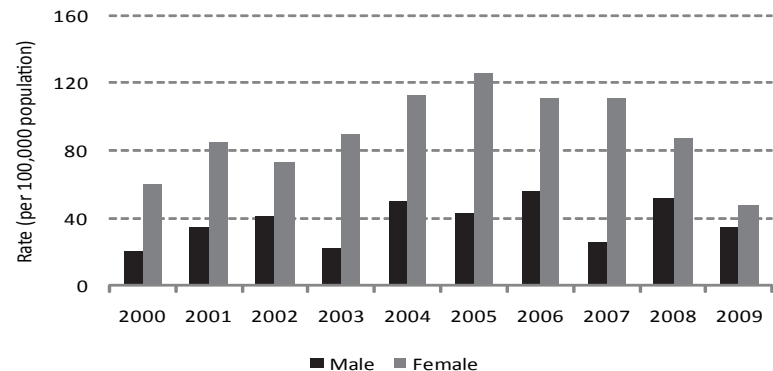
## Gonorrhea

Reference: Tables 10A, 10B, 11A, 11B

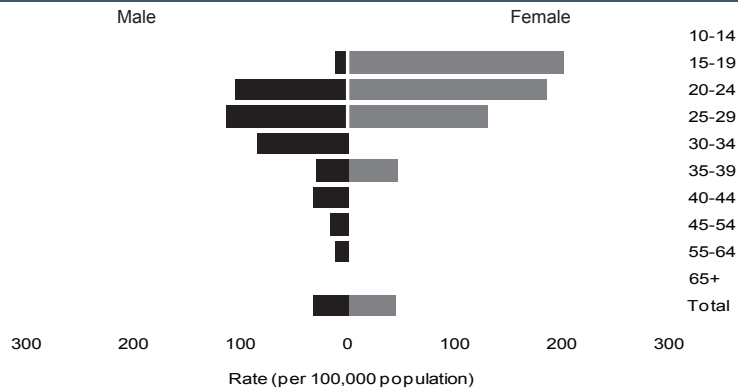
### Total Gonorrhea Rates



### Gonorrhea Rates by Sex, Portland Area IHS



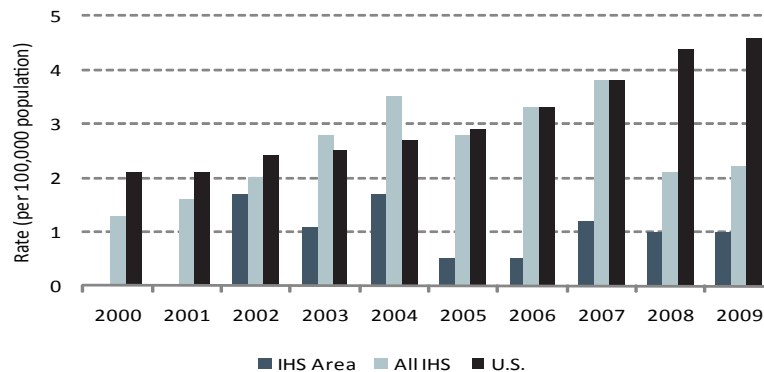
### Gonorrhea Rates by Sex and Age, Portland Area IHS, 2009



## Primary and Secondary Syphilis (P&S)

Reference: Tables 12A, 12B, 13A, 13B

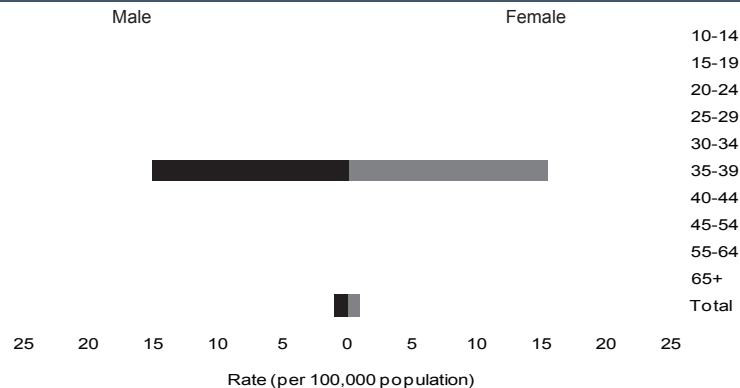
### Total P&S Rates



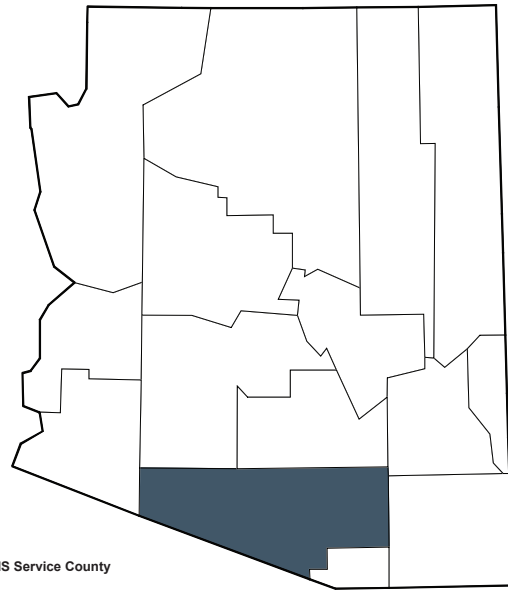
### P&S Rates by Sex, Portland Area IHS



### P&S Rates by Sex and Age, Portland Area IHS, 2009



# Tucson Area IHS



## Geography:

- States: 1 (AZ)
- Counties: AZ (3/15)

## Tribes: 2

## IHS Service Population:

- 2009 (est.): 36,525
- Rank: 12 of 12 Areas

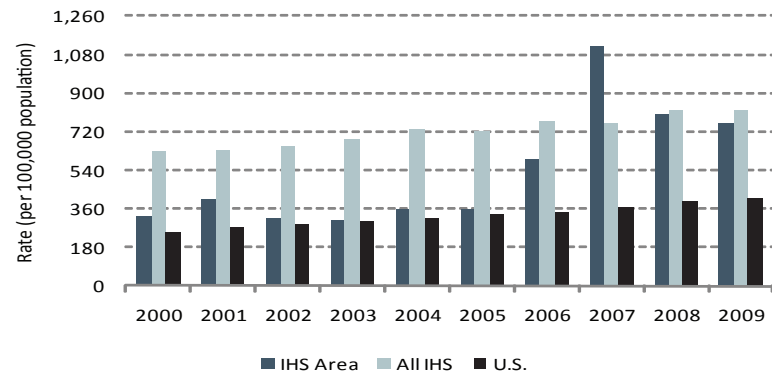
## Notes for the STD graphs:

- IHS rates based on AI/AN living in service counties
- U.S. rates based on all races and ethnicities
- Exclusions: None
- Adjustments: Cases with unknown race are redistributed; cases from partial Tucson Area service counties are redistributed
- IHS data source: NETSS
- U.S. data source: STDSS

## Chlamydia

Reference: Tables 8A, 8B, 9A, 9B

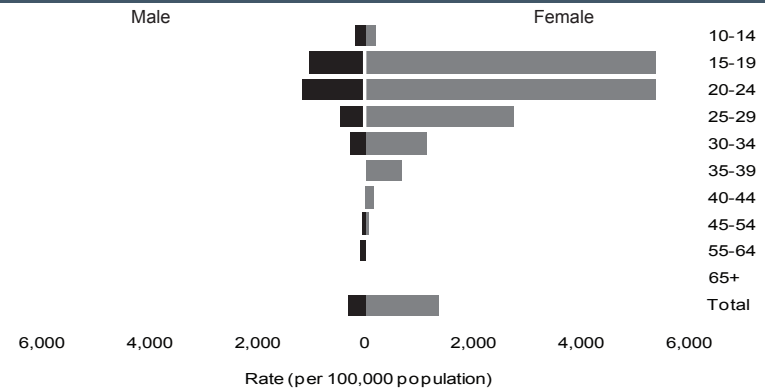
### Total Chlamydia Rates



### Chlamydia Rates by Sex, Tucson Area IHS



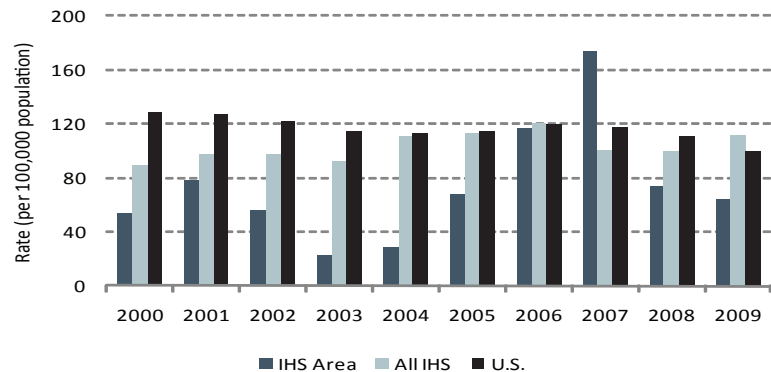
### Chlamydia Rates by Sex and Age, Tucson Area IHS, 2009



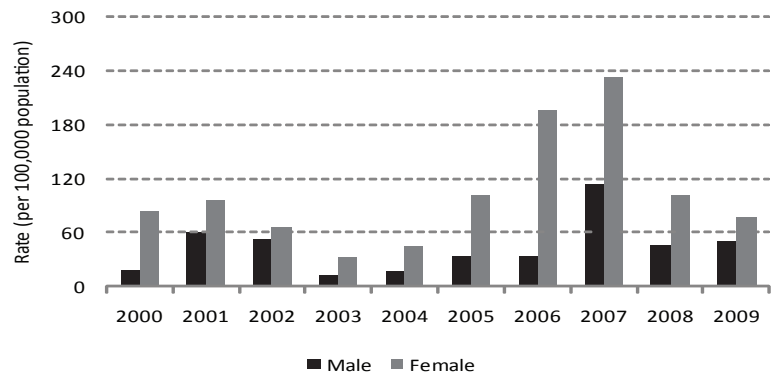
## Gonorrhea

Reference: Tables 10A, 10B, 11A, 11B

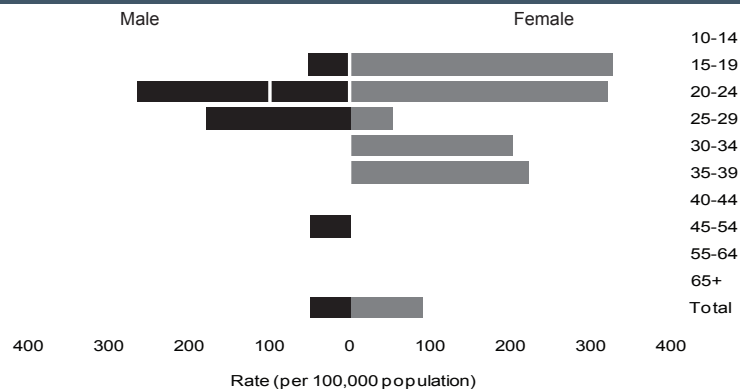
### Total Gonorrhea Rates



### Gonorrhea Rates by Sex, Tucson Area IHS



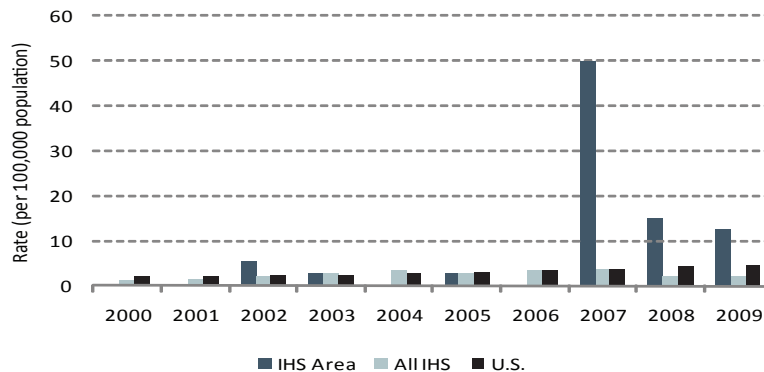
### Gonorrhea Rates by Sex and Age, Tucson Area IHS, 2009



## Primary and Secondary Syphilis (P&S)

Reference: Tables 12A, 12B, 13A, 13B

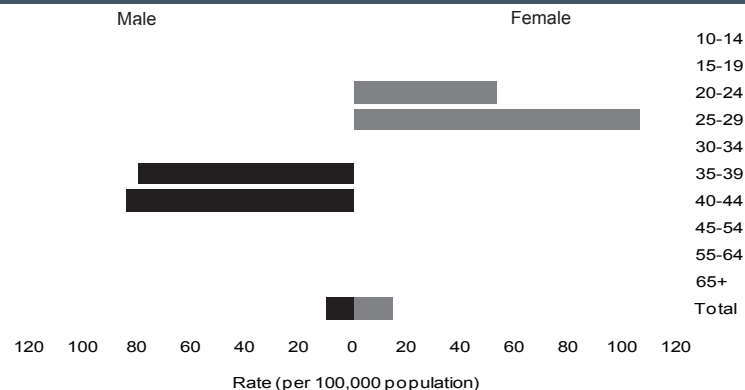
### Total P&S Rates



### P&S Rates by Sex, Tucson Area IHS



### P&S Rates by Sex and Age, Tucson Area IHS, 2009





# **Tables**

**National Tables**

**IHS Area Tables**

# National Tables

**Table 1A Reported STD Cases by Sex: United States, 1984-2009**

Year	Chlamydia			Gonorrhea			Primary and Secondary Syphilis		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
1984	-	-	-	508,725	369,831	878,556	20,576	8,031	28,607
1985	-	-	-	524,563	386,856	911,419	18,994	8,137	27,131
1986	-	-	-	505,862	386,367	892,229	18,782	8,885	27,667
1987	-	-	-	448,365	339,167	787,532	22,785	12,800	35,585
1988	-	-	-	426,626	311,534	738,160	24,616	15,858	40,474
1989	-	-	-	428,300	304,994	733,294	27,052	18,774	45,826
1990	-	-	-	390,235	299,608	690,042	28,490	22,088	50,578
1991	-	-	-	354,469	266,172	621,918	23,599	19,311	42,950
1992	-	-	-	278,067	224,666	502,858	18,062	15,947	34,009
1993	-	-	-	235,198	193,579	444,649	14,092	12,435	26,527
1994	-	-	-	221,807	197,235	419,602	10,672	9,936	20,641
1995	-	-	-	203,647	188,460	392,651	8,764	7,778	16,543
1996	75,484	415,928	492,631	166,576	161,235	328,169	6,011	5,394	11,405
1997	88,598	448,097	537,904	161,940	165,310	327,665	4,660	3,895	8,556
1998	106,671	505,533	614,250	176,529	179,204	356,492	3,909	3,096	7,007
1999	120,430	539,894	662,647	180,524	179,319	360,813	3,835	2,777	6,617
2000	137,957	569,658	709,452	180,701	181,668	363,136	3,532	2,445	5,979
2001	157,304	623,958	783,242	177,194	183,863	361,705	4,134	1,967	6,103
2002	179,585	652,858	834,555	171,504	179,648	351,852	5,267	1,594	6,862
2003	190,244	685,017	877,478	160,106	174,230	335,104	5,956	1,217	7,177
2004	210,396	716,675	929,462	157,303	172,142	330,132	6,722	1,255	7,980
2005	232,781	740,371	976,445	161,117	177,537	339,593	7,383	1,339	8,724
2006	252,630	775,788	1,030,911	170,508	187,033	358,366	8,293	1,458	9,756
2007	280,337	825,660	1,108,374	167,685	187,594	355,991	9,769	1,692	11,466
2008	313,779	893,004	1,210,523	153,103	182,577	336,742	11,255	2,242	13,500
2009	328,783	912,718	1,244,180	137,819	162,568	301,174	11,764	2,232	13,997

Note: Total cases include cases with unknown sex and therefore may not equal male plus female cases. Additional table notes on page 96.



**Table 1B STD Rates per 100,000 Population by Sex: United States, 1984-2009**

Year	Chlamydia			Gonorrhea			Primary and Secondary Syphilis		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
1984	-	-	-	443.4	305.3	372.5	17.9	6.6	12.1
1985	-	-	-	453.0	316.6	383.0	16.4	6.7	11.4
1986	-	-	-	432.7	313.5	371.5	16.1	7.2	11.5
1987	-	-	-	380.0	272.8	325.0	19.3	10.3	14.7
1988	-	-	-	358.2	248.4	301.9	20.7	12.6	16.6
1989	-	-	-	356.1	241.0	297.1	22.5	14.8	18.6
1990	-	-	-	320.6	234.2	276.4	23.4	17.3	20.3
1991	-	-	-	287.2	205.4	245.8	19.1	14.9	17.0
1992	-	-	-	222.0	171.2	196.0	14.4	12.1	13.3
1993	-	-	-	185.2	145.6	171.1	11.1	9.4	10.2
1994	-	-	-	177.3	150.7	163.9	8.3	7.4	7.8
1995	-	-	-	156.4	138.5	147.5	6.7	5.7	6.2
1996	59.7	315.1	190.6	126.4	117.2	121.8	4.6	3.9	4.2
1997	69.1	335.4	205.5	121.3	118.8	120.2	3.5	2.8	3.1
1998	82.2	374.1	231.8	130.6	127.3	129.2	2.9	2.2	2.5
1999	91.6	395.1	247.2	132.0	126.1	129.3	2.8	2.0	2.4
2000	99.6	396.3	251.4	130.5	126.4	128.7	2.6	1.7	2.1
2001	112.3	429.6	274.5	126.5	126.6	126.8	3.0	1.4	2.1
2002	126.8	445.0	289.4	121.1	122.5	122.0	3.7	1.1	2.4
2003	133.0	463.6	301.7	111.9	117.9	115.2	4.2	0.8	2.5
2004	145.6	480.6	316.3	108.8	115.4	112.4	4.7	0.8	2.7
2005	159.4	492.2	329.4	110.4	118.0	114.6	5.1	0.9	2.9
2006	171.3	510.8	344.3	115.6	123.1	119.7	5.6	1.0	3.3
2007	188.6	539.8	367.5	112.8	122.6	118.0	6.6	1.1	3.8
2008	209.3	579.4	398.1	102.1	118.5	110.7	7.5	1.5	4.4
2009	219.3	592.2	409.2	91.9	105.5	99.1	7.8	1.4	4.6

Note: Table notes on page 96.

# National Tables

**Table 2A Chlamydia - Reported Cases by Race/Ethnicity and Sex: United States, 1996-2009**

Year	American Indian/Alaska Native, Non Hispanic			White, Non-Hispanic			Black, Non-Hispanic		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
1996	1,399	7,812	9,210	16,561	105,590	122,151	30,769	130,433	161,202
1997	1,054	7,732	8,786	18,556	112,109	130,667	38,525	145,518	184,043
1998	1,377	9,065	10,443	21,851	126,463	148,314	47,912	186,367	234,279
1999	1,609	9,736	11,345	26,857	145,958	172,815	59,335	224,035	283,370
2000	1,967	10,898	12,865	30,554	154,001	184,555	64,943	231,306	296,248
2001	2,049	11,115	13,164	35,882	170,467	206,348	72,769	246,898	319,667
2002	2,538	12,444	14,981	43,913	190,925	234,839	87,744	276,769	364,513
2003	2,859	13,105	15,964	49,115	210,693	259,808	95,741	294,918	390,660
2004	3,174	13,613	16,787	53,669	220,186	273,854	107,202	314,407	421,608
2005	3,571	14,191	17,762	57,709	223,559	281,268	111,513	294,910	406,423
2006	3,773	15,493	19,267	63,675	237,389	301,064	131,077	342,159	473,235
2007	3,525	14,348	17,872	69,524	250,151	319,675	150,384	374,433	524,817
2008	3,997	15,920	19,917	76,880	265,675	342,555	167,755	408,067	575,822
2009	4,024	15,594	19,618	81,619	272,179	353,798	175,990	417,438	593,428

Year	Hispanic			Asian/Pacific Islander, Non-Hispanic			Total U.S. (Unadjusted)		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
1996	11,073	58,183	69,256	994	5,359	6,353	75,484	415,928	492,631
1997	14,027	65,164	79,191	1,242	5,998	7,240	88,598	448,907	537,904
1998	16,438	70,838	87,276	1,606	7,843	9,448	106,671	505,533	614,250
1999	19,264	84,403	103,667	2,063	9,585	11,648	120,430	539,894	662,647
2000	23,840	98,009	121,849	2,522	10,410	12,932	137,957	569,658	709,452
2001	27,792	107,824	135,617	2,646	10,943	13,590	157,304	623,958	783,242
2002	33,453	124,005	157,468	3,300	12,976	16,276	179,585	652,858	834,555
2003	33,576	128,053	161,629	3,469	13,573	17,042	190,244	685,017	877,478
2004	35,786	128,976	164,762	3,791	13,568	17,358	210,396	716,675	929,462
2005	39,885	136,386	176,271	4,388	13,020	17,408	232,781	740,371	976,445
2006	45,432	153,351	198,783	3,640	13,061	16,701	252,630	775,788	1,030,911
2007	47,389	157,467	204,855	4,223	14,087	18,310	280,337	825,660	1,108,374
2008	54,487	172,306	226,793	4,780	15,493	20,274	313,779	893,004	1,210,523
2009	56,271	174,819	231,090	4,760	15,461	20,221	328,783	912,718	1,244,180

Note: Total cases may not equal male and female cases due to rounding. Additional table notes on page 96.

**Table 2B Chlamydia - Rates per 100,000 Population by Race/Ethnicity and Sex:  
United States, 1996-2009**

Year	American Indian/Alaska Native, Non Hispanic			White, Non Hispanic			Black, Non Hispanic		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
1996	152.0	822.9	492.7	23.3	142.2	84.1	300.1	1,158.9	749.5
1997	108.9	774.8	447.0	24.9	144.4	85.9	367.9	1,270.7	839.5
1998	140.2	895.1	523.4	28.7	159.4	95.4	390.6	1,383.8	910.4
1999	156.5	919.5	543.7	32.6	169.9	102.7	433.6	1,490.7	986.9
2000	183.0	986.1	590.2	35.8	173.1	105.9	449.8	1,459.6	978.2
2001	185.6	978.7	587.8	42.1	192.4	118.7	516.8	1,602.2	1,083.9
2002	221.6	1,056.2	644.8	48.4	202.2	126.9	550.3	1,575.9	1,087.8
2003	244.4	1,087.2	672.2	52.7	217.4	136.7	577.4	1,617.9	1,122.3
2004	268.8	1,117.9	699.9	57.4	226.7	143.6	638.4	1,704.8	1,196.6
2005	305.3	1,174.6	747.0	63.4	236.7	151.7	709.9	1,712.6	1,234.3
2006	314.5	1,250.8	790.1	65.9	236.6	152.8	733.3	1,741.8	1,261.3
2007	291.0	1,146.4	725.7	71.8	248.9	162.0	832.6	1,887.3	1,384.7
2008	321.5	1,240.3	788.3	79.2	263.8	173.2	924.7	2,048.5	1,512.8
2009	323.8	1,214.9	776.5	84.0	270.2	178.8	970.0	2,095.5	1,559.1

Year	Hispanic			Asian/Pacific Islander, Non Hispanic			Total U.S. (Unadjusted)		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
1996	88.5	491.4	284.4	27.3	137.6	84.3	59.7	315.1	190.6
1997	106.0	520.5	307.5	32.2	145.1	90.6	69.1	335.4	205.5
1998	116.8	534.6	319.4	39.0	177.1	110.5	82.2	374.1	231.8
1999	128.8	601.6	357.7	47.0	203.9	128.2	91.6	395.1	247.2
2000	145.7	639.8	384.7	52.1	201.5	129.2	99.6	396.3	251.4
2001	167.9	698.2	423.8	55.8	215.0	138.3	112.3	429.6	274.5
2002	174.3	688.8	423.4	59.1	216.0	140.4	126.8	445.0	289.4
2003	172.3	701.5	428.2	59.4	219.1	141.6	133.0	463.6	301.7
2004	177.1	682.4	421.4	62.9	212.3	139.8	145.6	480.6	316.5
2005	194.9	710.5	444.5	77.0	215.9	148.4	159.4	492.2	329.4
2006	203.0	733.6	459.2	57.0	193.6	127.2	171.3	510.8	344.3
2007	206.4	733.3	461.0	65.0	205.4	137.1	188.6	539.8	367.5
2008	230.2	777.5	494.8	72.4	222.3	149.3	209.3	579.4	398.1
2009	237.7	788.8	504.2	72	221.9	149	219.3	592.2	409.2

Note: Table notes on page 96.

# National Tables

**Table 3A Chlamydia - Reported Cases by Race/Ethnicity, Age Group, and Sex:  
United States, 2009**

Age Group	American Indian/Alaska Native, Non Hispanic			White, Non-Hispanic			Black, Non-Hispanic		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	21	214	235	124	2,355	2,479	1,003	7,550	8,553
15-19	971	5,156	6,127	14,452	98,442	112,894	51,652	177,487	229,139
20-24	1,527	5,517	7,044	32,450	108,326	140,776	62,987	146,159	209,146
25-29	744	2,562	3,306	17,291	38,348	55,639	30,062	52,082	82,144
30-34	371	1,070	1,442	7,333	13,588	20,922	13,867	19,069	32,936
35-39	158	550	708	3,836	5,707	9,543	7,402	7,679	15,082
40-44	102	264	367	2,429	2,629	5,058	4,289	3,360	7,648
45-54	91	196	287	2,719	1,970	4,689	3,582	2,812	6,394
55-64	20	42	61	709	427	1,136	773	628	1,401
65+	7	9	16	190	131	321	175	196	371
All Ages	4,024	15,594	19,618	81,619	272,179	353,798	175,990	417,438	593,428

Age Group	Hispanic			Asian/Pacific Islander, Non-Hispanic			Total U.S. (Adjusted)		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	242	2,098	2,340	8	83	91	1,414	12,520	13,934
15-19	12,231	57,998	70,229	542	3,590	4,132	81,110	349,145	430,255
20-24	20,465	61,771	82,236	1,531	5,443	6,975	121,536	334,382	455,918
25-29	12,080	29,195	41,275	1,065	2,976	4,041	62,721	128,249	190,970
30-34	5,624	12,841	18,465	572	1,490	2,062	28,481	49,325	77,806
35-39	2,761	6,109	8,869	421	845	1,266	14,930	21,450	36,380
40-44	1,526	2,572	4,098	263	476	739	8,796	9,514	18,311
45-54	1,032	1,670	2,701	251	407	658	7,856	7,216	15,072
55-64	188	337	524	68	118	186	1,795	1,579	3,374
65+	60	98	158	33	29	62	475	474	948
All Ages	56,271	174,819	231,090	4,760	15,461	20,221	329,490	914,690	1,244,180

Note: Total cases may not equal male and female cases due to rounding. Additional table notes on page 96.

**Table 3B Chlamydia - Rates per 100,000 Population by Race/Ethnicity, Age Group, and Sex:  
United States, 2009**

Age Group	American Indian/Alaska Native, Non Hispanic			White, Non Hispanic			Black, Non Hispanic		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	21.0	223.8	120.8	2.1	41.4	21.2	64.9	504.0	280.9
15-19	852.8	4,619.3	2,717.5	218.6	1,569.9	876.5	3,007.5	10,629.7	6,764.9
20-24	1,367.0	5,104.4	3,204.8	491.9	1,727.8	1,094.2	4,055.7	9,603.9	6,801.7
25-29	741.6	2,610.5	1,665.8	271.7	614.8	441.5	2,077.3	3,499.7	2,798.5
30-34	456.0	1,319.2	886.8	128.9	241.5	184.9	1,156.3	1,446.9	1,308.4
35-39	194.8	669.1	433.3	59.6	89.5	74.5	597.6	552.0	573.5
40-44	124.5	307.8	218.3	34.9	37.8	36.4	342.6	235.8	285.7
45-54	55.6	109.3	83.7	17.6	12.6	15.1	150.0	100.8	123.5
55-64	17.5	33.4	25.9	5.7	3.3	4.5	51.3	33.4	41.4
65+	8.0	7.6	7.8	1.4	0.7	1.0	14.0	9.8	11.4
All Ages	323.8	1,214.9	776.5	84.0	270.2	178.8	970.0	2,095.5	1,559.1

Age Group	Hispanic			Asian/Pacific Islander, Non Hispanic			Total U.S. (Adjusted)		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	12.1	110.3	60.1	1.9	19.7	10.7	13.8	127.9	69.5
15-19	631.8	3,174.7	1,866.4	123.3	868.0	484.3	735.5	3,329.3	1,999.9
20-24	1,077.8	3,679.7	2,298.7	337.1	1,254.5	785.3	1,120.6	3,273.9	2,165.0
25-29	539.6	1,623.0	1,022.3	199.6	549.9	375.9	573.3	1,234.0	895.2
30-34	260.3	721.2	468.5	96.0	239.0	169.2	286.0	511.7	397.0
35-39	141.6	360.5	243.4	66.7	128.2	98.2	141.3	205.8	173.3
40-44	90.1	170.0	127.8	48.8	83.4	66.5	81.9	88.4	85.1
45-54	41.5	70.0	55.5	27.7	40.5	34.4	36.0	32.0	34.0
55-64	14.0	23.3	18.8	11.2	16.5	14.1	11.0	9.1	10.0
65+	5.4	6.6	6.1	6.3	4.2	5.1	2.9	2.1	2.4
All Ages	237.7	788.8	504.2	72.0	221.9	149.0	219.8	593.4	409.2

Note: Table notes on page 96.

# National Tables

**Table 4A Gonorrhea - Reported Cases by Race/Ethnicity and Sex: United States, 1984-2009**

Year	American Indian/Alaska Native, Non Hispanic			White, Non-Hispanic			Black, Non-Hispanic		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
1984	3,087	3,504	6,590	77,771	68,621	146,393	220,154	155,646	375,799
1985	2,820	3,588	6,407	85,512	83,010	168,522	260,696	188,394	449,091
1986	2,810	3,382	6,192	84,724	90,168	174,892	319,458	230,789	550,246
1987	2,326	2,926	5,252	62,412	73,286	135,698	298,906	210,605	509,511
1988	1,682	2,123	3,805	47,998	58,141	106,139	302,351	208,304	510,655
1989	1,470	1,866	3,336	43,118	52,129	95,248	304,720	204,679	509,398
1990	1,289	1,714	3,004	35,221	48,066	83,287	278,898	197,902	476,800
1991	1,015	1,439	2,454	29,964	41,229	71,193	264,582	179,584	444,165
1992	809	1,183	1,992	23,597	37,981	61,578	224,897	159,656	384,553
1993	701	1,329	2,030	17,220	30,910	48,130	179,659	130,651	310,310
1994	889	1,283	2,172	17,222	33,349	50,571	177,686	134,076	311,762
1995	628	1,095	1,723	16,841	32,251	49,092	152,833	120,096	272,929
1996	684	1,307	1,990	15,768	28,711	44,479	127,059	107,559	234,618
1997	572	1,257	1,829	15,840	28,593	44,432	123,152	109,762	232,914
1998	694	1,628	2,322	18,354	33,227	51,581	141,684	130,199	271,884
1999	660	1,566	2,226	19,295	33,438	52,733	148,437	132,270	280,707
2000	793	1,526	2,319	21,039	33,925	54,964	144,191	129,737	273,928
2001	751	1,689	2,439	22,585	35,738	58,323	140,235	131,636	271,871
2002	905	1,800	2,704	24,429	37,243	61,671	132,498	125,488	257,989
2003	823	1,666	2,489	25,288	39,673	64,961	120,266	116,771	237,038
2004	946	1,912	2,858	25,585	40,665	66,250	116,537	113,306	229,843
2005	1,112	2,113	3,225	27,050	43,159	70,209	117,025	114,050	231,076
2006	1,208	2,189	3,398	27,848	45,353	73,200	125,102	120,753	245,855
2007	850	1,809	2,659	26,209	43,544	69,753	125,010	125,250	250,260
2008	926	1,838	2,764	22,518	39,788	62,306	114,496	123,915	238,410
2009	991	1,925	2,917	21,273	33,688	54,961	101,459	111,706	213,165

Table 4A, Continued

Year	Hispanic			Asian/Pacific Islander, Non-Hispanic			Total U.S. (Unadjusted)		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
1984	24,471	11,640	36,111	1,673	1,108	2,781	508,725	369,831	878,556
1985	28,398	13,407	41,805	1,610	1,118	2,729	524,563	386,856	911,419
1986	30,389	13,375	43,764	1,601	1,143	2,744	505,862	386,367	892,229
1987	24,179	11,787	35,966	1,456	949	2,405	448,365	339,167	787,532
1988	19,679	10,423	30,101	896	725	1,621	426,626	311,534	738,160
1989	15,992	8,555	24,547	849	627	1,476	428,300	304,994	733,294
1990	14,288	8,156	22,444	806	732	1,538	390,235	299,608	680,042
1991	12,175	7,660	19,836	932	870	1,801	354,469	266,172	621,918
1992	10,421	9,198	19,619	753	882	1,635	278,067	224,666	502,858
1993	9,266	9,110	18,375	735	816	1,551	235,198	193,579	444,649
1994	8,551	8,376	16,928	632	1,001	1,633	221,807	197,235	419,602
1995	9,086	8,865	17,951	603	842	1,445	203,647	188,460	392,651
1996	7,716	8,308	16,025	539	812	1,351	166,576	161,235	328,169
1997	8,109	8,560	16,669	655	853	1,508	161,940	165,310	327,665
1998	10,219	10,170	20,390	698	1,194	1,892	176,529	179,204	356,492
1999	10,602	11,318	21,920	925	1,205	2,130	180,524	179,319	360,813
2000	12,030	12,481	24,512	1,609	1,447	3,056	180,701	181,668	363,136
2001	12,624	13,566	26,190	1,348	1,588	2,935	177,194	183,863	361,705
2002	12,822	14,007	26,829	1,196	1,450	2,646	171,504	179,648	351,852
2003	12,922	14,872	27,793	1,171	1,652	2,823	160,106	174,230	335,104
2004	13,360	15,096	28,455	1,205	1,521	2,726	157,303	172,142	330,132
2005	14,374	16,471	30,845	1,602	1,612	3,214	161,117	177,537	339,593
2006	15,460	17,584	33,044	1,290	1,579	2,869	170,508	187,033	358,366
2007	14,729	15,947	30,676	1,221	1,422	2,643	167,685	187,594	355,991
2008	14,339	16,073	30,412	1,327	1,522	2,849	153,103	182,577	336,742
2009	13,229	14,283	27,512	1,242	1,378	2,621	137,819	162,568	301,174

Note: Total cases may not equal male and female cases due to rounding. Additional table notes on page 96.

# National Tables

**Table 4B Gonorrhea - Rates per 100,000 Population by Race/Ethnicity and Sex:  
United States, 1984-2009**

Year	American Indian/Alaska Native, Non Hispanic			White, Non Hispanic			Black, Non Hispanic		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
1984	393.8	435.0	414.7	139.1	116.7	127.6	2,693.4	1,712.4	2,176.9
1985	346.2	429.0	388.2	132.0	121.7	126.7	2,720.9	1,761.3	2,214.7
1986	313.3	367.9	340.9	108.0	109.1	108.6	2,667.6	1,727.0	2,171.5
1987	254.9	312.8	284.2	76.8	85.7	81.4	2,445.7	1,544.9	1,970.7
1988	182.9	225.3	204.4	58.5	67.3	63.1	2,456.5	1,517.6	1,961.5
1989	159.5	197.5	178.8	53.1	61.0	57.1	2,572.0	1,550.3	2,033.5
1990	152.8	197.3	175.3	44.1	57.3	50.8	2,415.0	1,539.6	1,953.9
1991	116.3	160.0	138.5	35.9	47.1	41.7	2,154.6	1,314.5	1,712.2
1992	89.3	126.9	108.4	27.0	41.5	34.4	1,691.9	1,082.1	1,371.1
1993	75.9	139.7	108.2	20.1	34.5	27.5	1,417.2	931.3	1,162.0
1994	93.8	131.5	112.9	20.0	37.0	28.7	1,375.8	938.9	1,146.4
1995	65.1	110.3	88.1	20.1	36.8	28.6	1,209.6	861.1	1,026.7
1996	68.5	127.2	98.3	18.2	31.7	25.1	918.0	703.5	805.4
1997	56.4	120.3	88.8	18.3	31.6	25.1	873.7	705.9	785.7
1998	64.7	147.2	106.6	19.8	34.3	27.2	903.6	749.8	822.8
1999	59.1	136.0	98.1	20.0	33.2	26.7	900.4	725.3	808.4
2000	68.4	128.0	98.6	21.8	33.6	27.8	862.0	702.1	778.1
2001	64.0	140.0	102.6	23.3	35.3	29.4	826.8	703.3	762.0
2002	76.3	147.6	112.5	25.1	36.7	31.0	770.7	662.1	713.7
2003	68.8	135.2	102.5	25.9	39.1	32.6	691.8	610.6	649.3
2004	78.3	153.6	116.5	26.1	40.0	33.2	662.5	586.2	622.5
2005	92.1	169.7	131.5	27.6	42.4	35.1	658.0	584.2	619.4
2006	98.9	173.7	136.9	28.3	44.4	36.5	695.1	611.3	651.2
2007	68.8	142.0	106.0	26.5	42.5	34.7	687.1	627.7	656.0
2008	73.1	140.6	107.4	22.7	38.8	30.9	626.5	618.4	622.3
2009	78.2	147.3	113.3	21.5	32.8	27.2	555.2	557.5	556.4



Table 4B, Continued

Year	Hispanic			Asian/Pacific Islander, Non Hispanic			Total U.S. (Unadjusted)		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
1984	324.8	162.0	245.3	70.1	44.0	56.7	443.4	305.3	372.5
1985	345.4	171.9	260.9	62.0	40.9	51.1	453.0	316.6	383.0
1986	314.8	145.0	231.9	53.7	36.4	44.9	432.7	313.5	371.5
1987	244.0	124.5	185.6	47.6	29.5	38.3	380.0	272.8	325.0
1988	196.0	108.8	153.4	28.8	22.2	25.4	358.2	248.4	301.9
1989	157.9	88.6	124.1	27.4	19.3	23.3	356.1	241.0	297.1
1990	143.4	86.1	115.4	27.6	23.8	25.7	320.6	234.2	276.4
1991	112.5	74.4	93.9	28.9	25.6	27.2	287.2	205.4	245.8
1992	91.2	84.8	88.1	21.6	24.0	22.8	222.0	171.2	196.0
1993	77.9	80.6	79.2	20.3	21.3	20.8	185.2	145.6	141.1
1994	68.7	70.8	69.7	16.7	24.9	20.9	177.3	150.7	163.9
1995	72.3	74.5	73.4	16.0	21.0	18.6	156.4	138.5	147.5
1996	57.9	66.1	61.9	13.5	19.0	16.3	126.4	117.2	121.8
1997	58.1	65.1	61.5	15.7	19.1	17.5	121.3	118.8	120.2
1998	63.7	66.9	65.3	14.4	23.0	18.9	130.6	127.3	129.2
1999	60.8	68.6	64.6	17.4	21.3	19.4	132.0	126.1	129.3
2000	65.5	72.1	68.7	28.9	24.5	26.7	130.5	126.4	128.7
2001	65.8	75.2	70.3	23.4	25.8	24.6	126.5	126.6	126.8
2002	64.1	74.6	69.2	20.0	22.6	21.4	121.1	122.5	122.0
2003	62.7	77.1	69.7	18.9	25.2	22.1	111.9	117.9	115.2
2004	62.6	75.6	68.9	18.8	22.4	20.7	108.8	115.4	112.4
2005	65.3	80.1	72.4	25.8	24.6	25.2	110.4	118.0	114.6
2006	67.4	82.2	74.6	18.9	21.9	20.4	115.6	123.1	119.7
2007	62.6	72.6	67.4	17.6	19.4	18.5	112.8	122.6	118.0
2008	59.1	70.8	64.8	18.8	20.5	19.7	102.1	118.5	110.7
2009	54.5	63	58.6	17.6	18.5	18.1	91.9	105.5	99.1

Note: Table notes on page 96.

# National Tables

**Table 5A Gonorrhea - Reported Cases by Race/Ethnicity, Age Group, and Sex:  
United States, 2009**

Age Group	American Indian/Alaska Native, Non Hispanic			White, Non Hispanic			Black, Non Hispanic		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	4	20	25	31	314	346	428	1,942	2,369
15-19	165	562	726	2,317	10,000	12,317	22,751	43,899	66,650
20-24	279	628	906	5,447	11,919	17,366	33,947	39,021	72,968
25-29	197	316	513	4,202	5,656	9,858	18,670	15,351	34,021
30-34	121	175	296	2,555	2,638	5,193	9,996	6,162	16,158
35-39	79	103	183	1,921	1,521	3,442	5,963	2,678	8,641
40-44	51	56	107	1,748	788	2,536	3,938	1,290	5,227
45-54	64	48	112	2,231	660	2,891	4,395	1,010	5,405
55-64	26	10	35	611	130	742	1,087	153	1,239
65+	4	2	6	198	33	231	208	54	262
All Ages	991	1,925	2,917	21,273	33,688	54,961	101,459	111,706	213,165

Age Group	Hispanic			Asian/Pacific Islander, Non Hispanic			Total U.S. (Adjusted)		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	44	190	234	1	15	16	509	2,482	2,991
15-19	2,222	4,764	6,986	118	419	537	27,573	59,648	87,221
20-24	4,198	4,721	8,919	325	425	750	44,190	56,712	100,902
25-29	2,811	2,284	5,096	263	234	498	26,142	23,840	49,981
30-34	1,602	1,127	2,729	165	128	292	14,437	10,232	24,669
35-39	946	598	1,544	140	55	195	9,049	4,957	14,006
40-44	701	290	991	100	35	135	6,538	2,459	8,997
45-54	562	204	766	98	44	142	7,352	1,965	9,317
55-64	106	51	157	23	21	44	1,853	364	2,217
65+	27	17	45	9	2	10	447	108	555
All Ages	13,229	14,283	27,512	1,242	1,378	2,621	138,187	162,987	301,174

Note: Total cases may not equal male and female cases due to rounding. Additional table notes on page 96.

**Table 5B Gonorrhea - Rates per 100,000 Population by Race/Ethnicity, Age Group, and Sex:  
United States, 2009**

Age Group	American Indian/Alaska Native, Non Hispanic			White, Non Hispanic			Black, Non Hispanic		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	4.3	20.9	12.5	0.5	5.4	2.9	27.5	128.7	77.3
15-19	142.4	494.9	316.9	34.4	156.7	93.9	1,316.4	2,613.8	1,955.8
20-24	244.4	570.0	404.3	80.8	186.4	132.2	2,168.9	2,548.7	2,356.7
25-29	191.5	315.3	252.7	64.5	88.6	76.4	1,279.1	1,024.9	1,150.4
30-34	145.0	211.3	178.1	43.9	45.9	44.9	826.3	464.6	637.2
35-39	95.6	123.2	109.5	29.2	23.4	26.3	477.0	191.4	326.1
40-44	60.5	64.1	62.4	24.6	11.1	17.9	312.1	90.0	194.0
45-54	38.4	26.1	32.0	14.1	4.1	9.1	182.8	36.0	103.8
55-64	22.5	7.5	14.6	4.9	1.0	2.9	71.7	8.1	36.4
65+	4.6	1.5	2.9	1.5	0.2	0.7	16.6	2.7	8.0
All Ages	78.2	147.3	113.3	21.5	32.8	27.2	555.2	557.5	556.4

Age Group	Hispanic			Asian/Pacific Islander, Non Hispanic			Total U.S. (Adjusted)		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	2.2	9.8	5.9	0.3	3.4	1.8	5.0	25.3	14.9
15-19	112.2	254.8	181.4	25.2	94.8	59.0	250.0	568.8	405.4
20-24	215.7	274.9	243.5	67.5	92.2	79.6	407.5	555.3	479.1
25-29	122.4	123.9	123.1	46.7	41.0	43.8	238.9	229.4	234.3
30-34	72.3	61.8	67.5	26.3	19.5	22.8	145.0	106.2	125.9
35-39	47.4	34.5	41.4	21.1	7.9	14.4	85.6	47.6	66.7
40-44	40.4	18.8	30.2	17.5	5.8	11.5	60.8	22.9	41.8
45-54	22.1	8.3	15.4	10.1	4.1	6.9	33.6	8.7	21.0
55-64	7.7	3.4	5.5	3.5	2.7	3.1	11.4	2.1	6.6
65+	2.4	1.1	1.7	1.5	0.2	0.8	2.7	0.5	1.4
All Ages	54.5	63.0	58.6	17.6	18.5	18.1	92.2	105.7	99.1

Note: Table notes on page 96.

# National Tables

**Table 6A Primary and Secondary Syphilis - Reported Cases by Race/Ethnicity and Sex:  
United States, 1984-2009**

Year	American Indian/Alaska Native, Non Hispanic			White, Non-Hispanic			Black, Non-Hispanic		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
1984	99	60	158	4,254	848	5,102	7,185	3,893	11,078
1985	130	80	210	4,216	1,115	5,331	8,120	4,394	12,514
1986	77	65	141	3,651	1,218	4,869	10,666	6,255	16,921
1987	64	56	120	3,395	1,625	5,020	15,144	9,691	24,835
1988	36	40	76	2,929	1,656	4,585	17,808	12,584	30,392
1989	42	34	76	2,902	1,870	4,772	21,093	15,647	36,740
1990	50	57	107	2,979	1,909	4,889	22,855	18,814	41,669
1991	29	40	68	2,161	1,494	3,656	19,404	16,679	36,083
1992	25	21	47	1,620	1,235	2,855	15,125	13,900	29,025
1993	19	18	38	1,234	1,044	2,277	11,841	10,937	22,778
1994	19	25	45	967	910	1,877	9,158	8,751	17,909
1995	24	23	48	798	718	1,515	7,464	6,731	14,195
1996	22	21	42	606	593	1,200	5,017	4,581	9,598
1997	23	18	41	523	453	975	3,785	3,255	7,040
1998	29	28	56	536	400	936	3,009	2,524	5,534
1999	18	36	54	598	428	1,026	2,788	2,163	4,950
2000	26	26	52	698	385	1,083	2,369	1,864	4,233
2001	49	41	90	1,138	249	1,387	2,286	1,527	3,813
2002	27	24	51	2,108	217	2,325	2,226	1,195	3,421
2003	50	19	69	2,783	227	3,010	2,005	805	2,811
2004	42	35	77	2,947	256	3,203	2,452	814	3,266
2005	40	20	60	3,254	270	3,524	2,764	850	3,615
2006	57	24	80	3,443	301	3,744	3,253	962	4,215
2007	52	33	85	3,668	381	4,049	4,170	1,104	5,274
2008	40	18	58	3,983	486	4,469	5,093	1,514	6,607
2009	49	12	61	3,831	425	4,256	5,703	1,632	7,335

Table 6A, Continued

Year	Hispanic			Asian/Pacific Islander, Non Hispanic			Total U.S. (Unadjusted)		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
1984	2,668	632	3,301	119	36	155	20,576	8,031	28,607
1985	3,053	847	3,899	98	30	129	18,994	8,137	27,131
1986	3,703	988	4,691	98	22	120	18,782	8,885	27,667
1987	4,138	1,283	5,421	98	35	133	22,785	12,800	35,585
1988	3,433	1,341	4,774	77	35	112	24,616	15,858	40,474
1989	2,791	1,100	3,892	93	38	131	27,052	18,774	45,826
1990	2,337	1,087	3,424	75	37	112	28,490	22,088	50,578
1991	1,795	1,013	2,808	68	45	113	23,599	19,311	42,950
1992	1,194	783	1,977	64	43	107	18,062	15,947	34,009
1993	918	449	1,367	58	27	86	14,092	12,435	26,527
1994	555	287	842	49	25	74	10,672	9,936	20,641
1995	430	269	699	18	38	56	8,764	7,778	16,543
1996	346	172	518	29	24	52	6,011	5,394	11,405
1997	315	145	459	15	17	33	4,660	3,895	8,556
1998	319	138	457	26	10	36	3,909	3,096	7,007
1999	399	139	538	30	13	43	3,835	2,777	6,617
2000	405	162	567	29	8	37	3,532	2,445	5,979
2001	607	146	754	51	4	55	4,134	1,967	6,103
2002	823	147	971	83	11	94	5,267	1,594	6,862
2003	1,001	159	1,160	119	8	127	5,956	1,217	7,177
2004	1,142	138	1,280	142	11	153	6,722	1,255	7,980
2005	1,182	188	1,370	145	11	156	7,383	1,339	8,724
2006	1,381	162	1,543	163	10	173	8,293	1,458	9,756
2007	1,720	167	1,887	164	7	171	9,769	1,692	11,466
2008	1,931	214	2,146	211	9	220	11,255	2,242	13,500
2009	1,965	147	2,112	210	15	225	11,764	2,232	13,997

Note: Total cases may not equal male and female cases due to rounding. Additional table notes on page 97.

# National Tables

**Table 6B Primary and Secondary Syphilis - Rates per 100,000 Population by Race/Ethnicity and Sex: United States, 1984-2009**

Year	American Indian/Alaska Native, Non Hispanic			White, Non Hispanic			Black, Non Hispanic		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
1984	11.7	6.9	9.3	6.5	1.2	3.8	78.1	38.0	57.0
1985	14.9	8.9	11.8	5.6	1.4	3.5	73.0	35.2	53.0
1986	8.3	6.8	7.5	4.4	1.4	2.9	85.1	44.5	63.6
1987	6.8	5.8	6.3	3.8	1.7	2.8	111.1	63.4	85.9
1988	3.8	4.1	4.0	3.3	1.8	2.5	130.9	82.6	105.4
1989	4.4	3.5	3.9	3.3	2.0	2.6	154.0	102.0	126.5
1990	5.7	6.3	6.0	3.3	2.0	2.6	166.0	122.1	142.8
1991	3.2	4.3	3.7	2.4	1.6	2.0	138.0	106.0	121.1
1992	2.7	2.2	2.5	1.7	1.3	1.5	104.2	85.8	94.5
1993	2.0	1.9	1.9	1.3	1.1	1.2	79.9	66.2	72.7
1994	2.0	2.5	2.2	1.0	0.9	1.0	60.6	52.0	56.1
1995	2.4	2.3	2.3	0.8	0.7	0.8	48.5	39.3	43.7
1996	2.1	1.9	2.0	0.6	0.6	0.6	32.1	26.4	29.1
1997	2.1	1.7	1.9	0.5	0.5	0.5	23.8	18.4	20.9
1998	2.6	2.5	2.5	0.6	0.4	0.5	18.6	14.1	16.2
1999	1.7	3.1	2.4	0.6	0.4	0.5	16.9	11.9	14.3
2000	2.2	2.2	2.2	0.7	0.4	0.5	14.2	10.1	12.0
2001	4.2	3.4	3.8	1.2	0.2	0.7	13.5	8.2	10.7
2002	2.3	1.9	2.1	2.2	0.2	1.2	13.0	6.3	9.5
2003	4.2	1.5	2.8	2.8	0.2	1.5	11.5	4.2	7.7
2004	3.5	2.8	3.1	3.0	0.3	1.6	13.9	4.2	8.8
2005	3.3	1.6	2.4	3.3	0.3	1.8	15.5	4.4	9.7
2006	4.7	1.9	3.2	3.5	0.3	1.9	18.1	4.9	11.2
2007	4.2	2.6	3.4	3.7	0.4	2.0	22.9	5.5	13.8
2008	3.1	1.4	2.3	4.0	0.5	2.2	27.9	7.6	17.2
2009	3.9	0.9	2.4	3.9	0.4	2.1	31.3	8.2	19.2

Table 6B, Continued

Year	Hispanic			Asian/Pacific Islander, Non Hispanic			Total U.S. (Unadjusted)		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
1984	34.2	8.5	21.6	4.8	1.4	3.0	17.9	6.8	12.1
1985	32.3	9.3	21.0	3.3	1.0	2.1	16.4	6.7	11.4
1986	35.6	9.8	22.9	3.1	0.7	1.9	16.1	7.2	11.5
1987	37.6	12.1	25.1	2.9	1.0	1.9	19.3	10.3	14.7
1988	30.9	12.5	21.9	2.2	1.0	1.6	20.7	12.6	16.6
1989	24.8	10.1	17.6	2.7	1.0	1.8	22.5	14.8	18.6
1990	20.3	9.8	15.2	2.2	1.0	1.6	23.4	17.3	20.3
1991	15.0	8.8	11.9	1.9	1.2	1.5	19.1	14.9	17.0
1992	9.5	6.5	8.0	1.7	1.0	1.3	14.4	12.1	13.3
1993	7.0	3.6	5.3	1.4	0.6	1.0	11.1	8.4	10.2
1994	4.0	2.2	3.1	1.1	0.6	0.8	8.3	7.4	7.8
1995	3.0	2.0	2.5	0.4	0.8	0.6	6.7	5.7	6.2
1996	2.3	1.2	1.8	0.6	0.5	0.5	4.6	3.9	4.2
1997	2.0	1.0	1.5	0.3	0.3	0.3	3.5	2.8	3.1
1998	1.9	0.9	1.4	0.5	0.2	0.3	2.9	2.2	2.5
1999	2.3	0.8	1.6	0.6	0.2	0.4	2.8	2.0	2.4
2000	2.2	0.9	1.6	0.5	0.1	0.3	2.6	1.7	2.1
2001	3.2	0.8	2.0	0.9	0.1	0.5	3.0	1.4	2.1
2002	4.1	0.8	2.5	1.4	0.2	0.8	3.7	1.1	2.4
2003	4.9	0.8	2.9	1.9	0.1	1.0	4.2	0.8	2.5
2004	5.4	0.7	3.1	2.2	0.2	1.2	4.7	0.8	2.7
2005	5.4	0.9	3.2	2.2	0.2	1.1	5.1	0.9	2.9
2006	6.0	0.8	3.5	2.4	0.1	1.2	5.6	1.0	3.3
2007	7.3	0.8	4.2	2.4	0.1	1.2	6.6	1.1	3.8
2008	8.0	0.9	4.6	3.0	0.1	1.5	7.5	1.5	4.4
2009	8.1	0.6	4.5	3.0	0.2	1.6	7.8	1.4	4.6

Note: Table notes on page 97.

# National Tables

**Table 7A Primary and Secondary Syphilis - Reported Cases by Race/Ethnicity, Age Group, and Sex: United States, 2009**

Age Group	American Indian/Alaska Native, Non Hispanic			White, Non-Hispanic			Black, Non-Hispanic		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	0	0	0	0	1	1	3	13	16
15-19	2	1	3	70	37	108	489	286	774
20-24	10	2	12	360	80	440	1,470	452	1,922
25-29	10	3	13	452	64	516	1,152	284	1,436
30-34	7	2	9	469	58	527	723	206	929
35-39	9	2	11	531	62	592	557	114	671
40-44	5	0	5	694	43	737	499	111	610
45-54	3	2	5	931	71	1,003	625	130	755
55-64	1	0	1	276	9	286	156	28	184
65+	0	0	0	48	0	48	29	7	36
All Ages	49	12	61	3,831	425	4,256	5,703	1,632	7,335

Age Group	Hispanic			Asian/Pacific Islander, Non-Hispanic			Total U.S. (Adjusted)		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	1	1	2	0	0	0	4	15	19
15-19	92	19	111	8	1	9	661	344	1,005
20-24	366	34	400	35	2	37	2,242	570	2,812
25-29	381	22	403	32	3	35	2,028	377	2,405
30-34	327	19	346	43	2	45	1,571	286	1,857
35-39	269	22	290	43	4	47	1,409	203	1,612
40-44	256	12	268	22	1	23	1,476	167	1,643
45-54	229	12	241	26	2	28	1,815	218	2,033
55-64	38	5	43	2	0	2	475	42	517
65+	6	0	6	0	0	0	83	7	90
All Ages	1,965	147	2,112	210	15	225	11,765	2,232	13,997

Note: Total cases may not equal male and female cases due to rounding. Additional table notes on page 97.



**Table 7B Primary and Secondary Syphilis - Rates per 100,000 Population by Race/Ethnicity, Age Group, and Sex: United States, 2009**

Age Group	American Indian/Alaska Native, Non Hispanic			White, Non Hispanic			Black, Non Hispanic		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	0.5
15-19	1.8	0.9	1.3	1.1	0.6	0.8	28.3	17.1	22.8
20-24	9.1	1.9	5.5	5.4	1.3	3.4	94.2	29.6	62.2
25-29	10.1	3.1	6.6	7.0	1.0	4.0	79.2	19.0	48.7
30-34	8.8	2.5	5.7	8.1	1.0	4.6	59.9	15.5	36.7
35-39	11.4	2.5	6.9	8.1	1.0	4.6	44.6	8.2	25.4
40-44	6.3	0.0	3.1	9.9	0.6	5.2	39.6	7.7	22.7
45-54	1.9	1.1	1.5	6.0	0.4	3.2	26.0	4.7	14.5
55-64	0.9	0.0	0.4	2.2	0.1	1.1	10.3	1.5	5.4
65+	0.0	0.0	0.0	0.4	0.0	0.2	2.3	0.3	1.1
All Ages	3.9	0.9	2.4	3.9	0.4	2.1	31.3	8.2	19.2

Age Group	Hispanic			Asian/Pacific Islander, Non Hispanic			Total U.S. (Adjusted)		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.1
15-19	4.7	1.0	2.9	1.7	0.2	1.0	6.0	3.3	4.7
20-24	18.9	2.0	11.0	7.2	0.4	3.9	20.7	5.6	13.4
25-29	16.7	1.2	9.8	5.7	0.5	3.1	18.5	3.6	11.3
30-34	14.8	1.0	8.6	6.8	0.3	3.5	15.8	3.0	9.5
35-39	13.5	1.2	7.8	6.5	0.6	3.5	13.3	1.9	7.7
40-44	14.8	0.8	8.2	3.8	0.2	2.0	13.7	1.6	7.6
45-54	9.0	0.5	4.9	2.7	0.2	1.4	8.3	1.0	4.6
55-64	2.8	0.3	1.5	0.3	0.0	0.1	2.9	0.2	1.5
65+	0.6	0.0	0.2	0.0	0.0	0.0	0.5	0.0	0.2
All Ages	8.1	0.6	4.5	3.0	0.2	1.6	7.8	1.4	4.6

Note: Table notes on page 97.

# IHS Area Tables

**Table 8A** Chlamydia - Reported Cases by Sex - Indian Health Service Areas (American Indians and Alaska Natives) and the United States (All Races), 1998-2009

Year	Aberdeen			Alaska			Albuquerque			Bemidji		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1998	258	886	1,144	134	747	881	0	1	1	46	299	345
1999	232	944	1,176	157	804	961	43	301	344	47	398	445
2000	295	957	1,252	229	977	1,206	56	336	392	68	405	473
2001	295	973	1,268	218	1,046	1,264	59	390	449	82	481	563
2002	346	1,136	1,482	376	1,237	1,613	73	496	569	53	416	469
2003	475	1,418	1,893	414	1,384	1,798	88	498	586	76	558	635
2004	481	1,509	1,989	436	1,358	1,793	64	351	416	100	605	704
2005	490	1,385	1,874	560	1,557	2,117	54	176	230	125	598	722
2006	420	1,420	1,840	552	1,750	2,302	66	295	361	86	625	711
2007	391	1,332	1,723	590	1,804	2,394	97	427	524	102	593	695
2008	424	1,652	2,077	633	1,850	2,483	84	411	494	107	599	706
2009	454	1,731	2,185	723	1,891	2,614	95	426	521	114	577	691

Year	Billings			California			Nashville			Navajo		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1998	5	54	59				45	140	185	84	707	791
1999	8	58	66				43	154	196	131	1,039	1,170
2000	175	524	699				24	203	227	201	1,254	1,455
2001	237	673	910				40	204	245	177	1,107	1,284
2002	323	844	1,167	67	209	276	43	258	301	218	1,130	1,347
2003	271	769	1,040	70	269	339	54	272	325	284	1,314	1,598
2004	264	692	956	68	255	322	55	352	407	385	1,651	2,036
2005	204	589	793	89	268	358	62	353	414	374	1,432	1,806
2006	248	637	885	61	288	350	161	456	618	375	1,659	2,034
2007	215	580	795	75	324	398	71	320	391	365	1,501	1,866
2008	289	730	1,018	83	321	404	78	349	428	407	1,696	2,103
2009	278	697	975	80	267	348	77	411	488	403	1,605	2,008

Table 8A, Continued

Year	Oklahoma City			Phoenix			Portland			Tucson		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1998	95	998	1,092	96	1,041	1,136	102	554	656	7	92	98
1999	90	939	1,029	124	967	1,090	103	607	711	6	86	93
2000	103	931	1,034	159	1,218	1,376	109	625	734	4	104	108
2001	106	1,173	1,279	148	1,056	1,204	115	655	770	18	121	139
2002	111	1,198	1,310	196	1,288	1,485	137	627	764	9	102	111
2003	126	1,112	1,238	220	1,128	1,348	138	778	916	17	95	112
2004	134	976	1,110	327	1,462	1,790	154	851	1,005	12	114	126
2005	199	1,288	1,487	311	1,442	1,753	174	879	1,053	21	110	131
2006	222	1,299	1,521	270	1,509	1,779	150	807	957	28	184	212
2007	241	1,335	1,576	269	1,473	1,743	179	808	987	77	328	405
2008	299	1,681	1,980	367	1,650	2,017	240	980	1,219	54	270	323
2009	310	1,600	1,910	319	1,575	1,894	217	1,043	1,261	55	253	307

Year	Total IHS			Total U.S. (Unadjusted)		
	Male	Female	Total	Male	Female	Total
1998	872	5,519	6,388	106,671	505,533	614,250
1999	984	6,297	7,281	120,430	539,894	662,647
2000	1,423	7,534	8,956	137,957	569,658	709,452
2001	1,495	7,879	9,375	157,304	623,958	783,242
2002	1,952	8,941	10,894	179,585	652,858	834,555
2003	2,233	9,595	11,828	190,244	685,017	877,478
2004	2,480	10,176	12,654	210,396	716,675	929,462
2005	2,663	10,077	12,738	232,781	740,371	976,445
2006	2,639	10,929	13,570	252,630	775,788	1,030,911
2007	2,672	10,825	13,497	280,337	825,660	1,108,374
2008	3,065	12,189	15,252	313,779	893,004	1,210,523
2009	3,125	12,076	15,202	328,783	912,718	1,244,180

Note: Total cases may not equal male and female cases due to rounding. Additional table notes on page 97. \*Male or female case counts between 1 and 4 (with corresponding totals).

# IHS Area Tables

**Table 8B** Chlamydia - Rates per 100,000 Population by Sex - Indian Health Service Areas (American Indians and Alaska Natives) and the United States (All Races), 1998-2009

Year	Aberdeen			Alaska			Albuquerque			Bemidji		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1998	554.8	1,814.3	1,199.9	256.8	1,441.8	847.2	0.0	30.8	15.5	150.5	969.2	561.7
1999	485.1	1,881.7	1,200.1	295.6	1,528.3	908.9	103.2	673.8	398.4	143.1	1,200.6	674.3
2000	598.3	1,854.9	1,240.8	424.3	1,828.9	1,123.0	129.8	725.6	438.2	198.5	1,177.7	689.1
2001	596.2	1,872.6	1,250.0	401.3	1,939.4	1,167.6	136.6	838.9	500.7	154.5	905.3	530.0
2002	694.5	2,166.9	1,449.5	685.7	2,275.1	1,477.1	155.8	985.9	585.6	151.0	1,175.2	665.3
2003	946.9	2,693.6	1,841.3	740.1	2,503.3	1,616.5	195.4	1,027.4	626.8	141.7	1,034.0	590.2
2004	938.3	2,786.7	1,886.8	774.3	2,435.0	1,599.8	137.5	697.4	429.4	184.7	1,113.2	649.0
2005	943.9	2,533.4	1,758.2	978.0	2,756.6	1,861.2	113.4	341.0	231.7	232.7	1,114.2	672.3
2006	817.4	2,636.2	1,748.3	984.1	3,160.8	2,065.4	140.1	579.0	368.1	157.0	1,135.3	647.4
2007	766.8	2,483.5	1,646.9	1,055.2	3,250.5	2,148.8	202.9	828.3	527.4	186.3	1,077.9	633.2
2008	799.5	2,963.3	1,909.4	1,123.7	3,319.6	2,215.7	165.8	753.7	469.6	186.1	1,038.8	613.1
2009	856.1	3,105.0	2,008.6	1,283.4	3,393.2	2,332.6	187.5	781.2	495.3	198.3	1,000.7	600.1

Year	Billings			California			Nashville			Navajo		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1998	131.3	1,418.4	774.9				210.3	652.8	431.8	138.5	1,117.6	638.5
1999	202.3	1,462.8	833.4				146.8	525.3	334.5	124.1	936.7	540.5
2000	606.6	1,781.1	1,199.6				59.0	510.4	282.2	188.6	1,116.4	664.7
2001	816.2	2,270.0	1,550.7				96.2	501.9	298.0	164.3	972.1	579.5
2002	1,094.9	2,796.0	1,955.2	79.4	249.9	164.2	80.7	491.4	284.5	197.1	965.3	591.6
2003	898.3	2,484.4	1,701.5	81.8	316.0	198.6	99.5	511.4	302.5	252.4	1,102.9	689.8
2004	875.9	2,241.4	1,566.9	77.7	292.0	184.1	98.2	641.1	367.0	346.3	1,400.6	888.8
2005	673.0	1,875.4	1,284.9	99.3	300.4	200.2	111.3	645.9	375.1	330.4	1,189.5	773.2
2006	813.0	2,030.4	1,430.3	66.0	312.1	189.6	273.2	787.3	528.9	340.0	1,421.8	896.1
2007	705.4	1,872.4	1,293.6	80.6	347.0	213.5	118.4	540.5	328.1	342.7	1,328.9	850.3
2008	915.1	2,268.3	1,596.5	84.0	324.4	204.2	121.2	548.2	334.4	373.3	1,462.2	934.6
2009	880.3	2,165.8	1,529.1	80.9	269.8	175.9	119.7	645.6	381.3	369.6	1,383.8	892.4

Table 8B, Continued

Year	Oklahoma City			Phoenix			Portland			Tucson		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1998	63.1	639.4	356.1	121.8	1,281.4	709.9	123.0	660.3	393.2	46.1	576.7	314.7
1999	58.5	588.2	328.1	151.2	1,146.7	655.3	121.1	704.4	415.3	38.4	524.2	290.4
2000	66.1	576.6	325.8	186.8	1,390.2	796.7	125.6	711.2	420.2	24.7	612.1	325.5
2001	67.8	725.1	402.1	166.4	1,151.0	666.2	131.2	738.8	436.8	106.8	681.2	401.5
2002	70.5	736.0	409.2	208.4	1,323.7	776.0	155.1	701.8	430.0	52.1	559.0	312.6
2003	79.8	680.8	385.4	226.6	1,121.1	681.9	154.6	862.1	510.2	95.9	511.2	308.5
2004	84.0	590.8	341.8	337.3	1,459.9	908.2	171.3	940.8	557.3	69.5	633.7	357.4
2005	123.6	770.7	453.1	307.0	1,376.7	850.9	191.0	961.3	576.8	116.4	586.5	356.0
2006	138.2	775.5	463.5	268.3	1,447.2	868.2	163.9	879.5	522.2	159.0	998.8	588.3
2007	151.0	805.5	484.4	254.2	1,344.9	809.4	194.3	870.1	533.5	435.9	1,771.6	1,119.4
2008	182.1	987.2	592.0	318.6	1,389.5	862.2	243.2	987.4	615.8	273.4	1,307.9	799.7
2009	188.8	939.6	571.1	276.9	1,326.3	809.6	219.9	1,050.9	637.0	278.5	1,225.6	760.1

Year	Total IHS			Total U.S. (Unadjusted)					
	Male	Female	Total	Male	Female	Total			
1998				159.8	984.8	577.5	82.2	374.1	231.8
1999				151.2	938.0	550.7	91.6	395.1	247.2
2000				203.1	1,044.7	629.8	99.6	396.3	251.4
2001				205.3	1,051.1	634.4	112.3	429.6	274.5
2002				237.6	1,059.9	654.3	126.8	445.0	289.4
2003				263.0	1,100.9	687.4	133.0	463.6	301.7
2004				289.5	1,157.2	728.9	145.6	480.6	316.3
2005				305.8	1,127.0	721.7	159.4	492.2	329.4
2006				302.7	1,220.5	767.8	171.3	510.8	344.3
2007				305.5	1,204.3	761.0	188.6	539.8	367.5
2008				333.5	1,292.1	818.9	209.3	579.4	398.1
2009				340.0	1,280.1	816.2	219.3	592.2	409.2

Note: Table notes on page 97.

# IHS Area Tables

**Table 9A** Chlamydia - Reported Cases by Sex and Age Group - Indian Health Service Areas (American Indians and Alaska Natives) and the United States (All Races), 2009

Age Group	Aberdeen			Alaska			Albuquerque			Bemidji		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	0	12	12	2	19	21	0	3	3	0	11	11
15-19	113	523	636	137	600	737	13	76	89	33	231	264
20-24	165	575	740	281	713	994	26	138	164	46	210	256
25-29	84	255	339	148	298	446	13	73	86	15	96	111
30-34	28	97	125	86	127	213	14	46	60	10	26	36
35-39	10	32	42	29	66	95	6	23	29	5	16	21
40-44	7	23	30	15	36	51	3	10	13	4	1	5
45-54	4	6	10	20	34	54	1	6	7	0	3	3
55-64	3	3	6	6	7	13	0	1	1	1	0	1
65+	0	1	1	1	0	1	0	0	0	0	0	0
All Ages	415	1,527	1,942	725	1,900	2,625	76	376	452	114	594	708

Age Group	Billings			California			Nashville			Navajo		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	2	18	20	0	4	4	1	8	9	2	21	23
15-19	87	300	387	17	82	99	18	156	174	69	361	430
20-24	115	281	396	34	116	150	35	159	194	130	524	654
25-29	56	98	154	11	36	47	13	50	63	85	337	422
30-34	20	45	65	8	16	24	7	26	33	42	137	179
35-39	10	17	27	5	5	10	1	4	5	21	86	107
40-44	6	3	9	4	4	8	1	7	8	16	41	57
45-54	5	4	9	0	2	2	0	3	3	16	30	46
55-64	0	1	1	0	0	0	0	0	0	2	10	12
65+	0	1	1	0	0	0	0	0	0	1	1	2
All Ages	301	768	1,069	79	265	344	76	413	489	387	1,551	1,938

Table 9A, Continued

Age Group	Oklahoma City			Phoenix			Portland			Tucson		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	0	29	29	4	17	21	0	14	14	3	3	6
15-19	79	564	643	92	421	513	51	367	418	20	99	119
20-24	146	488	634	105	543	648	84	338	422	22	101	123
25-29	42	209	251	51	255	306	40	157	197	8	52	60
30-34	15	74	89	30	118	148	13	43	56	4	17	21
35-39	2	31	33	14	67	81	5	24	29	0	9	9
40-44	3	13	16	8	27	35	2	17	19	0	2	2
45-54	3	6	9	6	20	26	6	7	13	1	2	3
55-64	0	0	0	1	2	3	0	3	3	1	0	1
65+	0	0	0	2	0	2	1	0	1	0	0	0
All Ages	291	1,419	1,710	313	1,471	1,784	202	971	1,173	59	285	344

Age Group	Total IHS			Total U.S. (Adjusted)		
	Male	Female	Total	Male	Female	Total
10-14	14	159	173	1,414	12,520	13,934
15-19	729	3,780	4,509	81,110	349,145	430,255
20-24	1,189	4,186	5,375	121,536	334,382	455,918
25-29	566	1,916	2,482	62,721	128,249	190,970
30-34	277	772	1,049	28,481	49,325	77,806
35-39	108	380	488	14,930	21,450	36,380
40-44	69	184	253	8,796	9,514	18,311
45-54	62	123	185	7,856	7,216	15,072
55-64	14	27	41	1,795	1,579	3,374
65+	5	3	8	475	474	948
All Ages	3,038	11,540	14,578	329,490	914,690	1,244,180

Note: Total cases may not equal male and female cases due to rounding. Additional table notes on page 97. Male or female case counts between 1 and 4 (with corresponding totals).

# IHS Area Tables

**Table 9B** Chlamydia - Rates per 100,000 Population by Sex and Age Group - Indian Health Service Areas (American Indians and Alaska Natives) and the United States (All Races), 2009

Age Group	Aberdeen			Alaska			Albuquerque			Bemidji		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	0.0	220.4	109.3	39.9	402.2	215.8	0.0	72.2	35.9	0.0	232.0	112.2
15-19	1,965.2	9,237.0	5,573.1	2,331.1	10,855.8	6,462.6	281.3	1,585.6	945.3	593.0	4,356.8	2,429.4
20-24	3,432.5	12,239.3	7,785.4	5,422.6	14,950.7	9,988.9	553.4	2,823.8	1,711.0	869.9	4,281.3	2,511.5
25-29	2,043.3	5,911.0	4,023.7	3,241.3	7,018.4	5,061.3	289.7	1,538.5	931.5	319.5	2,147.2	1,211.0
30-34	942.4	2,842.1	1,958.0	2,487.7	3,725.4	3,102.2	371.9	1,184.7	784.6	279.2	760.2	514.1
35-39	353.4	1,015.6	702.2	863.4	1,988.6	1,422.6	181.7	683.9	435.1	142.6	460.0	300.7
40-44	243.5	749.4	504.7	390.9	965.4	674.1	96.9	289.2	198.4	113.6	26.3	68.3
45-54	76.6	103.5	90.7	291.7	469.1	382.9	17.2	90.0	56.2	0.0	40.5	20.6
55-64	98.2	82.5	89.7	142.8	153.1	148.2	0.0	23.8	12.8	23.1	0.0	11.1
65+	0.0	29.4	17.2	29.1	0.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0
All Ages	782.5	2,739.1	1,785.3	1,287.0	3,409.4	2,342.4	150.0	689.5	429.7	198.3	1,030.2	614.9

Age Group	Billings			California			Nashville			Navajo		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	68.3	644.0	349.3	0.0	51.1	24.8	20.8	167.5	93.8	19.7	211.4	114.5
15-19	2,622.1	9,407.3	5,947.4	182.7	919.7	543.4	333.4	3,050.4	1,655.1	574.2	2,971.4	1,779.4
20-24	3,900.9	9,398.0	6,668.9	353.2	1,215.0	782.3	671.3	3,300.8	1,934.0	1,223.9	4,952.3	3,084.5
25-29	2,336.3	4,377.0	3,321.8	116.8	407.3	257.4	266.1	1,176.5	689.7	1,002.1	4,195.7	2,555.4
30-34	1,130.6	2,625.4	1,866.2	111.2	242.2	173.9	167.5	660.4	406.7	663.1	2,197.3	1,424.1
35-39	591.4	900.9	754.6	78.9	80.9	79.9	22.8	96.5	58.7	353.5	1,312.4	856.5
40-44	339.2	147.6	236.7	64.1	63.3	63.7	22.3	156.1	89.1	247.8	565.8	416.0
45-54	138.2	102.4	119.6	0.0	15.6	8.1	0.0	35.1	17.6	125.5	207.2	168.9
55-64	0.0	41.6	21.1	0.0	0.0	0.0	0.0	0.0	0.0	25.5	108.6	70.4
65+	0.0	45.0	25.3	0.0	0.0	0.0	0.0	0.0	0.0	13.0	9.3	10.8
All Ages	953.1	2,386.4	1,676.5	79.9	267.8	173.9	118.1	648.8	382.0	355.0	1,337.2	861.3



Table 9B, Continued

Age Group	Oklahoma City			Phoenix			Portland			Tucson		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	0.0	206.4	101.8	39.8	172.8	105.6	0.0	191.9	93.9	176.3	187.7	181.8
15-19	495.8	3,677.6	2,056.2	849.0	3,818.2	2,346.5	584.4	4,330.4	2,430.0	1,042.8	5,398.0	3,171.6
20-24	951.1	3,246.0	2,086.6	1,047.9	5,471.0	3,248.9	984.6	4,174.4	2,537.9	1,169.0	5,395.3	3,276.5
25-29	315.4	1,606.8	953.5	504.1	2,524.0	1,513.3	507.2	2,040.6	1,264.4	475.6	2,764.5	1,684.0
30-34	145.1	695.9	424.4	355.8	1,405.8	879.6	185.1	681.7	420.1	285.5	1,145.6	727.9
35-39	20.0	305.7	163.9	180.8	874.2	525.7	75.6	370.4	221.5	0.0	664.2	345.4
40-44	31.0	130.2	81.3	106.5	362.9	234.1	32.7	262.9	150.9	0.0	152.7	79.9
45-54	15.5	28.2	22.1	49.6	150.1	102.3	48.8	52.1	50.5	49.7	86.2	69.3
55-64	0.0	0.0	0.0	13.5	23.9	19.0	0.0	33.1	17.2	73.3	0.0	34.0
65+	0.0	0.0	0.0	33.9	0.0	14.7	16.8	0.0	7.7	0.0	0.0	0.0
All Ages	177.3	833.3	511.3	271.7	1,238.8	762.6	204.7	978.3	592.6	298.7	1,380.7	851.7

Age Group	Total IHS			Total U.S. (Adjusted)		
	Male	Female	Total	Male	Female	Total
10-14			110.2	13.8	127.9	69.5
15-19	816.7	4,328.8	2,553.4	735.5	3,329.3	1,999.9
20-24	1,412.6	5,097.3	3,232.3	1,120.6	3,273.9	2,165.0
25-29	744.3	2,595.5	1,656.2	573.3	1,234.0	895.2
30-34	458.3	1,298.8	875.1	286.0	511.7	397.0
35-39	189.6	658.4	425.6	141.3	205.8	173.3
40-44	121.5	310.0	217.8	81.9	88.4	85.1
45-54	57.7	104.9	82.3	36.0	32.0	34.0
55-64	20.1	34.8	27.8	11.0	9.1	10.0
65+	8.7	4.0	6.0	2.9	2.1	2.4
All Ages	330.5	1,223.3	782.7	219.8	593.4	409.2

Note: Table notes on page 97.

# IHS Area Tables

**Table 10A** Gonorrhea - Reported Cases by Sex - Indian Health Service Areas (American Indians and Alaska Natives) and the United States (All Races), 1998-2009

Year	Aberdeen			Alaska			Albuquerque			Bemidji		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1998	50	104	154	67	113	180	1	2	3	13	54	67
1999	62	142	204	59	98	157	6	21	27	11	55	65
2000	75	138	213	85	128	213	18	30	48	12	52	64
2001	76	130	206	80	161	241	15	21	37	12	52	64
2002	68	114	183	124	227	351	12	15	28	17	68	85
2003	76	137	213	96	200	296	20	26	46	12	74	86
2004	97	192	289	86	209	295	17	22	39	23	92	114
2005	111	195	306	92	225	317	9	18	28	35	72	108
2006	74	167	241	91	200	291	13	27	40	31	101	133
2007	58	127	186	93	175	268	19	31	50	33	88	121
2008	68	182	250	143	210	352	17	36	53	29	106	136
2009	81	180	261	276	389	665	9	39	49	18	133	152

Year	Billings			California			Nashville			Navajo		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1998	2	5	6				14	29	43	37	37	73
1999	2	3	5				18	42	59	58	48	106
2000	10	30	40				29	42	71	86	59	145
2001	22	39	61				20	66	86	75	91	165
2002	20	44	64	12	10	22	25	61	86	77	72	149
2003	11	19	30	15	6	21	23	56	80	80	83	163
2004	6	14	20	37	36	73	30	55	85	97	107	204
2005	12	37	49	47	53	100	23	63	86	81	93	174
2006	17	29	46	42	57	99	61	118	179	90	123	213
2007	3	14	17	47	59	107	25	57	82	58	88	146
2008	0	18	18	22	34	57	22	78	100	61	65	126
2009	8	7	15	9	16	25	22	68	90	66	61	127

Table 10A, Continued

Year	Oklahoma City			Phoenix			Portland			Tucson		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1998	55	265	319	56	128	184	12	46	59	2	3	5
1999	35	222	257	49	108	157	27	58	85	7	4	11
2000	50	210	259	62	128	190	18	53	71	3	14	18
2001	60	237	297	59	123	181	30	75	105	10	17	27
2002	83	258	341	84	152	236	36	65	101	9	12	20
2003	67	211	278	96	167	264	20	81	101	2	6	8
2004	54	225	279	128	242	370	45	102	147	3	8	10
2005	74	234	307	123	227	349	39	115	154	6	19	25
2006	85	243	328	140	232	372	51	102	153	6	36	42
2007	81	274	356	84	181	265	23	103	126	20	43	63
2008	80	304	384	83	139	222	51	86	137	9	21	30
2009	104	318	421	56	118	175	34	47	81	10	16	26

Year	Total IHS			Total U.S. (Unadjusted)		
	Male	Female	Total	Male	Female	Total
1998	309	786	1,093	176,529	179,204	356,492
1999	334	801	1,133	180,524	179,319	360,813
2000	448	884	1,332	180,701	181,668	363,136
2001	459	1,012	1,470	177,194	183,863	361,705
2002	567	1,098	1,666	171,504	179,648	351,852
2003	518	1,066	1,586	160,106	174,230	335,104
2004	623	1,304	1,925	157,303	172,142	330,132
2005	652	1,351	2,003	161,117	177,537	339,593
2006	701	1,435	2,137	170,508	187,033	358,366
2007	544	1,240	1,787	167,685	187,594	355,991
2008	585	1,279	1,865	153,103	182,577	336,742
2009	693	1,392	2,087	137,819	162,568	301,174

Note: Total cases may not equal male and female cases due to rounding. Additional table notes on page 98. Male or female case counts between 1 and 4 (with corresponding totals).

# IHS Area Tables

**Table 10B** Gonorrhea - Rates per 100,000 Population by Sex - Indian Health Service Areas (American Indians and Alaska Natives) and the United States (All Races), 1998-2009

Year	Aberdeen			Alaska			Albuquerque			Bemidji		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1998	107.5	213.0	161.5	128.4	218.1	173.1	16.9	33.0	25.0	27.1	112.0	69.7
1999	129.6	283.1	208.2	111.1	186.3	148.5	13.5	44.1	29.3	21.6	107.5	63.7
2000	152.1	267.5	211.1	157.5	239.6	198.3	39.2	61.0	50.5	22.7	98.7	60.7
2001	153.6	250.2	203.1	147.3	298.5	222.6	32.7	42.6	38.9	22.6	97.9	60.3
2002	136.5	217.5	179.0	226.1	417.5	321.4	25.6	29.8	28.8	31.8	126.8	79.4
2003	151.5	260.2	207.2	171.6	361.7	266.1	41.9	50.7	46.4	22.4	137.1	79.9
2004	189.2	354.6	274.2	152.7	374.8	263.2	34.4	41.3	38.0	42.5	169.3	105.1
2005	213.8	356.7	287.1	160.7	398.3	278.7	17.8	33.0	26.6	65.2	134.1	100.6
2006	144.0	310.0	229.0	162.2	361.2	261.1	25.8	49.8	38.2	56.6	183.5	121.1
2007	113.8	236.8	177.8	166.3	315.3	240.5	37.0	56.3	47.0	60.3	160.0	110.2
2008	128.2	326.5	229.8	253.8	376.8	314.1	31.2	61.7	47.0	50.4	183.8	118.1
2009	152.7	322.9	239.9	489.9	698.0	593.4	16.5	66.8	43.5	31.3	230.7	132.0

Year	Billings			California			Nashville			Navajo		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1998	52.5	131.3	78.8				65.4	135.2	100.4	61.0	58.5	58.9
1999	50.6	75.7	63.1				44.6	102.9	72.6	54.9	43.3	49.0
2000	34.7	102.0	68.6				56.5	83.1	69.7	80.7	52.5	66.2
2001	75.8	131.5	103.9				38.2	128.1	82.8	69.6	79.9	74.5
2002	67.8	145.8	107.2	14.2	12.0	13.1	46.9	116.2	81.3	69.6	61.5	65.4
2003	36.5	61.4	49.1	17.5	7.0	12.3	42.4	105.3	74.5	71.1	69.7	70.4
2004	19.9	45.3	32.8	42.3	41.2	41.7	53.6	100.2	76.6	87.2	90.8	89.1
2005	39.6	117.8	79.4	52.5	59.4	55.9	41.3	115.3	77.9	71.6	77.3	74.5
2006	55.7	92.4	74.3	45.5	61.8	53.6	103.5	203.7	153.2	81.6	105.4	93.8
2007	9.8	45.2	27.7	50.5	63.2	57.4	41.7	96.3	68.8	54.5	77.9	66.5
2008	0.0	55.9	28.2	22.3	34.4	28.8	34.2	122.5	78.1	55.9	56.0	56.0
2009	25.3	21.8	23.5	9.1	16.2	12.6	34.2	106.8	70.3	60.5	52.6	56.4

Table 10B, Continued

Year	Oklahoma City			Phoenix			Portland			Tucson		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1998	36.5	169.8	104.0	71.2	157.9	115.2	15.5	58.9	37.9	13.2	18.8	16.1
1999	22.7	139.1	82.0	59.7	128.0	94.4	31.8	67.3	49.7	44.8	24.4	34.3
2000	32.1	130.1	81.6	72.8	146.1	110.0	20.7	60.3	40.6	18.5	82.4	54.2
2001	38.4	146.5	93.4	66.3	134.0	100.1	34.2	84.6	59.6	59.3	95.7	78.0
2002	52.7	158.5	106.5	89.3	156.2	123.3	40.8	72.8	56.9	52.1	65.8	56.3
2003	42.4	129.2	86.6	98.9	165.9	133.5	22.4	89.8	56.3	11.3	32.3	22.0
2004	33.8	136.2	85.9	132.0	241.6	187.7	50.1	112.8	81.5	17.4	44.5	28.4
2005	45.9	140.0	93.5	121.4	216.7	169.4	42.8	125.8	84.4	33.3	101.3	67.9
2006	52.9	145.1	99.9	139.1	222.4	181.5	55.7	111.2	83.5	34.1	195.4	116.6
2007	50.8	165.3	109.4	79.3	165.2	123.0	25.0	110.9	68.1	113.2	232.3	174.1
2007	48.7	178.5	114.8	72.0	117.0	94.9	51.7	86.7	69.2	45.6	101.7	74.3
2009	63.4	186.7	125.9	48.6	99.3	74.8	34.4	47.4	40.9	50.6	77.5	64.4

Year	Total IHS			Total U.S. (Unadjusted)		
	Male	Female	Total	Male	Female	Total
1998	55.1	136.8	96.3	130.6	127.3	129.2
1999	48.9	113.8	81.7	132.0	126.1	129.3
2000	61.1	117.4	89.6	130.5	126.4	128.7
2001	61.9	132.6	97.7	126.5	126.6	126.8
2002	67.5	127.4	97.9	121.1	122.5	122.0
2003	60.8	121.9	91.9	111.9	117.9	115.2
2004	72.5	147.8	110.5	108.8	115.4	112.4
2005	74.6	150.6	113.1	110.4	118.0	114.6
2006	80.1	159.7	120.5	115.6	123.1	119.7
2007	61.9	137.4	100.4	112.8	122.6	118.0
2008	63.4	135.0	99.7	102.1	118.5	110.7
2009	75.1	147.0	111.6	91.9	105.5	99.1

Note: Table notes on page 98. \*Male or female case counts between 1 and 4 (with corresponding totals).

# IHS Area Tables

**Table 11A** Gonorrhea - Reported Cases by Sex and Age Group - Indian Health Service Areas (American Indians and Alaska Natives) and the United States (All Races), 2009

Age Group	Aberdeen			Alaska			Albuquerque			Bemidji		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	0	1	1	2	2	4	0	0	0	0	3	3
15-19	17	57	74	38	83	121	1	8	9	4	36	40
20-24	23	55	78	63	131	194	2	17	19	11	48	59
25-29	24	24	48	52	59	111	4	8	12	1	35	36
30-34	5	21	26	42	41	83	2	3	5	0	7	7
35-39	4	7	11	31	30	61	0	1	1	1	6	7
40-44	5	5	10	13	17	30	0	1	1	0	1	1
45-54	0	0	0	20	21	41	0	0	0	0	0	0
55-64	0	0	0	13	4	17	0	0	0	1	0	1
65+	0	0	0	2	0	2	0	0	0	0	0	0
All Ages	78	170	248	276	389	665	9	38	47	18	136	154

Age Group	Billings			California			Nashville			Navajo		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	0	0	0	0	0	0	1	0	1	0	1	1
15-19	1	0	1	0	5	5	5	23	28	10	13	23
20-24	3	5	8	2	4	6	6	19	25	18	20	38
25-29	4	0	4	4	4	8	5	10	15	9	10	19
30-34	0	1	1	2	0	2	0	8	8	12	6	18
35-39	0	0	0	0	0	0	2	3	5	3	4	7
40-44	0	2	2	0	0	0	0	3	3	4	1	5
45-54	5	0	5	0	0	0	1	1	2	5	2	7
55-64	0	0	0	0	1	1	0	0	0	0	0	0
65+	0	0	0	0	0	0	0	0	0	1	1	2
All Ages	13	8	21	8	14	22	20	68	88	63	59	122

Table 11A Continued

Age Group	Oklahoma City			Phoenix			Portland			Tucson		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	0	4	4	0	5	5	0	0	0	0	0	0
15-19	17	108	125	7	30	37	1	17	18	1	6	7
20-24	30	91	121	21	31	52	9	15	24	5	6	11
25-29	28	46	74	4	21	25	9	10	19	3	1	4
30-34	12	23	35	10	12	22	6	0	6	0	3	3
35-39	0	11	11	5	5	10	2	3	5	0	3	3
40-44	5	5	10	3	3	6	2	0	2	0	0	0
45-54	3	6	9	3	1	4	2	0	2	1	0	1
55-64	0	0	0	1	0	1	1	0	1	0	0	0
65+	0	0	0	0	0	0	0	0	0	0	0	0
All Ages	95	295	390	54	109	163	32	45	77	10	19	29

Age Group	Total IHS			Total U.S. (Unadjusted)		
	Male	Female	Total	Male	Female	Total
10-14	3	16	19	509	2,482	2,991
15-19	102	386	488	27,573	59,648	87,221
20-24	193	442	635	44,190	56,712	100,902
25-29	147	228	375	26,142	23,840	49,981
30-34	91	125	216	14,437	10,232	24,669
35-39	48	73	121	9,049	4,957	14,006
40-44	32	38	70	6,538	2,459	8,997
45-54	40	31	71	7,352	1,965	9,317
55-64	16	5	21	1,853	364	2,217
65+	3	1	4	447	108	555
All Ages	676	1,350	2,026	138,187	162,987	301,174

Note: Total cases may not equal male and female cases due to rounding. Additional table notes on page 98. Male or female case counts between 1 and 4 (with corresponding totals).

# IHS Area Tables

**Table 11B** Gonorrhea - Rates per 100,000 Population by Sex and Age Group - Indian Health Service Areas (American Indians and Alaska Natives) and the United States (All Races), 2009

Age Group	Aberdeen			Alaska			Albuquerque			Bemidji		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	0.0	18.4	9.1	39.9	42.3	41.1	0.0	0.0	0.0	0.0	63.3	30.6
15-19	295.7	1,006.7	648.4	646.6	1,501.7	1,061.0	20.0	153.7	88.1	71.9	679.0	368.1
20-24	478.5	1,170.7	820.6	1,215.7	2,746.9	1,949.6	39.2	323.2	183.4	208.0	978.6	578.8
25-29	583.8	556.3	569.7	1,138.9	1,389.5	1,259.6	82.5	158.2	121.2	21.3	782.8	392.8
30-34	168.3	615.3	407.3	1,214.9	1,202.7	1,208.9	49.6	71.3	60.7	0.0	204.7	100.0
35-39	141.3	222.2	183.9	922.9	903.9	913.4	0.0	27.8	14.0	28.5	172.5	100.2
40-44	173.9	162.9	168.2	338.8	455.9	396.5	0.0	27.1	14.2	0.0	26.3	13.7
45-54	0.0	0.0	0.0	291.7	289.7	290.7	0.0	0.0	0.0	0.0	0.0	0.0
55-64	0.0	0.0	0.0	309.5	87.5	193.8	0.0	0.0	0.0	23.1	0.0	11.1
65+	0.0	0.0	0.0	58.3	0.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0
All Ages	147.1	304.9	228.0	489.9	698.0	593.4	16.5	65.1	41.7	31.3	235.9	133.7

Age Group	Billings			California			Nashville			Navajo		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	0.0	0.0	0.0	0.0	0.0	0.0	20.8	0.0	10.4	0.0	10.1	5.0
15-19	30.1	0.0	15.4	0.0	56.1	27.4	92.6	449.7	266.3	83.2	107.0	95.2
20-24	101.8	167.2	134.7	20.8	41.9	31.3	115.1	394.4	249.2	169.5	189.0	179.2
25-29	166.9	0.0	86.3	42.5	45.3	43.8	102.4	235.3	164.2	106.1	124.5	115.1
30-34	0.0	58.3	28.7	27.8	0.0	14.5	0.0	203.2	98.6	189.5	96.2	143.2
35-39	0.0	0.0	0.0	0.0	0.0	0.0	45.7	72.4	58.7	50.5	61.0	56.0
40-44	0.0	98.4	52.6	0.0	0.0	0.0	0.0	66.9	33.4	62.0	13.8	36.5
45-54	138.2	0.0	66.4	0.0	0.0	0.0	11.8	11.7	11.8	39.2	13.8	25.7
55-64	0.0	0.0	0.0	0.0	12.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0
65+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	9.3	10.8
All Ages	41.2	24.9	32.9	8.1	14.1	11.1	31.1	106.8	68.8	57.8	50.9	54.2



Table 11B Continued

Age Group	Oklahoma City			Phoenix			Portland			Tucson		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	0.0	28.5	14.0	0.0	50.8	25.1	0.0	0.0	0.0	0.0	0.0	0.0
15-19	106.7	704.2	399.7	64.6	272.1	169.2	11.5	200.6	104.6	52.1	327.2	186.6
20-24	195.4	605.3	398.2	209.5	312.2	260.6	105.5	185.3	144.3	265.7	320.5	293.0
25-29	210.3	353.7	281.1	39.5	207.7	123.6	114.1	130.0	122.0	178.4	53.2	112.3
30-34	116.1	216.3	166.9	118.6	142.9	130.7	85.4	0.0	45.0	0.0	202.2	104.0
35-39	0.0	108.5	54.6	64.5	65.2	64.9	30.2	46.3	38.2	0.0	221.4	115.1
40-44	51.6	50.1	50.8	39.9	40.3	40.1	32.7	0.0	15.9	0.0	0.0	0.0
45-54	15.5	28.2	22.1	24.8	7.5	15.7	16.3	0.0	7.8	49.7	0.0	23.1
55-64	0.0	0.0	0.0	13.5	0.0	6.3	11.9	0.0	5.7	0.0	0.0	0.0
65+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All Ages	57.9	173.2	116.6	46.9	91.8	69.7	32.4	45.3	38.9	50.6	92.0	71.8

Age Group	Total IHS			Total U.S. (Unadjusted)					
	Male	Female	Total	Male	Female	Total			
10-14				3.7	20.6	12.1	5.0	25.3	14.9
15-19				113.8	440.0	275.1	250.0	568.8	405.4
20-24				228.2	535.8	380.1	407.5	555.3	479.1
25-29				192.4	307.5	249.1	238.9	229.4	234.3
30-34				149.9	209.1	179.3	145.0	106.2	125.9
35-39				83.9	126.0	105.1	85.6	47.6	66.7
40-44				56.1	63.8	60.0	60.8	22.9	41.8
45-54				37.1	26.3	31.5	33.6	8.7	21.0
55-64				22.9	6.4	14.2	11.4	2.1	6.6
65+				5.2	1.3	3.0	2.7	0.5	1.4
All Ages				73.2	142.5	108.3	92.2	105.7	99.1

Note: Table notes on page 98.

# IHS Area Tables

**Table 12A** Primary and Secondary Syphilis - Reported Cases by Sex - Indian Health Service Areas (American Indians and Alaska Natives) and the United States (All Races), 1998-2009

Year	Aberdeen			Alaska			Albuquerque			Bemidji		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1998	0	0	0	1	0	1	0	0	0	0	0	0
1999	0	1	1	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	2	2	4	0	0	0
2001	0	0	0	0	0	0	0	3	3	0	0	0
2002	0	0	0	0	0	0	1	2	3	0	0	0
2003	1	0	1	1	0	1	1	4	5	0	0	0
2004	0	0	0	0	0	0	3	6	10	0	0	0
2005	0	0	0	1	0	1	6	4	11	0	0	0
2006	3	0	3	1	0	1	4	2	6	0	0	0
2007	0	1	1	0	0	0	1	0	1	0	0	0
2008	0	1	1	0	0	0	1	0	1	0	0	0
2009	0	0	0	0	0	0	5	2	7	1	0	1

Year	Billings			California			Nashville			Navajo		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1998	0	0	0	0	0	0	0	2	2	0	1	1
1999	0	0	0	0	0	0	1	0	1	0	0	0
2000	0	0	0	0	0	0	0	2	2	2	0	2
2001	0	0	0	0	0	0	0	1	1	5	6	11
2002	0	0	0	1	0	1	0	0	0	8	9	17
2003	0	0	0	1	0	1	1	0	1	15	11	26
2004	0	0	0	2	0	2	0	0	0	15	19	34
2005	0	0	0	1	0	1	2	1	3	13	5	18
2006	0	0	0	2	0	2	0	1	1	19	11	31
2007	0	0	0	3	0	3	0	0	0	10	13	23
2008	0	0	0	1	0	1	0	0	0	8	4	12
2009	0	0	0	0	0	0	0	0	0	7	4	11

Table 12A Continued

Year	Oklahoma City			Phoenix			Portland			Tucson		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1998	2	5	7	4	4	8	0	0	0	0	0	0
1999	4	12	16	4	3	7	0	1	1	0	0	0
2000	3	3	6	4	4	8	0	0	0	0	0	0
2001	1	1	2	6	3	9	0	0	0	0	0	0
2002	0	2	2	2	4	6	3	0	3	2	0	2
2003	1	0	1	8	1	9	2	0	2	0	1	1
2004	0	0	0	5	6	12	3	0	3	0	0	0
2005	0	1	1	6	6	12	1	0	1	0	1	1
2006	4	2	6	6	2	8	1	0	1	0	0	0
2007	1	2	3	7	8	16	2	0	2	9	9	18
2008	2	6	8	4	3	8	1	1	2	4	2	6
2009	6	0	6	9	0	9	1	1	2	2	3	5

Year	Total IHS			Total U.S. (Unadjusted)		
	Male	Female	Total	Male	Female	Total
1998	7	12	19	3,909	3,096	7,007
1999	9	17	26	3,835	2,777	6,617
2000	11	11	22	3,532	2,445	5,979
2001	12	14	26	4,134	1,967	6,103
2002	17	17	34	5,267	1,594	6,862
2003	31	17	48	5,956	1,217	7,177
2004	28	31	61	6,722	1,255	7,980
2005	30	18	49	7,383	1,339	8,724
2006	40	18	59	8,293	1,458	9,756
2007	33	33	67	9,769	1,692	11,466
2008	21	17	39	11,255	2,242	13,500
2009	31	10	41	11,764	2,232	13,997

Note: Total cases may not equal male and female cases due to rounding. Additional table notes on page 98. Male or female case counts between 1 and 4 (with corresponding totals).

# IHS Area Tables

**Table 12B** Primary and Secondary Syphilis - Rates per 100,000 Population by Sex - Indian Health Service Areas (American Indians and Alaska Natives) and the United States (All Races), 1998-2009

Year	Aberdeen			Alaska			Albuquerque			Bemidji		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1998	0.0	0.0	0.0	1.9	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
1999	0.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2000	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.1	4.2	0.0	0.0	0.0
2001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	3.2	0.0	0.0	0.0
2002	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.0	3.1	0.0	0.0	0.0
2003	2.0	0.0	1.0	1.8	0.0	0.9	2.1	7.8	5.0	0.0	0.0	0.0
2004	0.0	0.0	0.0	0.0	0.0	0.0	6.1	11.3	9.7	0.0	0.0	0.0
2005	0.0	0.0	0.0	1.7	0.0	0.9	11.8	7.3	10.5	0.0	0.0	0.0
2006	5.8	0.0	2.9	1.8	0.0	0.9	7.9	3.7	5.7	0.0	0.0	0.0
2007	0.0	1.9	1.0	0.0	0.0	0.0	1.9	0.0	0.9	0.0	0.0	0.0
2008	0.0	1.8	0.9	0.0	0.0	0.0	1.8	0.0	0.9	0.0	0.0	0.0
2009	0.0	0.0	0.0	0.0	0.0	0.0	9.2	3.4	6.2	1.7	0.0	0.9

Year	Billings			California			Nashville			Navajo		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1998	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	2.6	0.0	1.6	0.8
1999	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	1.1	0.0	0.0	0.0
2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.0	1.9	0.0	0.9
2001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.0	4.6	5.3	5.0
2002	0.0	0.0	0.0	1.2	0.0	0.6	0.0	0.0	0.0	7.2	7.7	7.5
2003	0.0	0.0	0.0	1.2	0.0	0.6	1.8	0.0	0.9	13.3	9.2	11.2
2004	0.0	0.0	0.0	2.3	0.0	1.1	0.0	0.0	0.0	13.5	16.1	14.8
2005	0.0	0.0	0.0	1.1	0.0	0.6	3.6	1.8	2.7	11.5	4.2	7.7
2006	0.0	0.0	0.0	2.2	0.0	1.1	0.0	1.7	0.9	17.2	9.4	13.7
2007	0.0	0.0	0.0	3.2	0.0	1.6	0.0	0.0	0.0	9.4	11.5	10.5
2008	0.0	0.0	0.0	1.0	0.0	0.5	0.0	0.0	0.0	7.3	3.4	5.3
2009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	3.3	4.8

Table 12B Continued

Year	Oklahoma City			Phoenix			Portland			Tucson		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1998	1.3	3.2	2.3	4.9	4.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0
1999	2.6	7.5	5.1	4.7	3.5	4.1	0.0	1.2	0.6	0.0	0.0	0.0
2000	1.9	1.9	1.9	4.6	4.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0
2001	0.6	0.6	0.6	6.6	3.2	4.9	0.0	0.0	0.0	0.0	0.0	0.0
2002	0.0	1.2	0.6	2.1	4.1	3.1	3.4	0.0	1.7	11.6	0.0	5.6
2003	0.6	0.0	0.3	8.2	1.0	4.6	2.2	0.0	1.1	0.0	5.4	2.8
2004	0.0	0.0	0.0	5.2	6.0	6.1	3.3	0.0	1.7	0.0	0.0	0.0
2005	0.0	0.6	0.3	5.9	5.7	5.8	1.1	0.0	0.5	0.0	5.3	2.7
2006	2.5	1.2	1.8	6.0	1.9	3.9	1.1	0.0	0.5	0.0	0.0	0.0
2007	0.6	1.2	0.9	6.6	7.3	7.4	2.3	0.0	1.2	50.9	48.6	49.8
2008	1.2	3.5	2.4	3.5	2.5	3.4	1.0	1.0	1.0	20.3	9.7	14.9
2009	3.7	0.0	1.8	7.8	0.0	3.9	1.0	1.0	1.0	10.1	14.5	12.4

Year	Total IHS			Total U.S. (Unadjusted)		
	Male	Female	Total	Male	Female	Total
1998	1.0	1.7	1.4	2.9	2.2	2.5
1999	1.2	2.1	1.7	2.8	2.0	2.4
2000	1.3	1.3	1.3	2.6	1.7	2.1
2001	1.5	1.7	1.6	3.0	1.4	2.1
2002	2.0	2.0	2.0	3.7	1.1	2.4
2003	3.6	1.9	2.8	4.2	0.8	2.5
2004	3.3	3.5	3.5	4.7	0.8	2.7
2005	3.4	2.0	2.8	5.1	0.9	2.9
2006	4.6	2.0	3.3	5.6	1.0	3.3
2007	3.8	3.7	3.8	6.6	1.1	3.8
2008	2.3	1.8	2.1	7.5	1.5	4.4
2009	3.4	1.1	2.2	7.8	1.4	4.6

Note: Table notes on page 98.

# IHS Area Tables

**Table 13A** Primary and Secondary Syphilis - Reported Cases by Sex and Age Group - Indian Health Service Areas (American Indians and Alaska Natives) and the United States (All Races), 2009

Age Group	Aberdeen			Alaska			Albuquerque			Bemidji		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	0	0	0	0	0	0	0	0	0	0	0	0
15-19	0	0	0	0	0	0	0	0	0	1	0	1
20-24	0	0	0	0	0	0	0	0	0	0	0	0
25-29	0	0	0	0	0	0	0	1	1	0	0	0
30-34	0	0	0	0	0	0	0	0	0	0	0	0
35-39	0	0	0	0	0	0	0	1	1	0	0	0
40-44	0	0	0	0	0	0	2	0	2	0	0	0
45-54	0	0	0	0	0	0	2	0	2	0	0	0
55-64	0	0	0	0	0	0	0	0	0	0	0	0
65+	0	0	0	0	0	0	0	0	0	0	0	0
All Ages	0	0	0	0	0	0	4	2	6	1	0	1

Age Group	Billings			California			Nashville			Navajo		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	0	0	0	0	0	0	0	0	0	0	0	0
15-19	0	0	0	0	0	0	0	0	0	0	0	0
20-24	0	0	0	0	0	0	0	0	0	2	0	2
25-29	0	0	0	0	0	0	0	0	0	1	1	2
30-34	0	0	0	0	0	0	0	0	0	3	1	4
35-39	0	0	0	0	0	0	0	0	0	1	0	1
40-44	0	0	0	0	0	0	0	0	0	0	0	0
45-54	0	0	0	0	0	0	0	0	0	0	2	2
55-64	0	0	0	0	0	0	0	0	0	0	0	0
65+	0	0	0	0	0	0	0	0	0	0	0	0
All Ages	0	0	0	0	0	0	0	0	0	7	4	11

Table 13A Continued

Age Group	Oklahoma City			Phoenix			Portland			Tucson		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	0	0	0	0	0	0	0	0	0	0	0	0
15-19	0	0	0	0	0	0	0	0	0	0	0	0
20-24	1	0	1	3	0	3	0	0	0	0	1	1
25-29	1	0	1	6	0	6	0	0	0	0	2	2
30-34	2	0	2	1	0	1	0	0	0	0	0	0
35-39	2	0	2	0	0	0	1	1	2	1	0	1
40-44	0	0	0	0	0	0	0	0	0	1	0	1
45-54	0	0	0	0	0	0	0	0	0	0	0	0
55-64	0	0	0	0	0	0	0	0	0	0	0	0
65+	0	0	0	0	0	0	0	0	0	0	0	0
All Ages	6	0	6	10	0	10	1	1	2	2	3	5

Age Group	Total IHS			Total U.S. (Unadjusted)		
	Male	Female	Total	Male	Female	Total
10-14	0	0	0	4	15	19
15-19	1	0	1	661	344	1,005
20-24	6	1	7	2,242	570	2,812
25-29	8	4	12	2,028	377	2,405
30-34	6	1	7	1,571	286	1,857
35-39	5	2	7	1,409	203	1,612
40-44	3	0	3	1,476	167	1,643
45-54	2	2	4	1,815	218	2,033
55-64	0	0	0	475	42	517
65+	0	0	0	83	7	90
All Ages	31	10	41	11,765	2,232	13,997

Note: Total cases may not equal male and female cases due to rounding. Additional table notes on page 98.

# IHS Area Tables

**Table 13B** Primary and Secondary Syphilis - Rates per 100,000 Population by Sex and Age Group - Indian Health Service Areas (American Indians and Alaska Natives) and the United States (All Races), 2009

Age Group	Aberdeen			Alaska			Albuquerque			Bemidji		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	0.0	9.2
20-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25-29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8	10.1	0.0	0.0	0.0
30-34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35-39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.8	14.0	0.0	0.0	0.0
40-44	0.0	0.0	0.0	0.0	0.0	0.0	59.9	0.0	28.5	0.0	0.0	0.0
45-54	0.0	0.0	0.0	0.0	0.0	0.0	32.5	0.0	15.1	0.0	0.0	0.0
55-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All Ages	0.0	0.0	0.0	0.0	0.0	0.0	7.4	3.4	5.3	1.7	0.0	0.9

Age Group	Billings			California			Nashville			Navajo		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.8	0.0	9.4
25-29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	12.5	12.1
30-34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.4	16.0	31.8
35-39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	0.0	8.0
40-44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45-54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	6.2
55-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All Ages	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	3.3	4.8



Table 13B Continued

Age Group	Oklahoma City			Phoenix			Portland			Tucson		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
10-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-24	6.5	0.0	3.3	29.9	0.0	15.0	0.0	0.0	0.0	0.0	53.4	26.6
25-29	7.5	0.0	3.8	59.3	0.0	29.7	0.0	0.0	0.0	0.0	106.3	56.1
30-34	19.4	0.0	9.5	11.9	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0
35-39	20.0	0.0	9.9	0.0	0.0	0.0	15.1	15.4	15.3	79.9	0.0	38.4
40-44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.9	0.0	40.0
45-54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All Ages	3.7	0.0	1.8	8.7	0.0	4.4	1.0	1.0	1.0	10.1	14.5	12.4

Age Group	Total IHS			Total U.S. (Unadjusted)		
	Male	Female	Total	Male	Female	Total
10-14	0.0	0.0	0.0	0.0	0.2	0.1
15-19	1.1	0.0	0.6	6.0	3.3	4.7
20-24	7.2	1.2	4.2	20.7	5.6	13.4
25-29	10.6	5.5	8.1	18.5	3.6	11.3
30-34	10.0	1.7	5.9	15.8	3.0	9.5
35-39	8.9	3.5	6.2	13.3	1.9	7.7
40-44	5.3	0.0	2.6	13.7	1.6	7.6
45-54	1.9	1.7	1.8	8.3	1.0	4.6
55-64	0.0	0.0	0.0	2.9	0.2	1.5
65+	0.0	0.0	0.0	0.5	0.0	0.2
All Ages	3.4	1.1	2.2	7.8	1.4	4.6

Note: Table notes on page 98.

## Table Notes

### Table 1A

Data source: STDSS Morbidity file, unadjusted • Cases with unknown sex are included in the Totals  
STD source: 2009 CDC STD Surveillance Report, Tables 1, 3-5, 13-15, 25-27

### Table 1B

Data source: STDSS Morbidity file, unadjusted • Population source: NCHS bridged-race file of the U.S. Census population (2000-2008); U.S. Census Bureau estimates (2000) • 2009 rates are computed using 2008 populations to be consistent with the 2009 CDC STD Surveillance Report  
STD source: 2009 CDC STD Surveillance Report, Tables 1, 3-5, 13-15, 25-27

### Table 2A

Data source: STDSS Age-Race/Ethnicity-Sex files, 1996-2009 and STDSS Morbidity file • All races, including AI/ANs, are non-Hispanic; Hispanics, in total, are shown as a separate race group • States with >50% unknown race/ethnicity values are excluded • Cases with unknown race/ethnicity and sex values are re-distributed to known categories based on percent-age of cases in each sex and race group • Total cases may not equal male plus female cases because of rounding in the re-distribution process • Total U.S. cases are unadjusted (no exclusions or re-distributions) and match National Table 1A • Total U.S. cases with unknown sex are included in the Totals  
STD source: 2009 CDC STD Surveillance Report, Table 11A (cases by race/ethnicity group) and Tables 1, 3-5 (Total U.S.)

### Table 2B

Data source: STDSS Age-Race/Ethnicity-Sex files with exclusions and re-distributions (race/ethnicity rates) and unadjusted STDSS Morbidity file (Total U.S.) • Population source: NCHS bridged-race file of the U.S. Census 2000 population with exclusions (rates of race/ethnicity groups) or no exclusions (Total U.S.) • 2009 rates are computed using 2008 populations  
STD source: 2009 CDC STD Surveillance Report, Table 11B (rates by race/ethnicity group) and Tables 1, 3-5 (Total U.S.)

### Table 3A

Data source: STDSS Age-Race/Ethnicity-Sex files, 2009 and STDSS Morbidity file • All races, including AI/ANs, are non-Hispanic; Hispanics, in total, are shown as a separate race group • No states are excluded • Cases with unknown race/ethnicity and sex values are re-distributed to known categories based on percentage of cases in each sex and race group • Total cases may not equal male plus female cases because of rounding in the re-distribution process • Total U.S. cases are adjusted (no exclusions or re-distributions) and match National Table 1A • Total U.S. cases with unknown sex are included in the Totals  
STD source: 2009 CDC STD Surveillance Report, Table 10, 11A and 11B (cases by race/ethnicity group) and Tables 1, 3-5 (Total U.S.)

### Table 3B

Data source: STDSS Age-Race/Ethnicity-Sex files with exclusions and re-distributions (race/ethnicity rates) and adjusted STDSS Morbidity file (Total U.S.) • Population source: NCHS bridged-race file of the U.S. Census 2000 population with exclusions (rates of race/ethnicity groups) or no exclusions (Total U.S.) • Rates among persons 0-9 years of age are not shown as an age group but are included in the All Ages Total • 2009 rates are computed using 2008 populations  
STD source: 2009 CDC STD Surveillance Report, Table 10, 11A and 11B (rates by race/ethnicity group) and Tables 10 (Total U.S.)

### Table 4A

Data source: STDSS Age-Race/Ethnicity-Sex files, 1984-2009 and STDSS Morbidity file • All races, including AI/ANs, are non-Hispanic; Hispanics, in total, are shown as a separate race group • States with >50% unknown race/ethnicity values are excluded • Cases with unknown race/ethnicity and sex values are re-distributed to known categories based on percent-age of cases in each sex and race group • Total cases may not equal male plus female cases because of rounding in the re-distribution process • Total U.S. cases are unadjusted (no exclusions or re-distributions) and match National Table 1A • Total U.S. cases with unknown sex are included in the Totals  
STD source: 2009 CDC STD Surveillance Report, Table 21A (cases by race/ethnicity group) and Tables 1, 13-15 (Total U.S.)

### Table 4B

Data source: STDSS Age-Race/Ethnicity-Sex files with exclusions and re-distributions (race/ethnicity rates) and un-adjusted STDSS Morbidity file (Total U.S.) • Population source: NCHS bridged-race file of the U.S. Census 2000 population with exclusions, 1990-1998 (rates of race/ethnicity groups) or no exclusions (Total U.S.) • 2009 rates are computed using 2008 populations  
STD source: 2009 CDC STD Surveillance Report, Table 21B (rates by race/ethnicity group) and Tables 1, 13-15 (Total U.S.)

### Table 5A

Data source: STDSS Age-Race/Ethnicity-Sex files, 2009 • All races, including AI/ANs, are non-Hispanics, Hispanics, in total, are shown as a separate race group • No states are excluded • Cases with unknown race/ethnicity and sex values are redistributed to known categories based on percentage of cases in each sex and race group • Total cases may not equal male plus female cases because of rounding in the re-distribution process • Cases among persons 0-9 years of age are not shown as an age group but are included in the All Ages Total • Total U.S. cases are adjusted (no exclusions but cases of unknown sex and age are re-distributed to known age and sex groups)  
STD source: 2009 CDC STD Surveillance Report, Table 21B (cases by race/ethnicity group) and Table 20 (Total U.S.)

### Table 5B

Data source: STDSS Age-Race/Ethnicity-Sex files, 2009 with exclusions and re-distributions (race/ethnicity rates) and unadjusted STDSS Morbidity file (Total U.S.) • Population source: NCHS bridged-race file of the U.S. Census 2000 population with exclusions (rates of race/ethnicity groups) or no exclusions (Total U.S.) • Rates among persons 0-9 years of age are not shown as an age group but are included in the All Ages Total • 2009 rates are computed using 2008 populations  
STD source: 2009 CDC STD Surveillance Report, Table 21B (rates by race/ethnicity group) and Tables 20 (Total U.S.)

**Table 6A**

Data source: STDSS Age-Race/Ethnicity-Sex files, 1996-2009 and STDSS Morbidity file • All races, including AI/ANs, are non-Hispanic; Hispanics, in total, are shown as a separate race group • States with >50% unknown race/ethnicity values are excluded • Cases with unknown race/ethnicity and sex values are re-distributed to known categories based on percentage of cases in each sex and race group • Total cases may not equal male plus female cases because of rounding in the re-distribution process • Total U.S. cases are unadjusted (no exclusions or re-distributions) and match National Table 1A • Total U.S. cases with unknown sex are included in the Totals

STD source: 2009 CDC STD Surveillance Report, Table 33A (cases by race/ethnicity group) and Tables 1, 25-27 (Total U.S.)

**Table 6B**

Data source: STDSS Age-Race/Ethnicity-Sex files with exclusions and re-distributions (race/ethnicity rates) and unadjusted STDSS Morbidity file (Total U.S.) • Population source: NCHS bridged-race file of the U.S. Census 2000 population with exclusions, 1990-1989 (rates of race/ethnicity groups) or no exclusions (Total U.S.) • 2009 rates are computed using 2008 populations

STD source: 2009 CDC STD Surveillance Report, Table 33B (rates by race/ethnicity group) and Tables 1, 25-27 (Total U.S.)

**Table 7A**

Data source: STDSS Age-Race/Ethnicity-Sex files, 2009 • All races, including AI/ANs, are non-Hispanics, Hispanics, in total, are shown as a separate race group • No states are excluded • Cases with unknown age, race/ethnicity and sex values are redistributed to known categories based on percentage of cases in each age, race and sex group • Total cases may not equal male plus female cases because of rounding in the redistribution process • Cases among persons 0-9 years of age are not shown as an age group but are included in the All Ages Total • Total U.S. cases are adjusted (no exclusions but cases of unknown sex and age are re-distributed to known age and sex groups)

STD source: 2009 CDC STD Surveillance Report, Table 33A (cases by race/ethnicity group) and Table 33 (Total U.S.)

**Table 7B**

Data source: STDSS Age-Race/Ethnicity-Sex files, 2009 with redistributions for race/ethnicity rates and Total U.S. rate Population source: NCHS bridged-race file of the U.S. Census 2000 population (rates of race/ethnicity groups) or no exclusions (Total U.S.) • Rates among persons 0-9 years of age are not shown as an age group but are included in the All Ages Total • 2009 rates are computed using 2008 populations STD source: 2009 CDC STD Surveillance Report, Table 33B (rates by race/ethnicity group) and Table 32 (Total U.S.)

**Table 8A: IHS Area—Chlamydia cases by year**

Data source: NETSS, 1998-2009 (IHS cases) and STDSS Morbidity file (U.S. Total cases) • AI/AN cases include AI/AN Hispanics • IHS cases are all AI/AN cases reported from IHS service counties. If counties are split between IHS Areas, the cases are proportioned to each IHS Area based on established percentages (Appendix B). • States with >50% unknown race/ethnicity values are excluded (see the IHS Area STD Profiles section for details) • Cases with unknown age, race/ethnicity and sex values are re-distributed to known categories based on percentage of cases in each race group • Total cases may not equal male plus female cases because of rounding in the redistribution process • Total U.S. cases are unadjusted and match IHS National Table 1A.

STD source for Total U.S. cases: 2009 CDC STD Surveillance Report, Tables 1 and 3-5

**Table 8B: IHS Area—Chlamydia rates by year**

Population source: NCHS bridged-race file of the U.S. Census 2000 population with exclusions for IHS • AI/AN Hispanics are included in the AI/AN populations • IHS populations are based on AI/AN living in IHS service counties. If counties are split between IHS Areas, the populations are proportioned based on established percentages (Appendix B) • Total U.S. rates are unadjusted • 2009 Total U.S. rates are computed using 2008 populations STD source for Total U.S. rates: 2009 CDC Surveillance Report, Tables 1 and 3-5

**Table 9A: IHS Area—Chlamydia cases by age group**

Data source: NETSS, 1998-2009 (IHS cases) and STDSS Age-Race/Ethnicity-Sex file, 2009 (U.S. Total cases) • AI/AN cases include AI/AN Hispanics • IHS cases are all AI/AN cases reported from IHS service counties. If counties are split between IHS Areas, the cases are proportioned to each IHS Area based on established percentages (Appendix B) • No states are excluded • Cases with unknown age, race/ethnicity values are re-distributed to known categories based on percentage of cases in each race group • Cases among persons 0-9 years of age are not shown as an age group but are included in the All Ages Total • Total cases may not equal male plus female cases because of rounding in the re-distribution process • Adjusted Total U.S. cases have no exclusions but age and sex unknowns are re-distributed. STD source for Total U.S. cases: 2009 CDC STD Surveillance Report, Table 10

**Table 9B: IHS Area—Chlamydia rates by age group**

Population source: NCHS bridged-race file of the U.S. Census 2000 population with exclusions for IHS • AI/AN Hispanics are included in the AI/AN populations • IHS populations are based on AI/AN living in IHS service counties. If counties are split between IHS Areas, the populations are proportioned based on established percentages (Appendix B) • Rates among persons 0-9 years of age are not shown as an age group but are included in the All Ages Total • 2009 Total U.S. rates are computed using 2008 populations. STD source for Total U.S. rates: 2009 CDC STD Surveillance Report, Table 10

**Table 10A: IHS Area—Gonorrhea cases by year**

Data source: NETSS, 1998-2009 (IHS cases) and STDSS Morbidity file (U.S. Total cases) • AI/AN cases include AI/AN Hispanics • IHS cases are all AI/AN cases reported from IHS service counties. If counties are split between IHS Areas, the cases are proportioned to each IHS Area based on established percentages (Appendix B). • States with >50% unknown race/ethnicity values are excluded (see the IHS Area STD Profiles section for details) • Cases with unknown age, race/ethnicity and sex values are re-distributed to known categories based on percentage of cases in each race group • Total U.S. cases are unadjusted and match IHS National Table 1A

STD source for Total U.S. cases: 2009 CDC STD Surveillance Report, Tables 1 and 13-15

**Table 10B: IHS Area—Gonorrhea cases by year**

Population source: NCHS bridged-race file of the U.S. Census 2000 population with exclusions for IHS • AI/AN Hispanics are included in the AI/AN populations • IHS populations are based on AI/AN living in IHS service counties. If counties are split between IHS Areas, the populations are proportioned based on established percentages (Appendix B) • Total U.S. rates are unadjusted and match National Table 1B • 2009 Total U.S. rates are computed using 2008 populations. STD source for Total U.S. rates: 2009 CDC Surveillance Report, Tables 1 and 13-15

**Table 11A: IHS Area—Gonorrhea cases by age group**

Data source: NETSS, 1998-2009 (IHS cases) and STDSS Age Race/Ethnicity-Sex file, 2009 (U.S. Total cases) • AI/AN cases include AI/AN Hispanics • IHS cases are all AI/AN cases reported from IHS service counties. If counties are split between IHS Areas, the cases are proportioned to each IHS Area based on established percentages (Appendix B) • No states are excluded • Cases with unknown age, race/ethnicity and sex values are re-distributed to known categories based on percentage of cases in each race group • Total cases may not equal male plus female cases because of rounding in the redistribution process • Cases among persons 0-9 years of age are not shown as an age group but are included in the All Ages Total • Adjusted Total U.S. cases by sex and age have no exclusions but age and sex unknowns are re-distributed STD source for Total U.S. cases: 2009 CDC STD Surveillance Report, Table 20

**Table 11B: IHS Area—Gonorrhea rates by age group**

Population source: NCHS bridged-race file of the U.S. Census 2000 population with exclusions for IHS • AI/AN Hispanics are included in the AI/AN populations • IHS Populations are based on AI/ANs living in IHS service counties. If counties are split between IHS Areas, the populations are proportioned based on established percentages (Appendix B) • Rates among persons 0-9 years of age are not shown as an age group but are included in the All Ages Total • 2009 Total U.S. rates are computed using 2008 populations. STD source for Total U.S. rates: 2009 CDC STD Surveillance Report, Table 20

**Table 12A: IHS Area—P&S cases by year**

Data source: NETSS, 1998-2009 (IHS cases) and STDSS Morbidity file (U.S. Total cases) • AI/AN cases include AI/AN Hispanics • IHS cases are all AI/AN cases reported from IHS service counties. If counties are split between IHS Areas, the cases are proportioned to each IHS Area based on established percentages (Appendix B) • States with >50% unknown race/ethnicity values are excluded (see the IHS Area STD Profiles section for details) • Cases with unknown age, race/ethnicity and sex values are re-distributed to known categories based on percentage of cases in each race group • Total U.S. cases are unadjusted and match IHS National Table 1A STD source for Total U.S. cases: 2009 CDC STD Surveillance Report, Tables 1 and 26-28

**Table 12B: IHS Area—P&S rates by year**

Population source: NCHS bridged-race file of the U.S. Census 2000 population with exclusions for IHS • AI/AN Hispanics are included in the AI/AN populations • IHS Populations are based on AI/ANs living in IHS service counties. If counties are split between IHS Areas, the populations are proportioned based on established percentages (Appendix B) • Total U.S. rates are unadjusted and match National Table 1B • 2009 Total U.S. rates are computed using 2008 populations. STD source for Total U.S. rates: 2009 CDC Surveillance Report, Tables 1 and 26-28

**Table 13A: IHS Area—P&S cases by age group**

Data source: NETSS, 1998-2009 (IHS cases) and STDSS Age-Race/Ethnicity-Sex file, 2009 (U.S. Total cases) • AI/AN cases include AI/AN Hispanics • IHS cases are all AI/AN cases reported from IHS service counties. If counties are split between IHS Areas, the cases are proportioned to each IHS Area based on established percentages (Appendix B) • No states are excluded • Cases with unknown age, race/ethnicity values are redistributed to known categories based on percentage of cases in each race group • Cases among persons 0-9 years of age are not shown as an age group but are included in the All Ages Total • Total cases may not equal male plus female cases because of rounding in the re-distribution process • Adjusted Total U.S. cases by sex and age have no exclusions but are redistributed. STD source for Total U.S. cases: 2009 CDC STD Surveillance Report, Table 33

**Table 13B: IHS Area—P&S rates by age group**

Population source: NCHS bridged-race file of the U.S. Census 2000 population with exclusions for IHS • AI/AN Hispanics are included in the AI/AN populations • IHS Populations are based on AI/ANs living in IHS service counties. If counties are split between IHS Areas, the populations are proportioned based on established percentages (Appendix B) • Rates among persons 0-9 years of age are not shown as an age group but are included in the All Ages Total • 2009 Total U.S. rates are computed using 2008 populations. STD source for Total U.S. rates: 2009 CDC STD Surveillance Report, Table 33

# Appendix A

## Comparison of IHS Service Population and IHS Eligible Population - 2008 Estimates

IHS Area	IHS Service Population (Official)	IHS Eligible Population (STD Report)	Population Difference	% Difference
Aberdeen	120,359	108,780	-11,579	-10.6%
Alaska	125,297	112,063	-13,234	-11.8%
Albuquerque	107,863	105,199	-2,664	-2.5%
Bemidji	121,603	115,145	-6,458	-5.6%
Billings	68,630	63,763	-4,867	-7.6%
California	182,825	197,801	14,976	7.6%
Nashville	128,489	127,998	-491	-0.4%
Navajo	245,831	225,017	-20,814	-9.2%
Oklahoma City	366,686	334,445	-32,241	-9.6%
Phoenix	203,832	233,945	30,113	12.9%
Portland	201,610	197,952	-3,658	-1.8%
Tucson	36,525	40,392	3,867	9.6%
<b>IHS Total</b>	<b>1,909,550</b>	<b>1,862,500</b>	<b>-47,050</b>	<b>-2.5%</b>

# Appendix B

## Counties Shared Between IHS Areas or Partially Contained Within an IHS Area -2006 Percentage Splits

State and County	IHS Area	Percentage of County Population assigned to IHS Area
<b>Arizona</b>		
Apache County	Navajo	98.747
	Phoenix	1.253
Coconino County	Navajo	97.404
	Phoenix	2.596
Maricopa County	Phoenix	99.73
	Tucson	0.27
Navajo County	Navajo	62.014
	Phoenix	37.986
Pinal County	Phoenix	93.371
	Tucson	6.629
<b>California</b>		
Fresno County	California	47.62
	Non-Service Area	52.38
Imperial County	Phoenix	92.577
	California	7.423
Riverside County	California	99.243
	Phoenix	0.757
San Bernardino County	California	95.668
	Phoenix	4.332
San Diego County	California	76
	Non-Service Area	24
Santa Barbara County	California	23.999
	Non-Service Area	76.001

Appendix B, Continued

State and County	IHS Area	Percentage of County Population assigned to IHS Area
<b>New Mexico</b>		
Cibola County	Albuquerque	98.667
	Navajo	1.333
McKinley County	Navajo	83.562
	Albuquerque	16.438
Rio Arriba County	Albuquerque	98.679
	Navajo	1.321
Sandoval County	Albuquerque	77.624
	Navajo	22.376
<b>Utah</b>		
Kane County	Phoenix	62.338
	Navajo	37.662
San Juan County	Navajo	96.428
	Albuquerque	3.572

# References

1. Indian Health Service. Regional Differences in Indian Health, 2002-2003 Edition. Washington, DC: U.S. Department of Health and Human Services, 2008.
2. Indian Health Service. Trends in Indian Health, 2002-2003 Edition. Washington, DC: U.S. Department of Health and Human Services, February, 2009.
3. Centers for Disease Control and Prevention. Sexually Transmitted Disease Surveillance, 2009. Atlanta, GA: U.S. Department of Health and Human Services, November, 2010.
4. Wong D, Swint E, Paisano, EL, Cheek JE. Indian Health Surveillance Report—Sexually Transmitted Diseases 2004. Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention and Indian Health Service, November 2006.
5. Centers for Disease Control and Prevention and the Indian Health Service. Indian Health Surveillance Report—Sexually Transmitted Diseases 2007. Atlanta, GA: U.S. Department of Health and Human Services, September 2009.
6. Indian Health Service. Projected American Indian and Alaska Native IHS Service Population by Area, 2009, December 2010
7. Centers for Disease Control and Prevention. Summary of Notifiable Diseases—United States, 2009. Morbidity and Mortality Weekly Report. May 13, 2011;58(53):1-100.
8. National Center for Health Statistics. Data Files and Documentation: Vintage 2007 Bridged-Race Postcensal Population Estimates. Assessed at <http://www.cdc.gov/nchs/about/major/dvs/popbridge/datadoc.htm>
9. Office of Management and Budget. Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity. Washington, DC. October 1997. Accessed at <http://www.whitehouse.gov/omb/fedreg/ombdir15.html>
10. Centers for Disease Control, CDC Wonder: Intercensal Population Estimates, Bureau of the Census, Ethnicity, 1981-1989. Accessed at [http://wonder.cdc.gov/wonder/sci\\_data/census/inter/type\\_txt/i8189eth.asp](http://wonder.cdc.gov/wonder/sci_data/census/inter/type_txt/i8189eth.asp)
11. Indian Health Service. Geographic Composition of the Contract Health Service Deliver Areas (CHSDA) and Service Delivery Areas (SDA) of the Indian Health Service. 72 Federal Register 119 (31 June 2007), p. 34262. Accessed at [http://www.ihs.gov/nonmedicalprograms/chs/documents/chsda\\_federal\\_register\\_notice\\_june\\_21\\_2007.doc](http://www.ihs.gov/nonmedicalprograms/chs/documents/chsda_federal_register_notice_june_21_2007.doc)
12. U.S. Department of Health and Human Services. Healthy People 2010. 2nd Ed. Understanding and Improving Health and Objectives for Improving Health. 2 vols. Washington, DC: U.S. Government Printing Office, November 2000.
13. Indian Health Service. Adjusting for miscoding of Indian race on state death certificates. (Report) Rockville, MD: US Public Health Service; 1996.
14. Thoroughman DA, Frederickson D, Cameron HD, Shelby LK, Cheek JE. Racial misclassification of American Indians in Oklahoma State surveillance data for sexually transmitted diseases. American Journal of Epidemiology. 2002;155(12):1137-41.
15. Centers for Disease Control and Prevention. Case definitions for infectious conditions under public health surveillance, 1997;46 (No. RR-10;1).
16. Dicker LW, Mosure DJ, Levine WC. Chlamydia positivity versus prevalence: what's the difference? Sexually Transmitted Diseases. 1998;25:251-3.



17. Weinstock H, Berman S, Cates W. Sexually transmitted diseases among American youth: incidence and prevalence estimates, 2000. *Perspectives on Sexual and Reproductive Health*. 2004;36(1):6-10.
18. Chesson HW, Blandford JM, Gift TL, Tao G, Irwin KL. The estimated direct medical cost of Sexually Transmitted Diseases among American youth, 2000. *Perspectives on Sexual and Reproductive Health*. 2004;36(1):11-19.
19. U.S. Census Bureau. *The American Indian and Alaska Native Population 2000—Census 2000 Brief*. Washington, DC:U.S. Census Bureau, February 2002.
20. Centers for Disease Control and Prevention. *Sexually Transmitted Disease Surveillance, 2008*. Atlanta, GA: U.S. Department of Health and Human Services, November, 2009.
21. Division of STD Prevention. *Tracking the Hidden Epidemics: Trends in STDs in the United States 2000*. Atlanta, GA: Department of Health and Human Services; 2000:1-33.
22. Cates W Jr, Wasserheit JN. Genital chlamydial infections: epidemiology and reproductive sequelae. *American Journal of Obstetrics and Gynecology*. 1991;164:1771-81.
23. Fleming DT, Wasserheit JN. From epidemiological synergy to public health policy and practice: The contribution of other sexually transmitted diseases to sexual transmission of HIV infection. *Sexually Transmitted Infections*. 1999;75:3-17.
24. Holmes KK, Mardh PA, Sparling PF, et al. *Sexually Transmitted Diseases, 3rd Edition*, McGraw Hill. 1999. p1165-89.
25. Divisions of STD Prevention. *The National Plan to Eliminate Syphilis from the United States*. National Center of HIV, STD, and TB Prevention, Centers for Disease Control and Prevention, 1999.
26. Centers for Disease Control and Prevention. Primary and Secondary Syphilis—United States, 2003-2004. *MMWR*. 2006;55(10): 269-273.

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