

# **Sexually Transmitted Disease Surveillance 2001**

**Division of STD Prevention  
September 2002**

DEPARTMENT OF HEALTH AND HUMAN SERVICES  
Centers for Disease Control and Prevention  
National Center for HIV, STD, and TB Prevention  
Division of STD Prevention  
Atlanta, Georgia 30333



Centers for Disease Control and  
Prevention .....Julie Louise Gerberding, M.D., M.P.H.  
*Director*

National Center for  
HIV, STD, and TB Prevention.....Harold W. Jaffe, M.D.  
*Acting Director*

Division of STD Prevention.....Harold W. Jaffe, M.D.  
*Acting Director*

Epidemiology and Surveillance  
Branch .....Stuart M. Berman, M.D., Sc.M.  
*Chief*

Surveillance and Special Studies  
Section.....Hillard S. Weinstock, M.D., M.P.H.  
*Chief*

Statistics and Data Management  
Branch .....Owen J. Devine, Ph.D.  
*Chief*

Melinda L. Flock, M.S.P.H.  
*Unit Chief*

Rose Horsley  
*Unit Chief*

## Copyright Information

All material contained in this report is in the public domain and may be used and reprinted without special permission; citation to source, however, is appreciated.

## Suggested Citation

Centers for Disease Control and Prevention. *Sexually Transmitted Disease Surveillance, 2001*. Atlanta, GA: U.S. Department of Health and Human Services, September 2002.

Copies can be obtained from the Training and Health Communications Branch, National Center for HIV, STD, and TB Prevention, Centers for Disease Control and Prevention, 1600 Clifton Road, Mailstop E-06, Atlanta, Georgia 30333. Printed copies can also be obtained through the Internet on-line ordering system at the web site listed below.

This report is also available by Internet via the CDC home page at: **<http://www.cdc.gov/std/stats/>**

## Foreword

“STDs are hidden epidemics of enormous health and economic consequence in the United States. They are hidden because many Americans are reluctant to address sexual health issues in an open way and because of the biologic and social characteristics of these diseases. All Americans have an interest in STD prevention because all communities are impacted by STDs and all individuals directly or indirectly pay for the costs of these diseases. STDs are public health problems that lack easy solutions because they are rooted in human behavior and fundamental societal problems. Indeed, there are many obstacles to effective prevention efforts. The first hurdle will be to confront the reluctance of American society to openly confront issues surrounding sexuality and STDs. Despite the barriers, there are existing individual- and community-based interventions that are effective and can be implemented immediately. That is why a multifaceted approach is necessary to both the individual and community levels.

To successfully prevent STDs, many stakeholders need to redefine their mission, refocus their efforts, modify how they deliver services, and accept new responsibilities. In this process, strong leadership, innovative thinking, partnerships, and adequate resources will be required. The additional investment required to effectively prevent STDs may be considerable, but it is negligible when compared with the likely return on the investment. The process of preventing STDs must be a collaborative one. No one agency, organization, or sector can effectively do it alone; all members of the community must do their part. A successful national initiative to confront and prevent STDs requires widespread public awareness and participation and bold national leadership from the highest levels.”<sup>1</sup>

---

<sup>1</sup> Concluding statement from the Institute of Medicine’s Summary Report, *The Hidden Epidemic: Confronting Sexually Transmitted Diseases*, National Academy Press, Washington, DC, 1997, p.43.

## Preface

*Sexually Transmitted Disease Surveillance, 2001* presents statistics and trends for sexually transmitted diseases (STDs) in the United States through 2001. This annual publication is intended as a reference document for policy makers, program managers, health planners, researchers, and others who are concerned with the public health implications of these diseases. The figures and tables in this edition supersede those in earlier publications of these data.

The surveillance information in this report is based on the following sources of data: (1) case reports from the STD project areas; (2) prevalence data from the Regional Infertility Prevention Program, the National Job Training Program (formerly the Job Corps), the Jail STD Prevalence Monitoring Projects, the Adolescent Women Reproductive Health Monitoring Project, the Men Who Have Sex With Men (MSM) Prevalence Monitoring Project, and the Indian Health Service; (3) sentinel surveillance of gonococcal antimicrobial resistance from the Gonococcal Isolate Surveillance Project (GISP); and (4) national sample surveys implemented by federal and private organizations.

The STD surveillance systems operated by state and local STD control programs, which provide the case report data, are the sources of many of the figures and all of the statistical tables in this publication. These systems are an integral part of program management at all levels of STD prevention and control in the United States. Because of incomplete diagnosis and reporting, the number of STD cases reported to CDC is less than the actual number of cases occurring among the United States population.

*Sexually Transmitted Disease Surveillance, 2001* consists of four parts. The **National Profile** contains figures that provide an overview of STD morbidity in the United States. The accompanying text identifies major findings and trends for selected STDs. The **Special Focus Profiles** contain figures and text describing STDs in selected subgroups and populations that are a focus of national and state prevention efforts. The **Detailed Tables** provide statistical information about STDs at the state, county, city, and national levels. The **Appendix** includes the sources and limitations of the data used to produce this report. Included in this section, are Figures A1-A3 that show progress made by states in converting from hardcopy aggregate reporting to electronic line-listed data.

Selected figures and tables in this document identify goals that reflect progress towards some of the Healthy People 2010 (HP2010) national health status objectives for STDs.<sup>1</sup> **Appendix** Table A1 displays progress made towards the HP2010 Priority Area 25, for STDs. These objectives are used as reference points throughout this edition of *Sexually Transmitted Disease Surveillance, 2001*.

Any comments and suggestions that would improve the usefulness of future publications are appreciated and should be sent to Director, Division of STD Prevention, National Center for HIV, STD, and TB Prevention, Centers for Disease Control and Prevention, 1600 Clifton Road, Mailstop E-02, Atlanta, Georgia, 30333.

---

<sup>1</sup> U.S. Department of Health and Human Services. *Healthy People 2010*. 2nd ed. With Understanding and Improving Health and Objectives for Improving Health. 2 vols. Washington, DC: U.S. Government Printing Office, November 2000.

## **Acknowledgments**

Publication of this report would not have been possible without the contributions of the State and Territorial Health Departments and the Sexually Transmitted Disease Control Programs, the Regional Infertility Prevention Program, the U.S. Department of Labor and the Indian Health Service, which provided surveillance data to the Centers for Disease Control and Prevention.

This report was prepared by the following staff and contractors of the Division of STD Prevention, National Center for HIV, STD, and TB Prevention, Centers for Disease Control and Prevention: Stu Berman, Susan Bradley, Jim Braxton, Sharon Clanton, Susan Conner, Deblina Datta, Darlene Davis, Owen Devine, Linda Webster Dicker, Melinda Flock, LaZetta Grier, Alesia Harvey, James Heffelfinger, Rose Horsley, Kathleen Hutchins, Richard Kahn, Catherine McLean, Debra Mosure, Michael Phillips, LuEtta Schneider, Maya Sternberg, Katherine Stone, Emmett Swint, Susan Wang, Hillard Weinstock, and Akbar Zaidi.

## Contents

|                                                                    |      |
|--------------------------------------------------------------------|------|
| Foreword . . . . .                                                 | v    |
| Preface . . . . .                                                  | vi   |
| Acknowledgments . . . . .                                          | vii  |
| Figures in the National Profile . . . . .                          | ix   |
| Additional Figures in the Special Focus Profiles . . . . .         | x    |
| Tables in the National Profile . . . . .                           | xiii |
| Geographic Divisions of the United States . . . . .                | xvi  |
| National Overview of Sexually Transmitted Diseases, 2001 . . . . . | 1    |
| <b>National Profile</b>                                            |      |
| Introduction . . . . .                                             | 5    |
| Chlamydia . . . . .                                                | 7    |
| Gonorrhea . . . . .                                                | 15   |
| Syphilis . . . . .                                                 | 25   |
| Other Sexually Transmitted Diseases . . . . .                      | 35   |
| <b>Special Focus Profiles</b>                                      |      |
| Introduction . . . . .                                             | 39   |
| STDs in Women and Infants . . . . .                                | 41   |
| STDs in Adolescents and Young Adults . . . . .                     | 51   |
| STDs in Racial and Ethnic Minorities . . . . .                     | 59   |
| STDs Among Men Who Have Sex with Men . . . . .                     | 65   |
| STDs in Persons Entering Corrections Facilities . . . . .          | 71   |
| STDs in the South . . . . .                                        | 77   |
| <b>Tables</b>                                                      |      |
| National Summary Tables . . . . .                                  | 81   |
| Chlamydia Tables . . . . .                                         | 84   |
| Gonorrhea Tables . . . . .                                         | 96   |
| Syphilis Tables . . . . .                                          | 108  |
| Chancroid Tables . . . . .                                         | 132  |
| <b>Appendix</b>                                                    |      |
| Sources and Limitations of Data . . . . .                          | 135  |
| NETSS Figures A1 - A3 . . . . .                                    | 141  |
| Healthy People 2010 Table A1 . . . . .                             | 143  |
| STD Surveillance Case Definitions . . . . .                        | 145  |
| Contributors . . . . .                                             | 154  |

## Figures in the National Profile

### Chlamydia

|           |                                                                                                                                                |    |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Figure 1. | Chlamydia — Number of states that require reporting of <i>Chlamydia trachomatis</i> infections: United States, 1987–2001 . . . . .             | 10 |
| Figure 2. | Chlamydia — Reported rates: United States, 1984–2001 . . . . .                                                                                 | 10 |
| Figure 3. | Chlamydia — Rates by state: United States and outlying areas, 2001 . . . . .                                                                   | 11 |
| Figure 4. | Chlamydia — Rates by region: United States, 1984–2001 . . . . .                                                                                | 11 |
| Figure 5. | Chlamydia — Rates by sex: United States, 1984–2001 . . . . .                                                                                   | 12 |
| Figure 6. | Chlamydia — Age- and sex-specific rates: United States, 2001 . . . . .                                                                         | 12 |
| Figure 7. | Chlamydia — Positivity among 15-24 year old women tested in family planning clinics by state: United States and outlying areas, 2001 . . . . . | 13 |
| Figure 8. | Chlamydia — Trends in positivity among 15-44 year old women tested in family planning clinics by HHS regions, 1988–2001 . . . . .              | 13 |

### Gonorrhea

|            |                                                                                                                                                                                    |    |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Figure 9.  | Gonorrhea — Reported rates: United States, 1970–2001 and the Healthy People year 2010 objective. . . . .                                                                           | 18 |
| Figure 10. | Gonorrhea — Rates by state: United States and outlying areas, 2001 . . . . .                                                                                                       | 18 |
| Figure 11. | Gonorrhea — Rates by region: United States, 1981–2001 and the Healthy People year 2010 objective. . . . .                                                                          | 19 |
| Figure 12. | Gonorrhea — Rates by sex: United States, 1981–2001 and the Healthy People year 2010 objective. . . . .                                                                             | 19 |
| Figure 13. | Gonorrhea — Rates by race and ethnicity: United States, 1981–2001 and the Healthy People year 2010 objective . . . . .                                                             | 20 |
| Figure 14. | Gonorrhea — Age- and sex-specific rates: United States, 2001 . . . . .                                                                                                             | 20 |
| Figure 15. | Gonorrhea — Positivity among 15-24 year old women tested in family planning clinics by state: United States and outlying areas, 2001 . . . . .                                     | 21 |
| Figure 16. | Gonococcal Isolate Surveillance Project (GISP) — Location of participating clinics and regional laboratories: United States, 2001 . . . . .                                        | 21 |
| Figure 17. | Gonococcal Isolate Surveillance Project (GISP) — Penicillin and tetracycline resistance among GISP isolates, 2001 . . . . .                                                        | 22 |
| Figure 18. | Gonococcal Isolate Surveillance Project (GISP) — Percent of <i>Neisseria gonorrhoeae</i> isolates with resistance or intermediate resistance to ciprofloxacin, 1990–2001 . . . . . | 22 |
| Figure 19. | Gonococcal Isolate Surveillance Project (GISP) — Percent of men with gonorrhea who had a previous gonorrhea infection, 1991–2001 . . . . .                                         | 23 |

### Syphilis

|            |                                                                                                                                                                |    |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Figure 20. | Syphilis — Reported cases by stage of illness: United States, 1941–2001 . . . . .                                                                              | 28 |
| Figure 21. | Primary and secondary syphilis — Reported rates: United States, 1970–2001 and the Healthy People year 2010 objective . . . . .                                 | 28 |
| Figure 22. | Primary and secondary syphilis — Rates by state: United States and outlying areas, 2001 . . . . .                                                              | 29 |
| Figure 23. | Primary and secondary syphilis — Counties with rates above and counties with rates below the Healthy People year 2010 objective: United States, 2001 . . . . . | 29 |

|            |                                                                                                                                                         |    |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Figure 24. | Primary and secondary syphilis — Rates by region: United States, 1981–2001 and the Healthy People year 2010 objective . . . . .                         | 30 |
| Figure 25. | Primary and secondary syphilis — Rates by sex: United States, 1981–2001 and the Healthy People year 2010 objective . . . . .                            | 30 |
| Figure 26. | Primary and secondary syphilis — Rates by race and ethnicity: United States, 1981–2001 and the Healthy People year 2010 objective . . . . .             | 31 |
| Figure 27. | Primary and secondary syphilis — Male to female rate ratios: United States, 1981–2001 . . . . .                                                         | 31 |
| Figure 28. | Primary and secondary syphilis — Age- and sex-specific rates: United States, 2001 . . . . .                                                             | 32 |
| Figure 29. | Congenital syphilis — Reported cases for infants <1 year of age and rates of primary and secondary syphilis among women: United States, 1970–2001 . . . | 32 |
| Figure 30. | Congenital syphilis — Rates for infants <1 year of age: United States, 1981–2001 and the Healthy People year 2010 objective . . . . .                   | 33 |

### **Other Sexually Transmitted Diseases**

|            |                                                                                                                                                        |    |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Figure 31. | Chancroid — Reported cases: United States, 1981–2001 . . . . .                                                                                         | 36 |
| Figure 32. | Genital herpes — Initial visits to physicians' offices: United States, 1966–2001 . . . . .                                                             | 36 |
| Figure 33. | Genital herpes simplex virus type 2 infections — Percent seroprevalence according to age in NHANES II (1976–1980) and NHANES III (1988–1994) . . . . . | 37 |
| Figure 34. | Genital warts — Initial visits to physicians' offices: United States, 1966–2001 . . . . .                                                              | 37 |
| Figure 35. | Nonspecific urethritis — Initial visits to physicians' offices by men: United States, 1966–2001 . . . . .                                              | 38 |
| Figure 36. | Trichomonal and other vaginal infections — Initial visits to physicians' offices: United States, 1966–2001 . . . . .                                   | 38 |

## **Additional Figures in the Special Focus Profiles**

### **STDs in Women and Infants**

|           |                                                                                                                                         |    |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|----|
| Figure A. | Chlamydia — Rates for women by state: United States and outlying areas, 2001 . . . . .                                                  | 45 |
| Figure B. | Gonorrhea — Rates for women by state: United States and outlying areas, 2001 . . . . .                                                  | 45 |
| Figure C. | Primary and secondary syphilis — Rates for women by state: United States and outlying areas, 2001 . . . . .                             | 46 |
| Figure D. | Congenital syphilis — Rates for infants <1 year of age by state: United States and outlying areas, 2001 . . . . .                       | 46 |
| Figure E. | Congenital syphilis — Cases by prenatal care utilization: United States, 1995–2001 . . . . .                                            | 47 |
| Figure F. | Chlamydia — Positivity among 15–24 year old women tested in prenatal clinics by state: United States and outlying areas, 2001 . . . . . | 47 |
| Figure G. | Gonorrhea — Positivity among 15–24 year old women tested in prenatal clinics by state: United States and outlying areas, 2001 . . . . . | 48 |

|           |                                                                                                                                 |    |
|-----------|---------------------------------------------------------------------------------------------------------------------------------|----|
| Figure H. | Ectopic pregnancy — Hospitalizations of women 15-44 years of age: United States, 1980-2000 .....                                | 48 |
| Figure I. | Pelvic inflammatory disease — Hospitalizations of women 15-44 years of age: United States, 1980-2000 .....                      | 49 |
| Figure J. | Pelvic inflammatory disease — Initial visits to physicians' offices by women 15-44 years of age: United States, 1980-2001 ..... | 49 |

### **STDs in Adolescents and Young Adults**

|           |                                                                                                                                                                  |    |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Figure K. | Chlamydia — Positivity among women tested in family planning clinics by age group: Region X, 1988-2001 .....                                                     | 53 |
| Figure L. | Chlamydia — Prevalence among 16-24 year-old women entering the National Job Training Program by state of residence: United States and outlying areas, 2001 ..... | 53 |
| Figure M. | Chlamydia — Adolescent Women Reproductive Health Monitoring Project chlamydia positivity by venue and project area, 2001 .....                                   | 54 |
| Figure N. | Gonorrhea — Adolescent Women Reproductive Health Monitoring Project gonorrhea positivity by venue and project area, 2001 .....                                   | 54 |
| Figure O. | Gonorrhea — Prevalence among 16-24 year-old women entering the National Job Training Program by state of residence: United States and outlying areas, 2001 ..... | 55 |
| Figure P. | Gonorrhea — Age-specific rates among women 10-44 years of age: United States, 1981-2001 .....                                                                    | 55 |
| Figure Q. | Gonorrhea — Age-specific rates among men 10-44 years of age: United States, 1981-2001 .....                                                                      | 56 |
| Figure R. | Primary and secondary syphilis — Age-specific rates among women 10-44 years of age: United States, 1981-2001 .....                                               | 56 |
| Figure S. | Primary and secondary syphilis — Age-specific rates among men 10-44 years of age: United States, 1981-2001 .....                                                 | 57 |

### **STDs in Racial and Ethnic Minorities**

|           |                                                                                                                                                                  |    |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Figure T. | Chlamydia — Positivity among women tested in family planning clinics by race and ethnicity: Region X, 1988-2001 .....                                            | 61 |
| Figure U. | Chlamydia — Positivity among 15-30 year old women tested in Indian Health Service Clinics by IHS areas, 2001 .....                                               | 61 |
| Figure V. | Gonorrhea — Reported rates for 15-19 year old females by race and ethnicity: United States, 1981-2001 .....                                                      | 62 |
| Figure W. | Gonorrhea — Reported rates for 15-19 year old males by race and ethnicity: United States, 1981-2001 .....                                                        | 62 |
| Figure X. | Primary and secondary syphilis — Reported rates for 15-19 year old females by race and ethnicity: United States, 1981-2001 .....                                 | 63 |
| Figure Y. | Primary and secondary syphilis — Reported rates for 15-19 year old males by race and ethnicity: United States, 1981-2001 .....                                   | 63 |
| Figure Z. | Congenital syphilis — Rates for infants <1 year of age by mother's race and ethnicity: United States, 1991-2001 and the Healthy People year 2010 objective ..... | 64 |

### **STDs Among Men Who Have Sex with Men**

|            |                                                                                                                                                             |    |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Figure AA. | MSM Prevalence Monitoring Project — Median test positivity for gonorrhea, chlamydia, and HIV among MSM attending STD clinics, by race/ethnicity, 2001 ..... | 68 |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----|

|                                                                                                                                                                                                   |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Figure BB. MSM Prevalence Monitoring Project — Median test positivity for gonorrhea and chlamydia among MSM attending STD clinics, by HIV status, 2001 . . . . .                                  | 68 |
| Figure CC. Gonococcal Isolate Surveillance Project (GISP) — Percent of gonorrhea cases that occurred among MSM, 1988-2001 . . . . .                                                               | 69 |
| Figure DD. Gonococcal Isolate Surveillance Project (GISP) — Percent of <i>Neisseria gonorrhoeae</i> isolates obtained from MSM attending STD clinics in 16 cities, 1999, 2000, and 2001 . . . . . | 69 |

## **STDs in Persons Entering Corrections Facilities**

|                                                                                                                                          |    |
|------------------------------------------------------------------------------------------------------------------------------------------|----|
| Figure EE. Syphilis serologic tests — Percent seroreactivity in women entering juvenile and adult corrections facilities, 2001 . . . . . | 73 |
| Figure FF. Syphilis serologic tests — Percent seroreactivity in men entering juvenile and adult corrections facilities, 2001 . . . . .   | 73 |
| Figure GG. Chlamydia — Positivity in women entering juvenile and adult corrections facilities, 2001 . . . . .                            | 74 |
| Figure HH. Chlamydia — Positivity in men entering juvenile and adult corrections facilities, 2001 . . . . .                              | 74 |
| Figure II. Gonorrhea — Positivity in women entering juvenile and adult corrections facilities, 2001 . . . . .                            | 75 |
| Figure JJ. Gonorrhea — Positivity in men entering juvenile and adult corrections facilities, 2001 . . . . .                              | 75 |

## **STDs in the South**

|                                                                                       |    |
|---------------------------------------------------------------------------------------|----|
| Figure KK. South — Primary and secondary syphilis case rates by county, 2001. . . . . | 78 |
| Figure LL. South — Chlamydia case rates by county, 2001 . . . . .                     | 78 |
| Figure MM. South — Gonorrhea case rates by county, 2001 . . . . .                     | 79 |

## **Sources and Limitations of Data**

|                                                                                                                                                                 |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Figure A1. Chlamydia — National Electronic Telecommunications System for Surveillance (NETSS) transmission status by state, 2001 . . . . .                      | 141 |
| Figure A2. Gonorrhea — National Electronic Telecommunications System for Surveillance (NETSS) transmission status by state, 2001 . . . . .                      | 141 |
| Figure A3. Primary and secondary syphilis — National Electronic Telecommunications System for Surveillance (NETSS) transmission status by state, 2001 . . . . . | 142 |

## Tables in the National Profile

### National Summary Tables

|          |                                                                                                                                                           |    |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Table 1. | Cases of sexually transmitted diseases reported by state health departments and rates per 100,000 civilian population: United States, 1941–2001 . . . . . | 81 |
| Table 2. | Reported cases of sexually transmitted disease by sex and reporting source: United States, 2001 . . . . .                                                 | 83 |

### Chlamydia

|            |                                                                                                                                                                            |    |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Table 3.   | Chlamydia — Reported cases and rates by state/area, ranked by rates: United States, 2001 . . . . .                                                                         | 84 |
| Table 4.   | Chlamydia — Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . .                          | 85 |
| Table 5.   | Chlamydia — Women – Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001 . . . .                    | 86 |
| Table 6.   | Chlamydia — Men – Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . .                    | 87 |
| Table 7.   | Chlamydia — Reported cases and rates in selected cities of >200,000 population, ranked by rates: United States, 2001 . . . . .                                             | 88 |
| Table 8.   | Chlamydia — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . .         | 89 |
| Table 9.   | Chlamydia — Women – Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . . | 90 |
| Table 10.  | Chlamydia — Men – Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . .   | 91 |
| Table 11.  | Chlamydia — Reported cases and rates per 100,000 population by age and sex: United States, 1997–2001 . . . . .                                                             | 92 |
| Table 12A. | Chlamydia — Reported cases by age, sex, and race/ethnicity: United States, 1997–2001 . . . . .                                                                             | 94 |
| Table 12B. | Chlamydia — Reported rates per 100,000 population by age, sex, and race/ethnicity: United States, 1997–2001 . . . . .                                                      | 95 |

### Gonorrhea

|           |                                                                                                                                                                    |     |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Table 13. | Gonorrhea — Reported cases and rates by state/area, ranked by rates: United States, 2001 . . . . .                                                                 | 96  |
| Table 14. | Gonorrhea — Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . .                  | 97  |
| Table 15. | Gonorrhea — Women – Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001 . . . .            | 98  |
| Table 16. | Gonorrhea — Men – Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . .            | 99  |
| Table 17. | Gonorrhea — Reported cases and rates in selected cities of >200,000 population, ranked by rates: United States, 2001 . . . . .                                     | 100 |
| Table 18. | Gonorrhea — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . . | 101 |

|            |                                                                                                                                                                            |     |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Table 19.  | Gonorrhea — Women — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . . | 102 |
| Table 20.  | Gonorrhea — Men — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . .   | 103 |
| Table 21.  | Gonorrhea — Reported cases and rates per 100,000 population by age and sex: United States, 1997–2001 . . . . .                                                             | 104 |
| Table 22A. | Gonorrhea — Reported cases by age, sex, and race/ethnicity: United States, 1997–2001 . . . . .                                                                             | 106 |
| Table 22B. | Gonorrhea — Reported rates per 100,000 population by age, sex, and race/ethnicity: United States, 1997–2001 . . . . .                                                      | 107 |

## Syphilis

|            |                                                                                                                                                                                                 |     |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Table 23.  | All stages of syphilis — Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001 . . .                                      | 108 |
| Table 24.  | All stages of syphilis — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . .                 | 109 |
| Table 25.  | Primary and secondary syphilis — Reported cases and rates by state/area, ranked by rates: United States, 2001 . . . . .                                                                         | 110 |
| Table 26.  | Primary and secondary syphilis — Counties and independent cities ranked by number of reported cases: United States, 2001 . . . . .                                                              | 111 |
| Table 27.  | Primary and secondary syphilis — Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . .                          | 112 |
| Table 28.  | Primary and secondary syphilis — Women — Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . .                  | 113 |
| Table 29.  | Primary and secondary syphilis — Men — Reported cases and rates by state/area listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . .                               | 114 |
| Table 30.  | Primary and secondary syphilis — Reported cases and rates in selected cities of >200,000 population, ranked by rates: United States, 2001 . . . . .                                             | 115 |
| Table 31.  | Primary and secondary syphilis — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . .         | 116 |
| Table 32.  | Primary and secondary syphilis — Women — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . . | 117 |
| Table 33.  | Primary and secondary syphilis — Men — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . .   | 118 |
| Table 34.  | Primary and secondary syphilis — Reported cases and rates per 100,000 population by age and sex: United States, 1997–2001 . . . . .                                                             | 119 |
| Table 35A. | Primary and secondary syphilis — Reported cases by age, sex, and race/ethnicity: United States, 1997–2001 . . . . .                                                                             | 120 |
| Table 35B. | Primary and secondary syphilis — Reported rates per 100,000 population by age, sex, and race/ethnicity: United States, 1997–2001 . . . . .                                                      | 121 |

|           |                                                                                                                                                                                                        |     |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Table 36. | Early latent syphilis — Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001 . . .                                              | 122 |
| Table 37. | Early latent syphilis — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . .                         | 123 |
| Table 38. | Late and late latent syphilis — Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . .                                  | 124 |
| Table 39. | Late and late latent syphilis — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . .                 | 125 |
| Table 40. | Congenital syphilis — Reported cases and rates in infants <1 year of age: United States (excluding outlying areas), 1963–2001 . . . . .                                                                | 126 |
| Table 41. | Congenital syphilis — Reported cases and rates in infants <1 year of age by state/area, ranked by rates: United States, 2001 . . . . .                                                                 | 127 |
| Table 42. | Congenital syphilis — Reported cases and rates in infants <1 year of age by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . .                  | 128 |
| Table 43. | Congenital syphilis — Reported cases and rates in infants <1 year of age in selected cities of >200,000 population, ranked by rates: United States, 2001 . . . . .                                     | 129 |
| Table 44. | Congenital syphilis — Reported cases and rates in infants <1 year of age in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . . | 130 |
| Table 45. | Congenital syphilis — Reported cases and rates in infants <1 year of age by race/ethnicity of mother, 1997–2001 . . . . .                                                                              | 131 |

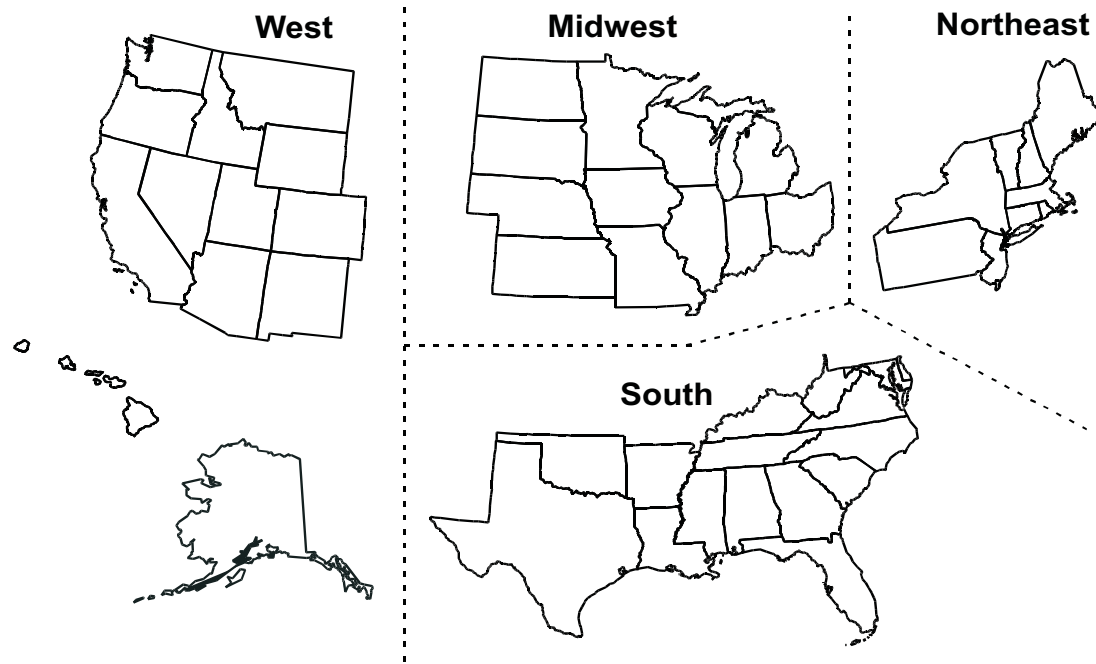
## **Chancroid**

|           |                                                                                                                                                                    |     |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Table 46. | Chancroid — Reported cases and rates by state/area listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . .                             | 132 |
| Table 47. | Chancroid — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001 . . . . . | 133 |

## **Appendix**

|           |                                                                              |     |
|-----------|------------------------------------------------------------------------------|-----|
| Table A1. | Healthy People 2010 Sexually Transmitted Diseases Objective Status . . . . . | 143 |
|-----------|------------------------------------------------------------------------------|-----|

## Geographic Divisions of the United States



### West

Alaska  
Arizona  
California  
Colorado  
Hawaii  
Idaho  
Montana  
Nevada  
New Mexico  
Oregon  
Utah  
Washington  
Wyoming

### Midwest

Illinois  
Indiana  
Iowa  
Kansas  
Michigan  
Minnesota  
Missouri  
Nebraska  
North Dakota  
Ohio  
South Dakota  
Wisconsin

### South

Alabama  
Arkansas  
Delaware  
District of Columbia  
Florida  
Georgia  
Kentucky  
Louisiana  
Maryland  
Mississippi  
North Carolina  
Oklahoma  
South Carolina  
Tennessee  
Texas  
Virginia  
West Virginia

### Northeast

Connecticut  
Maine  
Massachusetts  
New Hampshire  
New Jersey  
New York  
Pennsylvania  
Rhode Island  
Vermont

# National Overview of Sexually Transmitted Diseases, 2001

The logo on the cover of *Sexually Transmitted Disease Surveillance, 2001* is a reminder of the multifaceted, national dimensions of the morbidity, mortality, and costs that result from sexually transmitted diseases (STDs) in the United States. It highlights the central role of STD prevention in improving health among women and infants and in promoting HIV prevention. Organized collaboration among interested, committed public and private organizations is the key to reducing STDs and their related health burdens in our population. As noted in the report of the Institute of Medicine, *The Hidden Epidemic: Confronting Sexually Transmitted Diseases*,<sup>1</sup> surveillance is a key component of our efforts to prevent and control these diseases.

This overview summarizes national surveillance data on the three diseases for which there are federally-funded control programs: chlamydia, gonorrhea, and syphilis. Several observations for 2001 are worthy of note.

## Chlamydia

In 2001, 783,242 cases of genital *Chlamydia trachomatis* infection were reported to CDC (Table 1). This case count corresponds to a rate of 278.3 cases per 100,000 population, an increase of 10.4% compared with the rate of 252.1 in 2000. Rates of reported chlamydial infection among women have been increasing annually since the late 1980s when public programs for screening and treatment of women were first established to avert pelvic inflammatory disease and related complications. Chlamydia screening and reporting are likely to expand further in response to the recently implemented Health Plan Employer Data and Information Set (HEDIS) measure for chlamydia screening of sexually active women 15 to 25 years of age who are provided medical care through managed care organizations.<sup>2</sup> The increase in chlamydia case reports in 2001 most likely represents a continued increase in screening for this infection and also increased use of more sensitive chlamydia screening tests than used in prior years.

In 2001, the overall reported rate of chlamydial infection in the U.S. among women (435.2 cases per 100,000 females) was approximately four times the reported rate among men (113.9 cases per 100,000 males), reflecting the large number of women screened for this disease. However, with the increased availability of urine testing, men are increasingly being tested for chlamydial infection. From 1997 to 2001, the reported chlamydial infection rate in men increased by 61.6% (from 70.5 to 113.9 cases per 100,000 males) compared with a 27.3% increase in women over this period (from 341.8 to 435.2 cases per 100,000 females) (Tables 5 and 6).

Data from multiple sources on prevalence of chlamydial infection in defined populations have been useful in monitoring disease burden and guiding chlamydia screening programs. In 2001, the median state-specific chlamydia test positivity among women 15 to 24 years who were screened at selected family planning clinics in all states, the District of Columbia, Puerto Rico, and the Virgin Islands was 5.6% (range 2.7% to 13.9%) (Figure 7), and at selected prenatal clinics in 22 states and Puerto Rico, 7.4% (range 3.7% to 13.5%) (Figure F). For economically-disadvantaged women 16

to 24 years who entered the National Job Training Program in 2001, from 26 states and Puerto Rico, the median state-specific prevalence was 10.6% (range 5.1% to 18.0%) (Figure L). For women 15 to 30 years screened at Indian Health Service (IHS) clinics in four IHS areas, the prevalence ranged from 3.1% to 10.0% by area (Figure U). For adolescent women entering juvenile detention centers, the median chlamydia positivity by facility was 14.8% (range 4.0% to 25.8%) (Figure GG). It was 9.6% among women attending school-based clinics and 17.6% in street youth (Figure M). For adolescent men entering juvenile detention centers, the median chlamydia positivity was 5.3% by facility (range 1.6% to 11.5%) (Figure HH). Although these data on prevalence are not entirely comparable because of differences in the populations screened, in the performance characteristics of the screening tests, and variations in screening criteria, they provide important information on the continuing high burden of disease in the United States.

In parts of the United States where large scale chlamydia screening programs have been instituted, prevalence of disease has declined substantially. During 1988-2001, among 15-to 44-year-old women participating in the screening programs in Health and Human Services (HHS) Region X family planning clinics, chlamydia test positivity declined 59.2% (from 13.0% to 5.3%) (Figure 8). After adjusting trends in chlamydia positivity to account for changes in laboratory test methods and associated increases in test sensitivity, chlamydia test positivity decreased in five of 10 HHS regions from 2000 to 2001, increased in four regions, and remained the same in one. Although chlamydia positivity has declined in the past year in some regions, most likely due to the effectiveness of screening and treating women, continued expansion of screening programs to populations with higher prevalence of disease may have contributed to the increases in positivity seen in other regions. See the **Appendix** for the composition of the HHS regions.

## Gonorrhea

Following a 73.8% decline in the reported rate of gonorrhea from 1975 (467.7) to 1997 (122.4), overall rates increased in 1998 (131.9) and have since remained essentially unchanged (Table 1). The gonorrhea rate for 2001 (128.5 cases per 100,000 population) was similar to the rates in 2000 (129.0 cases per 100,000 population) and 1999 (132.3 per 100,000 population) (Table 1). The 2001 rate for gonorrhea exceeds the Healthy People 2010 (HP2010) objective of 19 cases per 100,000 population.

The gonorrhea rate in the U.S. among women in 2001 was similar to the rate in 2000 (128.2 and 126.7 cases per 100,000 women, respectively) (Table 15). As in 2000, there were no significant sex differences in gonorrhea rates in 2001 (Tables 15 and 16). Since 1998, there has been little year-to-year change in the reported rates for most 5-year age categories. As with chlamydia, rates of gonorrhea in women are particularly high in 15- to 19-year-olds, and in men, are highest in the 20- to 24-year age group.

In 2001, data on gonorrhea prevalence in defined populations were available from several sources. These data showed a continuing high burden of disease in adolescents and young adults in parts of the United States. Among 15- to 24-year-old women attending selected family planning clinics in 34 states, the District of Columbia, Puerto Rico, and the Virgin Islands, the median state-specific gonorrhea prevalence was 1.0% (range 0.1 % to 3.2%) (Figure 15). For women in this age group attending selected prenatal clinics in 16 states, the median prevalence was 0.9% (range 0.0% to 4.3%) (Figure G). However, for 16- to 24-year-old women entering the National Job Training Program in 17 states and Puerto Rico in 2001, the median state-specific gonorrhea prevalence was 3.7% (range 0.7% to 8.1%) (Figure O).

Antimicrobial resistance in *Neisseria gonorrhoeae* remains a continuing concern. In the mid- to late 1990s, the prevalence of fluoroquinolone-resistant *N. gonorrhoeae* infections increased substantially in Asia and the Pacific Islands, including Hawaii; in 2001, increased numbers of fluoroquinolone-resistant *N. gonorrhoeae* infections were identified in California. Ciprofloxacin, levofloxacin, and ofloxacin are fluoroquinolone antibiotics that are recommended for treatment of gonorrhea by CDC except in areas where fluoroquinolone-resistance levels are found to be elevated. These oral antibiotics are inexpensive and effectively treat gonorrhea with a single dose. Nationally in 2001, 0.7% of *N. gonorrhoeae* isolates tested through the Gonococcal Isolate Surveillance Project (GISP) demonstrated resistance to ciprofloxacin, compared to 0.4% in 2000 and 0.1% in 1998. There is considerable geographic variation in the prevalence of fluoroquinolone-resistance within the U.S. Notably, in Honolulu, the proportion of GISP isolates that were resistant to ciprofloxacin continued to increase quite markedly and was 20.2% in 2001 compared to 14.3% in 2000. Also, in 2001, increased numbers of GISP isolates resistant to ciprofloxacin were identified in all four California GISP sites (3.0% in Long Beach, 2.3% in Orange County, 2.1% in San Diego, and 3.1% in San Francisco). As a result of these data, the 2002 CDC STD Treatment Guidelines<sup>3</sup> recommend that fluoroquinolones not be used for treatment of gonorrhea acquired in Asia, the Pacific Islands, including Hawaii, or in other areas with high levels of resistance such as California. See **Appendix** for a further description of GISP.

Data on characteristics of patients in the GISP sample have been used to describe trends in the sexual orientation of male STD clinic patients with gonorrhea. In 2001, there was a marked increase in the proportion of GISP isolates from men who have sex with men (MSM), with 17.2% of isolates from MSM compared with 13.9% in 2000 and 13.1% in 1999 (Figure CC). In 1988, only 4.0% of isolates were from MSM. The proportional increase in MSM in GISP has corresponded to an absolute increase in gonorrhea cases among MSM at STD clinics in several large cities that participate in GISP.

## Syphilis

The rate of primary and secondary (P&S) syphilis reported in the United States decreased during the 1990s and in 2000 was the lowest since reporting began in 1941. The low rate of syphilis and the concentration of the majority of syphilis cases in a small number of geographic areas led to the development of the National Plan to Eliminate Syphilis from the United States, which was announced by the Surgeon General in October 1999.<sup>4</sup> The rate of P&S syphilis in the United States declined by 89.2% from 1990 through 2000. However, the rate of P&S syphilis increased slightly in 2001 (the first annual rate increase since 1990); this increase was observed only in men.

Despite continued national progress toward syphilis elimination among women and African-Americans, syphilis remains an important problem in the South and, increasingly, in some urban areas with large populations of MSM. Recently, outbreaks of syphilis among MSM have been reported, possibly reflecting increases in risky behavior in this population.

In 2001, P&S syphilis cases reported to CDC increased to 6,103 from 5,979 in 2000, an increase of 2.1%. The overall reported rate of P&S syphilis in the United States in 2001 (2.2 cases per 100,000 population) was slightly above the rate reported in 2000 (2.1 cases per 100,000), and was substantially higher than the Healthy People 2010 (HP2010) objective of 0.2 cases per 100,000 population (Figure 21, Table 1). The rate of P&S syphilis among women decreased from 1.7 cases per 100,000 population in 2000 to 1.4 cases per 100,000 population in 2001; among men, the rate increased from 2.6 to 3.0 cases per 100,000 population (Tables 28 and 29).

One factor that greatly facilitates syphilis elimination efforts is that this disease continues to be primarily reported only in specific areas of the country. In 2001, 2,516 (80.2%) of the 3,139 counties in the United States reported no cases of P&S syphilis (see **Appendix** for details on county coding). Half of all the P&S syphilis cases were reported from only 20 counties and one city (0.7% of total number of U.S. counties) (Table 26). However, the 2001 P&S syphilis rates were greater than the HP2010 objective in 606 counties (19.3% of the total number of U.S. counties). These 606 counties accounted for more than 99.6% of all reported P&S syphilis cases. Sixty-seven percent (403 out of 606) of these counties are located in the southern part of the United States (Figure KK). These data suggest that comprehensive syphilis prevention efforts focused in the South could markedly reduce the number of syphilis cases occurring in the United States.

Between 2000 and 2001, the national rate of congenital syphilis decreased by 20.7%, from 14.0 to 11.1 cases per 100,000 live births (Table 42). The continuing reduction in congenital syphilis rates, occurring since the early 1990s, reflects the substantial and continuing reduction in the rate of P&S syphilis among women over the same period. In 2001, approximately one half of the states and outlying areas had a reported rate of congenital syphilis that was greater than the HP2010 objective of 1.0 case per 100,000 live births (Table 41).

Although wide disparities exist in the reported rates of STDs among racial and ethnic groups, there has been a reduction in these differences for syphilis over the past five years. The P&S syphilis rate reported for 2001 among African-Americans was 16 times the rate reported among whites, reflecting a substantial decline from 1997, when the rate among African-Americans was 44 times greater than that among whites (Table 35B).

While syphilis elimination efforts have successfully focused on heterosexual minority populations at risk for syphilis, recent increases in syphilis among MSM highlight the importance of continually reassessing and refining surveillance, prevention, and control strategies.

---

<sup>1</sup> Institute of Medicine. *The Hidden Epidemic: Confronting Sexually Transmitted Diseases*, Committee on Prevention and Control of Sexually Transmitted Diseases, National Academy Press, Washington, DC, 1997.

<sup>2</sup> National Committee for Quality Assurance (NCQA). *HEDIS 2000: Technical Specifications*, Washington, DC, 1999, pp. 68-70, 285-286.

<sup>3</sup> Centers for Disease Control and Prevention. Sexually transmitted diseases treatment guidelines 2002. *MMWR* 2002;51 (No. RR-6)

<sup>4</sup> Division of STD Prevention. *The National Plan to Eliminate Syphilis from the United States*. National Center for HIV, STD, and TB Prevention, Centers for Disease Control and Prevention, 1999.

## National Profile

The **National Profile** section contains figures showing trends and the distribution of sexually transmitted diseases (STDs) by age, sex, race/ethnicity, and location for the United States. Where relevant, the figures illustrate progress towards specific objectives\* for the nation published in U.S. Department of Health and Human Services. *Healthy People 2010*. 2nd ed. With Understanding and Improving Health and Objectives for Improving Health. 2 vols. Washington, DC: U.S. Government Printing Office, November 2000.

\* See the **Appendix** for a listing of the Healthy People 2010 objectives for the diseases addressed in this report.



## Chlamydia

*Chlamydia trachomatis* infections are the most commonly reported notifiable disease in the United States. They are among the most prevalent of all STDs and, since 1994, have comprised the largest proportion of all STDs reported to CDC (Table 1). In women, chlamydial infections, which are usually asymptomatic, may result in pelvic inflammatory disease (PID), which is a major cause of infertility, ectopic pregnancy, and chronic pelvic pain. Data from a randomized controlled trial of chlamydia screening in a managed care setting suggest that such screening programs can lead to a reduction in the incidence of PID by as much as 60%.<sup>1</sup> As with other inflammatory STDs, chlamydial infection can facilitate the transmission of HIV infection. In addition, pregnant women infected with chlamydia can pass the infection to their infants during delivery, potentially resulting in neonatal ophthalmia and pneumonia.

The increase in reported chlamydial infections during the 1990s reflects the expansion of chlamydia screening activities, use of increasingly sensitive diagnostic tests, an increased emphasis on case reporting from providers and laboratories, and improvements in the information systems for reporting. However, many women who are at risk for this infection are still not being tested, reflecting, in part, lack of awareness among some health care providers and the limited resources available to support screening. Chlamydia screening and reporting are likely to expand further in response to the recently implemented Health Plan Employer Data and Information Set (HEDIS) measure for chlamydia screening of sexually active women 15 through 25 years of age who are provided medical care through managed care organizations.<sup>2</sup> To better monitor trends in disease burden in defined populations during the expansion of chlamydia screening activities, data on chlamydia positivity among persons screened in a variety of settings are used; in most instances, test positivity serves as a reasonable approximation of prevalence.<sup>3</sup> In parts of the United States where large scale chlamydia screening programs have been instituted, prevalence of the disease has declined substantially.

- In 2000, for the first time, all 50 states and the District of Columbia had regulations requiring the reporting of chlamydia cases to CDC (Figure 1, Table 4).
- In 2001, 783,242 chlamydial infections were reported to CDC from 50 states and the District of Columbia (Table 1). This case count corresponds to a rate of 278.3 cases per 100,000 population, an increase of 10.4% compared with the rate of 252.1 in 2000. The reported number of chlamydial infections was more than twice the number of reported cases of gonorrhea (361,705 gonorrhea cases were reported in 2001) (Table 1).
- From 1987 through 2001, the reported rates of chlamydial infection increased from 50.8 to 278.3 cases per 100,000 population (Figure 2, Table 1). The continuing increase in reported cases likely represents the further expansion of screening for this infection, the development and use of more sensitive screening tests, and more complete national reporting.
- For the years 1997-2001, the chlamydia rates in the Southern region of the United States (230.1, 268.4, 286.0, 285.5, 306.7 cases per 100,000 population,

respectively) were higher than the rates in any other region of the country (Figures 3 and 4, Table 4). The higher rates in this region likely reflect both an expansion of screening activities in the South and the high burden of disease in this region. Before 1996, reported chlamydia rates were highest in the West and Midwest, where substantial public resources had been committed for screening programs in family planning clinics.

- In 2001, the overall reported rate of chlamydial infection among women in the U.S. (435.2 cases per 100,000 females) was approximately four times higher than the reported rate among men (113.9 cases per 100,000 males), likely reflecting a greater number of women screened for this disease (Figure 5, Tables 5 and 6). The lower rates among men suggest that many of the sex partners of women with chlamydia are not diagnosed or reported. However, with the advent of the new, highly sensitive nucleic acid amplification tests that can be performed on urine, symptomatic and asymptomatic men are increasingly being diagnosed with chlamydial infection. From 1997 to 2001, the reported chlamydial infection rate in males increased by 61.6% (from 70.5 to 113.9 cases per 100,000 males) compared with a 27.3% increase in women over this period (from 341.8 to 435.2 cases per 100,000 females) (Tables 5 and 6).
- For women, the highest age-specific reported rates of chlamydia in 2001 occurred among 15- to 19- year-olds (2,536.1 per 100,000 females) and 20- to 24-year-olds (2,447.0 per 100,000 females). Age-specific reported rates among men, while substantially lower than the rates in women, were also highest in these same age groups (Figure 6, Table 11).
- In 2001, the reported rate of chlamydia among African-American females in the U.S. was nine times higher than the rate among white females (1,646.1 and 192.3 per 100,000, respectively) (Table 12B). The chlamydia rate among African-American males was 13 times higher than that among white males (531.8 and 42.2 per 100,000 respectively).
- Chlamydia screening and prevalence monitoring activities were initiated in Health and Human Services (HHS) Region X in 1988 as a CDC-supported demonstration project. In 1993, chlamydia screening services for women were expanded to three additional HHS regions (III, VII, and VIII) and, in 1995, to the remaining HHS regions (I, II, IV, V, VI, and IX). In some regions, federally-funded chlamydia screening supplements local- and state-funded screening programs.
- In 2001, the median state-specific chlamydia test positivity among 15- to 24-year-old women who were screened during visits to selected family planning clinics in all states and outlying areas was 5.6% (range 2.7% to 13.9%) (Figure 7). In nearly all states chlamydia positivity was greater than the HP2010 objective of 3.0%.<sup>4</sup>
- The effectiveness of large-scale screening programs in reducing chlamydia prevalence in women has been well documented in areas where this intervention has been in place for several years. For example, from 1988 to 2001, the screening programs in HHS Region X (Alaska, Idaho, Oregon, Washington) family planning clinics demonstrated a 59.2% decline in chlamydia positivity from 13.0% to 5.3% among 15- to 44-year-old women (Figure 8); chlamydia positivity was adjusted for changes in laboratory test methods and associated test sensitivity (see **Appendix**).<sup>5</sup>

- After adjusting trends in chlamydia positivity to account for changes in laboratory test methods and associated increases in test sensitivity (see **Appendix**), chlamydia test positivity decreased in five of 10 HHS regions from 2000 to 2001, increased in four regions, and remained the same in one region (Figure 8). Although chlamydia positivity has declined in the past year in some regions due to the effectiveness of screening and treatment of women, continued expansion of screening programs to populations with higher prevalence of disease may have contributed to increases in positivity in other regions.
- Additional information on chlamydia screening programs for women of reproductive age and chlamydia among adolescents and minority populations can be found in the **Special Focus Profiles**.

---

<sup>1</sup> Scholes D, Stergachis A, Heidrich FE, Andrilla H, Holmes KK, Stamm WE. Prevention of pelvic inflammatory disease by screening for cervical chlamydial infection. *NEngl J Med* 1996;34(21): 1362-66.

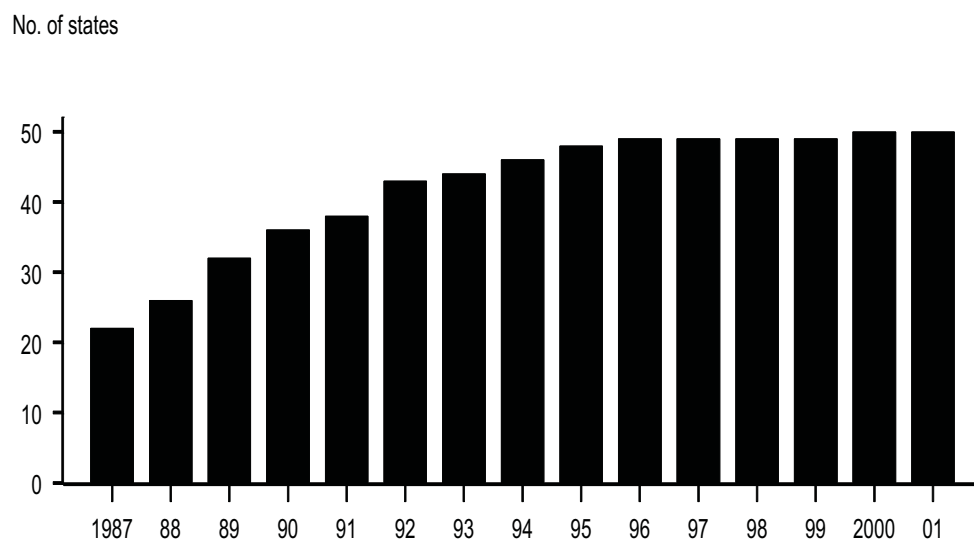
<sup>2</sup> National Committee for Quality Assurance (NCQA). *HEDIS 2000: Technical Specifications*, Washington, DC, 1999, pp. 68-70, 285-286.

<sup>3</sup> Dicker LW, Mosure D, Levine W. Chlamydia positivity versus prevalence: what's the difference? *Sex Transm Dis* 1998;25:251-3.

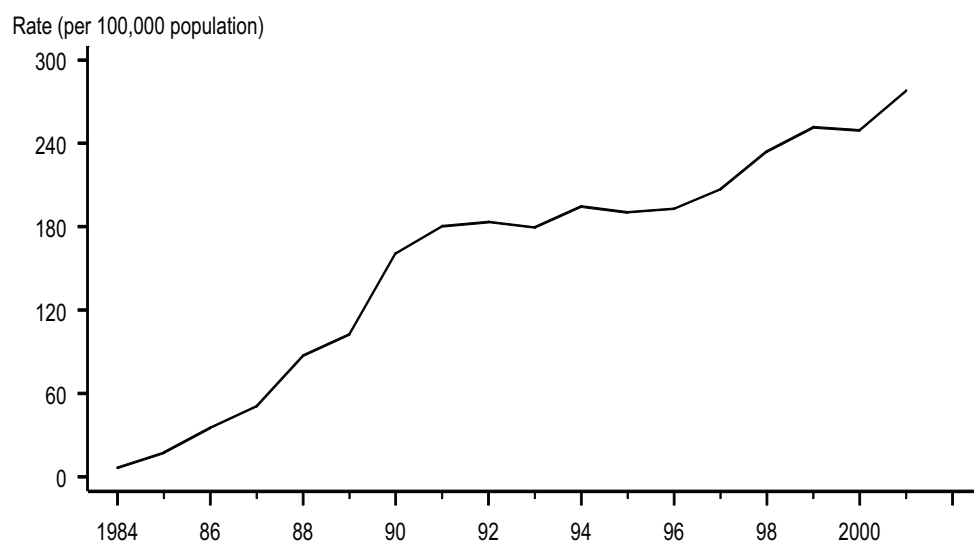
<sup>4</sup> U.S. Department of Health and Human Services. *Healthy People 2010*. 2nd ed. With Understanding and Improving Health and Objectives for Improving Health. 2 vols. Washington, DC: U.S. Government Printing Office, November 2000.

<sup>5</sup> Dicker LW, Mosure DJ, Levine WC, et al. Impact of switching laboratory tests on reported trends in *Chlamydia trachomatis* infections. *Am J Epidemiol* 2000;51:430-5.

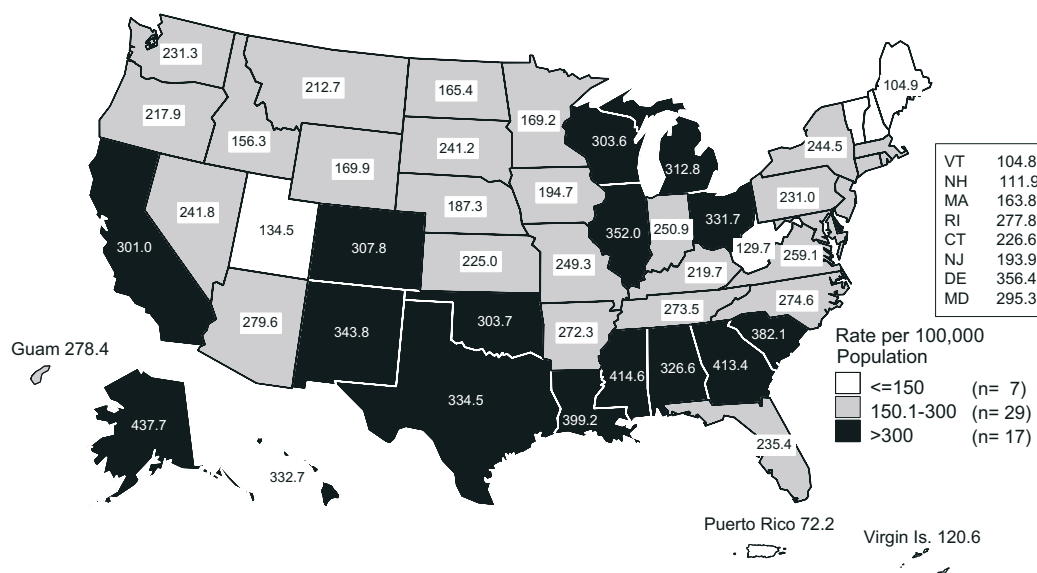
**Figure 1. Chlamydia — Number of states that require reporting of *Chlamydia trachomatis* infections: United States, 1987–2001**



**Figure 2. Chlamydia — Reported rates: United States, 1984–2001**

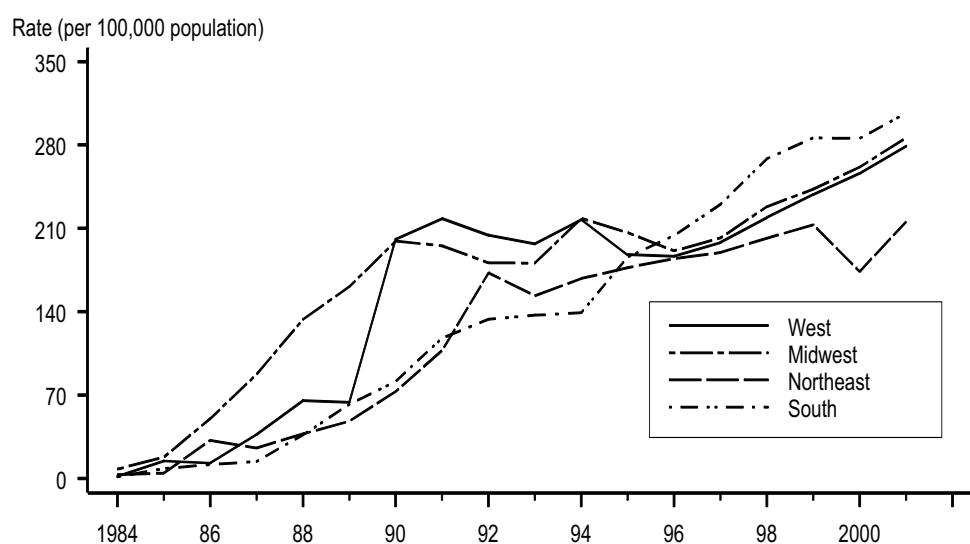


**Figure 3. Chlamydia — Rates by state: United States and outlying areas, 2001**

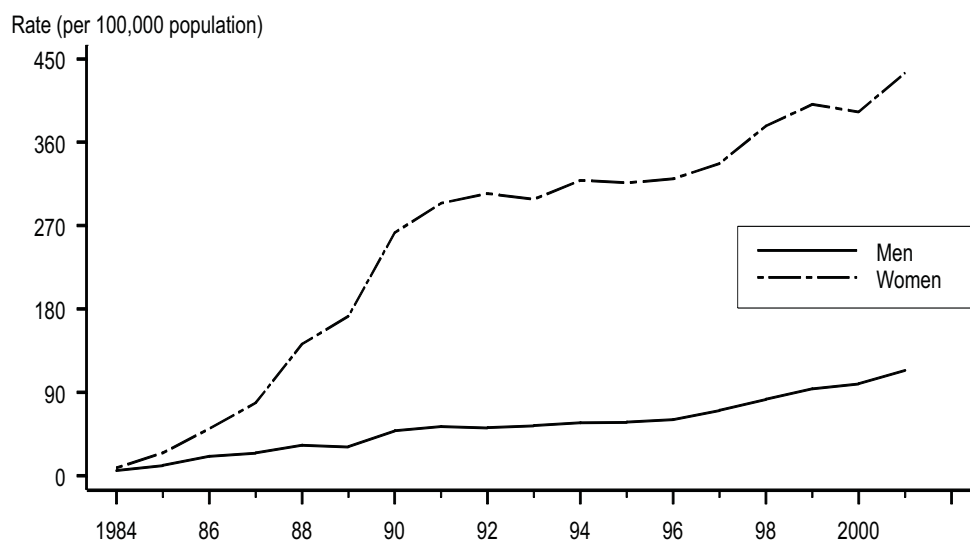


Note: The total rate of chlamydia for the United States and outlying areas (including Guam, Puerto Rico and Virgin Islands) was 275.5 per 100,000 population. For further information on chlamydia reporting, see the Appendix.

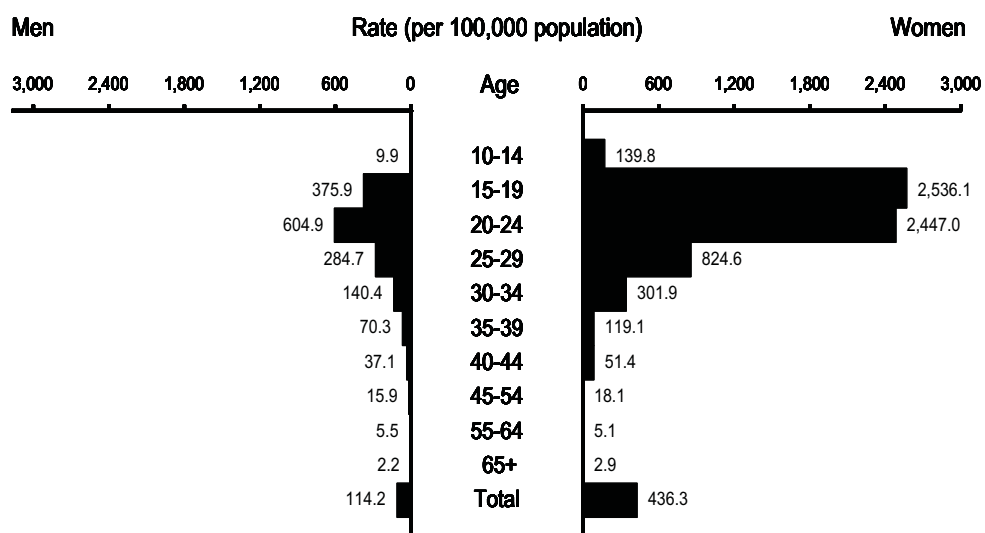
**Figure 4. Chlamydia — Rates by region: United States, 1984–2001**



**Figure 5. Chlamydia — Rates by sex: United States, 1984–2001**

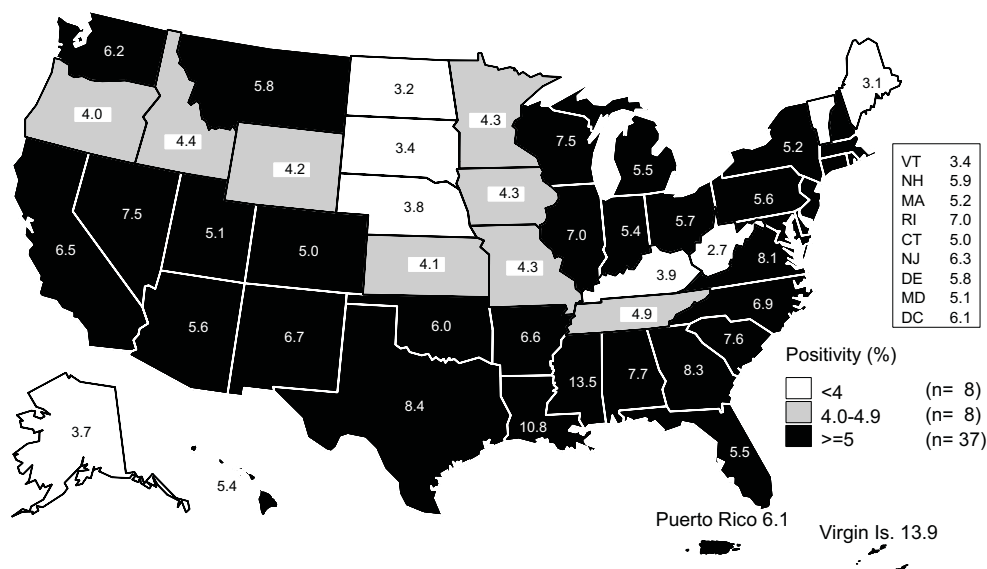


**Figure 6. Chlamydia — Age- and sex-specific rates: United States, 2001**



Note: See Table 11 and Appendix for more information.

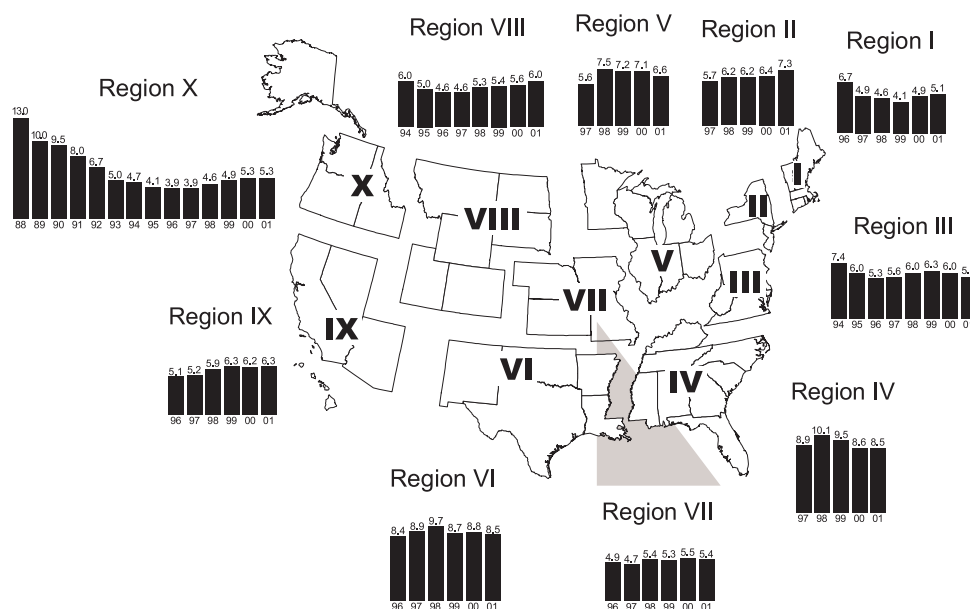
**Figure 7. Chlamydia — Positivity among 15-24 year old women tested in family planning clinics by state: United States and outlying areas, 2001**



Note: States reported chlamydia positivity data on at least 500 women aged 15-24 years screened during 2001.

SOURCE: Regional Infertility Prevention Program; Office of Population Affairs; Local and State STD Control Programs; Centers for Disease Control and Prevention

**Figure 8. Chlamydia — Trends in positivity among 15-44 year old women tested in family planning clinics by HHS regions, 1988-2001**



Note: Trends adjusted for changes in laboratory test method and associated increases in test sensitivity (see Appendix). No data on laboratory test method available for Region VII in 1995 and Regions IV and V in 1996. See Appendix for definition of Health and Human Services (HHS) regions.

SOURCE: Regional Infertility Prevention Program; Office of Population Affairs; Local and State STD Control Programs; Centers for Disease Control and Prevention



## Gonorrhea

Infections due to *Neisseria gonorrhoeae*, like those resulting from *Chlamydia trachomatis*, are a major cause of pelvic inflammatory disease (PID) in the United States. Occurrence of PID can lead to serious outcomes such as tubal infertility, ectopic pregnancy, and chronic pelvic pain. In addition, epidemiologic and biologic studies provide strong evidence that gonococcal infections facilitate the transmission of HIV infection.<sup>1</sup>

Following a 73.8% decline in the reported rate of gonorrhea from 1975 to 1997, in 1998 the gonorrhea rate increased by 7.8% and has remained essentially unchanged through 2001 (Figure 9 and Table 1 ). Although increased screening (usually associated with simultaneous testing for chlamydial infection), use of more sensitive diagnostic tests, and improved reporting may account for a portion of the recent increase, true increases in disease in some populations and geographic areas also appear to have occurred.<sup>2</sup>

As with reporting of chlamydial infection, reporting of gonorrhea cases to CDC is incomplete. In addition, reporting practices for gonococcal infections may have been biased towards reporting of infections in persons of minority race or ethnicity, who are more likely to attend public STD clinics.<sup>2,3</sup> As a result, for most areas, the number of gonorrhea cases reported to CDC are affected by many factors, only one of which is the occurrence of the infection within the population. For this reason, new data on gonorrhea prevalence in persons screened in a variety of different settings are useful in assessing disease burden in selected populations.

- In 2001, 361,705 cases of gonorrhea were reported in the United States (Table 1).
- The rate of reported gonorrhea in the United States was 128.5 cases per 100,000 population in 2001 which was similar to the rates for the previous three years (129.0 in 2000, 132.3 in 1999, and 131.9 in 1998) (Table 14). In the period from 1975 to 1997, the national gonorrhea rate had been generally declining following the implementation of the national gonorrhea control program in the mid-1970s (Table 1).
- In 2001, eight states and one outlying area reported gonorrhea rates below the Healthy People 2010 (HP2010) national objective of 19 cases per 100,000 population<sup>4</sup> (Figure 10 and Table 13).
- Between 2000 and 2001, the gonorrhea rates in two of the four Census regions of the United States (Northeast and West) increased while the rates decreased slightly in the other two regions (Midwest and South). The Northeast experienced a 9.6% increase in rates (from 89.3 per 100,000 population in 2000 to 97.9 in 2001) and the West experienced a 7.0% increase (from 57.5 per 100,000 in 2000 to 61.5 in 2001). Meanwhile, the gonorrhea rate in the Midwest decreased by 1.7% (from 145.9 per 100,000 in 2000 to 143.4 in 2001) and the South had a 3.9% decrease in rates (from 184.6 cases per 100,000 population in 2000 to 177.5 in 2001). As in previous reporting years, the South had the highest reported gonorrhea rate in 2001 among the four regions of the country (Figure 11, Table 14).

- The reported gonorrhea rate among women in 2001 (128.2 cases per 100,000 females) was similar to the rate in previous years (126.7 in 2000 and 128.6 in 1999) (Figure 12 and Table 15). The gonorrhea rate among men has declined in the last two years from 135.5 cases per 100,000 males in 1999 to 130.9 in 2000 and to 128.4 in 2001 (Figure 12 and Table 16).
- State-specific reported gonorrhea rates for men and women were higher than the HP2010 objective of 19 cases per 100,000 population in 42 states and two outlying areas (Tables 15 and 16).
- The overall gonorrhea rate reported from selected large cities with populations over 200,000 persons was 227.4 cases per 100,000 population in 2001. This rate is similar to what was reported for these cities in 2000 (231.2 cases per 100,000 population) (Table 18). All of these 63 cities and one outlying area, had reported rates higher than the HP2010 objective of 19 cases per 100,000 population (Table 17).
- Changes in the reported 2001 gonorrhea rates, relative to those reported in 2000, differed depending on racial/ethnic group. Gonorrhea rates increased in 2001 for three of the five racial/ethnic groups. The rates among Hispanics (69.4 per 100,000 in 2000 and 74.2 in 2001) and among non-Hispanic whites (27.7 in 2000 and 29.4 in 2001) increased by 6.9% and 6.1% respectively between 2000 and 2001. The gonorrhea rate among Asian/Pacific Islanders declined in 2001 compared to 2000 (from 27.8 down to 26.7) but remained elevated compared to previous years (20.9 in 1999). The rate among African-Americans declined by 0.7% from 788.2 in 2000 to 782.3 in 2001 which was less than the declines in previous years (from 859.4 in 1998 to 848.3 in 1999 to 788.2 in 2000) (Figure 13 and Table 22B). In 2001, the reported gonorrhea rate among African-Americans was about 27 times greater than the rate for non-Hispanic whites. The 2001 gonorrhea rates for all racial/ethnic groups were above the HP2010 objective of 19 per 100,000 population.
- Among women in 2001, 15- to 19-year-olds had the highest reported rate of gonorrhea (703.2 per 100,000), while among men, 20- to 24-year-olds had the highest rate (563.6 per 100,000) (Figure 14 and Table 21).
- In 2001, the median state-specific gonorrhea test positivity among 15- to 24-year-old women screened in selected family planning clinics in 34 states, Puerto Rico, District of Columbia, and the Virgin Islands was 1.0% (range 0.1% to 3.2%) (Figure 15). In other settings, gonorrhea test positivity has been much higher. See **Special Focus Profiles**.
- Antimicrobial resistance remains an important consideration in the treatment of gonorrhea.<sup>5,6</sup> Overall, 20.9% of isolates collected in 2001 by the Gonococcal Isolate Surveillance Project (GISP) were resistant to penicillin, tetracycline, or both (Figures 16 and 17).
- Resistance to ciprofloxacin was first identified in GISP in 1991. From 1991 to 1998, fewer than 9 ciprofloxacin-resistant isolates were identified each year and such isolates were identified in only a few GISP clinics. In 2000, similar to 1999, 19 (0.4%) ciprofloxacin-resistant GISP isolates were identified in 7 of the 25 GISP clinics. In 2001, 38 (0.7%) ciprofloxacin-resistant GISP isolates were identified in 6 clinics (Figure 18). Notably, in Honolulu, the proportion of GISP isolates that were resistant to ciprofloxacin continued to increase quite markedly and was

20.3% in 2001, compared to 14.3% in 2000. This ongoing trend reinforces the recommendation made by CDC in 2000 that fluoroquinolones not be used to treat gonorrhea acquired in Hawaii.<sup>5</sup> In 2001, elevated proportions of GISP isolates resistant to ciprofloxacin were identified in all four California GISP sites (3.0% in Long Beach, 2.3% in Orange County, 2.1% in San Diego, and 3.4% in San Francisco); as a result, in 2002, the California STD Program recommended that fluoroquinolones no longer be used for gonorrhea treatment in California.

- In 2001, four (0.1%) GISP isolates had decreased susceptibility to cefixime; no GISP isolates had decreased susceptibility to ceftriaxone. The proportion of GISP isolates demonstrating decreased susceptibility to ceftriaxone or cefixime has remained very low over time. To date, cephalosporin resistance has not been identified in GISP. However, it was notable that three of the four isolates with decreased susceptibility to cefixime were also resistant to penicillin, tetracycline, and ciprofloxacin; such multi-drug resistance in combination with decreased susceptibility to cefixime has rarely been identified in the United States.<sup>7</sup>
- The proportion of GISP isolates demonstrating elevated minimum inhibitory concentrations (MICs) to azithromycin has been increasing since GISP began monitoring azithromycin susceptibility in 1992. In 1992, 0.9% of GISP isolates had azithromycin MIC  $\geq$  0.5 mg/ml compared with 1.5% in 2001. In 1992, there were no isolates with azithromycin MIC  $\geq$  1.0 mg/ml but in 2001, there were 15 such isolates.
- From GISP data, the percentage of men with gonorrhea who were reported to have had a gonorrhea infection in the previous year has remained essentially unchanged between 1992 (21.5%) and 2001 (22.0%) (Figure 19).
- Additional information about gonorrhea in racial and ethnic minority populations, adolescents, men who have sex with men, and other at risk populations can be found in the Special Focus Profiles.

---

<sup>1</sup> Cohen MS, Hoffman IF, Royce RA, et al. Reduction of concentration of HIV-1 in semen after treatment of urethritis: implications for prevention of sexual transmission of HIV-1. *Lancet* 1997;349:1868-73.

<sup>2</sup> Centers for Disease Control and Prevention. Gonorrhea – United States, 1998. *MMWR* 2000;49:538-42.

<sup>3</sup> Fox KK, Whittington W, Levine WC, Moran JS, Zaidi AA, Nakashima AN. Gonorrhea in the United States, 1981-1996: demographic and geographic trends. *Sex Transm Dis* 1998;25(7):386-93.

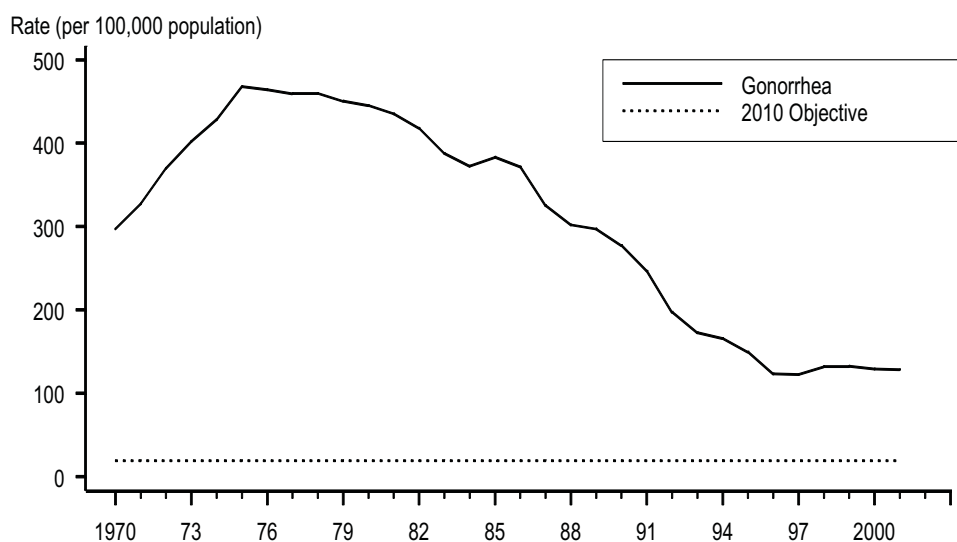
<sup>4</sup> U.S. Department of Health and Human Services. *Healthy People 2010*. 2nd ed. With Understanding and Improving Health and Objectives for Improving Health. 2 vols. Washington, DC: U.S. Government Printing Office, November 2000.

<sup>5</sup> Centers for Disease Control and Prevention. Fluoroquinolone-resistance in *Neisseria gonorrhoeae*, Hawaii, 1999, and decreased susceptibility to azithromycin in *N. gonorrhoeae*, Missouri, 1999. *MMWR* 2000;49:833-837.

<sup>6</sup> Centers for Disease Control and Prevention. Sexually Transmitted Disease Surveillance 2001 Supplement: Gonococcal Isolate Surveillance Project (GISP) Annual Report 2001. Atlanta, GA: U.S. Department of Health and Human Services (in press).

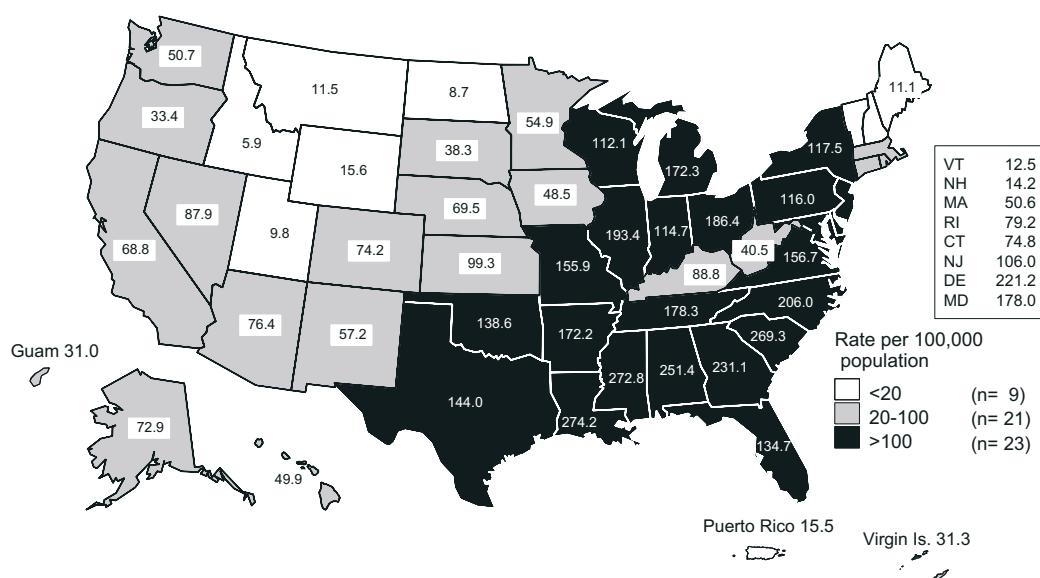
<sup>7</sup> Wang SA, Lee MV, Iverson CJ, O'Connor N, Ohye RG, Hale JA, Knapp JS, Effler PV, Weinstock HS. Multi-drug resistant *Neisseria gonorrhoeae* with decreased susceptibility to cefixime, Hawaii, 2001. [Abstract] International Conference on Emerging Infectious Diseases, Atlanta, Georgia, March 25, 2002.

**Figure 9. Gonorrhea — Reported rates: United States, 1970–2001 and the Healthy People year 2010 objective**



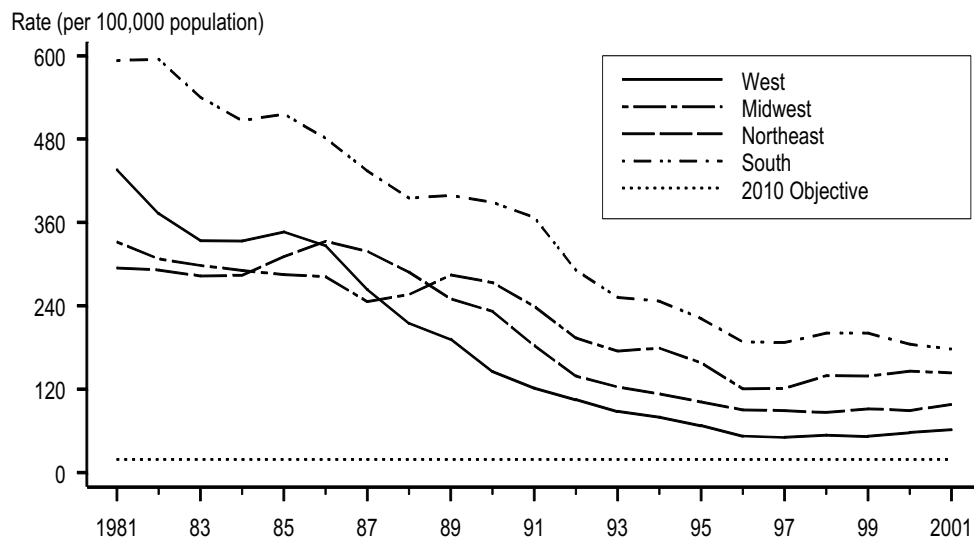
Note: The Healthy People 2010 (HP2010) objective for gonorrhea is 19.0 cases per 100,000 population.

**Figure 10. Gonorrhea — Rates by state: United States and outlying areas, 2001**

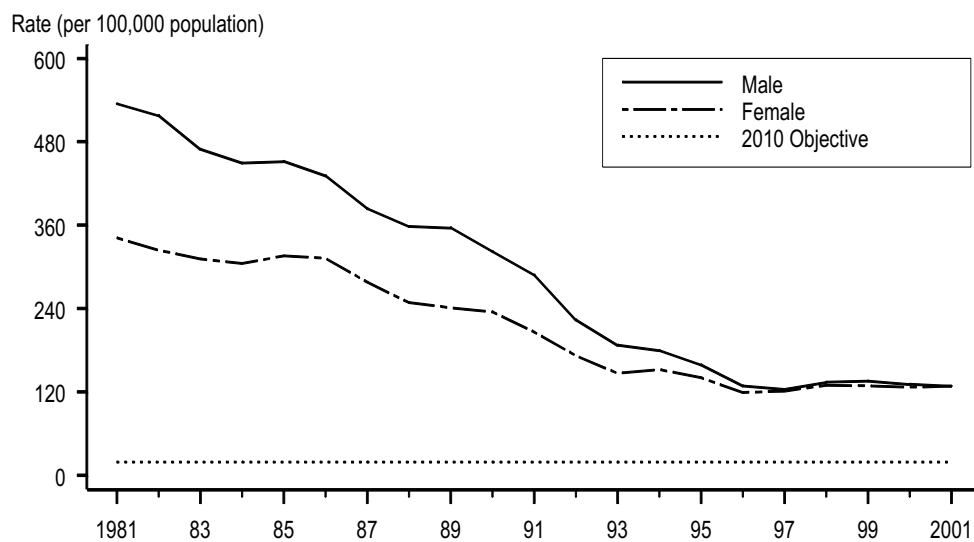


Note: The total rate of gonorrhea for the United States and outlying areas (including Guam, Puerto Rico and Virgin Islands) was 126.9 per 100,000 population. The Healthy People year 2010 objective is 19.0 per 100,000 population.

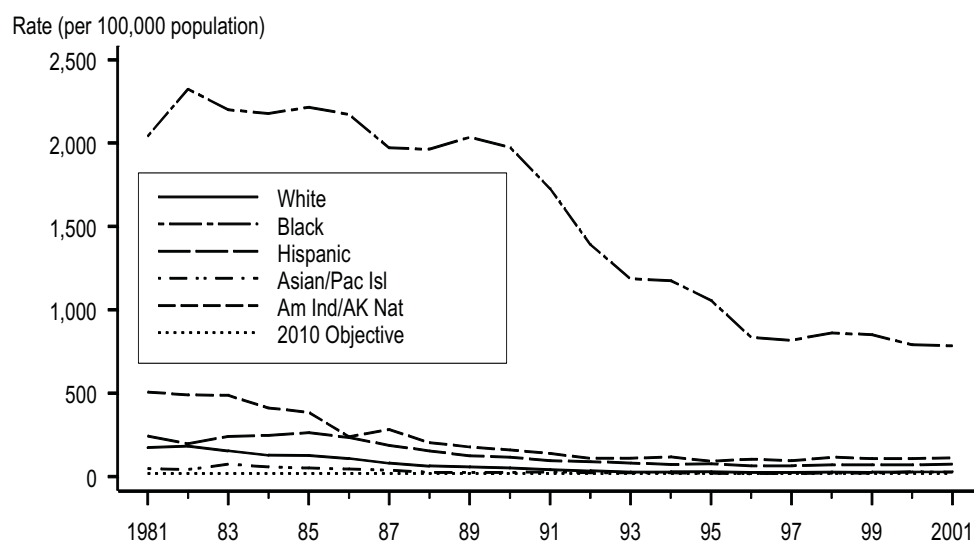
**Figure 11. Gonorrhea — Rates by region: United States, 1981–2001 and the Healthy People year 2010 objective**



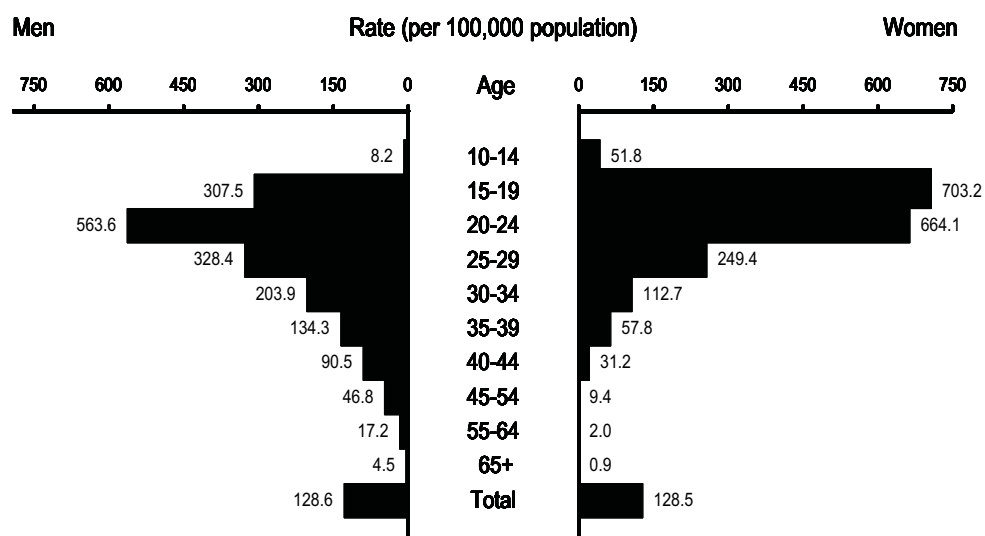
**Figure 12. Gonorrhea — Rates by sex: United States, 1981–2001 and the Healthy People year 2010 objective**



**Figure 13. Gonorrhea — Rates by race and ethnicity: United States, 1981–2001 and the Healthy People year 2010 objective**

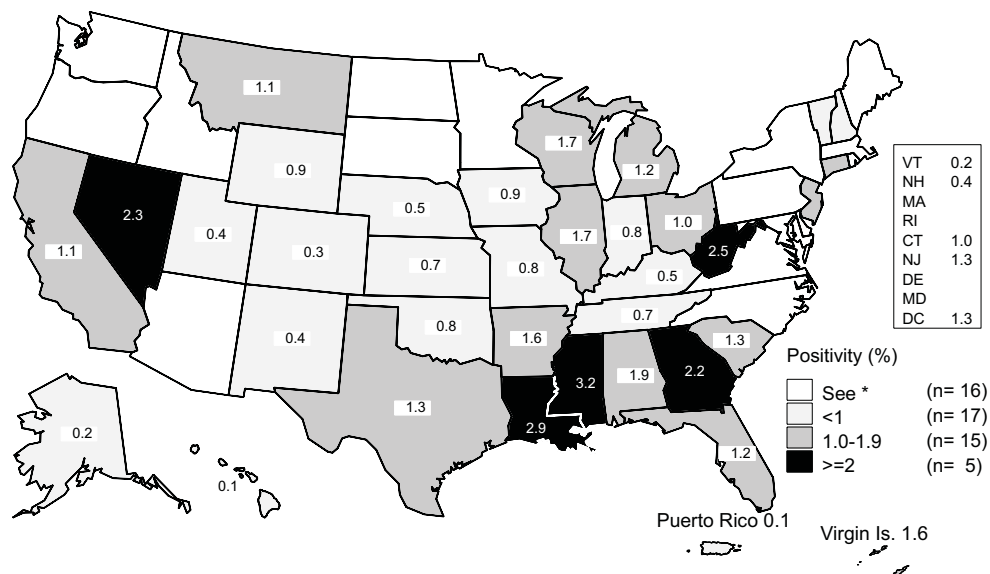


**Figure 14. Gonorrhea — Age- and sex-specific rates: United States, 2001**



Note: See Table 21 and Appendix for more information.

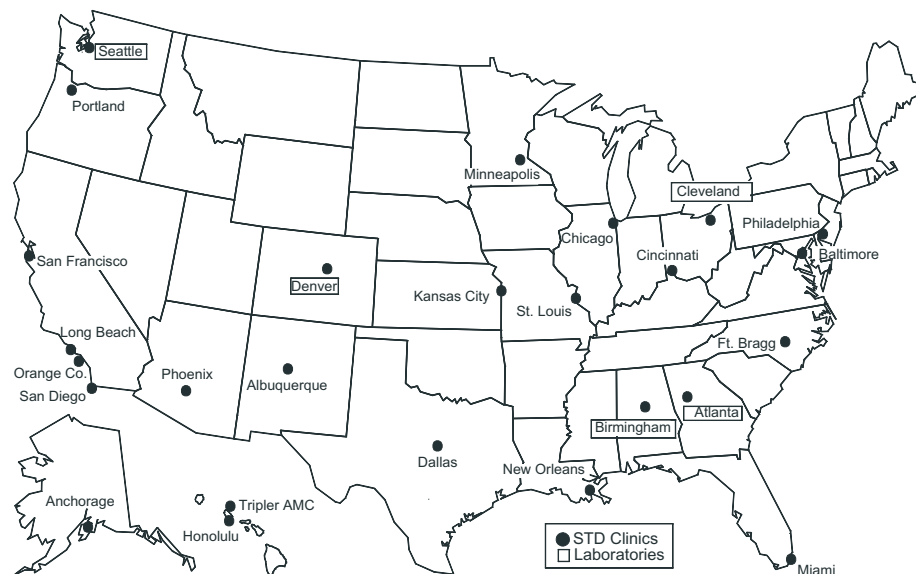
**Figure 15. Gonorrhea — Positivity among 15-24 year old women tested in family planning clinics by state: United States and outlying areas, 2001**



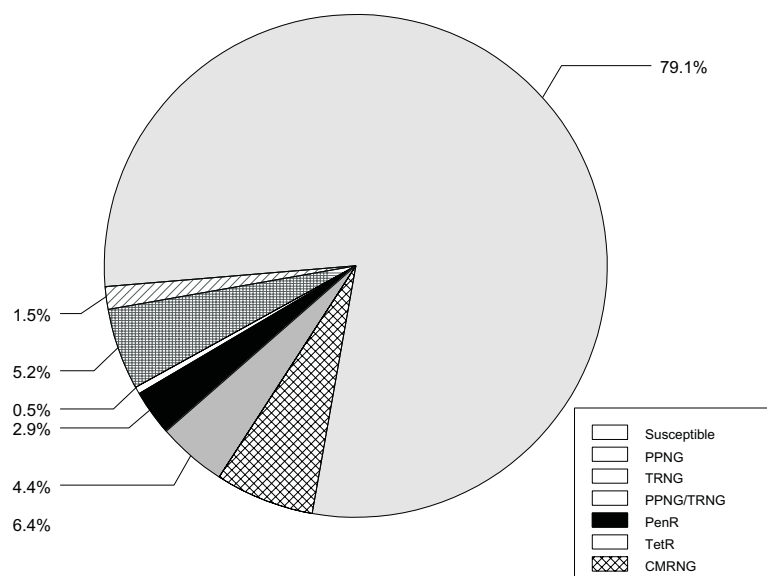
\*States reported gonorrhea positivity data on less than 500 women aged 15-24 years during 2001.

SOURCE: Regional Infertility Prevention Program; Office of Population Affairs; Local and State STD Control Programs; Centers for Disease Control and Prevention

**Figure 16. Gonococcal Isolate Surveillance Project (GISP) — Location of participating clinics and regional laboratories: United States, 2001**

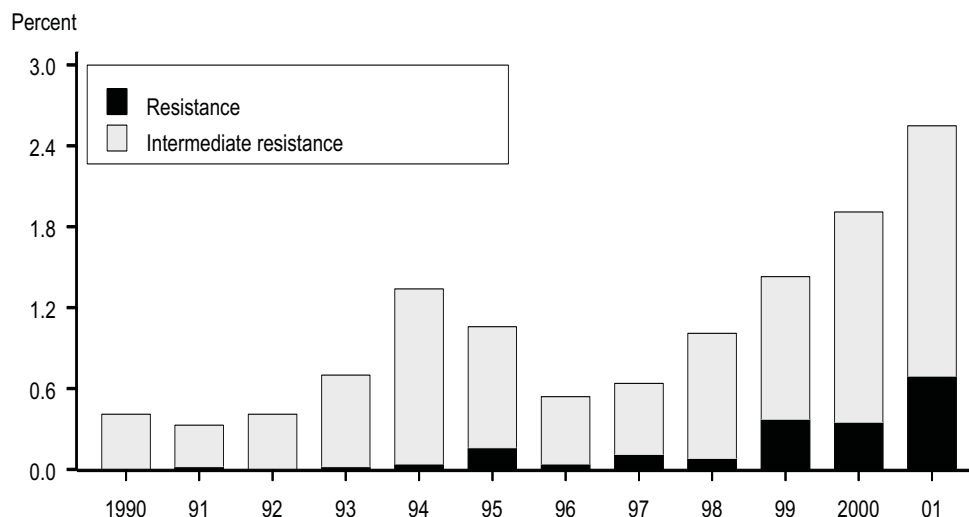


**Figure 17. Gonococcal Isolate Surveillance Project (GISP) — Penicillin and tetracycline resistance among GISP isolates, 2001**



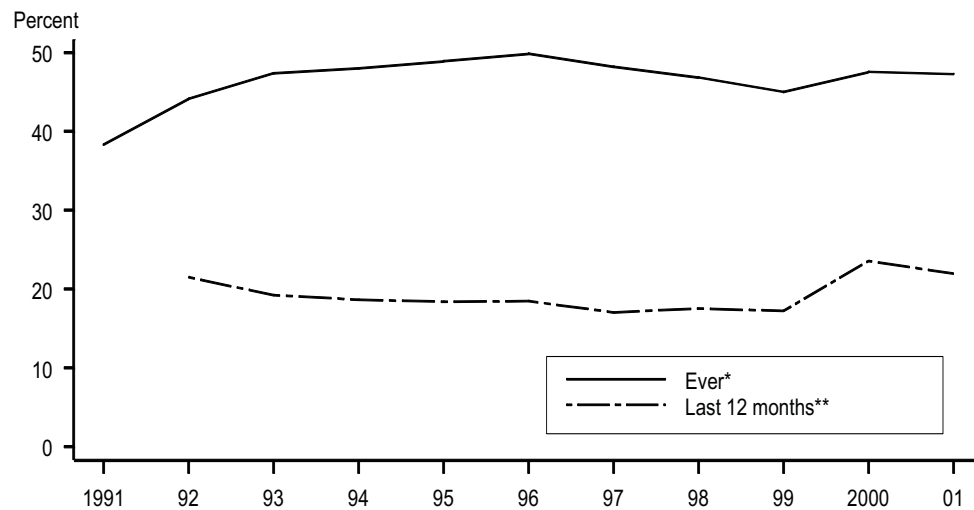
Note: PPNG=penicillinase-producing *N. gonorrhoeae*; TRNG=plasmid-mediated tetracycline resistant *N. gonorrhoeae*; PPNG-TRNG=plasmid-mediated penicillin and tetracycline resistant *N. gonorrhoeae*; PenR=chromosomally mediated penicillin resistant *N. gonorrhoeae*; TetR=chromosomally mediated tetracycline resistant *N. gonorrhoeae*; CMRNG=chromosomally mediated penicillin and tetracycline resistant *N. gonorrhoeae*.

**Figure 18. Gonococcal Isolate Surveillance Project (GISP) — Percent of *Neisseria gonorrhoeae* isolates with resistance or intermediate resistance to ciprofloxacin, 1990–2001**



Note: Resistant isolates have ciprofloxacin MICs  $\geq 1$   $\mu\text{g/mL}$ . Isolates with intermediate resistance have ciprofloxacin MICs of 0.125 - 0.5  $\mu\text{g/mL}$ . Susceptibility to ciprofloxacin was first measured in GISP in 1990.

**Figure 19. Gonococcal Isolate Surveillance Project (GISP) — Percent of men with gonorrhea who had a previous gonorrhea infection, 1991–2001**



\*Data first collected in 1991.

\*\*Data first collected in 1992.



## Syphilis

Syphilis, a genital ulcerative disease, facilitates the transmission of HIV and may be important in contributing to HIV transmission in those parts of the country, such as the South, where rates of both infections are high. Untreated early syphilis in pregnant women results in perinatal death in up to 40% of cases and, if acquired during the four years preceding pregnancy, may lead to infection of the fetus in over 70% of cases.<sup>1</sup>

The rate of primary and secondary (P&S) syphilis reported in the United States decreased during the 1990s and in 2000 was the lowest since reporting began in 1941 (Figure 20). The low rate of syphilis and the concentration of the majority of syphilis cases in a small number of geographic areas led to the development of the National Plan to Eliminate Syphilis from the United States, which was announced by Surgeon General David Satcher in October 1999.<sup>2</sup> Collaboration with diverse organizations, public health professionals, the private medical community, and other partners working in STD and HIV is essential for the success of this effort.<sup>3</sup>

The rate of P&S syphilis in the United States declined by 89.7% from 1990 through 2000. However, the rate of P&S syphilis increased slightly in 2001 (the first annual rate increase since 1990); this increase was observed only in men. Despite national progress toward syphilis elimination, particularly among African-Americans, syphilis remains an important problem in the South and in some urban areas in other regions of the country. Recently, outbreaks of syphilis among men who have sex with men (MSM) have been reported, possibly reflecting an increase in risky behavior in this population associated, in part, with the availability of highly active antiretroviral therapy for HIV infection.<sup>4,5</sup>

- In 2001, P&S syphilis cases reported to CDC increased to 6,103 from 5,979 in 2000, an increase of 2.1%. The reported rate of P&S syphilis in the United States in 2001 (2.2 cases per 100,000 population) was slightly higher than the rate reported in 2000 (2.1 cases per 100,000 population), and it is greater than the Healthy People 2010 (HP2010) objective of 0.2 case per 100,000 population (Figure 21, Table 1).<sup>6</sup>
- In 2001, P&S syphilis rates in nine states and one outlying area were less than or equal to the HP2010 national objective of 0.2 case per 100,000 population (Figure 22, Table 25). Ten states and one outlying area reported five or fewer cases of P&S syphilis in 2001 (Table 25).
- In 2001, 2,516 (80.2%) of 3,139 counties in the United States reported no cases of P&S syphilis compared with 2,520 (80.3%) counties reporting no cases in 2000. Of 623 counties reporting at least one case of P&S syphilis in 2001, 17 (2.7%) reported rates at or below the HP2010 objective of 0.2 case per 100,000 population. Rates of P&S syphilis were above the HP2010 objective for 606 counties in 2001 (Figure 23). These 606 counties (19.3% of the total number of counties in the U.S.) accounted for 99.6% of the total P&S syphilis cases reported in 2001.

- In 2001, half of the total number of P&S syphilis cases were reported from 20 counties and the city of Baltimore, MD (Table 26).
- The reported rate of P&S syphilis increased 15.4% among men (from 2.6 cases to 3.0 cases per 100,000 men) between 2000 and 2001 (Figure 25, Table 29). During this time, the rate declined 17.7% among women (from 1.7 to 1.4 cases per 100,000 women) (Figure 25, Table 28).
- The male-to-female rate ratio for P&S syphilis has risen steadily since 1996 when it was 1.1 (Figure 27). The male-to-female rate ratio in 2000 was 1.5:1; in 2001, the rate ratio was 2.1:1, suggesting an increase in syphilis among men who have sex with men.
- An increase in male-to-female rate ratio for P&S syphilis occurred in all racial/ethnic groups during 2000 to 2001. The male-to-female rate ratio for P&S syphilis increased from 1.8 to 6.0 in whites, from 1.4 to 1.7 in African-Americans, from 2.4 to 3.7 in Hispanics, from 5.0 to 10.0 in Asian/Pacific Islanders, and from 1.0 to 1.2 in American Indian/Alaska Natives (Table 35B).
- An increase in the male-to-female rate ratio for P&S syphilis occurred in the District of Columbia and in 16 (53.3%) of the 28 states and one outlying area that reported greater than or equal to 25 cases in 2001.
- In 2001, the South continued to have a higher rate of P&S syphilis (3.4 cases per 100,000 population) than any other region of the country. During 2000-2001, rates decreased 8.1% in the South (from 3.7 to 3.4 cases per 100,000 population) and 10.0% in the Midwest (from 2.0 to 1.8); they increased 40.0% in the West (from 1.0 to 1.4) and 57.1% in the Northeast (from 0.7 to 1.1). The 2001 reported rates in all regions were greater than the HP2010 objective of 0.2 case per 100,000 population (Figure 24, Table 27).
- The overall rate of P&S syphilis reported in 2001 for 63 selected large cities with populations of 200,000 persons or more in the U.S. (4.8 cases per 100,000 population) was 9.1% higher than the rate in 2000 (4.4). Rates exceeded the HP2010 objective of 0.2 case per 100,000 population in 59 (93.7%) of these 63 cities (Tables 30 and 31).
- Between 2000 and 2001, the rates of P&S syphilis declined among African-Americans (from 12.2 cases per 100,000 population in 2000 to 11.0 in 2001) but increased among whites (from 0.5 to 0.7), Hispanics (from 1.6 to 2.1), Asian/Pacific Islanders (from 0.3 to 0.5), and American Indian/Alaska Natives (from 2.4 to 4.2) (Figure 26, Table 35B).
- In 2001, the rate of P&S syphilis reported in African-Americans (11.0 cases per 100,000 population) was 16 times greater than the rate reported in whites (0.7 case per 100,000 population). This differential was substantially less than that in 1997, when the rate of P&S syphilis among African-Americans was 44 times greater than the rate reported among whites (Table 35B). Declining differential rates between African-Americans and whites between 1997 and 2001 are due to consistent decreases in rates in African-Americans during this period in conjunction with an increase in rates in whites in 2001.
- The incidence of P&S syphilis was highest among women aged 20-24 years (3.8 cases per 100,000 population) and among men aged 35-39 (7.2 cases per 100,000 population) (Figure 28, Table 34).

- Between 2000 and 2001, the overall rate of congenital syphilis decreased by 20.7% in the U.S., from 14.0 to 11.1 cases per 100,000 live births (Figure 29, Table 42). In addition, among the 18 states and outlying areas with five or more reported cases of congenital syphilis in 2000, 10 had rates that decreased since 2000. Five of these states had rate decreases of 30% or more between 2000 and 2001 (Table 42).
- The continuing decrease in the rate of congenital syphilis (Figure 30) likely reflects the substantial reduction in the rate of P&S syphilis among women that has occurred in the last decade (Figure 29).<sup>7</sup> During the period from 1991 through 2001, the average yearly percentage decrease in the congenital syphilis rate was 19.8% (Table 40). The average yearly percentage decrease in the rate of P&S syphilis reported among women for the years 1991 through 2001 was 20.8%.
- In 2001, 27 states and three outlying areas had reported rates of congenital syphilis that exceeded the HP2010 objective of 1.0 case per 100,000 live births (Tables 41 and 42).
- Thirty-four (54.0%) of the 63 selected cities with populations of 200,000 persons or more had congenital syphilis rates for 2001 greater than the HP2010 objective of 1.0 case per 100,000 live births (Table 43). All of these cities had reported rates that were more than six times the HP2010 objective.
- Additional information on syphilis and congenital syphilis can be found in the **Special Focus Profiles**.

---

<sup>1</sup> Ingraham NR. The value of penicillin alone in the prevention and treatment of congenital syphilis. *Acta Derm Venereol* 31 (suppl 24): 60, 1951.

<sup>2</sup> Division of STD Prevention. *The National Plan to Eliminate Syphilis from the United States*. National Center for HIV, STD, and TB Prevention, Centers for Disease Control and Prevention, 1999.

<sup>3</sup> Centers for Disease Control and Prevention. Primary and secondary syphilis – United States, 1999. *MMWR* 2000;50:113-117.

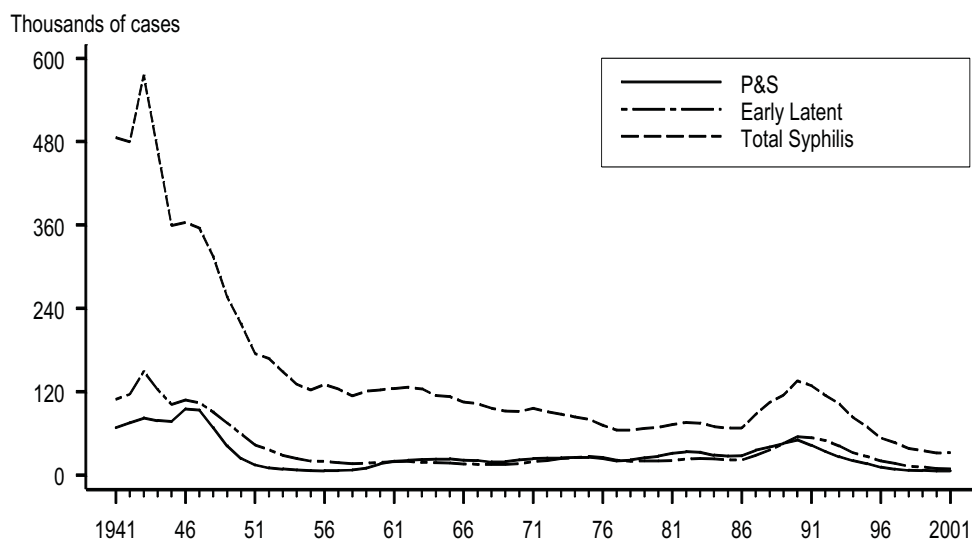
<sup>4</sup> Centers for Disease Control and Prevention. Resurgent bacterial sexually transmitted disease among men who have sex with men – King County, Washington, 1997-1999. *MMWR* 1999; 48:773-777.

<sup>5</sup> Centers for Disease Control and Prevention. Outbreak of syphilis among men who have sex with men - Southern California, 2000. *MMWR* 2001; 50(7): 117-20.

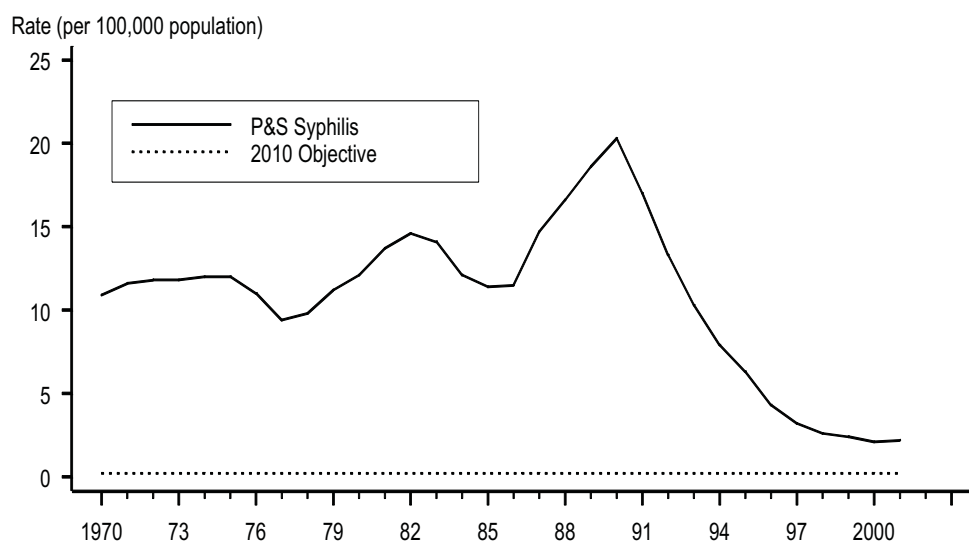
<sup>6</sup> U.S. Department of Health and Human Services. *Healthy People 2010*. 2nd ed. With Understanding and Improving Health and Objectives for Improving Health. 2 vols. Washington, DC: U.S. Government Printing Office, November 2000.

<sup>7</sup> Centers for Disease Control and Prevention. Congenital Syphilis – United States, 2000. *MMWR* 2001;50(27):573-77.

**Figure 20. Syphilis — Reported cases by stage of illness: United States, 1941–2001**

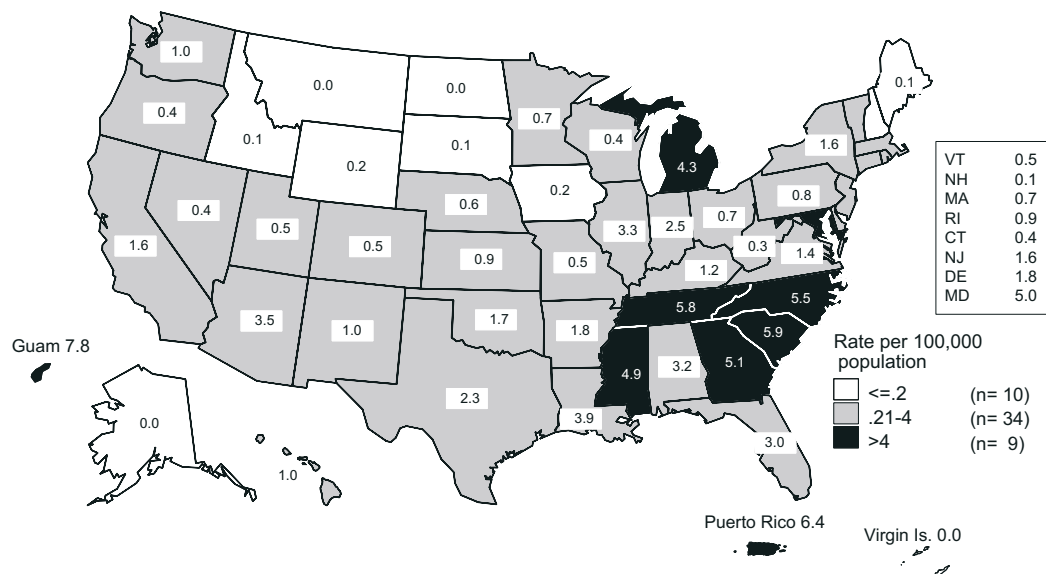


**Figure 21. Primary and secondary syphilis — Reported rates: United States, 1970–2001 and the Healthy People year 2010 objective**



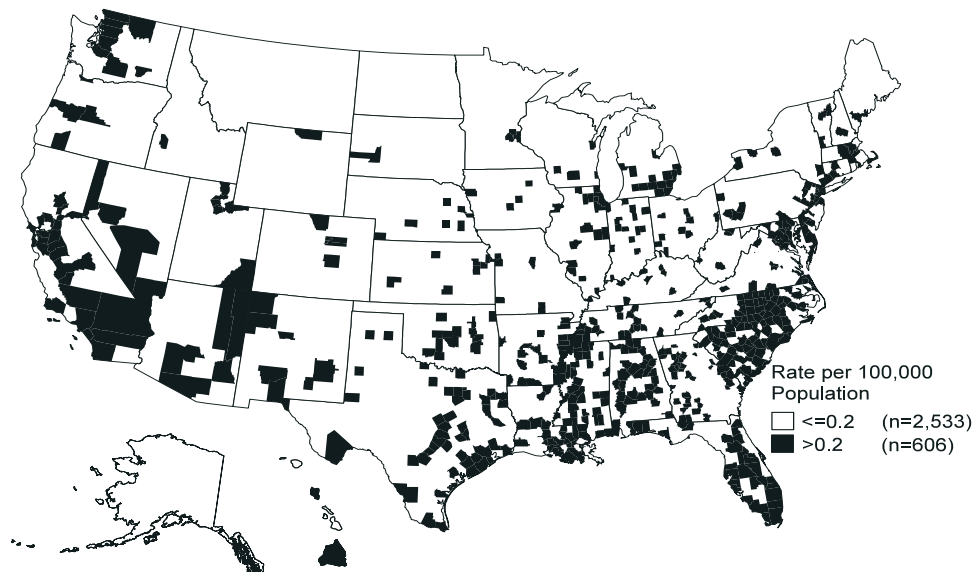
Note: The Healthy People 2010 (HP2010) objective for primary and secondary syphilis is 0.2 case per 100,000 population.

**Figure 22. Primary and secondary syphilis — Rates by state: United States and outlying areas, 2001**

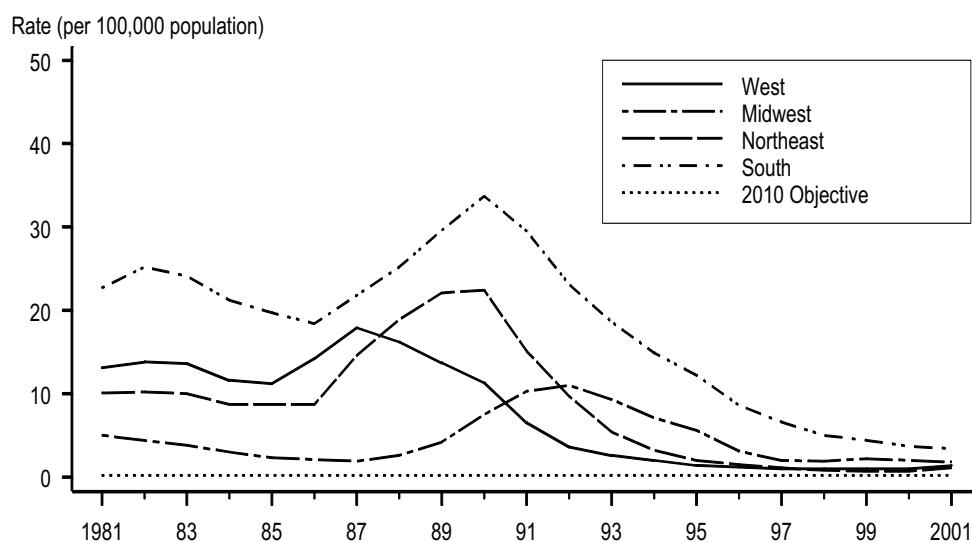


Note: The total rate of primary and secondary syphilis for the United States and outlying areas (including Guam, Puerto Rico and Virgin Islands) was 2.2 per 100,000 population. The Healthy People year 2010 objective is 0.2 per 100,000 population.

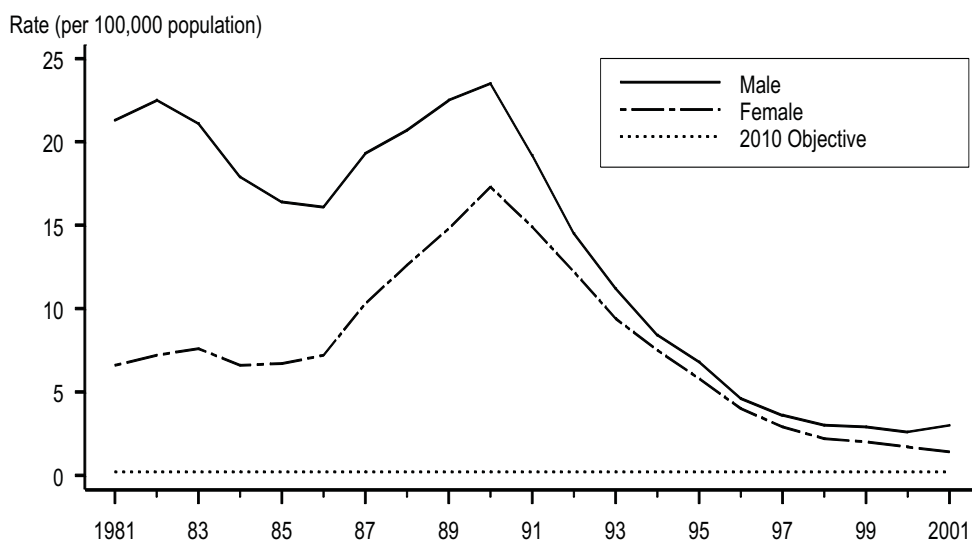
**Figure 23. Primary and secondary syphilis — Counties with rates above and counties with rates below the Healthy People year 2010 objective: United States, 2001**



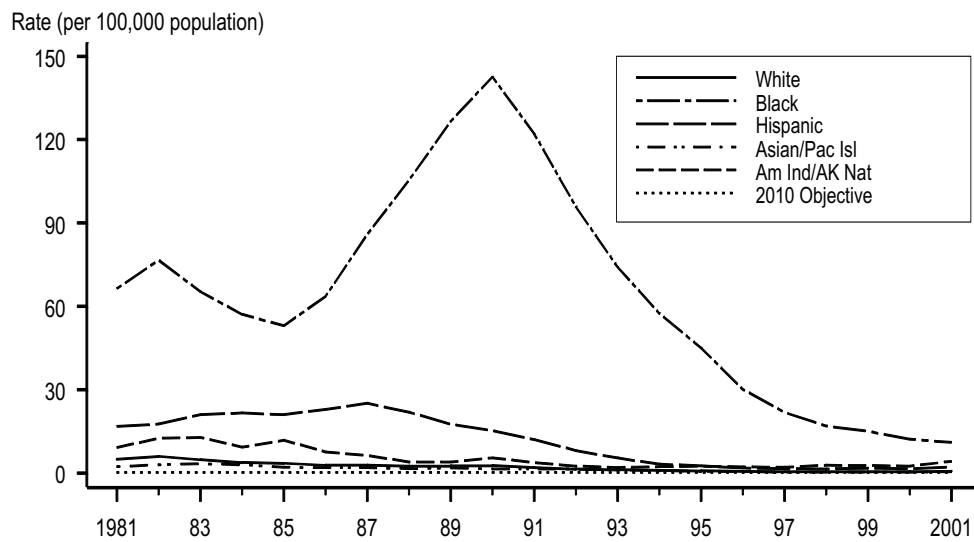
**Figure 24. Primary and secondary syphilis — Rates by region: United States, 1981–2001 and the Healthy People year 2010 objective**



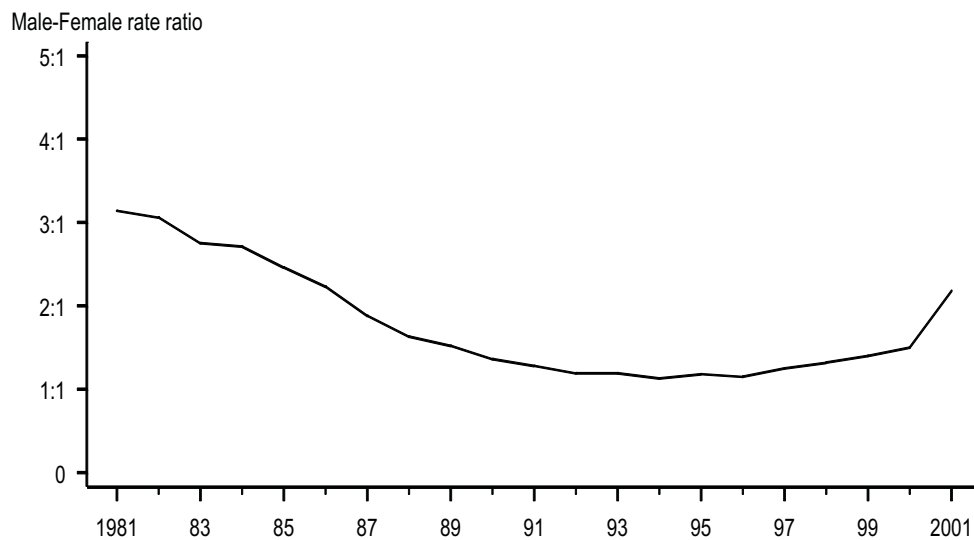
**Figure 25. Primary and secondary syphilis — Rates by sex: United States, 1981–2001 and the Healthy People year 2010 objective**



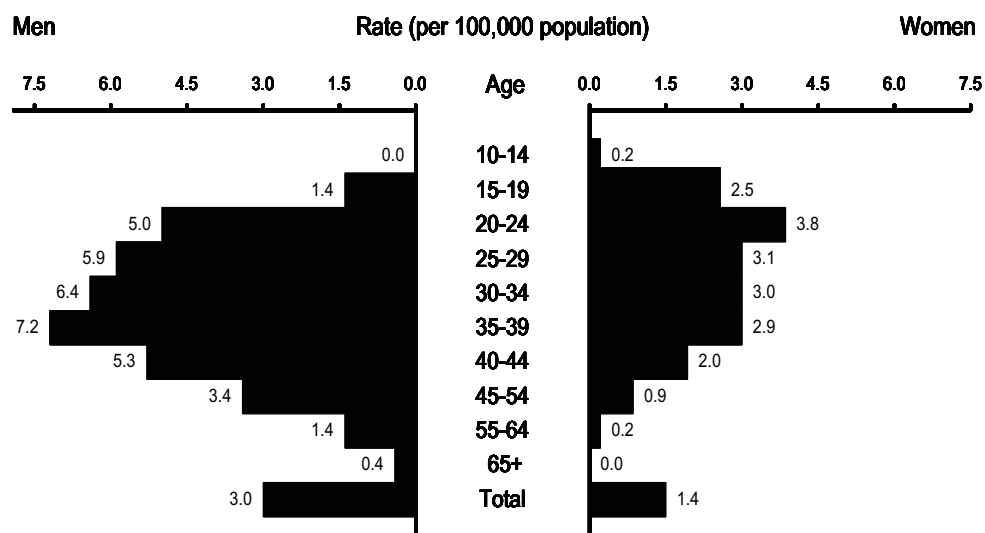
**Figure 26. Primary and secondary syphilis — Rates by race and ethnicity: United States, 1981–2001 and the Healthy People year 2010 objective**



**Figure 27. Primary and secondary syphilis — Male to female rate ratios: United States, 1981–2001**

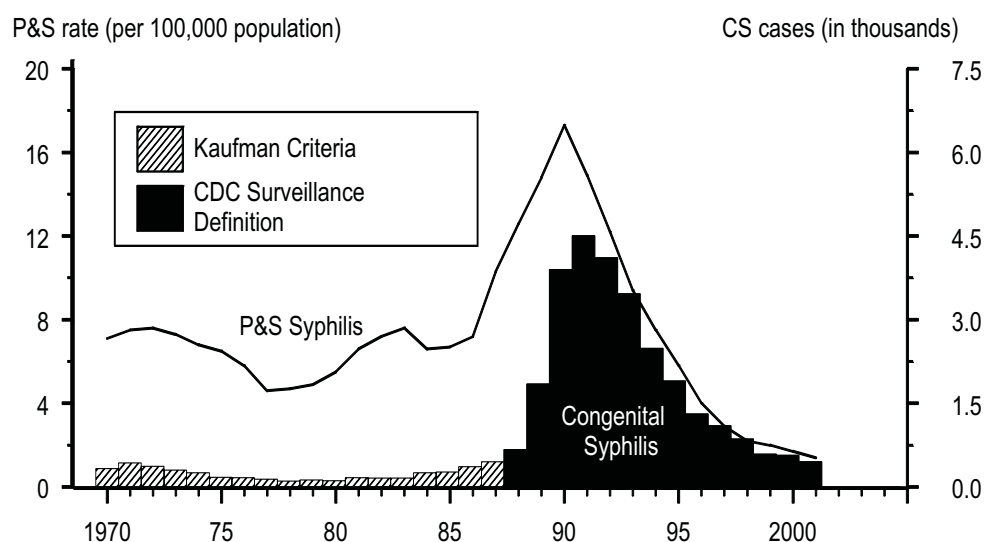


**Figure 28. Primary and secondary syphilis — Age- and sex-specific rates: United States, 2001**



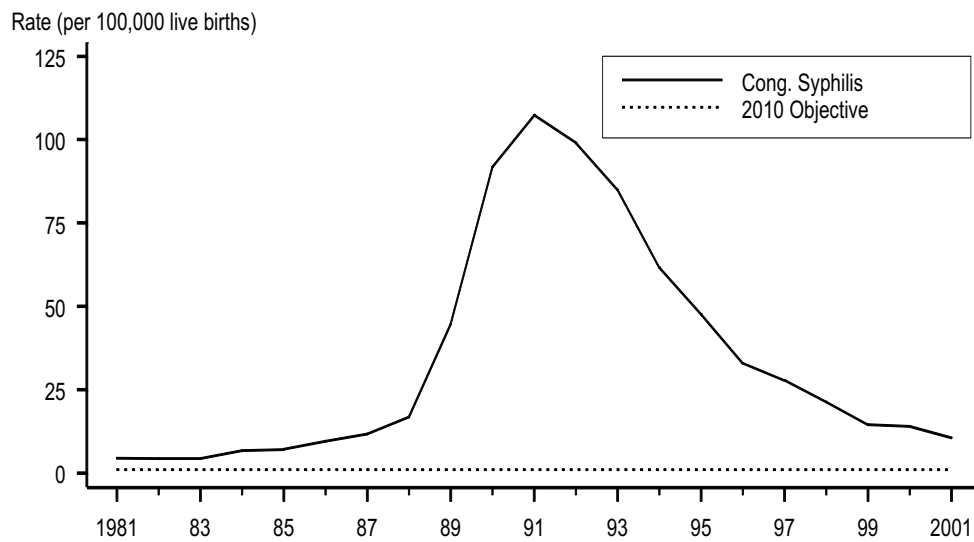
Note: See Table 34 and Appendix for more information.

**Figure 29. Congenital syphilis — Reported cases for infants <1 year of age and rates of primary and secondary syphilis among women: United States, 1970–2001**



Note: The surveillance case definition for congenital syphilis changed in 1988 (see Appendix). Case counts for congenital syphilis shown in this graph correspond to those listed in Table 40.

**Figure 30. Congenital syphilis — Rates for infants <1 year of age: United States, 1981–2001 and the Healthy People year 2010 objective**



Note: The Healthy People 2010 (HP2010) objective for primary and secondary syphilis is 0.2 case per 100,000 population. The surveillance case definition for congenital syphilis changed in 1988 (see Appendix).



## Other Sexually Transmitted Diseases

Since 1987, reported cases of chancroid have declined steadily (Figure 31, Table 1). In 2001, a total of 38 cases of chancroid were reported in the United States. Only nine states and one outlying area reported one or more cases of chancroid in 2001 and two of these states (South Carolina and Texas) accounted for 55.3% of the 38 reported cases in the U.S. New York and Texas had notable declines in number of cases between 2000 and 2001 (New York: 26 to 3, Texas: 19 to 6) (Table 46). Although the decline in reported chancroid cases most likely reflects a decline in the incidence of this disease, these data should be interpreted with caution in view of the fact that *Haemophilus ducreyi*, the causative organism of chancroid, is difficult to culture and, as a result, this condition may be substantially underdiagnosed.<sup>1,2</sup>

Case reporting data for genital herpes simplex virus (HSV), genital warts, human papillomavirus, non-gonococcal urethritis, and trichomoniasis are not available. Ongoing trend data are limited to estimates of the office visits in physicians' office practices provided by the National Disease and Therapeutic Index (NDTI) (Figures 32 and 34-36).

Serious consequences of genital herpes simplex virus infection include lifelong recurrent episodes of painful genital lesions, increased likelihood of HIV transmission and acquisition, and, for women who acquire genital herpes in pregnancy, potentially fatal neonatal infection.<sup>3</sup> Data on genital herpes simplex virus type 2 (HSV-2) seroprevalence among the non-institutionalized U.S. population are available from the National Health and Nutrition Examination Survey (NHANES). In NHANES III (1988-1994), HSV-2 seroprevalence among persons at least 12 years of age was 21.9%, a prevalence which was 30% higher than the age-adjusted HSV-2 seroprevalence from NHANES II (1976-1980). Statistically significant increases in seroprevalence were concentrated in three of the youngest age groups which include persons aged 12 to 39 years (Figure 33).<sup>4</sup> Women had a higher seroprevalence than men regardless of age or race/ethnicity.<sup>5</sup>

For data on PID, see the **Special Focus Profile** on Women and Infants.

---

<sup>1</sup> Schulte JM, Martich FA, Schmid GP. Chancroid in the United States, 1981-1990: Evidence for underreporting of cases. *MMWR* 1992;41(no. SS-3):57-61.

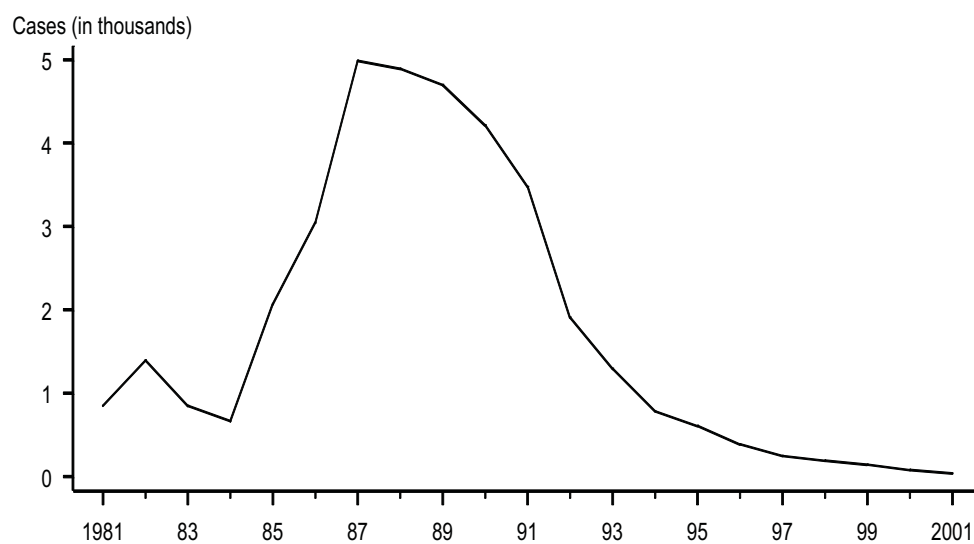
<sup>2</sup> Mertz KJ, Trees D, Levine WC, et al. Etiology of genital ulcers and prevalence of human immunodeficiency virus coinfection in 10 US cities. *J Infect Dis* 1998;178:1795-8.

<sup>3</sup> Handsfield HH, Stone KM, Wasserheit JN. Prevention agenda for genital herpes. *Sex Transm Dis* 1999; 26:228-231.

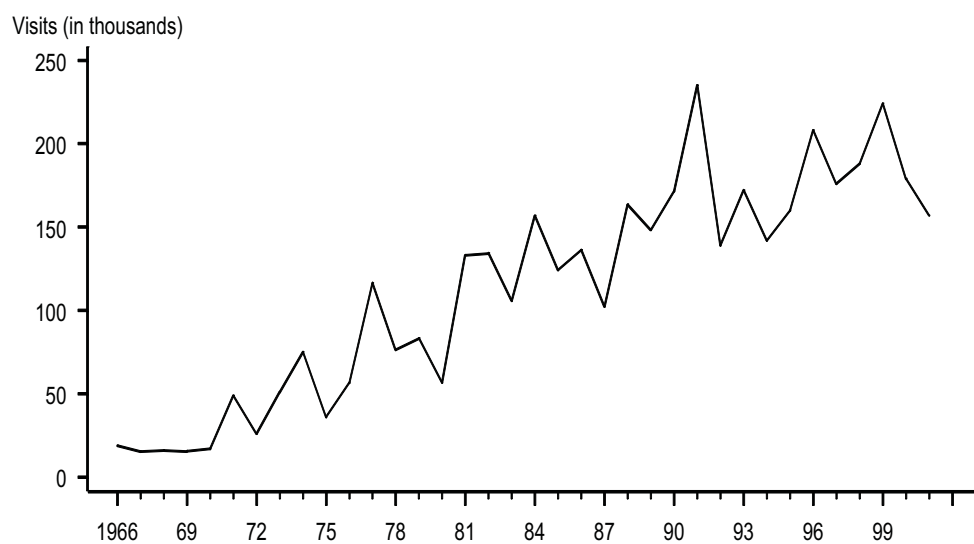
<sup>4</sup> Fleming DT, McQuillan GM, Johnson RE, et al. Herpes simplex virus type 2 in the United States, 1976 to 1994. *N Engl J Med* 1997;337:1105-11.

<sup>5</sup> Xu F, Schillinger JA, Sternberg MR, et al. Seroprevalence and coinfection with herpes virus type 1 and type 2 in the United States, 1988-1994. *J Infect Dis* 2002;185:1019-24.

**Figure 31. Chancroid — Reported cases: United States, 1981–2001**



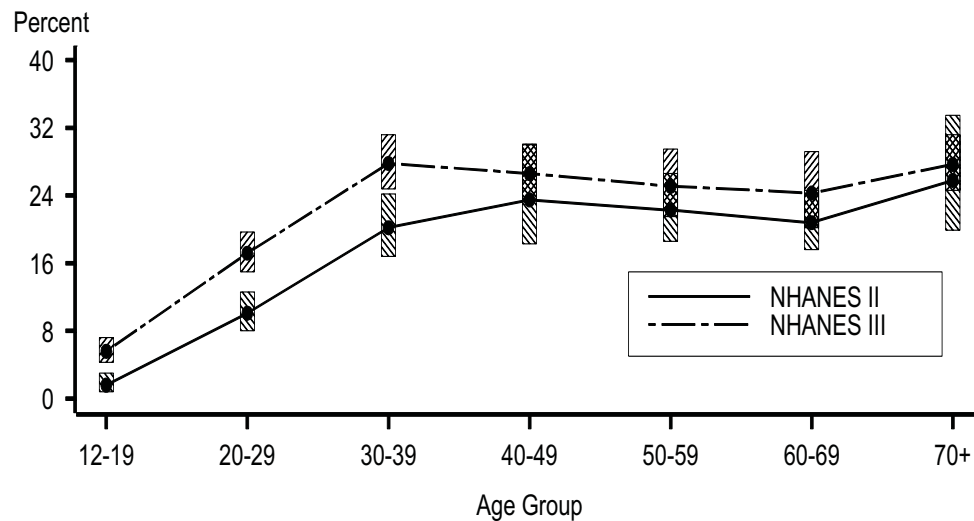
**Figure 32. Genital herpes — Initial visits to physicians' offices: United States, 1966–2001**



Note: See Appendix.

SOURCE: National Disease and Therapeutic Index (IMS America, Ltd.)

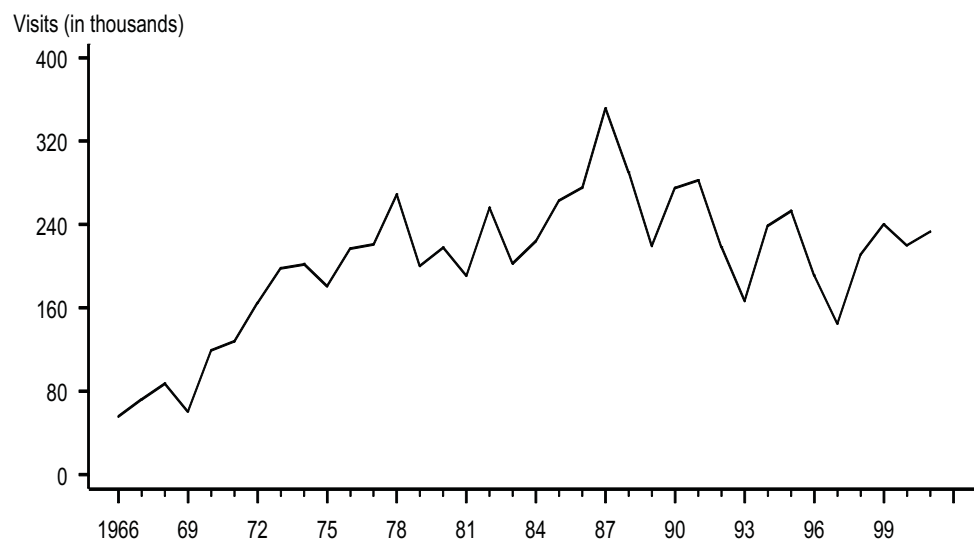
**Figure 33. Genital herpes simplex virus type 2 infections — Percent seroprevalence according to age in NHANES\* II (1976-1980) and NHANES III (1988-1994)**



Note: Bars indicate 95% confidence intervals.

\*National Health and Nutrition Examination Survey

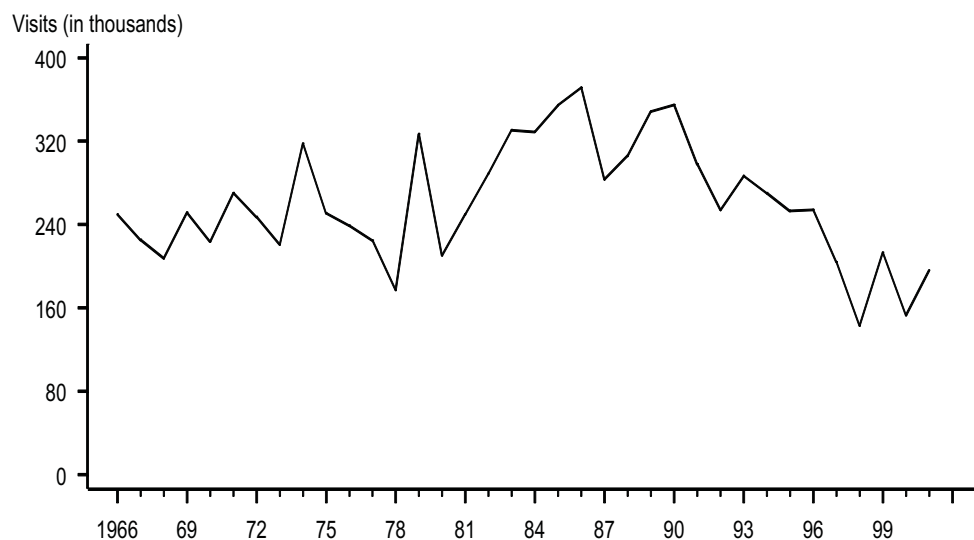
**Figure 34. Genital warts — Initial visits to physicians' offices: United States, 1966–2001**



Note: See Appendix.

SOURCE: National Disease and Therapeutic Index (IMS America, Ltd.)

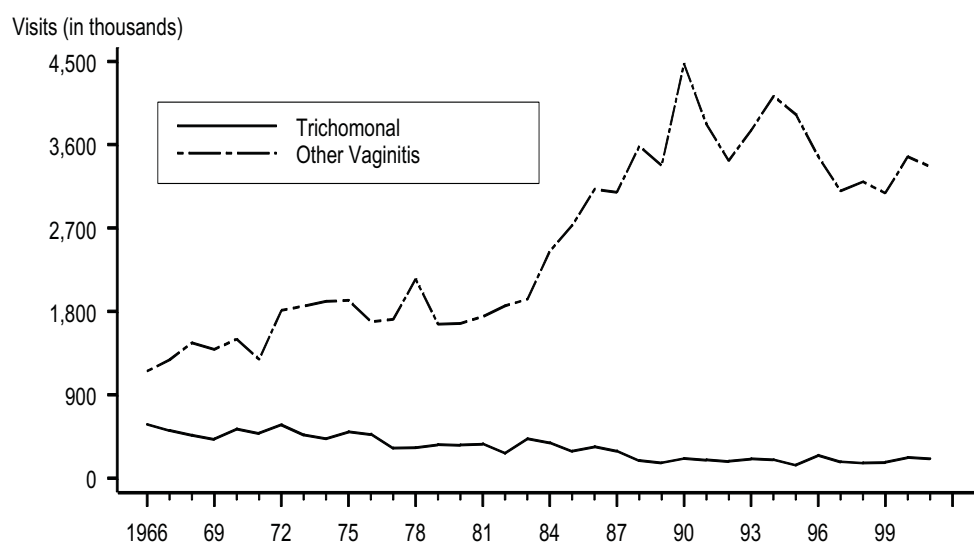
**Figure 35. Nonspecific urethritis — Initial visits to physicians' offices by men:  
United States, 1966–2001**



Note: See Appendix.

SOURCE: National Disease and Therapeutic Index (IMS America, Ltd.)

**Figure 36. Trichomonal and other vaginal infections — Initial visits to physicians' offices:  
United States, 1966–2001**



Note: See Appendix.

SOURCE: National Disease and Therapeutic Index (IMS America, Ltd.)

## Special Focus Profiles

The **Special Focus Profiles** highlight trends and distribution of sexually transmitted diseases (STDs) in populations of particular interest for STD and HIV prevention programs in state and local health departments. These populations are most vulnerable to STDs and their consequences: women and infants; adolescents and young adults; minorities; men who have sex with men (MSM); persons entering corrections facilities; and populations in the southern United States. The **Special Focus Profiles** refer to figures located in disease-specific sections in the **National Profile** and additional figures (Figures A-MM) that highlight specific points made in the text.



## STDs in Women and Infants

### Public Health Impact

Women and infants disproportionately bear the long term consequences of STDs. Women infected with *Neisseria gonorrhoeae* or *Chlamydia trachomatis* can develop pelvic inflammatory disease (PID), which, in turn, may lead to reproductive system morbidity such as ectopic pregnancy and tubal factor infertility. If not adequately treated, 20% to 40% of women infected with chlamydia<sup>1</sup> and 10% to 40% of women infected with gonorrhea<sup>2</sup> may develop PID. Among women with PID, scarring will cause involuntary infertility in 20%, ectopic pregnancy in 9%, and chronic pelvic pain in 18%.<sup>3</sup> Approximately 70% of chlamydial infections and 50% of gonococcal infections in women are asymptomatic.<sup>4,5,6</sup> These infections are detected primarily through screening programs. The vague symptoms associated with chlamydial and gonococcal PID cause 85% of women to delay seeking medical care, thereby increasing the risk of infertility and ectopic pregnancy.<sup>7</sup> Data from a randomized controlled trial of chlamydia screening in a managed care setting suggest that such screening programs can reduce the incidence of PID by as much as 60%.<sup>8</sup>

Gonorrhea and chlamydia can also result in adverse outcomes of pregnancy, including neonatal ophthalmia and, in the case of chlamydia, neonatal pneumonia. Although topical prophylaxis at delivery is effective for prevention of ophthalmia neonatorum, prevention of neonatal pneumonia requires prenatal detection and treatment.

While the great majority of infections with human papillomavirus (HPV) in women do not cause cervical cancer, infections with HPV are a major concern because persistent infection with specific types (e.g., types 16, 18, 31, 33, 35, and 45), are causally related to cervical cancer; these types also cause Pap smear abnormalities. Other types (e.g., types 6 and 11) cause genital warts, low grade Pap smear abnormalities and, rarely, recurrent respiratory papillomatosis in infants born to infected mothers.<sup>9</sup>

Genital infections with herpes simplex virus have serious consequences for pregnant women including potentially fatal neonatal infections.<sup>10</sup>

When a woman has a syphilis infection during pregnancy, she may transmit the infection to the fetus in utero. This may result in fetal death or an infant born with physical and mental developmental disabilities. Most cases of congenital syphilis are preventable if women are screened for syphilis and treated early during prenatal care.<sup>11</sup>

### Observations

- Between 2000 and 2001, the reported case rate of chlamydial infections in women increased from 397.3 to 435.2 per 100,000 females (Figure 5, Table 5). Chlamydia rates exceed gonorrhea rates among women in all states (Figures A and B, Tables 5 and 15).

- In 2001, the median state-specific chlamydia test positivity among 15- to 24-year-old women screened in selected prenatal clinics in 22 states and Puerto Rico was 7.4% (range 3.7% to 13.5%) (Figure F).
- Gonorrhea rates among women were higher than the overall HP 2010 objective of 19.0 cases per 100,000 population<sup>12</sup> in 42 states and two outlying areas in 2001 (Figure B, Table 15). As in previous years, the highest rates of gonorrhea among women in 2001 occurred in the South (Figure B).
- Like chlamydia, gonorrhea is often asymptomatic in women and can only be identified through screening. Large-scale screening programs for gonorrhea in women began in the late 1970s. After an initial increase in cases detected through screening, gonorrhea rates for both women and men declined steadily throughout the 1980s and early 1990s (Figure 12, Tables 15 and 16). The gonorrhea rate for women in 2001 (128.2 per 100,000 females) was similar to the 2000 rate of 126.7 cases per 100,000 females and the 1999 rate of 128.6 cases. The gonorrhea rate among men in 2001 was also similar to the 2000 rate. Men with gonorrhea are usually symptomatic and may seek care; therefore, trends in men may be a relatively good indicator of trends in incidence of disease. As with chlamydia, trends in reported gonorrhea rates among women are more likely to reflect screening practices as well as the actual burden of disease.
- In 2001, the median state-specific gonorrhea test positivity among 15- to 24-year-old women screened in selected prenatal clinics in 16 states was 0.9% (range 0.0% to 4.3%) (Figure G).
- The HP2010 objective for primary and secondary (P&S) syphilis is 0.2 case per 100,000 population. In 2001, 29 states and two outlying areas reported rates of P&S syphilis for women that were greater than 0.2 case per 100,000 population (Figure C, Table 28).
- The HP2010 objective for congenital syphilis is 1.0 case per 100,000 live births. Twenty-seven states and three outlying areas had reported rates higher than this objective in 2001 (Figure D, Tables 41 and 42).
- The rate of congenital syphilis closely follows the trend of P&S syphilis in women (Figure 29). Peaks in congenital syphilis usually occur one year after peaks in P&S syphilis in women. The congenital syphilis rate peaked in 1991 at 107.3 cases per 100,000 live births and has declined by 89.7% to 11.1 cases per 100,000 live births in 2001 (Figure 30, Table 40). The rate of P&S syphilis in women peaked at 17.3 cases per 100,000 females in 1990 and declined 91.9% to 1.4 cases per 100,000 females in 2001 (Figure 29).
- The 2001 reported rate of congenital syphilis for the United States is currently well above the HP2010 objective of 1.0 case per 100,000 live births. This objective is many times greater than the rate of congenital syphilis of most industrialized countries where syphilis and congenital syphilis have nearly been eliminated.<sup>13</sup>
- While most cases of congenital syphilis occur among infants whose mothers have had some prenatal care (Figure E), late or limited prenatal care has been associated with congenital syphilis. Failure of health care providers to adhere to maternal syphilis screening recommendations also may contribute to the occurrence of congenital syphilis.<sup>14</sup>

- Accurate estimates of pelvic inflammatory disease (PID) and tubal factor infertility resulting from gonococcal and chlamydial infections are difficult to obtain. Definitive diagnosis of these conditions can be complex. Trends in hospitalizations for PID have declined steadily throughout the 1980s and early 1990s, but have remained relatively constant from 1995 through 1999 (Figure I). These trends may reflect changes in the etiology of PID (with increasing proportions of more indolent chlamydial infection) as well as changes in the clinical diagnosis and management of PID rather than true trends in disease.<sup>15</sup> A greater proportion of women diagnosed with PID in the 1990s have been treated in outpatient instead of inpatient settings when compared to women diagnosed with PID in the 1980s.
- The reported number of initial visits to physicians' offices for PID through the National Disease and Therapeutic Index (NDTI) has generally declined from 1993 through 1998 but has remained, for the most part, unchanged since 1998 (Figure J). In 2000, an estimated 337,053 cases of PID were diagnosed in emergency departments among women 15- to 44-years of age (National Hospital Ambulatory Medical Care Survey, NCHS).
- Evidence suggests that health care practices associated with ectopic pregnancy changed in the late 1980s and early 1990s. Before that time, treatment of ectopic pregnancy usually required admission to a hospital. Hospitalization statistics were therefore useful for monitoring trends in ectopic pregnancy. Beginning in 1989, hospitalizations for ectopic pregnancy began to decline. The number of reported hospitalizations for ectopic pregnancy remained the same in 2000 compared to the number reported in 1999 (Figure H). Data suggest that nearly half of all ectopic pregnancies are treated on an outpatient basis.<sup>16</sup>

---

<sup>1</sup> Stamm WE, Guinan ME, Johnson C. Effect of treatment regimens for *Neisseria gonorrhoeae* on simultaneous infections with *Chlamydia trachomatis*. *N Engl J Med* 1984;310:545-9.

<sup>2</sup> Platt R, Rice PA, McCormack WM. Risk of acquiring gonorrhea and prevalence of abnormal adnexal findings among women recently exposed to gonorrhea. *JAMA* 1983;250:3205-9.

<sup>3</sup> Westrom L, Joesoef R, Reynolds G, et al. Pelvic inflammatory disease and fertility: a cohort study of 1,844 women with laparoscopically verified disease and 657 control women with normal laparoscopy. *Sex Transm Dis* 1992;9:185-92.

<sup>4</sup> Hook EW III, Handsfield HH. Gonococcal infections in the adult. In: Holmes KK, Mardh PA, Sparling PF, et al, eds. *Sexually Transmitted Diseases*, 2nd edition. New York City: McGraw-Hill, Inc, 1990:149-65.

<sup>5</sup> Stamm WE, Holmes KK. *Chlamydia trachomatis* infections in the adult. In: Holmes KK, Mardh PA, Sparling PF, et al, eds. *Sexually Transmitted Diseases*, 2nd edition. New York City: McGraw-Hill, Inc, 1990:181-93.

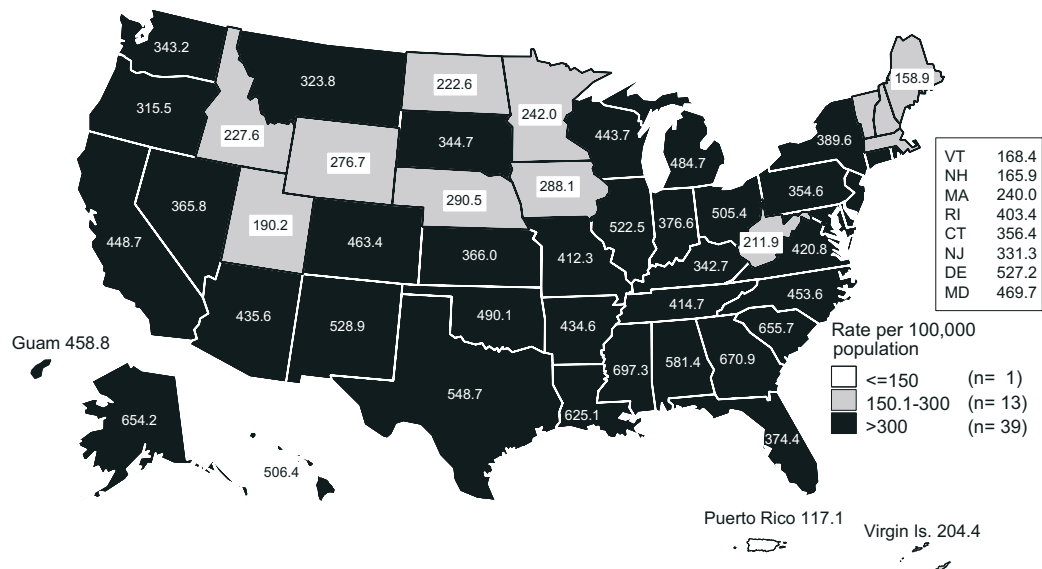
<sup>6</sup> Zimmerman HL, Potterat JJ, Dukes RL, et al. Epidemiologic differences between chlamydia and gonorrhea. *Am J Public Health* 1990;80:1338-42.

<sup>7</sup> Hillis SD, Joesoef R, Marchbanks PA, et al. Delayed care of pelvic inflammatory disease as a risk factor for impaired fertility. *Am J Obstet Gynecol* 1993;168:1503-9.

<sup>8</sup> Scholes D, Stergachis A, Heidrich FE, Andrilla H, Holmes KK, Stamm WE. Prevention of pelvic inflammatory disease by screening for cervical chlamydial infection. *N Engl J Med* 1996;34(21):1362-6.

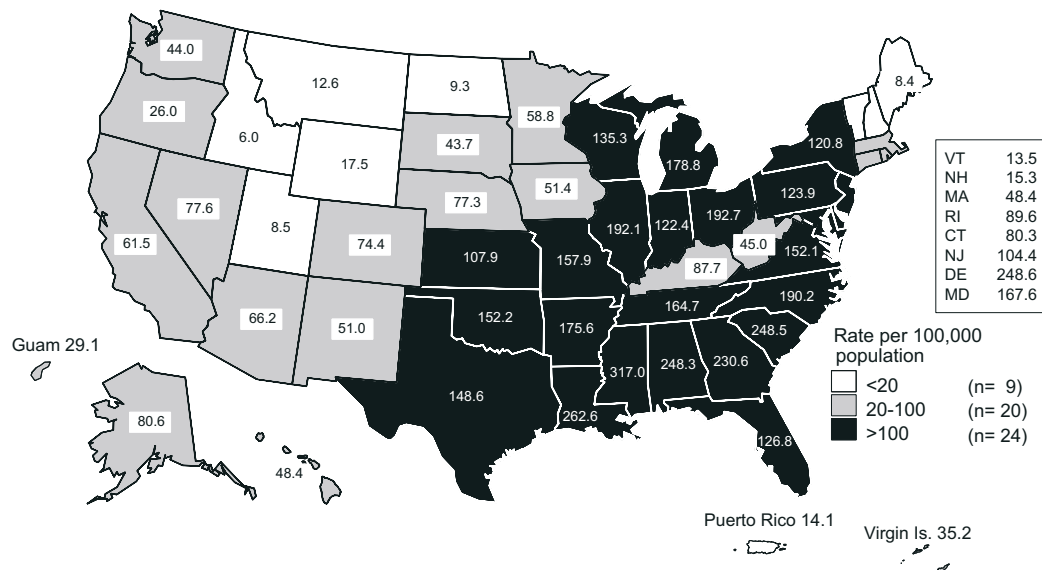
- <sup>9</sup> Division of STD Prevention. *Prevention of Genital HPV Infection and Sequelae: Report of an External Consultants' Meeting*. National Center for HIV, STD, and TB Prevention, Centers for Disease Control and Prevention, Atlanta, December 1999.
- <sup>10</sup> Handsfield HH, Stone KM, Wasserheit JN. Prevention agenda for genital herpes. *Sex Transm Dis* 1999;26:228-231.
- <sup>11</sup> Centers for Disease Control. Guidelines for prevention and control of congenital syphilis. *MMWR* 1988;37(No.S-1).
- <sup>12</sup> U.S. Department of Health and Human Services. *Healthy People 2010*. 2nd ed. With Understanding and Improving Health and Objectives for Improving Health. 2 vols. Washington, DC: U.S. Government Printing Office, November 2000.
- <sup>13</sup> Division of STD/HIV Prevention. *Healthy People 2000: National Health Promotion and Disease Objectives. Progress Review: Sexually Transmitted Diseases*, October 26, 1994.
- <sup>14</sup> Centers for Disease Control and Prevention. Congenital syphilis - United States, 2000. *MMWR* 2001;50:573-77.
- <sup>15</sup> Rolfs RT, Galaid EI, Zaidi AA. Pelvic inflammatory disease: trends in hospitalization and office visits, 1979 through 1988. *Am J Obstet Gynecol* 1992;166:983-90.
- <sup>16</sup> Centers for Disease Control and Prevention. Ectopic pregnancy in the United States, 1990-1992. *MMWR* 1995;44:46-8.

**Figure A. Chlamydia — Rates for women by state: United States and outlying areas, 2001**



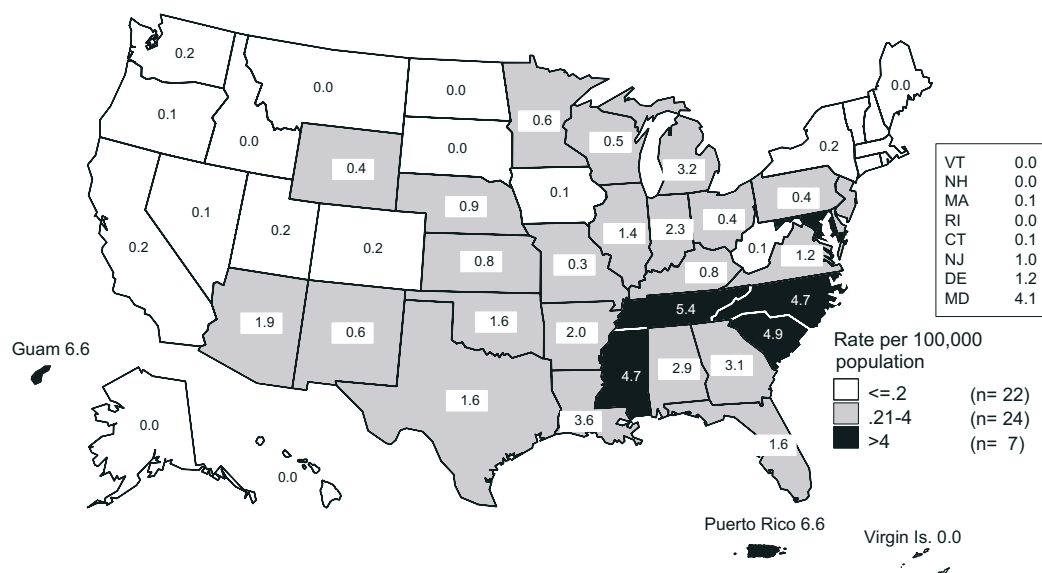
Note: The total rate of chlamydia for women in the United States and outlying areas (including Guam, Puerto Rico and Virgin Islands) was 430.8 per 100,000 population.

**Figure B. Gonorrhea — Rates for women by state: United States and outlying areas, 2001**



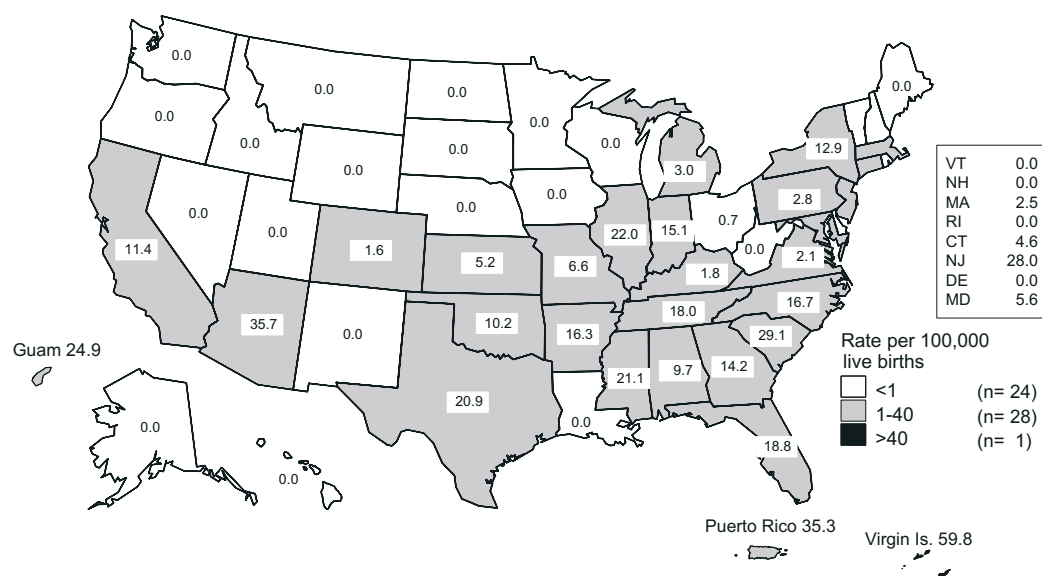
Note: The total rate of gonorrhea for women in the United States and outlying areas (including Guam, Puerto Rico and Virgin Islands) was 126.6 per 100,000 population. The Healthy People year 2010 objective is 19.0 per 100,000 population for women.

**Figure C. Primary and secondary syphilis — Rates for women by state: United States and outlying areas, 2001**



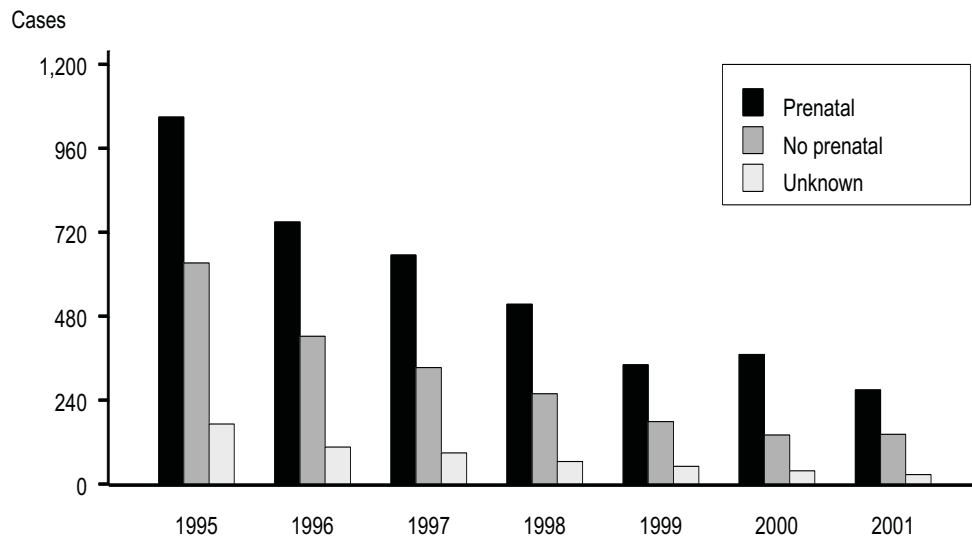
Note: The total rate of primary and secondary syphilis for women in the United States and outlying areas (including Guam, Puerto Rico and Virgin Islands) was 1.4 per 100,000 population. The Healthy People year 2010 objective is 0.2 per 100,000 population.

**Figure D. Congenital syphilis — Rates for infants <1 year of age by state: United States and outlying areas, 2001**

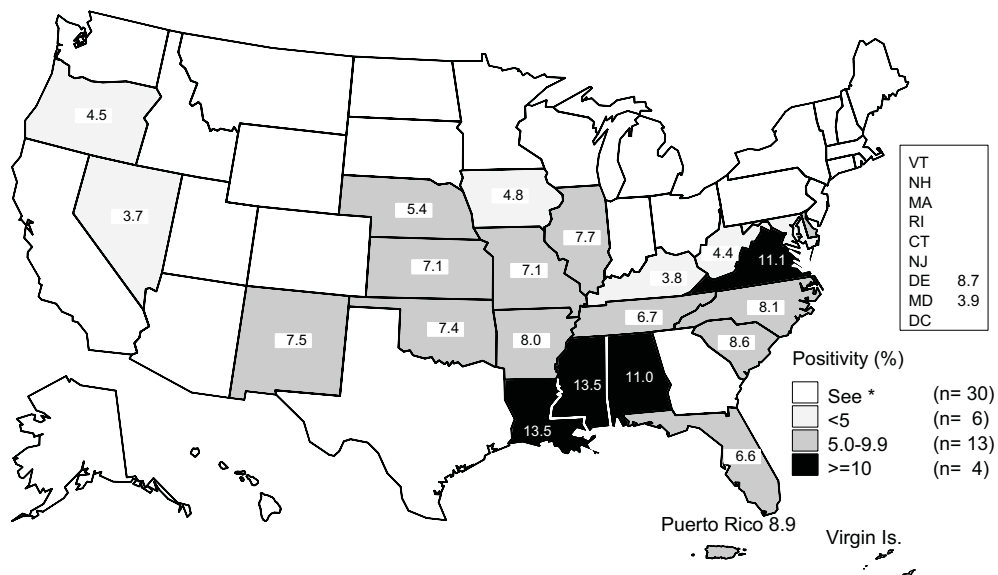


Note: The total rate of congenital syphilis for infants <1 year of age for the United States and outlying areas (including Guam, Puerto Rico and Virgin Islands) was 11.5 per 100,000 live births. The Healthy People year 2010 objective is 1.0 per 100,000 live births.

**Figure E. Congenital syphilis — Cases by prenatal care utilization: United States, 1995-2001**



**Figure F. Chlamydia — Positivity among 15-24 year old women tested in prenatal clinics by state: United States and outlying areas, 2001**

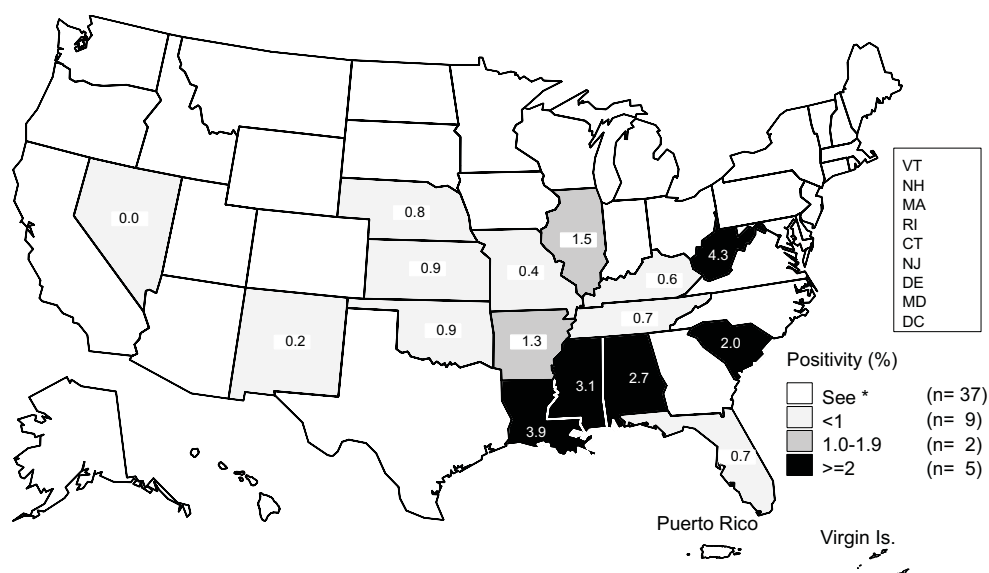


\*States not reporting chlamydia positivity data in prenatal clinics.

Note: States reported chlamydia positivity data on at least 100 women aged 15-24 years during 2001.

SOURCE: Regional Infertility Prevention Program; Office of Population Affairs; Local and State STD Control Programs; Centers for Disease Control and Prevention

**Figure G. Gonorrhea — Positivity among 15-24 year old women tested in prenatal clinics by state: United States and outlying areas, 2001**

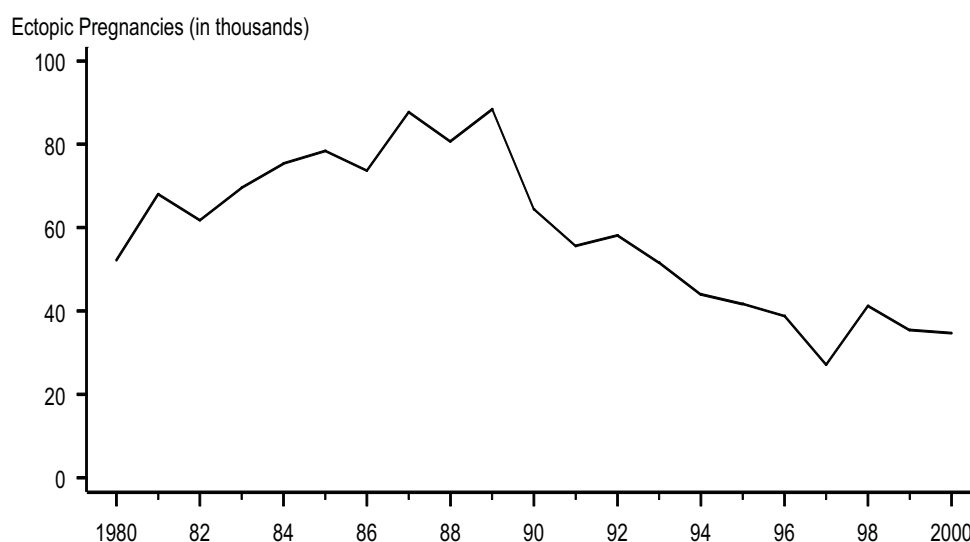


\*States not reporting gonorrhea positivity data in prenatal clinics.

Note: States reported gonorrhea positivity data on at least 100 women aged 15-24 years during 2001.

SOURCE: Regional Infertility Prevention Program; Office of Population Affairs; Local and State STD Control Programs; Centers for Disease Control and Prevention

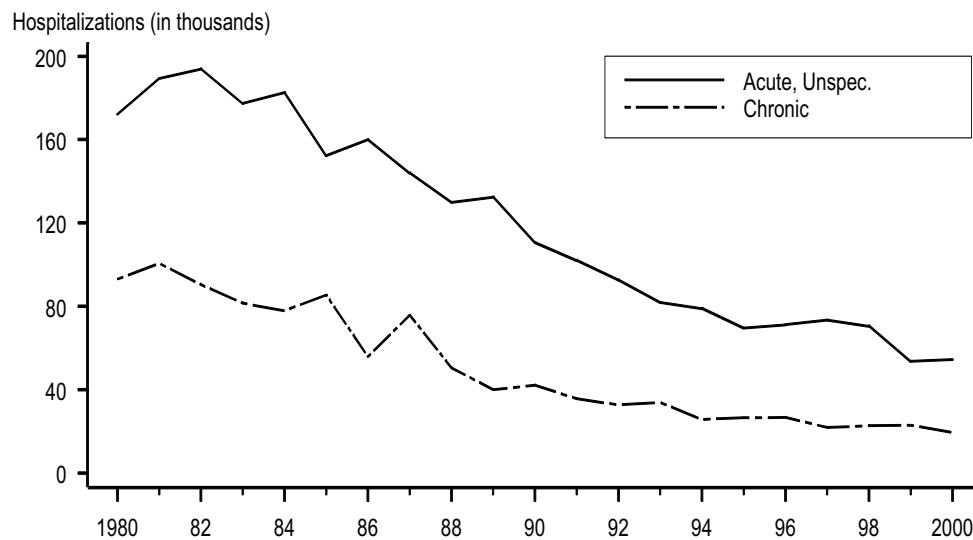
**Figure H. Ectopic pregnancy — Hospitalizations of women 15-44 years of age: United States, 1980-2000**



Note: Some variations in 1981 and 1988 numbers may be due to changes in sampling procedures. The relative standard error for these estimates ranges from 8% to 11%.

SOURCE: National Hospital Discharge Survey (National Center for Health Statistics, CDC)

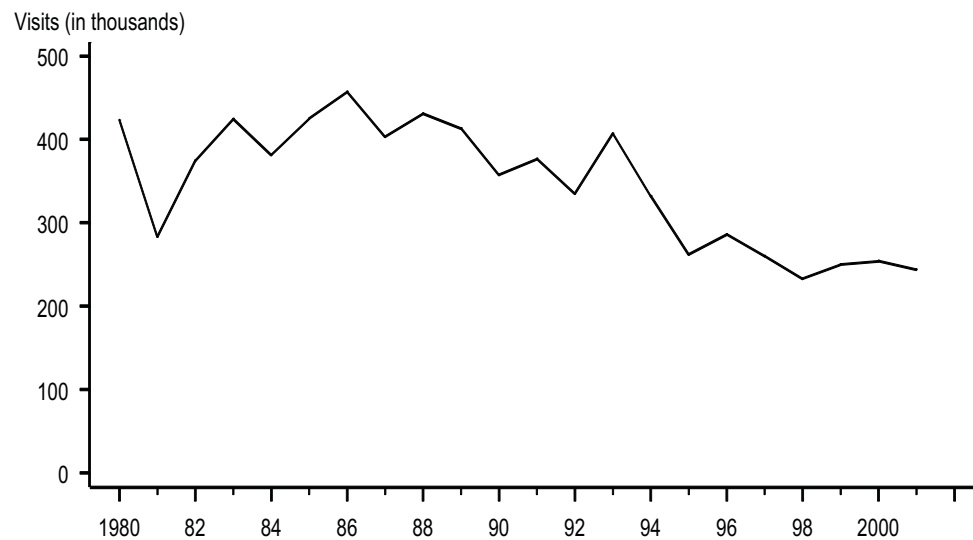
**Figure I. Pelvic inflammatory disease — Hospitalizations of women 15-44 years of age: United States, 1980–2000**



Note: The relative standard error for the estimates of the overall total number of PID cases range from 6% to 9%.

SOURCE: National Hospital Discharge Survey (National Center for Health Statistics, CDC)

**Figure J. Pelvic inflammatory disease — Initial visits to physicians' offices by women 15-44 years of age: United States, 1980–2001**



Note: See Appendix.

SOURCE: National Disease and Therapeutic Index (IMS America, Ltd.)



## STDs in Adolescents and Young Adults

### Public Health Impact

Compared to older adults, adolescents (10- to 19-year-olds) and young adults (20- to 24-year-olds) are at higher risk for acquiring STDs for a number of reasons: they may be more likely to have multiple (sequential or concurrent) sexual partners rather than a single, long-term relationship; and they may select partners at higher risk. In addition, for some STDs, for example *Chlamydia trachomatis*, adolescent women may have a physiologically increased susceptibility to infection due to increased cervical ectopy.

In addition, the higher prevalence of STDs among adolescents reflects multiple barriers to quality STD prevention services, including lack of insurance or other ability to pay, lack of transportation, discomfort with facilities and services designed for adults, and concerns about confidentiality.

### Observations

- Numerous prevalence studies in various clinic populations have shown that sexually active adolescents have high rates of chlamydial infection.<sup>1,2,3</sup> The Regional Infertility Prevention Program that performs large scale screening for detecting chlamydial infections among women attending family planning clinics demonstrate that younger women consistently have higher positivity rates of chlamydia than older women, even as prevalence declines. An example is the Region X Chlamydia Project, which has screened women in family planning clinics since 1988 (Figure K).
- Among women, 15- to 19-year-olds had the highest rate of gonorrhea in 2001 compared to all other age categories (Figure P and Table 21). In addition, 20- to 29-year-old women had the highest rates of primary and secondary syphilis in 2001 (Figure R and Table 34). Among men, 20- to 24-year-olds had the highest rate of gonorrhea and 30- to 39-year-olds had the highest rate of primary and secondary syphilis (Figures Q and S and Tables 21 and 34).
- Rates of gonorrhea among male adolescents generally decreased between the years 1991 and 2001 (Figure Q). In the 15- to 19-year-old group, the rate declined for a third year, going from 337.9 cases per 100,000 males in 1999, to 320.6 in 2000, to 307.5 in 2001, an overall 9.0% decrease. Among young men in the 20- to 24-year-old group, the rate of gonorrhea had generally been declining in the early 1990s but then increased slightly in the late 1990s and now has remained relatively unchanged in 2000 and 2001 (559.4 and 563.6 cases per 100,000 males, respectively).
- In 15- to 19-year-old women, the 2001 gonorrhea rate of 703.2 cases per 100,000 females was similar to the 2000 rate of 699.3. Among young women in the 20- to 24-year-old group, the rate of gonorrhea in 2001 was 664.1, a 6.0%

increase from 626.5 in 2000 and a 22.4% increase from the rate in 1996 (542.7) (Figure P, Table 21).

- In 2001, the highest age-specific gonorrhea rates among women and the third highest rates among men were in the 15- to 19-year-old group (Figure 14 and Table 21).
- Since 1990, approximately 20,000 female National Job Training Program entrants have been screened each year for chlamydia. This program, administered by the U.S. Department of Labor at more than 100 sites throughout the country, is a job training program for economically-disadvantaged youth aged 16 through 24 years. Among women entering the program from 26 states and Puerto Rico in 2001, based on their place of residence before program entry, the median state-specific chlamydia prevalence was 10.6% (range 5.1% to 18.0%) (Figure L). Chlamydial infection is widespread geographically and highly prevalent among these economically-disadvantaged young women.<sup>3</sup>
- Data from National Job Training Program centers submitting gonorrhea specimens to the national contract laboratory from female students aged 16 to 24 years indicate a high prevalence of gonococcal infection in this population. Specimens from at least 100 students from each of 17 states and Puerto Rico, were tested by the contract laboratory; the median state-specific gonorrhea prevalence was 3.7% (range 0.7% to 8.1%) in 2001 (Figure O).
- The Adolescent Women Reproductive Health Monitoring Project was established in 1999 to monitor STD prevalence and reproductive health measures among adolescent women (less than 20 years old) in non-traditional venues, including school-based clinics, juvenile detention centers, drug treatment centers, and organizations serving street youth. In 2001, results from this screening project, which uses urine-based tests, identified a median site-specific chlamydia positivity of 9.6% (range 7.2% to 17.7%) at 16 school-based clinics and 17.6% (range 14.3% to 19.0%) at 16 organizations serving street youth (Figure M). Median site-specific gonorrhea positivity was 1.6% (range 1.2% to 4.8%) at school-based clinics and 4.4% (range 2.7% to 6.4%) at organizations serving street youth (Figure N).
- Among adolescent women attending juvenile detention facilities, data from the Adolescent Women Reproductive Health Monitoring Project and the Jail STD Prevalence Monitoring Project identified a median chlamydia positivity of 14.8% (range 4.0% to 25.8%) (Figure GG) and a median gonorrhea positivity of 5.6% (range 0.0% to 13.6%) (Figure II) (see **STDs in Persons Entering Corrections Facilities**).

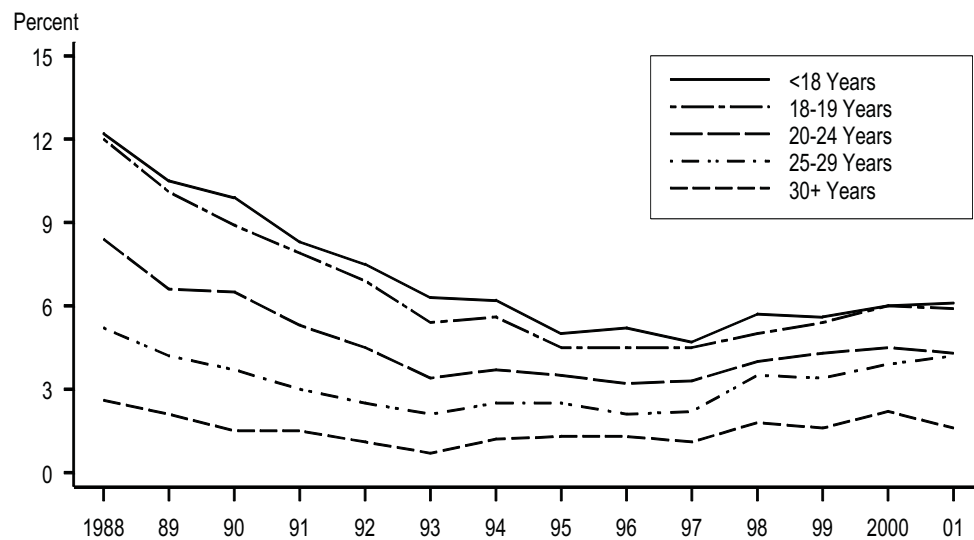
---

<sup>1</sup> Centers for Disease Control and Prevention. Recommendations for the prevention and management of *Chlamydia trachomatis* infections, 1993. *MMWR* 1993;42(No. RR-12).

<sup>2</sup> Lossick J, Delisle S, Fine D, Mosure D, Lee V, Smith C. Regional program for widespread screening for *Chlamydia trachomatis* in family planning clinics. In: Bowie WR, Caldwell HD, Jones RP, et al., eds. *Chlamydial Infections: Proceedings of the Seventh International Symposium of Human Chlamydial Infections*, Cambridge, Cambridge University Press 1990, pp. 575-9.

<sup>3</sup> Mertz, KJ, Ransom RL, St. Louis ME, Groseclose SL, Hadgu A, Levine WC, Hayman C. Decline in the prevalence of genital chlamydia infection in young women entering a National Job Training Program, 1990-1997. *Am J Pub Health* 2001;91(8):1287-1290.

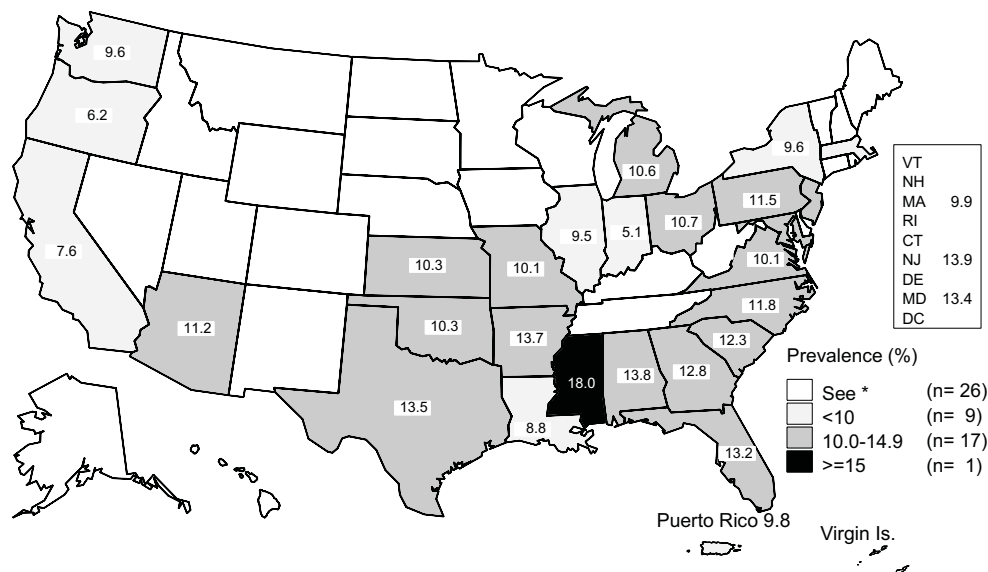
**Figure K. Chlamydia — Positivity among women tested in family planning clinics by age group: Region X, 1988–2001**



Note: Women who met screening criteria were tested. Trends not adjusted for changes in laboratory test method and associated increases in test sensitivity in 1994 and 1999–2001.

SOURCE: Regional Infertility Prevention Program: Region X Chlamydia Project (Alaska, Idaho, Oregon and Washington)

**Figure L. Chlamydia — Prevalence among 16-24 year-old women entering the National Job Training Program by state of residence: United States and outlying areas, 2001**

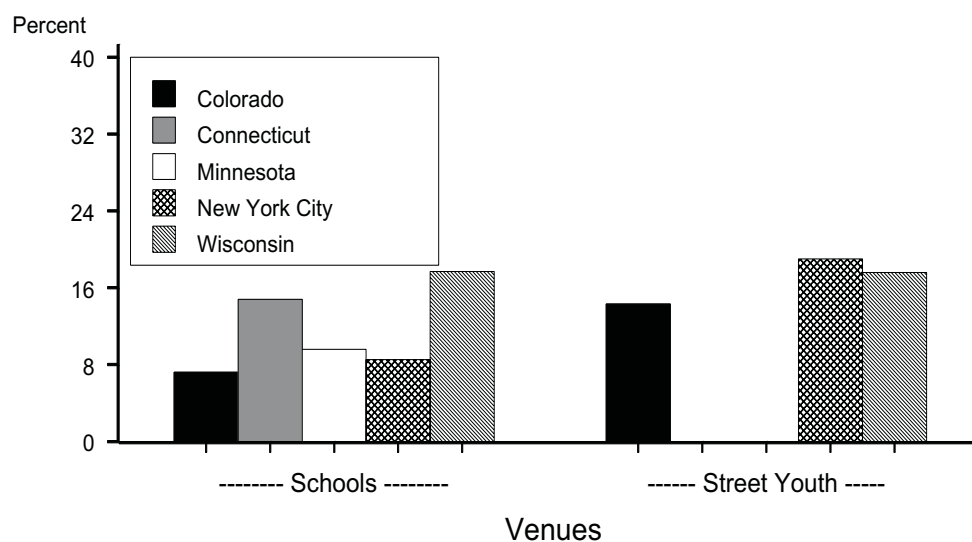


\*Fewer than 100 women residing in these states and entering the National Job Training Program were screened for chlamydia in 2001.

Note: The overall chlamydia prevalence among female students entering the National Job Training Program in 2001 was 10.8%.

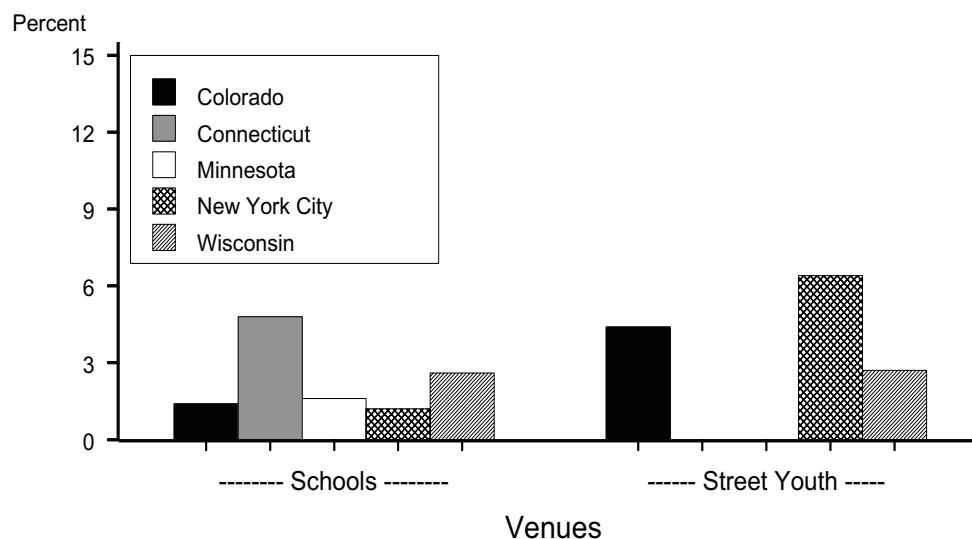
SOURCE: U.S. Department of Labor

**Figure M. Chlamydia — Adolescent Women Reproductive Health Monitoring Project**  
**chlamydia positivity by venue and project area, 2001**



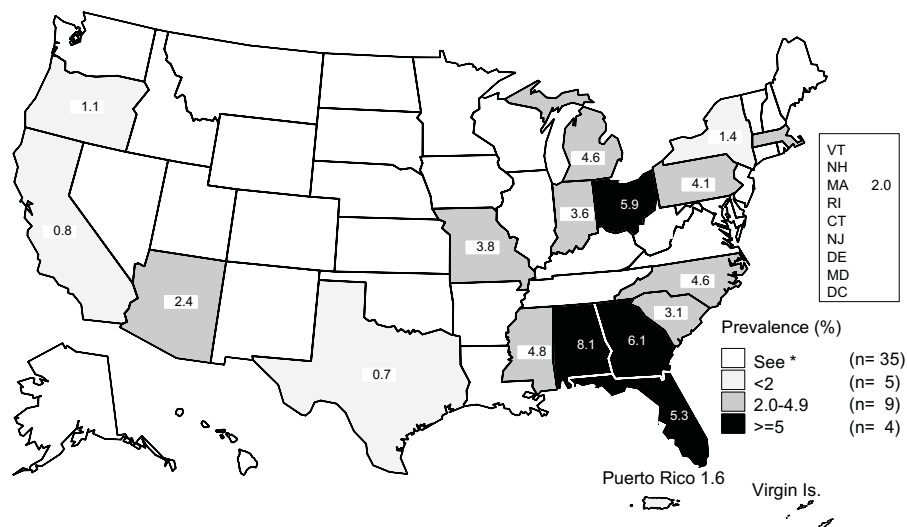
Note: Where data are missing for project areas and venues, no testing or fewer than 50 chlamydia tests were performed at the missing location in 2001.

**Figure N. Gonorrhea — Adolescent Women Reproductive Health Monitoring Project**  
**gonorrhea positivity by venue and project area, 2001**



Note: Where data are missing for project areas and venues, no testing or fewer than 50 gonorrhea tests were performed in 2001.

**Figure O. Gonorrhea — Prevalence among 16-24 year-old women entering the National Job Training Program by state of residence: United States and outlying areas, 2001**

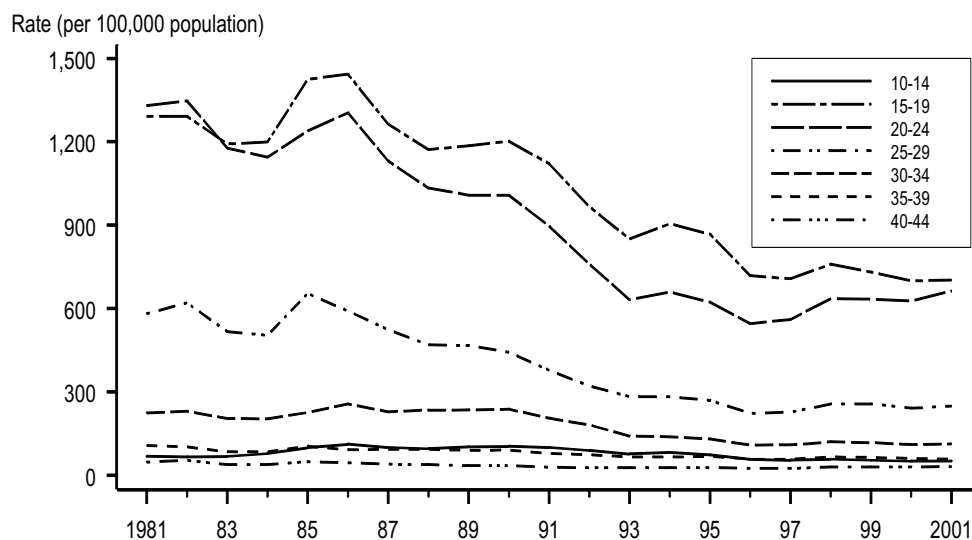


\*Fewer than 100 women residing in these states and entering the National Job Training Program were screened for gonorrhea by the national contract laboratory in 2001.

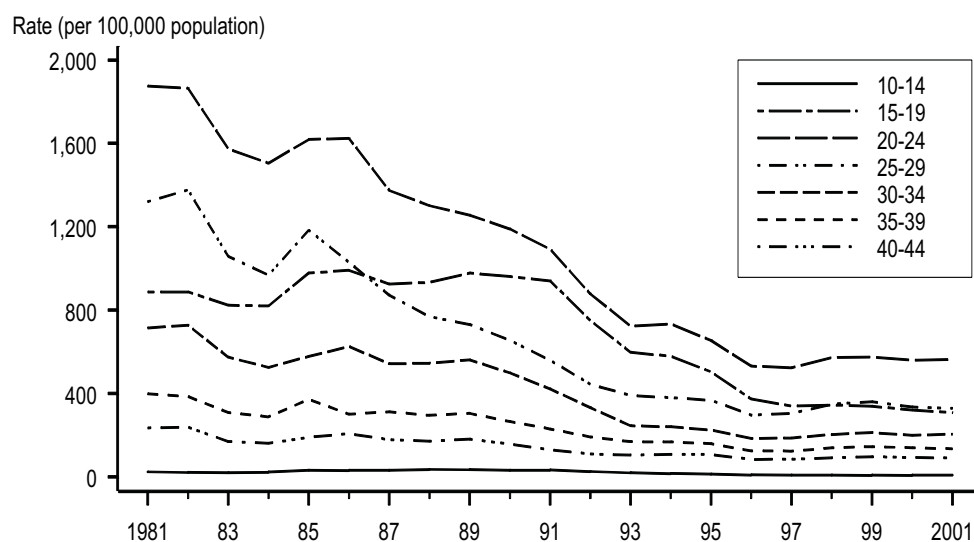
Note: Many training centers test female students for gonorrhea using local laboratories; these results are not available to CDC. For this map, gonorrhea test results for students at centers submitting specimens to the national contract laboratory were included if the number of gonorrhea tests submitted was greater than 90% of the number of chlamydia tests submitted. The overall gonorrhea prevalence among female students entering the National Job Training Program in 2001 was 3.3%.

SOURCE: U.S. Department of Labor

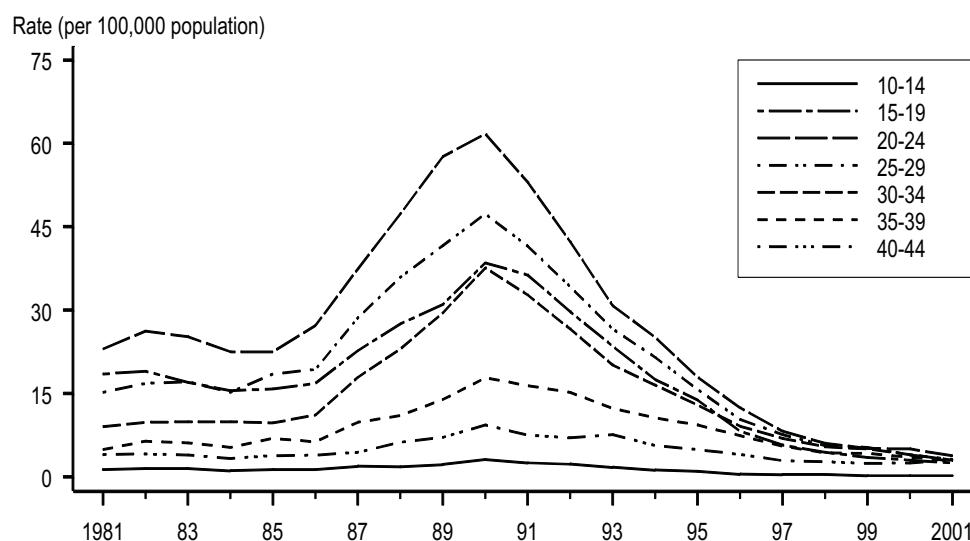
**Figure P. Gonorrhea — Age-specific rates among women 10-44 years of age: United States, 1981-2001**



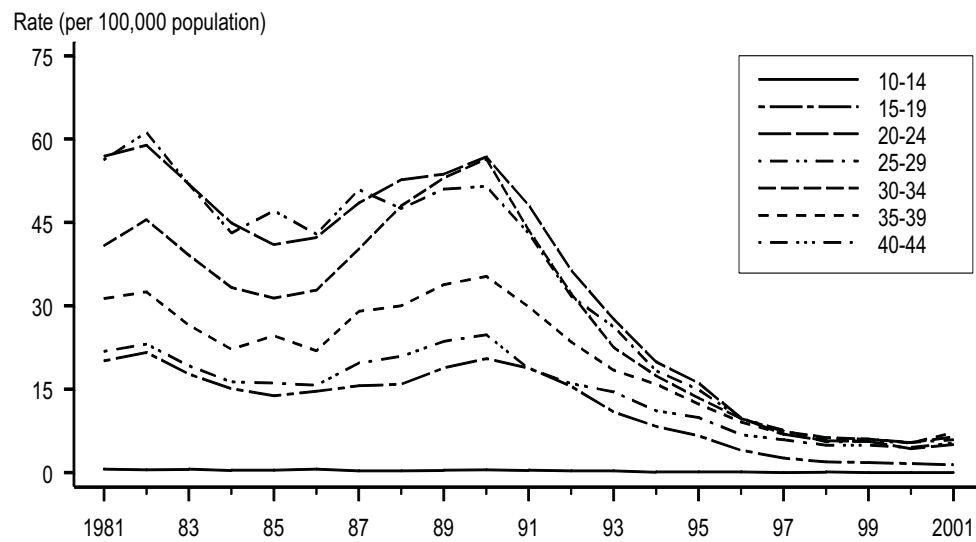
**Figure Q. Gonorrhea — Age-specific rates among men 10-44 years of age: United States, 1981–2001**



**Figure R. Primary and secondary syphilis — Age-specific rates among women 10-44 years of age: United States, 1981–2001**



**Figure S. Primary and secondary syphilis — Age-specific rates among men 10-44 years of age: United States, 1981–2001**





# STDs in Racial and Ethnic Minorities

## Public Health Impact

Surveillance data show higher reported rates of STDs among some minority racial or ethnic groups when compared with rates among whites. Race and ethnicity in the United States are risk markers that correlate with other more fundamental determinants of health status such as poverty, access to quality health care, health care seeking behavior, illicit drug use, and living in communities with high prevalence of STDs. Acknowledging the disparity in STD rates by race or ethnicity is one of the first steps in empowering affected communities to organize and focus on this problem.

Surveillance data are based on cases of STDs reported to state and local health departments (see **Appendix**). In many areas, reporting from public sources, for example STD clinics, is more complete than reporting from private sources. Since minority populations may utilize public clinics more than whites, differences in rates between minorities and whites may be increased by this reporting bias.

## Observations

- Although chlamydia is a widely distributed STD among all racial and ethnic groups, trends in positivity in women screened in HHS Region X (Alaska, Idaho, Oregon, and Washington) show consistently higher chlamydia positivity among minorities (Figure T).
- In 2001, chlamydia positivity among sexually active 15- to 30-year-old women screened at clinics of the Indian Health Service (IHS) in four IHS areas ranged from 3.1% to 10.0% (Figure U).
- In 2001, 75% of the total number of cases of gonorrhea reported to CDC occurred among African-Americans (Table 22A). The reported rate of gonorrhea among African-Americans in 2001 was 782.3 cases per 100,000 population (Table 22B). Among Hispanics, the 2001 reported gonorrhea rate was 74.2 cases per 100,000 population and among American Indian/Alaska Natives the rate was 114.4 cases per 100,000 population. These rates are 27, 2.5 and 3.9 times higher respectively than the rate reported among non-Hispanic whites in 2001 of 29.4 cases per 100,000 population (Figure 13, Table 22B).
- Gonorrhea rates in 2001 were highest for African-Americans aged 15- to 24-years among all racial, ethnic, and age categories. In 2001, African-American women aged 15- to 19-years had a gonorrhea rate of 3,495.2 cases per 100,000 females. This rate is 18 times greater than the 2001 rate among non-Hispanic white females of similar age (193.2). African-American men in the 15- to 19-year-old age category had a 2001 gonorrhea rate of 1,794.1 cases per 100,000 males, which was 46 times higher than the rate among 15- to 19-year-old white males of 39.0 (Table 22B). Among 20- to 24-year-olds in 2001,

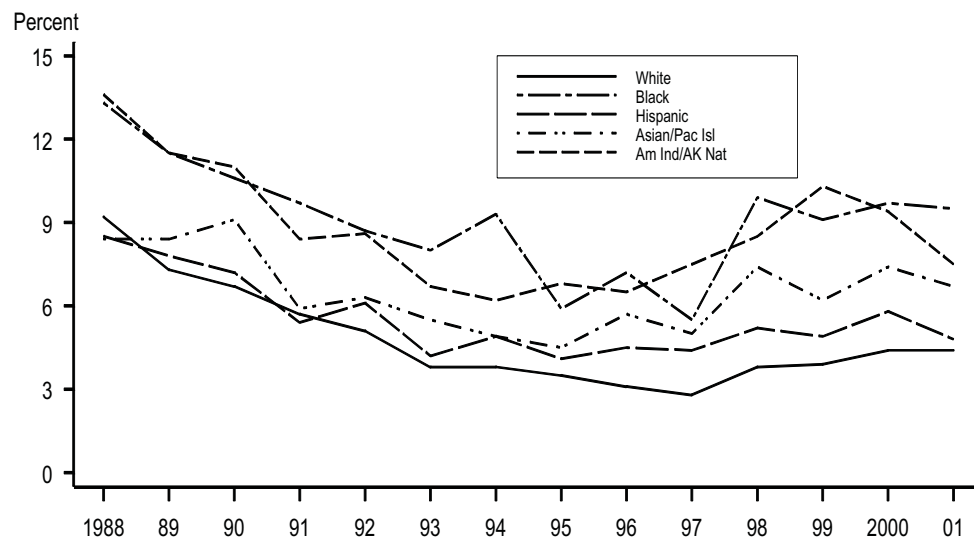
the gonorrhea rate among African-Americans was 24 times greater than that among non-Hispanic whites (3,387.4 and 143.1 cases per 100,000 population respectively) (Table 22B).

- Although gonorrhea rates declined for most age and race/ethnic groups during the 1980s, this was not the case for African-American adolescents. African-American females aged 15 to 19 did not show a decline in rates until 1991 (Figures V and W). Declines among African-American males aged 15- to 19-years did not begin until 1992 (Figure W). From 2000 to 2001 gonorrhea rates among African-Americans declined slightly by 0.7% (788.2 and 782.3 cases per 100,000 population respectively). In 2001, rates decreased among Asian/Pacific Islanders by 4.0%. During the same period, gonorrhea rates increased by 6.9% among Hispanics and by 5.2% among American Indian/Alaska Natives (Table 22B).
- The syphilis epidemic in the late 1980s occurred primarily among heterosexual, minority populations.<sup>1</sup> From 1990 to 1996, rates of primary and secondary (P&S) syphilis declined among all racial and ethnic groups (Figure 26 and Table 35B). From 1997 to 2000, rates of P&S syphilis were fairly stable in all racial and ethnic groups except African-Americans who experienced steadily declining rates. In 2001, although rates for African-Americans continued to decline, rates for all other racial and ethnic groups increased primarily due to increases among men. Rates for African-Americans and Hispanics continue to be higher than for non-Hispanic whites. In 2001, 62.5% of all cases of P&S syphilis reported to CDC occurred among African-Americans (Table 35A). Although the rate for African-Americans declined from 12.2 to 11.0 cases per 100,000 population between 2000 and 2001, the 2001 rate was 15.7 times greater than the rate of 0.7 per 100,000 population among non-Hispanic whites.
- Between 2000 and 2001, P&S syphilis rates for African-Americans aged 15-19 years declined 20.2%; rates declined 17.9% among African-American females and 25.3% among African-American males in this age group (Figures X and Y, Table 35B). The P&S syphilis rate among young African-American adults aged 20- to 24-years declined 13.7% between 2000 and 2001; rates declined 22.4% among African-American females and 4.5% among African-American males in this age group (Table 35B).
- The 2001 rate of P&S syphilis among Hispanics was 2.1 cases per 100,000 population, which is 3 times greater than the rate among non-Hispanic whites (Table 35B).
- In 2001, the rate of congenital syphilis (based on the mother's race/ethnicity) was 37.8 cases per 100,000 live births among African-Americans and 20.1 cases per 100,000 live births among Hispanics. These rates are 21 and 11 times greater than the 2001 rate of 1.8 cases per 100,000 live births among non-Hispanic whites, respectively (Figure Z, Table 45). Compared with 2000, the 2001 rate of congenital syphilis decreased by 28.4% among African-Americans and 8.6% among Hispanics.

---

<sup>1</sup> Nakashima AK, Rolfs RT, Flock ML, Kilmarx P, Greenspan JR. Epidemiology of syphilis in the United States, 1941 through 1993. *Sex Transm Dis* 1996;23:16-23.

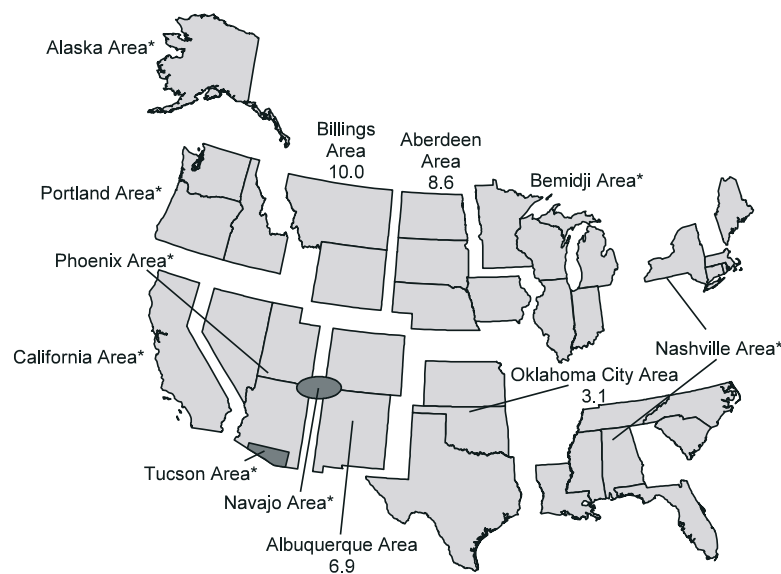
**Figure T. Chlamydia — Positivity among women tested in family planning clinics by race and ethnicity: Region X, 1988–2001**



Note: Women who met screening criteria were tested. Trends not adjusted for changes in laboratory test method and associated increases in test sensitivity in 1994, 1999–2001.

SOURCE: Regional Infertility Prevention Program: Region X Chlamydia Project (Alaska, Idaho, Oregon and Washington)

**Figure U. Chlamydia — Positivity among 15-30 year old women tested in Indian Health Service Clinics by IHS areas, 2001**

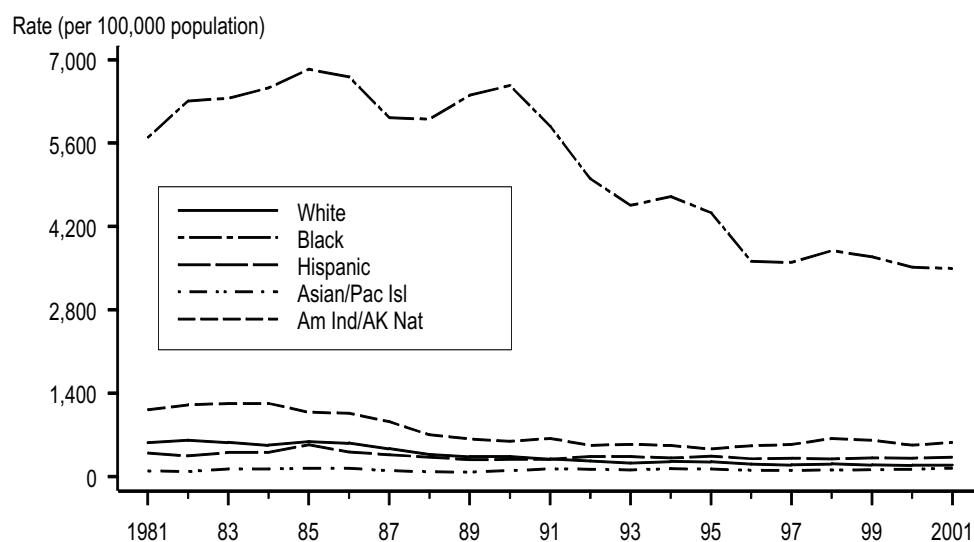


\*IHS areas not reporting chlamydia positivity data during 2001. See Appendix for definitions of IHS areas.

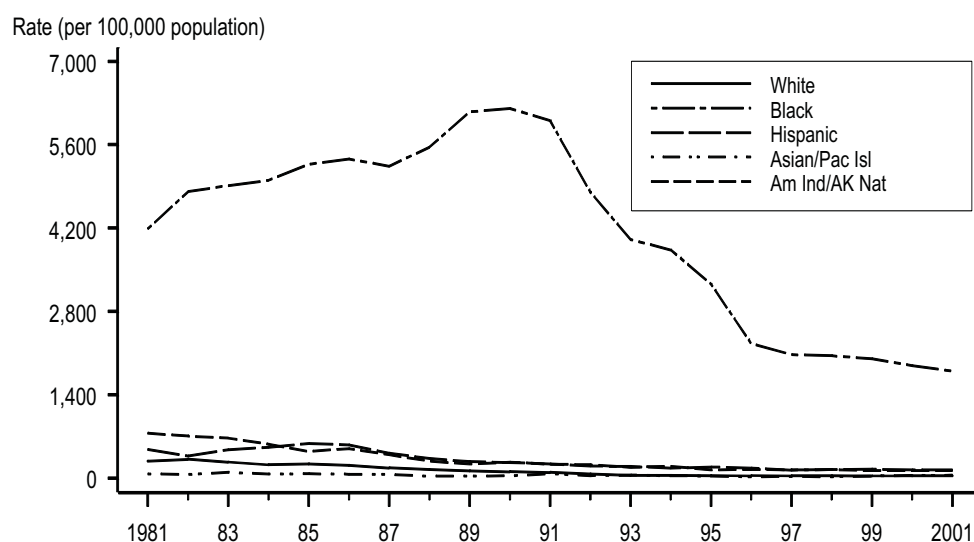
Note: Albuquerque Area - chlamydia positivity data reported for January–October only.

SOURCE: Indian Health Service

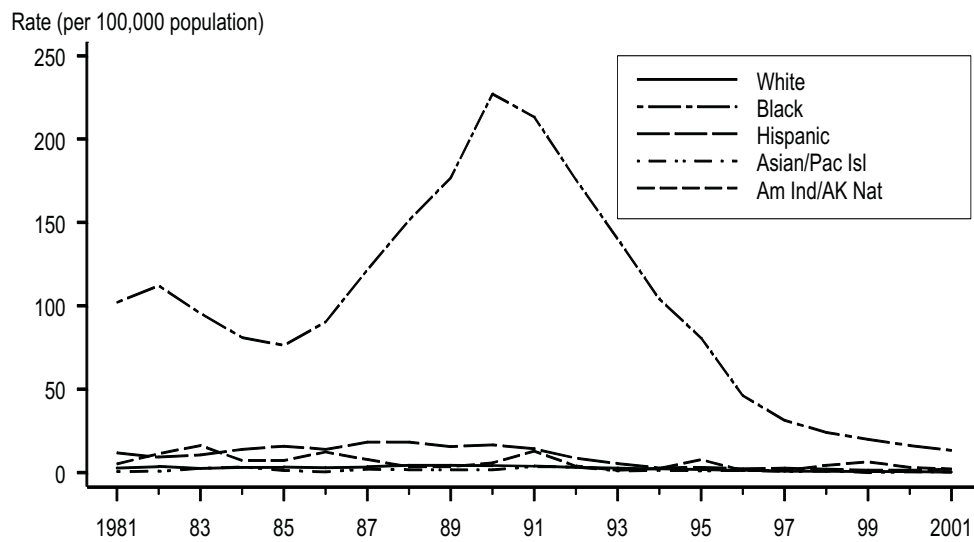
**Figure V. Gonorrhea — Reported rates for 15-19 year old females by race and ethnicity: United States, 1981–2001**



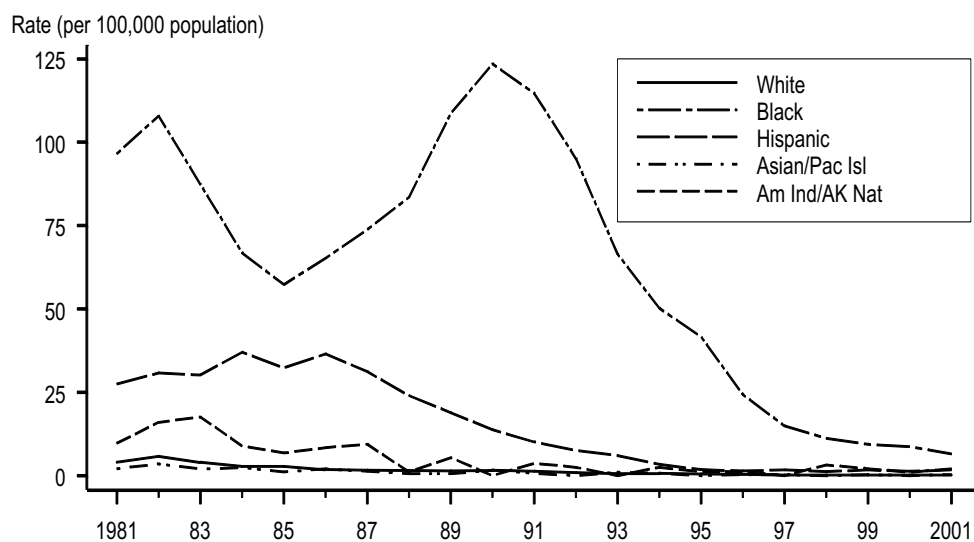
**Figure W. Gonorrhea — Reported rates for 15-19 year old males by race and ethnicity: United States, 1981–2001**



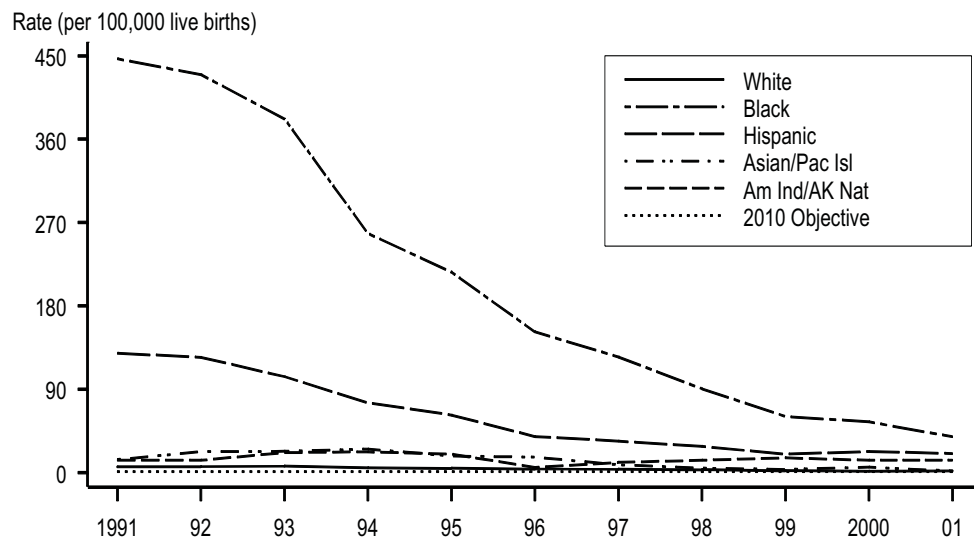
**Figure X. Primary and secondary syphilis — Reported rates for 15-19 year old females by race and ethnicity: United States, 1981–2001**



**Figure Y. Primary and secondary syphilis — Reported rates for 15-19 year old males by race and ethnicity: United States, 1981–2001**



**Figure Z. Congenital syphilis — Rates for infants <1 year of age by mother's race and ethnicity: United States, 1991–2001 and the Healthy People year 2010 objective**



Note: Less than 5% of cases had missing race/ethnicity information and were excluded.

# STDs Among Men Who Have Sex with Men

## Public Health Impact

In the early 1980s, rates of reportable STDs among men who have sex with men (MSM) declined as they did for the rest of the U.S. population. Data from syphilis surveillance, the Gonococcal Isolate Surveillance Project (GISP), and several U.S. cities indicate that since 1993, an increasing number of MSM are acquiring STDs.<sup>1,2,3,4</sup>

Increases in STDs among MSM are consistent with behavioral data suggesting that an increasing number of MSM are participating in sexual behavior that places them at risk for STDs and HIV infection.<sup>5</sup> Several factors may have contributed to this change, including the availability of highly active antiretroviral therapy (HAART).<sup>6</sup> Because STDs, and the behaviors associated with them, increase the likelihood of acquiring and transmitting HIV infection,<sup>7</sup> the rise in STDs among MSM may signal an increase in the incidence of HIV infection among MSM.

## Observations

- National STD surveillance data reported to CDC does not include information regarding sexual behaviors, and, therefore, overall STD trends among MSM in the U.S. are not available. Data from special projects and analyses are presented to provide information regarding STDs among MSM.

## Monitoring Trends in Prevalence of STDs, Tuberculosis, and HIV Risk Behaviors Among Men Who Have Sex with Men (MSM Prevalence Monitoring Project)

- In 2001, seven U.S. cities (Chicago, Denver, the District of Columbia, Houston, Long Beach, Philadelphia, and Seattle) participating in the MSM Prevalence Monitoring Project submitted gonorrhea, chlamydia, syphilis, and HIV data from MSM attending STD clinics to CDC. The MSM Prevalence Monitoring Project includes data collected during routine care and reflects testing practices at participating clinics.
- Overall, 77% (range 22-100% by clinic) of MSM were tested for urethral gonorrhea, 43% (range 28-73%) for rectal gonorrhea, 64% (range 48-80%) for pharyngeal gonorrhea, and 72% (range 0-98%) for urethral chlamydia. Median STD test positivity by clinic among MSM was the following: urethral gonorrhea, 12% (range 10-31%); rectal gonorrhea, 6% (range 3-8%); pharyngeal gonorrhea, 3% (range 1-8%); and urethral chlamydia, 6% (range 5-8%). STD positivity varied by race and ethnicity, but tended to be highest among African-American MSM (Figure AA).
- Among MSM who had not previously tested HIV-positive, 46% (range 0-63%) were tested for HIV. Median HIV test positivity by clinic for African-Americans

was 8% (range 0-18%); Hispanics, 5% (range 0-12%); and whites, 2% (range 0-5%) (Figure AA).

- Overall HIV prevalence (including those previously testing HIV-positive) was 21% for African-Americans (range 10%-29%), 10% (range 3-18%) for Hispanics, and 8% (range 3-22%) for whites.
- Overall, 82% (range 71-91%) of MSM had a nontreponemal serologic test for syphilis (STS) performed. Of STS performed, 4% (range 0-11%) were reactive.
- Gonorrhea positivity was higher for HIV-positive than HIV-negative MSM or MSM of unknown status; urethral gonorrhea was 19% and 11%; rectal gonorrhea was 8% and 5%; and pharyngeal gonorrhea was 5% and 2%, respectively. Urethral chlamydia positivity was 5% among HIV-positive and 6% among HIV-negative MSM or MSM of unknown status (Figure BB).

### Nationally Reported Syphilis Surveillance Data

- Primary and secondary (P&S) syphilis increased slightly in the U.S. in 2001, and this increase occurred only among men. Trends in syphilis male-to-female rate ratios, which may reflect trends among MSM, have been increasing in the U.S. during recent years (Figure 27). The increase in these ratios has been particularly marked in cities with outbreaks of syphilis among MSM.
- In 2001, the reported rate of P&S syphilis among men (3.0 cases per 100,000 males) was 2.1 times greater than the rate among women (1.4 cases per 100,000 females). The overall male-to-female rate ratio has risen steadily since 1996 when it was 1.2. An increase in the male-to-female rate ratio occurred in all racial/ethnic groups between 2000 and 2001. Additional information on syphilis can be found in the **Syphilis** section.

### Gonococcal Isolate Surveillance Project (GISP)

- GISP reports the percentage of *Neisseria gonorrhoeae* isolates obtained from MSM.<sup>8</sup> Overall, the proportion of isolates coming from MSM increased from 4% in 1988 to 17% in 2001 in GISP clinics, with most of the increase occurring after 1993 (Figure CC). The number of GISP clinics having greater than 5% of GISP isolates from MSM rose from 7 clinics in 1990 to 16 clinics in 2001. Among the 16 GISP clinics with greater than 5% of isolates coming from MSM in 2001, the percentage of patients who were MSM ranged from 6% to 66%, with a median of 20% (Figure DD). Additional information on GISP may be found in the **Gonorrhea** section.

---

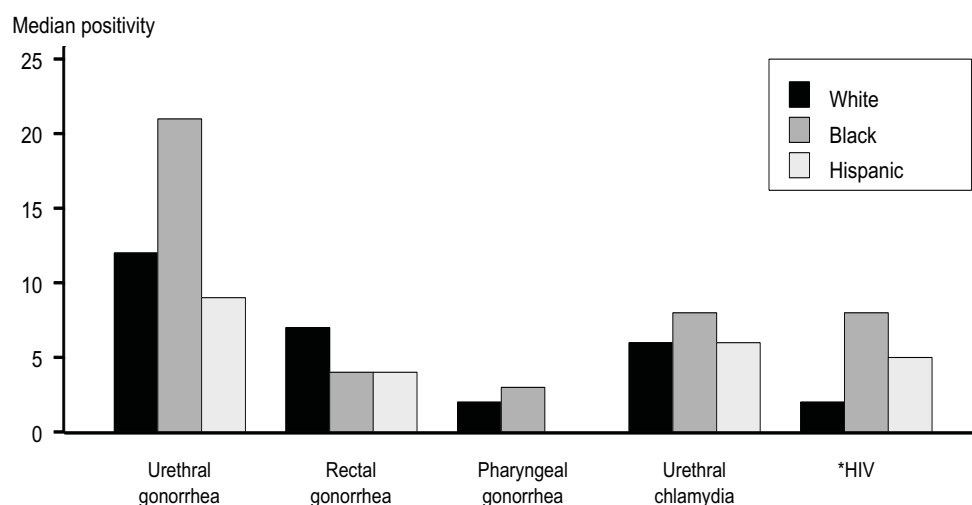
<sup>1</sup> Centers for Disease Control and Prevention. Resurgent bacterial sexually transmitted disease among men who have sex with men- King County, Washington, 1997-1999. *MMWR* 1999;48:773-7.

<sup>2</sup> Centers for Disease Control and Prevention. Outbreak of syphilis among men who have sex with men – Southern California, 2000. *MMWR* 2001;50:117-20.

<sup>3</sup> Centers for Disease Control and Prevention. Gonorrhea among men who have sex with men – Selected sexually transmitted disease clinics, 1993-1996. *MMWR* 1997;46:889-92.

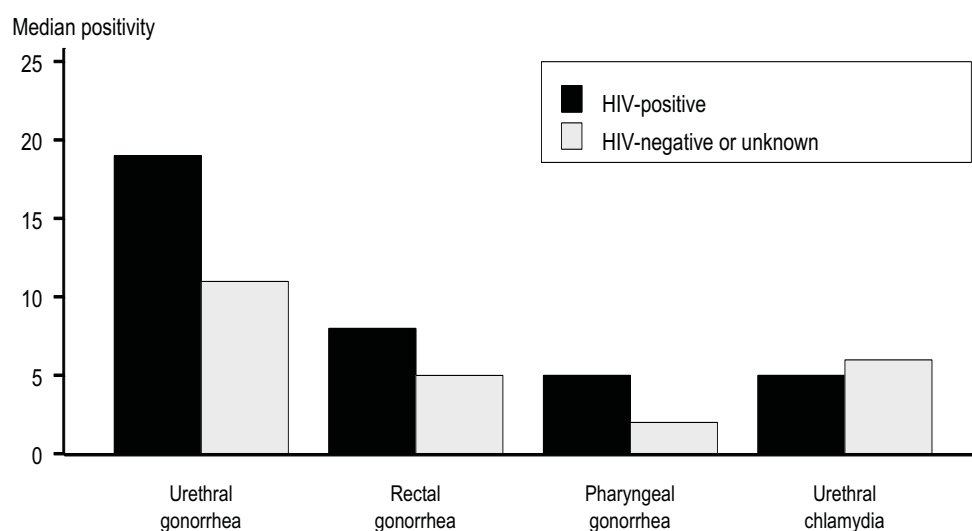
- <sup>4</sup> Fox KK, del Rio C, Holmes K, et. al. Gonorrhea in the HIV era: A reversal in trends among men who have sex with men. *Am J Public Health*. 2001;91:959-964.
- <sup>5</sup> Stall R, Hays R, Waldo C, Ekstrand M, McFarland W. The gay '90s: a review of research in the 1990s on sexual behavior and HIV risk among men who have sex with men. *AIDS* 2000;14:S1-S14.
- <sup>6</sup> Scheer S, Chu PL, Klausner JD, Katz MH, Schwarcz SK. Effect of highly active antiretroviral therapy on diagnoses of sexually transmitted diseases in people with AIDS. *Lancet* 2001;357:432-5.
- <sup>7</sup> Fleming DT, Wasserheit JN. From epidemiologic synergy to public health policy and practice: the contribution of other sexually transmitted diseases to sexual transmission of HIV infection. *Sex Transm Infect* 1999;48:773-7.
- <sup>8</sup> Centers for Disease Control and Prevention. *Sexually Transmitted Disease Surveillance 2001 Supplement: Gonococcal Isolate Surveillance Project (GISP) Annual Report 2001*. Atlanta, GA: U.S. Department of Health and Human Services (in press).

**Figure AA. MSM Prevalence Monitoring Project — Median test positivity by clinic for gonorrhea, chlamydia, and HIV among MSM attending STD clinics, by race/ethnicity, 2001**

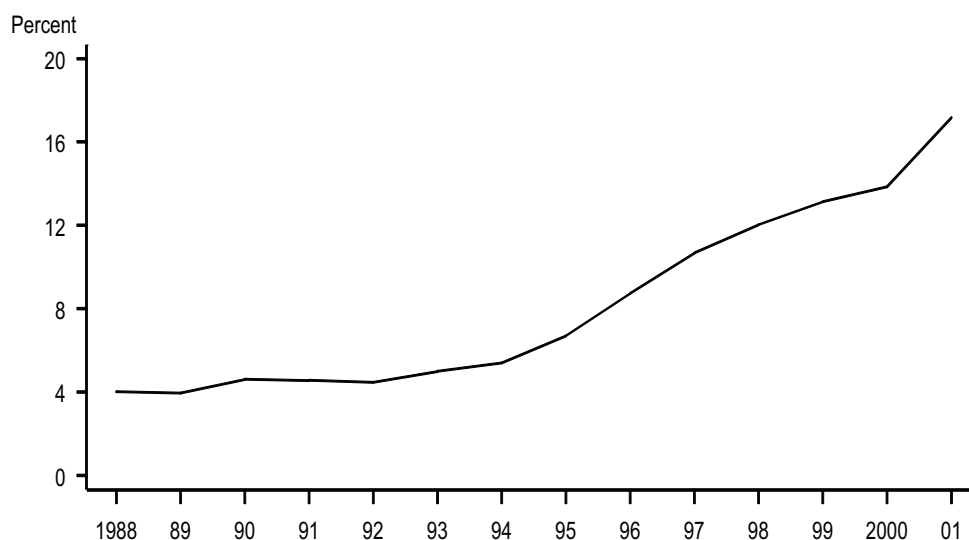


\*Excludes persons known to be HIV-positive.

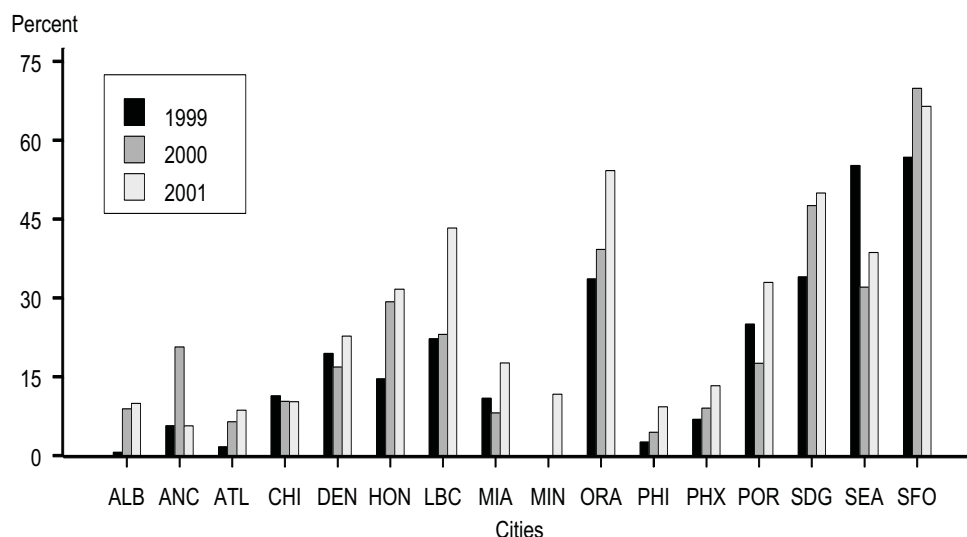
**Figure BB. MSM Prevalence Monitoring Project — Median test positivity by clinic for gonorrhea and chlamydia among MSM attending STD clinics, by HIV status, 2001**



**Figure CC. Gonococcal Isolate Surveillance Project (GISP) — Percent of gonorrhea cases that occurred among MSM, 1988-2001**



**Figure DD. Gonococcal Isolate Surveillance Project (GISP) — Percent of *Neisseria gonorrhoeae* isolates obtained from MSM attending STD clinics in 16 cities, 1999, 2000, and 2001**



Note: In 2001, these 16 clinics reported 95.2% (853/896) of GISP gonorrhea cases among men who have sex with men (MSM). Clinics include: ALB=Albuquerque, NM; ANC=Anchorage, AK; ATL=Atlanta, GA; CHI=Chicago, IL; DEN=Denver, CO; HON=Honolulu, HI; LBC=Long Beach, CA; MIA=Miami, FL; MIN=Minneapolis, MN; ORA=Orange County, CA; PHI=Philadelphia, PA; PHX=Phoenix, AZ; POR=Portland, OR; SDG=San Diego, CA; SEA=Seattle, WA; and SFO=San Francisco, CA.



# STDs in Persons Entering Corrections Facilities

## Public Health Impact

Multiple studies and surveillance projects have demonstrated a high prevalence of STDs in persons entering jails and juvenile detention facilities.<sup>1,2,3,4</sup> Screening for chlamydia, gonorrhea, and syphilis at intake offers an opportunity to identify infections, prevent complications, and reduce transmission in the community. In cities where routine syphilis screening in jails occurs, a substantial percentage of all reported cases is identified in jails.<sup>4</sup> Collecting positivity data and analyzing trends in STD prevalence in this population can provide one method for monitoring trends in STD prevalence in the community.<sup>4</sup>

## Observations

- In 2001, 10 states reported chlamydia, gonorrhea, or syphilis data to CDC as part of the Jail STD Prevalence Monitoring Project. Five states reported syphilis data as part of the Syphilis Elimination Initiative. Four states reported chlamydia and gonorrhea data as part of the Adolescent Women Reproductive Health Monitoring Project. Twenty-two states reported chlamydia and gonorrhea data (at least 100 test results) from corrections facilities as part of the Regional Infertility Prevention Program, and three additional states reported data in response to CDC's request for data.
- The maps shown in this section represent approximately 250,000 syphilis tests among men and 35,000 among women; 62,000 chlamydia tests among men and 31,000 among women; and 30,000 gonorrhea tests among men and 22,000 among women.
- The median percentage of reactive syphilis tests by facility was 8.7% (range 2.1% to 22.2%) for women entering 16 adult corrections facilities and 0.8% (range 0.4% to 1.6%) for adolescent women entering four juvenile detention centers (Figure EE); it was 2.7% (range 0.3% to 10.7%) among men at 18 adult corrections facilities and 0.1% (range 0.0% to 0.3%) among men at three juvenile facilities (Figure FF). The percentage of reactive syphilis tests representing cases of syphilis varied from site to site.
- Chlamydia positivity was higher in adolescent women screened in juvenile facilities than in adult facilities. Among adolescent women entering juvenile detention facilities, the median facility positivity for chlamydia was 14.8% (range 4.0% to 25.8%); positivity was greater than 10% in 19 of 24 facilities (79%) reporting data (Figure GG). Among adult women entering 22 corrections facilities, the median positivity for chlamydia was 4.5% (range 0.5% to 11.0%).
- The median chlamydia positivity among adolescent men entering 33 juvenile facilities was 5.3% (range 1.6% to 11.5%) (Figure HH). Among adult men

entering 13 corrections facilities, the median positivity was 6.8% (range 1.5% to 12.0%).

- The median positivity for gonorrhea among women entering 20 juvenile facilities was 5.6% (range 0.0% to 13.6%); positivity was greater than 4% in 13 of 20 juvenile facilities (65%) (Figure II). Among adult women entering 14 corrections facilities, the median positivity for gonorrhea was 2.5% (range 0.5% to 5.8%).
- The median positivity for gonorrhea among adolescent men entering 20 juvenile facilities was 1.2% (range 0.5% to 4.6%) (Figure JJ). Among adult men entering nine facilities, the median positivity was 2.2% (range 0.5% to 12.6%).

---

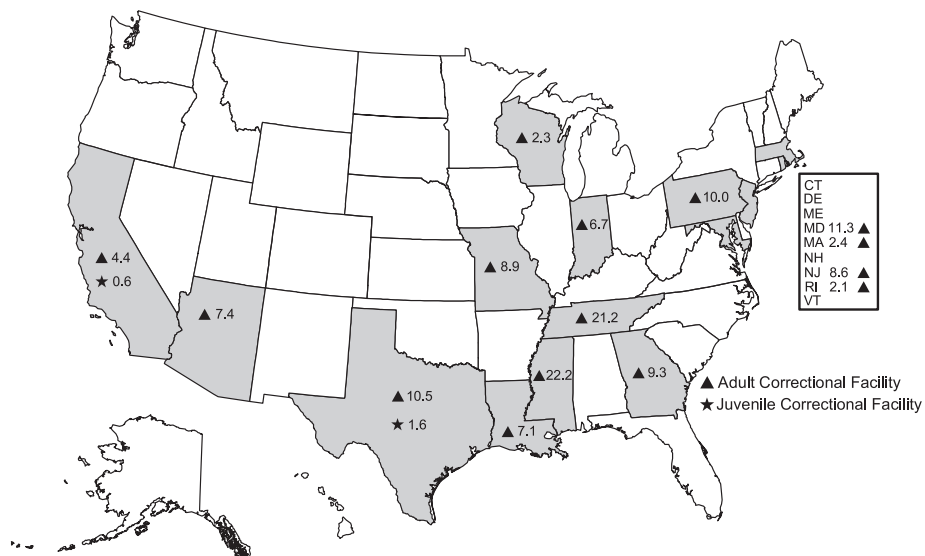
<sup>1</sup> Heimberger TS, Chang HG, Birkhead GS, DiFerdinando GD, Greenberg AJ, Gunn R, Morse DL. High prevalence of syphilis detected through a jail screening program. A potential public health measure to address the syphilis epidemic. *Arch Intern Med* 1993;153:1799-1804.

<sup>2</sup> CDC. Syphilis screening among women arrestees at the Cook County Jail – Chicago, 1996. *MMWR* 1998;47:432-3.

<sup>3</sup> Mertz KJ, Schwebke JR, Gaydos CA, Beideinger HA, Tulloch SD, Levine WC. Screening women in jails for chlamydial and gonococcal infection using urine tests: Feasibility, acceptability, prevalence and treatment rates. *Sex Transm Dis* 2002;29:271-276.

<sup>4</sup> Kahn RH, Scholl DT, Shane SM, Lemoine AL, Farley TA. Screening for syphilis in arrestees: Usefulness for community-wide syphilis surveillance and control. *Sex Transm Dis* 2002;29:150-156.

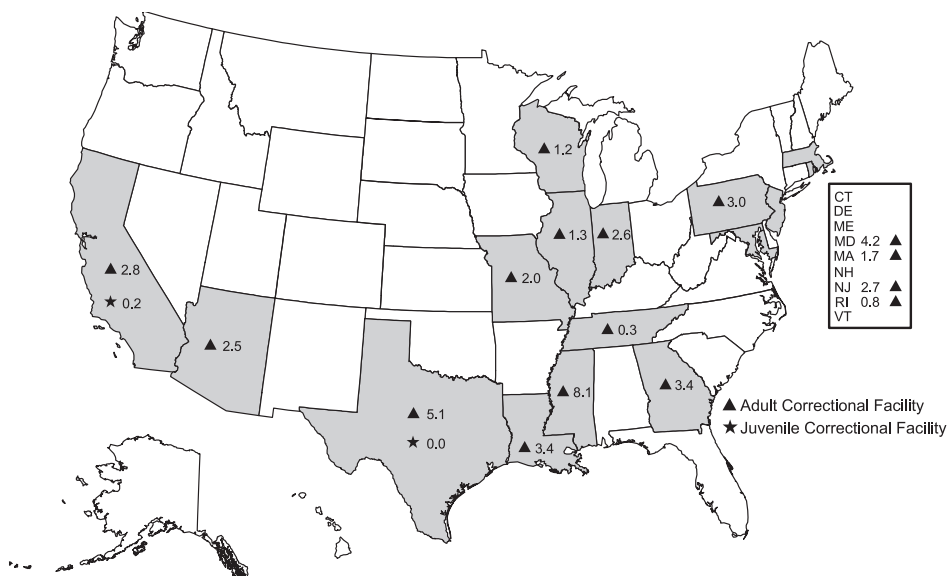
**Figure EE. Syphilis serologic tests — Percent seroreactivity in women entering juvenile and adult corrections facilities, 2001**



Note: The median positivity is presented from facilities reporting >100 test results. Texas submitted data from more than one adult corrections facility. California submitted data from more than one juvenile corrections facility.

SOURCE: Jail STD Prevalence Monitoring Project; Local and State STD Control Programs; Centers for Disease Control and Prevention

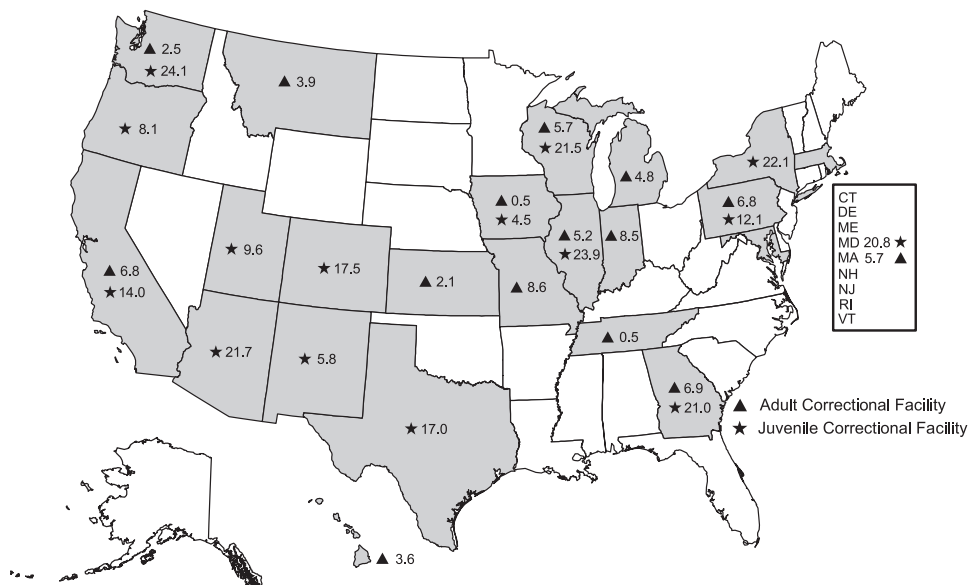
**Figure FF. Syphilis serologic tests — Percent seroreactivity in men entering juvenile and adult corrections facilities, 2001**



Note: The median positivity is presented from facilities reporting >100 test results. Mississippi and Texas submitted data from more than one adult corrections facility. California submitted data from more than one juvenile corrections facility.

SOURCE: Jail STD Prevalence Monitoring Project; Local and State STD Control Programs; Centers for Disease Control and Prevention

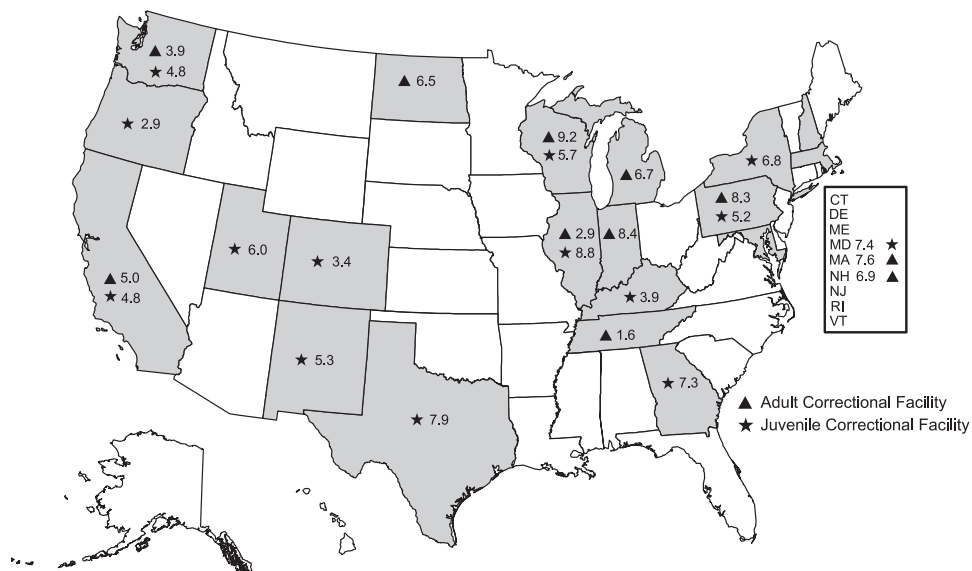
**Figure GG. Chlamydia — Positivity in women entering juvenile and adult corrections facilities, 2001**



Note: The median positivity is presented from facilities reporting >100 test results. Hawaii, Kansas, Pennsylvania, Massachusetts and Wisconsin submitted data from more than one adult corrections facility. California, Texas, Utah and Wisconsin submitted data from more than one juvenile corrections facility.

SOURCE: Jail STD Prevalence Monitoring Project; Adolescent Women Reproductive Health Monitoring Project; Regional Infertility Prevention Program; Local and State STD Control Programs; Centers for Disease Control and Prevention

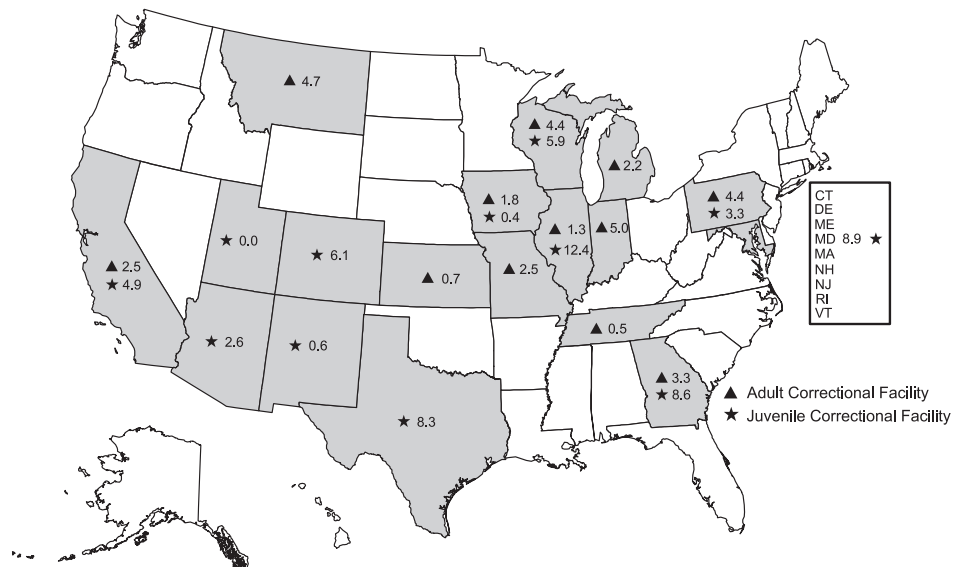
**Figure HH. Chlamydia — Positivity in men entering juvenile and adult corrections facilities, 2001**



Note: The median positivity is presented from facilities reporting >100 test results. Massachusetts, Tennessee and Wisconsin submitted data from more than one adult corrections facility. California, Illinois, Maryland, Oregon, Texas, Utah, Washington and Wisconsin submitted data from more than one juvenile corrections facility.

SOURCE: Jail STD Prevalence Monitoring Project; Adolescent Women Reproductive Health Monitoring Project; Regional Infertility Prevention Program; Local and State STD Control Programs; Centers for Disease Control and Prevention

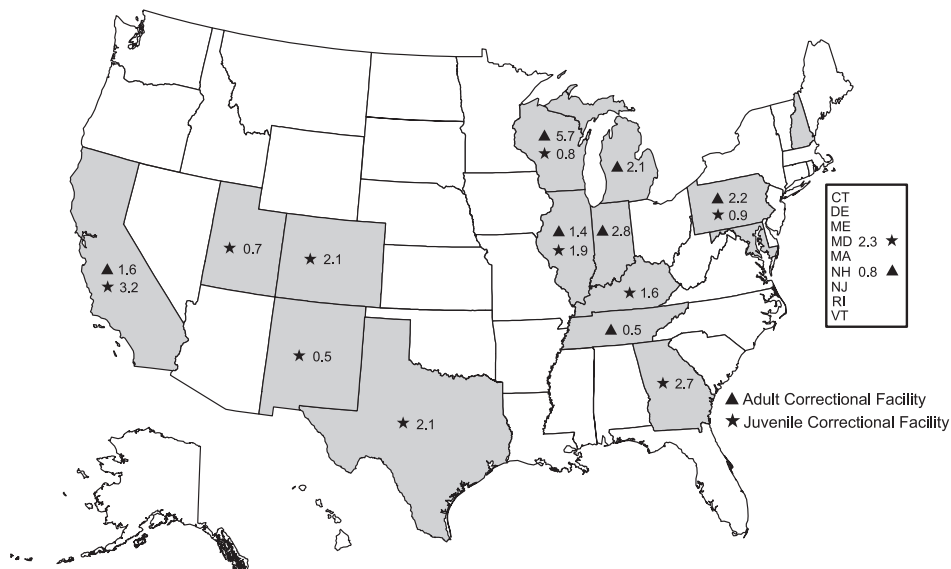
**Figure II. Gonorrhea — Positivity in women entering juvenile and adult corrections facilities, 2001**



Note: The median positivity is presented from facilities reporting >100 test results. Wisconsin submitted data from more than one adult corrections facility. California, Texas and Wisconsin submitted data from more than one juvenile corrections facility.

SOURCE: Jail STD Prevalence Monitoring Project; Adolescent Women Reproductive Health Monitoring Project; Regional Infertility Prevention Program; Local and State STD Control Programs; Centers for Disease Control and Prevention

**Figure JJ. Gonorrhea — Positivity in men entering juvenile and adult corrections facilities, 2001**



Note: The median positivity is presented from facilities reporting >100 test results. Wisconsin submitted data from more than one adult corrections facility. California, Colorado, Illinois, Kentucky, Maryland and Wisconsin submitted data from more than one juvenile corrections facility.

SOURCE: Jail STD Prevalence Monitoring Project; Adolescent Women Reproductive Health Monitoring Project; Regional Infertility Prevention Program; Local and State STD Control Programs; Centers for Disease Control and Prevention



# STDs in the South

## Public Health Impact

The southern region of the United States consists of the District of Columbia and 16 states: Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia. This region has consistently had higher reported rates of chlamydia, gonorrhea and primary and secondary (P&S) syphilis than the other regions of the country (Northeast, Midwest, and West). The reasons for these higher rates in the South are not well understood, but may include differences in the racial and ethnic distribution of the population, poverty, and availability and quality of health care services. Regional differences in STD rates are particularly disturbing in light of the fact that STDs can increase the risk of HIV transmission. The high HIV prevalence among childbearing women living in the South is consistent with the high rates of these other STDs in the region.<sup>1</sup>

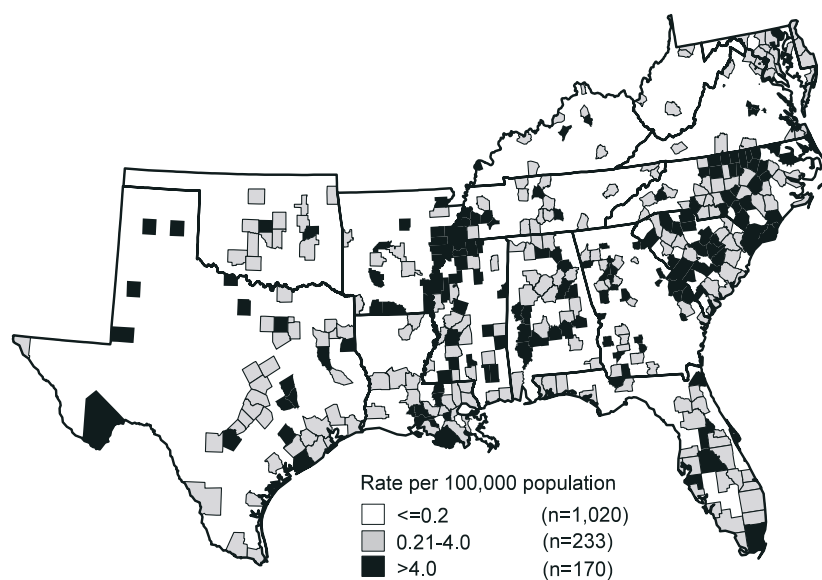
## Observations

- The South has consistently had higher rates of gonorrhea and P&S syphilis compared with other regions throughout the 1980s and 1990s (Figures 11 and 24, Tables 14 and 27). From 1997 through 2001, the South also had a higher reported rate of chlamydia than the other regions of the country (Figure 4, Table 4).
- In 2001, six of the 10 states with the highest chlamydia rates were in the South (Figure 3, Table 3). Similarly, seven of the 10 states with the highest rates of gonorrhea were located in the South (Figure 10, Table 13). All 16 of the southern states had 2001 reported rates of P&S syphilis that were greater than the Healthy People Year 2010 (HP2010) objective of 0.2 case per 100,000 population (Figure 22, Table 25).
- In 2001, 403 (66%) of 606 counties with P&S syphilis rates above the HP2010 objective were located in the South (Figures 23 and KK).
- County-specific rates of chlamydia and gonorrhea in 2001 were calculated for those southern states submitting county level data (Figures LL and MM). These county level data were reported through the National Electronic Telecommunications System for Surveillance (NETSS), *and are provisional for all states shown except Alabama, Arkansas, Delaware, Florida, Indiana, Kentucky, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia where hardcopy reports have been discontinued based on consistent, high quality, and timely submissions of NETSS data (see Figures A1, A2, and A3 in **Appendix**).*

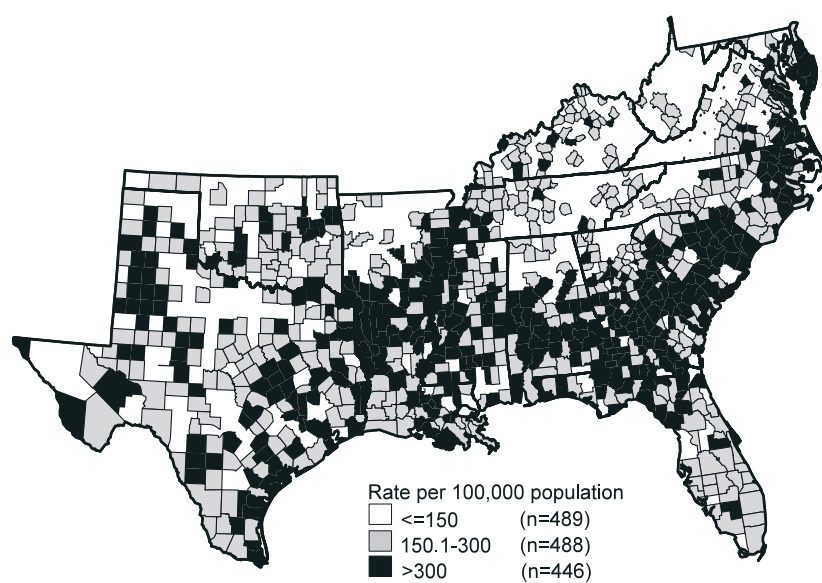
---

<sup>1</sup> Koumans EH, Sternberg M, Gwinn M, Swint E, Zaidi A, St. Louis M. Geographic variation of HIV infection in childbearing women with syphilis in the United States. *AIDS* 2000;14:279-87.

**Figure KK. South — Primary and secondary syphilis case rates by county, 2001**

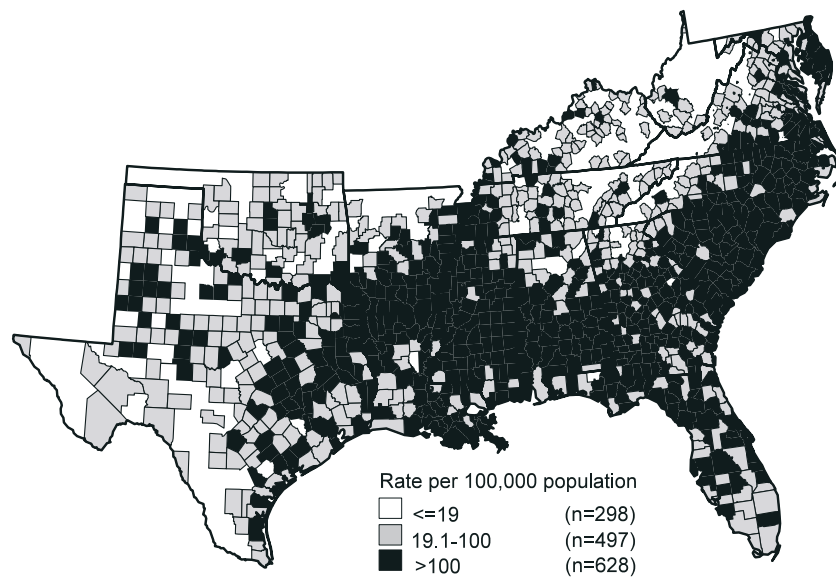


**Figure LL. South — Chlamydia case rates by county, 2001**



SOURCE: National Electronic Telecommunications System for Surveillance (NETSS) data

**Figure MM. South — Gonorrhea case rates by county, 2001**



SOURCE: National Electronic Telecommunications System for Surveillance (NETSS) data



**Table 1. Cases of sexually transmitted diseases reported by state health departments and rates per 100,000 civilian population: United States, 1941–2001**

| Year <sup>1</sup> | Syphilis   |       |                       |       |              |       |                      |       |                   |       | Chlamydia* |       | Gonorrhea |       | Chancroid |       | Granuloma Inguinale |       | Lympho-granuloma Venereum |     |
|-------------------|------------|-------|-----------------------|-------|--------------|-------|----------------------|-------|-------------------|-------|------------|-------|-----------|-------|-----------|-------|---------------------|-------|---------------------------|-----|
|                   | All Stages |       | Primary and Secondary |       | Early Latent |       | Late and Late Latent |       | Congenital        |       |            |       |           |       |           |       |                     |       |                           |     |
|                   |            |       |                       |       |              |       |                      |       |                   |       |            |       |           |       |           |       |                     |       |                           |     |
| Cases             | Rate       | Cases | Rate                  | Cases | Rate         | Cases | Rate                 | Cases | Rate <sup>2</sup> | Cases | Rate       | Cases | Rate      | Cases | Rate      | Cases | Rate                | Cases | Rate                      |     |
| 1941              | 485,560    | 368.2 | 68,231                | 51.7  | 109,018      | 82.6  | 202,984              | 153.9 | 17,600            | 13.4  | NR         | .     | 193,468   | 146.7 | 3,384     | 2.5   | 639                 | 0.4   | 1,381                     | 1.0 |
| 1942              | 479,601    | 363.4 | 75,312                | 57.0  | 116,245      | 88.0  | 202,064              | 153.1 | 16,918            | 12.8  | NR         | .     | 212,403   | 160.9 | 5,477     | 4.1   | 1,278               | 0.9   | 1,888                     | 1.4 |
| 1943              | 575,593    | 447.0 | 82,204                | 63.8  | 149,390      | 116.0 | 251,958              | 195.7 | 16,164            | 12.6  | NR         | .     | 275,070   | 213.6 | 8,354     | 6.4   | 1,748               | 1.3   | 2,593                     | 2.0 |
| 1944              | 467,755    | 367.9 | 78,443                | 61.6  | 123,038      | 96.7  | 202,848              | 159.6 | 13,578            | 10.7  | NR         | .     | 300,676   | 236.5 | 7,878     | 6.1   | 1,759               | 1.3   | 2,858                     | 2.2 |
| 1945              | 359,114    | 282.3 | 77,007                | 60.5  | 101,719      | 79.9  | 142,187              | 111.8 | 12,339            | 9.7   | NR         | .     | 287,181   | 225.8 | 5,515     | 4.3   | 1,857               | 1.4   | 2,631                     | 2.0 |
| 1946              | 363,647    | 271.7 | 94,957                | 70.9  | 107,924      | 80.6  | 125,248              | 93.6  | 12,106            | 9.0   | NR         | .     | 368,020   | 275.0 | 7,091     | 5.2   | 2,232               | 1.6   | 2,603                     | 1.9 |
| 1947              | 355,592    | 252.3 | 93,545                | 66.4  | 104,124      | 73.9  | 122,089              | 86.6  | 12,200            | 8.7   | NR         | .     | 380,666   | 270.0 | 9,515     | 6.7   | 2,330               | 1.7   | 2,526                     | 1.8 |
| 1948              | 314,313    | 218.2 | 68,174                | 47.3  | 90,598       | 62.9  | 123,312              | 85.6  | 13,931            | 9.7   | NR         | .     | 345,501   | 239.8 | 7,661     | 5.3   | 2,469               | 1.7   | 2,429                     | 1.7 |
| 1949              | 256,463    | 175.3 | 41,942                | 28.7  | 75,045       | 51.3  | 116,397              | 79.5  | 13,952            | 9.5   | NR         | .     | 317,950   | 217.3 | 6,707     | 4.6   | 2,402               | 1.6   | 1,925                     | 1.3 |
| 1950              | 217,558    | 146.0 | 23,939                | 16.7  | 59,256       | 39.7  | 113,569              | 70.2  | 13,377            | 9.0   | NR         | .     | 286,746   | 192.5 | 4,977     | 3.3   | 1,783               | 1.2   | 1,427                     | 1.0 |
| 1951              | 174,924    | 116.1 | 14,485                | 9.6   | 43,316       | 28.7  | 98,311               | 65.2  | 11,094            | 7.4   | NR         | .     | 254,470   | 168.9 | 4,233     | 2.8   | 1,352               | 0.9   | 1,300                     | 0.9 |
| 1952              | 167,762    | 110.2 | 10,449                | 6.9   | 36,454       | 24.0  | 105,238              | 69.1  | 8,553             | 5.6   | NR         | .     | 244,957   | 160.8 | 3,738     | 2.5   | 951                 | 0.6   | 1,200                     | 0.8 |
| 1953              | 148,573    | 95.9  | 8,637                 | 5.6   | 28,295       | 18.3  | 98,870               | 63.8  | 7,675             | 5.0   | NR         | .     | 238,340   | 153.9 | 3,338     | 2.2   | 667                 | 0.4   | 983                       | 0.6 |
| 1954              | 130,687    | 82.9  | 7,147                 | 4.5   | 23,861       | 15.1  | 89,123               | 56.5  | 6,676             | 4.2   | NR         | .     | 242,050   | 153.5 | 3,003     | 1.9   | 618                 | 0.4   | 875                       | 0.6 |
| 1955              | 122,392    | 76.2  | 6,454                 | 4.0   | 20,054       | 12.5  | 86,526               | 53.8  | 5,354             | 3.3   | NR         | .     | 236,197   | 147.0 | 2,649     | 1.7   | 490                 | 0.3   | 762                       | 0.5 |
| 1956              | 130,201    | 78.7  | 6,392                 | 3.9   | 19,783       | 12.0  | 95,097               | 57.5  | 5,491             | 3.3   | NR         | .     | 224,346   | 135.7 | 2,135     | 1.3   | 357                 | 0.2   | 500                       | 0.3 |
| 1957              | 123,758    | 73.5  | 6,576                 | 3.9   | 17,796       | 10.6  | 91,309               | 54.2  | 5,288             | 3.1   | NR         | .     | 214,496   | 127.4 | 1,637     | 1.0   | 348                 | 0.2   | 448                       | 0.3 |
| 1958              | 113,884    | 66.4  | 7,176                 | 4.2   | 16,556       | 9.7   | 83,027               | 48.4  | 4,866             | 2.8   | NR         | .     | 232,386   | 135.6 | 1,595     | 0.9   | 314                 | 0.2   | 434                       | 0.3 |
| 1959              | 120,824    | 69.2  | 9,799                 | 5.6   | 17,025       | 9.8   | 86,740               | 49.7  | 5,130             | 2.9   | NR         | .     | 240,254   | 137.6 | 1,537     | 0.9   | 265                 | 0.2   | 604                       | 0.3 |
| 1960              | 122,538    | 68.8  | 16,145                | 9.1   | 18,017       | 10.1  | 81,798               | 45.9  | 4,416             | 2.5   | NR         | .     | 258,933   | 145.4 | 1,680     | 0.9   | 296                 | 0.2   | 835                       | 0.5 |
| 1961              | 124,658    | 68.8  | 19,851                | 11.0  | 19,486       | 10.8  | 79,304               | 43.8  | 4,163             | 2.3   | NR         | .     | 264,158   | 145.8 | 1,438     | 0.8   | 241                 | 0.1   | 787                       | 0.4 |
| 1962              | 126,245    | 68.7  | 21,067                | 11.5  | 19,585       | 10.7  | 79,533               | 43.3  | 4,070             | 2.2   | NR         | .     | 263,714   | 143.6 | 1,344     | 0.7   | 207                 | 0.1   | 590                       | 0.3 |
| 1963              | 124,137    | 66.6  | 22,251                | 11.9  | 18,235       | 9.8   | 78,076               | 41.9  | 4,031             | 2.2   | NR         | .     | 278,289   | 149.2 | 1,220     | 0.7   | 173                 | 0.1   | 586                       | 0.3 |
| 1964              | 114,325    | 60.4  | 22,969                | 12.1  | 17,781       | 9.4   | 68,629               | 36.3  | 3,516             | 1.9   | NR         | .     | 300,666   | 159.0 | 1,247     | 0.7   | 135                 | 0.1   | 732                       | 0.4 |
| 1965              | 112,842    | 58.9  | 23,338                | 12.2  | 17,458       | 9.1   | 67,317               | 35.1  | 3,564             | 1.9   | NR         | .     | 324,925   | 169.6 | 982       | 0.5   | 155                 | 0.1   | 878                       | 0.5 |
| 1966              | 105,159    | 54.4  | 21,414                | 11.1  | 15,950       | 8.2   | 63,541               | 32.9  | 3,170             | 1.6   | NR         | .     | 351,738   | 181.9 | 838       | 0.4   | 148                 | 0.1   | 308                       | 0.2 |
| 1967              | 102,581    | 52.5  | 21,053                | 10.8  | 15,554       | 8.0   | 61,975               | 31.7  | 2,894             | 1.5   | NR         | .     | 404,836   | 207.3 | 784       | 0.4   | 154                 | 0.1   | 371                       | 0.2 |
| 1968              | 96,271     | 48.8  | 19,019                | 9.6   | 15,150       | 7.7   | 58,564               | 29.7  | 2,381             | 1.2   | NR         | .     | 464,543   | 235.7 | 845       | 0.4   | 156                 | 0.1   | 485                       | 0.2 |
| 1969              | 92,162     | 46.3  | 19,130                | 9.6   | 15,402       | 7.7   | 54,587               | 27.4  | 2,074             | 1.0   | NR         | .     | 534,872   | 268.6 | 1,104     | 0.6   | 154                 | 0.1   | 520                       | 0.3 |
| 1970              | 91,382     | 45.3  | 21,982                | 10.9  | 16,311       | 8.1   | 50,348               | 24.9  | 1,953             | 1.0   | NR         | .     | 600,072   | 297.2 | 1,416     | 0.7   | 124                 | 0.1   | 612                       | 0.3 |
| 1971              | 95,997     | 46.9  | 23,783                | 11.6  | 19,417       | 9.5   | 49,993               | 24.4  | 2,052             | 1.0   | NR         | .     | 670,268   | 327.2 | 1,320     | 0.6   | 89                  | 0.0   | 692                       | 0.3 |
| 1972              | 91,149     | 43.9  | 24,429                | 11.8  | 20,784       | 10.0  | 43,456               | 20.9  | 1,758             | 0.8   | NR         | .     | 767,215   | 369.7 | 1,414     | 0.7   | 81                  | 0.0   | 756                       | 0.4 |
| 1973              | 87,469     | 41.7  | 24,825                | 11.8  | 23,584       | 11.3  | 37,054               | 17.7  | 1,527             | 0.7   | NR         | .     | 842,621   | 402.0 | 1,165     | 0.6   | 62                  | 0.0   | 408                       | 0.2 |
| 1974              | 83,771     | 39.6  | 25,385                | 12.0  | 25,124       | 11.9  | 31,854               | 15.1  | 1,138             | 0.5   | NR         | .     | 906,121   | 428.2 | 945       | 0.4   | 47                  | 0.0   | 394                       | 0.2 |
| 1975              | 80,356     | 37.6  | 25,561                | 12.0  | 26,569       | 12.4  | 27,096               | 12.7  | 916               | 0.4   | NR         | .     | 999,937   | 467.7 | 700       | 0.3   | 60                  | 0.0   | 353                       | 0.2 |
| 1976              | 71,761     | 33.2  | 23,731                | 11.0  | 25,363       | 11.7  | 21,905               | 10.1  | 626               | 0.3   | NR         | .     | 1,001,994 | 464.1 | 628       | 0.3   | 71                  | 0.0   | 365                       | 0.2 |
| 1977              | 64,621     | 29.6  | 20,399                | 9.4   | 21,329       | 9.8   | 22,313               | 10.2  | 463               | 0.2   | NR         | .     | 1,002,219 | 459.5 | 455       | 0.2   | 75                  | 0.0   | 348                       | 0.2 |
| 1978              | 64,875     | 29.4  | 21,656                | 9.8   | 19,628       | 8.9   | 23,038               | 10.4  | 434               | 0.2   | NR         | .     | 1,013,436 | 459.7 | 521       | 0.2   | 72                  | 0.0   | 284                       | 0.1 |
| 1979              | 67,049     | 30.1  | 24,874                | 11.2  | 20,459       | 9.2   | 21,301               | 9.6   | 332               | 0.1   | NR         | .     | 1,004,058 | 450.3 | 840       | 0.4   | 76                  | 0.0   | 250                       | 0.1 |
| 1980              | 68,832     | 30.5  | 27,204                | 12.1  | 20,297       | 9.0   | 20,979               | 9.3   | 277               | 0.1   | NR         | .     | 1,004,029 | 445.1 | 788       | 0.3   | 51                  | 0.0   | 199                       | 0.1 |
| 1981              | 72,799     | 32.0  | 31,266                | 13.7  | 21,033       | 9.2   | 20,168               | 8.9   | 287               | 0.1   | NR         | .     | 990,864   | 435.2 | 850       | 0.4   | 66                  | 0.0   | 263                       | 0.1 |
| 1982              | 75,579     | 32.9  | 33,613                | 14.6  | 21,894       | 9.5   | 19,799               | 8.6   | 259               | 0.1   | NR         | .     | 960,633   | 417.9 | 1,392     | 0.6   | 17                  | 0.0   | 235                       | 0.1 |
| 1983              | 74,637     | 32.1  | 32,698                | 14.1  | 23,738       | 10.2  | 17,896               | 7.7   | 239               | 0.1   | NR         | .     | 900,435   | 387.6 | 847       | 0.4   | 24                  | 0.0   | 335                       | 0.1 |
| 1984              | 69,872     | 29.6  | 28,607                | 12.1  | 23,131       | 9.8   | 17,829               | 7.6   | 305               | 0.1   | 7,594      | 6.5   | 878,556   | 372.5 | 665       | 0.3   | 30                  | 0.0   | 170                       | 0.1 |
| 1985              | 67,563     | 28.4  | 27,131                | 11.4  | 21,689       | 9.1   | 18,414               | 7.7   | 329               | 0.1   | 25,848     | 17.4  | 911,419   | 383.0 | 2,067     | 0.9   | 44                  | 0.0   | 226                       | 0.1 |

**Table 1. Cases of sexually transmitted diseases reported by state health departments and rates per 100,000 civilian population: United States, 1941–2001 (continued)**

| Year <sup>1</sup> | Syphilis   |       |                       |       |              |       |                      |       |                   |       | Chlamydia* |       | Gonorrhea |       | Chancroid |       | Granuloma Inguinale |       | Lympho-granuloma Venereum |     |
|-------------------|------------|-------|-----------------------|-------|--------------|-------|----------------------|-------|-------------------|-------|------------|-------|-----------|-------|-----------|-------|---------------------|-------|---------------------------|-----|
|                   | All Stages |       | Primary and Secondary |       | Early Latent |       | Late and Late Latent |       | Congenital        |       |            |       |           |       |           |       |                     |       |                           |     |
| Cases             | Rate       | Cases | Rate                  | Cases | Rate         | Cases | Rate                 | Cases | Rate <sup>2</sup> | Cases | Rate       | Cases | Rate      | Cases | Rate      | Cases | Rate                | Cases | Rate                      |     |
| 1986              | 67,779     | 28.2  | 27,667                | 11.5  | 21,656       | 9.0   | 18,046               | 7.5   | 410               | 0.2   | 58,001     | 35.2  | 892,229   | 371.5 | 3,045     | 1.3   | 48                  | 0.0   | 307                       | 0.1 |
| 1987              | 87,286     | 36.0  | 35,585                | 14.7  | 28,233       | 11.7  | 22,988               | 9.5   | 480               | 0.2   | 91,913     | 50.8  | 787,532   | 325.0 | 4,986     | 2.1   | 22                  | 0.0   | 302                       | 0.1 |
| 1988              | 104,546    | 42.8  | 40,474                | 16.6  | 35,968       | 14.7  | 27,363               | 11.2  | 741               | 0.3   | 157,854    | 87.1  | 738,160   | 301.9 | 4,891     | 2.0   | 11                  | 0.0   | 194                       | 0.1 |
| 1989              | 115,089    | 46.6  | 45,826                | 18.6  | 45,394       | 18.4  | 22,032               | 8.9   | 1,837             | 0.7   | 200,904    | 102.5 | 733,294   | 297.1 | 4,697     | 1.9   | 7                   | 0.0   | 182                       | 0.1 |
| 1990              | 135,590    | 54.5  | 50,578                | 20.3  | 55,397       | 22.3  | 25,750               | 10.4  | 3,865             | 1.6   | 323,663    | 160.8 | 690,042   | 277.4 | 4,212     | 1.7   | 97                  | 0.0   | 277                       | 0.1 |
| 1991              | 128,719    | 51.1  | 42,950                | 17.0  | 53,855       | 21.4  | 27,490               | 10.9  | 4,424             | 1.8   | 381,228    | 180.3 | 621,918   | 246.7 | 3,476     | 1.4   | 29                  | 0.0   | 471                       | 0.2 |
| 1992              | 114,730    | 45.0  | 34,009                | 13.3  | 49,929       | 19.6  | 26,725               | 10.5  | 4,067             | 1.6   | 409,694    | 183.4 | 502,858   | 197.2 | 1,906     | 0.7   | 6                   | 0.0   | 299                       | 0.1 |
| 1993              | 102,612    | 39.8  | 26,527                | 10.3  | 41,919       | 16.3  | 30,746               | 11.9  | 3,420             | 1.3   | 405,332    | 179.5 | 444,649   | 172.5 | 1,292     | 0.5   | 19                  | 0.0   | 292                       | 0.1 |
| 1994              | 82,713     | 31.8  | 20,641                | 7.9   | 32,017       | 12.3  | 27,603               | 10.6  | 2,452             | 0.9   | 451,785    | 194.5 | 424,657   | 167.7 | 782       | 0.3   | 3                   | 0.0   | 235                       | 0.1 |
| 1995              | 69,356     | 26.4  | 16,543                | 6.3   | 26,657       | 10.1  | 24,296               | 9.2   | 1,860             | 0.7   | 478,577    | 190.4 | 392,651   | 149.4 | 607       | 0.2   | 0                   | 0.0   | 188                       | 0.1 |
| 1996              | 53,238     | 20.1  | 11,405                | 4.3   | 20,187       | 7.6   | 20,366               | 7.7   | 1,280             | 0.5   | 492,631    | 193.7 | 328,169   | 123.8 | 386       | 0.1   | 10                  | 0.0   | 72                        | 0.0 |
| 1997              | 46,712     | 17.5  | 8,556                 | 3.2   | 16,631       | 6.2   | 20,447               | 7.6   | 1,078             | 0.4   | 537,904    | 209.4 | 327,665   | 122.4 | 246       | 0.1   | 8                   | 0.0   | 114                       | 0.0 |
| 1998              | 38,286     | 14.2  | 7,007                 | 2.6   | 12,696       | 4.7   | 17,743               | 6.6   | 840               | 0.3   | 614,250    | 236.7 | 356,492   | 131.9 | 189       | 0.1   | 3                   | 0.0   | 86                        | 0.0 |
| 1999              | 35,379     | 13.0  | 6,617                 | 2.4   | 11,534       | 4.2   | 16,653               | 6.1   | 575               | 0.2   | 662,647    | 253.0 | 360,813   | 132.3 | 142       | 0.1   | 19                  | 0.0   | 63                        | 0.0 |
| 2000              | 31,592     | 11.2  | 5,979                 | 2.1   | 9,465        | 3.4   | 15,594               | 5.5   | 554               | 0.2   | 709,452    | 252.1 | 363,136   | 129.0 | 78        | 0.0   | 4                   | 0.0   | 42                        | 0.0 |
| 2001              | 32,221     | 11.4  | 6,103                 | 2.2   | 8,701        | 3.1   | 16,976               | 6.0   | 441               | 0.2   | 783,242    | 278.3 | 361,705   | 128.5 | 38        | 0.0   | 7                   | 0.0   | 25                        | 0.0 |

\*NR = No report

<sup>1</sup>For 1941-1946, data were reported for the federal fiscal year ending June 30 of the year indicated. From 1947 to the present, data were reported for the calendar year ending December 31. For 1941-1958, data for Alaska and Hawaii were not included.

<sup>2</sup>For 1941-1994, rates include all cases of congenitally acquired syphilis per 100,000 population. As of 1995, rates of congenital syphilis <1 year of age per 100,000 population are reported. **For rates of congenital syphilis <1 year of age per 100,000 live births see Tables 40, 41 and 42.** As of 1995, cases of congenital syphilis <1 year of age are obtained in hardcopy and electronic format based on case reporting form CDC 73.126.

Note: Adjustments to the number of cases reported from state health departments were made for hardcopy forms and for electronic data submissions through May 3, 2002 (see Appendix). The number of cases and the rates shown here supersede those published in previous reports. Cases and rates shown in this table exclude the outlying areas of Guam, Puerto Rico and Virgin Islands.

**Table 2. Reported cases of sexually transmitted disease by sex and reporting source: United States, 2001**

| <i>Disease*</i>                   | <i>Non-STD Clinic</i> |               |              | <i>STD Clinic</i> |               |              | <i>Total<sup>1</sup></i> |               |              |
|-----------------------------------|-----------------------|---------------|--------------|-------------------|---------------|--------------|--------------------------|---------------|--------------|
|                                   | <i>Male</i>           | <i>Female</i> | <i>Total</i> | <i>Male</i>       | <i>Female</i> | <i>Total</i> | <i>Male</i>              | <i>Female</i> | <i>Total</i> |
| Total Chlamydia Trachomatis       | 93,326                | 512,758       | 607,636      | 63,946            | 111,146       | 175,520      | 157,304                  | 623,958       | 783,242      |
| Chlamydial PID <sup>2</sup>       | NA                    | 2,817         | 2,819        | NA                | 370           | 377          | NA                       | 3,187         | 3,196        |
| Ophthalmia Neonatorum             | 89                    | 153           | 242          | 5                 | 13            | 18           | 94                       | 166           | 260          |
| Total Gonorrhea                   | 89,688                | 139,193       | 229,403      | 87,500            | 44,667        | 132,293      | 177,194                  | 183,863       | 361,705      |
| Gonococcal PID                    | NA                    | 2,537         | 2,538        | NA                | 465           | 471          | NA                       | 3,002         | 3,009        |
| Ophthalmia Neonatorum             | 14                    | 18            | 32           | 6                 | 7             | 13           | 20                       | 25            | 45           |
| Total Syphilis                    | NA                    | NA            | NA           | NA                | NA            | NA           | 18,461                   | 13,711        | 32,221       |
| Primary                           | 697                   | 142           | 840          | 916               | 161           | 1,077        | 1,613                    | 303           | 1,917        |
| Secondary                         | 1,402                 | 883           | 2,285        | 1,119             | 781           | 1,901        | 2,521                    | 1,664         | 4,186        |
| Early Latent                      | 2,682                 | 2,207         | 4,890        | 2,099             | 1,712         | 3,811        | 4,781                    | 3,919         | 8,701        |
| Late and Late Latent <sup>3</sup> | 5,585                 | 4,898         | 10,495       | 3,754             | 2,714         | 6,481        | 9,339                    | 7,612         | 16,976       |
| Neurosyphilis <sup>4</sup>        | 240                   | 73            | 313          | 10                | 1             | 11           | 250                      | 74            | 324          |
| Congenital <1 year <sup>5</sup>   | NR                    | NR            | NR           | NR                | NR            | NR           | 207                      | 213           | 441          |
| Chancroid                         | 7                     | 6             | 13           | 17                | 8             | 25           | 24                       | 14            | 38           |
| Granuloma Inguinale               | 0                     | 1             | 1            | 3                 | 3             | 6            | 3                        | 4             | 7            |
| Lymphogranuloma Venereum          | 5                     | 8             | 13           | 10                | 2             | 12           | 15                       | 10            | 25           |

\*NA = Not applicable. NR = No report.

<sup>1</sup>Totals include unknown sex and reporting source.

<sup>2</sup>PID = Pelvic inflammatory disease.

<sup>3</sup>Cases of unknown duration for syphilis are included in late and late latent syphilis.

<sup>4</sup>Neurosyphilis cases are not included with Total Syphilis cases but are included in the late and late latent syphilis cases.

<sup>5</sup>Cases of congenital syphilis <1 year of age are obtained using reporting from CDC 73.126. Clinic reporting source is not available from that form.

**Table 3. Chlamydia — Reported cases and rates by state/area, ranked by rates: United States, 2001**

| <i>Rank<sup>2</sup></i> | <i>State/Area</i>             | <i>Cases</i>   | <i>Rate per 100,000 Population</i> |
|-------------------------|-------------------------------|----------------|------------------------------------|
| 1                       | Alaska                        | 2,744          | 437.7                              |
| 2                       | Mississippi                   | 11,793         | 414.6                              |
| 3                       | Georgia                       | 33,840         | 413.4                              |
| 4                       | Louisiana                     | 17,840         | 399.2                              |
| 5                       | South Carolina                | 15,329         | 382.1                              |
| 6                       | Delaware                      | 2,793          | 356.4                              |
| 7                       | Illinois                      | 43,716         | 352.0                              |
| 8                       | New Mexico                    | 6,254          | 343.8                              |
| 9                       | Texas                         | 69,752         | 334.5                              |
| 10                      | Hawaii                        | 4,031          | 332.7                              |
| 11                      | Ohio                          | 37,653         | 331.7                              |
| 12                      | Alabama                       | 14,524         | 326.6                              |
| 13                      | Michigan                      | 31,090         | 312.8                              |
| 14                      | Colorado                      | 13,239         | 307.8                              |
| 15                      | Oklahoma                      | 10,478         | 303.7                              |
| 16                      | Wisconsin                     | 16,284         | 303.6                              |
| 17                      | California                    | 101,944        | 301.0                              |
| 18                      | Maryland                      | 15,640         | 295.3                              |
| 19                      | Arizona                       | 14,346         | 279.6                              |
|                         | <b>U.S. TOTAL<sup>1</sup></b> | <b>783,242</b> | <b>278.3</b>                       |
| 20                      | Rhode Island                  | 2,912          | 277.8                              |
| 21                      | North Carolina                | 22,101         | 274.6                              |
| 22                      | Tennessee                     | 15,560         | 273.5                              |
| 23                      | Arkansas                      | 7,280          | 272.3                              |
| 24                      | Virginia                      | 18,337         | 259.1                              |
| 25                      | Indiana                       | 15,258         | 250.9                              |
| 26                      | Missouri                      | 13,949         | 249.3                              |
| 27                      | New York                      | 46,393         | 244.5                              |
| 28                      | Nevada                        | 4,831          | 241.8                              |
| 29                      | South Dakota                  | 1,821          | 241.2                              |
| 30                      | Florida                       | 37,625         | 235.4                              |
| 31                      | Washington                    | 13,631         | 231.3                              |
| 32                      | Pennsylvania                  | 28,371         | 231.0                              |
| 33                      | Connecticut                   | 7,718          | 226.6                              |
| 34                      | Kansas                        | 6,050          | 225.0                              |
| 35                      | Kentucky                      | 8,881          | 219.7                              |
| 36                      | Oregon                        | 7,454          | 217.9                              |
| 37                      | Montana                       | 1,919          | 212.7                              |
| 38                      | Iowa                          | 5,699          | 194.7                              |
| 39                      | New Jersey                    | 16,312         | 193.9                              |
| 40                      | Nebraska                      | 3,206          | 187.3                              |
| 41                      | Wyoming                       | 839            | 169.9                              |
| 42                      | Minnesota                     | 8,323          | 169.2                              |
| 43                      | North Dakota                  | 1,062          | 165.4                              |
| 44                      | Massachusetts                 | 10,402         | 163.8                              |
| 45                      | Idaho                         | 2,023          | 156.3                              |
| 46                      | Utah                          | 3,004          | 134.5                              |
| 47                      | West Virginia                 | 2,346          | 129.7                              |
| 48                      | New Hampshire                 | 1,383          | 111.9                              |
| 49                      | Maine                         | 1,338          | 104.9                              |
| 50                      | Vermont                       | 638            | 104.8                              |

<sup>1</sup>Total includes cases reported by Washington, D.C., but excludes outlying areas (Guam with 431 cases and rate of 278.4, Puerto Rico with 2,748 cases and rate of 72.2, and Virgin Islands with 131 cases and rate of 120.6). See Appendix.

<sup>2</sup>States were ranked in descending order by rate, number of cases, and alphabetically by state.

**Table 4. Chlamydia — Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001**

| State/Area              | Cases   |         |         |         |         | Rates per 100,000 Population |       |       |       |       |
|-------------------------|---------|---------|---------|---------|---------|------------------------------|-------|-------|-------|-------|
|                         | 1997    | 1998    | 1999    | 2000    | 2001    | 1997                         | 1998  | 1999  | 2000  | 2001  |
| Alabama                 | 8,704   | 10,065  | 12,375  | 15,323  | 14,524  | 201.5                        | 231.3 | 283.2 | 344.6 | 326.6 |
| Alaska                  | 1,616   | 1,907   | 1,886   | 2,569   | 2,744   | 265.2                        | 310.6 | 304.4 | 409.8 | 437.7 |
| Arizona                 | 10,783  | 11,489  | 12,111  | 12,591  | 14,346  | 236.7                        | 246.1 | 253.5 | 245.4 | 279.6 |
| Arkansas                | 2,503   | 4,123   | 5,865   | 6,219   | 7,280   | 99.2                         | 162.4 | 229.9 | 232.6 | 272.3 |
| California              | 68,737  | 76,519  | 85,156  | 95,392  | 101,944 | 213.0                        | 234.2 | 256.9 | 281.6 | 301.0 |
| Colorado <sup>2</sup>   | 7,749   | 9,113   | 10,848  | 12,000  | 13,239  | 199.1                        | 229.5 | 267.4 | 279.0 | 307.8 |
| Connecticut             | 6,377   | 6,977   | 7,422   | 7,604   | 7,718   | 195.0                        | 213.1 | 226.1 | 223.3 | 226.6 |
| Delaware                | 2,613   | 2,608   | 2,761   | 2,856   | 2,793   | 357.2                        | 350.7 | 366.4 | 364.5 | 356.4 |
| Florida                 | 26,788  | 24,949  | 31,410  | 33,390  | 37,625  | 182.8                        | 167.3 | 207.9 | 208.9 | 235.4 |
| Georgia                 | 15,911  | 25,250  | 30,368  | 29,359  | 33,840  | 212.5                        | 330.4 | 389.9 | 358.6 | 413.4 |
| Hawaii                  | 1,829   | 2,604   | 3,165   | 3,547   | 4,031   | 154.1                        | 218.3 | 267.0 | 292.8 | 332.7 |
| Idaho                   | 1,709   | 2,035   | 1,778   | 1,907   | 2,023   | 141.2                        | 165.6 | 142.0 | 147.4 | 156.3 |
| Illinois                | 29,184  | 32,861  | 36,409  | 40,350  | 43,716  | 245.3                        | 272.8 | 300.2 | 324.9 | 352.0 |
| Indiana                 | 9,600   | 10,801  | 11,734  | 14,063  | 15,258  | 163.7                        | 183.1 | 197.4 | 231.3 | 250.9 |
| Iowa                    | 4,907   | 5,174   | 5,511   | 5,987   | 5,699   | 172.0                        | 180.8 | 192.1 | 204.6 | 194.7 |
| Kansas                  | 4,627   | 5,587   | 6,093   | 6,056   | 6,050   | 178.3                        | 212.5 | 229.6 | 225.3 | 225.0 |
| Kentucky                | 6,332   | 6,441   | 7,378   | 8,063   | 8,881   | 162.0                        | 163.6 | 186.3 | 199.5 | 219.7 |
| Louisiana               | 11,545  | 15,188  | 16,635  | 17,846  | 17,840  | 265.3                        | 347.6 | 380.5 | 399.3 | 399.2 |
| Maine                   | 1,066   | 1,073   | 1,220   | 1,474   | 1,338   | 85.8                         | 86.2  | 97.4  | 115.6 | 104.9 |
| Maryland                | 13,978  | 13,097  | 13,568  | 14,533  | 15,640  | 274.4                        | 255.1 | 262.4 | 274.4 | 295.3 |
| Massachusetts           | 7,984   | 8,363   | 8,776   | 10,967  | 10,402  | 130.5                        | 136.0 | 142.1 | 172.7 | 163.8 |
| Michigan                | 21,399  | 22,156  | 23,107  | 26,237  | 31,090  | 218.9                        | 225.7 | 234.3 | 264.0 | 312.8 |
| Minnesota               | 6,631   | 6,970   | 7,450   | 8,102   | 8,323   | 141.5                        | 147.5 | 156.0 | 164.7 | 169.2 |
| Mississippi             | 10,020  | 10,614  | 11,545  | 12,697  | 11,793  | 367.0                        | 385.7 | 417.0 | 446.3 | 414.6 |
| Missouri                | 12,257  | 12,670  | 13,355  | 13,448  | 13,949  | 226.9                        | 233.0 | 244.2 | 240.3 | 249.3 |
| Montana                 | 1,146   | 1,412   | 1,584   | 1,469   | 1,919   | 130.4                        | 160.4 | 179.4 | 162.8 | 212.7 |
| Nebraska                | 2,766   | 2,911   | 3,616   | 3,791   | 3,206   | 166.9                        | 175.1 | 217.0 | 221.5 | 187.3 |
| Nevada                  | 2,887   | 3,320   | 3,086   | 4,019   | 4,831   | 172.2                        | 190.1 | 170.6 | 201.1 | 241.8 |
| New Hampshire           | 816     | 960     | 976     | 1,130   | 1,383   | 69.6                         | 81.0  | 81.3  | 91.4  | 111.9 |
| New Jersey              | 10,339  | 11,686  | 12,424  | 10,814  | 16,312  | 128.4                        | 144.0 | 152.6 | 128.5 | 193.9 |
| New Mexico              | 4,021   | 3,793   | 5,017   | 5,204   | 6,254   | 232.5                        | 218.4 | 288.4 | 286.1 | 343.8 |
| New York <sup>3</sup>   | 28,468  | 26,218  | 26,766  | 31,494  | 46,393  | 387.7                        | 353.3 | 360.3 | 166.0 | 244.5 |
| North Carolina          | 17,108  | 22,197  | 21,812  | 21,985  | 22,101  | 230.4                        | 294.1 | 285.1 | 273.1 | 274.6 |
| North Dakota            | 902     | 1,036   | 947     | 909     | 1,062   | 140.7                        | 162.3 | 149.4 | 141.5 | 165.4 |
| Ohio                    | 22,827  | 27,786  | 29,398  | 31,190  | 37,653  | 204.1                        | 247.9 | 261.2 | 274.7 | 331.7 |
| Oklahoma                | 7,419   | 9,393   | 8,195   | 9,331   | 10,478  | 223.7                        | 280.7 | 244.0 | 270.4 | 303.7 |
| Oregon                  | 5,270   | 5,855   | 6,127   | 7,107   | 7,454   | 162.5                        | 178.4 | 184.8 | 207.7 | 217.9 |
| Pennsylvania            | 19,838  | 24,629  | 27,019  | 26,475  | 28,371  | 165.0                        | 205.2 | 225.3 | 215.6 | 231.0 |
| Rhode Island            | 2,069   | 2,307   | 2,345   | 2,632   | 2,912   | 209.5                        | 233.4 | 236.7 | 251.1 | 277.8 |
| South Carolina          | 12,511  | 18,510  | 18,499  | 9,950   | 15,329  | 332.7                        | 482.5 | 476.1 | 248.0 | 382.1 |
| South Dakota            | 1,439   | 1,572   | 1,544   | 1,834   | 1,821   | 195.0                        | 213.0 | 210.6 | 243.0 | 241.2 |
| Tennessee               | 12,502  | 13,717  | 14,216  | 15,069  | 15,560  | 232.9                        | 252.6 | 259.2 | 264.9 | 273.5 |
| Texas                   | 50,675  | 60,436  | 62,958  | 68,814  | 69,752  | 260.7                        | 305.9 | 314.1 | 330.0 | 334.5 |
| Utah                    | 1,774   | 2,209   | 2,219   | 2,190   | 3,004   | 86.2                         | 105.2 | 104.2 | 98.1  | 134.5 |
| Vermont                 | 434     | 413     | 485     | 526     | 638     | 73.7                         | 69.9  | 81.7  | 86.4  | 104.8 |
| Virginia                | 11,955  | 13,561  | 13,735  | 15,352  | 18,337  | 177.5                        | 199.7 | 199.8 | 216.9 | 259.1 |
| Washington              | 9,523   | 10,998  | 11,964  | 13,066  | 13,631  | 169.7                        | 193.3 | 207.8 | 221.7 | 231.3 |
| West Virginia           | 3,108   | 2,791   | 1,820   | 2,144   | 2,346   | 171.2                        | 154.1 | 100.7 | 118.6 | 129.7 |
| Wisconsin               | 9,554   | 13,999  | 14,462  | 16,365  | 16,284  | 184.8                        | 268.0 | 275.4 | 305.1 | 303.6 |
| Wyoming                 | 635     | 725     | 787     | 807     | 839     | 132.4                        | 150.8 | 164.1 | 163.4 | 169.9 |
| U.S. TOTAL <sup>1</sup> | 537,904 | 614,250 | 662,647 | 709,452 | 783,242 | 209.4                        | 236.7 | 253.0 | 252.1 | 278.3 |
| Northeast               | 77,391  | 82,626  | 87,433  | 93,116  | 115,467 | 189.7                        | 201.7 | 212.9 | 173.7 | 215.4 |
| Midwest                 | 126,093 | 143,523 | 153,626 | 168,332 | 184,111 | 201.9                        | 228.2 | 242.9 | 261.4 | 285.9 |
| South                   | 216,741 | 256,122 | 275,860 | 286,136 | 307,405 | 230.1                        | 268.4 | 286.0 | 285.5 | 306.7 |
| West                    | 117,679 | 131,979 | 145,728 | 161,868 | 176,259 | 198.1                        | 219.0 | 238.3 | 256.1 | 278.9 |
| Guam                    | 368     | 410     | 497     | 525     | 431     | 235.6                        | 256.5 | 303.9 | 339.1 | 278.4 |
| Puerto Rico             | 2,123   | 1,685   | 1,445   | 2,695   | 2,748   | 55.5                         | 43.7  | 37.2  | 70.8  | 72.2  |
| Virgin Islands          | 14      | 10      | 136     | 131     | 131     | 12.8                         | 9.1   | 120.5 | 120.6 | 120.6 |
| OUTLYING AREAS          | 2,505   | 2,105   | 2,078   | 3,351   | 3,310   | 61.2                         | 51.0  | 49.9  | 82.3  | 81.3  |
| TOTAL                   | 540,409 | 616,355 | 664,725 | 712,803 | 786,552 | 207.1                        | 233.8 | 249.8 | 249.7 | 275.5 |

<sup>1</sup>Includes cases reported by Washington, D.C., and rates exclude population of states that did not report.

<sup>2</sup>The number of chlamydia cases occurring in the fourth quarter of 2000 for the State of Colorado was projected based on case counts from the first three quarters.

<sup>3</sup>New York City has been reporting chlamydia cases since 1984. However, the State of New York, with the exception of New York City, initiated chlamydia reporting during the year 2000. As a result, the number of chlamydia cases reported from 1997–2000 by the state of New York may be incomplete and the rate for New York State is underestimated. See Appendix.

**Table 5. Chlamydia — Women – Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001**

| State/Area              | Cases   |         |         |         |         | Rates per 100,000 Population |       |       |       |       |
|-------------------------|---------|---------|---------|---------|---------|------------------------------|-------|-------|-------|-------|
|                         | 1997    | 1998    | 1999    | 2000    | 2001    | 1997                         | 1998  | 1999  | 2000  | 2001  |
| Alabama                 | 7,957   | 9,197   | 11,524  | 13,746  | 13,375  | 354.9                        | 406.2 | 507.1 | 597.5 | 581.4 |
| Alaska                  | 1,291   | 1,479   | 1,456   | 1,863   | 1,981   | 446.6                        | 506.9 | 494.5 | 615.2 | 654.2 |
| Arizona                 | 8,597   | 9,015   | 9,497   | 10,008  | 11,193  | 374.3                        | 382.0 | 393.4 | 389.5 | 435.6 |
| Arkansas                | 2,346   | 3,850   | 4,618   | 5,015   | 5,949   | 180.3                        | 293.4 | 350.3 | 366.4 | 434.6 |
| California              | 53,536  | 59,747  | 66,334  | 72,178  | 76,261  | 332.4                        | 365.6 | 400.4 | 424.7 | 448.7 |
| Colorado <sup>2</sup>   | 5,958   | 6,979   | 8,172   | 8,748   | 9,894   | 303.8                        | 348.5 | 399.5 | 409.7 | 463.4 |
| Connecticut             | 5,282   | 5,828   | 6,053   | 6,238   | 6,260   | 314.4                        | 345.8 | 358.3 | 355.2 | 356.4 |
| Delaware                | 2,070   | 2,117   | 2,268   | 2,271   | 2,125   | 551.9                        | 554.2 | 585.6 | 563.4 | 527.2 |
| Florida                 | 21,953  | 20,171  | 25,957  | 27,562  | 30,647  | 291.5                        | 262.7 | 333.6 | 336.8 | 374.4 |
| Georgia                 | 13,927  | 21,156  | 24,685  | 24,067  | 27,905  | 363.1                        | 539.2 | 617.6 | 578.6 | 670.9 |
| Hawaii                  | 1,548   | 2,209   | 2,557   | 2,757   | 3,053   | 262.4                        | 371.4 | 430.9 | 457.3 | 506.4 |
| Idaho                   | 1,336   | 1,553   | 1,308   | 1,435   | 1,469   | 220.8                        | 252.3 | 208.5 | 222.4 | 227.6 |
| Illinois                | 23,478  | 26,112  | 28,758  | 31,771  | 33,124  | 385.9                        | 423.1 | 462.9 | 501.2 | 522.5 |
| Indiana                 | 7,819   | 8,823   | 9,410   | 10,935  | 11,668  | 260.2                        | 291.3 | 308.4 | 353.0 | 376.6 |
| Iowa                    | 3,900   | 4,077   | 4,208   | 4,480   | 4,295   | 267.0                        | 277.6 | 285.8 | 300.5 | 288.1 |
| Kansas                  | 3,840   | 4,649   | 5,034   | 4,973   | 4,977   | 291.5                        | 347.8 | 373.3 | 365.7 | 366.0 |
| Kentucky                | 5,128   | 5,126   | 5,891   | 6,466   | 7,081   | 255.3                        | 253.0 | 289.2 | 312.9 | 342.7 |
| Louisiana               | 9,414   | 12,169  | 13,247  | 14,099  | 14,416  | 417.6                        | 536.5 | 584.0 | 611.4 | 625.1 |
| Maine                   | 898     | 899     | 991     | 1,143   | 1,040   | 141.4                        | 141.0 | 154.5 | 174.6 | 158.9 |
| Maryland                | 12,180  | 11,093  | 11,351  | 12,099  | 12,863  | 466.0                        | 420.2 | 427.0 | 441.8 | 469.7 |
| Massachusetts           | 6,522   | 6,812   | 6,959   | 8,452   | 7,897   | 206.2                        | 214.0 | 217.7 | 256.9 | 240.0 |
| Michigan                | 18,289  | 18,769  | 18,869  | 20,905  | 24,550  | 365.1                        | 372.4 | 372.6 | 412.7 | 484.7 |
| Minnesota               | 4,953   | 5,119   | 5,469   | 5,856   | 6,010   | 208.7                        | 213.5 | 225.8 | 235.8 | 242.0 |
| Mississippi             | 8,590   | 9,185   | 9,953   | 11,005  | 10,258  | 605.6                        | 640.9 | 690.3 | 748.1 | 697.3 |
| Missouri                | 10,749  | 11,063  | 11,515  | 11,525  | 11,854  | 386.5                        | 394.4 | 408.5 | 400.9 | 412.3 |
| Montana                 | 941     | 1,131   | 1,192   | 1,097   | 1,466   | 213.5                        | 255.4 | 268.5 | 242.3 | 323.8 |
| Nebraska                | 2,288   | 2,390   | 2,903   | 3,018   | 2,521   | 270.9                        | 281.4 | 341.0 | 347.7 | 290.5 |
| Nevada                  | 2,484   | 2,820   | 2,500   | 3,124   | 3,586   | 302.3                        | 328.8 | 281.5 | 318.7 | 365.8 |
| New Hampshire           | 639     | 726     | 769     | 889     | 1,042   | 107.4                        | 120.6 | 126.0 | 141.5 | 165.9 |
| New Jersey              | 9,641   | 10,735  | 11,123  | 9,486   | 14,352  | 232.6                        | 256.6 | 265.0 | 219.0 | 331.3 |
| New Mexico              | 3,503   | 3,204   | 4,177   | 4,171   | 4,891   | 399.5                        | 363.1 | 472.6 | 451.1 | 528.9 |
| New York <sup>3</sup>   | 25,706  | 23,449  | 23,896  | 26,928  | 38,297  | 662.8                        | 596.4 | 607.9 | 273.9 | 389.6 |
| North Carolina          | 14,553  | 18,646  | 18,416  | 18,625  | 18,628  | 381.5                        | 479.8 | 467.3 | 453.5 | 453.6 |
| North Dakota            | 684     | 755     | 680     | 663     | 716     | 212.9                        | 235.5 | 213.5 | 206.1 | 222.6 |
| Ohio                    | 19,727  | 23,248  | 23,380  | 25,105  | 29,521  | 342.0                        | 401.4 | 402.0 | 429.8 | 505.4 |
| Oklahoma                | 6,269   | 7,696   | 6,737   | 7,715   | 8,600   | 370.1                        | 449.4 | 392.0 | 439.7 | 490.1 |
| Oregon                  | 3,848   | 4,307   | 4,462   | 5,192   | 5,442   | 234.8                        | 259.3 | 265.8 | 301.0 | 315.5 |
| Pennsylvania            | 17,257  | 20,878  | 22,470  | 21,389  | 22,521  | 277.0                        | 335.0 | 360.8 | 336.8 | 354.6 |
| Rhode Island            | 1,738   | 1,779   | 1,769   | 1,969   | 2,197   | 339.4                        | 346.5 | 343.8 | 361.5 | 403.4 |
| South Carolina          | 11,120  | 16,489  | 16,669  | 8,721   | 13,528  | 572.2                        | 829.7 | 829.0 | 422.7 | 655.7 |
| South Dakota            | 1,021   | 1,171   | 1,194   | 1,308   | 1,311   | 272.9                        | 312.2 | 320.4 | 344.0 | 344.7 |
| Tennessee               | 9,605   | 10,552  | 11,084  | 11,648  | 12,105  | 346.4                        | 375.5 | 390.7 | 399.0 | 414.7 |
| Texas                   | 42,750  | 49,940  | 52,071  | 56,817  | 57,611  | 435.0                        | 498.7 | 512.7 | 541.2 | 548.7 |
| Utah                    | 1,357   | 1,616   | 1,618   | 1,610   | 2,119   | 131.3                        | 153.0 | 151.0 | 144.5 | 190.2 |
| Vermont                 | 379     | 357     | 414     | 432     | 523     | 126.9                        | 118.9 | 137.3 | 139.1 | 168.4 |
| Virginia                | 10,452  | 11,567  | 11,556  | 12,976  | 15,177  | 304.2                        | 332.9 | 328.8 | 359.8 | 420.8 |
| Washington              | 7,331   | 8,377   | 8,880   | 9,583   | 10,159  | 260.5                        | 292.8 | 306.8 | 323.8 | 343.2 |
| West Virginia           | 2,590   | 2,340   | 1,585   | 1,790   | 1,969   | 275.8                        | 249.3 | 169.2 | 192.6 | 211.9 |
| Wisconsin               | 7,459   | 10,846  | 11,225  | 12,352  | 12,045  | 284.2                        | 408.2 | 420.4 | 455.0 | 443.7 |
| Wyoming                 | 536     | 595     | 649     | 667     | 679     | 225.1                        | 248.8 | 271.9 | 271.8 | 276.7 |
| U.S. TOTAL <sup>1</sup> | 448,097 | 505,533 | 539,894 | 569,658 | 623,958 | 341.8                        | 380.8 | 403.1 | 397.3 | 435.2 |
| Northeast               | 68,062  | 71,463  | 74,444  | 76,926  | 94,129  | 322.0                        | 336.0 | 349.3 | 277.7 | 339.9 |
| Midwest                 | 104,207 | 117,022 | 122,645 | 132,891 | 142,592 | 326.0                        | 362.9 | 378.3 | 404.7 | 434.2 |
| South                   | 183,562 | 214,016 | 230,003 | 237,408 | 255,044 | 380.1                        | 436.5 | 464.2 | 463.9 | 498.3 |
| West                    | 92,266  | 103,032 | 112,802 | 122,433 | 132,193 | 310.5                        | 341.1 | 368.2 | 386.8 | 417.6 |
| Guam                    | 325     | 351     | 432     | 430     | 347     | 442.6                        | 467.3 | 562.1 | 568.6 | 458.8 |
| Puerto Rico             | 1,722   | 1,327   | 1,147   | 2,226   | 2,313   | 86.5                         | 66.1  | 56.7  | 112.7 | 117.1 |
| Virgin Islands          | 13      | 10      | 113     | 108     | 116     | 22.8                         | 17.4  | 219.1 | 190.3 | 204.4 |
| OUTLYING AREAS          | 2,060   | 1,688   | 1,692   | 2,764   | 2,776   | 97.1                         | 78.9  | 78.7  | 131.2 | 131.7 |
| TOTAL                   | 450,157 | 507,221 | 541,586 | 572,422 | 626,734 | 337.9                        | 376.0 | 398.0 | 393.5 | 430.8 |

<sup>1</sup>Includes cases reported by Washington, D.C., and rates exclude population of states that did not report. Cases reported with unknown sex are not included in this table.

<sup>2</sup>The number of chlamydia cases occurring in the fourth quarter of 2000 for the State of Colorado was projected based on case counts from the first three quarters.

<sup>3</sup>New York City has been reporting chlamydia cases since 1984. However, the State of New York, with the exception of New York City, initiated chlamydia reporting during the year 2000. As a result, the number of chlamydia cases reported from 1997–2000 by the state of New York may be incomplete and the rate for New York State is underestimated. See Appendix.

**Table 6. Chlamydia — Men — Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001**

| State/Area              | Cases* |         |         |         |         | Rates per 100,000 Population |       |       |       |       |
|-------------------------|--------|---------|---------|---------|---------|------------------------------|-------|-------|-------|-------|
|                         | 1997   | 1998    | 1999    | 2000    | 2001    | 1997                         | 1998  | 1999  | 2000  | 2001  |
| Alabama                 | 708    | 844     | 795     | 1,432   | 1,124   | 34.1                         | 40.4  | 37.9  | 66.7  | 52.4  |
| Alaska                  | 325    | 428     | 430     | 706     | 763     | 101.5                        | 132.8 | 132.3 | 217.8 | 235.4 |
| Arizona                 | 2,186  | 2,474   | 2,614   | 2,583   | 3,153   | 96.8                         | 107.1 | 110.6 | 100.9 | 123.1 |
| Arkansas                | 143    | 267     | 1,247   | 1,204   | 1,325   | 11.7                         | 21.8  | 101.1 | 92.3  | 101.6 |
| California              | 14,875 | 16,525  | 18,236  | 22,759  | 24,930  | 92.0                         | 101.2 | 110.0 | 134.9 | 147.7 |
| Colorado <sup>2</sup>   | 1,784  | 2,115   | 2,666   | 3,251   | 3,328   | 92.4                         | 107.5 | 132.6 | 150.1 | 153.6 |
| Connecticut             | 1,095  | 1,149   | 1,369   | 1,366   | 1,445   | 68.9                         | 72.3  | 85.9  | 82.8  | 87.6  |
| Delaware                | 543    | 491     | 493     | 585     | 668     | 152.3                        | 135.8 | 134.6 | 153.7 | 175.5 |
| Florida                 | 4,835  | 4,363   | 5,341   | 5,828   | 6,967   | 67.9                         | 60.3  | 72.9  | 74.7  | 89.3  |
| Georgia                 | 1,962  | 3,932   | 5,462   | 5,102   | 5,926   | 53.7                         | 105.7 | 144.1 | 126.7 | 147.2 |
| Hawaii                  | 281    | 395     | 583     | 777     | 977     | 47.1                         | 66.0  | 98.5  | 127.7 | 160.5 |
| Idaho                   | 373    | 482     | 446     | 462     | 528     | 61.6                         | 78.6  | 71.4  | 71.2  | 81.4  |
| Illinois                | 5,706  | 6,749   | 7,642   | 8,578   | 10,588  | 98.2                         | 114.9 | 129.2 | 141.1 | 174.1 |
| Indiana                 | 1,773  | 1,968   | 2,313   | 3,093   | 3,555   | 62.0                         | 68.6  | 80.0  | 103.7 | 119.2 |
| Iowa                    | 1,007  | 1,096   | 1,302   | 1,505   | 1,401   | 72.4                         | 78.6  | 93.2  | 104.8 | 97.6  |
| Kansas                  | 787    | 938     | 1,059   | 1,083   | 1,073   | 61.6                         | 72.6  | 81.1  | 81.5  | 80.8  |
| Kentucky                | 1,182  | 1,093   | 1,328   | 1,513   | 1,779   | 62.2                         | 57.2  | 69.0  | 76.6  | 90.1  |
| Louisiana               | 2,131  | 3,019   | 3,388   | 3,747   | 3,424   | 101.6                        | 143.7 | 161.0 | 173.2 | 158.3 |
| Maine                   | 168    | 174     | 229     | 331     | 297     | 27.7                         | 28.7  | 37.5  | 53.4  | 47.9  |
| Maryland                | 1,798  | 1,973   | 2,196   | 2,379   | 2,777   | 72.5                         | 79.1  | 87.4  | 93.0  | 108.6 |
| Massachusetts           | 1,462  | 1,551   | 1,817   | 2,515   | 2,502   | 49.5                         | 52.3  | 61.0  | 82.2  | 81.8  |
| Michigan                | 3,110  | 3,387   | 4,237   | 5,331   | 6,540   | 65.3                         | 70.9  | 88.3  | 109.4 | 134.2 |
| Minnesota               | 1,678  | 1,851   | 1,981   | 2,246   | 2,313   | 72.6                         | 79.5  | 84.2  | 92.2  | 95.0  |
| Mississippi             | 1,200  | 1,355   | 1,450   | 1,647   | 1,535   | 91.5                         | 102.7 | 109.3 | 119.9 | 111.8 |
| Missouri                | 1,508  | 1,607   | 1,840   | 1,923   | 2,095   | 57.5                         | 61.0  | 69.4  | 70.7  | 77.0  |
| Montana                 | 198    | 281     | 392     | 371     | 449     | 45.2                         | 64.2  | 89.3  | 82.5  | 99.9  |
| Nebraska                | 473    | 520     | 712     | 769     | 680     | 58.2                         | 63.9  | 87.4  | 91.2  | 80.6  |
| Nevada                  | 403    | 498     | 586     | 893     | 1,239   | 47.1                         | 56.0  | 63.6  | 87.7  | 121.7 |
| New Hampshire           | 177    | 234     | 207     | 241     | 341     | 30.6                         | 40.1  | 35.0  | 39.7  | 56.1  |
| New Jersey              | 689    | 944     | 1,281   | 1,279   | 1,948   | 17.6                         | 24.0  | 32.5  | 31.3  | 47.7  |
| New Mexico              | 518    | 589     | 839     | 1,001   | 1,237   | 60.7                         | 68.9  | 98.0  | 111.9 | 138.3 |
| New York <sup>3</sup>   | 2,762  | 2,669   | 2,846   | 4,436   | 8,042   | 79.7                         | 76.5  | 81.4  | 48.5  | 87.9  |
| North Carolina          | 2,555  | 3,551   | 3,396   | 3,359   | 3,473   | 70.8                         | 97.0  | 91.5  | 85.2  | 88.1  |
| North Dakota            | 218    | 281     | 267     | 246     | 346     | 68.2                         | 88.5  | 84.7  | 76.7  | 107.9 |
| Ohio                    | 2,884  | 4,211   | 5,604   | 5,819   | 7,603   | 53.2                         | 77.7  | 103.0 | 105.6 | 137.9 |
| Oklahoma                | 1,150  | 1,697   | 1,458   | 1,616   | 1,878   | 70.8                         | 103.8 | 88.9  | 95.3  | 110.7 |
| Oregon                  | 1,422  | 1,548   | 1,665   | 1,915   | 2,012   | 88.6                         | 95.5  | 101.7 | 112.9 | 118.6 |
| Pennsylvania            | 2,581  | 3,751   | 4,549   | 5,086   | 5,850   | 44.6                         | 65.0  | 78.9  | 85.8  | 98.7  |
| Rhode Island            | 331    | 528     | 576     | 663     | 715     | 69.6                         | 111.1 | 120.9 | 131.6 | 142.0 |
| South Carolina          | 1,215  | 1,837   | 1,679   | 1,127   | 1,731   | 66.9                         | 99.4  | 89.5  | 57.8  | 88.8  |
| South Dakota            | 417    | 400     | 348     | 523     | 510     | 114.6                        | 110.2 | 96.5  | 139.6 | 136.2 |
| Tennessee               | 2,897  | 3,165   | 3,132   | 3,421   | 3,455   | 111.6                        | 120.8 | 118.3 | 123.5 | 124.7 |
| Texas                   | 7,925  | 10,301  | 10,597  | 11,829  | 12,033  | 82.5                         | 105.7 | 107.2 | 114.3 | 116.2 |
| Utah                    | 417    | 593     | 601     | 580     | 882     | 40.7                         | 56.8  | 56.8  | 51.8  | 78.8  |
| Vermont                 | 55     | 56      | 71      | 94      | 115     | 19.0                         | 19.3  | 24.3  | 31.5  | 38.5  |
| Virginia                | 1,379  | 1,988   | 2,177   | 2,359   | 3,107   | 41.8                         | 59.9  | 64.8  | 67.9  | 89.5  |
| Washington              | 2,192  | 2,621   | 3,084   | 3,483   | 3,472   | 78.4                         | 92.7  | 107.8 | 118.7 | 118.3 |
| West Virginia           | 515    | 448     | 233     | 350     | 371     | 58.7                         | 51.3  | 26.8  | 39.8  | 42.2  |
| Wisconsin               | 2,095  | 3,144   | 3,212   | 4,006   | 4,191   | 82.3                         | 122.5 | 124.5 | 151.2 | 158.2 |
| Wyoming                 | 99     | 130     | 138     | 140     | 160     | 41.0                         | 53.8  | 57.3  | 56.4  | 64.4  |
| U.S. TOTAL <sup>1</sup> | 88,598 | 106,671 | 120,430 | 137,957 | 157,304 | 70.5                         | 84.1  | 94.1  | 99.9  | 113.9 |
| Northeast               | 9,320  | 11,056  | 12,945  | 16,011  | 21,255  | 47.4                         | 56.1  | 65.5  | 61.8  | 82.1  |
| Midwest                 | 21,656 | 26,152  | 30,517  | 35,122  | 40,895  | 71.0                         | 85.3  | 99.0  | 111.3 | 129.6 |
| South                   | 32,549 | 40,784  | 44,688  | 47,903  | 52,024  | 70.9                         | 87.9  | 95.3  | 97.6  | 106.0 |
| West                    | 25,073 | 28,679  | 32,280  | 38,921  | 43,130  | 84.5                         | 95.4  | 105.8 | 123.4 | 136.7 |
| Guam                    | 43     | 59      | 65      | 95      | 84      | 51.9                         | 69.7  | 75.0  | 120.0 | 106.1 |
| Puerto Rico             | 401    | 358     | 298     | 469     | 435     | 21.8                         | 19.3  | 16.0  | 25.6  | 23.7  |
| Virgin Islands          | 1      | NR      | 23      | 23      | 15      | 1.9                          | .     | 37.5  | 44.3  | 28.9  |
| OUTLYING AREAS          | 445    | 417     | 386     | 587     | 534     | 22.6                         | 21.5  | 19.2  | 29.9  | 27.2  |
| TOTAL                   | 89,043 | 107,088 | 120,816 | 138,544 | 157,838 | 69.7                         | 83.2  | 92.9  | 98.9  | 112.7 |

<sup>1</sup>Includes cases reported by Washington, D.C., and rates exclude population of states that did not report. Cases reported with unknown sex are not included in this table.

<sup>2</sup>The number of chlamydia cases occurring in the fourth quarter of 2000 for the State of Colorado was projected based on case counts from the first three quarters.

<sup>3</sup>New York City has been reporting chlamydia cases since 1984. However, the State of New York, with the exception of New York City, initiated chlamydia reporting during the year 2000. As a result, the number of chlamydia cases reported from 1997–2000 by the state of New York may be incomplete and the rate for New York State is underestimated. See Appendix.

\*NR = No report (see Appendix).

**Table 7. Chlamydia — Reported cases and rates in selected cities of >200,000 population, ranked by rates: United States, 2001**

| <i>Rank</i> <sup>1</sup> | <i>City*</i>       | <i>Cases</i> | <i>Rate per 100,000 Population</i> |
|--------------------------|--------------------|--------------|------------------------------------|
| 1                        | Richmond, VA       | 2,082        | 1,052.6                            |
| 2                        | Detroit, MI        | 11,552       | 942.0                              |
| 3                        | St Louis, MO       | 3,195        | 917.6                              |
| 4                        | Philadelphia, PA   | 13,628       | 898.0                              |
| 5                        | Milwaukee, WI      | 8,224        | 874.7                              |
| 6                        | Baltimore, MD      | 5,405        | 830.1                              |
| 7                        | Newark, NJ         | 2,408        | 800.6                              |
| 8                        | New Orleans, LA    | 3,871        | 798.7                              |
| 9                        | Atlanta, GA        | 6,426        | 787.5                              |
| 10                       | Indianapolis, IN   | 6,611        | 768.3                              |
| 11                       | Denver, CO         | 4,186        | 754.7                              |
| 12                       | Buffalo, NY        | 2,379        | 738.5                              |
| 13                       | Chicago, IL        | 22,420       | 726.4                              |
| 14                       | Minneapolis, MN    | 2,614        | 680.8                              |
| 15                       | Norfolk, VA        | 1,475        | 629.3                              |
| 16                       | Kansas City, MO    | 2,747        | 607.9                              |
| 17                       | Memphis, TN        | 5,418        | 603.7                              |
| 18                       | Oklahoma City, OK  | 2,444        | 574.6                              |
| 19                       | Washington, DC     | 3,286        | 574.4                              |
| 20                       | Albuquerque, NM    | 3,139        | 563.9                              |
| 21                       | Cincinnati, OH     | 4,594        | 543.5                              |
| 22                       | St Paul, MN        | 1,506        | 529.1                              |
| 23                       | Toledo, OH         | 2,244        | 493.1                              |
| 24                       | Boston, MA         | 2,935        | 490.8                              |
| 25                       | Corpus Christi, TX | 1,458        | 464.9                              |
| 26                       | Dallas, TX         | 10,249       | 461.9                              |
| 27                       | Jacksonville, FL   | 3,551        | 455.9                              |
| 28                       | Columbus, OH       | 4,850        | 453.7                              |
| 29                       | Portland, OR       | 2,355        | 451.9                              |
| 30                       | Birmingham, AL     | 2,957        | 446.6                              |
| 31                       | Tulsa, OK          | 1,720        | 436.2                              |
| 32                       | Rochester, NY      | 1,064        | 430.6                              |
| 33                       | San Antonio, TX    | 5,749        | 412.7                              |
| 34                       | Austin, TX         | 3,317        | 408.4                              |
| 35                       | Honolulu, HI       | 3,473        | 396.4                              |
| 36                       | San Francisco, CA  | 3,030        | 390.1                              |
| 37                       | Jersey City, NJ    | 893          | 371.2                              |
| 38                       | Omaha, NE          | 1,719        | 370.8                              |
| 39                       | New York City, NY  | 29,649       | 370.2                              |
| 40                       | Dayton, OH         | 2,066        | 369.5                              |
| 41                       | Los Angeles, CA    | 32,706       | 367.1                              |
| 42                       | Nashville, TN      | 2,086        | 366.0                              |
| 43                       | Sacramento, CA     | 4,442        | 363.1                              |
| 44                       | Oakland, CA        | 4,682        | 354.8                              |
| 45                       | El Paso, TX        | 2,356        | 346.7                              |
| 46                       | Cleveland, OH      | 4,811        | 345.1                              |
| 47                       | Houston, TX        | 11,289       | 332.0                              |
| 48                       | San Diego, CA      | 9,166        | 325.7                              |
| 49                       | Wichita, KS        | 1,465        | 323.5                              |
| 50                       | Tucson, AZ         | 2,700        | 320.0                              |
| 51                       | Des Moines, IA     | 1,122        | 299.5                              |
| 52                       | Phoenix, AZ        | 8,953        | 291.4                              |
| 53                       | Fort Worth, TX     | 4,142        | 286.4                              |
| 54                       | Louisville, KY     | 1,952        | 281.4                              |
| 55                       | Charlotte, NC      | 1,936        | 278.4                              |
| 56                       | Pittsburgh, PA     | 3,444        | 268.7                              |
| 57                       | Tampa, FL          | 2,535        | 253.8                              |
| 58                       | Seattle, WA        | 4,295        | 247.3                              |
| 59                       | San Jose, CA       | 4,118        | 244.7                              |
| 60                       | Akron, OH          | 1,162        | 214.0                              |
| 61                       | St Petersburg, FL  | 1,884        | 204.5                              |
| 62                       | Yonkers, NY        | 373          | 187.9                              |
| 63                       | Miami, FL          | 3,800        | 168.6                              |

\*Excludes outlying areas (San Juan, PR with 1,076 cases and rate of 105.5). See Appendix.

<sup>1</sup>Cities were ranked in descending order by rate, number of cases, and alphabetically by state.

**Table 8. Chlamydia — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001**

| City                           | Cases*  |         |         |         |         | Rates per 100,000 Population |       |         |         |         |
|--------------------------------|---------|---------|---------|---------|---------|------------------------------|-------|---------|---------|---------|
|                                | 1997    | 1998    | 1999    | 2000    | 2001    | 1997                         | 1998  | 1999    | 2000    | 2001    |
| Akron, OH                      | 852     | 859     | 841     | 990     | 1,162   | 160.3                        | 159.7 | 156.4   | 182.4   | 214.0   |
| Albuquerque, NM                | 1,635   | 1,715   | 1,674   | 2,368   | 3,139   | 310.8                        | 326.1 | 319.8   | 425.4   | 563.9   |
| Atlanta, GA                    | 4,208   | 5,276   | 5,572   | 5,558   | 6,426   | 582.4                        | 713.6 | 748.1   | 681.1   | 787.5   |
| Austin, TX                     | 2,977   | 3,030   | 2,795   | 3,113   | 3,317   | 429.2                        | 426.4 | 384.4   | 383.2   | 408.4   |
| Baltimore, MD                  | 6,066   | 5,663   | 5,286   | 5,433   | 5,405   | 922.9                        | 877.2 | 835.5   | 834.4   | 830.1   |
| Birmingham, AL                 | 2,372   | 2,476   | 2,209   | 3,601   | 2,957   | 360.1                        | 375.4 | 336.0   | 543.9   | 446.6   |
| Boston, MA                     | 2,450   | 2,588   | 2,680   | 3,229   | 2,935   | 439.5                        | 465.2 | 481.7   | 539.9   | 490.8   |
| Buffalo, NY                    | NR      | NR      | NR      | 722     | 2,379   | .                            | .     | .       | 224.1   | 738.5   |
| Charlotte, NC                  | 1,049   | 1,695   | 1,669   | 1,873   | 1,936   | 171.0                        | 268.7 | 257.4   | 269.3   | 278.4   |
| Chicago, IL                    | 15,168  | 17,023  | 18,125  | 19,792  | 22,420  | 520.5                        | 571.5 | 608.1   | 641.3   | 726.4   |
| Cincinnati, OH                 | 2,617   | 4,840   | 3,801   | 4,715   | 4,594   | 307.3                        | 571.2 | 452.3   | 557.8   | 543.5   |
| Cleveland, OH                  | 3,056   | 3,650   | 3,446   | 3,961   | 4,811   | 220.4                        | 264.4 | 251.2   | 284.2   | 345.1   |
| Columbus, OH                   | 3,133   | 3,854   | 3,997   | 4,298   | 4,850   | 308.0                        | 377.4 | 388.9   | 402.1   | 453.7   |
| Corpus Christi, TX             | 986     | 1,220   | 1,158   | 1,525   | 1,458   | 310.6                        | 385.7 | 367.1   | 486.2   | 464.9   |
| Dallas, TX                     | 7,990   | 8,893   | 9,355   | 9,976   | 10,249  | 394.9                        | 433.6 | 453.7   | 449.6   | 461.9   |
| Dayton, OH                     | 813     | 929     | 1,256   | 1,176   | 2,066   | 144.8                        | 166.4 | 222.0   | 210.4   | 369.5   |
| Denver, CO                     | 2,726   | 2,834   | 3,371   | 3,164   | 4,186   | 546.3                        | 567.9 | 674.5   | 570.5   | 754.7   |
| Des Moines, IA                 | 567     | 743     | 922     | 1,075   | 1,122   | 160.1                        | 206.5 | 252.8   | 287.0   | 299.5   |
| Detroit, MI                    | 6,622   | 7,351   | 7,753   | 9,989   | 11,552  | 608.0                        | 583.3 | 618.6   | 814.5   | 942.0   |
| El Paso, TX                    | 1,439   | 1,697   | 1,898   | 2,225   | 2,356   | 205.1                        | 241.4 | 270.4   | 327.4   | 346.7   |
| Fort Worth, TX                 | 2,402   | 4,089   | 3,752   | 4,214   | 4,142   | 181.0                        | 301.7 | 271.4   | 291.4   | 286.4   |
| Honolulu, HI                   | 1,488   | 2,205   | 2,631   | 2,932   | 3,473   | 171.1                        | 252.7 | 304.3   | 334.6   | 396.4   |
| Houston, TX                    | 10,756  | 11,561  | 10,511  | 12,213  | 11,289  | 340.6                        | 360.6 | 323.4   | 359.1   | 332.0   |
| Indianapolis, IN               | 3,693   | 4,584   | 4,641   | 5,506   | 6,611   | 453.9                        | 563.6 | 572.3   | 639.9   | 768.3   |
| Jacksonville, FL               | 2,402   | 1,913   | 2,703   | 3,501   | 3,551   | 327.9                        | 260.0 | 366.0   | 449.5   | 455.9   |
| Jersey City, NJ                | 553     | 678     | 724     | 624     | 893     | 253.9                        | 308.1 | 331.6   | 259.4   | 371.2   |
| Kansas City, MO                | 3,086   | 3,105   | 2,738   | 3,128   | 2,747   | 690.2                        | 687.0 | 606.3   | 692.2   | 607.9   |
| Los Angeles, CA                | 23,346  | 24,160  | 27,614  | 31,074  | 32,706  | 272.7                        | 280.2 | 316.2   | 348.8   | 367.1   |
| Louisville, KY                 | 1,598   | 1,253   | 1,447   | 1,656   | 1,952   | 238.3                        | 186.4 | 215.0   | 238.8   | 281.4   |
| Memphis, TN                    | 4,244   | 4,791   | 5,025   | 4,967   | 5,418   | 490.1                        | 551.4 | 575.6   | 553.4   | 603.7   |
| Miami, FL                      | 3,579   | 3,486   | 4,010   | 3,032   | 3,800   | 175.0                        | 162.0 | 184.3   | 134.6   | 168.6   |
| Milwaukee, WI                  | 5,121   | 7,758   | 7,641   | 9,018   | 8,224   | 563.4                        | 850.9 | 843.1   | 959.2   | 874.7   |
| Minneapolis, MN                | 2,473   | 2,555   | 2,584   | 2,652   | 2,614   | 645.1                        | 700.9 | 705.7   | 690.7   | 680.8   |
| Nashville, TN                  | 1,820   | 1,981   | 2,202   | 2,403   | 2,086   | 341.0                        | 371.0 | 415.4   | 421.7   | 366.0   |
| New Orleans, LA                | 2,869   | 3,331   | 3,651   | 3,817   | 3,871   | 611.6                        | 715.5 | 792.1   | 787.5   | 798.7   |
| New York City, NY <sup>2</sup> | 28,468  | 26,218  | 26,766  | 26,170  | 29,649  | 387.7                        | 353.3 | 360.3   | 326.8   | 370.2   |
| Newark, NJ                     | 1,669   | 1,725   | 1,881   | 1,567   | 2,408   | 586.5                        | 606.6 | 664.1   | 521.0   | 800.6   |
| Norfolk, VA                    | 899     | 954     | 920     | 1,093   | 1,475   | 391.9                        | 443.3 | 407.3   | 466.3   | 629.3   |
| Oakland, CA                    | 3,419   | 3,651   | 4,111   | 4,975   | 4,682   | 272.8                        | 285.3 | 317.7   | 377.0   | 354.8   |
| Oklahoma City, OK              | 1,013   | 2,008   | 1,768   | 2,060   | 2,444   | 229.9                        | 492.6 | 431.3   | 484.3   | 574.6   |
| Omaha, NE                      | 1,349   | 1,410   | 1,808   | 1,935   | 1,719   | 305.9                        | 317.7 | 405.1   | 417.4   | 370.8   |
| Philadelphia, PA               | 10,480  | 11,763  | 12,660  | 13,584  | 13,628  | 722.1                        | 819.0 | 893.1   | 895.1   | 898.0   |
| Phoenix, AZ                    | 6,580   | 7,549   | 7,660   | 7,987   | 8,953   | 244.0                        | 271.1 | 267.7   | 260.0   | 291.4   |
| Pittsburgh, PA                 | 2,879   | 2,980   | 2,879   | 2,885   | 3,444   | 224.8                        | 234.9 | 229.1   | 225.1   | 268.7   |
| Portland, OR                   | 1,844   | 2,128   | 2,018   | 2,306   | 2,355   | 374.2                        | 427.4 | 403.9   | 442.5   | 451.9   |
| Richmond, VA                   | 2,175   | 1,619   | 1,972   | 2,230   | 2,082   | 1,130.5                      | 833.8 | 1,039.5 | 1,127.5 | 1,052.6 |
| Rochester, NY                  | NR      | NR      | NR      | 115     | 1,064   | .                            | .     | .       | 46.5    | 430.6   |
| Sacramento, CA                 | 3,499   | 4,005   | 4,469   | 4,599   | 4,442   | 310.8                        | 350.0 | 377.3   | 375.9   | 363.1   |
| San Antonio, TX                | 4,838   | 5,909   | 5,731   | 5,871   | 5,749   | 363.1                        | 436.7 | 417.4   | 421.5   | 412.7   |
| San Diego, CA                  | 6,397   | 7,044   | 7,591   | 8,591   | 9,166   | 235.0                        | 253.3 | 269.1   | 305.3   | 325.7   |
| San Francisco, CA              | 2,243   | 2,616   | 2,718   | 3,093   | 3,030   | 306.3                        | 350.8 | 364.0   | 398.2   | 390.1   |
| San Jose, CA                   | 2,751   | 3,349   | 3,428   | 3,908   | 4,118   | 171.0                        | 204.1 | 208.1   | 232.3   | 244.7   |
| Seattle, WA                    | 3,174   | 3,486   | 3,949   | 4,495   | 4,295   | 194.4                        | 210.7 | 237.2   | 258.8   | 247.3   |
| St Louis, MO                   | 2,653   | 2,921   | 3,090   | 2,711   | 3,195   | 776.0                        | 860.8 | 925.3   | 778.6   | 917.6   |
| St Paul, MN                    | 1,112   | 1,233   | 1,349   | 1,639   | 1,506   | 402.8                        | 455.8 | 498.1   | 575.8   | 529.1   |
| St Petersburg, FL              | 1,789   | 1,692   | 1,760   | 1,834   | 1,884   | 205.2                        | 192.7 | 200.3   | 199.0   | 204.5   |
| Tampa, FL                      | 2,836   | 2,240   | 2,757   | 2,714   | 2,535   | 311.8                        | 242.1 | 293.1   | 271.7   | 253.8   |
| Toledo, OH                     | 528     | 780     | 1,043   | 1,646   | 2,244   | 117.0                        | 173.9 | 233.6   | 361.7   | 493.1   |
| Tucson, AZ                     | 1,888   | 1,610   | 1,908   | 1,786   | 2,700   | 242.0                        | 203.6 | 237.4   | 211.7   | 320.0   |
| Tulsa, OK                      | 793     | 1,782   | 1,636   | 1,770   | 1,720   | 205.5                        | 468.4 | 426.3   | 448.9   | 436.2   |
| Washington, DC                 | 3,069   | 3,182   | 2,720   | 3,205   | 3,286   | 580.2                        | 608.3 | 524.1   | 560.3   | 574.4   |
| Wichita, KS                    | 1,159   | 861     | 1,532   | 1,457   | 1,465   | 264.2                        | 192.2 | 339.2   | 321.7   | 323.5   |
| Yonkers, NY                    | NR      | NR      | NR      | 379     | 373     | .                            | .     | .       | 190.9   | 187.9   |
| U.S. CITY TOTAL <sup>1</sup>   | 235,660 | 258,501 | 269,806 | 296,125 | 318,308 | 341.9                        | 370.4 | 384.2   | 401.0   | 431.0   |
| San Juan, PR                   | 739     | 615     | 501     | 966     | 1,076   | 84.7                         | 58.8  | 47.6    | 94.7    | 105.5   |
| TOTAL                          | 236,399 | 259,116 | 270,307 | 297,091 | 319,384 | 338.7                        | 365.8 | 379.2   | 396.8   | 426.6   |

<sup>1</sup>Rates exclude population of cities that did not report. <sup>2</sup>New York City has been reporting chlamydia cases since 1984. However, the State of New York, with the exception of New York City, initiated chlamydia reporting during the year 2000. As a result, the number of chlamydia cases reported in 1997–2000 by the state of New York (including the cities of Buffalo, Rochester and Yonkers) may be incomplete and the rate for New York State is underestimated. See Appendix. \*NR = No report (see Appendix).

**Table 9. Chlamydia — Women – Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001**

| City                           | Cases*  |         |         |         |         | Rates per 100,000 Population |         |         |         |         |
|--------------------------------|---------|---------|---------|---------|---------|------------------------------|---------|---------|---------|---------|
|                                | 1997    | 1998    | 1999    | 2000    | 2001    | 1997                         | 1998    | 1999    | 2000    | 2001    |
| Akron, OH                      | 666     | 697     | 653     | 769     | 916     | 241.2                        | 249.1   | 233.1   | 273.2   | 325.5   |
| Albuquerque, NM                | 1,386   | 1,437   | 1,401   | 1,815   | 2,368   | 515.1                        | 532.6   | 521.4   | 637.3   | 831.5   |
| Atlanta, GA                    | 3,596   | 4,217   | 4,287   | 4,468   | 5,152   | 954.0                        | 1,090.7 | 1,101.3 | 1,078.5 | 1,243.6 |
| Austin, TX                     | 2,468   | 2,463   | 2,367   | 2,432   | 2,633   | 710.2                        | 689.4   | 647.6   | 613.6   | 664.3   |
| Baltimore, MD                  | 5,607   | 5,066   | 4,700   | 4,828   | 4,825   | 1,595.4                      | 1,470.5 | 1,393.0 | 1,389.5 | 1,388.6 |
| Birmingham, AL                 | 2,269   | 2,352   | 2,086   | 2,792   | 2,524   | 647.6                        | 668.6   | 595.2   | 797.8   | 721.2   |
| Boston, MA                     | 1,842   | 1,920   | 2,107   | 2,360   | 2,086   | 638.8                        | 665.9   | 731.6   | 762.2   | 673.7   |
| Buffalo, NY                    | NR      | NR      | NR      | 528     | 1,731   | .                            | .       | .       | 314.1   | 1,029.8 |
| Charlotte, NC                  | 576     | 1,395   | 1,373   | 1,498   | 1,484   | 181.5                        | 426.3   | 408.0   | 423.2   | 419.2   |
| Chicago, IL                    | 12,203  | 13,424  | 14,377  | 15,631  | 16,756  | 809.7                        | 867.6   | 928.2   | 982.0   | 1,052.6 |
| Cincinnati, OH                 | 2,349   | 4,122   | 3,211   | 3,938   | 3,740   | 524.9                        | 923.7   | 724.9   | 890.3   | 845.5   |
| Cleveland, OH                  | 2,672   | 3,173   | 2,955   | 3,183   | 3,635   | 364.3                        | 433.7   | 406.3   | 432.8   | 494.2   |
| Columbus, OH                   | 2,666   | 3,027   | 2,907   | 3,185   | 3,336   | 506.7                        | 571.6   | 545.0   | 579.4   | 606.9   |
| Corpus Christi, TX             | 802     | 1,031   | 999     | 1,292   | 1,233   | 495.9                        | 634.1   | 615.9   | 806.7   | 769.8   |
| Dallas, TX                     | 6,159   | 6,699   | 7,143   | 7,726   | 8,083   | 600.1                        | 642.4   | 681.6   | 695.6   | 727.7   |
| Dayton, OH                     | 756     | 729     | 834     | 863     | 1,595   | 259.1                        | 250.2   | 282.2   | 296.9   | 548.7   |
| Denver, CO                     | 2,076   | 2,146   | 2,468   | 2,190   | 2,962   | 809.8                        | 837.9   | 962.3   | 798.0   | 1,079.3 |
| Des Moines, IA                 | 430     | 581     | 660     | 789     | 814     | 233.4                        | 309.6   | 347.1   | 409.1   | 422.1   |
| Detroit, MI                    | 5,863   | 6,491   | 6,343   | 7,716   | 9,137   | 1,024.4                      | 978.8   | 961.0   | 1,209.4 | 1,432.2 |
| El Paso, TX                    | 1,263   | 1,421   | 1,599   | 1,881   | 1,936   | 349.9                        | 387.8   | 435.6   | 534.6   | 550.2   |
| Fort Worth, TX                 | 1,968   | 3,278   | 2,933   | 3,317   | 3,277   | 292.7                        | 477.7   | 419.6   | 454.2   | 448.8   |
| Honolulu, HI                   | 1,236   | 1,850   | 2,102   | 2,239   | 2,574   | 285.5                        | 423.8   | 484.8   | 514.0   | 590.9   |
| Houston, TX                    | 9,326   | 9,912   | 8,740   | 10,222  | 9,473   | 588.1                        | 612.8   | 533.4   | 598.9   | 555.0   |
| Indianapolis, IN               | 2,680   | 3,472   | 3,481   | 3,896   | 4,552   | 629.4                        | 814.3   | 818.2   | 876.6   | 1,024.2 |
| Jacksonville, FL               | 1,753   | 1,368   | 2,091   | 2,809   | 2,865   | 464.1                        | 359.9   | 546.9   | 700.3   | 714.3   |
| Jersey City, NJ                | 536     | 657     | 681     | 605     | 818     | 477.8                        | 577.2   | 603.0   | 494.2   | 668.2   |
| Kansas City, MO                | 2,779   | 2,785   | 2,413   | 2,763   | 2,396   | 1,190.7                      | 1,175.9 | 1,020.1 | 1,179.7 | 1,023.0 |
| Los Angeles, CA                | 17,911  | 18,930  | 21,564  | 23,056  | 24,358  | 417.6                        | 435.2   | 489.4   | 511.6   | 540.4   |
| Louisville, KY                 | 1,248   | 985     | 1,136   | 1,301   | 1,511   | 353.7                        | 277.8   | 319.8   | 359.4   | 417.4   |
| Memphis, TN                    | 3,325   | 3,786   | 4,020   | 3,943   | 4,378   | 734.0                        | 830.3   | 877.4   | 841.0   | 933.8   |
| Miami, FL                      | 2,884   | 2,799   | 3,282   | 2,449   | 3,079   | 271.8                        | 248.6   | 288.0   | 210.3   | 264.4   |
| Milwaukee, WI                  | 4,051   | 6,219   | 6,076   | 7,077   | 6,308   | 850.5                        | 1,298.3 | 1,271.8 | 1,445.5 | 1,288.4 |
| Minneapolis, MN                | 1,710   | 1,762   | 1,756   | 1,759   | 1,716   | 868.1                        | 938.6   | 931.3   | 902.4   | 880.4   |
| Nashville, TN                  | 1,308   | 1,426   | 1,628   | 1,758   | 1,537   | 467.7                        | 507.9   | 584.4   | 597.9   | 522.7   |
| New Orleans, LA                | 2,266   | 2,574   | 2,794   | 2,772   | 2,958   | 901.0                        | 1,029.3 | 1,129.3 | 1,076.2 | 1,148.4 |
| New York City, NY <sup>2</sup> | 25,706  | 23,449  | 23,896  | 22,663  | 25,118  | 662.8                        | 596.4   | 607.9   | 537.8   | 596.1   |
| Newark, NJ                     | 1,615   | 1,632   | 1,684   | 1,330   | 2,117   | 1,079.4                      | 1,090.5 | 1,130.3 | 843.4   | 1,342.4 |
| Norfolk, VA                    | 801     | 826     | 795     | 964     | 1,251   | 719.3                        | 754.7   | 727.4   | 841.4   | 1,091.9 |
| Oakland, CA                    | 2,715   | 2,942   | 3,212   | 3,851   | 3,562   | 427.1                        | 452.9   | 490.0   | 573.7   | 530.6   |
| Oklahoma City, OK              | 892     | 1,585   | 1,449   | 1,686   | 1,941   | 391.1                        | 747.8   | 680.5   | 770.0   | 886.4   |
| Omaha, NE                      | 1,107   | 1,139   | 1,437   | 1,516   | 1,346   | 486.2                        | 495.6   | 622.2   | 640.1   | 568.3   |
| Philadelphia, PA               | 9,300   | 10,182  | 10,479  | 10,724  | 10,833  | 1,196.5                      | 1,321.5 | 1,377.2 | 1,320.0 | 1,333.4 |
| Phoenix, AZ                    | 5,064   | 5,653   | 5,787   | 6,195   | 6,841   | 371.8                        | 401.2   | 399.9   | 403.4   | 445.5   |
| Pittsburgh, PA                 | 2,416   | 2,415   | 2,380   | 2,398   | 2,798   | 355.5                        | 358.2   | 356.2   | 355.4   | 414.7   |
| Portland, OR                   | 1,248   | 1,453   | 1,379   | 1,597   | 1,651   | 495.4                        | 571.4   | 540.5   | 606.7   | 627.3   |
| Richmond, VA                   | 1,931   | 1,452   | 1,713   | 1,900   | 1,752   | 1,837.7                      | 1,360.3 | 1,643.0 | 1,797.2 | 1,657.2 |
| Rochester, NY                  | NR      | NR      | NR      | 86      | 807     | .                            | .       | .       | 67.2    | 630.4   |
| Sacramento, CA                 | 2,750   | 3,069   | 3,452   | 3,391   | 3,279   | 477.0                        | 526.0   | 571.9   | 542.8   | 524.9   |
| San Antonio, TX                | 4,093   | 4,854   | 4,697   | 4,767   | 4,632   | 596.5                        | 692.0   | 661.0   | 666.3   | 647.5   |
| San Diego, CA                  | 4,733   | 5,394   | 5,839   | 6,371   | 6,510   | 350.8                        | 388.1   | 417.0   | 455.5   | 465.4   |
| San Francisco, CA              | 1,426   | 1,541   | 1,541   | 1,819   | 1,723   | 384.3                        | 409.3   | 408.9   | 476.3   | 451.2   |
| San Jose, CA                   | 2,135   | 2,594   | 2,636   | 2,948   | 3,017   | 268.0                        | 318.7   | 322.6   | 355.3   | 363.7   |
| Seattle, WA                    | 2,279   | 2,430   | 2,654   | 3,006   | 2,905   | 276.6                        | 289.5   | 314.5   | 344.5   | 332.9   |
| St Louis, MO                   | 2,442   | 2,630   | 2,736   | 2,362   | 2,787   | 1,314.7                      | 1,430.9 | 1,512.5 | 1,279.4 | 1,509.6 |
| St Paul, MN                    | 830     | 897     | 972     | 1,154   | 1,098   | 578.3                        | 635.4   | 687.3   | 782.6   | 744.6   |
| St Petersburg, FL              | 1,486   | 1,391   | 1,446   | 1,511   | 1,522   | 320.7                        | 299.0   | 310.9   | 313.1   | 315.4   |
| Tampa, FL                      | 2,371   | 1,851   | 2,380   | 2,319   | 2,112   | 509.5                        | 389.7   | 492.8   | 454.5   | 414.0   |
| Toledo, OH                     | 480     | 630     | 815     | 1,348   | 1,801   | 204.1                        | 269.0   | 349.4   | 570.5   | 762.2   |
| Tucson, AZ                     | 1,510   | 1,299   | 1,531   | 1,411   | 2,058   | 380.5                        | 321.3   | 372.6   | 327.2   | 477.3   |
| Tulsa, OK                      | 622     | 1,467   | 1,331   | 1,485   | 1,406   | 312.3                        | 744.0   | 670.1   | 731.4   | 692.4   |
| Washington, DC                 | 2,658   | 2,722   | 2,391   | 2,786   | 2,807   | 946.7                        | 978.9   | 866.4   | 920.4   | 927.3   |
| Wichita, KS                    | 915     | 665     | 1,218   | 1,134   | 1,166   | 409.6                        | 290.5   | 528.1   | 495.2   | 509.2   |
| Yonkers, NY                    | NR      | NR      | NR      | 327     | 326     | .                            | .       | .       | 315.7   | 314.8   |
| U.S. CITY TOTAL <sup>1</sup>   | 194,155 | 210,356 | 217,017 | 232,899 | 247,912 | 547.7                        | 584.0   | 599.1   | 615.4   | 655.1   |
| San Juan, PR                   | 580     | 445     | 385     | 761     | 901     | 120.9                        | 81.8    | 70.4    | 143.4   | 169.8   |
| TOTAL                          | 194,735 | 210,801 | 217,402 | 233,660 | 248,813 | 542.0                        | 576.5   | 591.2   | 608.9   | 648.4   |

<sup>1</sup>Rates exclude population of cities that did not report. Cases reported with unknown sex are not included in this table. <sup>2</sup>New York City has been reporting chlamydia cases since 1984. However, the State of New York, with the exception of New York City, initiated chlamydia reporting during the year 2000. As a result, the number of chlamydia cases reported 1997–2000 by the state of New York (including the cities of Buffalo, Rochester and Yonkers) may be incomplete and the rate for New York State is underestimated. See Appendix. \*NR = No report (see Appendix).

**Table 10. Chlamydia — Men — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001**

| City                           | Cases* |        |        |        |        | Rates per 100,000 Population |       |       |       |       |
|--------------------------------|--------|--------|--------|--------|--------|------------------------------|-------|-------|-------|-------|
|                                | 1997   | 1998   | 1999   | 2000   | 2001   | 1997                         | 1998  | 1999  | 2000  | 2001  |
| Akron, OH                      | 179    | 161    | 183    | 216    | 243    | 70.0                         | 62.4  | 71.0  | 82.6  | 92.9  |
| Albuquerque, NM                | 249    | 278    | 272    | 521    | 654    | 96.9                         | 108.5 | 106.8 | 191.6 | 240.5 |
| Atlanta, GA                    | 597    | 1,038  | 1,262  | 1,079  | 1,273  | 172.7                        | 294.3 | 354.9 | 268.6 | 316.9 |
| Austin, TX                     | 509    | 564    | 428    | 676    | 683    | 147.1                        | 159.6 | 118.4 | 162.5 | 164.2 |
| Baltimore, MD                  | 459    | 566    | 565    | 550    | 580    | 150.1                        | 188.0 | 191.3 | 181.1 | 191.0 |
| Birmingham, AL                 | 101    | 123    | 117    | 700    | 433    | 32.8                         | 40.0  | 38.1  | 224.3 | 138.7 |
| Boston, MA                     | 608    | 668    | 573    | 869    | 849    | 226.0                        | 249.2 | 213.5 | 301.3 | 294.4 |
| Buffalo, NY                    | NR     | NR     | NR     | 194    | 648    | .                            | .     | .     | 125.9 | 420.7 |
| Charlotte, NC                  | 174    | 300    | 296    | 375    | 452    | 58.8                         | 98.8  | 94.9  | 109.8 | 132.4 |
| Chicago, IL                    | 2,965  | 3,599  | 3,744  | 4,160  | 5,660  | 210.7                        | 251.4 | 261.5 | 278.4 | 378.7 |
| Cincinnati, OH                 | 247    | 688    | 552    | 748    | 818    | 61.1                         | 171.5 | 138.9 | 185.6 | 203.0 |
| Cleveland, OH                  | 365    | 463    | 469    | 748    | 1,145  | 55.9                         | 71.3  | 72.8  | 113.6 | 173.9 |
| Columbus, OH                   | 459    | 812    | 1,053  | 1,071  | 1,434  | 93.5                         | 165.2 | 213.0 | 206.2 | 276.1 |
| Corpus Christi, TX             | 184    | 188    | 158    | 233    | 225    | 118.1                        | 122.3 | 103.1 | 151.8 | 146.6 |
| Dallas, TX                     | 1,831  | 2,156  | 2,156  | 2,151  | 2,105  | 183.7                        | 213.9 | 212.6 | 194.1 | 189.9 |
| Dayton, OH                     | 54     | 198    | 415    | 302    | 460    | 20.0                         | 74.1  | 153.5 | 112.5 | 171.4 |
| Denver, CO                     | 645    | 676    | 898    | 974    | 1,219  | 265.9                        | 278.3 | 369.1 | 347.6 | 435.0 |
| Des Moines, IA                 | 137    | 162    | 262    | 286    | 307    | 80.6                         | 94.1  | 150.1 | 157.4 | 168.9 |
| Detroit, MI                    | 759    | 860    | 1,410  | 2,273  | 2,415  | 146.9                        | 144.0 | 237.6 | 386.3 | 410.4 |
| El Paso, TX                    | 176    | 273    | 296    | 343    | 420    | 51.7                         | 81.1  | 88.4  | 104.6 | 128.1 |
| Fort Worth, TX                 | 434    | 763    | 778    | 888    | 858    | 66.3                         | 114.0 | 113.8 | 124.0 | 119.8 |
| Honolulu, HI                   | 252    | 355    | 515    | 683    | 898    | 57.7                         | 81.4  | 119.5 | 155.0 | 203.9 |
| Houston, TX                    | 1,430  | 1,648  | 1,634  | 1,971  | 1,804  | 91.0                         | 103.7 | 101.4 | 116.4 | 106.5 |
| Indianapolis, IN               | 1,013  | 1,112  | 1,157  | 1,604  | 2,045  | 261.2                        | 287.3 | 300.1 | 385.6 | 491.6 |
| Jacksonville, FL               | 649    | 544    | 612    | 692    | 686    | 182.9                        | 153.0 | 171.8 | 183.2 | 181.6 |
| Jersey City, NJ                | 16     | 21     | 43     | 19     | 72     | 15.1                         | 19.8  | 40.8  | 16.1  | 60.9  |
| Kansas City, MO                | 307    | 320    | 325    | 365    | 351    | 143.7                        | 148.8 | 151.1 | 167.7 | 161.3 |
| Los Angeles, CA                | 5,373  | 5,230  | 6,020  | 8,000  | 8,307  | 125.8                        | 122.4 | 139.1 | 181.7 | 188.7 |
| Louisville, KY                 | 349    | 260    | 307    | 352    | 439    | 109.8                        | 81.9  | 96.6  | 106.2 | 132.4 |
| Memphis, TN                    | 919    | 1,005  | 1,005  | 1,024  | 1,040  | 222.5                        | 243.4 | 242.3 | 238.9 | 242.6 |
| Miami, FL                      | 695    | 685    | 717    | 583    | 721    | 70.7                         | 66.7  | 69.2  | 53.5  | 66.2  |
| Milwaukee, WI                  | 1,070  | 1,532  | 1,556  | 1,935  | 1,881  | 247.3                        | 354.1 | 363.1 | 429.5 | 417.5 |
| Minneapolis, MN                | 763    | 793    | 828    | 893    | 898    | 409.4                        | 448.5 | 466.2 | 472.4 | 475.0 |
| Nashville, TN                  | 512    | 555    | 574    | 645    | 549    | 201.6                        | 219.2 | 228.3 | 233.8 | 199.0 |
| New Orleans, LA                | 603    | 757    | 857    | 1,045  | 913    | 277.1                        | 351.3 | 401.4 | 460.2 | 402.0 |
| New York City, NY <sup>2</sup> | 2,762  | 2,669  | 2,846  | 3,377  | 4,477  | 79.7                         | 76.5  | 81.4  | 89.0  | 118.0 |
| Newark, NJ                     | 52     | 93     | 194    | 234    | 291    | 38.5                         | 69.0  | 144.5 | 163.5 | 203.4 |
| Norfolk, VA                    | 84     | 128    | 125    | 129    | 222    | 71.2                         | 121.0 | 107.2 | 107.7 | 185.3 |
| Oakland, CA                    | 704    | 698    | 759    | 1,075  | 1,080  | 114.0                        | 110.7 | 118.9 | 165.8 | 166.6 |
| Oklahoma City, OK              | 121    | 423    | 319    | 374    | 503    | 56.9                         | 216.2 | 161.9 | 181.2 | 243.8 |
| Omaha, NE                      | 237    | 270    | 370    | 416    | 373    | 111.1                        | 126.2 | 171.8 | 183.5 | 164.5 |
| Philadelphia, PA               | 1,180  | 1,581  | 2,181  | 2,860  | 2,795  | 175.1                        | 237.5 | 332.1 | 405.6 | 396.4 |
| Phoenix, AZ                    | 1,516  | 1,896  | 1,873  | 1,792  | 2,112  | 113.6                        | 137.9 | 132.4 | 116.6 | 137.5 |
| Pittsburgh, PA                 | 463    | 565    | 499    | 487    | 646    | 77.0                         | 95.1  | 84.8  | 80.2  | 106.4 |
| Portland, OR                   | 596    | 675    | 639    | 709    | 704    | 247.4                        | 277.1 | 261.4 | 274.9 | 273.0 |
| Richmond, VA                   | 234    | 167    | 259    | 329    | 329    | 268.0                        | 191.0 | 303.1 | 357.3 | 357.3 |
| Rochester, NY                  | NR     | NR     | NR     | 29     | 257    | .                            | .     | .     | 24.4  | 215.9 |
| Sacramento, CA                 | 725    | 907    | 987    | 1,171  | 1,101  | 132.0                        | 161.7 | 169.9 | 195.6 | 183.9 |
| San Antonio, TX                | 745    | 1,048  | 1,032  | 1,096  | 1,110  | 115.3                        | 160.8 | 155.8 | 161.8 | 163.8 |
| San Diego, CA                  | 1,477  | 1,583  | 1,704  | 2,072  | 2,232  | 107.5                        | 113.8 | 119.9 | 146.4 | 157.7 |
| San Francisco, CA              | 817    | 1,075  | 1,177  | 1,274  | 1,307  | 226.2                        | 291.1 | 318.2 | 322.7 | 331.0 |
| San Jose, CA                   | 607    | 717    | 761    | 937    | 1,065  | 74.7                         | 86.7  | 91.6  | 109.9 | 124.9 |
| Seattle, WA                    | 895    | 1,056  | 1,295  | 1,489  | 1,390  | 110.6                        | 129.5 | 157.7 | 172.2 | 160.8 |
| St Louis, MO                   | 211    | 291    | 354    | 349    | 408    | 135.1                        | 187.1 | 231.3 | 213.4 | 249.4 |
| St Paul, MN                    | 282    | 336    | 377    | 485    | 408    | 212.7                        | 259.8 | 291.3 | 353.5 | 297.4 |
| St Petersburg, FL              | 303    | 294    | 314    | 323    | 362    | 74.2                         | 71.2  | 76.0  | 73.6  | 82.5  |
| Tampa, FL                      | 465    | 353    | 377    | 395    | 423    | 104.7                        | 78.4  | 82.4  | 80.8  | 86.5  |
| Toledo, OH                     | 44     | 144    | 222    | 288    | 430    | 20.4                         | 67.2  | 104.1 | 131.6 | 196.6 |
| Tucson, AZ                     | 378    | 311    | 377    | 375    | 642    | 98.6                         | 80.5  | 96.0  | 90.9  | 155.6 |
| Tulsa, OK                      | 171    | 315    | 305    | 285    | 314    | 91.6                         | 171.8 | 164.7 | 149.0 | 164.2 |
| Washington, DC                 | 411    | 460    | 316    | 405    | 451    | 165.6                        | 187.7 | 130.0 | 150.4 | 167.4 |
| Wichita, KS                    | 244    | 196    | 314    | 323    | 299    | 113.3                        | 89.5  | 142.1 | 144.3 | 133.6 |
| Yonkers, NY                    | NR     | NR     | NR     | 52     | 47     | .                            | .     | .     | 54.8  | 49.5  |
| U.S. CITY TOTAL <sup>1</sup>   | 40,807 | 47,604 | 52,013 | 62,298 | 69,263 | 121.9                        | 141.0 | 153.0 | 173.0 | 192.4 |
| San Juan, PR                   | 159    | 170    | 116    | 205    | 175    | 40.5                         | 33.8  | 23.0  | 41.9  | 35.7  |
| TOTAL                          | 40,966 | 47,774 | 52,129 | 62,503 | 69,438 | 121.0                        | 139.4 | 151.1 | 171.3 | 190.3 |

<sup>1</sup>Rates exclude population of cities that did not report. Cases reported with unknown sex are not included in this table. <sup>2</sup>New York City has been reporting chlamydia cases since 1984. However, the State of New York, with the exception of New York City, initiated chlamydia reporting during the year 2000. As a result, the number of chlamydia cases reported 1997–2000 by the state of New York (including the cities of Buffalo, Rochester and Yonkers) may be incomplete and the rate for New York State is underestimated. See Appendix. \*NR = No report (see Appendix).

**Table 11. Chlamydia — Reported cases and rates per 100,000 population by age and sex: United States, 1997–2001**

| Year | Age Group | Cases   |         |         | Rates   |       |         |
|------|-----------|---------|---------|---------|---------|-------|---------|
|      |           | Total   | Male    | Female  | Total   | Male  | Female  |
| 1997 | 10-14     | 12,625  | 585     | 12,039  | 66.5    | 6.0   | 130.0   |
|      | 15-19     | 218,287 | 24,032  | 194,256 | 1,147.7 | 245.2 | 2,107.5 |
|      | 20-24     | 177,542 | 31,073  | 146,469 | 1,016.5 | 346.9 | 1,721.2 |
|      | 25-29     | 69,599  | 15,651  | 53,948  | 370.0   | 165.8 | 575.8   |
|      | 30-34     | 28,818  | 7,889   | 20,929  | 139.4   | 76.5  | 201.8   |
|      | 35-39     | 13,509  | 4,165   | 9,345   | 59.9    | 37.0  | 82.7    |
|      | 40-44     | 5,855   | 1,969   | 3,886   | 27.5    | 18.6  | 36.2    |
|      | 45-54     | 3,810   | 1,445   | 2,365   | 11.4    | 8.8   | 13.8    |
|      | 55-64     | 860     | 360     | 500     | 4.0     | 3.5   | 4.4     |
|      | 65+       | 1,422   | 304     | 1,118   | 4.2     | 2.2   | 5.6     |
|      | TOTAL     | 534,774 | 88,167  | 446,607 | 200.4   | 67.5  | 327.8   |
| 1998 | 10-14     | 14,011  | 713     | 13,298  | 72.8    | 7.2   | 141.7   |
|      | 15-19     | 247,339 | 28,545  | 218,794 | 1,265.9 | 284.2 | 2,304.6 |
|      | 20-24     | 204,567 | 37,123  | 167,444 | 1,157.4 | 412.7 | 1,929.5 |
|      | 25-29     | 79,872  | 18,831  | 61,041  | 429.7   | 203.6 | 653.5   |
|      | 30-34     | 31,830  | 9,131   | 22,700  | 157.7   | 91.2  | 223.0   |
|      | 35-39     | 15,622  | 5,132   | 10,490  | 69.0    | 45.6  | 92.3    |
|      | 40-44     | 6,630   | 2,408   | 4,221   | 30.3    | 22.2  | 38.2    |
|      | 45-54     | 4,114   | 1,654   | 2,459   | 11.9    | 9.8   | 13.9    |
|      | 55-64     | 907     | 396     | 512     | 4.0     | 3.7   | 4.3     |
|      | 65+       | 1,228   | 294     | 935     | 3.6     | 2.1   | 4.6     |
|      | TOTAL     | 608,490 | 104,912 | 503,578 | 225.1   | 79.5  | 364.2   |
| 1999 | 10-14     | 13,870  | 824     | 13,046  | 71.0    | 8.2   | 136.8   |
|      | 15-19     | 259,742 | 32,366  | 227,376 | 1,315.3 | 318.8 | 2,369.3 |
|      | 20-24     | 228,069 | 43,011  | 185,058 | 1,265.3 | 468.4 | 2,092.8 |
|      | 25-29     | 88,114  | 21,548  | 66,566  | 483.9   | 238.0 | 727.2   |
|      | 30-34     | 35,248  | 10,289  | 24,959  | 178.7   | 105.3 | 250.7   |
|      | 35-39     | 17,269  | 5,957   | 11,312  | 76.6    | 53.1  | 99.9    |
|      | 40-44     | 7,606   | 2,987   | 4,619   | 34.2    | 27.1  | 41.1    |
|      | 45-54     | 4,661   | 2,036   | 2,625   | 13.0    | 11.6  | 14.3    |
|      | 55-64     | 1,006   | 480     | 526     | 4.3     | 4.3   | 4.3     |
|      | 65+       | 915     | 302     | 613     | 2.6     | 2.1   | 3.0     |
|      | TOTAL     | 658,711 | 120,468 | 538,243 | 241.6   | 90.4  | 386.1   |
| 2000 | 10-14     | 14,468  | 931     | 13,537  | 70.5    | 8.9   | 135.3   |
|      | 15-19     | 266,583 | 35,415  | 231,167 | 1,318.4 | 340.8 | 2,351.9 |
|      | 20-24     | 249,360 | 50,103  | 199,257 | 1,314.9 | 517.2 | 2,148.0 |
|      | 25-29     | 94,263  | 24,507  | 69,756  | 486.4   | 250.1 | 727.9   |
|      | 30-34     | 39,509  | 12,216  | 27,292  | 192.6   | 118.4 | 267.9   |
|      | 35-39     | 18,935  | 6,791   | 12,144  | 83.4    | 60.0  | 106.6   |
|      | 40-44     | 8,442   | 3,318   | 5,123   | 37.6    | 29.8  | 45.3    |
|      | 45-54     | 5,601   | 2,499   | 3,102   | 14.9    | 13.5  | 16.2    |
|      | 55-64     | 1,110   | 494     | 617     | 4.6     | 4.2   | 4.9     |
|      | 65+       | 997     | 339     | 658     | 2.8     | 2.4   | 3.2     |
|      | TOTAL     | 701,339 | 137,233 | 564,106 | 249.2   | 99.4  | 393.5   |
| 2001 | 10-14     | 15,031  | 1,042   | 13,989  | 73.2    | 9.9   | 139.8   |
|      | 15-19     | 288,333 | 39,064  | 249,269 | 1,426.0 | 375.9 | 2,536.1 |
|      | 20-24     | 285,589 | 58,597  | 226,992 | 1,506.0 | 604.9 | 2,447.0 |
|      | 25-29     | 106,914 | 27,896  | 79,018  | 551.6   | 284.7 | 824.6   |
|      | 30-34     | 45,255  | 14,493  | 30,763  | 220.6   | 140.4 | 301.9   |
|      | 35-39     | 21,516  | 7,953   | 13,563  | 94.8    | 70.3  | 119.1   |
|      | 40-44     | 9,940   | 4,124   | 5,816   | 44.3    | 37.1  | 51.4    |
|      | 45-54     | 6,415   | 2,943   | 3,472   | 17.0    | 15.9  | 18.1    |
|      | 55-64     | 1,282   | 638     | 644     | 5.3     | 5.5   | 5.1     |
|      | 65+       | 919     | 313     | 606     | 2.6     | 2.2   | 2.9     |
|      | TOTAL     | 783,127 | 157,623 | 625,504 | 278.3   | 114.2 | 436.3   |

NOTE: This table should be used only for age comparisons. This is because, if age was not specified, cases were prorated according to the distribution of cases for which age was known. For 1997, Delaware did not report age for most chlamydia cases and was excluded from the case counts and the U.S. population denominators. Differences between total cases from this table and others in the report are due to different reporting forms and above listed exclusions. The 0 to 9 year age group is not shown because some of these may not be due to sexual transmission; however, they are included in the totals.

This page intentionally left blank.

Table 12A. Chlamydia — Reported cases by age, sex, and race/ethnicity: United States, 1997–2001

| Age Group | Total   |         |         | White, Non-Hispanic |        |         | Black, Non-Hispanic |         |         | Hispanic |        |         | Asian/Pacific Islander |       |        | American Indian/<br>Alaska Native |       |        |       |
|-----------|---------|---------|---------|---------------------|--------|---------|---------------------|---------|---------|----------|--------|---------|------------------------|-------|--------|-----------------------------------|-------|--------|-------|
|           | Total   | Male    | Female  | Total               | Male   | Female  | Total               | Male    | Female  | Total    | Male   | Female  | Total                  | Male  | Female | Total                             | Male  | Female |       |
| 1997      | 10-14   | 8,969   | 437     | 8,532               | 2,578  | 70      | 2,508               | 4,525   | 235     | 4,291    | 1,509  | 115     | 1,394                  | 118   | 9      | 109                               | 238   | 8      | 230   |
|           | 15-19   | 157,306 | 18,940  | 138,366             | 52,237 | 4,312   | 47,925              | 72,707  | 10,373  | 62,333   | 27,022 | 3,676   | 23,346                 | 2,201 | 275    | 1,926                             | 3,139 | 303    | 2,836 |
|           | 20-24   | 129,875 | 25,181  | 104,694             | 41,533 | 6,629   | 34,904              | 56,680  | 12,882  | 43,798   | 26,545 | 4,892   | 21,653                 | 2,379 | 418    | 1,961                             | 2,738 | 360    | 2,378 |
|           | 25-29   | 51,350  | 12,578  | 38,772              | 15,002 | 3,243   | 11,758              | 21,495  | 6,360   | 15,135   | 12,459 | 2,575   | 9,884                  | 1,149 | 233    | 916                               | 1,245 | 168    | 1,078 |
|           | 30-34   | 21,105  | 6,253   | 14,853              | 5,837  | 1,582   | 4,255               | 8,653   | 3,191   | 5,462    | 5,433  | 1,249   | 4,184                  | 558   | 139    | 419                               | 624   | 92     | 533   |
|           | 35-39   | 9,764   | 3,246   | 6,518               | 2,902  | 869     | 2,033               | 4,011   | 1,642   | 2,369    | 2,232  | 617     | 1,615                  | 318   | 57     | 261                               | 302   | 62     | 240   |
|           | 40-44   | 4,208   | 1,516   | 2,693               | 1,317  | 437     | 880                 | 1,706   | 779     | 927      | 907    | 251     | 656                    | 148   | 33     | 115                               | 130   | 15     | 111   |
|           | 45-54   | 2,634   | 1,115   | 1,520               | 859    | 368     | 492                 | 1,017   | 530     | 487      | 564    | 168     | 396                    | 111   | 38     | 73                                | 83    | 11     | 71    |
|           | 55-64   | 562     | 267     | 295                 | 179    | 78      | 101                 | 229     | 123     | 107      | 114    | 53      | 62                     | 16    | 3      | 13                                | 23    | 10     | 13    |
|           | 65+     | 1,061   | 240     | 821                 | 368    | 76      | 292                 | 441     | 109     | 332      | 196    | 47      | 149                    | 20    | 5      | 15                                | 37    | 3      | 34    |
| TOTAL     | 388,528 | 70,296  | 318,232 | 123,314             | 17,804 | 105,510 | 172,175             | 36,447  | 135,728 | 77,388   | 13,786 | 63,602  | 7,057                  | 1,222 | 5,834  | 8,595                             | 1,037 | 7,558  |       |
| 1998      | 10-14   | 11,223  | 617     | 10,605              | 2,967  | 90      | 2,878               | 6,188   | 376     | 5,812    | 1,641  | 128     | 1,513                  | 137   | 11     | 127                               | 289   | 13     | 276   |
|           | 15-19   | 199,119 | 24,352  | 174,767             | 63,688 | 5,206   | 58,482              | 97,844  | 13,952  | 83,892   | 30,569 | 4,380   | 26,189                 | 3,010 | 361    | 2,649                             | 4,008 | 453    | 3,555 |
|           | 20-24   | 164,920 | 31,692  | 133,228             | 50,696 | 8,197   | 42,499              | 77,651  | 16,481  | 61,170   | 30,193 | 6,008   | 24,185                 | 3,107 | 524    | 2,583                             | 3,273 | 483    | 2,790 |
|           | 25-29   | 64,316  | 15,979  | 48,337              | 17,503 | 3,936   | 13,567              | 29,671  | 8,363   | 21,308   | 14,137 | 3,154   | 10,983                 | 1,627 | 334    | 1,293                             | 1,378 | 191    | 1,187 |
|           | 30-34   | 25,578  | 7,711   | 17,867              | 6,611  | 2,025   | 4,586               | 11,540  | 3,961   | 7,578    | 5,964  | 1,484   | 4,480                  | 740   | 152    | 588                               | 723   | 88     | 635   |
|           | 35-39   | 12,564  | 4,367   | 8,197               | 3,370  | 1,075   | 2,295               | 5,784   | 2,377   | 3,407    | 2,598  | 710     | 1,888                  | 433   | 124    | 309                               | 380   | 81     | 298   |
|           | 40-44   | 5,297   | 2,029   | 3,268               | 1,521  | 570     | 952                 | 2,421   | 1,135   | 1,286    | 974    | 247     | 727                    | 201   | 41     | 160                               | 179   | 36     | 143   |
|           | 45-54   | 3,172   | 1,340   | 1,832               | 996    | 430     | 566                 | 1,405   | 725     | 680      | 534    | 135     | 399                    | 111   | 37     | 74                                | 126   | 13     | 113   |
|           | 55-64   | 661     | 305     | 356                 | 171    | 82      | 89                  | 320     | 174     | 147      | 116    | 34      | 82                     | 29    | 9      | 20                                | 24    | 6      | 18    |
|           | 65+     | 1,032   | 246     | 786                 | 299    | 86      | 213                 | 550     | 119     | 430      | 147    | 36      | 111                    | 22    | 5      | 17                                | 15    | 0      | 15    |
| TOTAL     | 489,760 | 89,183  | 400,577 | 148,314             | 21,851 | 126,463 | 234,279             | 47,912  | 186,367 | 87,276   | 16,438 | 70,838  | 9,448                  | 1,606 | 7,843  | 10,443                            | 1,377 | 9,065  |       |
| 1999      | 10-14   | 12,553  | 752     | 11,801              | 3,180  | 114     | 3,066               | 7,050   | 449     | 6,601    | 1,885  | 163     | 1,721                  | 159   | 12     | 147                               | 279   | 13     | 266   |
|           | 15-19   | 232,381 | 29,730  | 202,651             | 72,649 | 6,302   | 66,347              | 116,293 | 17,281  | 99,012   | 35,455 | 5,184   | 30,271                 | 3,601 | 447    | 3,154                             | 4,382 | 516    | 3,867 |
|           | 20-24   | 201,730 | 39,032  | 162,698             | 61,460 | 10,419  | 51,041              | 96,754  | 20,598  | 76,156   | 36,102 | 6,894   | 29,207                 | 3,879 | 629    | 3,250                             | 3,536 | 492    | 3,044 |
|           | 25-29   | 77,066  | 19,369  | 57,697              | 20,236 | 4,671   | 15,565              | 36,134  | 10,266  | 25,868   | 17,025 | 3,704   | 13,321                 | 2,084 | 473    | 1,611                             | 1,587 | 256    | 1,331 |
|           | 30-34   | 30,339  | 9,169   | 21,170              | 7,427  | 2,256   | 5,170               | 13,979  | 4,832   | 9,147    | 7,316  | 1,741   | 5,575                  | 929   | 205    | 724                               | 688   | 135    | 553   |
|           | 35-39   | 14,823  | 5,311   | 9,511               | 3,926  | 1,397   | 2,528               | 6,773   | 2,887   | 3,886    | 3,264  | 823     | 2,441                  | 470   | 121    | 349                               | 389   | 83     | 307   |
|           | 40-44   | 6,458   | 2,683   | 3,775               | 1,834  | 776     | 1,058               | 2,917   | 1,448   | 1,468    | 1,262  | 341     | 921                    | 246   | 77     | 169                               | 200   | 41     | 159   |
|           | 45-54   | 3,948   | 1,804   | 2,144               | 1,098  | 517     | 580                 | 1,746   | 969     | 777      | 787    | 228     | 560                    | 171   | 60     | 110                               | 146   | 30     | 116   |
|           | 55-64   | 818     | 416     | 402                 | 239    | 152     | 87                  | 373     | 194     | 179      | 129    | 44      | 85                     | 42    | 11     | 31                                | 34    | 15     | 20    |
|           | 65+     | 775     | 264     | 511                 | 255    | 98      | 157                 | 300     | 104     | 196      | 113    | 24      | 88                     | 28    | 15     | 13                                | 80    | 23     | 57    |
| TOTAL     | 582,845 | 109,127 | 473,718 | 172,815             | 26,857 | 145,958 | 283,370             | 59,335  | 224,035 | 103,667  | 19,264 | 84,403  | 11,648                 | 2,063 | 9,585  | 11,345                            | 1,609 | 9,736  |       |
| 2000      | 10-14   | 13,081  | 865     | 12,216              | 3,140  | 110     | 3,031               | 7,428   | 536     | 6,892    | 2,044  | 194     | 1,850                  | 180   | 13     | 167                               | 288   | 12     | 276   |
|           | 15-19   | 240,404 | 32,329  | 208,075             | 74,657 | 6,965   | 67,691              | 117,722 | 18,296  | 99,426   | 39,526 | 5,986   | 33,540                 | 3,865 | 484    | 3,381                             | 4,634 | 597    | 4,037 |
|           | 20-24   | 224,162 | 45,293  | 178,869             | 67,922 | 12,108  | 55,814              | 104,067 | 22,997  | 81,070   | 43,525 | 8,741   | 34,785                 | 4,379 | 820    | 3,559                             | 4,268 | 627    | 3,641 |
|           | 25-29   | 83,755  | 21,967  | 61,788              | 21,679 | 5,274   | 16,406              | 37,556  | 11,151  | 26,404   | 20,619 | 4,694   | 15,925                 | 2,117 | 535    | 1,582                             | 1,784 | 313    | 1,470 |
|           | 30-34   | 34,614  | 10,831  | 23,783              | 8,389  | 2,523   | 5,867               | 15,044  | 5,620   | 9,424    | 9,168  | 2,237   | 6,931                  | 1,141 | 270    | 871                               | 872   | 181    | 690   |
|           | 35-39   | 16,584  | 6,027   | 10,557              | 4,249  | 1,621   | 2,628               | 7,423   | 3,105   | 4,318    | 3,782  | 1,024   | 2,758                  | 633   | 172    | 461                               | 497   | 105    | 393   |
|           | 40-44   | 7,398   | 2,992   | 4,407               | 2,090  | 862     | 1,228               | 3,234   | 1,512   | 1,723    | 1,544  | 468     | 1,076                  | 283   | 93     | 190                               | 247   | 57     | 189   |
|           | 45-54   | 4,833   | 2,235   | 2,598               | 1,385  | 689     | 696                 | 2,068   | 1,140   | 927      | 968    | 279     | 689                    | 231   | 86     | 145                               | 183   | 41     | 141   |
|           | 55-64   | 937     | 442     | 495                 | 313    | 167     | 146                 | 372     | 193     | 178      | 153    | 46      | 107                    | 54    | 22     | 32                                | 45    | 14     | 31    |
|           | 65+     | 855     | 307     | 549                 | 295    | 114     | 181                 | 378     | 131     | 247      | 137    | 39      | 99                     | 31    | 21     | 10                                | 14    | 2      | 12    |
| TOTAL     | 628,449 | 123,826 | 504,623 | 184,555             | 30,554 | 154,001 | 296,248             | 64,943  | 231,306 | 121,849  | 23,840 | 98,009  | 12,932                 | 2,522 | 10,410 | 12,865                            | 1,967 | 10,898 |       |
| 2001      | 10-14   | 13,028  | 889     | 12,139              | 3,203  | 122     | 3,081               | 7,271   | 523     | 6,748    | 2,176  | 225     | 1,951                  | 134   | 7      | 127                               | 245   | 12     | 233   |
|           | 15-19   | 254,176 | 34,931  | 219,244             | 79,923 | 7,591   | 72,331              | 122,896 | 19,374  | 103,522  | 42,630 | 6,852   | 35,778                 | 3,907 | 514    | 3,393                             | 4,820 | 601    | 4,220 |
|           | 20-24   | 252,425 | 52,857  | 199,568             | 79,134 | 14,649  | 64,485              | 115,191 | 26,365  | 88,827   | 49,029 | 10,255  | 38,774                 | 4,815 | 905    | 3,910                             | 4,255 | 683    | 3,572 |
|           | 25-29   | 93,776  | 25,080  | 68,696              | 24,529 | 6,214   | 18,315              | 41,444  | 12,463  | 28,981   | 23,461 | 5,493   | 17,968                 | 2,364 | 536    | 1,828                             | 1,978 | 373    | 1,605 |
|           | 30-34   | 39,053  | 12,830  | 26,224              | 9,779  | 3,137   | 6,642               | 16,909  | 6,553   | 10,356   | 10,347 | 2,698   | 7,649                  | 1,140 | 291    | 848                               | 878   | 150    | 728   |
|           | 35-39   | 18,453  | 6,995   | 11,458              | 4,814  | 1,909   | 2,905               | 8,034   | 3,577   | 4,457    | 4,478  | 1,193   | 3,285                  | 639   | 213    | 426                               | 488   | 102    | 385   |
|           | 40-44   | 8,531   | 3,640   | 4,891               | 2,369  | 1,057   | 1,311               | 3,795   | 1,904   | 1,892    | 1,833  | 536     | 1,297                  | 286   | 85     | 202                               | 247   | 59     | 189   |
|           | 45-54   | 5,479   | 2,594   | 2,884               | 1,631  | 831     | 800                 | 2,492   | 1,352   | 1,140    | 962    | 299     | 663                    | 209   | 61     | 149                               | 184   | 52     | 132   |
|           | 55-64   | 1,088   | 569     | 519                 | 371    | 191     | 179                 | 479     | 291     | 188      | 169    | 62      | 107                    | 44    | 17     | 28                                | 24    | 8      | 17    |
|           | 65+     | 748     | 272     | 476                 | 199    | 63      | 136                 | 371     | 149     | 222      | 143    | 43      | 100                    | 29    | 13     | 16                                | 6     | 4      | 2     |
| TOTAL     | 688,385 | 141,138 | 547,247 | 206,348             | 35,882 | 170,467 | 319,667             | 72,769  | 246,898 | 135,617  | 27,792 | 107,824 | 13,590                 | 2,646 | 10,943 | 13,164                            | 2,049 | 11,115 |       |

NOTE: These tables should be used only for race/ethnicity comparisons, not for age, sex, or overall totals. This is because, if age or race/ethnicity was not specified, cases were prorated according to the distribution of cases for which these variables were specified. For the following years the states listed did not report age and/or race/ethnicity for most cases and were excluded: 1997 (CO, DE, DC, GA, MD, MI, MS, NJ, NY, OH, SC); 1998 (CO, DC, MI, NJ, NY, OH, SC); 1999 (CO, DC, MI, NJ, NY); 2000 (CO, DC, MI, NY); 2001 (CO, DC, MD, NJ, NY). Cases and population denominators have been excluded for these states/areas. Differences between total cases from this table and others in the report are due to different reporting forms and above listed exclusions. The 0 to 9 year age group is not shown because some of these may not be due to sexual transmission; however, they are included in the totals.

**Table 12B. Chlamydia — Reported rates per 100,000 population by age, sex, and race/ethnicity: United States, 1997–2001**

| Age Group | Total   |       |         | White, Non-Hispanic |       |         | Black, Non-Hispanic |         |         | Hispanic |       |         | Asian/Pacific Islander |       |         | American Indian/<br>Alaska Native |       |         |
|-----------|---------|-------|---------|---------------------|-------|---------|---------------------|---------|---------|----------|-------|---------|------------------------|-------|---------|-----------------------------------|-------|---------|
|           | Total   | Male  | Female  | Total               | Male  | Female  | Total               | Male    | Female  | Total    | Male  | Female  | Total                  | Male  | Female  | Total                             | Male  | Female  |
| 10-14     | 63.7    | 6.0   | 124.3   | 27.2                | 1.4   | 54.4    | 259.8               | 26.5    | 500.6   | 71.4     | 10.6  | 135.3   | 20.8                   | 3.1   | 39.2    | 130.6                             | 8.4   | 256.2   |
| 15-19     | 1,115.2 | 260.1 | 2,027.5 | 551.6               | 88.5  | 1,042.7 | 4,130.1             | 1,157.0 | 7,216.1 | 1,246.3  | 318.9 | 2,299.6 | 407.3                  | 100.5 | 722.0   | 1,895.0                           | 364.8 | 3,433.9 |
| 20-24     | 1,004.1 | 377.7 | 1,670.2 | 486.0               | 151.6 | 836.1   | 3,704.3             | 1,690.3 | 5,702.9 | 1,225.6  | 412.5 | 2,209.1 | 428.6                  | 150.4 | 708.1   | 1,984.7                           | 518.7 | 3,470.3 |
| 25-29     | 371.9   | 180.6 | 566.4   | 160.0               | 69.3  | 250.6   | 1,434.3             | 882.1   | 1,946.4 | 582.2    | 218.8 | 1,025.9 | 174.4                  | 74.2  | 265.6   | 902.1                             | 237.3 | 1,598.6 |
| 30-34     | 140.1   | 82.9  | 197.5   | 55.5                | 30.2  | 80.7    | 549.6               | 428.9   | 657.9   | 246.4    | 105.2 | 411.1   | 87.1                   | 45.8  | 124.4   | 468.9                             | 138.6 | 795.0   |
| 35-39     | 59.3    | 39.3  | 79.3    | 24.1                | 14.4  | 33.8    | 242.5               | 209.9   | 271.8   | 112.4    | 58.8  | 172.5   | 50.3                   | 18.8  | 79.0    | 221.7                             | 92.6  | 345.6   |
| 40-44     | 27.0    | 19.5  | 34.4    | 11.2                | 7.4   | 15.0    | 113.4               | 109.9   | 116.5   | 56.0     | 29.9  | 84.0    | 24.7                   | 11.8  | 36.0    | 104.4                             | 25.8  | 177.2   |
| 45-54     | 10.8    | 9.3   | 12.2    | 4.5                 | 3.9   | 5.1     | 49.8                | 56.7    | 43.9    | 26.8     | 16.0  | 37.6    | 12.6                   | 9.3   | 15.5    | 45.3                              | 13.0  | 75.3    |
| 55-64     | 3.5     | 3.5   | 3.6     | 1.4                 | 1.3   | 1.5     | 18.0                | 22.1    | 14.8    | 9.5      | 9.3   | 9.7     | 3.1                    | 1.2   | 4.7     | 21.2                              | 20.0  | 22.1    |
| 65+       | 4.2     | 2.3   | 5.6     | 1.7                 | 0.9   | 2.3     | 26.8                | 16.8    | 33.2    | 14.4     | 8.1   | 19.2    | 3.5                    | 2.3   | 4.4     | 29.9                              | 5.3   | 48.0    |
| TOTAL     | 198.0   | 72.9  | 318.6   | 86.2                | 25.4  | 144.4   | 872.3               | 387.1   | 1,315.0 | 318.2    | 109.7 | 541.2   | 95.6                   | 34.4  | 152.2   | 489.0                             | 120.0 | 845.5   |
| 10-14     | 73.0    | 7.8   | 141.4   | 29.2                | 1.7   | 58.3    | 284.6               | 34.1    | 542.8   | 73.0     | 11.1  | 137.8   | 22.3                   | 3.4   | 42.2    | 154.4                             | 13.9  | 299.2   |
| 15-19     | 1,271.2 | 302.0 | 2,299.3 | 615.8               | 97.7  | 1,166.4 | 4,406.3             | 1,235.1 | 7,690.1 | 1,320.8  | 362.6 | 2,366.4 | 492.1                  | 116.5 | 877.4   | 2,284.4                           | 515.9 | 4,059.1 |
| 20-24     | 1,163.9 | 438.0 | 1,921.5 | 545.0               | 172.0 | 937.0   | 4,046.3             | 1,733.8 | 6,316.1 | 1,356.8  | 518.2 | 2,268.7 | 534.9                  | 181.4 | 884.6   | 2,291.4                           | 673.5 | 3,921.0 |
| 25-29     | 434.5   | 216.3 | 651.9   | 176.3               | 79.2  | 273.5   | 1,582.1             | 933.2   | 2,175.9 | 654.2    | 279.9 | 1,062.4 | 233.8                  | 103.4 | 347.2   | 960.0                             | 260.7 | 1,690.2 |
| 30-34     | 160.1   | 97.1  | 222.3   | 60.3                | 37.0  | 83.5    | 592.2               | 434.2   | 731.3   | 267.5    | 127.4 | 420.7   | 104.7                  | 46.2  | 155.5   | 537.5                             | 131.5 | 942.7   |
| 35-39     | 70.1    | 48.9  | 91.2    | 26.1                | 16.6  | 35.7    | 278.7               | 244.2   | 309.1   | 124.5    | 65.7  | 187.7   | 61.0                   | 36.8  | 83.1    | 270.3                             | 117.5 | 419.2   |
| 40-44     | 30.6    | 23.6  | 37.5    | 11.8                | 8.8   | 14.8    | 125.1               | 125.1   | 125.2   | 56.6     | 28.2  | 86.1    | 30.0                   | 13.1  | 45.1    | 136.8                             | 56.5  | 212.0   |
| 45-54     | 11.6    | 10.0  | 13.2    | 4.7                 | 4.1   | 5.3     | 52.9                | 59.8    | 47.1    | 23.7     | 12.2  | 34.8    | 11.2                   | 8.1   | 13.8    | 64.9                              | 13.9  | 111.9   |
| 55-64     | 3.7     | 3.6   | 3.8     | 1.2                 | 1.2   | 1.2     | 20.1                | 25.1    | 16.3    | 9.0      | 5.6   | 12.0    | 5.1                    | 3.5   | 6.5     | 21.0                              | 11.3  | 29.5    |
| 65+       | 3.8     | 2.2   | 4.9     | 1.3                 | 0.9   | 1.6     | 27.2                | 15.0    | 35.1    | 10.1     | 5.7   | 13.3    | 3.5                    | 1.9   | 4.7     | 11.2                              | 0.0   | 19.4    |
| TOTAL     | 228.2   | 84.8  | 365.7   | 96.0                | 28.9  | 160.4   | 948.0               | 407.8   | 1,437.4 | 342.1    | 127.3 | 562.3   | 116.7                  | 41.4  | 185.9   | 573.4                             | 153.9 | 978.8   |
| 10-14     | 75.1    | 8.8   | 144.8   | 28.8                | 2.0   | 57.0    | 286.7               | 36.0    | 545.4   | 79.8     | 13.5  | 149.0   | 24.7                   | 3.6   | 47.0    | 144.3                             | 13.3  | 279.4   |
| 15-19     | 1,369.2 | 340.6 | 2,458.7 | 644.2               | 108.5 | 1,212.9 | 4,738.9             | 1,384.9 | 8,208.9 | 1,470.3  | 412.6 | 2,620.8 | 556.8                  | 136.8 | 986.3   | 2,406.1                           | 565.6 | 4,250.4 |
| 20-24     | 1,302.9 | 494.0 | 2,145.9 | 599.7               | 198.5 | 1,020.8 | 4,490.2             | 1,933.7 | 6,989.5 | 1,548.2  | 567.3 | 2,616.0 | 647.4                  | 211.3 | 1,077.5 | 2,378.2                           | 660.2 | 4,104.4 |
| 25-29     | 495.8   | 250.2 | 739.6   | 194.1               | 89.5  | 298.9   | 1,759.3             | 1,046.3 | 2,411.5 | 768.7    | 324.0 | 1,243.0 | 296.1                  | 144.5 | 427.7   | 1,083.2                           | 343.3 | 1,847.7 |
| 30-34     | 181.9   | 110.8 | 251.8   | 64.8                | 39.5  | 89.9    | 672.1               | 496.5   | 826.7   | 322.1    | 147.2 | 512.1   | 126.8                  | 60.5  | 184.0   | 507.6                             | 198.2 | 820.5   |
| 35-39     | 77.7    | 55.9  | 99.3    | 28.6                | 20.3  | 36.9    | 297.2               | 270.3   | 320.9   | 148.9    | 72.6  | 230.6   | 63.5                   | 34.4  | 89.8    | 273.0                             | 117.0 | 426.7   |
| 40-44     | 34.2    | 28.6  | 39.8    | 13.1                | 11.0  | 15.1    | 133.7               | 141.7   | 126.7   | 69.0     | 36.6  | 102.6   | 34.9                   | 23.3  | 45.3    | 148.0                             | 62.7  | 228.8   |
| 45-54     | 13.0    | 12.2  | 13.9    | 4.7                 | 4.4   | 4.9     | 56.6                | 68.9    | 46.3    | 32.5     | 19.1  | 45.5    | 15.8                   | 12.1  | 19.1    | 71.4                              | 30.6  | 109.1   |
| 55-64     | 4.1     | 4.4   | 3.9     | 1.5                 | 2.0   | 1.1     | 20.6                | 24.7    | 17.5    | 9.4      | 6.8   | 11.6    | 7.0                    | 4.1   | 9.6     | 28.3                              | 25.5  | 30.7    |
| 65+       | 2.6     | 2.2   | 3.0     | 1.0                 | 1.0   | 1.1     | 13.3                | 11.6    | 14.3    | 7.3      | 3.7   | 10.0    | 4.3                    | 5.5   | 3.4     | 58.8                              | 39.3  | 73.0    |
| TOTAL     | 251.3   | 96.1  | 400.1   | 103.3               | 32.8  | 171.0   | 1,030.7             | 454.4   | 1,552.1 | 387.8    | 142.6 | 638.4   | 137.2                  | 50.8  | 216.5   | 605.2                             | 174.6 | 1,021.4 |
| 10-14     | 72.2    | 9.3   | 138.4   | 26.9                | 1.8   | 53.3    | 272.9               | 38.8    | 514.0   | 72.3     | 13.4  | 133.9   | 27.0                   | 3.8   | 51.5    | 144.2                             | 11.5  | 282.5   |
| 15-19     | 1,345.5 | 352.1 | 2,395.9 | 645.6               | 117.8 | 1,197.9 | 4,600.0             | 1,413.3 | 7,862.1 | 1,394.6  | 396.1 | 2,535.2 | 535.2                  | 131.6 | 954.4   | 2,465.5                           | 622.7 | 4,385.5 |
| 20-24     | 1,340.9 | 529.5 | 2,191.0 | 648.1               | 228.3 | 1,078.2 | 4,563.3             | 2,067.9 | 6,938.5 | 1,432.2  | 521.0 | 2,555.1 | 573.3                  | 214.4 | 933.4   | 2,766.7                           | 800.5 | 4,791.6 |
| 25-29     | 491.6   | 254.6 | 734.9   | 201.1               | 97.1  | 306.9   | 1,713.9             | 1,066.5 | 2,304.6 | 683.4    | 287.4 | 1,150.6 | 233.7                  | 119.9 | 344.1   | 1,237.6                           | 434.0 | 2,043.8 |
| 30-34     | 192.6   | 119.6 | 266.8   | 70.3                | 42.0  | 98.9    | 671.2               | 527.9   | 800.9   | 330.8    | 150.6 | 539.0   | 130.9                  | 63.7  | 194.6   | 604.8                             | 252.7 | 954.0   |
| 35-39     | 83.2    | 60.6  | 105.6   | 30.3                | 23.1  | 37.5    | 305.3               | 271.1   | 335.9   | 151.4    | 78.2  | 232.1   | 75.5                   | 42.6  | 106.1   | 310.2                             | 134.0 | 477.4   |
| 40-44     | 37.5    | 30.6  | 44.4    | 14.5                | 12.0  | 17.0    | 138.8               | 137.9   | 139.6   | 76.0     | 44.8  | 109.0   | 36.3                   | 25.4  | 46.0    | 161.2                             | 77.8  | 238.2   |
| 45-54     | 14.6    | 13.8  | 15.4    | 5.5                 | 5.5   | 5.4     | 59.2                | 70.3    | 49.6    | 35.4     | 20.5  | 50.1    | 18.2                   | 14.7  | 21.2    | 76.7                              | 35.8  | 115.0   |
| 55-64     | 4.4     | 4.3   | 4.5     | 1.8                 | 2.0   | 1.7     | 18.7                | 21.6    | 16.3    | 10.4     | 6.6   | 13.7    | 7.6                    | 6.6   | 8.5     | 33.2                              | 21.8  | 43.9    |
| 65+       | 2.8     | 2.4   | 3.0     | 1.1                 | 1.1   | 1.2     | 15.9                | 14.4    | 16.8    | 9.0      | 6.0   | 11.3    | 4.2                    | 6.8   | 2.2     | 12.0                              | 4.2   | 17.8    |
| TOTAL     | 253.8   | 101.8 | 400.4   | 105.6               | 35.7  | 172.5   | 991.8               | 456.3   | 1,479.2 | 388.9    | 147.4 | 646.5   | 134.8                  | 54.4  | 209.8   | 645.5                             | 199.8 | 1,080.6 |
| 10-14     | 72.9    | 9.7   | 139.3   | 27.5                | 2.0   | 54.4    | 276.7               | 39.2    | 521.4   | 79.1     | 16.0  | 145.2   | 21.1                   | 2.0   | 41.2    | 120.7                             | 11.5  | 234.6   |
| 15-19     | 1,435.5 | 383.9 | 2,547.2 | 689.0               | 128.0 | 1,275.9 | 4,975.3             | 1,550.2 | 8,483.0 | 1,547.1  | 466.3 | 2,782.4 | 567.1                  | 146.4 | 1,003.3 | 2,522.4                           | 615.9 | 4,508.9 |
| 20-24     | 1,523.6 | 623.5 | 2,466.9 | 751.7               | 275.0 | 1,240.0 | 5,223.1             | 2,449.3 | 7,867.6 | 1,664.4  | 630.3 | 2,940.6 | 658.1                  | 246.7 | 1,071.9 | 2,713.9                           | 858.9 | 4,621.3 |
| 25-29     | 558.1   | 294.4 | 829.1   | 227.9               | 114.4 | 343.4   | 1,959.8             | 1,233.5 | 2,624.4 | 803.9    | 347.6 | 1,342.9 | 274.6                  | 126.4 | 418.5   | 1,349.4                           | 508.0 | 2,193.9 |
| 30-34     | 221.6   | 144.3 | 300.3   | 82.5                | 52.5  | 112.9   | 792.9               | 645.6   | 926.7   | 387.8    | 188.4 | 618.8   | 138.8                  | 72.9  | 201.3   | 598.5                             | 204.9 | 989.4   |
| 35-39     | 94.5    | 71.7  | 117.1   | 34.7                | 27.5  | 41.9    | 349.0               | 329.4   | 366.5   | 186.8    | 94.8  | 288.4   | 81.5                   | 56.5  | 104.7   | 299.7                             | 129.1 | 461.7   |
| 40-44     | 44.1    | 37.9  | 50.2    | 16.6                | 14.8  | 18.3    | 170.7               | 181.8   | 160.9   | 93.9     | 53.3  | 137.0   | 39.3                   | 24.9  | 52.1    | 159.4                             | 78.7  | 234.1   |
| 45-54     | 16.8    | 16.2  | 17.5    | 6.5                 | 6.7   | 6.3     | 74.6                | 86.8    | 64.0    | 36.6     | 22.8  | 50.3    | 17.6                   | 11.1  | 23.1    | 76.1                              | 44.3  | 106.0   |
| 55-64     | 5.2     | 5.6   | 4.8     | 2.2                 | 2.3   | 2.1     | 25.4                | 34.3    | 18.1    | 12.0     | 9.3   | 14.4    | 6.6                    | 5.4   | 7.7     | 17.8                              | 11.5  | 23.6    |
| 65+       | 2.5     | 2.2   | 2.7     | 0.8                 | 0.6   | 0.9     | 16.2                | 16.9    | 15.7    | 9.8      | 6.9   | 11.9    | 4.0                    | 4.3   | 3.8     | 5.0                               | 7.3   | 3.3     |
| TOTAL     | 282.3   | 117.8 | 441.2   | 118.7               | 42.2  | 192.3   | 1,114.5             | 531.8   | 1,646.1 | 447.4    | 177.5 | 735.9   | 149.9                  | 60.5  | 233.3   | 650.8                             | 205.0 | 1,086.1 |

NOTE: These tables should be used only for race/ethnicity comparisons, not for age, sex or overall totals. This is because, if age or race/ethnicity was not specified, cases were prorated according to the distribution of cases for which these variables were specified. For the following years the states listed did not report age and/or race/ethnicity for most cases and were excluded: 1997 (CO, DE, DC, GA, MD, MI, MS, NJ, NY, OH, SC); 1998 (CO, DC, MI, NJ, NY, OH, SC); 1999 (CO, DC, MI, NJ, NY); 2000 (CO, DC, MI, NY); 2001 (CO, DC, MD, NJ, NY). Cases and population denominators have been excluded for these states/areas. Differences between total cases from this table and others in the report are due to different reporting forms and above listed exclusions. The 0 to 9 year age group is not shown because some of these may not be due to sexual transmission; however, they are included in the totals.

**Table 13. Gonorrhea — Reported cases and rates by state/area, ranked by rates: United States, 2001**

| <i>Rank<sup>2</sup></i> | <i>State/Area</i>             | <i>Cases</i>   | <i>Rate per 100,000 Population</i> |
|-------------------------|-------------------------------|----------------|------------------------------------|
| 1                       | Louisiana                     | 12,253         | 274.2                              |
| 2                       | Mississippi                   | 7,759          | 272.8                              |
| 3                       | South Carolina                | 10,805         | 269.3                              |
| 4                       | Alabama                       | 11,182         | 251.4                              |
| 5                       | Georgia                       | 18,920         | 231.1                              |
| 6                       | Delaware                      | 1,733          | 221.2                              |
| 7                       | North Carolina                | 16,583         | 206.0                              |
| 8                       | Illinois                      | 24,025         | 193.4                              |
| 9                       | Ohio                          | 21,163         | 186.4                              |
| 10                      | Tennessee                     | 10,145         | 178.3                              |
| 11                      | Maryland                      | 9,427          | 178.0                              |
| 12                      | Michigan                      | 17,120         | 172.3                              |
| 13                      | Arkansas                      | 4,604          | 172.2                              |
| 14                      | Virginia                      | 11,095         | 156.7                              |
| 15                      | Missouri                      | 8,723          | 155.9                              |
| 16                      | Texas                         | 30,024         | 144.0                              |
| 17                      | Oklahoma                      | 4,784          | 138.6                              |
| 18                      | Florida                       | 21,531         | 134.7                              |
|                         | <b>U.S. TOTAL<sup>1</sup></b> | <b>361,705</b> | <b>128.5</b>                       |
| 19                      | New York                      | 22,299         | 117.5                              |
| 20                      | Pennsylvania                  | 14,244         | 116.0                              |
| 21                      | Indiana                       | 6,972          | 114.7                              |
| 22                      | Wisconsin                     | 6,011          | 112.1                              |
| 23                      | New Jersey                    | 8,921          | 106.0                              |
| 24                      | Kansas                        | 2,669          | 99.3                               |
| 25                      | Kentucky                      | 3,588          | 88.8                               |
| 26                      | Nevada                        | 1,756          | 87.9                               |
| 27                      | Rhode Island                  | 830            | 79.2                               |
| 28                      | Arizona                       | 3,920          | 76.4                               |
| 29                      | Connecticut                   | 2,546          | 74.8                               |
| 30                      | Colorado                      | 3,190          | 74.2                               |
| 31                      | Alaska                        | 457            | 72.9                               |
| 32                      | Nebraska                      | 1,189          | 69.5                               |
| 33                      | California                    | 23,296         | 68.8                               |
| 34                      | New Mexico                    | 1,040          | 57.2                               |
| 35                      | Minnesota                     | 2,701          | 54.9                               |
| 36                      | Washington                    | 2,991          | 50.7                               |
| 37                      | Massachusetts                 | 3,214          | 50.6                               |
| 38                      | Hawaii                        | 604            | 49.9                               |
| 39                      | Iowa                          | 1,418          | 48.5                               |
| 40                      | West Virginia                 | 732            | 40.5                               |
| 41                      | South Dakota                  | 289            | 38.3                               |
| 42                      | Oregon                        | 1,144          | 33.4                               |
|                         | <b>YEAR 2010 OBJECTIVE</b>    |                | <b>19.0</b>                        |
| 43                      | Wyoming                       | 77             | 15.6                               |
| 44                      | New Hampshire                 | 176            | 14.2                               |
| 45                      | Vermont                       | 76             | 12.5                               |
| 46                      | Montana                       | 104            | 11.5                               |
| 47                      | Maine                         | 141            | 11.1                               |
| 48                      | Utah                          | 219            | 9.8                                |
| 49                      | North Dakota                  | 56             | 8.7                                |
| 50                      | Idaho                         | 76             | 5.9                                |

<sup>1</sup>Total includes cases reported by Washington, D.C., but excludes outlying areas (Guam with 48 cases and rate of 31.0, Puerto Rico with 589 cases and rate of 15.5, and Virgin Islands with 34 cases and rate of 31.3).

<sup>2</sup>States were ranked in descending order by rate, number of cases, and alphabetically by state.

**Table 14. Gonorrhea — Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001**

| State/Area              | Cases   |         |         |         |         | Rates per 100,000 Population |       |       |       |       |
|-------------------------|---------|---------|---------|---------|---------|------------------------------|-------|-------|-------|-------|
|                         | 1997    | 1998    | 1999    | 2000    | 2001    | 1997                         | 1998  | 1999  | 2000  | 2001  |
| Alabama                 | 12,031  | 12,737  | 10,888  | 12,063  | 11,182  | 278.5                        | 292.7 | 249.2 | 271.3 | 251.4 |
| Alaska                  | 391     | 331     | 302     | 361     | 457     | 64.2                         | 53.9  | 48.7  | 57.6  | 72.9  |
| Arizona                 | 3,802   | 4,213   | 4,293   | 4,130   | 3,920   | 83.5                         | 90.2  | 89.8  | 80.5  | 76.4  |
| Arkansas                | 4,382   | 3,953   | 3,226   | 3,642   | 4,604   | 173.7                        | 155.7 | 126.4 | 136.2 | 172.2 |
| California              | 17,979  | 19,590  | 18,672  | 21,619  | 23,296  | 55.7                         | 60.0  | 56.3  | 63.8  | 68.8  |
| Colorado                | 2,315   | 2,033   | 2,526   | 3,112   | 3,190   | 59.5                         | 51.2  | 62.3  | 72.4  | 74.2  |
| Connecticut             | 3,154   | 3,177   | 3,321   | 2,912   | 2,546   | 96.5                         | 97.0  | 101.2 | 85.5  | 74.8  |
| Delaware                | 1,273   | 1,556   | 1,662   | 1,735   | 1,733   | 174.0                        | 209.3 | 220.6 | 221.4 | 221.2 |
| Florida                 | 19,079  | 19,080  | 22,794  | 22,781  | 21,531  | 130.2                        | 127.9 | 150.8 | 142.5 | 134.7 |
| Georgia                 | 18,471  | 20,666  | 21,244  | 20,265  | 18,920  | 246.7                        | 270.4 | 272.8 | 247.5 | 231.1 |
| Hawaii                  | 510     | 506     | 463     | 483     | 604     | 43.0                         | 42.4  | 39.1  | 39.9  | 49.9  |
| Idaho                   | 158     | 182     | 89      | 98      | 76      | 13.1                         | 14.8  | 7.1   | 7.6   | 5.9   |
| Illinois                | 19,524  | 22,499  | 24,136  | 24,812  | 24,025  | 164.1                        | 186.8 | 199.0 | 199.8 | 193.4 |
| Indiana                 | 6,155   | 6,307   | 6,092   | 6,525   | 6,972   | 105.0                        | 106.9 | 102.5 | 107.3 | 114.7 |
| Iowa                    | 1,311   | 1,616   | 1,365   | 1,392   | 1,418   | 46.0                         | 56.5  | 47.6  | 47.6  | 48.5  |
| Kansas                  | 2,075   | 2,622   | 2,665   | 2,795   | 2,669   | 80.0                         | 99.7  | 100.4 | 104.0 | 99.3  |
| Kentucky                | 4,027   | 3,813   | 3,349   | 3,502   | 3,588   | 103.0                        | 96.9  | 84.6  | 86.6  | 88.8  |
| Louisiana               | 10,782  | 12,499  | 13,189  | 13,245  | 12,253  | 247.8                        | 286.1 | 301.7 | 296.4 | 274.2 |
| Maine                   | 66      | 67      | 83      | 90      | 141     | 5.3                          | 5.4   | 6.6   | 7.1   | 11.1  |
| Maryland                | 11,568  | 11,254  | 10,430  | 9,837   | 9,427   | 227.1                        | 219.2 | 201.7 | 185.7 | 178.0 |
| Massachusetts           | 2,225   | 2,258   | 2,453   | 3,045   | 3,214   | 36.4                         | 36.7  | 39.7  | 48.0  | 50.6  |
| Michigan                | 15,736  | 16,359  | 15,907  | 18,182  | 17,120  | 161.0                        | 166.6 | 161.3 | 182.9 | 172.3 |
| Minnesota               | 2,417   | 2,708   | 2,830   | 3,160   | 2,701   | 51.6                         | 57.3  | 59.3  | 64.2  | 54.9  |
| Mississippi             | 9,367   | 10,689  | 10,411  | 9,217   | 7,759   | 343.1                        | 388.4 | 376.0 | 324.0 | 272.8 |
| Missouri                | 7,658   | 9,463   | 8,187   | 8,883   | 8,723   | 141.8                        | 174.0 | 149.7 | 158.8 | 155.9 |
| Montana                 | 66      | 55      | 53      | 60      | 104     | 7.5                          | 6.2   | 6.0   | 6.7   | 11.5  |
| Nebraska                | 1,210   | 1,204   | 1,471   | 1,534   | 1,189   | 73.0                         | 72.4  | 88.3  | 89.6  | 69.5  |
| Nevada                  | 829     | 1,445   | 1,303   | 1,553   | 1,756   | 49.4                         | 82.7  | 72.0  | 77.7  | 87.9  |
| New Hampshire           | 96      | 91      | 115     | 110     | 176     | 8.2                          | 7.7   | 9.6   | 8.9   | 14.2  |
| New Jersey              | 7,566   | 7,858   | 7,852   | 7,232   | 8,921   | 94.0                         | 96.8  | 96.4  | 85.9  | 106.0 |
| New Mexico              | 857     | 957     | 974     | 1,152   | 1,040   | 49.5                         | 55.1  | 56.0  | 63.3  | 57.2  |
| New York                | 22,393  | 19,062  | 19,826  | 20,114  | 22,299  | 123.5                        | 104.9 | 109.0 | 106.0 | 117.5 |
| North Carolina          | 16,888  | 19,230  | 19,428  | 17,823  | 16,583  | 227.4                        | 254.8 | 253.9 | 221.4 | 206.0 |
| North Dakota            | 68      | 80      | 83      | 73      | 56      | 10.6                         | 12.5  | 13.1  | 11.4  | 8.7   |
| Ohio                    | 14,961  | 18,275  | 18,141  | 19,303  | 21,163  | 133.7                        | 163.0 | 161.2 | 170.0 | 186.4 |
| Oklahoma                | 4,760   | 5,243   | 4,021   | 4,229   | 4,784   | 143.5                        | 156.7 | 119.7 | 122.6 | 138.6 |
| Oregon                  | 773     | 880     | 903     | 1,038   | 1,144   | 23.8                         | 26.8  | 27.2  | 30.3  | 33.4  |
| Pennsylvania            | 9,967   | 11,719  | 13,295  | 13,607  | 14,244  | 82.9                         | 97.6  | 110.8 | 110.8 | 116.0 |
| Rhode Island            | 422     | 430     | 601     | 661     | 830     | 42.7                         | 43.5  | 60.7  | 63.1  | 79.2  |
| South Carolina          | 11,487  | 11,575  | 15,037  | 8,383   | 10,805  | 305.5                        | 301.7 | 387.0 | 208.9 | 269.3 |
| South Dakota            | 172     | 221     | 192     | 277     | 289     | 23.3                         | 29.9  | 26.2  | 36.7  | 38.3  |
| Tennessee               | 11,023  | 11,840  | 11,366  | 11,876  | 10,145  | 205.3                        | 218.0 | 207.3 | 208.7 | 178.3 |
| Texas                   | 26,612  | 32,833  | 32,910  | 32,919  | 30,024  | 136.9                        | 166.2 | 164.2 | 157.9 | 144.0 |
| Utah                    | 278     | 236     | 254     | 231     | 219     | 13.5                         | 11.2  | 11.9  | 10.3  | 9.8   |
| Vermont                 | 53      | 38      | 52      | 65      | 76      | 9.0                          | 6.4   | 8.8   | 10.7  | 12.5  |
| Virginia                | 8,888   | 9,265   | 9,402   | 10,175  | 11,095  | 132.0                        | 136.4 | 136.8 | 143.7 | 156.7 |
| Washington              | 1,956   | 1,948   | 2,132   | 2,418   | 2,991   | 34.9                         | 34.2  | 37.0  | 41.0  | 50.7  |
| West Virginia           | 957     | 920     | 584     | 645     | 732     | 52.7                         | 50.8  | 32.3  | 35.7  | 40.5  |
| Wisconsin               | 4,316   | 6,365   | 6,662   | 7,013   | 6,011   | 83.5                         | 121.9 | 126.9 | 130.7 | 112.1 |
| Wyoming                 | 54      | 36      | 43      | 53      | 77      | 11.3                         | 7.5   | 9.0   | 10.7  | 15.6  |
| U.S. TOTAL <sup>1</sup> | 327,665 | 356,492 | 360,813 | 363,136 | 361,705 | 122.4                        | 131.9 | 132.3 | 129.0 | 128.5 |
| Northeast               | 45,942  | 44,700  | 47,598  | 47,836  | 52,447  | 89.1                         | 86.4  | 91.8  | 89.3  | 97.9  |
| Midwest                 | 75,603  | 87,719  | 87,731  | 93,949  | 92,336  | 121.0                        | 139.5 | 138.7 | 145.9 | 143.4 |
| South                   | 176,152 | 191,661 | 193,477 | 185,043 | 178,048 | 187.0                        | 200.8 | 200.6 | 184.6 | 177.6 |
| West                    | 29,968  | 32,412  | 32,007  | 36,308  | 38,874  | 50.5                         | 53.8  | 52.3  | 57.5  | 61.5  |
| Guam                    | 47      | 72      | 59      | 62      | 48      | 30.1                         | 45.0  | 36.1  | 40.1  | 31.0  |
| Puerto Rico             | 526     | 400     | 321     | 527     | 589     | 13.7                         | 10.4  | 8.3   | 13.8  | 15.5  |
| Virgin Islands          | 40      | 39      | 51      | 24      | 34      | 36.5                         | 35.6  | 45.2  | 22.1  | 31.3  |
| OUTLYING AREAS          | 613     | 511     | 431     | 613     | 671     | 15.0                         | 12.4  | 10.3  | 15.1  | 16.5  |
| TOTAL                   | 328,278 | 357,003 | 361,244 | 363,749 | 362,376 | 120.8                        | 130.1 | 130.5 | 127.4 | 126.9 |

<sup>1</sup>Includes cases reported by Washington, D.C.

**Table 15. Gonorrhea — Women – Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001**

| State/Area              | Cases   |         |         |         |         | Rates per 100,000 Population |       |       |       |       |
|-------------------------|---------|---------|---------|---------|---------|------------------------------|-------|-------|-------|-------|
|                         | 1997    | 1998    | 1999    | 2000    | 2001    | 1997                         | 1998  | 1999  | 2000  | 2001  |
| Alabama                 | 5,984   | 6,313   | 5,460   | 5,984   | 5,712   | 266.9                        | 278.8 | 240.3 | 260.1 | 248.3 |
| Alaska                  | 230     | 181     | 153     | 198     | 244     | 79.6                         | 62.0  | 52.0  | 65.4  | 80.6  |
| Arizona                 | 1,625   | 1,730   | 1,760   | 1,754   | 1,700   | 70.8                         | 73.3  | 72.9  | 68.3  | 66.2  |
| Arkansas                | 2,071   | 1,919   | 1,576   | 1,807   | 2,404   | 159.2                        | 146.2 | 119.5 | 132.0 | 175.6 |
| California              | 8,462   | 9,345   | 8,903   | 9,624   | 10,448  | 52.5                         | 57.2  | 53.7  | 56.6  | 61.5  |
| Colorado                | 1,224   | 1,055   | 1,271   | 1,544   | 1,588   | 62.4                         | 52.7  | 62.1  | 72.3  | 74.4  |
| Connecticut             | 1,642   | 1,714   | 1,796   | 1,621   | 1,411   | 97.7                         | 101.7 | 106.3 | 92.3  | 80.3  |
| Delaware                | 705     | 855     | 912     | 987     | 1,002   | 188.0                        | 223.8 | 235.5 | 244.9 | 248.6 |
| Florida                 | 9,513   | 8,923   | 10,960  | 10,862  | 10,380  | 126.3                        | 116.2 | 140.9 | 132.7 | 126.8 |
| Georgia                 | 9,532   | 10,056  | 10,092  | 9,844   | 9,590   | 248.5                        | 256.3 | 252.5 | 236.7 | 230.6 |
| Hawaii                  | 264     | 278     | 251     | 240     | 292     | 44.8                         | 46.7  | 42.3  | 39.8  | 48.4  |
| Idaho                   | 83      | 74      | 42      | 51      | 39      | 13.7                         | 12.0  | 6.7   | 7.9   | 6.0   |
| Illinois                | 9,560   | 10,737  | 11,563  | 11,829  | 12,178  | 157.1                        | 174.0 | 186.1 | 186.6 | 192.1 |
| Indiana                 | 3,141   | 3,308   | 3,254   | 3,446   | 3,792   | 104.5                        | 109.2 | 106.6 | 111.2 | 122.4 |
| Iowa                    | 762     | 895     | 759     | 740     | 766     | 52.2                         | 60.9  | 51.6  | 49.6  | 51.4  |
| Kansas                  | 1,133   | 1,454   | 1,573   | 1,496   | 1,468   | 86.0                         | 108.8 | 116.6 | 110.0 | 107.9 |
| Kentucky                | 1,882   | 1,866   | 1,626   | 1,725   | 1,812   | 93.7                         | 92.1  | 79.8  | 83.5  | 87.7  |
| Louisiana               | 5,202   | 6,143   | 6,697   | 6,471   | 6,056   | 230.7                        | 270.8 | 295.3 | 280.6 | 262.6 |
| Maine                   | 31      | 31      | 40      | 29      | 55      | 4.9                          | 4.9   | 6.2   | 4.4   | 8.4   |
| Maryland                | 5,767   | 5,391   | 4,749   | 4,577   | 4,591   | 220.6                        | 204.2 | 178.6 | 167.1 | 167.6 |
| Massachusetts           | 1,151   | 1,155   | 1,207   | 1,568   | 1,591   | 36.4                         | 36.3  | 37.8  | 47.7  | 48.4  |
| Michigan                | 7,969   | 8,265   | 7,771   | 9,190   | 9,057   | 159.1                        | 164.0 | 153.5 | 181.4 | 178.8 |
| Minnesota               | 1,307   | 1,443   | 1,495   | 1,681   | 1,461   | 55.1                         | 60.2  | 61.7  | 67.7  | 58.8  |
| Mississippi             | 5,188   | 5,973   | 6,137   | 5,603   | 4,663   | 365.7                        | 416.8 | 425.6 | 380.9 | 317.0 |
| Missouri                | 4,113   | 4,924   | 4,459   | 4,489   | 4,540   | 147.9                        | 175.5 | 158.2 | 156.1 | 157.9 |
| Montana                 | 31      | 33      | 35      | 38      | 57      | 7.0                          | 7.5   | 7.9   | 8.4   | 12.6  |
| Nebraska                | 670     | 683     | 814     | 849     | 671     | 79.3                         | 80.4  | 95.6  | 97.8  | 77.3  |
| Nevada                  | 317     | 591     | 480     | 618     | 761     | 38.6                         | 68.9  | 54.0  | 63.0  | 77.6  |
| New Hampshire           | 57      | 47      | 61      | 53      | 96      | 9.6                          | 7.8   | 10.0  | 8.4   | 15.3  |
| New Jersey              | 3,564   | 3,763   | 3,824   | 3,571   | 4,522   | 86.0                         | 89.9  | 91.1  | 82.4  | 104.4 |
| New Mexico              | 509     | 530     | 528     | 573     | 472     | 58.0                         | 60.1  | 59.7  | 62.0  | 51.0  |
| New York                | 12,833  | 10,586  | 10,639  | 10,691  | 11,873  | 136.6                        | 112.2 | 112.9 | 108.8 | 120.8 |
| North Carolina          | 7,844   | 9,129   | 9,089   | 8,468   | 7,810   | 205.6                        | 234.9 | 230.6 | 206.2 | 190.2 |
| North Dakota            | 42      | 56      | 46      | 36      | 30      | 13.1                         | 17.5  | 14.4  | 11.2  | 9.3   |
| Ohio                    | 8,349   | 10,117  | 9,707   | 10,311  | 11,257  | 144.8                        | 174.7 | 166.9 | 176.5 | 192.7 |
| Oklahoma                | 2,418   | 2,932   | 2,240   | 2,433   | 2,670   | 142.8                        | 171.2 | 130.3 | 138.7 | 152.2 |
| Oregon                  | 348     | 430     | 433     | 486     | 448     | 21.2                         | 25.9  | 25.8  | 28.2  | 26.0  |
| Pennsylvania            | 5,396   | 6,472   | 7,356   | 7,371   | 7,872   | 86.6                         | 103.9 | 118.1 | 116.1 | 123.9 |
| Rhode Island            | 263     | 258     | 371     | 381     | 488     | 51.4                         | 50.3  | 72.1  | 69.9  | 89.6  |
| South Carolina          | 5,128   | 5,730   | 5,874   | 4,057   | 5,126   | 263.9                        | 288.3 | 292.1 | 196.6 | 248.5 |
| South Dakota            | 87      | 124     | 117     | 165     | 166     | 23.3                         | 33.1  | 31.4  | 43.4  | 43.7  |
| Tennessee               | 4,940   | 5,263   | 4,965   | 5,343   | 4,808   | 178.2                        | 187.3 | 175.0 | 183.0 | 164.7 |
| Texas                   | 13,797  | 16,704  | 16,819  | 16,932  | 15,599  | 140.4                        | 166.8 | 165.6 | 161.3 | 148.6 |
| Utah                    | 84      | 70      | 100     | 99      | 95      | 8.1                          | 6.6   | 9.3   | 8.9   | 8.5   |
| Vermont                 | 32      | 22      | 22      | 33      | 42      | 10.7                         | 7.3   | 7.3   | 10.6  | 13.5  |
| Virginia                | 4,290   | 4,543   | 4,566   | 4,856   | 5,485   | 124.9                        | 130.7 | 129.9 | 134.6 | 152.1 |
| Washington              | 965     | 863     | 1,009   | 1,078   | 1,301   | 34.3                         | 30.2  | 34.9  | 36.4  | 44.0  |
| West Virginia           | 512     | 549     | 357     | 375     | 418     | 54.5                         | 58.5  | 38.1  | 40.4  | 45.0  |
| Wisconsin               | 2,344   | 3,754   | 3,826   | 4,189   | 3,672   | 89.3                         | 141.3 | 143.3 | 154.3 | 135.3 |
| Wyoming                 | 30      | 23      | 26      | 31      | 43      | 12.6                         | 9.6   | 10.9  | 12.6  | 17.5  |
| U.S. TOTAL <sup>1</sup> | 165,310 | 179,204 | 179,319 | 181,668 | 183,863 | 121.0                        | 129.6 | 128.6 | 126.7 | 128.2 |
| Northeast               | 24,969  | 24,048  | 25,316  | 25,318  | 27,950  | 93.7                         | 89.8  | 94.4  | 91.4  | 100.9 |
| Midwest                 | 39,477  | 45,760  | 45,384  | 48,421  | 49,058  | 123.5                        | 141.9 | 140.0 | 147.5 | 149.4 |
| South                   | 86,692  | 94,193  | 93,628  | 91,595  | 89,367  | 179.5                        | 192.1 | 188.9 | 179.0 | 174.6 |
| West                    | 14,172  | 15,203  | 14,991  | 16,334  | 17,488  | 47.7                         | 50.3  | 48.9  | 51.6  | 55.2  |
| Guam                    | 12      | 25      | 28      | 23      | 22      | 16.3                         | 33.3  | 36.4  | 30.4  | 29.1  |
| Puerto Rico             | 212     | 163     | 132     | 238     | 279     | 10.7                         | 8.1   | 6.5   | 12.1  | 14.1  |
| Virgin Islands          | 19      | 16      | 38      | 14      | 20      | 33.3                         | 27.8  | 73.7  | 24.7  | 35.2  |
| OUTLYING AREAS          | 243     | 204     | 198     | 275     | 321     | 11.5                         | 9.5   | 9.2   | 13.0  | 15.2  |
| TOTAL                   | 165,553 | 179,408 | 179,517 | 181,943 | 184,184 | 119.3                        | 127.8 | 126.8 | 125.1 | 126.6 |

<sup>1</sup>Includes cases reported by Washington, D.C. Cases reported with unknown sex are not included in this table.

**Table 16. Gonorrhea — Men — Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001**

| State/Area                    | Cases          |                |                |                |                | Rates per 100,000 Population |              |              |              |              |
|-------------------------------|----------------|----------------|----------------|----------------|----------------|------------------------------|--------------|--------------|--------------|--------------|
|                               | 1997           | 1998           | 1999           | 2000           | 2001           | 1997                         | 1998         | 1999         | 2000         | 2001         |
| Alabama                       | 6,022          | 6,411          | 5,399          | 6,039          | 5,457          | 290.0                        | 307.1        | 257.4        | 281.3        | 254.2        |
| Alaska                        | 161            | 150            | 149            | 163            | 213            | 50.3                         | 46.6         | 45.8         | 50.3         | 65.7         |
| Arizona                       | 2,177          | 2,483          | 2,533          | 2,376          | 2,220          | 96.4                         | 107.5        | 107.1        | 92.8         | 86.7         |
| Arkansas                      | 2,295          | 2,029          | 1,650          | 1,832          | 2,191          | 187.9                        | 165.5        | 133.8        | 140.4        | 167.9        |
| California                    | 9,452          | 10,192         | 9,618          | 11,896         | 12,701         | 58.5                         | 62.4         | 58.0         | 70.5         | 75.3         |
| Colorado                      | 1,091          | 978            | 1,255          | 1,568          | 1,602          | 56.5                         | 49.7         | 62.4         | 72.4         | 74.0         |
| Connecticut                   | 1,512          | 1,463          | 1,525          | 1,291          | 1,132          | 95.1                         | 92.1         | 95.7         | 78.3         | 68.6         |
| Delaware                      | 568            | 701            | 750            | 748            | 731            | 159.3                        | 193.9        | 204.8        | 196.6        | 192.1        |
| Florida                       | 9,566          | 10,054         | 11,797         | 11,919         | 11,149         | 134.3                        | 138.9        | 160.9        | 152.9        | 143.0        |
| Georgia                       | 8,916          | 10,525         | 11,039         | 10,309         | 9,325          | 244.2                        | 283.1        | 291.2        | 256.0        | 231.6        |
| Hawaii                        | 246            | 228            | 211            | 243            | 312            | 41.2                         | 38.1         | 35.6         | 39.9         | 51.3         |
| Idaho                         | 75             | 108            | 46             | 47             | 35             | 12.4                         | 17.6         | 7.4          | 7.2          | 5.4          |
| Illinois                      | 9,964          | 11,761         | 12,559         | 12,981         | 11,845         | 171.5                        | 200.2        | 212.3        | 213.5        | 194.8        |
| Indiana                       | 3,006          | 2,991          | 2,836          | 3,069          | 3,169          | 105.1                        | 104.2        | 98.1         | 102.9        | 106.3        |
| Iowa                          | 549            | 721            | 606            | 652            | 652            | 39.4                         | 51.7         | 43.4         | 45.4         | 45.4         |
| Kansas                        | 942            | 1,168          | 1,092          | 1,299          | 1,201          | 73.7                         | 90.4         | 83.7         | 97.8         | 90.4         |
| Kentucky                      | 2,137          | 1,887          | 1,669          | 1,751          | 1,769          | 112.5                        | 98.8         | 86.8         | 88.6         | 89.6         |
| Louisiana                     | 5,580          | 6,356          | 6,492          | 6,774          | 6,197          | 266.1                        | 302.6        | 308.6        | 313.2        | 286.5        |
| Maine                         | 35             | 36             | 43             | 61             | 86             | 5.8                          | 5.9          | 7.0          | 9.8          | 13.9         |
| Maryland                      | 5,801          | 5,846          | 5,669          | 5,196          | 4,836          | 233.9                        | 234.3        | 225.6        | 203.1        | 189.1        |
| Massachusetts                 | 1,074          | 1,103          | 1,246          | 1,477          | 1,622          | 36.4                         | 37.2         | 41.8         | 48.3         | 53.0         |
| Michigan                      | 7,767          | 8,094          | 8,136          | 8,992          | 8,063          | 163.0                        | 169.5        | 169.5        | 184.5        | 165.5        |
| Minnesota                     | 1,110          | 1,265          | 1,335          | 1,479          | 1,240          | 48.0                         | 54.3         | 56.7         | 60.7         | 50.9         |
| Mississippi                   | 4,049          | 4,653          | 4,184          | 3,586          | 3,096          | 308.6                        | 352.8        | 315.4        | 261.1        | 225.4        |
| Missouri                      | 3,545          | 4,539          | 3,728          | 4,394          | 4,183          | 135.2                        | 172.4        | 140.7        | 161.5        | 153.8        |
| Montana                       | 35             | 22             | 18             | 22             | 47             | 8.0                          | 5.0          | 4.1          | 4.9          | 10.5         |
| Nebraska                      | 537            | 520            | 657            | 681            | 516            | 66.1                         | 63.9         | 80.6         | 80.7         | 61.2         |
| Nevada                        | 512            | 854            | 822            | 935            | 993            | 59.9                         | 96.1         | 89.2         | 91.8         | 97.5         |
| New Hampshire                 | 39             | 44             | 54             | 57             | 80             | 6.7                          | 7.5          | 9.1          | 9.4          | 13.2         |
| New Jersey                    | 3,999          | 4,094          | 4,019          | 3,654          | 4,391          | 102.3                        | 104.2        | 101.8        | 89.5         | 107.5        |
| New Mexico                    | 348            | 427            | 445            | 572            | 555            | 40.8                         | 50.0         | 52.0         | 64.0         | 62.1         |
| New York                      | 9,560          | 8,476          | 9,176          | 9,378          | 10,397         | 109.3                        | 96.9         | 104.6        | 102.5        | 113.7        |
| North Carolina                | 9,044          | 10,101         | 10,339         | 9,354          | 8,772          | 250.5                        | 276.0        | 278.7        | 237.2        | 222.5        |
| North Dakota                  | 26             | 24             | 37             | 37             | 26             | 8.1                          | 7.6          | 11.7         | 11.5         | 8.1          |
| Ohio                          | 6,506          | 8,023          | 8,245          | 8,837          | 9,679          | 120.1                        | 148.1        | 151.5        | 160.3        | 175.6        |
| Oklahoma                      | 2,342          | 2,311          | 1,781          | 1,796          | 2,114          | 144.3                        | 141.4        | 108.6        | 105.9        | 124.7        |
| Oregon                        | 425            | 450            | 470            | 552            | 696            | 26.5                         | 27.8         | 28.7         | 32.5         | 41.0         |
| Pennsylvania                  | 4,571          | 5,247          | 5,939          | 6,236          | 6,372          | 79.0                         | 90.9         | 103.0        | 105.2        | 107.5        |
| Rhode Island                  | 159            | 172            | 230            | 280            | 342            | 33.4                         | 36.2         | 48.3         | 55.6         | 67.9         |
| South Carolina                | 6,340          | 5,769          | 9,052          | 4,256          | 5,640          | 349.0                        | 312.1        | 482.8        | 218.4        | 289.4        |
| South Dakota                  | 85             | 97             | 75             | 111            | 123            | 23.4                         | 26.7         | 20.8         | 29.6         | 32.8         |
| Tennessee                     | 6,083          | 6,577          | 6,401          | 6,533          | 5,337          | 234.4                        | 251.0        | 241.8        | 235.8        | 192.7        |
| Texas                         | 12,815         | 15,995         | 15,973         | 15,919         | 14,370         | 133.3                        | 164.1        | 161.5        | 153.8        | 138.8        |
| Utah                          | 194            | 166            | 154            | 132            | 124            | 18.9                         | 15.9         | 14.5         | 11.8         | 11.1         |
| Vermont                       | 21             | 16             | 30             | 32             | 34             | 7.2                          | 5.5          | 10.3         | 10.7         | 11.4         |
| Virginia                      | 4,590          | 4,720          | 4,832          | 5,307          | 5,574          | 139.2                        | 142.3        | 143.9        | 152.9        | 160.5        |
| Washington                    | 991            | 1,085          | 1,123          | 1,340          | 1,690          | 35.4                         | 38.4         | 39.2         | 45.7         | 57.6         |
| West Virginia                 | 445            | 369            | 227            | 269            | 313            | 50.8                         | 42.3         | 26.1         | 30.6         | 35.6         |
| Wisconsin                     | 1,972          | 2,611          | 2,827          | 2,817          | 2,321          | 77.5                         | 101.7        | 109.6        | 106.3        | 87.6         |
| Wyoming                       | 24             | 13             | 17             | 22             | 34             | 9.9                          | 5.4          | 7.1          | 8.9          | 13.7         |
| <b>U.S. TOTAL<sup>1</sup></b> | <b>161,940</b> | <b>176,529</b> | <b>180,524</b> | <b>180,701</b> | <b>177,194</b> | <b>123.6</b>                 | <b>133.7</b> | <b>135.5</b> | <b>130.9</b> | <b>128.4</b> |
| Northeast                     | 20,970         | 20,651         | 22,262         | 22,466         | 24,456         | 84.1                         | 82.8         | 89.0         | 86.8         | 94.4         |
| Midwest                       | 36,009         | 41,814         | 42,133         | 45,349         | 43,018         | 118.1                        | 136.4        | 136.7        | 143.7        | 136.3        |
| South                         | 89,230         | 96,908         | 99,268         | 93,018         | 88,498         | 194.4                        | 208.9        | 211.6        | 189.6        | 180.4        |
| West                          | 15,731         | 17,156         | 16,861         | 19,868         | 21,222         | 53.0                         | 57.1         | 55.3         | 63.0         | 67.3         |
| Guam                          | 35             | 47             | 31             | 39             | 26             | 42.3                         | 55.5         | 35.8         | 49.3         | 32.8         |
| Puerto Rico                   | 314            | 237            | 189            | 289            | 310            | 17.1                         | 12.8         | 10.1         | 15.8         | 16.9         |
| Virgin Islands                | 21             | 23             | 13             | 10             | 14             | 39.9                         | 43.2         | 21.2         | 19.3         | 27.0         |
| <b>OUTLYING AREAS</b>         | <b>370</b>     | <b>307</b>     | <b>233</b>     | <b>338</b>     | <b>350</b>     | <b>18.8</b>                  | <b>15.4</b>  | <b>11.6</b>  | <b>17.2</b>  | <b>17.8</b>  |
| <b>TOTAL</b>                  | <b>162,310</b> | <b>176,836</b> | <b>180,757</b> | <b>181,039</b> | <b>177,544</b> | <b>122.0</b>                 | <b>131.9</b> | <b>133.6</b> | <b>129.3</b> | <b>126.8</b> |

<sup>1</sup>Includes cases reported by Washington, D.C. Cases reported with unknown sex are not included in this table.

**Table 17. Gonorrhea — Reported cases and rates in selected cities of >200,000 population, ranked by rates: United States, 2001**

| <i>Rank</i> <sup>1</sup>   | <i>City*</i>       | <i>Cases</i> | <i>Rate per 100,000 Population</i> |
|----------------------------|--------------------|--------------|------------------------------------|
| 1                          | Richmond, VA       | 2,109        | 1,066.3                            |
| 2                          | St Louis, MO       | 3,185        | 914.7                              |
| 3                          | Baltimore, MD      | 5,014        | 770.0                              |
| 4                          | Rochester, NY      | 1,769        | 716.0                              |
| 5                          | Buffalo, NY        | 2,194        | 681.1                              |
| 6                          | Detroit, MI        | 8,220        | 670.3                              |
| 7                          | New Orleans, LA    | 3,160        | 652.0                              |
| 8                          | Norfolk, VA        | 1,450        | 618.6                              |
| 9                          | Newark, NJ         | 1,798        | 597.8                              |
| 10                         | Atlanta, GA        | 4,621        | 566.3                              |
| 11                         | Philadelphia, PA   | 8,096        | 533.5                              |
| 12                         | Washington, DC     | 2,883        | 504.0                              |
| 13                         | Memphis, TN        | 4,420        | 492.5                              |
| 14                         | Kansas City, MO    | 2,161        | 478.2                              |
| 15                         | Chicago, IL        | 14,326       | 464.2                              |
| 16                         | Milwaukee, WI      | 4,150        | 441.4                              |
| 17                         | Indianapolis, IN   | 3,383        | 393.2                              |
| 18                         | Birmingham, AL     | 2,600        | 392.7                              |
| 19                         | Oklahoma City, OK  | 1,617        | 380.2                              |
| 20                         | Cincinnati, OH     | 3,178        | 376.0                              |
| 21                         | Jacksonville, FL   | 2,731        | 350.6                              |
| 22                         | Minneapolis, MN    | 1,295        | 337.3                              |
| 23                         | Columbus, OH       | 3,349        | 313.3                              |
| 24                         | Denver, CO         | 1,618        | 291.7                              |
| 25                         | Charlotte, NC      | 2,014        | 289.6                              |
| 26                         | Nashville, TN      | 1,625        | 285.1                              |
| 27                         | Dallas, TX         | 6,166        | 277.9                              |
| 28                         | Cleveland, OH      | 3,854        | 276.5                              |
| 29                         | San Francisco, CA  | 2,053        | 264.3                              |
| 30                         | Toledo, OH         | 1,187        | 260.8                              |
| 31                         | Tulsa, OK          | 1,014        | 257.2                              |
| 32                         | Dayton, OH         | 1,428        | 255.4                              |
| 33                         | Boston, MA         | 1,332        | 222.7                              |
| 34                         | Corpus Christi, TX | 667          | 212.7                              |
| 35                         | Louisville, KY     | 1,436        | 207.0                              |
| 36                         | Jersey City, NJ    | 489          | 203.3                              |
| 37                         | Omaha, NE          | 934          | 201.5                              |
| 38                         | St Paul, MN        | 560          | 196.7                              |
| 39                         | Austin, TX         | 1,536        | 189.1                              |
| 40                         | Wichita, KS        | 837          | 184.8                              |
| 41                         | Akron, OH          | 962          | 177.2                              |
| 42                         | Houston, TX        | 5,489        | 161.4                              |
| 43                         | Fort Worth, TX     | 2,291        | 158.4                              |
| 44                         | New York City, NY  | 12,614       | 157.5                              |
| 45                         | Oakland, CA        | 2,039        | 154.5                              |
| 46                         | San Antonio, TX    | 2,140        | 153.6                              |
| 47                         | Tampa, FL          | 1,517        | 151.9                              |
| 48                         | St Petersburg, FL  | 1,391        | 151.0                              |
| 49                         | Pittsburgh, PA     | 1,916        | 149.5                              |
| 50                         | Portland, OR       | 743          | 142.6                              |
| 51                         | Albuquerque, NM    | 647          | 116.2                              |
| 52                         | Sacramento, CA     | 1,171        | 95.7                               |
| 53                         | Phoenix, AZ        | 2,826        | 92.0                               |
| 54                         | Seattle, WA        | 1,556        | 89.6                               |
| 55                         | Tucson, AZ         | 748          | 88.7                               |
| 56                         | Miami, FL          | 1,964        | 87.2                               |
| 57                         | Los Angeles, CA    | 7,747        | 86.9                               |
| 58                         | Des Moines, IA     | 270          | 72.1                               |
| 59                         | Yonkers, NY        | 143          | 72.0                               |
| 60                         | San Diego, CA      | 1,878        | 66.7                               |
| 61                         | Honolulu, HI       | 557          | 63.6                               |
| 62                         | El Paso, TX        | 291          | 42.8                               |
| 63                         | San Jose, CA       | 547          | 32.5                               |
| <b>YEAR 2010 OBJECTIVE</b> |                    |              | <b>19.0</b>                        |

\*Excludes outlying areas (San Juan, PR, with 281 cases and rate of 27.5).

<sup>1</sup>Cities were ranked in descending order by rate, number of cases, and alphabetically by state.

**Table 18. Gonorrhea — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001**

| City               | Cases   |         |         |         |         | Rates per 100,000 Population |         |       |       |         |
|--------------------|---------|---------|---------|---------|---------|------------------------------|---------|-------|-------|---------|
|                    | 1997    | 1998    | 1999    | 2000    | 2001    | 1997                         | 1998    | 1999  | 2000  | 2001    |
| Akron, OH          | 669     | 823     | 848     | 913     | 962     | 125.8                        | 153.1   | 157.7 | 168.2 | 177.2   |
| Albuquerque, NM    | 544     | 570     | 472     | 697     | 647     | 103.4                        | 108.4   | 90.2  | 125.2 | 116.2   |
| Atlanta, GA        | 5,468   | 5,599   | 5,631   | 3,456   | 4,621   | 756.8                        | 757.3   | 756.0 | 423.5 | 566.3   |
| Austin, TX         | 1,531   | 1,803   | 1,562   | 1,518   | 1,536   | 220.7                        | 253.7   | 214.8 | 186.9 | 189.1   |
| Baltimore, MD      | 6,693   | 6,989   | 6,124   | 5,603   | 5,014   | 1,018.3                      | 1,082.6 | 967.9 | 860.5 | 770.0   |
| Birmingham, AL     | 3,104   | 3,172   | 2,492   | 3,018   | 2,600   | 471.3                        | 481.0   | 379.1 | 455.9 | 392.7   |
| Boston, MA         | 939     | 982     | 900     | 1,229   | 1,332   | 168.5                        | 176.5   | 161.8 | 205.5 | 222.7   |
| Buffalo, NY        | 1,172   | 1,108   | 1,233   | 1,572   | 2,194   | 366.0                        | 349.8   | 392.8 | 488.0 | 681.1   |
| Charlotte, NC      | 1,703   | 1,911   | 1,908   | 1,758   | 2,014   | 277.7                        | 302.9   | 294.3 | 252.8 | 289.6   |
| Chicago, IL        | 12,316  | 14,143  | 15,169  | 14,872  | 14,326  | 422.6                        | 474.8   | 509.0 | 481.9 | 464.2   |
| Cincinnati, OH     | 2,552   | 3,583   | 2,814   | 3,227   | 3,178   | 299.7                        | 422.8   | 334.8 | 381.8 | 376.0   |
| Cleveland, OH      | 2,743   | 3,030   | 3,391   | 3,497   | 3,854   | 197.8                        | 219.5   | 247.2 | 250.9 | 276.5   |
| Columbus, OH       | 2,218   | 3,082   | 3,120   | 3,386   | 3,349   | 218.0                        | 301.8   | 303.6 | 316.8 | 313.3   |
| Corpus Christi, TX | 351     | 449     | 524     | 775     | 667     | 110.6                        | 141.9   | 166.1 | 247.1 | 212.7   |
| Dallas, TX         | 6,645   | 7,421   | 7,476   | 7,315   | 6,166   | 328.4                        | 361.8   | 362.5 | 329.7 | 277.9   |
| Dayton, OH         | 1,070   | 1,092   | 932     | 1,015   | 1,428   | 190.6                        | 195.5   | 164.7 | 181.6 | 255.4   |
| Denver, CO         | 1,140   | 973     | 1,157   | 1,594   | 1,618   | 228.5                        | 195.0   | 231.5 | 287.4 | 291.7   |
| Des Moines, IA     | 330     | 371     | 333     | 380     | 270     | 93.2                         | 103.1   | 91.3  | 101.4 | 72.1    |
| Detroit, MI        | 7,518   | 8,459   | 7,900   | 9,610   | 8,220   | 690.3                        | 671.2   | 630.3 | 783.6 | 670.3   |
| El Paso, TX        | 155     | 252     | 156     | 209     | 291     | 22.1                         | 35.8    | 22.2  | 30.8  | 42.8    |
| Fort Worth, TX     | 1,759   | 3,310   | 2,847   | 2,787   | 2,291   | 132.5                        | 244.2   | 205.9 | 192.7 | 158.4   |
| Honolulu, HI       | 484     | 481     | 430     | 433     | 557     | 55.6                         | 55.1    | 49.7  | 49.4  | 63.6    |
| Houston, TX        | 6,606   | 7,226   | 5,939   | 5,918   | 5,489   | 209.2                        | 225.4   | 182.7 | 174.0 | 161.4   |
| Indianapolis, IN   | 2,912   | 3,071   | 3,045   | 3,206   | 3,383   | 357.9                        | 377.5   | 375.5 | 372.6 | 393.2   |
| Jacksonville, FL   | 2,089   | 2,463   | 2,972   | 3,640   | 2,731   | 285.1                        | 334.8   | 402.4 | 467.3 | 350.6   |
| Jersey City, NJ    | 373     | 491     | 490     | 465     | 489     | 171.2                        | 223.1   | 224.4 | 193.3 | 203.3   |
| Kansas City, MO    | 1,872   | 2,538   | 1,956   | 2,688   | 2,161   | 418.7                        | 561.6   | 433.1 | 594.9 | 478.2   |
| Los Angeles, CA    | 5,810   | 5,986   | 6,054   | 7,307   | 7,747   | 67.9                         | 69.4    | 69.3  | 82.0  | 86.9    |
| Louisville, KY     | 1,817   | 1,462   | 1,195   | 1,200   | 1,436   | 270.9                        | 217.5   | 177.6 | 173.0 | 207.0   |
| Memphis, TN        | 4,876   | 5,235   | 5,038   | 4,941   | 4,420   | 563.1                        | 602.5   | 577.1 | 550.5 | 492.5   |
| Miami, FL          | 2,168   | 2,573   | 2,775   | 1,995   | 1,964   | 106.0                        | 119.5   | 127.5 | 88.5  | 87.2    |
| Milwaukee, WI      | 3,303   | 4,856   | 4,884   | 5,146   | 4,150   | 363.4                        | 532.6   | 538.9 | 547.4 | 441.4   |
| Minneapolis, MN    | 1,430   | 1,562   | 1,558   | 1,577   | 1,295   | 373.0                        | 428.5   | 425.5 | 410.7 | 337.3   |
| Nashville, TN      | 2,050   | 1,777   | 1,785   | 2,404   | 1,625   | 384.1                        | 332.8   | 336.8 | 421.8 | 285.1   |
| New Orleans, LA    | 2,743   | 2,691   | 2,687   | 3,015   | 3,160   | 584.8                        | 578.0   | 583.0 | 622.1 | 652.0   |
| New York City, NY  | 15,592  | 12,097  | 12,210  | 11,669  | 12,614  | 212.3                        | 163.0   | 164.4 | 145.7 | 157.5   |
| Newark, NJ         | 1,967   | 1,781   | 1,741   | 1,558   | 1,798   | 691.2                        | 626.3   | 614.7 | 518.0 | 597.8   |
| Norfolk, VA        | 1,466   | 1,415   | 1,291   | 1,490   | 1,450   | 639.1                        | 657.5   | 571.6 | 635.7 | 618.6   |
| Oakland, CA        | 1,559   | 1,742   | 1,700   | 1,793   | 2,039   | 124.4                        | 136.1   | 131.4 | 135.9 | 154.5   |
| Oklahoma City, OK  | 982     | 1,571   | 1,351   | 1,434   | 1,617   | 222.9                        | 385.4   | 329.6 | 337.2 | 380.2   |
| Omaha, NE          | 813     | 871     | 1,000   | 1,161   | 934     | 184.4                        | 196.3   | 224.1 | 250.4 | 201.5   |
| Philadelphia, PA   | 6,504   | 7,271   | 7,775   | 8,198   | 8,096   | 448.1                        | 506.2   | 548.5 | 540.2 | 533.5   |
| Phoenix, AZ        | 3,007   | 3,543   | 3,586   | 3,195   | 2,826   | 111.5                        | 127.3   | 125.3 | 104.0 | 92.0    |
| Pittsburgh, PA     | 1,026   | 1,351   | 1,573   | 1,494   | 1,916   | 80.1                         | 106.5   | 125.2 | 116.6 | 149.5   |
| Portland, OR       | 478     | 527     | 540     | 681     | 743     | 97.0                         | 105.8   | 108.1 | 130.7 | 142.6   |
| Richmond, VA       | 1,465   | 1,527   | 1,827   | 1,752   | 2,109   | 761.5                        | 786.4   | 963.1 | 885.8 | 1,066.3 |
| Rochester, NY      | 1,867   | 1,992   | 2,037   | 2,142   | 1,769   | 774.1                        | 827.9   | 851.0 | 866.9 | 716.0   |
| Sacramento, CA     | 1,380   | 1,546   | 1,236   | 1,295   | 1,171   | 122.6                        | 135.1   | 104.3 | 105.8 | 95.7    |
| San Antonio, TX    | 1,751   | 1,862   | 2,087   | 2,298   | 2,140   | 131.4                        | 137.6   | 152.0 | 165.0 | 153.6   |
| San Diego, CA      | 1,509   | 1,595   | 1,561   | 1,798   | 1,878   | 55.4                         | 57.4    | 55.3  | 63.9  | 66.7    |
| San Francisco, CA  | 1,510   | 1,858   | 1,606   | 2,161   | 2,053   | 206.2                        | 249.1   | 215.1 | 278.2 | 264.3   |
| San Jose, CA       | 471     | 453     | 418     | 446     | 547     | 29.3                         | 27.6    | 25.4  | 26.5  | 32.5    |
| Seattle, WA        | 918     | 975     | 922     | 1,221   | 1,556   | 56.2                         | 58.9    | 55.4  | 70.3  | 89.6    |
| St Louis, MO       | 2,806   | 3,652   | 2,876   | 2,879   | 3,185   | 820.8                        | 1,076.3 | 861.2 | 826.8 | 914.7   |
| St Paul, MN        | 383     | 519     | 545     | 703     | 560     | 138.7                        | 191.9   | 201.2 | 247.0 | 196.7   |
| St Petersburg, FL  | 1,201   | 1,468   | 1,835   | 1,542   | 1,391   | 137.8                        | 167.2   | 208.9 | 167.3 | 151.0   |
| Tampa, FL          | 2,246   | 1,696   | 1,783   | 1,653   | 1,517   | 247.0                        | 183.3   | 189.6 | 165.5 | 151.9   |
| Toledo, OH         | 346     | 655     | 624     | 864     | 1,187   | 76.7                         | 146.0   | 139.8 | 189.9 | 260.8   |
| Tucson, AZ         | 575     | 403     | 415     | 591     | 748     | 73.7                         | 51.0    | 51.6  | 70.0  | 88.7    |
| Tulsa, OK          | 618     | 1,308   | 964     | 892     | 1,014   | 160.2                        | 343.8   | 251.2 | 226.2 | 257.2   |
| Washington, DC     | 4,557   | 4,508   | 3,536   | 2,706   | 2,883   | 861.5                        | 861.7   | 681.3 | 473.0 | 504.0   |
| Wichita, KS        | 614     | 466     | 771     | 675     | 837     | 140.0                        | 104.0   | 170.7 | 149.0 | 184.8   |
| Yonkers, NY        | 79      | 105     | 102     | 109     | 143     | 41.0                         | 54.4    | 52.4  | 54.9  | 72.0    |
| U.S. CITY TOTAL    | 156,843 | 170,291 | 165,709 | 170,766 | 167,906 | 225.1                        | 241.4   | 233.5 | 231.2 | 227.4   |
| San Juan, PR       | 233     | 227     | 179     | 270     | 281     | 26.7                         | 21.7    | 17.0  | 26.5  | 27.5    |
| TOTAL              | 157,076 | 170,518 | 165,888 | 171,036 | 168,187 | 222.6                        | 238.2   | 230.3 | 228.4 | 224.6   |

**Table 19. Gonorrhea — Women — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001**

| City                         | Cases  |        |        |        |        | Rates per 100,000 Population |       |       |       |       |
|------------------------------|--------|--------|--------|--------|--------|------------------------------|-------|-------|-------|-------|
|                              | 1997   | 1998   | 1999   | 2000   | 2001   | 1997                         | 1998  | 1999  | 2000  | 2001  |
| Akron, OH                    | 356    | 435    | 413    | 463    | 484    | 128.9                        | 155.4 | 147.5 | 164.5 | 172.0 |
| Albuquerque, NM              | 306    | 308    | 234    | 323    | 254    | 113.7                        | 114.2 | 87.1  | 113.4 | 89.2  |
| Atlanta, GA                  | 2,544  | 2,462  | 2,443  | 1,543  | 2,110  | 674.9                        | 636.8 | 627.6 | 372.5 | 509.3 |
| Austin, TX                   | 860    | 894    | 768    | 712    | 722    | 247.5                        | 250.2 | 210.1 | 179.6 | 182.1 |
| Baltimore, MD                | 3,279  | 3,258  | 2,702  | 2,578  | 2,423  | 933.0                        | 945.7 | 800.8 | 741.9 | 697.3 |
| Birmingham, AL               | 1,567  | 1,555  | 1,229  | 1,552  | 1,420  | 447.3                        | 442.0 | 350.6 | 443.5 | 405.8 |
| Boston, MA                   | 445    | 477    | 410    | 618    | 623    | 154.3                        | 165.4 | 142.4 | 199.6 | 201.2 |
| Buffalo, NY                  | 720    | 682    | 725    | 914    | 1,212  | 431.4                        | 412.8 | 443.9 | 543.7 | 721.0 |
| Charlotte, NC                | 644    | 830    | 754    | 748    | 830    | 203.0                        | 253.7 | 224.0 | 211.3 | 234.5 |
| Chicago, IL                  | 5,738  | 6,345  | 6,821  | 6,525  | 6,924  | 380.7                        | 410.1 | 440.4 | 409.9 | 435.0 |
| Cincinnati, OH               | 1,515  | 2,044  | 1,600  | 1,868  | 1,743  | 338.6                        | 458.0 | 361.2 | 422.3 | 394.0 |
| Cleveland, OH                | 1,573  | 1,672  | 1,779  | 1,697  | 1,816  | 214.4                        | 228.6 | 244.6 | 230.7 | 246.9 |
| Columbus, OH                 | 1,214  | 1,584  | 1,575  | 1,798  | 1,696  | 230.7                        | 299.1 | 295.3 | 327.1 | 308.5 |
| Corpus Christi, TX           | 163    | 181    | 224    | 355    | 349    | 100.8                        | 111.3 | 138.1 | 221.7 | 217.9 |
| Dallas, TX                   | 3,319  | 3,591  | 3,616  | 3,494  | 3,103  | 323.4                        | 344.4 | 345.1 | 314.6 | 279.4 |
| Dayton, OH                   | 502    | 490    | 393    | 430    | 722    | 172.0                        | 168.2 | 133.0 | 147.9 | 248.4 |
| Denver, CO                   | 577    | 463    | 515    | 714    | 717    | 225.1                        | 180.8 | 200.8 | 260.2 | 261.3 |
| Des Moines, IA               | 160    | 189    | 161    | 200    | 144    | 86.9                         | 100.7 | 84.7  | 103.7 | 74.7  |
| Detroit, MI                  | 3,583  | 4,147  | 3,706  | 4,737  | 4,336  | 626.0                        | 625.4 | 561.5 | 742.5 | 679.6 |
| El Paso, TX                  | 76     | 123    | 78     | 96     | 148    | 21.1                         | 33.6  | 21.2  | 27.3  | 42.1  |
| Fort Worth, TX               | 1,014  | 1,743  | 1,405  | 1,346  | 1,153  | 150.8                        | 254.0 | 201.0 | 184.3 | 157.9 |
| Honolulu, HI                 | 252    | 262    | 231    | 217    | 269    | 58.2                         | 60.0  | 53.3  | 49.8  | 61.7  |
| Houston, TX                  | 3,082  | 3,285  | 2,699  | 2,986  | 2,674  | 194.3                        | 203.1 | 164.7 | 175.0 | 156.7 |
| Indianapolis, IN             | 1,401  | 1,532  | 1,601  | 1,516  | 1,751  | 329.0                        | 359.3 | 376.3 | 341.1 | 394.0 |
| Jacksonville, FL             | 1,009  | 898    | 1,238  | 1,599  | 1,200  | 267.1                        | 236.3 | 323.8 | 398.7 | 299.2 |
| Jersey City, NJ              | 204    | 231    | 228    | 211    | 234    | 181.8                        | 202.9 | 201.9 | 172.4 | 191.2 |
| Kansas City, MO              | 1,072  | 1,382  | 1,045  | 1,242  | 1,039  | 459.3                        | 583.5 | 441.8 | 530.3 | 443.6 |
| Los Angeles, CA              | 2,645  | 2,792  | 2,835  | 3,072  | 3,469  | 61.7                         | 64.2  | 64.3  | 68.2  | 77.0  |
| Louisville, KY               | 745    | 624    | 494    | 510    | 640    | 211.1                        | 176.0 | 139.1 | 140.9 | 176.8 |
| Memphis, TN                  | 2,175  | 2,259  | 2,163  | 2,225  | 2,070  | 480.2                        | 495.4 | 472.1 | 474.6 | 441.5 |
| Miami, FL                    | 987    | 1,053  | 1,152  | 750    | 775    | 93.0                         | 93.5  | 101.1 | 64.4  | 66.6  |
| Milwaukee, WI                | 1,707  | 2,862  | 2,783  | 3,057  | 2,540  | 358.4                        | 597.5 | 582.5 | 624.4 | 518.8 |
| Minneapolis, MN              | 737    | 806    | 781    | 725    | 625    | 374.1                        | 429.4 | 414.2 | 371.9 | 320.6 |
| Nashville, TN                | 845    | 718    | 736    | 1,016  | 752    | 302.1                        | 255.8 | 264.2 | 345.5 | 255.8 |
| New Orleans, LA              | 1,226  | 1,158  | 1,198  | 1,325  | 1,310  | 487.5                        | 463.1 | 484.2 | 514.4 | 508.6 |
| New York City, NY            | 9,101  | 6,791  | 6,402  | 6,051  | 6,671  | 234.6                        | 172.7 | 162.9 | 143.6 | 158.3 |
| Newark, NJ                   | 848    | 794    | 806    | 692    | 881    | 566.7                        | 530.5 | 541.0 | 438.8 | 558.6 |
| Norfolk, VA                  | 636    | 593    | 542    | 646    | 662    | 571.1                        | 541.8 | 495.9 | 563.8 | 577.8 |
| Oakland, CA                  | 901    | 987    | 950    | 992    | 1,062  | 141.7                        | 151.9 | 144.9 | 147.8 | 158.2 |
| Oklahoma City, OK            | 503    | 839    | 721    | 839    | 909    | 220.6                        | 395.8 | 338.6 | 383.2 | 415.1 |
| Omaha, NE                    | 456    | 494    | 546    | 626    | 518    | 200.3                        | 215.0 | 236.4 | 264.3 | 218.7 |
| Philadelphia, PA             | 3,507  | 3,938  | 4,179  | 4,288  | 4,421  | 451.2                        | 511.1 | 549.2 | 527.8 | 544.2 |
| Phoenix, AZ                  | 1,209  | 1,415  | 1,434  | 1,325  | 1,169  | 88.8                         | 100.4 | 99.1  | 86.3  | 76.1  |
| Pittsburgh, PA               | 543    | 788    | 920    | 826    | 1,045  | 79.9                         | 116.9 | 137.7 | 122.4 | 154.9 |
| Portland, OR                 | 203    | 246    | 250    | 303    | 268    | 80.6                         | 96.7  | 98.0  | 115.1 | 101.8 |
| Richmond, VA                 | 650    | 752    | 956    | 783    | 1,016  | 618.6                        | 704.5 | 916.9 | 740.6 | 961.0 |
| Rochester, NY                | 959    | 1,031  | 1,047  | 1,102  | 947    | 768.4                        | 827.4 | 845.9 | 860.8 | 739.7 |
| Sacramento, CA               | 765    | 869    | 692    | 702    | 619    | 132.7                        | 148.9 | 114.6 | 112.4 | 99.1  |
| San Antonio, TX              | 955    | 1,012  | 1,113  | 1,187  | 1,124  | 139.2                        | 144.3 | 156.6 | 165.9 | 157.1 |
| San Diego, CA                | 660    | 688    | 653    | 702    | 685    | 48.9                         | 49.5  | 46.6  | 50.2  | 49.0  |
| San Francisco, CA            | 298    | 402    | 381    | 412    | 360    | 80.3                         | 106.8 | 101.1 | 107.9 | 94.3  |
| San Jose, CA                 | 205    | 224    | 190    | 174    | 198    | 25.7                         | 27.5  | 23.3  | 21.0  | 23.9  |
| Seattle, WA                  | 403    | 324    | 331    | 448    | 572    | 48.9                         | 38.6  | 39.2  | 51.3  | 65.6  |
| St Louis, MO                 | 1,409  | 1,685  | 1,510  | 1,426  | 1,620  | 758.6                        | 916.7 | 834.8 | 772.4 | 877.5 |
| St Paul, MN                  | 203    | 278    | 276    | 411    | 335    | 141.4                        | 196.9 | 195.2 | 278.7 | 227.2 |
| St Petersburg, FL            | 648    | 738    | 942    | 739    | 651    | 139.8                        | 158.7 | 202.5 | 153.2 | 134.9 |
| Tampa, FL                    | 1,214  | 886    | 942    | 823    | 758    | 260.9                        | 186.5 | 195.1 | 161.3 | 148.6 |
| Toledo, OH                   | 162    | 350    | 388    | 487    | 713    | 68.9                         | 149.5 | 166.3 | 206.1 | 301.7 |
| Tucson, AZ                   | 285    | 175    | 179    | 257    | 346    | 71.8                         | 43.3  | 43.6  | 59.6  | 80.2  |
| Tulsa, OK                    | 299    | 728    | 527    | 494    | 503    | 150.1                        | 369.2 | 265.3 | 243.3 | 247.7 |
| Washington, DC               | 1,919  | 1,904  | 1,509  | 1,271  | 1,241  | 683.5                        | 684.7 | 546.8 | 419.9 | 410.0 |
| Wichita, KS                  | 321    | 243    | 452    | 358    | 473    | 143.7                        | 106.1 | 196.0 | 156.3 | 206.6 |
| Yonkers, NY                  | 35     | 55     | 73     | 64     | 81     | 34.8                         | 54.3  | 71.7  | 61.8  | 78.2  |
| U.S. CITY TOTAL <sup>1</sup> | 77,539 | 82,564 | 79,646 | 81,590 | 82,125 | 216.3                        | 226.8 | 217.5 | 215.6 | 217.0 |
| San Juan, PR                 | 83     | 85     | 73     | 105    | 114    | 17.3                         | 15.6  | 13.3  | 19.8  | 21.5  |
| TOTAL                        | 77,622 | 82,649 | 79,719 | 81,695 | 82,239 | 213.7                        | 223.7 | 214.5 | 212.9 | 214.3 |

<sup>1</sup>Cases reported with unknown sex are not included in this table.

**Table 20. Gonorrhea — Men – Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001**

| City                         | Cases  |        |        |        |        | Rates per 100,000 Population |         |         |         |         |
|------------------------------|--------|--------|--------|--------|--------|------------------------------|---------|---------|---------|---------|
|                              | 1997   | 1998   | 1999   | 2000   | 2001   | 1997                         | 1998    | 1999    | 2000    | 2001    |
| Akron, OH                    | 310    | 380    | 429    | 446    | 474    | 121.3                        | 147.4   | 166.4   | 170.6   | 181.3   |
| Albuquerque, NM              | 238    | 262    | 237    | 367    | 380    | 92.6                         | 102.3   | 93.0    | 135.0   | 139.8   |
| Atlanta, GA                  | 2,917  | 3,118  | 3,172  | 1,910  | 2,510  | 844.0                        | 884.0   | 892.2   | 475.4   | 624.8   |
| Austin, TX                   | 671    | 905    | 792    | 804    | 814    | 193.9                        | 256.1   | 219.1   | 193.3   | 195.7   |
| Baltimore, MD                | 3,414  | 3,714  | 3,410  | 2,961  | 2,591  | 1,116.4                      | 1,233.5 | 1,154.8 | 975.0   | 853.2   |
| Birmingham, AL               | 1,531  | 1,614  | 1,258  | 1,439  | 1,177  | 496.6                        | 524.5   | 409.9   | 461.1   | 377.1   |
| Boston, MA                   | 494    | 505    | 490    | 611    | 709    | 183.6                        | 188.4   | 182.6   | 211.8   | 245.8   |
| Buffalo, NY                  | 452    | 426    | 508    | 658    | 982    | 294.9                        | 281.1   | 337.4   | 427.1   | 637.5   |
| Charlotte, NC                | 1,059  | 1,081  | 1,154  | 1,010  | 1,184  | 357.8                        | 356.0   | 370.0   | 295.8   | 346.7   |
| Chicago, IL                  | 6,578  | 7,797  | 8,338  | 8,346  | 7,400  | 467.5                        | 544.6   | 582.5   | 558.5   | 495.2   |
| Cincinnati, OH               | 1,023  | 1,518  | 1,193  | 1,343  | 1,417  | 253.1                        | 378.4   | 300.1   | 333.3   | 351.6   |
| Cleveland, OH                | 1,153  | 1,347  | 1,589  | 1,777  | 2,019  | 176.5                        | 207.5   | 246.6   | 269.9   | 306.6   |
| Columbus, OH                 | 997    | 1,488  | 1,523  | 1,561  | 1,618  | 203.0                        | 302.6   | 308.1   | 300.6   | 311.6   |
| Corpus Christi, TX           | 188    | 268    | 300    | 420    | 318    | 120.7                        | 174.3   | 195.7   | 273.6   | 207.2   |
| Dallas, TX                   | 3,326  | 3,814  | 3,834  | 3,775  | 3,028  | 333.7                        | 378.3   | 378.1   | 340.6   | 273.2   |
| Dayton, OH                   | 566    | 601    | 539    | 578    | 699    | 210.0                        | 225.1   | 199.4   | 215.4   | 260.5   |
| Denver, CO                   | 563    | 510    | 642    | 880    | 901    | 232.1                        | 209.9   | 263.9   | 314.1   | 321.5   |
| Des Moines, IA               | 170    | 182    | 172    | 180    | 126    | 100.0                        | 105.7   | 98.6    | 99.0    | 69.3    |
| Detroit, MI                  | 3,935  | 4,312  | 4,194  | 4,873  | 3,884  | 761.5                        | 722.1   | 706.8   | 828.2   | 660.1   |
| El Paso, TX                  | 79     | 129    | 78     | 113    | 143    | 23.2                         | 38.3    | 23.3    | 34.5    | 43.6    |
| Fort Worth, TX               | 745    | 1,537  | 1,425  | 1,433  | 1,133  | 113.7                        | 229.7   | 208.5   | 200.1   | 158.2   |
| Honolulu, HI                 | 232    | 219    | 199    | 216    | 288    | 53.1                         | 50.2    | 46.2    | 49.0    | 65.4    |
| Houston, TX                  | 3,524  | 3,937  | 3,193  | 2,928  | 2,809  | 224.1                        | 247.8   | 198.1   | 172.9   | 165.8   |
| Indianapolis, IN             | 1,511  | 1,539  | 1,443  | 1,687  | 1,630  | 389.6                        | 397.7   | 374.3   | 405.5   | 391.8   |
| Jacksonville, FL             | 1,080  | 1,564  | 1,734  | 2,041  | 1,531  | 304.3                        | 439.7   | 486.8   | 540.3   | 405.3   |
| Jersey City, NJ              | 169    | 260    | 262    | 254    | 255    | 160.0                        | 244.7   | 248.5   | 215.0   | 215.9   |
| Kansas City, MO              | 800    | 1,156  | 911    | 1,446  | 1,122  | 374.3                        | 537.4   | 423.6   | 664.4   | 515.5   |
| Los Angeles, CA              | 3,165  | 3,194  | 3,218  | 4,228  | 4,264  | 74.1                         | 74.7    | 74.4    | 96.0    | 96.8    |
| Louisville, KY               | 1,071  | 831    | 699    | 688    | 793    | 337.0                        | 261.7   | 220.0   | 207.5   | 239.1   |
| Memphis, TN                  | 2,701  | 2,976  | 2,875  | 2,716  | 2,350  | 654.0                        | 720.8   | 693.0   | 633.6   | 548.2   |
| Miami, FL                    | 1,181  | 1,518  | 1,618  | 1,245  | 1,189  | 120.1                        | 147.9   | 156.2   | 114.3   | 109.2   |
| Milwaukee, WI                | 1,596  | 1,994  | 2,098  | 2,084  | 1,596  | 368.9                        | 460.8   | 489.6   | 462.5   | 354.2   |
| Minneapolis, MN              | 693    | 756    | 777    | 852    | 670    | 371.9                        | 427.6   | 437.5   | 450.7   | 354.4   |
| Nashville, TN                | 1,205  | 1,059  | 1,049  | 1,388  | 873    | 474.4                        | 418.2   | 417.2   | 503.1   | 316.5   |
| New Orleans, LA              | 1,517  | 1,533  | 1,489  | 1,690  | 1,850  | 697.2                        | 711.5   | 697.4   | 744.2   | 814.6   |
| New York City, NY            | 6,491  | 5,306  | 5,797  | 5,573  | 5,914  | 187.4                        | 152.1   | 165.8   | 146.9   | 155.9   |
| Newark, NJ                   | 1,119  | 987    | 935    | 866    | 917    | 829.2                        | 732.8   | 696.4   | 605.2   | 640.9   |
| Norfolk, VA                  | 828    | 822    | 749    | 841    | 783    | 701.5                        | 777.2   | 642.5   | 701.8   | 653.4   |
| Oakland, CA                  | 658    | 749    | 667    | 783    | 960    | 106.6                        | 118.8   | 104.5   | 120.8   | 148.1   |
| Oklahoma City, OK            | 479    | 732    | 630    | 595    | 708    | 225.3                        | 374.1   | 319.8   | 288.3   | 343.1   |
| Omaha, NE                    | 355    | 376    | 454    | 531    | 415    | 166.4                        | 175.7   | 210.8   | 234.2   | 183.0   |
| Philadelphia, PA             | 2,997  | 3,333  | 3,596  | 3,910  | 3,675  | 444.6                        | 500.6   | 547.6   | 554.5   | 521.2   |
| Phoenix, AZ                  | 1,798  | 2,128  | 2,152  | 1,870  | 1,657  | 134.8                        | 154.8   | 152.2   | 121.7   | 107.8   |
| Pittsburgh, PA               | 483    | 563    | 653    | 668    | 871    | 80.4                         | 94.7    | 110.9   | 110.0   | 143.5   |
| Portland, OR                 | 275    | 281    | 290    | 378    | 475    | 114.2                        | 115.3   | 118.6   | 146.6   | 184.2   |
| Richmond, VA                 | 815    | 775    | 870    | 968    | 1,083  | 933.3                        | 886.4   | 1,018.3 | 1,051.4 | 1,176.3 |
| Rochester, NY                | 908    | 961    | 990    | 1,040  | 822    | 780.3                        | 828.5   | 856.4   | 873.6   | 690.4   |
| Sacramento, CA               | 606    | 673    | 534    | 581    | 543    | 110.3                        | 120.0   | 91.9    | 97.0    | 90.7    |
| San Antonio, TX              | 796    | 846    | 974    | 1,110  | 1,015  | 123.1                        | 129.8   | 147.1   | 163.8   | 149.8   |
| San Diego, CA                | 805    | 883    | 896    | 1,066  | 1,109  | 58.6                         | 63.5    | 63.1    | 75.3    | 78.4    |
| San Francisco, CA            | 1,212  | 1,456  | 1,225  | 1,749  | 1,693  | 335.5                        | 394.3   | 331.2   | 443.0   | 428.8   |
| San Jose, CA                 | 264    | 227    | 224    | 270    | 349    | 32.5                         | 27.4    | 27.0    | 31.7    | 40.9    |
| Seattle, WA                  | 515    | 651    | 591    | 773    | 984    | 63.7                         | 79.8    | 72.0    | 89.4    | 113.8   |
| St Louis, MO                 | 1,397  | 1,967  | 1,366  | 1,453  | 1,565  | 894.8                        | 1,264.8 | 892.4   | 888.3   | 956.8   |
| St Paul, MN                  | 180    | 241    | 269    | 292    | 225    | 135.8                        | 186.4   | 207.8   | 212.9   | 164.0   |
| St Petersburg, FL            | 553    | 728    | 893    | 803    | 740    | 135.4                        | 176.2   | 216.0   | 182.9   | 168.6   |
| Tampa, FL                    | 1,032  | 800    | 841    | 830    | 759    | 232.4                        | 177.7   | 183.8   | 169.8   | 155.3   |
| Toledo, OH                   | 184    | 305    | 235    | 370    | 466    | 85.1                         | 142.3   | 110.2   | 169.1   | 213.0   |
| Tucson, AZ                   | 290    | 228    | 236    | 334    | 402    | 75.7                         | 59.0    | 60.1    | 81.0    | 97.4    |
| Tulsa, OK                    | 319    | 580    | 437    | 398    | 511    | 170.9                        | 316.4   | 236.0   | 208.1   | 267.2   |
| Washington, DC               | 2,637  | 2,604  | 2,014  | 1,430  | 1,627  | 1,062.5                      | 1,062.7 | 828.7   | 530.9   | 604.0   |
| Wichita, KS                  | 293    | 223    | 319    | 317    | 364    | 136.1                        | 101.8   | 144.3   | 141.6   | 162.6   |
| Yonkers, NY                  | 44     | 50     | 29     | 45     | 62     | 47.8                         | 54.4    | 31.2    | 47.4    | 65.3    |
| U.S. CITY TOTAL <sup>1</sup> | 79,187 | 87,519 | 85,708 | 88,792 | 85,421 | 234.0                        | 256.5   | 249.4   | 246.6   | 237.2   |
| San Juan, PR                 | 150    | 142    | 106    | 165    | 167    | 38.2                         | 28.3    | 21.0    | 33.7    | 34.1    |
| TOTAL                        | 79,337 | 87,661 | 85,814 | 88,957 | 85,588 | 231.8                        | 253.1   | 246.1   | 243.7   | 234.5   |

<sup>1</sup>Cases reported with unknown sex are not included in this table.

**Table 21. Gonorrhea — Reported cases and rates per 100,000 population by age and sex: United States, 1997–2001**

| Year | Age Group | Cases   |         |         | Rates |       |        |
|------|-----------|---------|---------|---------|-------|-------|--------|
|      |           | Total   | Male    | Female  | Total | Male  | Female |
| 1997 | 10-14     | 5,740   | 795     | 4,945   | 30.1  | 8.1   | 53.3   |
|      | 15-19     | 99,303  | 33,282  | 66,021  | 520.8 | 338.7 | 714.4  |
|      | 20-24     | 95,811  | 47,006  | 48,806  | 547.1 | 523.5 | 572.0  |
|      | 25-29     | 50,472  | 28,785  | 21,686  | 267.5 | 304.0 | 230.7  |
|      | 30-34     | 30,811  | 19,208  | 11,603  | 148.6 | 185.8 | 111.6  |
|      | 35-39     | 20,609  | 13,917  | 6,692   | 91.1  | 123.3 | 59.0   |
|      | 40-44     | 11,574  | 8,892   | 2,681   | 54.1  | 83.9  | 24.9   |
|      | 45-54     | 8,202   | 6,882   | 1,320   | 24.4  | 41.8  | 7.7    |
|      | 55-64     | 2,046   | 1,801   | 245     | 9.4   | 17.3  | 2.1    |
|      | 65+       | 1,266   | 867     | 399     | 3.7   | 6.2   | 2.0    |
|      | TOTAL     | 326,971 | 161,835 | 165,136 | 122.2 | 123.5 | 120.9  |
| 1998 | 10-14     | 6,143   | 823     | 5,320   | 31.9  | 8.4   | 56.7   |
|      | 15-19     | 105,987 | 34,595  | 71,392  | 542.4 | 344.4 | 752.0  |
|      | 20-24     | 105,999 | 51,501  | 54,498  | 599.7 | 572.5 | 628.0  |
|      | 25-29     | 55,908  | 32,206  | 23,702  | 300.8 | 348.3 | 253.7  |
|      | 30-34     | 32,307  | 20,301  | 12,006  | 160.0 | 202.9 | 117.9  |
|      | 35-39     | 22,874  | 15,578  | 7,296   | 101.1 | 138.4 | 64.2   |
|      | 40-44     | 13,067  | 9,864   | 3,203   | 59.7  | 91.0  | 29.0   |
|      | 45-54     | 9,294   | 7,774   | 1,520   | 26.9  | 46.0  | 8.6    |
|      | 55-64     | 2,177   | 1,938   | 238     | 9.6   | 17.9  | 2.0    |
|      | 65+       | 1,211   | 872     | 339     | 3.5   | 6.1   | 1.7    |
|      | TOTAL     | 356,107 | 175,847 | 180,260 | 131.7 | 133.2 | 130.4  |
| 1999 | 10-14     | 5,954   | 825     | 5,129   | 30.5  | 8.2   | 53.8   |
|      | 15-19     | 104,426 | 34,295  | 70,131  | 528.8 | 337.9 | 730.8  |
|      | 20-24     | 108,741 | 52,735  | 56,007  | 603.3 | 574.3 | 633.4  |
|      | 25-29     | 56,120  | 32,604  | 23,516  | 308.2 | 360.1 | 256.9  |
|      | 30-34     | 32,344  | 20,690  | 11,654  | 164.0 | 211.7 | 117.1  |
|      | 35-39     | 23,441  | 16,217  | 7,224   | 104.0 | 144.6 | 63.8   |
|      | 40-44     | 14,007  | 10,652  | 3,355   | 62.9  | 96.5  | 29.9   |
|      | 45-54     | 10,338  | 8,657   | 1,681   | 28.9  | 49.5  | 9.2    |
|      | 55-64     | 2,356   | 2,122   | 233     | 10.1  | 19.0  | 1.9    |
|      | 65+       | 905     | 722     | 183     | 2.6   | 5.0   | 0.9    |
|      | TOTAL     | 359,716 | 179,913 | 179,803 | 131.9 | 135.0 | 129.0  |
| 2000 | 10-14     | 5,925   | 830     | 5,094   | 28.9  | 7.9   | 50.9   |
|      | 15-19     | 102,043 | 33,312  | 68,731  | 504.7 | 320.6 | 699.3  |
|      | 20-24     | 112,313 | 54,195  | 58,119  | 592.2 | 559.4 | 626.5  |
|      | 25-29     | 55,929  | 32,831  | 23,098  | 288.6 | 335.0 | 241.0  |
|      | 30-34     | 31,814  | 20,603  | 11,211  | 155.1 | 199.6 | 110.0  |
|      | 35-39     | 22,605  | 15,765  | 6,840   | 99.6  | 139.3 | 60.1   |
|      | 40-44     | 13,526  | 10,234  | 3,292   | 60.3  | 92.0  | 29.1   |
|      | 45-54     | 10,344  | 8,669   | 1,676   | 27.5  | 46.9  | 8.7    |
|      | 55-64     | 2,299   | 2,077   | 222     | 9.5   | 17.8  | 1.8    |
|      | 65+       | 897     | 722     | 175     | 2.6   | 5.0   | 0.9    |
|      | TOTAL     | 358,779 | 179,651 | 179,128 | 127.5 | 130.1 | 124.9  |
| 2001 | 10-14     | 6,041   | 862     | 5,179   | 29.4  | 8.2   | 51.8   |
|      | 15-19     | 101,065 | 31,952  | 69,113  | 499.8 | 307.5 | 703.2  |
|      | 20-24     | 116,207 | 54,604  | 61,603  | 612.8 | 563.6 | 664.1  |
|      | 25-29     | 56,083  | 32,181  | 23,902  | 289.4 | 328.4 | 249.4  |
|      | 30-34     | 32,537  | 21,050  | 11,487  | 158.6 | 203.9 | 112.7  |
|      | 35-39     | 21,799  | 15,216  | 6,583   | 96.0  | 134.4 | 57.8   |
|      | 40-44     | 13,605  | 10,072  | 3,533   | 60.6  | 90.5  | 31.2   |
|      | 45-54     | 10,458  | 8,655   | 1,803   | 27.8  | 46.8  | 9.4    |
|      | 55-64     | 2,255   | 2,003   | 252     | 9.3   | 17.2  | 2.0    |
|      | 65+       | 843     | 651     | 192     | 2.4   | 4.5   | 0.9    |
|      | TOTAL     | 361,758 | 177,531 | 184,227 | 128.5 | 128.6 | 128.5  |

NOTE: This table should be used only for age comparisons. This is because, if age was not specified, cases were prorated according to the distribution of cases for which age was known. Differences between total cases from this table and others in the report are due to different reporting forms. The 0 to 9 year age group is not shown because some of these may not be due to sexual transmission; however, they are included in the totals.

This page intentionally left blank.

**Table 22A. Gonorrhea — Reported cases by age, sex, and race/ethnicity: United States, 1997–2001**

| Age<br>Group | Total   |         |         | White, Non-Hispanic |        |        | Black, Non-Hispanic |         |         | Hispanic |        |        | Asian/Pacific Islander |       |        | American Indian/<br>Alaska Native |      |        |     |
|--------------|---------|---------|---------|---------------------|--------|--------|---------------------|---------|---------|----------|--------|--------|------------------------|-------|--------|-----------------------------------|------|--------|-----|
|              | Total   | Male    | Female  | Total               | Male   | Female | Total               | Male    | Female  | Total    | Male   | Female | Total                  | Male  | Female | Total                             | Male | Female |     |
| 1997         | 10-14   | 5,333   | 748     | 4,585               | 832    | 56     | 776                 | 4,103   | 636     | 3,467    | 331    | 49     | 283                    | 21    | 3      | 18                                | 45   | 4      | 41  |
|              | 15-19   | 90,694  | 30,710  | 59,983              | 13,421 | 2,263  | 11,158              | 71,323  | 26,594  | 44,729   | 4,962  | 1,645  | 3,317                  | 389   | 85     | 305                               | 598  | 124    | 475 |
|              | 20-24   | 87,381  | 43,391  | 43,990              | 11,661 | 3,519  | 8,142               | 69,906  | 37,124  | 32,782   | 4,880  | 2,391  | 2,489                  | 442   | 201    | 240                               | 493  | 155    | 337 |
|              | 25-29   | 45,766  | 26,306  | 19,461              | 6,713  | 2,844  | 3,869               | 35,708  | 21,606  | 14,102   | 2,800  | 1,625  | 1,175                  | 264   | 122    | 142                               | 281  | 109    | 173 |
|              | 30-34   | 27,581  | 17,285  | 10,296              | 4,657  | 2,481  | 2,176               | 20,891  | 13,565  | 7,326    | 1,658  | 1,041  | 617                    | 185   | 117    | 68                                | 190  | 82     | 108 |
|              | 35-39   | 18,649  | 12,685  | 5,964               | 3,376  | 1,970  | 1,405               | 14,079  | 9,962   | 4,117    | 1,007  | 661    | 346                    | 82    | 48     | 35                                | 105  | 43     | 62  |
|              | 40-44   | 10,540  | 8,166   | 2,374               | 1,719  | 1,202  | 518                 | 8,215   | 6,564   | 1,650    | 482    | 333    | 149                    | 61    | 37     | 24                                | 63   | 29     | 33  |
|              | 45-54   | 7,385   | 6,254   | 1,131               | 1,348  | 1,064  | 285                 | 5,644   | 4,927   | 717      | 308    | 213    | 96                     | 48    | 33     | 14                                | 36   | 18     | 19  |
|              | 55-64   | 1,818   | 1,605   | 213                 | 341    | 265    | 75                  | 1,374   | 1,258   | 117      | 81     | 68     | 14                     | 11    | 8      | 3                                 | 10   | 6      | 3   |
|              | 65+     | 1,162   | 799     | 363                 | 210    | 137    | 73                  | 877     | 613     | 264      | 70     | 47     | 23                     | 2     | 0      | 2                                 | 2    | 2      | 0   |
| TOTAL        | 297,352 | 148,327 | 149,025 | 44,432              | 15,840 | 28,593 | 232,914             | 123,152 | 109,762 | 16,669   | 8,109  | 8,560  | 1,508                  | 655   | 853    | 1,829                             | 572  | 1,257  |     |
| 1998         | 10-14   | 6,017   | 802     | 5,216               | 835    | 54     | 781                 | 4,780   | 689     | 4,091    | 329    | 52     | 277                    | 23    | 3      | 20                                | 51   | 4      | 46  |
|              | 15-19   | 103,540 | 33,772  | 69,768              | 15,555 | 2,522  | 13,033              | 81,131  | 29,076  | 52,055   | 5,661  | 1,959  | 3,702                  | 458   | 81     | 377                               | 735  | 134    | 601 |
|              | 20-24   | 103,675 | 50,288  | 53,387              | 13,889 | 4,105  | 9,784               | 82,325  | 42,676  | 39,649   | 6,253  | 3,122  | 3,131                  | 572   | 196    | 376                               | 636  | 190    | 446 |
|              | 25-29   | 54,561  | 31,385  | 23,176              | 7,660  | 3,296  | 4,364               | 42,657  | 25,788  | 16,869   | 3,517  | 2,029  | 1,488                  | 355   | 159    | 197                               | 371  | 113    | 259 |
|              | 30-34   | 31,570  | 19,797  | 11,772              | 5,298  | 2,866  | 2,432               | 23,838  | 15,438  | 8,399    | 2,043  | 1,315  | 729                    | 195   | 95     | 100                               | 196  | 83     | 113 |
|              | 35-39   | 22,405  | 15,241  | 7,163               | 3,915  | 2,395  | 1,520               | 16,938  | 11,865  | 5,074    | 1,259  | 837    | 422                    | 140   | 82     | 58                                | 152  | 63     | 89  |
|              | 40-44   | 12,805  | 9,651   | 3,153               | 2,105  | 1,394  | 711                 | 9,915   | 7,731   | 2,184    | 627    | 432    | 195                    | 75    | 48     | 27                                | 82   | 47     | 35  |
|              | 45-54   | 9,080   | 7,589   | 1,490               | 1,535  | 1,177  | 358                 | 7,005   | 6,038   | 967      | 437    | 312    | 125                    | 45    | 23     | 23                                | 58   | 41     | 17  |
|              | 55-64   | 2,127   | 1,891   | 236                 | 396    | 344    | 53                  | 1,598   | 1,450   | 148      | 107    | 82     | 25                     | 11    | 6      | 4                                 | 16   | 10     | 6   |
|              | 65+     | 1,186   | 854     | 333                 | 231    | 159    | 73                  | 854     | 633     | 220      | 77     | 57     | 20                     | 9     | 3      | 6                                 | 15   | 2      | 14  |
| TOTAL        | 348,069 | 171,650 | 176,419 | 51,581              | 18,354 | 33,227 | 271,884             | 141,684 | 130,199 | 20,390   | 10,219 | 10,170 | 1,892                  | 698   | 1,194  | 2,322                             | 694  | 1,628  |     |
| 1999         | 10-14   | 5,952   | 824     | 5,128               | 842    | 55     | 787                 | 4,666   | 705     | 3,961    | 368    | 60     | 308                    | 35    | 1      | 34                                | 41   | 3      | 39  |
|              | 15-19   | 104,430 | 34,295  | 70,135              | 14,882 | 2,437  | 12,445              | 81,913  | 29,452  | 52,460   | 6,359  | 2,151  | 4,208                  | 562   | 133    | 429                               | 714  | 121    | 592 |
|              | 20-24   | 108,768 | 52,757  | 56,011              | 14,408 | 4,288  | 10,120              | 86,318  | 44,709  | 41,609   | 6,704  | 3,278  | 3,426                  | 673   | 291    | 382                               | 665  | 190    | 475 |
|              | 25-29   | 56,119  | 32,608  | 23,511              | 7,859  | 3,397  | 4,462               | 43,874  | 26,821  | 17,053   | 3,773  | 2,114  | 1,659                  | 316   | 173    | 142                               | 298  | 103    | 195 |
|              | 30-34   | 32,330  | 20,680  | 11,650              | 5,364  | 2,864  | 2,499               | 24,390  | 16,279  | 8,110    | 2,131  | 1,306  | 825                    | 240   | 138    | 102                               | 206  | 93     | 113 |
|              | 35-39   | 23,436  | 16,212  | 7,224               | 4,319  | 2,563  | 1,756               | 17,559  | 12,685  | 4,875    | 1,272  | 815    | 457                    | 146   | 91     | 55                                | 139  | 57     | 82  |
|              | 40-44   | 14,005  | 10,652  | 3,353               | 2,395  | 1,671  | 725                 | 10,832  | 8,492   | 2,340    | 638    | 410    | 228                    | 69    | 38     | 32                                | 70   | 41     | 29  |
|              | 45-54   | 10,336  | 8,656   | 1,680               | 1,817  | 1,387  | 430                 | 7,954   | 6,877   | 1,076    | 432    | 310    | 122                    | 63    | 43     | 20                                | 69   | 39     | 31  |
|              | 55-64   | 2,354   | 2,121   | 233                 | 503    | 432    | 71                  | 1,718   | 1,587   | 131      | 109    | 83     | 26                     | 14    | 11     | 3                                 | 11   | 8      | 3   |
|              | 65+     | 903     | 721     | 183                 | 193    | 151    | 42                  | 634     | 517     | 116      | 62     | 48     | 15                     | 6     | 1      | 4                                 | 9    | 3      | 6   |
| TOTAL        | 359,716 | 179,919 | 179,797 | 52,733              | 19,295 | 33,438 | 280,707             | 148,437 | 132,270 | 21,920   | 10,602 | 11,318 | 2,130                  | 925   | 1,205  | 2,226                             | 660  | 1,566  |     |
| 2000         | 10-14   | 5,923   | 830     | 5,093               | 769    | 50     | 719                 | 4,649   | 689     | 3,960    | 419    | 82     | 336                    | 38    | 1      | 37                                | 48   | 7      | 41  |
|              | 15-19   | 102,044 | 33,310  | 68,734              | 14,608 | 2,576  | 12,032              | 79,244  | 28,108  | 51,137   | 6,877  | 2,315  | 4,563                  | 670   | 180    | 489                               | 644  | 131    | 514 |
|              | 20-24   | 112,328 | 54,207  | 58,121              | 15,597 | 4,831  | 10,766              | 87,435  | 44,977  | 42,459   | 7,757  | 3,762  | 3,995                  | 884   | 431    | 454                               | 655  | 207    | 448 |
|              | 25-29   | 55,930  | 32,836  | 23,094              | 7,898  | 3,373  | 4,524               | 42,931  | 26,572  | 16,359   | 4,175  | 2,417  | 1,758                  | 565   | 351    | 214                               | 361  | 123    | 238 |
|              | 30-34   | 31,809  | 20,601  | 11,207              | 5,802  | 3,190  | 2,612               | 23,063  | 15,542  | 7,521    | 2,347  | 1,482  | 865                    | 378   | 274    | 104                               | 219  | 114    | 105 |
|              | 35-39   | 22,602  | 15,763  | 6,838               | 4,689  | 2,969  | 1,720               | 16,039  | 11,591  | 4,448    | 1,445  | 933    | 512                    | 251   | 181    | 70                                | 178  | 89     | 89  |
|              | 40-44   | 13,524  | 10,234  | 3,290               | 2,724  | 1,840  | 884                 | 9,909   | 7,796   | 2,114    | 668    | 449    | 219                    | 126   | 96     | 30                                | 96   | 52     | 44  |
|              | 45-54   | 10,342  | 8,669   | 1,674               | 2,038  | 1,572  | 465                 | 7,576   | 6,567   | 1,009    | 560    | 414    | 146                    | 103   | 73     | 29                                | 66   | 41     | 25  |
|              | 55-64   | 2,298   | 2,077   | 222                 | 495    | 436    | 59                  | 1,636   | 1,513   | 123      | 115    | 91     | 24                     | 30    | 19     | 11                                | 22   | 17     | 5   |
|              | 65+     | 896     | 722     | 175                 | 190    | 144    | 46                  | 641     | 527     | 114      | 51     | 45     | 6                      | 2     | 0      | 2                                 | 13   | 6      | 7   |
| TOTAL        | 358,779 | 179,662 | 179,117 | 54,964              | 21,039 | 33,925 | 273,928             | 144,191 | 129,737 | 24,512   | 12,030 | 12,481 | 3,056                  | 1,609 | 1,447  | 2,319                             | 793  | 1,526  |     |
| 2001         | 10-14   | 6,040   | 861     | 5,179               | 855    | 57     | 798                 | 4,646   | 715     | 3,932    | 440    | 80     | 360                    | 53    | 6      | 47                                | 46   | 3      | 43  |
|              | 15-19   | 101,065 | 31,949  | 69,116              | 14,961 | 2,611  | 12,351              | 77,554  | 26,692  | 50,862   | 7,095  | 2,312  | 4,783                  | 763   | 205    | 559                               | 692  | 130    | 562 |
|              | 20-24   | 116,226 | 54,619  | 61,607              | 16,997 | 5,390  | 11,607              | 89,154  | 44,621  | 44,533   | 8,416  | 4,024  | 4,393                  | 881   | 354    | 526                               | 778  | 231    | 547 |
|              | 25-29   | 56,084  | 32,186  | 23,899              | 8,535  | 3,610  | 4,924               | 42,275  | 25,705  | 16,570   | 4,418  | 2,464  | 1,954                  | 512   | 281    | 231                               | 344  | 124    | 219 |
|              | 30-34   | 32,531  | 21,049  | 11,482              | 6,106  | 3,461  | 2,645               | 23,242  | 15,644  | 7,597    | 2,636  | 1,646  | 990                    | 327   | 205    | 122                               | 220  | 93     | 127 |
|              | 35-39   | 21,794  | 15,213  | 6,581               | 4,720  | 3,026  | 1,694               | 15,136  | 10,957  | 4,178    | 1,630  | 1,055  | 575                    | 160   | 116    | 44                                | 149  | 59     | 90  |
|              | 40-44   | 13,603  | 10,072  | 3,531               | 2,882  | 1,924  | 958                 | 9,749   | 7,496   | 2,253    | 759    | 513    | 246                    | 111   | 92     | 19                                | 101  | 46     | 55  |
|              | 45-54   | 10,455  | 8,654   | 1,801               | 2,364  | 1,796  | 568                 | 7,386   | 6,356   | 1,030    | 542    | 398    | 144                    | 84    | 60     | 25                                | 79   | 45     | 34  |
|              | 55-64   | 2,254   | 2,003   | 251                 | 583    | 510    | 73                  | 1,510   | 1,374   | 136      | 124    | 90     | 33                     | 23    | 16     | 7                                 | 14   | 12     | 2   |
|              | 65+     | 842     | 650     | 192                 | 207    | 163    | 44                  | 554     | 443     | 111      | 57     | 29     | 28                     | 17    | 11     | 6                                 | 7    | 3      | 4   |
| TOTAL        | 361,758 | 177,541 | 184,217 | 58,323              | 22,585 | 35,738 | 271,871             | 140,235 | 131,636 | 26,190   | 12,624 | 13,566 | 2,935                  | 1,348 | 1,588  | 2,439                             | 751  | 1,689  |     |

NOTE: These tables should be used only for race/ethnicity comparisons, not for age, sex or overall totals. This is because, if age or race/ethnicity was not specified, cases were prorated according to the distribution of cases for which these variables were specified. For the following years, the states listed did not report age and/or race/ethnicity for most cases and were excluded: 1997 (ID, NJ, NY); 1998 (ID, NJ). Cases and population denominators have been excluded for these states/areas. Differences between total cases from this table and others in the report are due to different reporting forms and above listed exclusions. The 0 to 9 year age group is not shown because some of these may not be due to sexual transmission; however, they are included in the totals.

**Table 22B. Gonorrhea — Reported rates per 100,000 population by age, sex, and race/ethnicity: United States, 1997–2001**

| Age Group    | Total        |              |              | White, Non-Hispanic |             |             | Black, Non-Hispanic |              |              | Hispanic    |             |             | Asian/Pacific Islander |             |             | American Indian/<br>Alaska Native |             |              |
|--------------|--------------|--------------|--------------|---------------------|-------------|-------------|---------------------|--------------|--------------|-------------|-------------|-------------|------------------------|-------------|-------------|-----------------------------------|-------------|--------------|
|              | Total        | Male         | Female       | Total               | Male        | Female      | Total               | Male         | Female       | Total       | Male        | Female      | Total                  | Male        | Female      | Total                             | Male        | Female       |
| 10-14        | 31.0         | 8.5          | 54.7         | 7.1                 | 0.9         | 13.7        | 164.8               | 50.3         | 282.9        | 14.8        | 4.2         | 25.9        | 3.3                    | 0.9         | 5.8         | 23.3                              | 4.1         | 43.1         |
| 15-19        | 525.0        | 344.9        | 716.7        | 114.9               | 37.6        | 196.9       | 2,822.8             | 2,073.6      | 3,595.0      | 216.3       | 135.0       | 308.6       | 65.4                   | 28.1        | 103.7       | 337.0                             | 138.9       | 536.7        |
| 20-24        | 551.8        | 533.9        | 570.5        | 110.2               | 65.1        | 157.3       | 3,176.1             | 3,418.0      | 2,940.4      | 213.3       | 191.1       | 240.1       | 71.7                   | 65.2        | 78.2        | 331.0                             | 207.5       | 456.2        |
| 25-29        | 269.5        | 308.4        | 230.3        | 57.6                | 48.9        | 66.3        | 1,633.6             | 2,076.0      | 1,231.6      | 123.8       | 130.8       | 115.3       | 36.2                   | 35.1        | 37.3        | 187.8                             | 141.6       | 236.4        |
| 30-34        | 148.7        | 186.8        | 110.8        | 35.7                | 38.1        | 33.2        | 911.4               | 1,266.3      | 600.0        | 71.1        | 83.0        | 57.3        | 26.0                   | 34.5        | 18.3        | 131.2                             | 114.0       | 148.3        |
| 35-39        | 92.0         | 125.3        | 58.8         | 22.6                | 26.3        | 18.9        | 586.2               | 886.7        | 322.1        | 47.8        | 59.4        | 34.8        | 11.8                   | 14.3        | 9.5         | 70.8                              | 59.4        | 81.9         |
| 40-44        | 54.9         | 85.6         | 24.6         | 11.9                | 16.6        | 7.1         | 374.7               | 641.3        | 141.2        | 28.0        | 37.5        | 17.9        | 9.2                    | 12.1        | 6.7         | 46.1                              | 44.8        | 47.3         |
| 45-54        | 24.5         | 42.4         | 7.4          | 5.7                 | 9.1         | 2.4         | 188.2               | 361.0        | 43.9         | 13.8        | 19.0        | 8.5         | 4.9                    | 7.4         | 2.7         | 18.1                              | 18.3        | 18.0         |
| 55-64        | 9.3          | 17.3         | 2.1          | 2.2                 | 3.5         | 0.9         | 74.8                | 157.5        | 11.2         | 6.4         | 11.2        | 2.1         | 2.0                    | 3.1         | 1.1         | 8.3                               | 11.6        | 5.5          |
| 65+          | 3.8          | 6.4          | 2.0          | 0.8                 | 1.3         | 0.5         | 36.7                | 65.3         | 18.2         | 4.9         | 7.7         | 2.8         | 0.4                    | 0.0         | 0.6         | 1.2                               | 2.9         | 0.0          |
| <b>TOTAL</b> | <b>123.8</b> | <b>126.0</b> | <b>121.7</b> | <b>25.3</b>         | <b>18.4</b> | <b>31.8</b> | <b>814.8</b>        | <b>908.1</b> | <b>730.6</b> | <b>64.8</b> | <b>61.0</b> | <b>68.8</b> | <b>18.6</b>            | <b>16.8</b> | <b>20.3</b> | <b>96.6</b>                       | <b>61.4</b> | <b>130.6</b> |
| 10-14        | 32.4         | 8.4          | 57.5         | 6.7                 | 0.8         | 13.0        | 173.7               | 49.3         | 301.8        | 12.9        | 4.0         | 22.2        | 3.3                    | 0.8         | 5.9         | 25.2                              | 4.2         | 46.9         |
| 15-19        | 547.5        | 347.4        | 759.4        | 123.3               | 38.8        | 213.0       | 2,909.7             | 2,053.7      | 3,792.6      | 216.6       | 144.0       | 295.5       | 64.8                   | 22.5        | 108.1       | 389.8                             | 142.0       | 638.9        |
| 20-24        | 605.9        | 577.4        | 635.4        | 122.4               | 70.7        | 176.4       | 3,401.1             | 3,574.4      | 3,232.3      | 249.4       | 240.2       | 259.3       | 84.1                   | 58.2        | 109.5       | 411.4                             | 244.4       | 579.9        |
| 25-29        | 303.0        | 350.4        | 256.1        | 62.9                | 54.2        | 71.6        | 1,774.1             | 2,251.2      | 1,340.0      | 143.5       | 159.7       | 126.2       | 43.6                   | 42.0        | 44.9        | 236.8                             | 140.8       | 337.4        |
| 30-34        | 162.1        | 205.0        | 119.9        | 39.3                | 42.7        | 36.0        | 960.1               | 1,332.4      | 634.3        | 80.6        | 99.9        | 59.8        | 23.5                   | 24.6        | 22.5        | 133.1                             | 112.8       | 153.3        |
| 35-39        | 102.8        | 140.5        | 65.4         | 24.8                | 30.3        | 19.3        | 641.8               | 962.3        | 360.8        | 52.7        | 68.1        | 36.5        | 16.8                   | 20.7        | 13.3        | 98.8                              | 82.8        | 114.5        |
| 40-44        | 60.6         | 92.3         | 29.6         | 13.4                | 17.7        | 9.0         | 401.9               | 672.8        | 165.8        | 31.7        | 43.2        | 20.0        | 9.6                    | 12.9        | 6.6         | 57.6                              | 67.7        | 48.1         |
| 45-54        | 27.2         | 46.6         | 8.7          | 5.9                 | 9.2         | 2.7         | 202.7               | 386.2        | 51.1         | 16.6        | 24.3        | 9.3         | 3.9                    | 4.2         | 3.6         | 27.1                              | 39.6        | 15.5         |
| 55-64        | 9.7          | 18.2         | 2.1          | 2.3                 | 4.1         | 0.6         | 76.0                | 159.4        | 12.4         | 7.0         | 11.5        | 3.0         | 1.6                    | 2.1         | 1.2         | 12.7                              | 16.4        | 9.3          |
| 65+          | 3.6          | 6.2          | 1.7          | 0.8                 | 1.4         | 0.4         | 31.9                | 60.6         | 13.6         | 4.5         | 8.0         | 2.0         | 1.3                    | 1.0         | 1.4         | 10.9                              | 2.6         | 17.0         |
| <b>TOTAL</b> | <b>133.4</b> | <b>134.6</b> | <b>132.2</b> | <b>27.3</b>         | <b>19.9</b> | <b>34.5</b> | <b>859.4</b>        | <b>946.2</b> | <b>781.4</b> | <b>69.9</b> | <b>69.6</b> | <b>70.3</b> | <b>20.0</b>            | <b>15.4</b> | <b>24.3</b> | <b>117.7</b>                      | <b>71.6</b> | <b>162.4</b> |
| 10-14        | 30.4         | 8.2          | 53.8         | 6.5                 | 0.8         | 12.5        | 159.5               | 47.4         | 275.1        | 13.4        | 4.3         | 23.0        | 4.6                    | 0.4         | 9.0         | 20.0                              | 2.6         | 38.0         |
| 15-19        | 528.8        | 337.8        | 730.8        | 113.5               | 36.1        | 195.5       | 2,833.8             | 2,004.8      | 3,690.4      | 228.7       | 148.9       | 315.2       | 73.5                   | 34.5        | 113.4       | 365.4                             | 123.9       | 607.7        |
| 20-24        | 603.4        | 574.5        | 633.4        | 121.1               | 70.4        | 174.1       | 3,377.4             | 3,540.9      | 3,217.8      | 249.2       | 235.0       | 264.5       | 93.8                   | 82.2        | 105.2       | 414.3                             | 236.2       | 593.4        |
| 25-29        | 308.2        | 360.1        | 256.8        | 64.6                | 55.9        | 73.4        | 1,772.7             | 2,269.6      | 1,318.7      | 146.8       | 160.3       | 132.6       | 37.3                   | 44.3        | 31.3        | 186.5                             | 127.1       | 248.0        |
| 30-34        | 163.9        | 211.7        | 117.0        | 39.7                | 42.6        | 36.9        | 967.1               | 1,380.7      | 604.0        | 80.1        | 95.0        | 64.2        | 27.0                   | 33.5        | 21.4        | 139.1                             | 124.8       | 153.6        |
| 35-39        | 104.0        | 144.5        | 63.8         | 26.7                | 31.7        | 21.8        | 639.0               | 986.0        | 333.6        | 49.2        | 61.4        | 36.4        | 16.2                   | 21.3        | 11.7        | 89.3                              | 74.2        | 104.2        |
| 40-44        | 62.9         | 96.5         | 29.9         | 14.5                | 20.3        | 8.8         | 413.7               | 695.3        | 167.5        | 29.5        | 37.5        | 21.3        | 8.1                    | 9.3         | 7.1         | 47.6                              | 57.4        | 38.3         |
| 45-54        | 28.9         | 49.5         | 9.2          | 6.6                 | 10.2        | 3.1         | 211.7               | 404.6        | 52.3         | 14.8        | 21.8        | 8.2         | 4.9                    | 7.1         | 2.9         | 31.0                              | 36.2        | 26.3         |
| 55-64        | 10.1         | 19.0         | 1.9          | 2.7                 | 4.8         | 0.7         | 76.4                | 163.4        | 10.2         | 6.5         | 10.7        | 2.8         | 1.9                    | 3.1         | 0.8         | 8.2                               | 12.7        | 4.3          |
| 65+          | 2.6          | 5.0          | 0.9          | 0.7                 | 1.3         | 0.2         | 22.7                | 47.3         | 6.9          | 3.4         | 6.2         | 1.4         | 0.7                    | 0.4         | 0.9         | 6.2                               | 4.6         | 7.3          |
| <b>TOTAL</b> | <b>131.9</b> | <b>135.0</b> | <b>129.0</b> | <b>26.9</b>         | <b>20.1</b> | <b>33.4</b> | <b>848.3</b>        | <b>947.0</b> | <b>759.4</b> | <b>70.0</b> | <b>67.3</b> | <b>72.7</b> | <b>20.9</b>            | <b>18.9</b> | <b>22.7</b> | <b>109.9</b>                      | <b>66.3</b> | <b>152.0</b> |
| 10-14        | 28.9         | 7.9          | 50.9         | 5.8                 | 0.7         | 11.2        | 147.9               | 43.2         | 255.8        | 13.2        | 5.1         | 21.7        | 5.1                    | 0.4         | 10.0        | 22.6                              | 6.4         | 39.5         |
| 15-19        | 504.7        | 320.6        | 699.3        | 111.6               | 38.5        | 188.3       | 2,692.7             | 1,889.3      | 3,514.0      | 216.8       | 137.1       | 307.6       | 81.8                   | 43.2        | 121.8       | 322.7                             | 128.2       | 525.5        |
| 20-24        | 592.3        | 559.5        | 626.6        | 131.4               | 80.4        | 183.5       | 3,322.1             | 3,511.8      | 3,142.4      | 227.5       | 200.6       | 260.4       | 100.0                  | 97.5        | 102.6       | 397.5                             | 247.8       | 551.6        |
| 25-29        | 288.6        | 335.1        | 241.0        | 64.5                | 54.7        | 74.5        | 1,685.0             | 2,194.7      | 1,223.5      | 123.3       | 132.4       | 112.7       | 53.7                   | 67.9        | 40.1        | 233.5                             | 158.6       | 308.9        |
| 30-34        | 155.1        | 199.6        | 110.0        | 42.6                | 46.6        | 38.6        | 881.4               | 1,255.0      | 545.8        | 75.1        | 88.9        | 59.4        | 37.5                   | 55.7        | 20.2        | 140.8                             | 147.1       | 134.5        |
| 35-39        | 99.5         | 139.3        | 60.0         | 29.5                | 37.3        | 21.6        | 567.3               | 872.5        | 296.7        | 51.1        | 63.3        | 37.9        | 25.9                   | 38.6        | 14.0        | 103.3                             | 105.9       | 100.9        |
| 40-44        | 60.3         | 92.0         | 29.1         | 16.6                | 22.5        | 10.8        | 366.5               | 614.6        | 147.3        | 29.0        | 38.1        | 19.4        | 14.0                   | 22.6        | 6.3         | 58.6                              | 66.2        | 51.6         |
| 45-54        | 27.4         | 46.9         | 8.7          | 7.1                 | 11.0        | 3.2         | 185.6               | 348.1        | 46.0         | 17.9        | 26.7        | 9.2         | 7.1                    | 10.9        | 3.7         | 25.7                              | 33.3        | 18.5         |
| 55-64        | 9.5          | 17.8         | 1.8          | 2.6                 | 4.7         | 0.6         | 69.1                | 143.4        | 9.4          | 6.7         | 11.3        | 2.6         | 3.7                    | 4.9         | 2.6         | 15.4                              | 25.0        | 6.4          |
| 65+          | 2.6          | 5.0          | 0.8          | 0.6                 | 1.2         | 0.3         | 22.8                | 49.2         | 6.5          | 2.9         | 6.3         | 0.5         | 0.2                    | 0.0         | 0.4         | 10.4                              | 10.8        | 10.1         |
| <b>TOTAL</b> | <b>127.5</b> | <b>130.1</b> | <b>124.9</b> | <b>27.7</b>         | <b>21.7</b> | <b>33.5</b> | <b>788.2</b>        | <b>873.5</b> | <b>711.0</b> | <b>69.4</b> | <b>66.2</b> | <b>72.8</b> | <b>27.8</b>            | <b>30.2</b> | <b>25.5</b> | <b>108.7</b>                      | <b>75.2</b> | <b>141.4</b> |
| 10-14        | 29.4         | 8.2          | 51.7         | 6.4                 | 0.8         | 12.4        | 147.8               | 44.8         | 253.9        | 13.9        | 5.0         | 23.3        | 7.0                    | 1.6         | 12.7        | 21.6                              | 2.7         | 41.3         |
| 15-19        | 499.8        | 307.5        | 703.2        | 114.3               | 39.0        | 193.2       | 2,635.3             | 1,794.1      | 3,495.2      | 223.7       | 136.9       | 322.5       | 93.2                   | 49.0        | 139.1       | 346.3                             | 127.5       | 574.6        |
| 20-24        | 612.9        | 563.8        | 664.1        | 143.1               | 89.7        | 197.8       | 3,387.4             | 3,484.0      | 3,295.9      | 246.9       | 214.6       | 286.3       | 99.7                   | 80.2        | 119.1       | 472.2                             | 276.6       | 673.5        |
| 25-29        | 289.4        | 328.5        | 249.4        | 69.7                | 58.5        | 81.1        | 1,659.3             | 2,123.1      | 1,239.3      | 130.5       | 134.9       | 125.3       | 48.7                   | 54.4        | 43.2        | 222.1                             | 160.3       | 284.3        |
| 30-34        | 158.6        | 203.9        | 112.7        | 44.9                | 50.6        | 39.1        | 888.2               | 1,263.2      | 551.3        | 84.4        | 98.7        | 68.0        | 32.4                   | 41.8        | 23.5        | 141.6                             | 119.5       | 163.5        |
| 35-39        | 96.0         | 134.4        | 57.8         | 29.7                | 38.0        | 21.3        | 535.3               | 824.8        | 278.7        | 57.7        | 71.5        | 42.6        | 16.6                   | 24.8        | 8.9         | 86.4                              | 70.5        | 101.4        |
| 40-44        | 60.6         | 90.5         | 31.2         | 17.6                | 23.5        | 11.7        | 360.6               | 591.0        | 157.0        | 33.0        | 43.6        | 21.8        | 12.4                   | 21.8        | 4.0         | 61.5                              | 58.1        | 64.7         |
| 45-54        | 27.7         | 46.8         | 9.4          | 8.2                 | 12.6        | 3.9         | 181.0               | 336.9        | 46.9         | 17.3        | 25.7        | 9.1         | 5.8                    | 8.9         | 3.2         | 30.8                              | 36.4        | 25.5         |
| 55-64        | 9.3          | 17.2         | 2.0          | 3.0                 | 5.5         | 0.7         | 63.8                | 130.2        | 10.4         | 7.2         | 11.3        | 3.7         | 2.8                    | 4.2         | 1.6         | 9.6                               | 17.4        | 2.3          |
| 65+          | 2.4          | 4.5          | 0.9          | 0.7                 | 1.3         | 0.3         | 19.7                | 41.4         | 6.3          | 3.3         | 4.0         | 2.7         | 2.0                    | 3.2         | 1.2         | 5.5                               | 6.0         | 5.1          |
| <b>TOTAL</b> | <b>128.5</b> | <b>128.6</b> | <b>128.5</b> | <b>29.4</b>         | <b>23.3</b> | <b>35.3</b> | <b>782.3</b>        | <b>849.6</b> | <b>721.4</b> | <b>74.2</b> | <b>69.5</b> | <b>79.1</b> | <b>26.7</b>            | <b>25.3</b> | <b>28.0</b> | <b>114.4</b>                      | <b>71.2</b> | <b>156.5</b> |

NOTE: These tables should be used only for race/ethnicity comparisons, not for age, sex, or overall totals. This is because, if age or race/ethnicity was not specified, cases were prorated according to the distribution of cases for which these variables were specified. For the following years, the states listed did not report age and/or race/ethnicity for most cases and were excluded: 1997 (ID, NJ, NY); 1998 (ID, NJ). Cases and population denominators have been excluded for these states/areas. Differences between total cases from this table and others in the report are due to different reporting forms and above listed exclusions. The 0 to 9 year age group is not shown because some of these may not be due to sexual transmission; however, they are included in the totals.

**Table 23. All stages of syphilis — Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001**

| State/Area              | Cases  |        |        |        |        | Rates per 100,000 Population |      |      |      |      |
|-------------------------|--------|--------|--------|--------|--------|------------------------------|------|------|------|------|
|                         | 1997   | 1998   | 1999   | 2000   | 2001   | 1997                         | 1998 | 1999 | 2000 | 2001 |
| Alabama                 | 1,486  | 1,139  | 1,019  | 752    | 720    | 34.4                         | 26.2 | 23.3 | 16.9 | 16.2 |
| Alaska                  | 12     | 13     | 13     | 6      | 9      | 2.0                          | 2.1  | 2.1  | 1.0  | 1.4  |
| Arizona                 | 600    | 697    | 833    | 847    | 1,147  | 13.2                         | 14.9 | 17.4 | 16.5 | 22.4 |
| Arkansas                | 572    | 506    | 364    | 366    | 239    | 22.7                         | 19.9 | 14.3 | 13.7 | 8.9  |
| California              | 3,828  | 2,869  | 2,859  | 3,354  | 3,050  | 11.9                         | 8.8  | 8.6  | 9.9  | 9.0  |
| Colorado                | 153    | 122    | 91     | 63     | 149    | 3.9                          | 3.1  | 2.2  | 1.5  | 3.5  |
| Connecticut             | 325    | 177    | 126    | 151    | 165    | 9.9                          | 5.4  | 3.8  | 4.4  | 4.8  |
| Delaware                | 113    | 114    | 72     | 45     | 79     | 15.4                         | 15.3 | 9.6  | 5.7  | 10.1 |
| Florida                 | 2,746  | 2,540  | 2,690  | 2,770  | 2,914  | 18.7                         | 17.0 | 17.8 | 17.3 | 18.2 |
| Georgia                 | 2,835  | 1,836  | 1,974  | 1,640  | 1,985  | 37.9                         | 24.0 | 25.3 | 20.0 | 24.2 |
| Hawaii                  | 47     | 18     | 11     | 22     | 41     | 4.0                          | 1.5  | 0.9  | 1.8  | 3.4  |
| Idaho                   | 24     | 15     | 13     | 11     | 11     | 2.0                          | 1.2  | 1.0  | 0.9  | 0.9  |
| Illinois                | 1,956  | 1,946  | 1,966  | 1,638  | 1,541  | 16.4                         | 16.2 | 16.2 | 13.2 | 12.4 |
| Indiana                 | 522    | 509    | 802    | 751    | 529    | 8.9                          | 8.6  | 13.5 | 12.4 | 8.7  |
| Iowa                    | 72     | 48     | 37     | 55     | 44     | 2.5                          | 1.7  | 1.3  | 1.9  | 1.5  |
| Kansas                  | 169    | 116    | 95     | 67     | 88     | 6.5                          | 4.4  | 3.6  | 2.5  | 3.3  |
| Kentucky                | 403    | 339    | 302    | 253    | 191    | 10.3                         | 8.6  | 7.6  | 6.3  | 4.7  |
| Louisiana               | 1,808  | 1,651  | 1,423  | 973    | 793    | 41.5                         | 37.8 | 32.5 | 21.8 | 17.7 |
| Maine                   | 13     | 4      | 1      | 7      | 16     | 1.0                          | 0.3  | 0.1  | 0.5  | 1.3  |
| Maryland                | 2,455  | 2,156  | 1,385  | 1,172  | 937    | 48.2                         | 42.0 | 26.8 | 22.1 | 17.7 |
| Massachusetts           | 730    | 568    | 385    | 448    | 446    | 11.9                         | 9.2  | 6.2  | 7.1  | 7.0  |
| Michigan                | 794    | 692    | 780    | 986    | 1,147  | 8.1                          | 7.0  | 7.9  | 9.9  | 11.5 |
| Minnesota               | 124    | 75     | 71     | 77     | 132    | 2.6                          | 1.6  | 1.5  | 1.6  | 2.7  |
| Mississippi             | 1,441  | 1,161  | 906    | 685    | 653    | 52.8                         | 42.2 | 32.7 | 24.1 | 23.0 |
| Missouri                | 503    | 379    | 396    | 299    | 174    | 9.3                          | 7.0  | 7.2  | 5.3  | 3.1  |
| Montana                 | 5      | 0      | 3      | 0      | 0      | 0.6                          | 0.0  | 0.3  | 0.0  | 0.0  |
| Nebraska                | 34     | 35     | 24     | 7      | 16     | 2.1                          | 2.1  | 1.4  | 0.4  | 0.9  |
| Nevada                  | 120    | 139    | 92     | 52     | 62     | 7.2                          | 8.0  | 5.1  | 2.6  | 3.1  |
| New Hampshire           | 26     | 14     | 17     | 19     | 20     | 2.2                          | 1.2  | 1.4  | 1.5  | 1.6  |
| New Jersey              | 1,166  | 836    | 803    | 802    | 1,040  | 14.5                         | 10.3 | 9.9  | 9.5  | 12.4 |
| New Mexico              | 103    | 76     | 80     | 98     | 73     | 6.0                          | 4.4  | 4.6  | 5.4  | 4.0  |
| New York                | 5,645  | 5,148  | 4,094  | 2,946  | 3,604  | 31.1                         | 28.3 | 22.5 | 15.5 | 19.0 |
| North Carolina          | 2,202  | 2,133  | 1,713  | 1,494  | 1,422  | 29.7                         | 28.3 | 22.4 | 18.6 | 17.7 |
| North Dakota            | 0      | 0      | 0      | 1      | 2      | 0.0                          | 0.0  | 0.0  | 0.2  | 0.3  |
| Ohio                    | 761    | 474    | 364    | 282    | 297    | 6.8                          | 4.2  | 3.2  | 2.5  | 2.6  |
| Oklahoma                | 410    | 369    | 539    | 327    | 288    | 12.4                         | 11.0 | 16.1 | 9.5  | 8.3  |
| Oregon                  | 48     | 32     | 37     | 49     | 48     | 1.5                          | 1.0  | 1.1  | 1.4  | 1.4  |
| Pennsylvania            | 1,182  | 910    | 932    | 685    | 726    | 9.8                          | 7.6  | 7.8  | 5.6  | 5.9  |
| Rhode Island            | 84     | 55     | 55     | 38     | 39     | 8.5                          | 5.6  | 5.6  | 3.6  | 3.7  |
| South Carolina          | 1,139  | 876    | 929    | 860    | 913    | 30.3                         | 22.8 | 23.9 | 21.4 | 22.8 |
| South Dakota            | 8      | 3      | 3      | 1      | 1      | 1.1                          | 0.4  | 0.4  | 0.1  | 0.1  |
| Tennessee               | 2,368  | 1,754  | 1,737  | 1,709  | 1,478  | 44.1                         | 32.3 | 31.7 | 30.0 | 26.0 |
| Texas                   | 5,382  | 3,967  | 3,699  | 3,297  | 3,660  | 27.7                         | 20.1 | 18.5 | 15.8 | 17.6 |
| Utah                    | 57     | 58     | 49     | 59     | 25     | 2.8                          | 2.8  | 2.3  | 2.6  | 1.1  |
| Vermont                 | 1      | 6      | 3      | 0      | 8      | 0.2                          | 1.0  | 0.5  | 0.0  | 1.3  |
| Virginia                | 1,118  | 719    | 722    | 539    | 524    | 16.6                         | 10.6 | 10.5 | 7.6  | 7.4  |
| Washington              | 137    | 143    | 205    | 171    | 174    | 2.4                          | 2.5  | 3.6  | 2.9  | 3.0  |
| West Virginia           | 20     | 11     | 15     | 13     | 7      | 1.1                          | 0.6  | 0.8  | 0.7  | 0.4  |
| Wisconsin               | 317    | 257    | 192    | 184    | 131    | 6.1                          | 4.9  | 3.7  | 3.4  | 2.4  |
| Wyoming                 | 4      | 2      | 0      | 5      | 4      | 0.8                          | 0.4  | 0.0  | 1.0  | 0.8  |
| U.S. TOTAL <sup>1</sup> | 46,712 | 38,286 | 35,379 | 31,592 | 32,221 | 17.5                         | 14.2 | 13.0 | 11.2 | 11.4 |
| Northeast               | 9,172  | 7,718  | 6,416  | 5,096  | 6,064  | 17.8                         | 14.9 | 12.4 | 9.5  | 11.3 |
| Midwest                 | 5,260  | 4,534  | 4,730  | 4,348  | 4,102  | 8.4                          | 7.2  | 7.5  | 6.8  | 6.4  |
| South                   | 27,142 | 21,850 | 19,947 | 17,411 | 17,262 | 28.8                         | 22.9 | 20.7 | 17.4 | 17.2 |
| West                    | 5,138  | 4,184  | 4,286  | 4,737  | 4,793  | 8.6                          | 6.9  | 7.0  | 7.5  | 7.6  |
| Guam                    | 1      | 3      | 12     | 9      | 30     | 0.6                          | 1.9  | 7.3  | 5.8  | 19.4 |
| Puerto Rico             | 1,577  | 1,461  | 1,463  | 1,340  | 1,267  | 41.2                         | 37.8 | 37.6 | 35.2 | 33.3 |
| Virgin Islands          | 10     | 35     | 13     | 11     | 9      | 9.1                          | 31.9 | 11.5 | 10.1 | 8.3  |
| OUTLYING AREAS          | 1,588  | 1,499  | 1,488  | 1,360  | 1,306  | 38.8                         | 36.3 | 35.7 | 33.4 | 32.1 |
| TOTAL                   | 48,300 | 39,785 | 36,867 | 32,952 | 33,527 | 17.8                         | 14.5 | 13.3 | 11.5 | 11.7 |

<sup>1</sup>Includes cases reported by Washington, D.C.

**Table 24. All stages of syphilis — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001**

| City               | Cases  |        |        |        |        | Rates per 100,000 Population |       |       |       |       |
|--------------------|--------|--------|--------|--------|--------|------------------------------|-------|-------|-------|-------|
|                    | 1997   | 1998   | 1999   | 2000   | 2001   | 1997                         | 1998  | 1999  | 2000  | 2001  |
| Akron, OH          | 4      | 7      | 6      | 2      | 4      | 0.8                          | 1.3   | 1.1   | 0.4   | 0.7   |
| Albuquerque, NM    | 56     | 45     | 50     | 63     | 42     | 10.6                         | 8.6   | 9.6   | 11.3  | 7.5   |
| Atlanta, GA        | 872    | 591    | 580    | 384    | 797    | 120.7                        | 79.9  | 77.9  | 47.1  | 97.7  |
| Austin, TX         | 98     | 56     | 62     | 59     | 115    | 14.1                         | 7.9   | 8.5   | 7.3   | 14.2  |
| Baltimore, MD      | 1,781  | 1,472  | 941    | 728    | 477    | 271.0                        | 228.0 | 148.7 | 111.8 | 73.3  |
| Birmingham, AL     | 474    | 246    | 278    | 212    | 149    | 72.0                         | 37.3  | 42.3  | 32.0  | 22.5  |
| Boston, MA         | 305    | 240    | 164    | 160    | 157    | 54.7                         | 43.1  | 29.5  | 26.8  | 26.3  |
| Buffalo, NY        | 23     | 12     | 6      | 10     | 12     | 7.2                          | 3.8   | 1.9   | 3.1   | 3.7   |
| Charlotte, NC      | 153    | 211    | 194    | 151    | 130    | 24.9                         | 33.4  | 29.9  | 21.7  | 18.7  |
| Chicago, IL        | 1,314  | 1,371  | 1,322  | 1,090  | 1,090  | 45.1                         | 46.0  | 44.4  | 35.3  | 35.3  |
| Cincinnati, OH     | 93     | 32     | 12     | 14     | 16     | 10.9                         | 3.8   | 1.4   | 1.7   | 1.9   |
| Cleveland, OH      | 250    | 151    | 88     | 42     | 39     | 18.0                         | 10.9  | 6.4   | 3.0   | 2.8   |
| Columbus, OH       | 117    | 115    | 109    | 90     | 140    | 11.5                         | 11.3  | 10.6  | 8.4   | 13.1  |
| Corpus Christi, TX | 22     | 27     | 20     | 10     | 10     | 6.9                          | 8.5   | 6.3   | 3.2   | 3.2   |
| Dallas, TX         | 717    | 736    | 695    | 587    | 702    | 35.4                         | 35.9  | 33.7  | 26.5  | 31.6  |
| Dayton, OH         | 126    | 39     | 16     | 17     | 18     | 22.4                         | 7.0   | 2.8   | 3.0   | 3.2   |
| Denver, CO         | 72     | 35     | 46     | 23     | 64     | 14.4                         | 7.0   | 9.2   | 4.1   | 11.5  |
| Des Moines, IA     | 26     | 20     | 7      | 18     | 15     | 7.3                          | 5.6   | 1.9   | 4.8   | 4.0   |
| Detroit, MI        | 548    | 477    | 569    | 756    | 902    | 50.3                         | 37.8  | 45.4  | 61.6  | 73.5  |
| El Paso, TX        | 112    | 81     | 79     | 92     | 106    | 16.0                         | 11.5  | 11.3  | 13.5  | 15.6  |
| Fort Worth, TX     | 299    | 175    | 177    | 191    | 267    | 22.5                         | 12.9  | 12.8  | 13.2  | 18.5  |
| Honolulu, HI       | 42     | 18     | 8      | 15     | 30     | 4.8                          | 2.1   | 0.9   | 1.7   | 3.4   |
| Houston, TX        | 1,937  | 1,401  | 1,111  | 849    | 921    | 61.3                         | 43.7  | 34.2  | 25.0  | 27.1  |
| Indianapolis, IN   | 125    | 239    | 553    | 521    | 306    | 15.4                         | 29.4  | 68.2  | 60.5  | 35.6  |
| Jacksonville, FL   | 206    | 154    | 74     | 125    | 139    | 28.1                         | 20.9  | 10.0  | 16.0  | 17.8  |
| Jersey City, NJ    | 85     | 34     | 42     | 27     | 39     | 39.0                         | 15.4  | 19.2  | 11.2  | 16.2  |
| Kansas City, MO    | 13     | 14     | 66     | 46     | 30     | 2.9                          | 3.1   | 14.6  | 10.2  | 6.6   |
| Los Angeles, CA    | 1,630  | 1,264  | 1,189  | 1,857  | 1,339  | 19.0                         | 14.7  | 13.6  | 20.8  | 15.0  |
| Louisville, KY     | 232    | 213    | 174    | 149    | 100    | 34.6                         | 31.7  | 25.9  | 21.5  | 14.4  |
| Memphis, TN        | 1,435  | 1,036  | 927    | 882    | 896    | 165.7                        | 119.2 | 106.2 | 98.3  | 99.8  |
| Miami, FL          | 874    | 773    | 795    | 829    | 1,044  | 42.7                         | 35.9  | 36.5  | 36.8  | 46.3  |
| Milwaukee, WI      | 275    | 233    | 166    | 151    | 98     | 30.3                         | 25.6  | 18.3  | 16.1  | 10.4  |
| Minneapolis, MN    | 53     | 34     | 28     | 34     | 63     | 13.8                         | 9.3   | 7.6   | 8.9   | 16.4  |
| Nashville, TN      | 412    | 416    | 505    | 523    | 379    | 77.2                         | 77.9  | 95.3  | 91.8  | 66.5  |
| New Orleans, LA    | 463    | 348    | 228    | 124    | 101    | 98.7                         | 74.8  | 49.5  | 25.6  | 20.8  |
| New York City, NY  | 4,961  | 4,652  | 3,736  | 2,711  | 3,300  | 67.6                         | 62.7  | 50.3  | 33.9  | 41.2  |
| Newark, NJ         | 241    | 191    | 172    | 265    | 377    | 84.7                         | 67.2  | 60.7  | 88.1  | 125.3 |
| Norfolk, VA        | 158    | 108    | 84     | 85     | 82     | 68.9                         | 50.2  | 37.2  | 36.3  | 35.0  |
| Oakland, CA        | 128    | 129    | 127    | 91     | 109    | 10.2                         | 10.1  | 9.8   | 6.9   | 8.3   |
| Oklahoma City, OK  | 110    | 181    | 300    | 193    | 160    | 25.0                         | 44.4  | 73.2  | 45.4  | 37.6  |
| Omaha, NE          | 17     | 26     | 10     | 6      | 3      | 3.9                          | 5.9   | 2.2   | 1.3   | 0.6   |
| Philadelphia, PA   | 1,093  | 804    | 825    | 618    | 646    | 75.3                         | 56.0  | 58.2  | 40.7  | 42.6  |
| Phoenix, AZ        | 473    | 572    | 722    | 736    | 957    | 17.5                         | 20.5  | 25.2  | 24.0  | 31.2  |
| Pittsburgh, PA     | 21     | 12     | 7      | 7      | 15     | 1.6                          | 0.9   | 0.6   | 0.5   | 1.2   |
| Portland, OR       | 23     | 17     | 19     | 30     | 29     | 4.7                          | 3.4   | 3.8   | 5.8   | 5.6   |
| Richmond, VA       | 137    | 81     | 64     | 40     | 58     | 71.2                         | 41.7  | 33.7  | 20.2  | 29.3  |
| Rochester, NY      | 32     | 39     | 16     | 7      | 4      | 13.3                         | 16.2  | 6.7   | 2.8   | 1.6   |
| Sacramento, CA     | 55     | 31     | 20     | 25     | 33     | 4.9                          | 2.7   | 1.7   | 2.0   | 2.7   |
| San Antonio, TX    | 309    | 237    | 228    | 287    | 364    | 23.2                         | 17.5  | 16.6  | 20.6  | 26.1  |
| San Diego, CA      | 259    | 187    | 251    | 232    | 151    | 9.5                          | 6.7   | 8.9   | 8.2   | 5.4   |
| San Francisco, CA  | 171    | 129    | 128    | 163    | 301    | 23.4                         | 17.3  | 17.1  | 21.0  | 38.8  |
| San Jose, CA       | 93     | 62     | 56     | 43     | 92     | 5.8                          | 3.8   | 3.4   | 2.6   | 5.5   |
| Seattle, WA        | 62     | 69     | 123    | 116    | 110    | 3.8                          | 4.2   | 7.4   | 6.7   | 6.3   |
| St Louis, MO       | 261    | 170    | 165    | 115    | 63     | 76.3                         | 50.1  | 49.4  | 33.0  | 18.1  |
| St Paul, MN        | 8      | 10     | 6      | 9      | 16     | 2.9                          | 3.7   | 2.2   | 3.2   | 5.6   |
| St Petersburg, FL  | 79     | 56     | 38     | 64     | 40     | 9.1                          | 6.4   | 4.3   | 6.9   | 4.3   |
| Tampa, FL          | 207    | 177    | 111    | 132    | 148    | 22.8                         | 19.1  | 11.8  | 13.2  | 14.8  |
| Toledo, OH         | 25     | 23     | 21     | 18     | 3      | 5.5                          | 5.1   | 4.7   | 4.0   | 0.7   |
| Tucson, AZ         | 52     | 36     | 42     | 36     | 72     | 6.7                          | 4.6   | 5.2   | 4.3   | 8.5   |
| Tulsa, OK          | 36     | 75     | 109    | 32     | 22     | 9.3                          | 19.7  | 28.4  | 8.1   | 5.6   |
| Washington, DC     | 644    | 579    | 458    | 516    | 459    | 121.7                        | 110.7 | 88.2  | 90.2  | 80.2  |
| Wichita, KS        | 85     | 21     | 34     | 10     | 15     | 19.4                         | 4.7   | 7.5   | 2.2   | 3.3   |
| Yonkers, NY        | 34     | 22     | 12     | 10     | 13     | 17.6                         | 11.4  | 6.2   | 5.0   | 6.5   |
| U.S. CITY TOTAL    | 25,018 | 21,012 | 19,171 | 17,428 | 18,379 | 35.9                         | 29.8  | 27.0  | 23.6  | 24.9  |
| San Juan, PR       | 719    | 673    | 682    | 545    | 483    | 82.4                         | 64.3  | 64.8  | 53.4  | 47.3  |
| TOTAL              | 25,737 | 21,685 | 19,853 | 17,973 | 18,862 | 36.5                         | 30.3  | 27.6  | 24.0  | 25.2  |

**Table 25. Primary and secondary syphilis — Reported cases and rates by state/area, ranked by rates: United States, 2001**

| <i>Rank</i> <sup>2</sup> | <i>State/Area</i>             | <i>Cases</i> | <i>Rate per 100,000 Population</i> |
|--------------------------|-------------------------------|--------------|------------------------------------|
| 1                        | South Carolina                | 235          | 5.9                                |
| 2                        | Tennessee                     | 331          | 5.8                                |
| 3                        | North Carolina                | 445          | 5.5                                |
| 4                        | Georgia                       | 414          | 5.1                                |
| 5                        | Maryland                      | 266          | 5.0                                |
| 6                        | Mississippi                   | 140          | 4.9                                |
| 7                        | Michigan                      | 428          | 4.3                                |
| 8                        | Louisiana                     | 173          | 3.9                                |
| 9                        | Arizona                       | 180          | 3.5                                |
| 10                       | Illinois                      | 409          | 3.3                                |
| 11                       | Alabama                       | 142          | 3.2                                |
| 12                       | Florida                       | 484          | 3.0                                |
| 13                       | Indiana                       | 151          | 2.5                                |
| 14                       | Texas                         | 478          | 2.3                                |
|                          | <b>U.S. TOTAL<sup>1</sup></b> | <b>6,103</b> | <b>2.2</b>                         |
| 15                       | Arkansas                      | 49           | 1.8                                |
| 16                       | Delaware                      | 14           | 1.8                                |
| 17                       | Oklahoma                      | 60           | 1.7                                |
| 18                       | California                    | 545          | 1.6                                |
| 19                       | New York                      | 304          | 1.6                                |
| 20                       | New Jersey                    | 137          | 1.6                                |
| 21                       | Virginia                      | 102          | 1.4                                |
| 22                       | Kentucky                      | 48           | 1.2                                |
| 23                       | Washington                    | 57           | 1.0                                |
| 24                       | New Mexico                    | 19           | 1.0                                |
| 25                       | Hawaii                        | 12           | 1.0                                |
| 26                       | Kansas                        | 25           | 0.9                                |
| 27                       | Rhode Island                  | 9            | 0.9                                |
| 28                       | Pennsylvania                  | 100          | 0.8                                |
| 29                       | Ohio                          | 81           | 0.7                                |
| 30                       | Massachusetts                 | 46           | 0.7                                |
| 31                       | Minnesota                     | 33           | 0.7                                |
| 32                       | Nebraska                      | 10           | 0.6                                |
| 33                       | Missouri                      | 26           | 0.5                                |
| 34                       | Colorado                      | 23           | 0.5                                |
| 35                       | Utah                          | 11           | 0.5                                |
| 36                       | Vermont                       | 3            | 0.5                                |
| 37                       | Wisconsin                     | 22           | 0.4                                |
| 38                       | Oregon                        | 13           | 0.4                                |
| 39                       | Connecticut                   | 12           | 0.4                                |
| 40                       | Nevada                        | 8            | 0.4                                |
| 41                       | West Virginia                 | 5            | 0.3                                |
|                          | <b>YEAR 2010 OBJECTIVE</b>    |              | <b>0.2</b>                         |
| 42                       | Iowa                          | 5            | 0.2                                |
| 43                       | Wyoming                       | 1            | 0.2                                |
| 44                       | Idaho                         | 1            | 0.1                                |
| 45                       | Maine                         | 1            | 0.1                                |
| 46                       | New Hampshire                 | 1            | 0.1                                |
| 47                       | South Dakota                  | 1            | 0.1                                |
|                          | Alaska                        | 0            | 0.0                                |
|                          | Montana                       | 0            | 0.0                                |
|                          | North Dakota                  | 0            | 0.0                                |

<sup>1</sup>Total includes cases reported by Washington, D.C., but excludes outlying areas (Guam with 12 cases, and rate of 7.8, Puerto Rico with 244 cases and rate of 6.4, and Virgin Islands with 0 cases).

<sup>2</sup>States were ranked in descending order by rate, number of cases, and alphabetically by state. States with no cases were not ranked.

**Table 26. Primary and secondary syphilis — Counties and independent cities\* ranked by number of reported cases: United States, 2001\*\***

| <i>Rank</i> <sup>1</sup> | <i>County/Independent City</i> | <i>Cases</i> | <i>Rate per 100,000 Population</i> | <i>Cumulative Percent</i> |
|--------------------------|--------------------------------|--------------|------------------------------------|---------------------------|
| 1                        | Wayne County, MI               | 379          | 18.4                               | 6                         |
| 2                        | Cook County, IL                | 339          | 6.3                                | 11                        |
| 3                        | Fulton County, GA              | 224          | 27.5                               | 15                        |
| 4                        | Los Angeles County, CA         | 211          | 2.2                                | 18                        |
| 5                        | Shelby County, TN              | 208          | 23.2                               | 22                        |
| 6                        | Dade County, FL                | 185          | 8.2                                | 25                        |
| 7                        | Baltimore (City), MD           | 161          | 24.7                               | 27                        |
| 8                        | Maricopa County, AZ            | 148          | 4.8                                | 30                        |
| 9                        | New York County, NY            | 145          | 9.4                                | 32                        |
| 10                       | San Francisco County, CA       | 138          | 17.8                               | 35                        |
| 11                       | Marion County, IN              | 128          | 14.9                               | 37                        |
| 12                       | Dallas County, TX              | 121          | 5.5                                | 39                        |
| 13                       | Harris County, TX              | 103          | 3.0                                | 40                        |
| 14                       | Robeson County, NC             | 90           | 73.0                               | 42                        |
| 15                       | Essex County, NJ               | 79           | 10.0                               | 43                        |
| 16                       | Philadelphia County, PA        | 78           | 5.1                                | 44                        |
| 17                       | Davidson County, TN            | 76           | 13.3                               | 46                        |
| 18                       | Bexar County, TX               | 71           | 5.1                                | 47                        |
| 19                       | Kings County, NY               | 71           | 2.9                                | 48                        |
| 20                       | Guilford County, NC            | 70           | 16.6                               | 49                        |
| 21                       | Franklin County, OH            | 62           | 5.8                                | 50                        |

\*Accounting for 50% of reported primary and secondary syphilis cases.

\*\*Corrections to the reported number of cases in the future could alter the ranking and/or inclusion of the counties and independent cities in this table.

<sup>1</sup>Counties were ranked in descending order by number of cases, rate, and alphabetically by state.

**Table 27. Primary and secondary syphilis — Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001**

| State/Area              | Cases |       |       |       |       | Rates per 100,000 Population |      |      |      |      |
|-------------------------|-------|-------|-------|-------|-------|------------------------------|------|------|------|------|
|                         | 1997  | 1998  | 1999  | 2000  | 2001  | 1997                         | 1998 | 1999 | 2000 | 2001 |
| Alabama                 | 410   | 274   | 202   | 123   | 142   | 9.5                          | 6.3  | 4.6  | 2.8  | 3.2  |
| Alaska                  | 1     | 1     | 1     | 0     | 0     | 0.2                          | 0.2  | 0.2  | 0.0  | 0.0  |
| Arizona                 | 132   | 185   | 212   | 189   | 180   | 2.9                          | 4.0  | 4.4  | 3.7  | 3.5  |
| Arkansas                | 173   | 108   | 87    | 104   | 49    | 6.9                          | 4.3  | 3.4  | 3.9  | 1.8  |
| California              | 386   | 327   | 283   | 325   | 545   | 1.2                          | 1.0  | 0.9  | 1.0  | 1.6  |
| Colorado                | 15    | 10    | 8     | 11    | 23    | 0.4                          | 0.3  | 0.2  | 0.3  | 0.5  |
| Connecticut             | 62    | 26    | 16    | 16    | 12    | 1.9                          | 0.8  | 0.5  | 0.5  | 0.4  |
| Delaware                | 22    | 21    | 10    | 9     | 14    | 3.0                          | 2.8  | 1.3  | 1.1  | 1.8  |
| Florida                 | 296   | 294   | 343   | 413   | 484   | 2.0                          | 2.0  | 2.3  | 2.6  | 3.0  |
| Georgia                 | 515   | 333   | 430   | 402   | 414   | 6.9                          | 4.4  | 5.5  | 4.9  | 5.1  |
| Hawaii                  | 1     | 4     | 3     | 2     | 12    | 0.1                          | 0.3  | 0.3  | 0.2  | 1.0  |
| Idaho                   | 1     | 2     | 1     | 1     | 1     | 0.1                          | 0.2  | 0.1  | 0.1  | 0.1  |
| Illinois                | 435   | 396   | 422   | 412   | 409   | 3.7                          | 3.3  | 3.5  | 3.3  | 3.3  |
| Indiana                 | 151   | 215   | 450   | 351   | 151   | 2.6                          | 3.6  | 7.6  | 5.8  | 2.5  |
| Iowa                    | 7     | 5     | 9     | 11    | 5     | 0.2                          | 0.2  | 0.3  | 0.4  | 0.2  |
| Kansas                  | 32    | 14    | 14    | 6     | 25    | 1.2                          | 0.5  | 0.5  | 0.2  | 0.9  |
| Kentucky                | 135   | 106   | 101   | 85    | 48    | 3.5                          | 2.7  | 2.5  | 2.1  | 1.2  |
| Louisiana               | 364   | 430   | 306   | 209   | 173   | 8.4                          | 9.8  | 7.0  | 4.7  | 3.9  |
| Maine                   | 2     | 1     | 0     | 1     | 1     | 0.2                          | 0.1  | 0.0  | 0.1  | 0.1  |
| Maryland                | 891   | 648   | 343   | 300   | 266   | 17.5                         | 12.6 | 6.6  | 5.7  | 5.0  |
| Massachusetts           | 78    | 46    | 37    | 68    | 46    | 1.3                          | 0.7  | 0.6  | 1.1  | 0.7  |
| Michigan                | 153   | 211   | 249   | 330   | 428   | 1.6                          | 2.1  | 2.5  | 3.3  | 4.3  |
| Minnesota               | 16    | 9     | 10    | 16    | 33    | 0.3                          | 0.2  | 0.2  | 0.3  | 0.7  |
| Mississippi             | 390   | 261   | 194   | 137   | 140   | 14.3                         | 9.5  | 7.0  | 4.8  | 4.9  |
| Missouri                | 118   | 109   | 96    | 29    | 26    | 2.2                          | 2.0  | 1.8  | 0.5  | 0.5  |
| Montana                 | 0     | 0     | 1     | 0     | 0     | 0.0                          | 0.0  | 0.1  | 0.0  | 0.0  |
| Nebraska                | 3     | 8     | 6     | 2     | 10    | 0.2                          | 0.5  | 0.4  | 0.1  | 0.6  |
| Nevada                  | 11    | 15    | 5     | 5     | 8     | 0.7                          | 0.9  | 0.3  | 0.3  | 0.4  |
| New Hampshire           | 0     | 2     | 1     | 2     | 1     | 0.0                          | 0.2  | 0.1  | 0.2  | 0.1  |
| New Jersey              | 150   | 107   | 68    | 71    | 137   | 1.9                          | 1.3  | 0.8  | 0.8  | 1.6  |
| New Mexico              | 9     | 14    | 12    | 16    | 19    | 0.5                          | 0.8  | 0.7  | 0.9  | 1.0  |
| New York                | 138   | 119   | 150   | 132   | 304   | 0.8                          | 0.7  | 0.8  | 0.7  | 1.6  |
| North Carolina          | 721   | 723   | 464   | 483   | 445   | 9.7                          | 9.6  | 6.1  | 6.0  | 5.5  |
| North Dakota            | 0     | 0     | 0     | 0     | 0     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Ohio                    | 218   | 134   | 92    | 69    | 81    | 1.9                          | 1.2  | 0.8  | 0.6  | 0.7  |
| Oklahoma                | 117   | 98    | 187   | 116   | 60    | 3.5                          | 2.9  | 5.6  | 3.4  | 1.7  |
| Oregon                  | 10    | 6     | 8     | 12    | 13    | 0.3                          | 0.2  | 0.2  | 0.4  | 0.4  |
| Pennsylvania            | 123   | 98    | 84    | 77    | 100   | 1.0                          | 0.8  | 0.7  | 0.6  | 0.8  |
| Rhode Island            | 2     | 1     | 3     | 4     | 9     | 0.2                          | 0.1  | 0.3  | 0.4  | 0.9  |
| South Carolina          | 378   | 271   | 269   | 229   | 235   | 10.1                         | 7.1  | 6.9  | 5.7  | 5.9  |
| South Dakota            | 1     | 1     | 0     | 0     | 1     | 0.1                          | 0.1  | 0.0  | 0.0  | 0.1  |
| Tennessee               | 747   | 567   | 641   | 532   | 331   | 13.9                         | 10.4 | 11.7 | 9.4  | 5.8  |
| Texas                   | 676   | 443   | 473   | 396   | 478   | 3.5                          | 2.2  | 2.4  | 1.9  | 2.3  |
| Utah                    | 5     | 4     | 2     | 2     | 11    | 0.2                          | 0.2  | 0.1  | 0.1  | 0.5  |
| Vermont                 | 0     | 4     | 3     | 0     | 3     | 0.0                          | 0.7  | 0.5  | 0.0  | 0.5  |
| Virginia                | 237   | 149   | 153   | 126   | 102   | 3.5                          | 2.2  | 2.2  | 1.8  | 1.4  |
| Washington              | 17    | 44    | 77    | 66    | 57    | 0.3                          | 0.8  | 1.3  | 1.1  | 1.0  |
| West Virginia           | 1     | 3     | 5     | 3     | 5     | 0.1                          | 0.2  | 0.3  | 0.2  | 0.3  |
| Wisconsin               | 89    | 78    | 41    | 48    | 22    | 1.7                          | 1.5  | 0.8  | 0.9  | 0.4  |
| Wyoming                 | 0     | 1     | 0     | 1     | 1     | 0.0                          | 0.2  | 0.0  | 0.2  | 0.2  |
| U.S. TOTAL <sup>1</sup> | 8,556 | 7,007 | 6,617 | 5,979 | 6,103 | 3.2                          | 2.6  | 2.4  | 2.1  | 2.2  |
| Northeast               | 555   | 404   | 362   | 371   | 613   | 1.1                          | 0.8  | 0.7  | 0.7  | 1.1  |
| Midwest                 | 1,223 | 1,180 | 1,389 | 1,274 | 1,191 | 2.0                          | 1.9  | 2.2  | 2.0  | 1.8  |
| South                   | 6,190 | 4,810 | 4,253 | 3,704 | 3,429 | 6.6                          | 5.0  | 4.4  | 3.7  | 3.4  |
| West                    | 588   | 613   | 613   | 630   | 870   | 1.0                          | 1.0  | 1.0  | 1.0  | 1.4  |
| Guam                    | 0     | 0     | 2     | 1     | 12    | 0.0                          | 0.0  | 1.2  | 0.6  | 7.8  |
| Puerto Rico             | 249   | 177   | 146   | 175   | 244   | 6.5                          | 4.6  | 3.8  | 4.6  | 6.4  |
| Virgin Islands          | 2     | 7     | 1     | 3     | 0     | 1.8                          | 6.4  | 0.9  | 2.8  | 0.0  |
| OUTLYING AREAS          | 251   | 184   | 149   | 179   | 256   | 6.1                          | 4.5  | 3.6  | 4.4  | 6.3  |
| TOTAL                   | 8,807 | 7,191 | 6,766 | 6,158 | 6,359 | 3.2                          | 2.6  | 2.4  | 2.2  | 2.2  |

<sup>1</sup>Includes cases reported by Washington, D.C.

**Table 28. Primary and secondary syphilis — Women – Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001**

| State/Area              | Cases |       |       |       |       | Rates per 100,000 Population |      |      |      |      |
|-------------------------|-------|-------|-------|-------|-------|------------------------------|------|------|------|------|
|                         | 1997  | 1998  | 1999  | 2000  | 2001  | 1997                         | 1998 | 1999 | 2000 | 2001 |
| Alabama                 | 183   | 133   | 102   | 63    | 67    | 8.2                          | 5.9  | 4.5  | 2.7  | 2.9  |
| Alaska                  | 0     | 0     | 0     | 0     | 0     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Arizona                 | 37    | 67    | 65    | 80    | 50    | 1.6                          | 2.8  | 2.7  | 3.1  | 1.9  |
| Arkansas                | 103   | 59    | 44    | 58    | 27    | 7.9                          | 4.5  | 3.3  | 4.2  | 2.0  |
| California              | 116   | 132   | 76    | 51    | 42    | 0.7                          | 0.8  | 0.5  | 0.3  | 0.2  |
| Colorado                | 5     | 3     | 6     | 1     | 5     | 0.3                          | 0.1  | 0.3  | 0.0  | 0.2  |
| Connecticut             | 25    | 16    | 6     | 7     | 2     | 1.5                          | 0.9  | 0.4  | 0.4  | 0.1  |
| Delaware                | 10    | 11    | 1     | 1     | 5     | 2.7                          | 2.9  | 0.3  | 0.2  | 1.2  |
| Florida                 | 131   | 116   | 143   | 163   | 135   | 1.7                          | 1.5  | 1.8  | 2.0  | 1.6  |
| Georgia                 | 194   | 130   | 160   | 159   | 129   | 5.1                          | 3.3  | 4.0  | 3.8  | 3.1  |
| Hawaii                  | 0     | 0     | 2     | 1     | 0     | 0.0                          | 0.0  | 0.3  | 0.2  | 0.0  |
| Idaho                   | 0     | 0     | 0     | 0     | 0     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Illinois                | 194   | 158   | 180   | 181   | 91    | 3.2                          | 2.6  | 2.9  | 2.9  | 1.4  |
| Indiana                 | 82    | 113   | 225   | 196   | 71    | 2.7                          | 3.7  | 7.4  | 6.3  | 2.3  |
| Iowa                    | 4     | 0     | 6     | 6     | 1     | 0.3                          | 0.0  | 0.4  | 0.4  | 0.1  |
| Kansas                  | 12    | 6     | 8     | 1     | 11    | 0.9                          | 0.4  | 0.6  | 0.1  | 0.8  |
| Kentucky                | 66    | 49    | 45    | 42    | 17    | 3.3                          | 2.4  | 2.2  | 2.0  | 0.8  |
| Louisiana               | 187   | 196   | 153   | 97    | 83    | 8.3                          | 8.6  | 6.7  | 4.2  | 3.6  |
| Maine                   | 1     | 0     | 0     | 0     | 0     | 0.2                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Maryland                | 400   | 302   | 164   | 115   | 113   | 15.3                         | 11.4 | 6.2  | 4.2  | 4.1  |
| Massachusetts           | 33    | 15    | 15    | 19    | 4     | 1.0                          | 0.5  | 0.5  | 0.6  | 0.1  |
| Michigan                | 68    | 86    | 95    | 141   | 161   | 1.4                          | 1.7  | 1.9  | 2.8  | 3.2  |
| Minnesota               | 4     | 4     | 5     | 5     | 16    | 0.2                          | 0.2  | 0.2  | 0.2  | 0.6  |
| Mississippi             | 201   | 128   | 93    | 70    | 69    | 14.2                         | 8.9  | 6.4  | 4.8  | 4.7  |
| Missouri                | 63    | 50    | 49    | 11    | 8     | 2.3                          | 1.8  | 1.7  | 0.4  | 0.3  |
| Montana                 | 0     | 0     | 0     | 0     | 0     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Nebraska                | 0     | 3     | 3     | 1     | 8     | 0.0                          | 0.4  | 0.4  | 0.1  | 0.9  |
| Nevada                  | 6     | 3     | 3     | 2     | 1     | 0.7                          | 0.3  | 0.3  | 0.2  | 0.1  |
| New Hampshire           | 0     | 1     | 1     | 0     | 0     | 0.0                          | 0.2  | 0.2  | 0.0  | 0.0  |
| New Jersey              | 59    | 37    | 32    | 23    | 44    | 1.4                          | 0.9  | 0.8  | 0.5  | 1.0  |
| New Mexico              | 5     | 8     | 3     | 5     | 6     | 0.6                          | 0.9  | 0.3  | 0.5  | 0.6  |
| New York                | 56    | 28    | 34    | 12    | 23    | 0.6                          | 0.3  | 0.4  | 0.1  | 0.2  |
| North Carolina          | 353   | 347   | 202   | 234   | 191   | 9.3                          | 8.9  | 5.1  | 5.7  | 4.7  |
| North Dakota            | 0     | 0     | 0     | 0     | 0     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Ohio                    | 101   | 72    | 43    | 26    | 26    | 1.8                          | 1.2  | 0.7  | 0.4  | 0.4  |
| Oklahoma                | 53    | 45    | 77    | 54    | 28    | 3.1                          | 2.6  | 4.5  | 3.1  | 1.6  |
| Oregon                  | 2     | 2     | 5     | 4     | 2     | 0.1                          | 0.1  | 0.3  | 0.2  | 0.1  |
| Pennsylvania            | 52    | 31    | 27    | 30    | 28    | 0.8                          | 0.5  | 0.4  | 0.5  | 0.4  |
| Rhode Island            | 1     | 1     | 1     | 2     | 0     | 0.2                          | 0.2  | 0.2  | 0.4  | 0.0  |
| South Carolina          | 173   | 131   | 117   | 96    | 101   | 8.9                          | 6.6  | 5.8  | 4.7  | 4.9  |
| South Dakota            | 0     | 1     | 0     | 0     | 0     | 0.0                          | 0.3  | 0.0  | 0.0  | 0.0  |
| Tennessee               | 370   | 284   | 283   | 247   | 158   | 13.3                         | 10.1 | 10.0 | 8.5  | 5.4  |
| Texas                   | 315   | 183   | 182   | 152   | 169   | 3.2                          | 1.8  | 1.8  | 1.4  | 1.6  |
| Utah                    | 2     | 0     | 0     | 1     | 2     | 0.2                          | 0.0  | 0.0  | 0.1  | 0.2  |
| Vermont                 | 0     | 1     | 2     | 0     | 0     | 0.0                          | 0.3  | 0.7  | 0.0  | 0.0  |
| Virginia                | 112   | 61    | 71    | 44    | 43    | 3.3                          | 1.8  | 2.0  | 1.2  | 1.2  |
| Washington              | 8     | 7     | 3     | 8     | 7     | 0.3                          | 0.2  | 0.1  | 0.3  | 0.2  |
| West Virginia           | 1     | 2     | 3     | 1     | 1     | 0.1                          | 0.2  | 0.3  | 0.1  | 0.1  |
| Wisconsin               | 49    | 40    | 18    | 24    | 13    | 1.9                          | 1.5  | 0.7  | 0.9  | 0.5  |
| Wyoming                 | 0     | 0     | 0     | 1     | 1     | 0.0                          | 0.0  | 0.0  | 0.4  | 0.4  |
| U.S. TOTAL <sup>1</sup> | 3,895 | 3,096 | 2,777 | 2,445 | 1,967 | 2.9                          | 2.2  | 2.0  | 1.7  | 1.4  |
| Northeast               | 227   | 130   | 118   | 93    | 101   | 0.9                          | 0.5  | 0.4  | 0.3  | 0.4  |
| Midwest                 | 577   | 533   | 632   | 592   | 406   | 1.8                          | 1.7  | 1.9  | 1.8  | 1.2  |
| South                   | 2,910 | 2,211 | 1,864 | 1,606 | 1,344 | 6.0                          | 4.5  | 3.8  | 3.1  | 2.6  |
| West                    | 181   | 222   | 163   | 154   | 116   | 0.6                          | 0.7  | 0.5  | 0.5  | 0.4  |
| Guam                    | 0     | 0     | 0     | 0     | 5     | 0.0                          | 0.0  | 0.0  | 0.0  | 6.6  |
| Puerto Rico             | 116   | 81    | 73    | 76    | 130   | 5.8                          | 4.0  | 3.6  | 3.8  | 6.6  |
| Virgin Islands          | 0     | 1     | 1     | 2     | 0     | 0.0                          | 1.7  | 1.9  | 3.5  | 0.0  |
| OUTLYING AREAS          | 116   | 82    | 74    | 78    | 135   | 5.5                          | 3.8  | 3.4  | 3.7  | 6.4  |
| TOTAL                   | 4,011 | 3,178 | 2,851 | 2,523 | 2,102 | 2.9                          | 2.3  | 2.0  | 1.7  | 1.4  |

<sup>1</sup>Includes cases reported by Washington, D.C. Cases reported with unknown sex are not included in this table.

**Table 29. Primary and secondary syphilis — Men – Reported cases and rates by state/area listed in alphabetical order: United States and outlying areas, 1997–2001**

| State/Area              | Cases |       |       |       |       | Rates per 100,000 Population |      |      |      |      |
|-------------------------|-------|-------|-------|-------|-------|------------------------------|------|------|------|------|
|                         | 1997  | 1998  | 1999  | 2000  | 2001  | 1997                         | 1998 | 1999 | 2000 | 2001 |
| Alabama                 | 227   | 141   | 100   | 60    | 75    | 10.9                         | 6.8  | 4.8  | 2.8  | 3.5  |
| Alaska                  | 1     | 1     | 1     | 0     | 0     | 0.3                          | 0.3  | 0.3  | 0.0  | 0.0  |
| Arizona                 | 95    | 118   | 147   | 109   | 130   | 4.2                          | 5.1  | 6.2  | 4.3  | 5.1  |
| Arkansas                | 70    | 49    | 43    | 46    | 22    | 5.7                          | 4.0  | 3.5  | 3.5  | 1.7  |
| California              | 270   | 195   | 206   | 272   | 501   | 1.7                          | 1.2  | 1.2  | 1.6  | 3.0  |
| Colorado                | 10    | 7     | 2     | 10    | 18    | 0.5                          | 0.4  | 0.1  | 0.5  | 0.8  |
| Connecticut             | 37    | 10    | 10    | 9     | 10    | 2.3                          | 0.6  | 0.6  | 0.5  | 0.6  |
| Delaware                | 12    | 10    | 9     | 8     | 9     | 3.4                          | 2.8  | 2.5  | 2.1  | 2.4  |
| Florida                 | 165   | 178   | 199   | 250   | 349   | 2.3                          | 2.5  | 2.7  | 3.2  | 4.5  |
| Georgia                 | 321   | 203   | 269   | 243   | 285   | 8.8                          | 5.5  | 7.1  | 6.0  | 7.1  |
| Hawaii                  | 1     | 4     | 1     | 1     | 12    | 0.2                          | 0.7  | 0.2  | 0.2  | 2.0  |
| Idaho                   | 1     | 2     | 1     | 1     | 1     | 0.2                          | 0.3  | 0.2  | 0.2  | 0.2  |
| Illinois                | 241   | 238   | 242   | 231   | 318   | 4.1                          | 4.1  | 4.1  | 3.8  | 5.2  |
| Indiana                 | 69    | 102   | 225   | 155   | 80    | 2.4                          | 3.6  | 7.8  | 5.2  | 2.7  |
| Iowa                    | 3     | 5     | 3     | 5     | 4     | 0.2                          | 0.4  | 0.2  | 0.3  | 0.3  |
| Kansas                  | 20    | 8     | 6     | 5     | 14    | 1.6                          | 0.6  | 0.5  | 0.4  | 1.1  |
| Kentucky                | 69    | 57    | 56    | 43    | 31    | 3.6                          | 3.0  | 2.9  | 2.2  | 1.6  |
| Louisiana               | 177   | 234   | 153   | 112   | 90    | 8.4                          | 11.1 | 7.3  | 5.2  | 4.2  |
| Maine                   | 1     | 1     | 0     | 1     | 1     | 0.2                          | 0.2  | 0.0  | 0.2  | 0.2  |
| Maryland                | 490   | 346   | 179   | 185   | 153   | 19.8                         | 13.9 | 7.1  | 7.2  | 6.0  |
| Massachusetts           | 45    | 31    | 22    | 49    | 42    | 1.5                          | 1.0  | 0.7  | 1.6  | 1.4  |
| Michigan                | 85    | 125   | 154   | 189   | 267   | 1.8                          | 2.6  | 3.2  | 3.9  | 5.5  |
| Minnesota               | 12    | 5     | 5     | 11    | 17    | 0.5                          | 0.2  | 0.2  | 0.5  | 0.7  |
| Mississippi             | 189   | 131   | 101   | 67    | 71    | 14.4                         | 9.9  | 7.6  | 4.9  | 5.2  |
| Missouri                | 55    | 59    | 47    | 18    | 18    | 2.1                          | 2.2  | 1.8  | 0.7  | 0.7  |
| Montana                 | 0     | 0     | 1     | 0     | 0     | 0.0                          | 0.0  | 0.2  | 0.0  | 0.0  |
| Nebraska                | 3     | 5     | 3     | 1     | 2     | 0.4                          | 0.6  | 0.4  | 0.1  | 0.2  |
| Nevada                  | 5     | 12    | 2     | 3     | 7     | 0.6                          | 1.3  | 0.2  | 0.3  | 0.7  |
| New Hampshire           | 0     | 1     | 0     | 2     | 1     | 0.0                          | 0.2  | 0.0  | 0.3  | 0.2  |
| New Jersey              | 91    | 70    | 36    | 48    | 93    | 2.3                          | 1.8  | 0.9  | 1.2  | 2.3  |
| New Mexico              | 4     | 6     | 9     | 11    | 13    | 0.5                          | 0.7  | 1.1  | 1.2  | 1.5  |
| New York                | 82    | 91    | 116   | 120   | 281   | 0.9                          | 1.0  | 1.3  | 1.3  | 3.1  |
| North Carolina          | 368   | 376   | 262   | 249   | 254   | 10.2                         | 10.3 | 7.1  | 6.3  | 6.4  |
| North Dakota            | 0     | 0     | 0     | 0     | 0     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Ohio                    | 117   | 62    | 49    | 43    | 55    | 2.2                          | 1.1  | 0.9  | 0.8  | 1.0  |
| Oklahoma                | 64    | 53    | 110   | 62    | 32    | 3.9                          | 3.2  | 6.7  | 3.7  | 1.9  |
| Oregon                  | 8     | 4     | 3     | 8     | 11    | 0.5                          | 0.2  | 0.2  | 0.5  | 0.6  |
| Pennsylvania            | 71    | 67    | 57    | 47    | 72    | 1.2                          | 1.2  | 1.0  | 0.8  | 1.2  |
| Rhode Island            | 1     | 0     | 2     | 2     | 9     | 0.2                          | 0.0  | 0.4  | 0.4  | 1.8  |
| South Carolina          | 205   | 140   | 152   | 133   | 134   | 11.3                         | 7.6  | 8.1  | 6.8  | 6.9  |
| South Dakota            | 1     | 0     | 0     | 0     | 1     | 0.3                          | 0.0  | 0.0  | 0.0  | 0.3  |
| Tennessee               | 377   | 283   | 358   | 285   | 173   | 14.5                         | 10.8 | 13.5 | 10.3 | 6.2  |
| Texas                   | 361   | 260   | 289   | 244   | 309   | 3.8                          | 2.7  | 2.9  | 2.4  | 3.0  |
| Utah                    | 3     | 4     | 2     | 1     | 9     | 0.3                          | 0.4  | 0.2  | 0.1  | 0.8  |
| Vermont                 | 0     | 3     | 1     | 0     | 3     | 0.0                          | 1.0  | 0.3  | 0.0  | 1.0  |
| Virginia                | 125   | 88    | 82    | 82    | 59    | 3.8                          | 2.7  | 2.4  | 2.4  | 1.7  |
| Washington              | 9     | 37    | 74    | 58    | 50    | 0.3                          | 1.3  | 2.6  | 2.0  | 1.7  |
| West Virginia           | 0     | 1     | 2     | 2     | 4     | 0.0                          | 0.1  | 0.2  | 0.2  | 0.5  |
| Wisconsin               | 40    | 38    | 23    | 24    | 9     | 1.6                          | 1.5  | 0.9  | 0.9  | 0.3  |
| Wyoming                 | 0     | 1     | 0     | 0     | 0     | 0.0                          | 0.4  | 0.0  | 0.0  | 0.0  |
| U.S. TOTAL <sup>1</sup> | 4,660 | 3,909 | 3,835 | 3,532 | 4,134 | 3.6                          | 3.0  | 2.9  | 2.6  | 3.0  |
| Northeast               | 328   | 274   | 244   | 278   | 512   | 1.3                          | 1.1  | 1.0  | 1.1  | 2.0  |
| Midwest                 | 646   | 647   | 757   | 682   | 785   | 2.1                          | 2.1  | 2.5  | 2.2  | 2.5  |
| South                   | 3,279 | 2,597 | 2,385 | 2,098 | 2,085 | 7.1                          | 5.6  | 5.1  | 4.3  | 4.3  |
| West                    | 407   | 391   | 449   | 474   | 752   | 1.4                          | 1.3  | 1.5  | 1.5  | 2.4  |
| Guam                    | 0     | 0     | 2     | 1     | 7     | 0.0                          | 0.0  | 2.3  | 1.3  | 8.8  |
| Puerto Rico             | 133   | 96    | 73    | 99    | 114   | 7.2                          | 5.2  | 3.9  | 5.4  | 6.2  |
| Virgin Islands          | 2     | 6     | 0     | 1     | 0     | 3.8                          | 11.3 | 0.0  | 1.9  | 0.0  |
| OUTLYING AREAS          | 135   | 102   | 75    | 101   | 121   | 6.8                          | 5.1  | 3.7  | 5.1  | 6.2  |
| TOTAL                   | 4,795 | 4,011 | 3,910 | 3,633 | 4,255 | 3.6                          | 3.0  | 2.9  | 2.6  | 3.0  |

<sup>1</sup>Includes cases reported by Washington, D.C. Cases reported with unknown sex are not included in this table.

**Table 30. Primary and secondary syphilis — Reported cases and rates in selected cities of >200,000 population, ranked by rates: United States, 2001**

| <i>Rank</i> <sup>1</sup> | <i>City*</i>               | <i>Cases</i> | <i>Rate per 100,000 Population</i> |
|--------------------------|----------------------------|--------------|------------------------------------|
| 1                        | Detroit, MI                | 351          | 28.6                               |
| 2                        | Atlanta, GA                | 224          | 27.5                               |
| 3                        | Baltimore, MD              | 161          | 24.7                               |
| 4                        | Memphis, TN                | 208          | 23.2                               |
| 5                        | Newark, NJ                 | 58           | 19.3                               |
| 6                        | San Francisco, CA          | 139          | 17.9                               |
| 7                        | Indianapolis, IN           | 128          | 14.9                               |
| 8                        | Norfolk, VA                | 35           | 14.9                               |
| 9                        | Nashville, TN              | 76           | 13.3                               |
| 10                       | Chicago, IL                | 317          | 10.3                               |
| 11                       | Miami, FL                  | 185          | 8.2                                |
| 12                       | Oklahoma City, OK          | 35           | 8.2                                |
| 13                       | Washington, DC             | 43           | 7.5                                |
| 14                       | Minneapolis, MN            | 23           | 6.0                                |
| 15                       | Dallas, TX                 | 121          | 5.5                                |
| 16                       | Philadelphia, PA           | 79           | 5.2                                |
| 17                       | San Antonio, TX            | 71           | 5.1                                |
| 18                       | Columbus, OH               | 54           | 5.1                                |
| 19                       | New Orleans, LA            | 24           | 5.0                                |
| 20                       | Jacksonville, FL           | 38           | 4.9                                |
| 21                       | Phoenix, AZ                | 148          | 4.8                                |
| 22                       | Richmond, VA               | 9            | 4.6                                |
| 23                       | St Louis, MO               | 15           | 4.3                                |
| 24                       | Charlotte, NC              | 29           | 4.2                                |
| 25                       | New York City, NY          | 282          | 3.5                                |
| 26                       | Houston, TX                | 103          | 3.0                                |
| 27                       | Boston, MA                 | 18           | 3.0                                |
| 28                       | Fort Worth, TX             | 40           | 2.8                                |
| 29                       | Louisville, KY             | 19           | 2.7                                |
| 30                       | Denver, CO                 | 15           | 2.7                                |
| 31                       | Tucson, AZ                 | 22           | 2.6                                |
| 32                       | Seattle, WA                | 41           | 2.4                                |
| 33                       | Los Angeles, CA            | 186          | 2.1                                |
| 34                       | Austin, TX                 | 17           | 2.1                                |
| 35                       | Jersey City, NJ            | 5            | 2.1                                |
| 36                       | Milwaukee, WI              | 18           | 1.9                                |
| 37                       | Birmingham, AL             | 12           | 1.8                                |
| 38                       | El Paso, TX                | 12           | 1.8                                |
| 39                       | St Paul, MN                | 5            | 1.8                                |
| 40                       | Oakland, CA                | 23           | 1.7                                |
| 41                       | Portland, OR               | 9            | 1.7                                |
| 42                       | Tampa, FL                  | 15           | 1.5                                |
| 43                       | Albuquerque, NM            | 8            | 1.4                                |
| 44                       | Tulsa, OK                  | 5            | 1.3                                |
| 45                       | St Petersburg, FL          | 11           | 1.2                                |
| 46                       | Buffalo, NY                | 4            | 1.2                                |
| 47                       | Honolulu, HI               | 10           | 1.1                                |
| 48                       | Kansas City, MO            | 5            | 1.1                                |
| 49                       | San Diego, CA              | 27           | 1.0                                |
| 50                       | Wichita, KS                | 4            | 0.9                                |
| 51                       | Rochester, NY              | 2            | 0.8                                |
| 52                       | San Jose, CA               | 10           | 0.6                                |
| 53                       | Omaha, NE                  | 3            | 0.6                                |
| 54                       | Pittsburgh, PA             | 7            | 0.5                                |
| 55                       | Yonkers, NY                | 1            | 0.5                                |
| 56                       | Dayton, OH                 | 2            | 0.4                                |
| 57                       | Sacramento, CA             | 4            | 0.3                                |
| 58                       | Des Moines, IA             | 1            | 0.3                                |
| 59                       | Corpus Christi, TX         | 1            | 0.3                                |
|                          | <b>YEAR 2010 OBJECTIVE</b> |              | <b>0.2</b>                         |
| 60                       | Cleveland, OH              | 3            | 0.2                                |
| 61                       | Cincinnati, OH             | 2            | 0.2                                |
| 62                       | Akron, OH                  | 1            | 0.2                                |
| 63                       | Toledo, OH                 | 1            | 0.2                                |

\*Excludes outlying areas (San Juan, PR, with 68 cases and rate of 6.7).

<sup>1</sup>Cities were ranked in descending order by rate, number of cases, and alphabetically by state.

**Table 31. Primary and secondary syphilis — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001**

| City               | Cases |       |       |       |       | Rates per 100,000 Population |      |      |      |      |
|--------------------|-------|-------|-------|-------|-------|------------------------------|------|------|------|------|
|                    | 1997  | 1998  | 1999  | 2000  | 2001  | 1997                         | 1998 | 1999 | 2000 | 2001 |
| Akron, OH          | 4     | 3     | 0     | 0     | 1     | 0.8                          | 0.6  | 0.0  | 0.0  | 0.2  |
| Albuquerque, NM    | 9     | 11    | 11    | 11    | 8     | 1.7                          | 2.1  | 2.1  | 2.0  | 1.4  |
| Atlanta, GA        | 204   | 163   | 213   | 116   | 224   | 28.2                         | 22.0 | 28.6 | 14.2 | 27.5 |
| Austin, TX         | 8     | 15    | 19    | 8     | 17    | 1.2                          | 2.1  | 2.6  | 1.0  | 2.1  |
| Baltimore, MD      | 669   | 466   | 246   | 218   | 161   | 101.8                        | 72.2 | 38.9 | 33.5 | 24.7 |
| Birmingham, AL     | 107   | 36    | 24    | 24    | 12    | 16.2                         | 5.5  | 3.7  | 3.6  | 1.8  |
| Boston, MA         | 52    | 23    | 16    | 25    | 18    | 9.3                          | 4.1  | 2.9  | 4.2  | 3.0  |
| Buffalo, NY        | 2     | 4     | 1     | 1     | 4     | 0.6                          | 1.3  | 0.3  | 0.3  | 1.2  |
| Charlotte, NC      | 48    | 69    | 53    | 45    | 29    | 7.8                          | 10.9 | 8.2  | 6.5  | 4.2  |
| Chicago, IL        | 346   | 310   | 282   | 292   | 317   | 11.9                         | 10.4 | 9.5  | 9.5  | 10.3 |
| Cincinnati, OH     | 34    | 12    | 1     | 0     | 2     | 4.0                          | 1.4  | 0.1  | 0.0  | 0.2  |
| Cleveland, OH      | 61    | 30    | 12    | 4     | 3     | 4.4                          | 2.2  | 0.9  | 0.3  | 0.2  |
| Columbus, OH       | 54    | 55    | 43    | 40    | 54    | 5.3                          | 5.4  | 4.2  | 3.7  | 5.1  |
| Corpus Christi, TX | 2     | 0     | 1     | 1     | 1     | 0.6                          | 0.0  | 0.3  | 0.3  | 0.3  |
| Dallas, TX         | 148   | 126   | 151   | 100   | 121   | 7.3                          | 6.1  | 7.3  | 4.5  | 5.5  |
| Dayton, OH         | 28    | 6     | 2     | 5     | 2     | 5.0                          | 1.1  | 0.4  | 0.9  | 0.4  |
| Denver, CO         | 8     | 3     | 4     | 4     | 15    | 1.6                          | 0.6  | 0.8  | 0.7  | 2.7  |
| Des Moines, IA     | 0     | 3     | 0     | 1     | 1     | 0.0                          | 0.8  | 0.0  | 0.3  | 0.3  |
| Detroit, MI        | 94    | 152   | 189   | 274   | 351   | 8.6                          | 12.1 | 15.1 | 22.3 | 28.6 |
| El Paso, TX        | 3     | 2     | 9     | 6     | 12    | 0.4                          | 0.3  | 1.3  | 0.9  | 1.8  |
| Fort Worth, TX     | 39    | 26    | 22    | 22    | 40    | 2.9                          | 1.9  | 1.6  | 1.5  | 2.8  |
| Honolulu, HI       | 1     | 4     | 3     | 1     | 10    | 0.1                          | 0.5  | 0.3  | 0.1  | 1.1  |
| Houston, TX        | 180   | 99    | 77    | 70    | 103   | 5.7                          | 3.1  | 2.4  | 2.1  | 3.0  |
| Indianapolis, IN   | 71    | 165   | 407   | 301   | 128   | 8.7                          | 20.3 | 50.2 | 35.0 | 14.9 |
| Jacksonville, FL   | 36    | 16    | 7     | 24    | 38    | 4.9                          | 2.2  | 0.9  | 3.1  | 4.9  |
| Jersey City, NJ    | 9     | 1     | 3     | 1     | 5     | 4.1                          | 0.5  | 1.4  | 0.4  | 2.1  |
| Kansas City, MO    | 2     | 6     | 8     | 1     | 5     | 0.4                          | 1.3  | 1.8  | 0.2  | 1.1  |
| Los Angeles, CA    | 108   | 120   | 83    | 133   | 186   | 1.3                          | 1.4  | 1.0  | 1.5  | 2.1  |
| Louisville, KY     | 107   | 91    | 67    | 57    | 19    | 16.0                         | 13.5 | 10.0 | 8.2  | 2.7  |
| Memphis, TN        | 343   | 260   | 258   | 246   | 208   | 39.6                         | 29.9 | 29.6 | 27.4 | 23.2 |
| Miami, FL          | 49    | 31    | 82    | 126   | 185   | 2.4                          | 1.4  | 3.8  | 5.6  | 8.2  |
| Milwaukee, WI      | 84    | 71    | 39    | 43    | 18    | 9.2                          | 7.8  | 4.3  | 4.6  | 1.9  |
| Minneapolis, MN    | 12    | 4     | 6     | 9     | 23    | 3.1                          | 1.1  | 1.6  | 2.3  | 6.0  |
| Nashville, TN      | 203   | 210   | 250   | 200   | 76    | 38.0                         | 39.3 | 47.2 | 35.1 | 13.3 |
| New Orleans, LA    | 132   | 105   | 51    | 22    | 24    | 28.1                         | 22.6 | 11.1 | 4.5  | 5.0  |
| New York City, NY  | 97    | 81    | 130   | 117   | 282   | 1.3                          | 1.1  | 1.8  | 1.5  | 3.5  |
| Newark, NJ         | 26    | 27    | 22    | 28    | 58    | 9.1                          | 9.5  | 7.8  | 9.3  | 19.3 |
| Norfolk, VA        | 44    | 33    | 20    | 37    | 35    | 19.2                         | 15.3 | 8.9  | 15.8 | 14.9 |
| Oakland, CA        | 7     | 11    | 10    | 11    | 23    | 0.6                          | 0.9  | 0.8  | 0.8  | 1.7  |
| Oklahoma City, OK  | 39    | 61    | 114   | 82    | 35    | 8.9                          | 15.0 | 27.8 | 19.3 | 8.2  |
| Omaha, NE          | 1     | 4     | 5     | 2     | 3     | 0.2                          | 0.9  | 1.1  | 0.4  | 0.6  |
| Philadelphia, PA   | 108   | 89    | 69    | 67    | 79    | 7.4                          | 6.2  | 4.9  | 4.4  | 5.2  |
| Phoenix, AZ        | 118   | 173   | 195   | 172   | 148   | 4.4                          | 6.2  | 6.8  | 5.6  | 4.8  |
| Pittsburgh, PA     | 5     | 0     | 2     | 3     | 7     | 0.4                          | 0.0  | 0.2  | 0.2  | 0.5  |
| Portland, OR       | 3     | 4     | 5     | 11    | 9     | 0.6                          | 0.8  | 1.0  | 2.1  | 1.7  |
| Richmond, VA       | 49    | 22    | 13    | 5     | 9     | 25.5                         | 11.3 | 6.9  | 2.5  | 4.6  |
| Rochester, NY      | 2     | 7     | 0     | 1     | 2     | 0.8                          | 2.9  | 0.0  | 0.4  | 0.8  |
| Sacramento, CA     | 4     | 1     | 2     | 1     | 4     | 0.4                          | 0.1  | 0.2  | 0.1  | 0.3  |
| San Antonio, TX    | 27    | 26    | 31    | 67    | 71    | 2.0                          | 1.9  | 2.3  | 4.8  | 5.1  |
| San Diego, CA      | 23    | 24    | 25    | 27    | 27    | 0.8                          | 0.9  | 0.9  | 1.0  | 1.0  |
| San Francisco, CA  | 52    | 25    | 29    | 53    | 139   | 7.1                          | 3.4  | 3.9  | 6.8  | 17.9 |
| San Jose, CA       | 5     | 3     | 3     | 2     | 10    | 0.3                          | 0.2  | 0.2  | 0.1  | 0.6  |
| Seattle, WA        | 11    | 33    | 65    | 50    | 41    | 0.7                          | 2.0  | 3.9  | 2.9  | 2.4  |
| St Louis, MO       | 64    | 58    | 51    | 11    | 15    | 18.7                         | 17.1 | 15.3 | 3.2  | 4.3  |
| St Paul, MN        | 0     | 3     | 2     | 2     | 5     | 0.0                          | 1.1  | 0.7  | 0.7  | 1.8  |
| St Petersburg, FL  | 11    | 8     | 4     | 7     | 11    | 1.3                          | 0.9  | 0.5  | 0.8  | 1.2  |
| Tampa, FL          | 34    | 32    | 15    | 20    | 15    | 3.7                          | 3.5  | 1.6  | 2.0  | 1.5  |
| Toledo, OH         | 6     | 8     | 6     | 2     | 1     | 1.3                          | 1.8  | 1.3  | 0.4  | 0.2  |
| Tucson, AZ         | 12    | 7     | 8     | 8     | 22    | 1.5                          | 0.9  | 1.0  | 0.9  | 2.6  |
| Tulsa, OK          | 8     | 14    | 45    | 8     | 5     | 2.1                          | 3.7  | 11.7 | 2.0  | 1.3  |
| Washington, DC     | 117   | 81    | 45    | 37    | 43    | 22.1                         | 15.5 | 8.7  | 6.5  | 7.5  |
| Wichita, KS        | 16    | 3     | 7     | 2     | 4     | 3.6                          | 0.7  | 1.5  | 0.4  | 0.9  |
| Yonkers, NY        | 2     | 1     | 1     | 1     | 1     | 1.0                          | 0.5  | 0.5  | 0.5  | 0.5  |
| U.S. CITY TOTAL    | 4,148 | 3,537 | 3,564 | 3,265 | 3,525 | 6.0                          | 5.0  | 5.0  | 4.4  | 4.8  |
| San Juan, PR       | 99    | 79    | 61    | 68    | 68    | 11.4                         | 7.5  | 5.8  | 6.7  | 6.7  |
| TOTAL              | 4,247 | 3,616 | 3,625 | 3,333 | 3,593 | 6.0                          | 5.1  | 5.0  | 4.5  | 4.8  |

**Table 32. Primary and secondary syphilis — Women – Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001**

| City                         | Cases |       |       |       |       | Rates per 100,000 Population |      |      |      |      |
|------------------------------|-------|-------|-------|-------|-------|------------------------------|------|------|------|------|
|                              | 1997  | 1998  | 1999  | 2000  | 2001  | 1997                         | 1998 | 1999 | 2000 | 2001 |
| Akron, OH                    | 2     | 1     | 0     | 0     | 0     | 0.7                          | 0.4  | 0.0  | 0.0  | 0.0  |
| Albuquerque, NM              | 5     | 6     | 3     | 3     | 1     | 1.9                          | 2.2  | 1.1  | 1.1  | 0.4  |
| Atlanta, GA                  | 67    | 62    | 85    | 37    | 67    | 17.8                         | 16.0 | 21.8 | 8.9  | 16.2 |
| Austin, TX                   | 3     | 6     | 2     | 2     | 3     | 0.9                          | 1.7  | 0.5  | 0.5  | 0.8  |
| Baltimore, MD                | 309   | 222   | 112   | 92    | 77    | 87.9                         | 64.4 | 33.2 | 26.5 | 22.2 |
| Birmingham, AL               | 43    | 15    | 10    | 15    | 8     | 12.3                         | 4.3  | 2.9  | 4.3  | 2.3  |
| Boston, MA                   | 19    | 5     | 5     | 5     | 1     | 6.6                          | 1.7  | 1.7  | 1.6  | 0.3  |
| Buffalo, NY                  | 1     | 1     | 0     | 1     | 0     | 0.6                          | 0.6  | 0.0  | 0.6  | 0.0  |
| Charlotte, NC                | 18    | 36    | 18    | 24    | 12    | 5.7                          | 11.0 | 5.3  | 6.8  | 3.4  |
| Chicago, IL                  | 145   | 119   | 116   | 129   | 61    | 9.6                          | 7.7  | 7.5  | 8.1  | 3.8  |
| Cincinnati, OH               | 13    | 8     | 0     | 0     | 2     | 2.9                          | 1.8  | 0.0  | 0.0  | 0.5  |
| Cleveland, OH                | 27    | 15    | 3     | 2     | 2     | 3.7                          | 2.1  | 0.4  | 0.3  | 0.3  |
| Columbus, OH                 | 30    | 32    | 21    | 14    | 17    | 5.7                          | 6.0  | 3.9  | 2.5  | 3.1  |
| Corpus Christi, TX           | 0     | 0     | 1     | 1     | 1     | 0.0                          | 0.0  | 0.6  | 0.6  | 0.6  |
| Dallas, TX                   | 66    | 46    | 57    | 36    | 49    | 6.4                          | 4.4  | 5.4  | 3.2  | 4.4  |
| Dayton, OH                   | 15    | 3     | 0     | 1     | 1     | 5.1                          | 1.0  | 0.0  | 0.3  | 0.3  |
| Denver, CO                   | 3     | 2     | 3     | 0     | 2     | 1.2                          | 0.8  | 1.2  | 0.0  | 0.7  |
| Des Moines, IA               | 0     | 0     | 0     | 1     | 0     | 0.0                          | 0.0  | 0.0  | 0.5  | 0.0  |
| Detroit, MI                  | 45    | 67    | 74    | 121   | 136   | 7.9                          | 10.1 | 11.2 | 19.0 | 21.3 |
| El Paso, TX                  | 0     | 0     | 2     | 1     | 2     | 0.0                          | 0.0  | 0.5  | 0.3  | 0.6  |
| Fort Worth, TX               | 12    | 9     | 4     | 7     | 16    | 1.8                          | 1.3  | 0.6  | 1.0  | 2.2  |
| Honolulu, HI                 | 0     | 0     | 2     | 0     | 0     | 0.0                          | 0.0  | 0.5  | 0.0  | 0.0  |
| Houston, TX                  | 84    | 44    | 30    | 27    | 28    | 5.3                          | 2.7  | 1.8  | 1.6  | 1.6  |
| Indianapolis, IN             | 36    | 87    | 204   | 170   | 60    | 8.5                          | 20.4 | 48.0 | 38.2 | 13.5 |
| Jacksonville, FL             | 12    | 8     | 3     | 11    | 18    | 3.2                          | 2.1  | 0.8  | 2.7  | 4.5  |
| Jersey City, NJ              | 5     | 0     | 0     | 1     | 2     | 4.5                          | 0.0  | 0.0  | 0.8  | 1.6  |
| Kansas City, MO              | 1     | 2     | 5     | 0     | 2     | 0.4                          | 0.8  | 2.1  | 0.0  | 0.9  |
| Los Angeles, CA              | 32    | 50    | 25    | 19    | 9     | 0.7                          | 1.1  | 0.6  | 0.4  | 0.2  |
| Louisville, KY               | 51    | 45    | 30    | 26    | 9     | 14.5                         | 12.7 | 8.4  | 7.2  | 2.5  |
| Memphis, TN                  | 165   | 134   | 126   | 123   | 106   | 36.4                         | 29.4 | 27.5 | 26.2 | 22.6 |
| Miami, FL                    | 16    | 11    | 24    | 40    | 40    | 1.5                          | 1.0  | 2.1  | 3.4  | 3.4  |
| Milwaukee, WI                | 46    | 35    | 17    | 21    | 12    | 9.7                          | 7.3  | 3.6  | 4.3  | 2.5  |
| Minneapolis, MN              | 3     | 2     | 3     | 3     | 12    | 1.5                          | 1.1  | 1.6  | 1.5  | 6.2  |
| Nashville, TN                | 97    | 93    | 102   | 83    | 29    | 34.7                         | 33.1 | 36.6 | 28.2 | 9.9  |
| New Orleans, LA              | 57    | 41    | 24    | 8     | 11    | 22.7                         | 16.4 | 9.7  | 3.1  | 4.3  |
| New York City, NY            | 37    | 18    | 28    | 10    | 19    | 1.0                          | 0.5  | 0.7  | 0.2  | 0.5  |
| Newark, NJ                   | 12    | 14    | 10    | 9     | 21    | 8.0                          | 9.4  | 6.7  | 5.7  | 13.3 |
| Norfolk, VA                  | 25    | 13    | 7     | 14    | 20    | 22.5                         | 11.9 | 6.4  | 12.2 | 17.5 |
| Oakland, CA                  | 0     | 5     | 2     | 3     | 1     | 0.0                          | 0.8  | 0.3  | 0.4  | 0.1  |
| Oklahoma City, OK            | 15    | 26    | 42    | 39    | 18    | 6.6                          | 12.3 | 19.7 | 17.8 | 8.2  |
| Omaha, NE                    | 0     | 1     | 2     | 1     | 1     | 0.0                          | 0.4  | 0.9  | 0.4  | 0.4  |
| Philadelphia, PA             | 43    | 30    | 21    | 25    | 24    | 5.5                          | 3.9  | 2.8  | 3.1  | 3.0  |
| Phoenix, AZ                  | 31    | 64    | 62    | 75    | 39    | 2.3                          | 4.5  | 4.3  | 4.9  | 2.5  |
| Pittsburgh, PA               | 4     | 0     | 0     | 2     | 1     | 0.6                          | 0.0  | 0.0  | 0.3  | 0.1  |
| Portland, OR                 | 1     | 1     | 3     | 4     | 1     | 0.4                          | 0.4  | 1.2  | 1.5  | 0.4  |
| Richmond, VA                 | 21    | 8     | 7     | 2     | 3     | 20.0                         | 7.5  | 6.7  | 1.9  | 2.8  |
| Rochester, NY                | 1     | 4     | 0     | 0     | 1     | 0.8                          | 3.2  | 0.0  | 0.0  | 0.8  |
| Sacramento, CA               | 2     | 0     | 1     | 1     | 1     | 0.3                          | 0.0  | 0.2  | 0.2  | 0.2  |
| San Antonio, TX              | 12    | 8     | 10    | 23    | 24    | 1.7                          | 1.1  | 1.4  | 3.2  | 3.4  |
| San Diego, CA                | 5     | 7     | 6     | 6     | 6     | 0.4                          | 0.5  | 0.4  | 0.4  | 0.4  |
| San Francisco, CA            | 8     | 4     | 1     | 5     | 2     | 2.2                          | 1.1  | 0.3  | 1.3  | 0.5  |
| San Jose, CA                 | 0     | 1     | 0     | 0     | 1     | 0.0                          | 0.1  | 0.0  | 0.0  | 0.1  |
| Seattle, WA                  | 6     | 1     | 2     | 4     | 1     | 0.7                          | 0.1  | 0.2  | 0.5  | 0.1  |
| St Louis, MO                 | 36    | 25    | 28    | 3     | 6     | 19.4                         | 13.6 | 15.5 | 1.6  | 3.2  |
| St Paul, MN                  | 0     | 2     | 1     | 1     | 1     | 0.0                          | 1.4  | 0.7  | 0.7  | 0.7  |
| St Petersburg, FL            | 7     | 4     | 2     | 3     | 2     | 1.5                          | 0.9  | 0.4  | 0.6  | 0.4  |
| Tampa, FL                    | 21    | 20    | 7     | 10    | 6     | 4.5                          | 4.2  | 1.4  | 2.0  | 1.2  |
| Toledo, OH                   | 3     | 4     | 5     | 0     | 0     | 1.3                          | 1.7  | 2.1  | 0.0  | 0.0  |
| Tucson, AZ                   | 5     | 1     | 1     | 2     | 5     | 1.3                          | 0.2  | 0.2  | 0.5  | 1.2  |
| Tulsa, OK                    | 4     | 6     | 22    | 4     | 1     | 2.0                          | 3.0  | 11.1 | 2.0  | 0.5  |
| Washington, DC               | 58    | 34    | 24    | 10    | 8     | 20.7                         | 12.2 | 8.7  | 3.3  | 2.6  |
| Wichita, KS                  | 4     | 1     | 4     | 1     | 1     | 1.8                          | 0.4  | 1.7  | 0.4  | 0.4  |
| Yonkers, NY                  | 0     | 1     | 0     | 0     | 0     | 0.0                          | 1.0  | 0.0  | 0.0  | 0.0  |
| U.S. CITY TOTAL <sup>1</sup> | 1,789 | 1,510 | 1,409 | 1,281 | 1,010 | 5.0                          | 4.1  | 3.8  | 3.4  | 2.7  |
| San Juan, PR                 | 41    | 38    | 34    | 32    | 38    | 8.5                          | 7.0  | 6.2  | 6.0  | 7.2  |
| TOTAL                        | 1,830 | 1,548 | 1,443 | 1,313 | 1,048 | 5.0                          | 4.2  | 3.9  | 3.4  | 2.7  |

<sup>1</sup>Cases reported with unknown sex are not included in this table.

**Table 33. Primary and secondary syphilis — Men – Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001**

| City                         | Cases |       |       |       |       | Rates per 100,000 Population |      |      |      |      |
|------------------------------|-------|-------|-------|-------|-------|------------------------------|------|------|------|------|
|                              | 1997  | 1998  | 1999  | 2000  | 2001  | 1997                         | 1998 | 1999 | 2000 | 2001 |
| Akron, OH                    | 2     | 2     | 0     | 0     | 1     | 0.8                          | 0.8  | 0.0  | 0.0  | 0.4  |
| Albuquerque, NM              | 4     | 5     | 8     | 8     | 7     | 1.6                          | 2.0  | 3.1  | 2.9  | 2.6  |
| Atlanta, GA                  | 137   | 101   | 128   | 79    | 157   | 39.6                         | 28.6 | 36.0 | 19.7 | 39.1 |
| Austin, TX                   | 5     | 9     | 16    | 6     | 14    | 1.4                          | 2.5  | 4.4  | 1.4  | 3.4  |
| Baltimore, MD                | 359   | 244   | 134   | 126   | 84    | 117.4                        | 81.0 | 45.4 | 41.5 | 27.7 |
| Birmingham, AL               | 64    | 21    | 14    | 9     | 4     | 20.8                         | 6.8  | 4.6  | 2.9  | 1.3  |
| Boston, MA                   | 33    | 18    | 11    | 20    | 17    | 12.3                         | 6.7  | 4.1  | 6.9  | 5.9  |
| Buffalo, NY                  | 1     | 3     | 1     | 0     | 4     | 0.7                          | 2.0  | 0.7  | 0.0  | 2.6  |
| Charlotte, NC                | 30    | 33    | 35    | 21    | 17    | 10.1                         | 10.9 | 11.2 | 6.2  | 5.0  |
| Chicago, IL                  | 201   | 191   | 166   | 163   | 256   | 14.3                         | 13.3 | 11.6 | 10.9 | 17.1 |
| Cincinnati, OH               | 21    | 4     | 1     | 0     | 0     | 5.2                          | 1.0  | 0.3  | 0.0  | 0.0  |
| Cleveland, OH                | 34    | 15    | 9     | 2     | 1     | 5.2                          | 2.3  | 1.4  | 0.3  | 0.2  |
| Columbus, OH                 | 24    | 23    | 22    | 26    | 37    | 4.9                          | 4.7  | 4.4  | 5.0  | 7.1  |
| Corpus Christi, TX           | 2     | 0     | 0     | 0     | 0     | 1.3                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Dallas, TX                   | 82    | 80    | 94    | 64    | 72    | 8.2                          | 7.9  | 9.3  | 5.8  | 6.5  |
| Dayton, OH                   | 13    | 3     | 2     | 4     | 1     | 4.8                          | 1.1  | 0.7  | 1.5  | 0.4  |
| Denver, CO                   | 5     | 1     | 1     | 4     | 13    | 2.1                          | 0.4  | 0.4  | 1.4  | 4.6  |
| Des Moines, IA               | 0     | 3     | 0     | 0     | 1     | 0.0                          | 1.7  | 0.0  | 0.0  | 0.6  |
| Detroit, MI                  | 49    | 85    | 115   | 153   | 215   | 9.5                          | 14.2 | 19.4 | 26.0 | 36.5 |
| El Paso, TX                  | 3     | 2     | 7     | 5     | 10    | 0.9                          | 0.6  | 2.1  | 1.5  | 3.1  |
| Fort Worth, TX               | 27    | 17    | 18    | 15    | 24    | 4.1                          | 2.5  | 2.6  | 2.1  | 3.4  |
| Honolulu, HI                 | 1     | 4     | 1     | 1     | 10    | 0.2                          | 0.9  | 0.2  | 0.2  | 2.3  |
| Houston, TX                  | 96    | 55    | 47    | 43    | 75    | 6.1                          | 3.5  | 2.9  | 2.5  | 4.4  |
| Indianapolis, IN             | 35    | 78    | 203   | 131   | 68    | 9.0                          | 20.2 | 52.7 | 31.5 | 16.3 |
| Jacksonville, FL             | 24    | 8     | 4     | 13    | 20    | 6.8                          | 2.2  | 1.1  | 3.4  | 5.3  |
| Jersey City, NJ              | 4     | 1     | 3     | 0     | 3     | 3.8                          | 0.9  | 2.8  | 0.0  | 2.5  |
| Kansas City, MO              | 1     | 4     | 3     | 1     | 3     | 0.5                          | 1.9  | 1.4  | 0.5  | 1.4  |
| Los Angeles, CA              | 76    | 70    | 57    | 112   | 175   | 1.8                          | 1.6  | 1.3  | 2.5  | 4.0  |
| Louisville, KY               | 56    | 46    | 37    | 31    | 10    | 17.6                         | 14.5 | 11.6 | 9.3  | 3.0  |
| Memphis, TN                  | 178   | 126   | 132   | 123   | 102   | 43.1                         | 30.5 | 31.8 | 28.7 | 23.8 |
| Miami, FL                    | 33    | 20    | 58    | 86    | 145   | 3.4                          | 1.9  | 5.6  | 7.9  | 13.3 |
| Milwaukee, WI                | 38    | 36    | 22    | 22    | 6     | 8.8                          | 8.3  | 5.1  | 4.9  | 1.3  |
| Minneapolis, MN              | 9     | 2     | 3     | 6     | 11    | 4.8                          | 1.1  | 1.7  | 3.2  | 5.8  |
| Nashville, TN                | 106   | 117   | 148   | 117   | 47    | 41.7                         | 46.2 | 58.9 | 42.4 | 17.0 |
| New Orleans, LA              | 75    | 64    | 27    | 14    | 13    | 34.5                         | 29.7 | 12.6 | 6.2  | 5.7  |
| New York City, NY            | 60    | 63    | 102   | 107   | 263   | 1.7                          | 1.8  | 2.9  | 2.8  | 6.9  |
| Newark, NJ                   | 14    | 13    | 12    | 19    | 37    | 10.4                         | 9.7  | 8.9  | 13.3 | 25.9 |
| Norfolk, VA                  | 19    | 20    | 13    | 23    | 15    | 16.1                         | 18.9 | 11.2 | 19.2 | 12.5 |
| Oakland, CA                  | 7     | 6     | 8     | 8     | 22    | 1.1                          | 1.0  | 1.3  | 1.2  | 3.4  |
| Oklahoma City, OK            | 24    | 35    | 72    | 43    | 17    | 11.3                         | 17.9 | 36.6 | 20.8 | 8.2  |
| Omaha, NE                    | 1     | 3     | 3     | 1     | 2     | 0.5                          | 1.4  | 1.4  | 0.4  | 0.9  |
| Philadelphia, PA             | 65    | 59    | 48    | 42    | 55    | 9.6                          | 8.9  | 7.3  | 6.0  | 7.8  |
| Phoenix, AZ                  | 87    | 109   | 133   | 97    | 109   | 6.5                          | 7.9  | 9.4  | 6.3  | 7.1  |
| Pittsburgh, PA               | 1     | 0     | 2     | 1     | 6     | 0.2                          | 0.0  | 0.3  | 0.2  | 1.0  |
| Portland, OR                 | 2     | 3     | 2     | 7     | 8     | 0.8                          | 1.2  | 0.8  | 2.7  | 3.1  |
| Richmond, VA                 | 28    | 14    | 6     | 3     | 6     | 32.1                         | 16.0 | 7.0  | 3.3  | 6.5  |
| Rochester, NY                | 1     | 3     | 0     | 1     | 1     | 0.9                          | 2.6  | 0.0  | 0.8  | 0.8  |
| Sacramento, CA               | 2     | 1     | 1     | 0     | 3     | 0.4                          | 0.2  | 0.2  | 0.0  | 0.5  |
| San Antonio, TX              | 15    | 18    | 20    | 44    | 47    | 2.3                          | 2.8  | 3.0  | 6.5  | 6.9  |
| San Diego, CA                | 18    | 17    | 19    | 21    | 21    | 1.3                          | 1.2  | 1.3  | 1.5  | 1.5  |
| San Francisco, CA            | 44    | 21    | 28    | 48    | 137   | 12.2                         | 5.7  | 7.6  | 12.2 | 34.7 |
| San Jose, CA                 | 5     | 2     | 3     | 2     | 9     | 0.6                          | 0.2  | 0.4  | 0.2  | 1.1  |
| Seattle, WA                  | 5     | 32    | 63    | 46    | 40    | 0.6                          | 3.9  | 7.7  | 5.3  | 4.6  |
| St Louis, MO                 | 28    | 33    | 23    | 8     | 9     | 17.9                         | 21.2 | 15.0 | 4.9  | 5.5  |
| St Paul, MN                  | 0     | 1     | 1     | 1     | 4     | 0.0                          | 0.8  | 0.8  | 0.7  | 2.9  |
| St Petersburg, FL            | 4     | 4     | 2     | 4     | 9     | 1.0                          | 1.0  | 0.5  | 0.9  | 2.1  |
| Tampa, FL                    | 13    | 12    | 8     | 10    | 9     | 2.9                          | 2.7  | 1.7  | 2.0  | 1.8  |
| Toledo, OH                   | 3     | 4     | 1     | 2     | 1     | 1.4                          | 1.9  | 0.5  | 0.9  | 0.5  |
| Tucson, AZ                   | 7     | 6     | 7     | 6     | 17    | 1.8                          | 1.6  | 1.8  | 1.5  | 4.1  |
| Tulsa, OK                    | 4     | 8     | 23    | 4     | 4     | 2.1                          | 4.4  | 12.4 | 2.1  | 2.1  |
| Washington, DC               | 59    | 47    | 21    | 27    | 35    | 23.8                         | 19.2 | 8.6  | 10.0 | 13.0 |
| Wichita, KS                  | 12    | 2     | 3     | 1     | 3     | 5.6                          | 0.9  | 1.4  | 0.4  | 1.3  |
| Yonkers, NY                  | 2     | 0     | 1     | 1     | 1     | 2.2                          | 0.0  | 1.1  | 1.1  | 1.1  |
| U.S. CITY TOTAL <sup>1</sup> | 2,358 | 2,027 | 2,152 | 1,982 | 2,513 | 7.0                          | 5.9  | 6.3  | 5.5  | 7.0  |
| San Juan, PR                 | 58    | 41    | 27    | 36    | 30    | 14.8                         | 8.2  | 5.3  | 7.4  | 6.1  |
| TOTAL                        | 2,416 | 2,068 | 2,179 | 2,018 | 2,543 | 7.1                          | 6.0  | 6.2  | 5.5  | 7.0  |

<sup>1</sup>Cases reported with unknown sex are not included in this table.

**Table 34. Primary and secondary syphilis — Reported cases and rates per 100,000 population by age and sex: United States, 1997–2001**

| Year | Age Group | Cases |       |        | Rates |      |        |
|------|-----------|-------|-------|--------|-------|------|--------|
|      |           | Total | Male  | Female | Total | Male | Female |
| 1997 | 10-14     | 43    | 4     | 39     | 0.2   | 0.0  | 0.4    |
|      | 15-19     | 778   | 255   | 523    | 4.1   | 2.6  | 5.7    |
|      | 20-24     | 1,318 | 619   | 699    | 7.5   | 6.9  | 8.2    |
|      | 25-29     | 1,435 | 721   | 714    | 7.6   | 7.6  | 7.6    |
|      | 30-34     | 1,477 | 761   | 716    | 7.1   | 7.4  | 6.9    |
|      | 35-39     | 1,407 | 780   | 627    | 6.2   | 6.9  | 5.5    |
|      | 40-44     | 944   | 628   | 317    | 4.4   | 5.9  | 2.9    |
|      | 45-54     | 771   | 565   | 205    | 2.3   | 3.4  | 1.2    |
|      | 55-64     | 256   | 224   | 32     | 1.2   | 2.2  | 0.3    |
|      | 65+       | 107   | 99    | 8      | 0.3   | 0.7  | 0.0    |
|      | TOTAL     | 8,548 | 4,660 | 3,888  | 3.2   | 3.6  | 2.8    |
| 1998 | 10-14     | 39    | 5     | 34     | 0.2   | 0.1  | 0.4    |
|      | 15-19     | 612   | 193   | 418    | 3.1   | 1.9  | 4.4    |
|      | 20-24     | 1,030 | 509   | 521    | 5.8   | 5.7  | 6.0    |
|      | 25-29     | 1,029 | 508   | 521    | 5.5   | 5.5  | 5.6    |
|      | 30-34     | 1,179 | 626   | 553    | 5.8   | 6.3  | 5.4    |
|      | 35-39     | 1,178 | 683   | 494    | 5.2   | 6.1  | 4.3    |
|      | 40-44     | 831   | 533   | 298    | 3.8   | 4.9  | 2.7    |
|      | 45-54     | 780   | 577   | 203    | 2.3   | 3.4  | 1.1    |
|      | 55-64     | 232   | 194   | 37     | 1.0   | 1.8  | 0.3    |
|      | 65+       | 102   | 86    | 16     | 0.3   | 0.6  | 0.1    |
|      | TOTAL     | 7,018 | 3,918 | 3,100  | 2.6   | 3.0  | 2.2    |
| 1999 | 10-14     | 25    | 2     | 23     | 0.1   | 0.0  | 0.2    |
|      | 15-19     | 522   | 183   | 340    | 2.6   | 1.8  | 3.5    |
|      | 20-24     | 963   | 510   | 452    | 5.3   | 5.6  | 5.1    |
|      | 25-29     | 992   | 508   | 483    | 5.4   | 5.6  | 5.3    |
|      | 30-34     | 1,084 | 589   | 495    | 5.5   | 6.0  | 5.0    |
|      | 35-39     | 1,153 | 676   | 477    | 5.1   | 6.0  | 4.2    |
|      | 40-44     | 808   | 537   | 271    | 3.6   | 4.9  | 2.4    |
|      | 45-54     | 753   | 572   | 181    | 2.1   | 3.3  | 1.0    |
|      | 55-64     | 228   | 188   | 40     | 1.0   | 1.7  | 0.3    |
|      | 65+       | 74    | 65    | 9      | 0.2   | 0.5  | 0.0    |
|      | TOTAL     | 6,613 | 3,833 | 2,780  | 2.4   | 2.9  | 2.0    |
| 2000 | 10-14     | 23    | 4     | 19     | 0.1   | 0.0  | 0.2    |
|      | 15-19     | 457   | 162   | 295    | 2.3   | 1.6  | 3.0    |
|      | 20-24     | 881   | 419   | 462    | 4.6   | 4.3  | 5.0    |
|      | 25-29     | 902   | 527   | 376    | 4.7   | 5.4  | 3.9    |
|      | 30-34     | 957   | 553   | 404    | 4.7   | 5.4  | 4.0    |
|      | 35-39     | 1,006 | 606   | 400    | 4.4   | 5.3  | 3.5    |
|      | 40-44     | 782   | 502   | 280    | 3.5   | 4.5  | 2.5    |
|      | 45-54     | 706   | 528   | 178    | 1.9   | 2.9  | 0.9    |
|      | 55-64     | 179   | 157   | 22     | 0.7   | 1.3  | 0.2    |
|      | 65+       | 76    | 68    | 8      | 0.2   | 0.5  | 0.0    |
|      | TOTAL     | 5,973 | 3,528 | 2,445  | 2.1   | 2.6  | 1.7    |
| 2001 | 10-14     | 19    | 2     | 17     | 0.1   | 0.0  | 0.2    |
|      | 15-19     | 387   | 142   | 245    | 1.9   | 1.4  | 2.5    |
|      | 20-24     | 836   | 482   | 354    | 4.4   | 5.0  | 3.8    |
|      | 25-29     | 876   | 583   | 293    | 4.5   | 5.9  | 3.1    |
|      | 30-34     | 964   | 660   | 304    | 4.7   | 6.4  | 3.0    |
|      | 35-39     | 1,146 | 818   | 328    | 5.0   | 7.2  | 2.9    |
|      | 40-44     | 808   | 587   | 221    | 3.6   | 5.3  | 2.0    |
|      | 45-54     | 805   | 632   | 173    | 2.1   | 3.4  | 0.9    |
|      | 55-64     | 193   | 167   | 26     | 0.8   | 1.4  | 0.2    |
|      | 65+       | 64    | 57    | 7      | 0.2   | 0.4  | 0.0    |
|      | TOTAL     | 6,100 | 4,132 | 1,968  | 2.2   | 3.0  | 1.4    |

NOTE: This table should be used only for age comparisons. This is because, if age was not specified, cases were prorated according to the distribution of cases for which age was known. Differences between total cases from this table and others in the report are due to different reporting forms. The 0 to 9 year age group is not shown because some of these may not be due to sexual transmission; however, they are included in the totals.

**Table 35A. Primary and secondary syphilis — Reported cases by age, sex, and race/ethnicity: United States, 1997–2001**

| Age Group | Total |       |        | White, Non-Hispanic |       |        | Black, Non-Hispanic |       |        | Hispanic |      |        | Asian/Pacific Islander |      |        | American Indian/<br>Alaska Native |      |        |    |
|-----------|-------|-------|--------|---------------------|-------|--------|---------------------|-------|--------|----------|------|--------|------------------------|------|--------|-----------------------------------|------|--------|----|
|           | Total | Male  | Female | Total               | Male  | Female | Total               | Male  | Female | Total    | Male | Female | Total                  | Male | Female | Total                             | Male | Female |    |
| 1997      | 10-14 | 43    | 4      | 39                  | 4     | 0      | 4                   | 36    | 3      | 33       | 3    | 1      | 2                      | 0    | 0      | 0                                 | 0    | 0      | 0  |
|           | 15-19 | 778   | 255    | 523                 | 70    | 16     | 54                  | 649   | 214    | 435      | 55   | 24     | 31                     | 3    | 1      | 2                                 | 1    | 0      | 1  |
|           | 20-24 | 1,318 | 619    | 699                 | 110   | 44     | 66                  | 1,115 | 517    | 598      | 80   | 54     | 27                     | 6    | 1      | 5                                 | 7    | 3      | 4  |
|           | 25-29 | 1,435 | 721    | 714                 | 142   | 66     | 76                  | 1,180 | 569    | 611      | 102  | 77     | 26                     | 4    | 4      | 0                                 | 7    | 5      | 2  |
|           | 30-34 | 1,477 | 761    | 716                 | 161   | 73     | 88                  | 1,229 | 632    | 597      | 74   | 52     | 23                     | 7    | 3      | 4                                 | 6    | 2      | 4  |
|           | 35-39 | 1,407 | 780    | 627                 | 196   | 100    | 97                  | 1,153 | 639    | 514      | 50   | 38     | 12                     | 3    | 2      | 1                                 | 5    | 2      | 3  |
|           | 40-44 | 944   | 628    | 317                 | 107   | 75     | 32                  | 787   | 522    | 265      | 38   | 24     | 14                     | 5    | 2      | 3                                 | 7    | 5      | 2  |
|           | 45-54 | 771   | 565    | 205                 | 107   | 82     | 26                  | 622   | 456    | 166      | 30   | 20     | 10                     | 4    | 2      | 2                                 | 7    | 5      | 2  |
|           | 55-64 | 256   | 224    | 32                  | 52    | 44     | 8                   | 186   | 162    | 24       | 17   | 17     | 0                      | 0    | 0      | 0                                 | 0    | 0      | 0  |
|           | 65+   | 107   | 99     | 8                   | 25    | 24     | 1                   | 74    | 67     | 7        | 9    | 9      | 0                      | 0    | 0      | 0                                 | 0    | 0      | 0  |
| TOTAL     | 8,548 | 4,660 | 3,888  | 975                 | 523   | 453    | 7,040               | 3,785 | 3,255  | 459      | 315  | 145    | 33                     | 15   | 17     | 41                                | 23   | 18     |    |
| 1998      | 10-14 | 39    | 5      | 34                  | 4     | 0      | 4                   | 34    | 5      | 29       | 1    | 0      | 1                      | 0    | 0      | 0                                 | 0    | 0      | 0  |
|           | 15-19 | 612   | 193    | 418                 | 54    | 11     | 43                  | 504   | 163    | 342      | 43   | 16     | 27                     | 3    | 0      | 3                                 | 7    | 3      | 4  |
|           | 20-24 | 1,029 | 509    | 521                 | 105   | 30     | 75                  | 835   | 418    | 417      | 73   | 52     | 21                     | 5    | 3      | 2                                 | 11   | 6      | 5  |
|           | 25-29 | 1,028 | 508    | 520                 | 130   | 50     | 79                  | 782   | 383    | 398      | 100  | 65     | 35                     | 5    | 4      | 1                                 | 12   | 5      | 7  |
|           | 30-34 | 1,179 | 626    | 553                 | 146   | 77     | 69                  | 949   | 484    | 465      | 65   | 54     | 11                     | 9    | 7      | 2                                 | 9    | 4      | 5  |
|           | 35-39 | 1,178 | 683    | 494                 | 172   | 104    | 68                  | 927   | 523    | 404      | 65   | 46     | 18                     | 7    | 6      | 1                                 | 7    | 4      | 3  |
|           | 40-44 | 831   | 533    | 298                 | 129   | 95     | 35                  | 653   | 404    | 250      | 40   | 30     | 10                     | 3    | 2      | 1                                 | 5    | 3      | 2  |
|           | 45-54 | 780   | 577    | 203                 | 123   | 102    | 20                  | 610   | 439    | 171      | 45   | 35     | 10                     | 1    | 1      | 0                                 | 1    | 0      | 1  |
|           | 55-64 | 232   | 194    | 37                  | 51    | 48     | 3                   | 161   | 129    | 32       | 16   | 14     | 2                      | 2    | 2      | 0                                 | 2    | 2      | 0  |
|           | 65+   | 102   | 86     | 16                  | 21    | 18     | 3                   | 71    | 60     | 11       | 9    | 7      | 2                      | 0    | 0      | 0                                 | 1    | 1      | 0  |
| TOTAL     | 7,018 | 3,918 | 3,100  | 936                 | 536   | 400    | 5,534               | 3,009 | 2,524  | 457      | 319  | 138    | 36                     | 26   | 10     | 56                                | 29   | 28     |    |
| 1999      | 10-14 | 25    | 2      | 23                  | 3     | 1      | 2                   | 21    | 1      | 20       | 1    | 0      | 1                      | 0    | 0      | 0                                 | 0    | 0      | 0  |
|           | 15-19 | 522   | 182    | 340                 | 49    | 16     | 32                  | 421   | 139    | 282      | 44   | 24     | 19                     | 1    | 1      | 0                                 | 8    | 2      | 6  |
|           | 20-24 | 963   | 510    | 452                 | 120   | 46     | 74                  | 717   | 381    | 336      | 110  | 75     | 35                     | 5    | 3      | 2                                 | 10   | 5      | 5  |
|           | 25-29 | 991   | 508    | 482                 | 137   | 67     | 70                  | 741   | 364    | 376      | 94   | 67     | 26                     | 7    | 7      | 0                                 | 11   | 2      | 9  |
|           | 30-34 | 1,084 | 589    | 496                 | 168   | 98     | 70                  | 801   | 411    | 390      | 97   | 73     | 24                     | 12   | 6      | 6                                 | 6    | 1      | 5  |
|           | 35-39 | 1,153 | 677    | 476                 | 189   | 112    | 77                  | 883   | 501    | 382      | 69   | 56     | 12                     | 4    | 4      | 0                                 | 8    | 3      | 5  |
|           | 40-44 | 808   | 538    | 271                 | 142   | 98     | 44                  | 601   | 390    | 211      | 56   | 46     | 9                      | 8    | 3      | 4                                 | 2    | 0      | 2  |
|           | 45-54 | 753   | 572    | 181                 | 139   | 96     | 43                  | 561   | 430    | 130      | 42   | 36     | 6                      | 5    | 5      | 0                                 | 6    | 4      | 2  |
|           | 55-64 | 228   | 188    | 40                  | 53    | 41     | 12                  | 151   | 129    | 22       | 22   | 16     | 5                      | 1    | 0      | 1                                 | 1    | 1      | 0  |
|           | 65+   | 74    | 65     | 9                   | 24    | 22     | 2                   | 46    | 39     | 7        | 4    | 4      | 0                      | 0    | 0      | 0                                 | 0    | 0      | 0  |
| TOTAL     | 6,612 | 3,833 | 2,779  | 1,026               | 598   | 428    | 4,950               | 2,788 | 2,163  | 538      | 399  | 139    | 43                     | 30   | 13     | 54                                | 18   | 36     |    |
| 2000      | 10-14 | 23    | 4      | 19                  | 2     | 0      | 2                   | 20    | 4      | 16       | 0    | 0      | 0                      | 0    | 0      | 0                                 | 1    | 0      | 1  |
|           | 15-19 | 457   | 162    | 295                 | 47    | 11     | 35                  | 365   | 129    | 236      | 41   | 21     | 19                     | 1    | 0      | 1                                 | 4    | 1      | 3  |
|           | 20-24 | 881   | 419    | 462                 | 110   | 40     | 70                  | 653   | 310    | 344      | 101  | 66     | 35                     | 4    | 1      | 3                                 | 13   | 3      | 10 |
|           | 25-29 | 902   | 527    | 376                 | 146   | 93     | 53                  | 631   | 338    | 293      | 108  | 82     | 27                     | 8    | 7      | 1                                 | 9    | 7      | 2  |
|           | 30-34 | 957   | 553    | 404                 | 182   | 119    | 62                  | 665   | 350    | 314      | 94   | 72     | 22                     | 12   | 10     | 2                                 | 5    | 2      | 3  |
|           | 35-39 | 1,006 | 606    | 400                 | 216   | 143    | 72                  | 664   | 374    | 291      | 113  | 81     | 32                     | 5    | 4      | 1                                 | 7    | 3      | 4  |
|           | 40-44 | 782   | 502    | 280                 | 173   | 118    | 55                  | 550   | 341    | 209      | 51   | 38     | 13                     | 2    | 2      | 0                                 | 5    | 3      | 2  |
|           | 45-54 | 706   | 528    | 178                 | 145   | 114    | 31                  | 511   | 375    | 136      | 43   | 32     | 11                     | 4    | 4      | 0                                 | 4    | 4      | 0  |
|           | 55-64 | 179   | 157    | 22                  | 42    | 40     | 2                   | 124   | 106    | 18       | 11   | 10     | 1                      | 0    | 0      | 0                                 | 2    | 1      | 1  |
|           | 65+   | 76    | 68     | 8                   | 21    | 19     | 2                   | 50    | 44     | 6        | 3    | 3      | 0                      | 1    | 1      | 0                                 | 1    | 1      | 0  |
| TOTAL     | 5,972 | 3,527 | 2,445  | 1,083               | 698   | 385    | 4,233               | 2,369 | 1,864  | 567      | 405  | 162    | 37                     | 29   | 8      | 52                                | 26   | 26     |    |
| 2001      | 10-14 | 19    | 2      | 17                  | 0     | 0      | 0                   | 17    | 1      | 16       | 2    | 1      | 1                      | 0    | 0      | 0                                 | 0    | 0      | 0  |
|           | 15-19 | 387   | 142    | 245                 | 32    | 13     | 19                  | 290   | 97     | 193      | 59   | 29     | 29                     | 2    | 1      | 1                                 | 4    | 2      | 2  |
|           | 20-24 | 836   | 482    | 354                 | 114   | 72     | 42                  | 562   | 296    | 266      | 138  | 105    | 34                     | 6    | 5      | 1                                 | 15   | 4      | 11 |
|           | 25-29 | 876   | 583    | 293                 | 152   | 121    | 31                  | 554   | 323    | 231      | 140  | 115    | 26                     | 13   | 13     | 0                                 | 18   | 11     | 6  |
|           | 30-34 | 964   | 660    | 304                 | 236   | 192    | 44                  | 563   | 330    | 233      | 137  | 117    | 20                     | 12   | 12     | 0                                 | 17   | 9      | 7  |
|           | 35-39 | 1,146 | 818    | 328                 | 332   | 281    | 51                  | 653   | 397    | 255      | 134  | 120    | 13                     | 15   | 14     | 1                                 | 13   | 5      | 7  |
|           | 40-44 | 808   | 587    | 221                 | 227   | 193    | 34                  | 505   | 335    | 170      | 59   | 48     | 11                     | 2    | 2      | 0                                 | 15   | 10     | 5  |
|           | 45-54 | 805   | 632    | 173                 | 220   | 196    | 24                  | 513   | 377    | 137      | 61   | 52     | 9                      | 4    | 3      | 1                                 | 6    | 4      | 2  |
|           | 55-64 | 193   | 167    | 26                  | 51    | 48     | 3                   | 121   | 100    | 21       | 18   | 16     | 2                      | 2    | 2      | 0                                 | 2    | 2      | 0  |
|           | 65+   | 64    | 57     | 7                   | 23    | 22     | 1                   | 36    | 30     | 6        | 4    | 4      | 0                      | 0    | 0      | 0                                 | 1    | 1      | 0  |
| TOTAL     | 6,100 | 4,132 | 1,968  | 1,387               | 1,138 | 249    | 3,813               | 2,286 | 1,527  | 754      | 607  | 146    | 55                     | 51   | 4      | 90                                | 49   | 41     |    |

NOTE: These tables should be used only for race/ethnicity comparisons, not for age, sex or overall totals. This is because, if age or race/ethnicity was not specified, cases were prorated according to the distribution of cases for which these variables were specified. For the following years, the states listed did not report age and/or race/ethnicity for most cases and were excluded: 1997 (ID, NJ, NY); 1998 (ID, NJ); 1999 (NH). Cases and population denominators have been excluded for these states/areas. Differences between total cases from this table and others in the report are due to different reporting forms and above exclusions. The 0 to 9 year age group is not shown because some of these may not be due to sexual transmission; however, they are included in the totals.

**Table 35B. Primary and secondary syphilis — Reported rates per 100,000 population by age, sex, and race/ethnicity: United States, 1997–2001**

| Age Group | Total |      |        | White, Non-Hispanic |      |        | Black, Non-Hispanic |      |        | Hispanic |      |        | Asian/Pacific Islander |      |        | American Indian/<br>Alaska Native |      |        |
|-----------|-------|------|--------|---------------------|------|--------|---------------------|------|--------|----------|------|--------|------------------------|------|--------|-----------------------------------|------|--------|
|           | Total | Male | Female | Total               | Male | Female | Total               | Male | Female | Total    | Male | Female | Total                  | Male | Female | Total                             | Male | Female |
| 10-14     | 0.2   | 0.0  | 0.4    | 0.0                 | 0.0  | 0.1    | 1.3                 | 0.2  | 2.4    | 0.1      | 0.1  | 0.2    | 0.0                    | 0.0  | 0.0    | 0.0                               | 0.0  | 0.0    |
| 15-19     | 4.1   | 2.6  | 5.7    | 0.5                 | 0.2  | 0.9    | 23.0                | 14.9 | 31.3   | 2.1      | 1.7  | 2.6    | 0.4                    | 0.3  | 0.6    | 0.5                               | 0.0  | 1.1    |
| 20-24     | 7.5   | 6.9  | 8.2    | 0.9                 | 0.7  | 1.2    | 45.2                | 42.5 | 47.9   | 3.1      | 3.8  | 2.3    | 0.9                    | 0.3  | 1.4    | 4.6                               | 3.9  | 5.3    |
| 25-29     | 7.6   | 7.6  | 7.6    | 1.1                 | 1.0  | 1.2    | 47.6                | 48.2 | 47.1   | 4.0      | 5.5  | 2.2    | 0.5                    | 1.0  | 0.0    | 4.6                               | 6.4  | 2.7    |
| 30-34     | 7.1   | 7.4  | 6.9    | 1.1                 | 1.0  | 1.2    | 47.1                | 51.8 | 42.9   | 2.8      | 3.6  | 1.8    | 0.9                    | 0.8  | 0.9    | 4.1                               | 2.7  | 5.4    |
| 35-39     | 6.2   | 6.9  | 5.5    | 1.2                 | 1.2  | 1.2    | 42.4                | 50.3 | 35.5   | 2.1      | 3.0  | 1.1    | 0.4                    | 0.5  | 0.2    | 3.3                               | 2.7  | 3.9    |
| 40-44     | 4.4   | 5.9  | 2.9    | 0.7                 | 0.9  | 0.4    | 31.9                | 45.5 | 20.1   | 1.9      | 2.4  | 1.5    | 0.6                    | 0.6  | 0.7    | 5.0                               | 7.4  | 2.7    |
| 45-54     | 2.3   | 3.4  | 1.2    | 0.4                 | 0.6  | 0.2    | 18.1                | 29.5 | 8.8    | 1.2      | 1.5  | 0.8    | 0.4                    | 0.4  | 0.3    | 3.4                               | 5.1  | 1.9    |
| 55-64     | 1.2   | 2.2  | 0.3    | 0.3                 | 0.5  | 0.1    | 8.7                 | 17.6 | 2.0    | 1.2      | 2.4  | 0.0    | 0.0                    | 0.0  | 0.0    | 0.0                               | 0.0  | 0.0    |
| 65+       | 0.3   | 0.7  | 0.0    | 0.1                 | 0.2  | 0.0    | 2.7                 | 6.3  | 0.4    | 0.5      | 1.2  | 0.0    | 0.0                    | 0.0  | 0.0    | 0.0                               | 0.0  | 0.0    |
| TOTAL     | 3.2   | 3.6  | 2.8    | 0.5                 | 0.5  | 0.5    | 21.8                | 24.8 | 19.1   | 1.6      | 2.1  | 1.0    | 0.3                    | 0.3  | 0.4    | 2.1                               | 2.3  | 1.8    |
| 10-14     | 0.2   | 0.1  | 0.4    | 0.0                 | 0.0  | 0.1    | 1.2                 | 0.3  | 2.1    | 0.0      | 0.0  | 0.1    | 0.0                    | 0.0  | 0.0    | 0.0                               | 0.0  | 0.0    |
| 15-19     | 3.1   | 1.9  | 4.4    | 0.4                 | 0.2  | 0.7    | 17.5                | 11.2 | 24.1   | 1.6      | 1.2  | 2.0    | 0.4                    | 0.0  | 0.8    | 3.7                               | 3.2  | 4.3    |
| 20-24     | 5.8   | 5.7  | 6.0    | 0.9                 | 0.5  | 1.3    | 33.4                | 33.9 | 33.0   | 2.8      | 3.8  | 1.7    | 0.7                    | 0.9  | 0.6    | 7.1                               | 7.7  | 6.5    |
| 25-29     | 5.5   | 5.5  | 5.6    | 1.0                 | 0.8  | 1.3    | 31.4                | 32.3 | 30.6   | 3.9      | 5.0  | 2.8    | 0.6                    | 1.0  | 0.2    | 7.7                               | 6.3  | 9.1    |
| 30-34     | 5.8   | 6.3  | 5.4    | 1.0                 | 1.1  | 1.0    | 36.9                | 40.3 | 33.9   | 2.5      | 3.9  | 0.9    | 1.1                    | 1.8  | 0.4    | 6.2                               | 5.5  | 6.9    |
| 35-39     | 5.2   | 6.1  | 4.3    | 1.1                 | 1.3  | 0.8    | 33.9                | 40.9 | 27.7   | 2.6      | 3.6  | 1.5    | 0.8                    | 1.5  | 0.2    | 4.6                               | 5.3  | 3.9    |
| 40-44     | 3.8   | 4.9  | 2.7    | 0.8                 | 1.2  | 0.4    | 25.6                | 34.0 | 18.3   | 1.9      | 2.9  | 1.0    | 0.4                    | 0.5  | 0.2    | 3.5                               | 4.4  | 2.7    |
| 45-54     | 2.3   | 3.4  | 1.1    | 0.5                 | 0.8  | 0.2    | 17.0                | 27.2 | 8.7    | 1.6      | 2.6  | 0.7    | 0.1                    | 0.2  | 0.0    | 0.5                               | 0.0  | 0.9    |
| 55-64     | 1.0   | 1.8  | 0.3    | 0.3                 | 0.5  | 0.0    | 7.3                 | 13.6 | 2.6    | 1.0      | 1.9  | 0.2    | 0.3                    | 0.6  | 0.0    | 1.6                               | 3.3  | 0.0    |
| 65+       | 0.3   | 0.6  | 0.1    | 0.1                 | 0.1  | 0.0    | 2.6                 | 5.6  | 0.7    | 0.5      | 1.0  | 0.2    | 0.0                    | 0.0  | 0.0    | 0.7                               | 1.7  | 0.0    |
| TOTAL     | 2.6   | 3.0  | 2.2    | 0.5                 | 0.6  | 0.4    | 16.9                | 19.4 | 14.6   | 1.5      | 2.1  | 0.9    | 0.4                    | 0.5  | 0.2    | 2.8                               | 2.9  | 2.7    |
| 10-14     | 0.1   | 0.0  | 0.2    | 0.0                 | 0.0  | 0.0    | 0.7                 | 0.1  | 1.4    | 0.0      | 0.0  | 0.1    | 0.0                    | 0.0  | 0.0    | 0.0                               | 0.0  | 0.0    |
| 15-19     | 2.7   | 1.8  | 3.6    | 0.4                 | 0.2  | 0.5    | 14.6                | 9.4  | 19.8   | 1.6      | 1.7  | 1.4    | 0.1                    | 0.3  | 0.0    | 4.2                               | 2.1  | 6.4    |
| 20-24     | 5.4   | 5.6  | 5.1    | 1.0                 | 0.8  | 1.3    | 28.0                | 30.2 | 26.0   | 4.1      | 5.4  | 2.7    | 0.7                    | 0.9  | 0.6    | 6.5                               | 6.4  | 6.6    |
| 25-29     | 5.5   | 5.6  | 5.3    | 1.1                 | 1.1  | 1.2    | 29.9                | 30.9 | 29.1   | 3.6      | 5.1  | 2.1    | 0.9                    | 1.9  | 0.0    | 7.2                               | 2.5  | 12.0   |
| 30-34     | 5.5   | 6.1  | 5.0    | 1.2                 | 1.5  | 1.0    | 31.8                | 34.9 | 29.1   | 3.6      | 5.3  | 1.9    | 1.3                    | 1.5  | 1.2    | 4.3                               | 1.4  | 7.1    |
| 35-39     | 5.1   | 6.1  | 4.2    | 1.2                 | 1.4  | 1.0    | 32.2                | 39.0 | 26.1   | 2.7      | 4.2  | 1.0    | 0.5                    | 1.0  | 0.0    | 5.3                               | 4.0  | 6.7    |
| 40-44     | 3.6   | 4.9  | 2.4    | 0.9                 | 1.2  | 0.5    | 23.0                | 31.9 | 15.1   | 2.6      | 4.2  | 0.9    | 0.9                    | 0.8  | 1.0    | 1.4                               | 0.0  | 2.8    |
| 45-54     | 2.1   | 3.3  | 1.0    | 0.5                 | 0.7  | 0.3    | 14.9                | 25.3 | 6.3    | 1.4      | 2.5  | 0.4    | 0.4                    | 0.8  | 0.0    | 2.8                               | 3.8  | 1.8    |
| 55-64     | 1.0   | 1.7  | 0.3    | 0.3                 | 0.5  | 0.1    | 6.7                 | 13.3 | 1.7    | 1.3      | 2.1  | 0.6    | 0.2                    | 0.0  | 0.3    | 0.8                               | 1.6  | 0.0    |
| 65+       | 0.2   | 0.5  | 0.0    | 0.1                 | 0.2  | 0.0    | 1.7                 | 3.6  | 0.4    | 0.2      | 0.5  | 0.0    | 0.0                    | 0.0  | 0.0    | 0.0                               | 0.0  | 0.0    |
| TOTAL     | 2.4   | 2.9  | 2.0    | 0.5                 | 0.6  | 0.4    | 15.0                | 17.8 | 12.4   | 1.7      | 2.5  | 0.9    | 0.4                    | 0.6  | 0.3    | 2.7                               | 1.9  | 3.5    |
| 10-14     | 0.1   | 0.0  | 0.2    | 0.0                 | 0.0  | 0.0    | 0.6                 | 0.3  | 1.0    | 0.0      | 0.0  | 0.0    | 0.0                    | 0.0  | 0.0    | 0.5                               | 0.0  | 1.0    |
| 15-19     | 2.3   | 1.6  | 3.0    | 0.4                 | 0.2  | 0.6    | 12.4                | 8.7  | 16.2   | 1.3      | 1.3  | 1.3    | 0.1                    | 0.0  | 0.3    | 2.0                               | 1.0  | 3.1    |
| 20-24     | 4.6   | 4.3  | 5.0    | 0.9                 | 0.7  | 1.2    | 24.8                | 24.2 | 25.4   | 3.0      | 3.5  | 2.3    | 0.5                    | 0.2  | 0.7    | 8.0                               | 3.7  | 12.4   |
| 25-29     | 4.7   | 5.4  | 3.9    | 1.2                 | 1.5  | 0.9    | 24.8                | 27.9 | 21.9   | 3.2      | 4.5  | 1.7    | 0.8                    | 1.4  | 0.2    | 6.0                               | 9.3  | 2.6    |
| 30-34     | 4.7   | 5.4  | 4.0    | 1.3                 | 1.7  | 0.9    | 25.4                | 28.3 | 22.8   | 3.0      | 4.3  | 1.5    | 1.1                    | 1.9  | 0.4    | 3.3                               | 2.7  | 3.9    |
| 35-39     | 4.4   | 5.3  | 3.5    | 1.4                 | 1.8  | 0.9    | 23.5                | 28.1 | 19.4   | 4.0      | 5.5  | 2.3    | 0.5                    | 0.9  | 0.2    | 4.2                               | 3.7  | 4.6    |
| 40-44     | 3.5   | 4.5  | 2.5    | 1.1                 | 1.4  | 0.7    | 20.4                | 26.9 | 14.6   | 2.2      | 3.2  | 1.2    | 0.2                    | 0.5  | 0.0    | 3.1                               | 3.9  | 2.4    |
| 45-54     | 1.9   | 2.9  | 0.9    | 0.5                 | 0.8  | 0.2    | 12.5                | 19.9 | 6.2    | 1.4      | 2.1  | 0.7    | 0.3                    | 0.6  | 0.0    | 1.6                               | 3.3  | 0.0    |
| 55-64     | 0.7   | 1.3  | 0.2    | 0.2                 | 0.4  | 0.0    | 5.2                 | 10.0 | 1.4    | 0.6      | 1.3  | 0.1    | 0.0                    | 0.0  | 0.0    | 1.4                               | 1.4  | 1.3    |
| 65+       | 0.2   | 0.5  | 0.0    | 0.1                 | 0.2  | 0.0    | 1.8                 | 4.1  | 0.3    | 0.2      | 0.4  | 0.0    | 0.1                    | 0.3  | 0.0    | 0.8                               | 1.9  | 0.0    |
| TOTAL     | 2.1   | 2.6  | 1.7    | 0.5                 | 0.7  | 0.4    | 12.2                | 14.4 | 10.2   | 1.6      | 2.2  | 0.9    | 0.3                    | 0.5  | 0.1    | 2.4                               | 2.4  | 2.4    |
| 10-14     | 0.1   | 0.0  | 0.2    | 0.0                 | 0.0  | 0.0    | 0.5                 | 0.1  | 1.0    | 0.1      | 0.1  | 0.1    | 0.0                    | 0.0  | 0.0    | 0.0                               | 0.0  | 0.0    |
| 15-19     | 1.9   | 1.4  | 2.5    | 0.2                 | 0.2  | 0.3    | 9.9                 | 6.5  | 13.3   | 1.8      | 1.7  | 2.0    | 0.3                    | 0.3  | 0.3    | 2.1                               | 2.1  | 2.1    |
| 20-24     | 4.4   | 5.0  | 3.8    | 1.0                 | 1.2  | 0.7    | 21.4                | 23.1 | 19.7   | 4.1      | 5.6  | 2.2    | 0.7                    | 1.1  | 0.2    | 9.3                               | 4.9  | 13.9   |
| 25-29     | 4.5   | 5.9  | 3.1    | 1.2                 | 2.0  | 0.5    | 21.7                | 26.7 | 17.3   | 4.1      | 6.3  | 1.6    | 1.2                    | 2.4  | 0.0    | 11.4                              | 14.8 | 8.0    |
| 30-34     | 4.7   | 6.4  | 3.0    | 1.7                 | 2.8  | 0.6    | 21.5                | 26.6 | 16.9   | 4.4      | 7.0  | 1.4    | 1.1                    | 2.4  | 0.0    | 10.7                              | 12.2 | 9.2    |
| 35-39     | 5.0   | 7.2  | 2.9    | 2.1                 | 3.5  | 0.6    | 23.1                | 29.9 | 17.0   | 4.7      | 8.2  | 1.0    | 1.5                    | 3.0  | 0.2    | 7.3                               | 6.3  | 8.1    |
| 40-44     | 3.6   | 5.3  | 2.0    | 1.4                 | 2.4  | 0.4    | 18.7                | 26.4 | 11.9   | 2.6      | 4.0  | 1.0    | 0.2                    | 0.5  | 0.0    | 8.9                               | 12.0 | 6.1    |
| 45-54     | 2.1   | 3.4  | 0.9    | 0.8                 | 1.4  | 0.2    | 12.6                | 20.0 | 6.2    | 2.0      | 3.3  | 0.6    | 0.3                    | 0.5  | 0.1    | 2.4                               | 3.4  | 1.6    |
| 55-64     | 0.8   | 1.4  | 0.2    | 0.3                 | 0.5  | 0.0    | 5.1                 | 9.4  | 1.6    | 1.0      | 1.9  | 0.2    | 0.3                    | 0.5  | 0.0    | 1.4                               | 3.0  | 0.0    |
| 65+       | 0.2   | 0.4  | 0.0    | 0.1                 | 0.2  | 0.0    | 1.3                 | 2.8  | 0.3    | 0.2      | 0.6  | 0.0    | 0.0                    | 0.0  | 0.0    | 0.8                               | 1.8  | 0.0    |
| TOTAL     | 2.2   | 3.0  | 1.4    | 0.7                 | 1.2  | 0.2    | 11.0                | 13.8 | 8.4    | 2.1      | 3.3  | 0.9    | 0.5                    | 1.0  | 0.1    | 4.2                               | 4.7  | 3.8    |

NOTE: These tables should be used only for race/ethnicity comparisons, not for age, sex or overall totals. This is because, if age or race/ethnicity was not specified, cases were prorated according to the distribution of cases for which these variables were specified. For the following years, the states listed did not report age and/or race/ethnicity for most cases and were excluded: 1997 (ID, NJ, NY); 1998 (ID, NJ); 1999 (NH). Cases and population denominators have been excluded for these states/areas. Differences between total cases from this table and others in the report are due to different reporting forms and above exclusions. The 0 to 9 year age group is not shown because some of these may not be due to sexual transmission; however, they are included in the totals.

**Table 36. Early latent syphilis — Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001**

| State/Area              | Cases  |        |        |        |       | Rates per 100,000 Population |      |      |      |      |
|-------------------------|--------|--------|--------|--------|-------|------------------------------|------|------|------|------|
|                         | 1997   | 1998   | 1999   | 2000   | 2001  | 1997                         | 1998 | 1999 | 2000 | 2001 |
| Alabama                 | 623    | 440    | 367    | 219    | 192   | 14.4                         | 10.1 | 8.4  | 4.9  | 4.3  |
| Alaska                  | 0      | 0      | 1      | 1      | 0     | 0.0                          | 0.0  | 0.2  | 0.2  | 0.0  |
| Arizona                 | 201    | 206    | 290    | 248    | 266   | 4.4                          | 4.4  | 6.1  | 4.8  | 5.2  |
| Arkansas                | 237    | 185    | 123    | 117    | 60    | 9.4                          | 7.3  | 4.8  | 4.4  | 2.2  |
| California              | 961    | 783    | 591    | 353    | 408   | 3.0                          | 2.4  | 1.8  | 1.0  | 1.2  |
| Colorado                | 13     | 10     | 6      | 7      | 14    | 0.3                          | 0.3  | 0.1  | 0.2  | 0.3  |
| Connecticut             | 86     | 37     | 12     | 9      | 20    | 2.6                          | 1.1  | 0.4  | 0.3  | 0.6  |
| Delaware                | 37     | 44     | 16     | 10     | 18    | 5.1                          | 5.9  | 2.1  | 1.3  | 2.3  |
| Florida                 | 1,179  | 1,092  | 1,085  | 1,165  | 947   | 8.0                          | 7.3  | 7.2  | 7.3  | 5.9  |
| Georgia                 | 1,085  | 740    | 729    | 521    | 703   | 14.5                         | 9.7  | 9.4  | 6.4  | 8.6  |
| Hawaii                  | 0      | 0      | 1      | 3      | 7     | 0.0                          | 0.0  | 0.1  | 0.2  | 0.6  |
| Idaho                   | 5      | 0      | 1      | 0      | 0     | 0.4                          | 0.0  | 0.1  | 0.0  | 0.0  |
| Illinois                | 1,032  | 596    | 639    | 382    | 386   | 8.7                          | 4.9  | 5.3  | 3.1  | 3.1  |
| Indiana                 | 169    | 121    | 172    | 184    | 120   | 2.9                          | 2.1  | 2.9  | 3.0  | 2.0  |
| Iowa                    | 27     | 20     | 4      | 8      | 6     | 0.9                          | 0.7  | 0.1  | 0.3  | 0.2  |
| Kansas                  | 58     | 39     | 19     | 9      | 18    | 2.2                          | 1.5  | 0.7  | 0.3  | 0.7  |
| Kentucky                | 122    | 101    | 81     | 62     | 38    | 3.1                          | 2.6  | 2.0  | 1.5  | 0.9  |
| Louisiana               | 550    | 446    | 404    | 231    | 194   | 12.6                         | 10.2 | 9.2  | 5.2  | 4.3  |
| Maine                   | 2      | 0      | 0      | 0      | 3     | 0.2                          | 0.0  | 0.0  | 0.0  | 0.2  |
| Maryland                | 1,218  | 848    | 610    | 518    | 362   | 23.9                         | 16.5 | 11.8 | 9.8  | 6.8  |
| Massachusetts           | 127    | 104    | 65     | 83     | 64    | 2.1                          | 1.7  | 1.1  | 1.3  | 1.0  |
| Michigan                | 354    | 261    | 302    | 406    | 368   | 3.6                          | 2.7  | 3.1  | 4.1  | 3.7  |
| Minnesota               | 21     | 8      | 9      | 18     | 16    | 0.4                          | 0.2  | 0.2  | 0.4  | 0.3  |
| Mississippi             | 962    | 650    | 553    | 409    | 329   | 35.2                         | 23.6 | 20.0 | 14.4 | 11.6 |
| Missouri                | 202    | 165    | 99     | 52     | 33    | 3.7                          | 3.0  | 1.8  | 0.9  | 0.6  |
| Montana                 | 4      | 0      | 2      | 0      | 0     | 0.5                          | 0.0  | 0.2  | 0.0  | 0.0  |
| Nebraska                | 5      | 3      | 6      | 1      | 1     | 0.3                          | 0.2  | 0.4  | 0.1  | 0.1  |
| Nevada                  | 24     | 38     | 28     | 9      | 7     | 1.4                          | 2.2  | 1.5  | 0.5  | 0.4  |
| New Hampshire           | 0      | 1      | 1      | 0      | 2     | 0.0                          | 0.1  | 0.1  | 0.0  | 0.2  |
| New Jersey              | 236    | 231    | 99     | 109    | 234   | 2.9                          | 2.8  | 1.2  | 1.3  | 2.8  |
| New Mexico              | 8      | 8      | 2      | 25     | 18    | 0.5                          | 0.5  | 0.1  | 1.4  | 1.0  |
| New York                | 763    | 679    | 700    | 467    | 566   | 4.2                          | 3.7  | 3.8  | 2.5  | 3.0  |
| North Carolina          | 879    | 846    | 740    | 618    | 483   | 11.8                         | 11.2 | 9.7  | 7.7  | 6.0  |
| North Dakota            | 0      | 0      | 0      | 1      | 0     | 0.0                          | 0.0  | 0.0  | 0.2  | 0.0  |
| Ohio                    | 331    | 227    | 168    | 119    | 100   | 3.0                          | 2.0  | 1.5  | 1.0  | 0.9  |
| Oklahoma                | 179    | 158    | 249    | 128    | 121   | 5.4                          | 4.7  | 7.4  | 3.7  | 3.5  |
| Oregon                  | 14     | 7      | 6      | 19     | 9     | 0.4                          | 0.2  | 0.2  | 0.6  | 0.3  |
| Pennsylvania            | 668    | 424    | 414    | 278    | 260   | 5.6                          | 3.5  | 3.5  | 2.3  | 2.1  |
| Rhode Island            | 7      | 0      | 1      | 1      | 1     | 0.7                          | 0.0  | 0.1  | 0.1  | 0.1  |
| South Carolina          | 481    | 383    | 407    | 394    | 394   | 12.8                         | 10.0 | 10.5 | 9.8  | 9.8  |
| South Dakota            | 2      | 0      | 1      | 0      | 0     | 0.3                          | 0.0  | 0.1  | 0.0  | 0.0  |
| Tennessee               | 984    | 659    | 647    | 627    | 553   | 18.3                         | 12.1 | 11.8 | 11.0 | 9.7  |
| Texas                   | 1,863  | 1,480  | 1,273  | 1,171  | 964   | 9.6                          | 7.5  | 6.4  | 5.6  | 4.6  |
| Utah                    | 2      | 3      | 5      | 10     | 0     | 0.1                          | 0.1  | 0.2  | 0.4  | 0.0  |
| Vermont                 | 0      | 2      | 0      | 0      | 1     | 0.0                          | 0.3  | 0.0  | 0.0  | 0.2  |
| Virginia                | 379    | 230    | 212    | 140    | 133   | 5.6                          | 3.4  | 3.1  | 2.0  | 1.9  |
| Washington              | 13     | 16     | 17     | 20     | 19    | 0.2                          | 0.3  | 0.3  | 0.3  | 0.3  |
| West Virginia           | 1      | 2      | 3      | 3      | 1     | 0.1                          | 0.1  | 0.2  | 0.2  | 0.1  |
| Wisconsin               | 169    | 115    | 90     | 72     | 43    | 3.3                          | 2.2  | 1.7  | 1.3  | 0.8  |
| Wyoming                 | 0      | 0      | 0      | 0      | 0     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| U.S. TOTAL <sup>1</sup> | 16,631 | 12,696 | 11,534 | 9,465  | 8,701 | 6.2                          | 4.7  | 4.2  | 3.4  | 3.1  |
| Northeast               | 1,889  | 1,478  | 1,292  | 947    | 1,151 | 3.7                          | 2.9  | 2.5  | 1.8  | 2.1  |
| Midwest                 | 2,370  | 1,555  | 1,509  | 1,252  | 1,091 | 3.8                          | 2.5  | 2.4  | 1.9  | 1.7  |
| South                   | 11,127 | 8,592  | 7,783  | 6,571  | 5,711 | 11.8                         | 9.0  | 8.1  | 6.6  | 5.7  |
| West                    | 1,245  | 1,071  | 950    | 695    | 748   | 2.1                          | 1.8  | 1.6  | 1.1  | 1.2  |
| Guam                    | 0      | 0      | 0      | 1      | 2     | 0.0                          | 0.0  | 0.0  | 0.6  | 1.3  |
| Puerto Rico             | 679    | 659    | 680    | 663    | 600   | 17.7                         | 17.1 | 17.5 | 17.4 | 15.8 |
| Virgin Islands          | 8      | 28     | 12     | 5      | 8     | 7.3                          | 25.5 | 10.6 | 4.6  | 7.4  |
| OUTLYING AREAS          | 687    | 687    | 692    | 669    | 610   | 16.8                         | 16.6 | 16.6 | 16.4 | 15.0 |
| TOTAL                   | 17,318 | 13,383 | 12,226 | 10,134 | 9,311 | 6.4                          | 4.9  | 4.4  | 3.5  | 3.3  |

<sup>1</sup>Includes cases reported by Washington, D.C.

**Table 37. Early latent syphilis — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001**

| City               | Cases |       |       |       |       | Rates per 100,000 Population |       |      |      |      |
|--------------------|-------|-------|-------|-------|-------|------------------------------|-------|------|------|------|
|                    | 1997  | 1998  | 1999  | 2000  | 2001  | 1997                         | 1998  | 1999 | 2000 | 2001 |
| Akron, OH          | 0     | 4     | 6     | 1     | 2     | 0.0                          | 0.7   | 1.1  | 0.2  | 0.4  |
| Albuquerque, NM    | 6     | 5     | 2     | 19    | 8     | 1.1                          | 1.0   | 0.4  | 3.4  | 1.4  |
| Atlanta, GA        | 367   | 303   | 241   | 173   | 398   | 50.8                         | 41.0  | 32.4 | 21.2 | 48.8 |
| Austin, TX         | 33    | 19    | 23    | 27    | 31    | 4.8                          | 2.7   | 3.2  | 3.3  | 3.8  |
| Baltimore, MD      | 975   | 646   | 472   | 384   | 257   | 148.3                        | 100.1 | 74.6 | 59.0 | 39.5 |
| Birmingham, AL     | 225   | 95    | 103   | 62    | 35    | 34.2                         | 14.4  | 15.7 | 9.4  | 5.3  |
| Boston, MA         | 62    | 60    | 41    | 29    | 26    | 11.1                         | 10.8  | 7.4  | 4.8  | 4.3  |
| Buffalo, NY        | 5     | 2     | 1     | 1     | 0     | 1.6                          | 0.6   | 0.3  | 0.3  | 0.0  |
| Charlotte, NC      | 86    | 97    | 99    | 63    | 69    | 14.0                         | 15.4  | 15.3 | 9.1  | 9.9  |
| Chicago, IL        | 918   | 518   | 521   | 292   | 298   | 31.5                         | 17.4  | 17.5 | 9.5  | 9.7  |
| Cincinnati, OH     | 26    | 11    | 5     | 2     | 2     | 3.1                          | 1.3   | 0.6  | 0.2  | 0.2  |
| Cleveland, OH      | 164   | 98    | 63    | 29    | 31    | 11.8                         | 7.1   | 4.6  | 2.1  | 2.2  |
| Columbus, OH       | 34    | 42    | 34    | 32    | 33    | 3.3                          | 4.1   | 3.3  | 3.0  | 3.1  |
| Corpus Christi, TX | 6     | 13    | 9     | 3     | 1     | 1.9                          | 4.1   | 2.9  | 1.0  | 0.3  |
| Dallas, TX         | 306   | 405   | 384   | 361   | 247   | 15.1                         | 19.7  | 18.6 | 16.3 | 11.1 |
| Dayton, OH         | 28    | 5     | 5     | 2     | 4     | 5.0                          | 0.9   | 0.9  | 0.4  | 0.7  |
| Denver, CO         | 7     | 7     | 4     | 1     | 4     | 1.4                          | 1.4   | 0.8  | 0.2  | 0.7  |
| Des Moines, IA     | 19    | 11    | 2     | 6     | 4     | 5.4                          | 3.1   | 0.5  | 1.6  | 1.1  |
| Detroit, MI        | 254   | 180   | 223   | 328   | 293   | 23.3                         | 14.3  | 17.8 | 26.7 | 23.9 |
| El Paso, TX        | 34    | 14    | 9     | 11    | 14    | 4.8                          | 2.0   | 1.3  | 1.6  | 2.1  |
| Fort Worth, TX     | 192   | 121   | 66    | 80    | 60    | 14.5                         | 8.9   | 4.8  | 5.5  | 4.1  |
| Honolulu, HI       | 0     | 0     | 1     | 1     | 4     | 0.0                          | 0.0   | 0.1  | 0.1  | 0.5  |
| Houston, TX        | 528   | 367   | 248   | 134   | 137   | 16.7                         | 11.4  | 7.6  | 3.9  | 4.0  |
| Indianapolis, IN   | 33    | 44    | 102   | 125   | 82    | 4.1                          | 5.4   | 12.6 | 14.5 | 9.5  |
| Jacksonville, FL   | 81    | 69    | 37    | 46    | 54    | 11.1                         | 9.4   | 5.0  | 5.9  | 6.9  |
| Jersey City, NJ    | 10    | 2     | 1     | 1     | 6     | 4.6                          | 0.9   | 0.5  | 0.4  | 2.5  |
| Kansas City, MO    | 6     | 6     | 16    | 4     | 1     | 1.3                          | 1.3   | 3.5  | 0.9  | 0.2  |
| Los Angeles, CA    | 649   | 525   | 330   | 187   | 203   | 7.6                          | 6.1   | 3.8  | 2.1  | 2.3  |
| Louisville, KY     | 66    | 64    | 38    | 40    | 20    | 9.8                          | 9.5   | 5.6  | 5.8  | 2.9  |
| Memphis, TN        | 591   | 382   | 338   | 325   | 356   | 68.2                         | 44.0  | 38.7 | 36.2 | 39.7 |
| Miami, FL          | 427   | 242   | 294   | 329   | 221   | 20.9                         | 11.2  | 13.5 | 14.6 | 9.8  |
| Milwaukee, WI      | 140   | 94    | 84    | 55    | 35    | 15.4                         | 10.3  | 9.3  | 5.9  | 3.7  |
| Minneapolis, MN    | 14    | 5     | 7     | 11    | 8     | 3.7                          | 1.4   | 1.9  | 2.9  | 2.1  |
| Nashville, TN      | 173   | 148   | 201   | 173   | 137   | 32.4                         | 27.7  | 37.9 | 30.4 | 24.0 |
| New Orleans, LA    | 119   | 84    | 65    | 32    | 31    | 25.4                         | 18.0  | 14.1 | 6.6  | 6.4  |
| New York City, NY  | 670   | 645   | 659   | 447   | 548   | 9.1                          | 8.7   | 8.9  | 5.6  | 6.8  |
| Newark, NJ         | 30    | 56    | 23    | 58    | 74    | 10.5                         | 19.7  | 8.1  | 19.3 | 24.6 |
| Norfolk, VA        | 87    | 50    | 34    | 23    | 25    | 37.9                         | 23.2  | 15.1 | 9.8  | 10.7 |
| Oakland, CA        | 33    | 25    | 22    | 4     | 12    | 2.6                          | 2.0   | 1.7  | 0.3  | 0.9  |
| Oklahoma City, OK  | 50    | 70    | 147   | 86    | 73    | 11.3                         | 17.2  | 35.9 | 20.2 | 17.2 |
| Omaha, NE          | 2     | 3     | 2     | 1     | 0     | 0.5                          | 0.7   | 0.4  | 0.2  | 0.0  |
| Philadelphia, PA   | 648   | 407   | 394   | 261   | 248   | 44.6                         | 28.3  | 27.8 | 17.2 | 16.3 |
| Phoenix, AZ        | 189   | 193   | 266   | 220   | 243   | 7.0                          | 6.9   | 9.3  | 7.2  | 7.9  |
| Pittsburgh, PA     | 2     | 1     | 1     | 1     | 4     | 0.2                          | 0.1   | 0.1  | 0.1  | 0.3  |
| Portland, OR       | 8     | 5     | 5     | 12    | 7     | 1.6                          | 1.0   | 1.0  | 2.3  | 1.3  |
| Richmond, VA       | 58    | 36    | 34    | 18    | 28    | 30.1                         | 18.5  | 17.9 | 9.1  | 14.2 |
| Rochester, NY      | 9     | 9     | 2     | 0     | 1     | 3.7                          | 3.7   | 0.8  | 0.0  | 0.4  |
| Sacramento, CA     | 10    | 12    | 3     | 2     | 5     | 0.9                          | 1.0   | 0.3  | 0.2  | 0.4  |
| San Antonio, TX    | 96    | 63    | 72    | 102   | 120   | 7.2                          | 4.7   | 5.2  | 7.3  | 8.6  |
| San Diego, CA      | 17    | 21    | 23    | 10    | 16    | 0.6                          | 0.8   | 0.8  | 0.4  | 0.6  |
| San Francisco, CA  | 16    | 15    | 14    | 18    | 47    | 2.2                          | 2.0   | 1.9  | 2.3  | 6.1  |
| San Jose, CA       | 4     | 5     | 11    | 4     | 12    | 0.2                          | 0.3   | 0.7  | 0.2  | 0.7  |
| Seattle, WA        | 5     | 8     | 6     | 16    | 14    | 0.3                          | 0.5   | 0.4  | 0.9  | 0.8  |
| St Louis, MO       | 83    | 63    | 40    | 21    | 15    | 24.3                         | 18.6  | 12.0 | 6.0  | 4.3  |
| St Paul, MN        | 1     | 1     | 1     | 1     | 4     | 0.4                          | 0.4   | 0.4  | 0.4  | 1.4  |
| St Petersburg, FL  | 28    | 19    | 15    | 23    | 6     | 3.2                          | 2.2   | 1.7  | 2.5  | 0.7  |
| Tampa, FL          | 83    | 76    | 51    | 56    | 51    | 9.1                          | 8.2   | 5.4  | 5.6  | 5.1  |
| Toledo, OH         | 6     | 5     | 5     | 3     | 1     | 1.3                          | 1.1   | 1.1  | 0.7  | 0.2  |
| Tucson, AZ         | 6     | 6     | 14    | 14    | 8     | 0.8                          | 0.8   | 1.7  | 1.7  | 0.9  |
| Tulsa, OK          | 16    | 44    | 40    | 8     | 5     | 4.1                          | 11.6  | 10.4 | 2.0  | 1.3  |
| Washington, DC     | 348   | 288   | 284   | 238   | 219   | 65.8                         | 55.1  | 54.7 | 41.6 | 38.3 |
| Wichita, KS        | 45    | 13    | 11    | 1     | 7     | 10.3                         | 2.9   | 2.4  | 0.2  | 1.5  |
| Yonkers, NY        | 5     | 2     | 2     | 0     | 0     | 2.6                          | 1.0   | 1.0  | 0.0  | 0.0  |
| U.S. CITY TOTAL    | 9,139 | 6,829 | 6,256 | 5,017 | 4,905 | 13.1                         | 9.7   | 8.8  | 6.8  | 6.6  |
| San Juan, PR       | 305   | 300   | 296   | 250   | 232   | 35.0                         | 28.7  | 28.1 | 24.5 | 22.7 |
| TOTAL              | 9,444 | 7,129 | 6,552 | 5,267 | 5,137 | 13.4                         | 10.0  | 9.1  | 7.0  | 6.9  |

**Table 38. Late and late latent syphilis — Reported cases and rates by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001**

| State/Area              | Cases  |        |        |        |        | Rates per 100,000 Population |      |      |      |      |
|-------------------------|--------|--------|--------|--------|--------|------------------------------|------|------|------|------|
|                         | 1997   | 1998   | 1999   | 2000   | 2001   | 1997                         | 1998 | 1999 | 2000 | 2001 |
| Alabama                 | 422    | 413    | 443    | 403    | 380    | 9.8                          | 9.5  | 10.1 | 9.1  | 8.5  |
| Alaska                  | 11     | 12     | 11     | 5      | 9      | 1.8                          | 2.0  | 1.8  | 0.8  | 1.4  |
| Arizona                 | 255    | 281    | 307    | 385    | 672    | 5.6                          | 6.0  | 6.4  | 7.5  | 13.1 |
| Arkansas                | 121    | 183    | 140    | 130    | 124    | 4.8                          | 7.2  | 5.5  | 4.9  | 4.6  |
| California              | 2,319  | 1,637  | 1,897  | 2,590  | 2,038  | 7.2                          | 5.0  | 5.7  | 7.6  | 6.0  |
| Colorado                | 125    | 100    | 76     | 45     | 111    | 3.2                          | 2.5  | 1.9  | 1.0  | 2.6  |
| Connecticut             | 175    | 114    | 97     | 125    | 131    | 5.4                          | 3.5  | 3.0  | 3.7  | 3.8  |
| Delaware                | 52     | 49     | 46     | 26     | 47     | 7.1                          | 6.6  | 6.1  | 3.3  | 6.0  |
| Florida                 | 1,198  | 1,082  | 1,231  | 1,150  | 1,446  | 8.2                          | 7.3  | 8.1  | 7.2  | 9.0  |
| Georgia                 | 1,218  | 749    | 799    | 695    | 850    | 16.3                         | 9.8  | 10.3 | 8.5  | 10.4 |
| Hawaii                  | 46     | 14     | 7      | 17     | 22     | 3.9                          | 1.2  | 0.6  | 1.4  | 1.8  |
| Idaho                   | 18     | 13     | 11     | 10     | 10     | 1.5                          | 1.1  | 0.9  | 0.8  | 0.8  |
| Illinois                | 414    | 883    | 851    | 794    | 706    | 3.5                          | 7.3  | 7.0  | 6.4  | 5.7  |
| Indiana                 | 199    | 173    | 173    | 212    | 245    | 3.4                          | 2.9  | 2.9  | 3.5  | 4.0  |
| Iowa                    | 38     | 23     | 24     | 36     | 33     | 1.3                          | 0.8  | 0.8  | 1.2  | 1.1  |
| Kansas                  | 77     | 63     | 62     | 50     | 43     | 3.0                          | 2.4  | 2.3  | 1.9  | 1.6  |
| Kentucky                | 141    | 127    | 120    | 103    | 104    | 3.6                          | 3.2  | 3.0  | 2.5  | 2.6  |
| Louisiana               | 872    | 767    | 701    | 526    | 426    | 20.0                         | 17.6 | 16.0 | 11.8 | 9.5  |
| Maine                   | 9      | 3      | 1      | 6      | 12     | 0.7                          | 0.2  | 0.1  | 0.5  | 0.9  |
| Maryland                | 288    | 616    | 405    | 338    | 305    | 5.7                          | 12.0 | 7.8  | 6.4  | 5.8  |
| Massachusetts           | 524    | 416    | 283    | 296    | 334    | 8.6                          | 6.8  | 4.6  | 4.7  | 5.3  |
| Michigan                | 258    | 202    | 207    | 232    | 347    | 2.6                          | 2.1  | 2.1  | 2.3  | 3.5  |
| Minnesota               | 87     | 58     | 52     | 43     | 83     | 1.9                          | 1.2  | 1.1  | 0.9  | 1.7  |
| Mississippi             | 48     | 235    | 147    | 125    | 175    | 1.8                          | 8.5  | 5.3  | 4.4  | 6.2  |
| Missouri                | 173    | 90     | 191    | 215    | 110    | 3.2                          | 1.7  | 3.5  | 3.8  | 2.0  |
| Montana                 | 1      | 0      | 0      | 0      | 0      | 0.1                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Nebraska                | 26     | 24     | 12     | 4      | 5      | 1.6                          | 1.4  | 0.7  | 0.2  | 0.3  |
| Nevada                  | 85     | 86     | 59     | 38     | 47     | 5.1                          | 4.9  | 3.3  | 1.9  | 2.4  |
| New Hampshire           | 26     | 11     | 14     | 17     | 17     | 2.2                          | 0.9  | 1.2  | 1.4  | 1.4  |
| New Jersey              | 696    | 411    | 587    | 599    | 637    | 8.6                          | 5.1  | 7.2  | 7.1  | 7.6  |
| New Mexico              | 86     | 54     | 66     | 57     | 36     | 5.0                          | 3.1  | 3.8  | 3.1  | 2.0  |
| New York                | 4,639  | 4,291  | 3,201  | 2,308  | 2,701  | 25.6                         | 23.6 | 17.6 | 12.2 | 14.2 |
| North Carolina          | 584    | 540    | 490    | 375    | 475    | 7.9                          | 7.2  | 6.4  | 4.7  | 5.9  |
| North Dakota            | 0      | 0      | 0      | 0      | 2      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.3  |
| Ohio                    | 202    | 109    | 98     | 89     | 115    | 1.8                          | 1.0  | 0.9  | 0.8  | 1.0  |
| Oklahoma                | 105    | 97     | 94     | 82     | 102    | 3.2                          | 2.9  | 2.8  | 2.4  | 3.0  |
| Oregon                  | 23     | 19     | 23     | 18     | 26     | 0.7                          | 0.6  | 0.7  | 0.5  | 0.8  |
| Pennsylvania            | 354    | 367    | 427    | 321    | 362    | 2.9                          | 3.1  | 3.6  | 2.6  | 2.9  |
| Rhode Island            | 75     | 54     | 51     | 33     | 29     | 7.6                          | 5.5  | 5.1  | 3.1  | 2.8  |
| South Carolina          | 261    | 198    | 230    | 206    | 268    | 6.9                          | 5.2  | 5.9  | 5.1  | 6.7  |
| South Dakota            | 5      | 1      | 1      | 1      | 0      | 0.7                          | 0.1  | 0.1  | 0.1  | 0.0  |
| Tennessee               | 605    | 515    | 439    | 525    | 580    | 11.3                         | 9.5  | 8.0  | 9.2  | 10.2 |
| Texas                   | 2,694  | 1,930  | 1,885  | 1,659  | 2,145  | 13.9                         | 9.8  | 9.4  | 8.0  | 10.3 |
| Utah                    | 50     | 50     | 42     | 46     | 14     | 2.4                          | 2.4  | 2.0  | 2.1  | 0.6  |
| Vermont                 | 1      | 0      | 0      | 0      | 4      | 0.2                          | 0.0  | 0.0  | 0.0  | 0.7  |
| Virginia                | 495    | 334    | 354    | 266    | 287    | 7.4                          | 4.9  | 5.2  | 3.8  | 4.1  |
| Washington              | 107    | 82     | 110    | 85     | 98     | 1.9                          | 1.4  | 1.9  | 1.4  | 1.7  |
| West Virginia           | 17     | 6      | 7      | 7      | 1      | 0.9                          | 0.3  | 0.4  | 0.4  | 0.1  |
| Wisconsin               | 50     | 58     | 52     | 60     | 64     | 1.0                          | 1.1  | 1.0  | 1.1  | 1.2  |
| Wyoming                 | 4      | 1      | 0      | 4      | 3      | 0.8                          | 0.2  | 0.0  | 0.8  | 0.6  |
| U.S. TOTAL <sup>1</sup> | 20,447 | 17,743 | 16,653 | 15,594 | 16,976 | 7.6                          | 6.6  | 6.1  | 5.5  | 6.0  |
| Northeast               | 6,499  | 5,667  | 4,661  | 3,705  | 4,227  | 12.6                         | 11.0 | 9.0  | 6.9  | 7.9  |
| Midwest                 | 1,529  | 1,684  | 1,723  | 1,736  | 1,753  | 2.4                          | 2.7  | 2.7  | 2.7  | 2.7  |
| South                   | 9,289  | 8,043  | 7,660  | 6,853  | 7,910  | 9.9                          | 8.4  | 7.9  | 6.8  | 7.9  |
| West                    | 3,130  | 2,349  | 2,609  | 3,300  | 3,086  | 5.3                          | 3.9  | 4.3  | 5.2  | 4.9  |
| Guam                    | 1      | 3      | 10     | 7      | 15     | 0.6                          | 1.9  | 6.1  | 4.5  | 9.7  |
| Puerto Rico             | 640    | 597    | 614    | 485    | 402    | 16.7                         | 15.5 | 15.8 | 12.7 | 10.6 |
| Virgin Islands          | 0      | 0      | 0      | 3      | 0      | 0.0                          | 0.0  | 0.0  | 2.8  | 0.0  |
| OUTLYING AREAS          | 641    | 600    | 624    | 495    | 417    | 15.7                         | 14.5 | 15.0 | 12.2 | 10.2 |
| TOTAL                   | 21,088 | 18,343 | 17,277 | 16,089 | 17,393 | 7.8                          | 6.7  | 6.2  | 5.6  | 6.1  |

<sup>1</sup>Includes cases reported by Washington, D.C.

**Table 39. Late and late latent syphilis — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001**

| City               | Cases  |        |       |       |       | Rates per 100,000 Population |      |      |      |      |
|--------------------|--------|--------|-------|-------|-------|------------------------------|------|------|------|------|
|                    | 1997   | 1998   | 1999  | 2000  | 2001  | 1997                         | 1998 | 1999 | 2000 | 2001 |
| Akron, OH          | 0      | 0      | 0     | 1     | 1     | 0.0                          | 0.0  | 0.0  | 0.2  | 0.2  |
| Albuquerque, NM    | 41     | 29     | 37    | 33    | 26    | 7.8                          | 5.5  | 7.1  | 5.9  | 4.7  |
| Atlanta, GA        | 289    | 120    | 119   | 88    | 168   | 40.0                         | 16.2 | 16.0 | 10.8 | 20.6 |
| Austin, TX         | 57     | 22     | 20    | 24    | 64    | 8.2                          | 3.1  | 2.8  | 3.0  | 7.9  |
| Baltimore, MD      | 81     | 331    | 202   | 111   | 57    | 12.3                         | 51.3 | 31.9 | 17.0 | 8.8  |
| Birmingham, AL     | 136    | 110    | 149   | 124   | 101   | 20.6                         | 16.7 | 22.7 | 18.7 | 15.3 |
| Boston, MA         | 191    | 155    | 107   | 106   | 113   | 34.3                         | 27.9 | 19.2 | 17.7 | 18.9 |
| Buffalo, NY        | 13     | 6      | 4     | 8     | 7     | 4.1                          | 1.9  | 1.3  | 2.5  | 2.2  |
| Charlotte, NC      | 19     | 44     | 39    | 40    | 31    | 3.1                          | 7.0  | 6.0  | 5.8  | 4.5  |
| Chicago, IL        | 0      | 494    | 475   | 468   | 444   | 0.0                          | 16.6 | 15.9 | 15.2 | 14.4 |
| Cincinnati, OH     | 33     | 9      | 6     | 12    | 12    | 3.9                          | 1.1  | 0.7  | 1.4  | 1.4  |
| Cleveland, OH      | 19     | 20     | 11    | 7     | 5     | 1.4                          | 1.4  | 0.8  | 0.5  | 0.4  |
| Columbus, OH       | 28     | 17     | 30    | 18    | 52    | 2.8                          | 1.7  | 2.9  | 1.7  | 4.9  |
| Corpus Christi, TX | 14     | 13     | 10    | 6     | 8     | 4.4                          | 4.1  | 3.2  | 1.9  | 2.6  |
| Dallas, TX         | 260    | 187    | 156   | 120   | 326   | 12.9                         | 9.1  | 7.6  | 5.4  | 14.7 |
| Dayton, OH         | 70     | 28     | 9     | 10    | 12    | 12.5                         | 5.0  | 1.6  | 1.8  | 2.1  |
| Denver, CO         | 57     | 24     | 37    | 18    | 45    | 11.4                         | 4.8  | 7.4  | 3.2  | 8.1  |
| Des Moines, IA     | 7      | 6      | 5     | 11    | 10    | 2.0                          | 1.7  | 1.4  | 2.9  | 2.7  |
| Detroit, MI        | 175    | 131    | 136   | 145   | 257   | 16.1                         | 10.4 | 10.9 | 11.8 | 21.0 |
| El Paso, TX        | 73     | 65     | 60    | 73    | 78    | 10.4                         | 9.2  | 8.5  | 10.7 | 11.5 |
| Fort Worth, TX     | 62     | 27     | 87    | 85    | 159   | 4.7                          | 2.0  | 6.3  | 5.9  | 11.0 |
| Honolulu, HI       | 41     | 14     | 4     | 13    | 16    | 4.7                          | 1.6  | 0.5  | 1.5  | 1.8  |
| Houston, TX        | 1,128  | 879    | 755   | 614   | 661   | 35.7                         | 27.4 | 23.2 | 18.1 | 19.4 |
| Indianapolis, IN   | 21     | 30     | 38    | 92    | 87    | 2.6                          | 3.7  | 4.7  | 10.7 | 10.1 |
| Jacksonville, FL   | 89     | 69     | 30    | 53    | 47    | 12.1                         | 9.4  | 4.1  | 6.8  | 6.0  |
| Jersey City, NJ    | 62     | 28     | 38    | 22    | 26    | 28.5                         | 12.7 | 17.4 | 9.1  | 10.8 |
| Kansas City, MO    | 4      | 2      | 41    | 39    | 24    | 0.9                          | 0.4  | 9.1  | 8.6  | 5.3  |
| Los Angeles, CA    | 806    | 557    | 740   | 1,496 | 923   | 9.4                          | 6.5  | 8.5  | 16.8 | 10.4 |
| Louisville, KY     | 56     | 54     | 69    | 51    | 61    | 8.4                          | 8.0  | 10.3 | 7.4  | 8.8  |
| Memphis, TN        | 473    | 383    | 321   | 297   | 324   | 54.6                         | 44.1 | 36.8 | 33.1 | 36.1 |
| Miami, FL          | 367    | 463    | 409   | 356   | 628   | 17.9                         | 21.5 | 18.8 | 15.8 | 27.9 |
| Milwaukee, WI      | 42     | 62     | 36    | 49    | 43    | 4.6                          | 6.8  | 4.0  | 5.2  | 4.6  |
| Minneapolis, MN    | 27     | 25     | 15    | 14    | 32    | 7.0                          | 6.9  | 4.1  | 3.6  | 8.3  |
| Nashville, TN      | 36     | 58     | 54    | 145   | 162   | 6.7                          | 10.9 | 10.2 | 25.4 | 28.4 |
| New Orleans, LA    | 208    | 157    | 108   | 70    | 46    | 44.3                         | 33.7 | 23.4 | 14.4 | 9.5  |
| New York City, NY  | 4,110  | 3,881  | 2,907 | 2,115 | 2,442 | 56.0                         | 52.3 | 39.1 | 26.4 | 30.5 |
| Newark, NJ         | 159    | 82     | 115   | 170   | 237   | 55.9                         | 28.8 | 40.6 | 56.5 | 78.8 |
| Norfolk, VA        | 26     | 25     | 30    | 22    | 22    | 11.3                         | 11.6 | 13.3 | 9.4  | 9.4  |
| Oakland, CA        | 86     | 91     | 92    | 75    | 71    | 6.9                          | 7.1  | 7.1  | 5.7  | 5.4  |
| Oklahoma City, OK  | 16     | 39     | 34    | 25    | 50    | 3.6                          | 9.6  | 8.3  | 5.9  | 11.8 |
| Omaha, NE          | 14     | 19     | 3     | 3     | 0     | 3.2                          | 4.3  | 0.7  | 0.6  | 0.0  |
| Philadelphia, PA   | 300    | 287    | 355   | 281   | 315   | 20.7                         | 20.0 | 25.0 | 18.5 | 20.8 |
| Phoenix, AZ        | 156    | 187    | 245   | 324   | 546   | 5.8                          | 6.7  | 8.6  | 10.5 | 17.8 |
| Pittsburgh, PA     | 14     | 11     | 4     | 3     | 4     | 1.1                          | 0.9  | 0.3  | 0.2  | 0.3  |
| Portland, OR       | 11     | 8      | 9     | 7     | 13    | 2.2                          | 1.6  | 1.8  | 1.3  | 2.5  |
| Richmond, VA       | 29     | 20     | 17    | 17    | 20    | 15.1                         | 10.3 | 9.0  | 8.6  | 10.1 |
| Rochester, NY      | 21     | 21     | 13    | 6     | 1     | 8.7                          | 8.7  | 5.4  | 2.4  | 0.4  |
| Sacramento, CA     | 36     | 16     | 13    | 20    | 24    | 3.2                          | 1.4  | 1.1  | 1.6  | 2.0  |
| San Antonio, TX    | 182    | 143    | 121   | 113   | 167   | 13.7                         | 10.6 | 8.8  | 8.1  | 12.0 |
| San Diego, CA      | 206    | 135    | 196   | 195   | 103   | 7.6                          | 4.9  | 6.9  | 6.9  | 3.7  |
| San Francisco, CA  | 101    | 88     | 84    | 91    | 114   | 13.8                         | 11.8 | 11.2 | 11.7 | 14.7 |
| San Jose, CA       | 83     | 54     | 40    | 36    | 68    | 5.2                          | 3.3  | 2.4  | 2.1  | 4.0  |
| Seattle, WA        | 46     | 28     | 51    | 50    | 55    | 2.8                          | 1.7  | 3.1  | 2.9  | 3.2  |
| St Louis, MO       | 109    | 46     | 69    | 82    | 30    | 31.9                         | 13.6 | 20.7 | 23.6 | 8.6  |
| St Paul, MN        | 7      | 6      | 3     | 6     | 7     | 2.5                          | 2.2  | 1.1  | 2.1  | 2.5  |
| St Petersburg, FL  | 40     | 29     | 18    | 34    | 23    | 4.6                          | 3.3  | 2.0  | 3.7  | 2.5  |
| Tampa, FL          | 83     | 65     | 41    | 55    | 76    | 9.1                          | 7.0  | 4.4  | 5.5  | 7.6  |
| Toledo, OH         | 13     | 10     | 10    | 13    | 1     | 2.9                          | 2.2  | 2.2  | 2.9  | 0.2  |
| Tucson, AZ         | 34     | 23     | 20    | 14    | 42    | 4.4                          | 2.9  | 2.5  | 1.7  | 5.0  |
| Tulsa, OK          | 11     | 14     | 23    | 16    | 12    | 2.9                          | 3.7  | 6.0  | 4.1  | 3.0  |
| Washington, DC     | 168    | 202    | 129   | 237   | 195   | 31.8                         | 38.6 | 24.9 | 41.4 | 34.1 |
| Wichita, KS        | 22     | 5      | 16    | 7     | 4     | 5.0                          | 1.1  | 3.5  | 1.5  | 0.9  |
| Yonkers, NY        | 27     | 17     | 9     | 9     | 12    | 14.0                         | 8.8  | 4.6  | 4.5  | 6.0  |
| U.S. CITY TOTAL    | 11,095 | 10,171 | 9,024 | 8,845 | 9,710 | 15.9                         | 14.4 | 12.7 | 12.0 | 13.1 |
| San Juan, PR       | 312    | 293    | 322   | 222   | 178   | 35.8                         | 28.0 | 30.6 | 21.8 | 17.4 |
| TOTAL              | 11,407 | 10,464 | 9,346 | 9,067 | 9,888 | 16.2                         | 14.6 | 13.0 | 12.1 | 13.2 |

**Table 40. Congenital syphilis — Reported cases and rates in infants <1 year of age: United States (excluding outlying areas), 1963–2001**

| <i>Year*</i> | <i>Cases</i> | <i>Rate per 100,000 Live Births</i> |
|--------------|--------------|-------------------------------------|
| 1963         | 367          | 9.2                                 |
| 1964         | 336          | 8.7                                 |
| 1965         | 335          | 8.9                                 |
| 1966         | 333          | 8.8                                 |
| 1967         | 156          | 4.1                                 |
| 1968         | 274          | 7.3                                 |
| 1969         | 264          | 7.0                                 |
| 1970         | 323          | 8.6                                 |
| 1971         | 422          | 11.9                                |
| 1972         | 360          | 11.0                                |
| 1973         | 295          | 9.4                                 |
| 1974         | 250          | 7.9                                 |
| 1975         | 169          | 5.3                                 |
| 1976         | 160          | 5.1                                 |
| 1977         | 134          | 4.0                                 |
| 1978         | 104          | 3.0                                 |
| 1979         | 123          | 3.5                                 |
| 1980         | 107          | 3.0                                 |
| 1981         | 160          | 4.4                                 |
| 1982         | 159          | 4.3                                 |
| 1983         | 158          | 4.3                                 |
| 1984         | 247          | 6.7                                 |
| 1985         | 266          | 7.1                                 |
| 1986         | 357          | 9.5                                 |
| 1987         | 444          | 11.7                                |
| 1988         | 658          | 16.8                                |
| 1989         | 1,807        | 44.7                                |
| 1990         | 3,816        | 91.8                                |
| 1991         | 4,410        | 107.3                               |
| 1992         | 4,024        | 99.0                                |
| 1993         | 3,395        | 84.9                                |
| 1994         | 2,435        | 61.6                                |
| 1995         | 1,860        | 47.7                                |
| 1996         | 1,280        | 32.9                                |
| 1997         | 1,078        | 27.8                                |
| 1998         | 840          | 21.3                                |
| 1999         | 575          | 14.5                                |
| 2000         | 554          | 14.0                                |
| 2001         | 441          | 11.1                                |

\*Years 1963-1966 are fiscal years.

NOTE: The surveillance case definition for congenital syphilis changed in 1988 (see Appendix). As of 1995, cases of congenital syphilis <1 year of age are obtained using case reporting form CDC 73.126. Yearly case counts in this table correspond to confirmed diagnoses of congenital syphilis among those known to be less than one year of age. As a result, the case counts in this table are a subset of those listed in Table 1 for the years prior to 1995.

**Table 41. Congenital syphilis — Reported cases and rates in infants <1 year of age by state/area, ranked by rates: United States, 2001**

| <i>Rank<sup>2</sup></i> | <i>State/ Area<sup>3</sup></i> | <i>Cases</i> | <i>Rate per 100,000 Live Births</i> |
|-------------------------|--------------------------------|--------------|-------------------------------------|
| 1                       | Arizona                        | 29           | 35.7                                |
| 2                       | South Carolina                 | 16           | 29.1                                |
| 3                       | New Jersey                     | 32           | 28.0                                |
| 4                       | Illinois                       | 40           | 22.0                                |
| 5                       | Mississippi                    | 9            | 21.1                                |
| 6                       | Texas                          | 73           | 20.9                                |
| 7                       | Florida                        | 37           | 18.8                                |
| 8                       | Tennessee                      | 14           | 18.0                                |
| 9                       | North Carolina                 | 19           | 16.7                                |
| 10                      | Arkansas                       | 6            | 16.3                                |
| 11                      | Indiana                        | 13           | 15.1                                |
| 12                      | Georgia                        | 18           | 14.2                                |
| 13                      | New York                       | 33           | 12.9                                |
| 14                      | California                     | 59           | 11.4                                |
|                         | <b>U.S. TOTAL<sup>1</sup></b>  | <b>441</b>   | <b>11.1</b>                         |
| 15                      | Oklahoma                       | 5            | 10.2                                |
| 16                      | Alabama                        | 6            | 9.7                                 |
| 17                      | Missouri                       | 5            | 6.6                                 |
| 18                      | Maryland                       | 4            | 5.6                                 |
| 19                      | Kansas                         | 2            | 5.2                                 |
| 20                      | Connecticut                    | 2            | 4.6                                 |
| 21                      | Michigan                       | 4            | 3.0                                 |
| 22                      | Wisconsin                      | 2            | 2.9                                 |
| 23                      | Pennsylvania                   | 4            | 2.8                                 |
| 24                      | Massachusetts                  | 2            | 2.5                                 |
| 25                      | Virginia                       | 2            | 2.1                                 |
| 26                      | Kentucky                       | 1            | 1.8                                 |
| 27                      | Colorado                       | 1            | 1.6                                 |
|                         | <b>YEAR 2010 OBJECTIVE</b>     |              | <b>1.0</b>                          |
| 28                      | Ohio                           | 1            | 0.7                                 |
|                         | Alaska                         | 0            | 0.0                                 |
|                         | Delaware                       | 0            | 0.0                                 |
|                         | Hawaii                         | 0            | 0.0                                 |
|                         | Idaho                          | 0            | 0.0                                 |
|                         | Iowa                           | 0            | 0.0                                 |
|                         | Louisiana                      | 0            | 0.0                                 |
|                         | Maine                          | 0            | 0.0                                 |
|                         | Minnesota                      | 0            | 0.0                                 |
|                         | Montana                        | 0            | 0.0                                 |
|                         | Nebraska                       | 0            | 0.0                                 |
|                         | Nevada                         | 0            | 0.0                                 |
|                         | New Hampshire                  | 0            | 0.0                                 |
|                         | New Mexico                     | 0            | 0.0                                 |
|                         | North Dakota                   | 0            | 0.0                                 |
|                         | Oregon                         | 0            | 0.0                                 |
|                         | Rhode Island                   | 0            | 0.0                                 |
|                         | South Dakota                   | 0            | 0.0                                 |
|                         | Utah                           | 0            | 0.0                                 |
|                         | Vermont                        | 0            | 0.0                                 |
|                         | Washington                     | 0            | 0.0                                 |
|                         | West Virginia                  | 0            | 0.0                                 |
|                         | Wyoming                        | 0            | 0.0                                 |

<sup>1</sup>Total includes cases reported by Washington, D.C. but excludes outlying areas (Guam with 1 case and rate of 24.9, Puerto Rico with 21 cases and rate of 35.3, and Virgin Islands with 1 case and rate of 59.8).

<sup>2</sup>States were ranked in descending order by rate, number of cases, and alphabetically by state. States with no cases were not ranked.

<sup>3</sup>Mother's state of residence used to assign case.

**Table 42. Congenital syphilis — Reported cases and rates in infants <1 year of age by state/area and region listed in alphabetical order: United States and outlying areas, 1997–2001**

| State/Area*             | Cases |      |      |      |      | Rates per 100,000 Population |      |      |      |      |
|-------------------------|-------|------|------|------|------|------------------------------|------|------|------|------|
|                         | 1997  | 1998 | 1999 | 2000 | 2001 | 1997                         | 1998 | 1999 | 2000 | 2001 |
| Alabama                 | 31    | 12   | 7    | 7    | 6    | 50.9                         | 19.3 | 11.3 | 11.3 | 9.7  |
| Alaska                  | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Arizona                 | 12    | 25   | 24   | 25   | 29   | 15.9                         | 32.0 | 29.6 | 30.8 | 35.7 |
| Arkansas                | 41    | 30   | 14   | 15   | 6    | 112.4                        | 81.4 | 38.1 | 40.8 | 16.3 |
| California              | 162   | 122  | 88   | 86   | 59   | 30.9                         | 23.4 | 17.0 | 16.6 | 11.4 |
| Colorado                | 0     | 2    | 1    | 0    | 1    | 0.0                          | 3.4  | 1.6  | 0.0  | 1.6  |
| Connecticut             | 2     | 0    | 1    | 1    | 2    | 4.6                          | 0.0  | 2.3  | 2.3  | 4.6  |
| Delaware                | 2     | 0    | 0    | 0    | 0    | 19.5                         | 0.0  | 0.0  | 0.0  | 0.0  |
| Florida                 | 73    | 72   | 31   | 42   | 37   | 37.9                         | 36.8 | 15.7 | 21.3 | 18.8 |
| Georgia                 | 17    | 14   | 16   | 22   | 18   | 14.4                         | 11.4 | 12.6 | 17.4 | 14.2 |
| Hawaii                  | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Idaho                   | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Illinois                | 75    | 71   | 54   | 50   | 40   | 41.5                         | 38.9 | 29.7 | 27.5 | 22.0 |
| Indiana                 | 3     | 0    | 7    | 4    | 13   | 3.6                          | 0.0  | 8.1  | 4.6  | 15.1 |
| Iowa                    | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Kansas                  | 2     | 0    | 0    | 2    | 2    | 5.4                          | 0.0  | 0.0  | 5.2  | 5.2  |
| Kentucky                | 5     | 5    | 0    | 3    | 1    | 9.4                          | 9.2  | 0.0  | 5.5  | 1.8  |
| Louisiana               | 22    | 8    | 12   | 7    | 0    | 33.3                         | 12.0 | 17.9 | 10.4 | 0.0  |
| Maine                   | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Maryland                | 58    | 44   | 27   | 16   | 4    | 82.6                         | 61.1 | 37.5 | 22.2 | 5.6  |
| Massachusetts           | 1     | 2    | 0    | 1    | 2    | 1.2                          | 2.5  | 0.0  | 1.2  | 2.5  |
| Michigan                | 29    | 18   | 22   | 18   | 4    | 21.7                         | 13.5 | 16.5 | 13.5 | 3.0  |
| Minnesota               | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Mississippi             | 41    | 15   | 12   | 14   | 9    | 98.7                         | 34.9 | 28.1 | 32.8 | 21.1 |
| Missouri                | 10    | 15   | 10   | 3    | 5    | 13.5                         | 19.9 | 13.3 | 4.0  | 6.6  |
| Montana                 | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Nebraska                | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Nevada                  | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| New Hampshire           | 0     | 0    | 1    | 0    | 0    | 0.0                          | 0.0  | 7.1  | 0.0  | 0.0  |
| New Jersey              | 84    | 87   | 49   | 23   | 32   | 74.2                         | 75.9 | 42.9 | 20.2 | 28.0 |
| New Mexico              | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| New York                | 105   | 59   | 43   | 39   | 33   | 40.8                         | 22.8 | 16.8 | 15.3 | 12.9 |
| North Carolina          | 18    | 24   | 19   | 18   | 19   | 16.8                         | 21.5 | 16.7 | 15.8 | 16.7 |
| North Dakota            | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Ohio                    | 10    | 4    | 6    | 5    | 1    | 6.6                          | 2.6  | 3.9  | 3.3  | 0.7  |
| Oklahoma                | 9     | 16   | 9    | 1    | 5    | 18.6                         | 32.3 | 18.4 | 2.0  | 10.2 |
| Oregon                  | 1     | 0    | 0    | 0    | 0    | 2.3                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Pennsylvania            | 37    | 21   | 7    | 9    | 4    | 25.7                         | 14.4 | 4.8  | 6.2  | 2.8  |
| Rhode Island            | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| South Carolina          | 19    | 24   | 23   | 31   | 16   | 36.4                         | 44.5 | 41.9 | 56.4 | 29.1 |
| South Dakota            | 0     | 1    | 1    | 0    | 0    | 0.0                          | 9.7  | 9.5  | 0.0  | 0.0  |
| Tennessee               | 32    | 13   | 10   | 25   | 14   | 43.0                         | 16.8 | 12.9 | 32.1 | 18.0 |
| Texas                   | 149   | 114  | 68   | 71   | 73   | 44.6                         | 33.3 | 19.5 | 20.3 | 20.9 |
| Utah                    | 0     | 1    | 0    | 1    | 0    | 0.0                          | 2.2  | 0.0  | 2.2  | 0.0  |
| Vermont                 | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Virginia                | 7     | 6    | 3    | 7    | 2    | 7.6                          | 6.4  | 3.1  | 7.3  | 2.1  |
| Washington              | 0     | 1    | 1    | 0    | 0    | 0.0                          | 1.3  | 1.3  | 0.0  | 0.0  |
| West Virginia           | 1     | 0    | 0    | 0    | 0    | 4.8                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Wisconsin               | 9     | 6    | 9    | 4    | 2    | 13.5                         | 8.9  | 13.2 | 5.9  | 2.9  |
| Wyoming                 | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| U.S. TOTAL <sup>1</sup> | 1,078 | 840  | 575  | 554  | 441  | 27.8                         | 21.3 | 14.5 | 14.0 | 11.1 |
| Northeast               | 229   | 169  | 101  | 73   | 73   | 33.4                         | 24.4 | 14.7 | 10.6 | 10.6 |
| Midwest                 | 138   | 115  | 109  | 86   | 67   | 15.8                         | 13.1 | 12.4 | 9.7  | 7.6  |
| South                   | 536   | 405  | 251  | 283  | 212  | 38.7                         | 28.5 | 17.5 | 19.7 | 14.7 |
| West                    | 175   | 151  | 114  | 112  | 89   | 18.6                         | 15.9 | 12.0 | 11.7 | 9.3  |
| Guam                    | 0     | 0    | 0    | 0    | 1    | 0.0                          | 0.0  | 0.0  | 0.0  | 24.9 |
| Puerto Rico             | 9     | 28   | 23   | 17   | 21   | 14.0                         | 46.3 | 38.6 | 28.5 | 35.3 |
| Virgin Islands          | 0     | 0    | 0    | 0    | 1    | 0.0                          | 0.0  | 0.0  | 0.0  | 59.8 |
| OUTLYING AREAS          | 9     | 28   | 23   | 17   | 23   | 12.8                         | 42.1 | 35.2 | 26.1 | 35.2 |
| TOTAL                   | 1,087 | 868  | 598  | 571  | 464  | 27.5                         | 21.7 | 14.9 | 14.2 | 11.5 |

\*Mother's state of residence used to assign case.

<sup>1</sup>Includes cases reported by Washington, D.C.

**Table 43. Congenital syphilis — Reported cases and rates in infants <1 year of age in selected cities of >200,000 population, ranked by rates: United States, 2001**

| <i>Rank</i> <sup>1</sup> | <i>City*</i>               | <i>Cases</i> | <i>Rate per 100,000 Live Births</i> |
|--------------------------|----------------------------|--------------|-------------------------------------|
| 1                        | Newark, NJ                 | 8            | 163.8                               |
| 2                        | Phoenix, AZ                | 20           | 83.0                                |
| 3                        | Atlanta, GA                | 7            | 78.2                                |
| 4                        | Fort Worth, TX             | 8            | 76.7                                |
| 5                        | Miami, FL                  | 10           | 76.5                                |
| 6                        | Tampa, FL                  | 6            | 71.3                                |
| 7                        | Memphis, TN                | 8            | 70.2                                |
| 8                        | Indianapolis, IN           | 9            | 65.4                                |
| 9                        | Chicago, IL                | 31           | 61.4                                |
| 10                       | St Louis, MO               | 3            | 54.3                                |
| 11                       | Jersey City, NJ            | 2            | 51.6                                |
| 12                       | Nashville, TN              | 4            | 47.9                                |
| 13                       | Oakland, CA                | 3            | 47.5                                |
| 14                       | Houston, TX                | 20           | 46.5                                |
| 15                       | Los Angeles, CA            | 27           | 41.6                                |
| 16                       | Richmond, VA               | 1            | 34.1                                |
| 17                       | Dallas, TX                 | 8            | 33.5                                |
| 18                       | San Antonio, TX            | 6            | 27.5                                |
| 19                       | San Diego, CA              | 5            | 27.0                                |
| 20                       | Washington, DC             | 2            | 26.6                                |
| 21                       | Oklahoma City, OK          | 2            | 26.5                                |
| 22                       | Austin, TX                 | 3            | 25.4                                |
| 23                       | New York City, NY          | 28           | 23.5                                |
| 24                       | Birmingham, AL             | 1            | 22.3                                |
| 25                       | Buffalo, NY                | 1            | 21.5                                |
| 26                       | Baltimore, MD              | 2            | 19.4                                |
| 27                       | Philadelphia, PA           | 4            | 18.4                                |
| 28                       | Milwaukee, WI              | 2            | 17.8                                |
| 29                       | El Paso, TX                | 2            | 15.7                                |
| 30                       | San Jose, CA               | 2            | 12.5                                |
| 31                       | San Francisco, CA          | 1            | 12.3                                |
| 32                       | Charlotte, NC              | 1            | 10.3                                |
| 33                       | Columbus, OH               | 1            | 9.4                                 |
| 34                       | Detroit, MI                | 1            | 6.3                                 |
|                          | <b>YEAR 2010 OBJECTIVE</b> |              | <b>1.0</b>                          |
|                          | Tucson, AZ                 | 0            | 0.0                                 |
|                          | Sacramento, CA             | 0            | 0.0                                 |
|                          | Denver, CO                 | 0            | 0.0                                 |
|                          | Jacksonville, FL           | 0            | 0.0                                 |
|                          | St Petersburg, FL          | 0            | 0.0                                 |
|                          | Honolulu, HI               | 0            | 0.0                                 |
|                          | Des Moines, IA             | 0            | 0.0                                 |
|                          | Wichita, KS                | 0            | 0.0                                 |
|                          | Louisville, KY             | 0            | 0.0                                 |
|                          | New Orleans, LA            | 0            | 0.0                                 |
|                          | Boston, MA                 | 0            | 0.0                                 |
|                          | Minneapolis, MN            | 0            | 0.0                                 |
|                          | St Paul, MN                | 0            | 0.0                                 |
|                          | Kansas City, MO            | 0            | 0.0                                 |
|                          | Omaha, NE                  | 0            | 0.0                                 |
|                          | Albuquerque, NM            | 0            | 0.0                                 |
|                          | Rochester, NY              | 0            | 0.0                                 |
|                          | Yonkers, NY                | 0            | 0.0                                 |
|                          | Akron, OH                  | 0            | 0.0                                 |
|                          | Cincinnati, OH             | 0            | 0.0                                 |
|                          | Cleveland, OH              | 0            | 0.0                                 |
|                          | Dayton, OH                 | 0            | 0.0                                 |
|                          | Toledo, OH                 | 0            | 0.0                                 |
|                          | Tulsa, OK                  | 0            | 0.0                                 |
|                          | Portland, OR               | 0            | 0.0                                 |
|                          | Pittsburgh, PA             | 0            | 0.0                                 |
|                          | Corpus Christi, TX         | 0            | 0.0                                 |
|                          | Norfolk, VA                | 0            | 0.0                                 |
|                          | Seattle, WA                | 0            | 0.0                                 |

\*Mother's residence used to assign case. Excludes outlying areas (San Juan, PR, with 5 cases and rate of 72.0).

<sup>1</sup>Cities were ranked in descending order by rate, number of cases, and alphabetically by state. Cities with no cases were not ranked.

**Table 44. Congenital syphilis — Reported cases and rates in infants <1 year of age in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001**

| City*              | Cases |      |      |      |      | Rates per 100,000 Live Births |       |       |       |       |
|--------------------|-------|------|------|------|------|-------------------------------|-------|-------|-------|-------|
|                    | 1997  | 1998 | 1999 | 2000 | 2001 | 1997                          | 1998  | 1999  | 2000  | 2001  |
| Akron, OH          | 0     | 0    | 0    | 0    | 0    | 0.0                           | 0.0   | 0.0   | 0.0   | 0.0   |
| Albuquerque, NM    | 0     | 0    | 0    | 0    | 0    | 0.0                           | 0.0   | 0.0   | 0.0   | 0.0   |
| Atlanta, GA        | 12    | 5    | 7    | 7    | 7    | 142.7                         | 57.2  | 78.2  | 78.2  | 78.2  |
| Austin, TX         | 0     | 0    | 0    | 0    | 3    | 0.0                           | 0.0   | 0.0   | 0.0   | 25.4  |
| Baltimore, MD      | 56    | 29   | 21   | 15   | 2    | 573.4                         | 295.6 | 203.9 | 145.6 | 19.4  |
| Birmingham, AL     | 6     | 5    | 2    | 2    | 1    | 139.2                         | 112.6 | 44.6  | 44.6  | 22.3  |
| Boston, MA         | 0     | 2    | 0    | 0    | 0    | 0.0                           | 25.4  | 0.0   | 0.0   | 0.0   |
| Buffalo, NY        | 3     | 0    | 0    | 0    | 1    | 62.7                          | 0.0   | 0.0   | 0.0   | 21.5  |
| Charlotte, NC      | 0     | 1    | 3    | 3    | 1    | 0.0                           | 10.8  | 31.0  | 31.0  | 10.3  |
| Chicago, IL        | 50    | 49   | 44   | 38   | 31   | 97.7                          | 95.2  | 87.1  | 75.2  | 61.4  |
| Cincinnati, OH     | 0     | 0    | 0    | 0    | 0    | 0.0                           | 0.0   | 0.0   | 0.0   | 0.0   |
| Cleveland, OH      | 6     | 3    | 2    | 2    | 0    | 63.2                          | 33.5  | 23.4  | 23.4  | 0.0   |
| Columbus, OH       | 1     | 1    | 2    | 0    | 1    | 9.1                           | 8.9   | 18.7  | 0.0   | 9.4   |
| Corpus Christi, TX | 0     | 1    | 0    | 0    | 0    | 0.0                           | 21.6  | 0.0   | 0.0   | 0.0   |
| Dallas, TX         | 3     | 18   | 4    | 6    | 8    | 13.3                          | 77.4  | 16.8  | 25.1  | 33.5  |
| Dayton, OH         | 0     | 0    | 0    | 0    | 0    | 0.0                           | 0.0   | 0.0   | 0.0   | 0.0   |
| Denver, CO         | 0     | 1    | 1    | 0    | 0    | 0.0                           | 10.2  | 9.8   | 0.0   | 0.0   |
| Des Moines, IA     | 0     | 0    | 0    | 0    | 0    | 0.0                           | 0.0   | 0.0   | 0.0   | 0.0   |
| Detroit, MI        | 25    | 14   | 21   | 9    | 1    | 149.4                         | 85.2  | 132.9 | 56.9  | 6.3   |
| El Paso, TX        | 2     | 0    | 1    | 2    | 2    | 15.2                          | 0.0   | 7.9   | 15.7  | 15.7  |
| Fort Worth, TX     | 6     | 1    | 2    | 4    | 8    | 63.2                          | 10.1  | 19.2  | 38.4  | 76.7  |
| Honolulu, HI       | 0     | 0    | 0    | 0    | 0    | 0.0                           | 0.0   | 0.0   | 0.0   | 0.0   |
| Houston, TX        | 101   | 56   | 31   | 31   | 20   | 242.8                         | 133.2 | 72.0  | 72.0  | 46.5  |
| Indianapolis, IN   | 0     | 0    | 6    | 3    | 9    | 0.0                           | 0.0   | 43.6  | 21.8  | 65.4  |
| Jacksonville, FL   | 0     | 0    | 0    | 2    | 0    | 0.0                           | 0.0   | 0.0   | 17.6  | 0.0   |
| Jersey City, NJ    | 4     | 3    | 0    | 3    | 2    | 101.9                         | 76.4  | 0.0   | 77.3  | 51.6  |
| Kansas City, MO    | 1     | 0    | 1    | 2    | 0    | 13.1                          | 0.0   | 13.7  | 27.4  | 0.0   |
| Los Angeles, CA    | 67    | 62   | 36   | 41   | 27   | 98.6                          | 94.2  | 55.5  | 63.2  | 41.6  |
| Louisville, KY     | 3     | 4    | 0    | 1    | 0    | 46.0                          | 58.5  | 0.0   | 14.5  | 0.0   |
| Memphis, TN        | 28    | 11   | 10   | 14   | 8    | 248.5                         | 96.6  | 87.7  | 122.8 | 70.2  |
| Miami, FL          | 31    | 37   | 10   | 18   | 10   | 218.4                         | 278.7 | 76.5  | 137.6 | 76.5  |
| Milwaukee, WI      | 9     | 6    | 7    | 4    | 2    | 83.8                          | 54.5  | 62.2  | 35.5  | 17.8  |
| Minneapolis, MN    | 0     | 0    | 0    | 0    | 0    | 0.0                           | 0.0   | 0.0   | 0.0   | 0.0   |
| Nashville, TN      | 0     | 0    | 0    | 5    | 4    | 0.0                           | 0.0   | 0.0   | 59.9  | 47.9  |
| New Orleans, LA    | 4     | 2    | 4    | 0    | 0    | 51.7                          | 26.4  | 52.1  | 0.0   | 0.0   |
| New York City, NY  | 84    | 45   | 40   | 32   | 28   | 70.6                          | 37.5  | 33.5  | 26.8  | 23.5  |
| Newark, NJ         | 26    | 26   | 12   | 9    | 8    | 509.4                         | 536.7 | 245.7 | 184.3 | 163.8 |
| Norfolk, VA        | 1     | 0    | 0    | 3    | 0    | 25.5                          | 0.0   | 0.0   | 77.7  | 0.0   |
| Oakland, CA        | 2     | 2    | 3    | 1    | 3    | 31.2                          | 31.4  | 47.5  | 15.8  | 47.5  |
| Oklahoma City, OK  | 5     | 11   | 5    | 0    | 2    | 65.6                          | 142.8 | 66.3  | 0.0   | 26.5  |
| Omaha, NE          | 0     | 0    | 0    | 0    | 0    | 0.0                           | 0.0   | 0.0   | 0.0   | 0.0   |
| Philadelphia, PA   | 37    | 21   | 7    | 9    | 4    | 167.6                         | 95.0  | 32.2  | 41.4  | 18.4  |
| Phoenix, AZ        | 10    | 19   | 16   | 20   | 20   | 44.2                          | 82.0  | 66.4  | 83.0  | 83.0  |
| Pittsburgh, PA     | 0     | 0    | 0    | 0    | 0    | 0.0                           | 0.0   | 0.0   | 0.0   | 0.0   |
| Portland, OR       | 1     | 0    | 0    | 0    | 0    | 14.0                          | 0.0   | 0.0   | 0.0   | 0.0   |
| Richmond, VA       | 1     | 3    | 0    | 0    | 1    | 30.5                          | 105.2 | 0.0   | 0.0   | 34.1  |
| Rochester, NY      | 0     | 2    | 1    | 0    | 0    | 0.0                           | 46.3  | 25.8  | 0.0   | 0.0   |
| Sacramento, CA     | 5     | 2    | 2    | 2    | 0    | 47.6                          | 18.8  | 18.9  | 18.9  | 0.0   |
| San Antonio, TX    | 4     | 5    | 4    | 5    | 6    | 18.6                          | 22.9  | 18.3  | 22.9  | 27.5  |
| San Diego, CA      | 13    | 7    | 7    | 0    | 5    | 69.6                          | 37.8  | 37.8  | 0.0   | 27.0  |
| San Francisco, CA  | 2     | 1    | 1    | 1    | 1    | 24.4                          | 12.3  | 12.3  | 12.3  | 12.3  |
| San Jose, CA       | 1     | 0    | 2    | 1    | 2    | 6.2                           | 0.0   | 12.5  | 6.2   | 12.5  |
| Seattle, WA        | 0     | 0    | 1    | 0    | 0    | 0.0                           | 0.0   | 13.6  | 0.0   | 0.0   |
| St Louis, MO       | 5     | 3    | 5    | 1    | 3    | 86.7                          | 53.4  | 90.5  | 18.1  | 54.3  |
| St Paul, MN        | 0     | 0    | 0    | 0    | 0    | 0.0                           | 0.0   | 0.0   | 0.0   | 0.0   |
| St Petersburg, FL  | 0     | 0    | 1    | 0    | 0    | 0.0                           | 0.0   | 29.5  | 0.0   | 0.0   |
| Tampa, FL          | 7     | 4    | 4    | 1    | 6    | 100.6                         | 50.8  | 47.5  | 11.9  | 71.3  |
| Toledo, OH         | 0     | 0    | 0    | 0    | 0    | 0.0                           | 0.0   | 0.0   | 0.0   | 0.0   |
| Tucson, AZ         | 0     | 0    | 0    | 0    | 0    | 0.0                           | 0.0   | 0.0   | 0.0   | 0.0   |
| Tulsa, OK          | 1     | 3    | 1    | 0    | 0    | 15.7                          | 45.1  | 15.2  | 0.0   | 0.0   |
| Washington, DC     | 11    | 8    | 0    | 4    | 2    | 138.8                         | 104.1 | 0.0   | 53.2  | 26.6  |
| Wichita, KS        | 2     | 0    | 0    | 0    | 0    | 32.2                          | 0.0   | 0.0   | 0.0   | 0.0   |
| Yonkers, NY        | 0     | 2    | 0    | 0    | 0    | 0.0                           | 74.3  | 0.0   | 0.0   | 0.0   |
| U.S. CITY TOTAL    | 636   | 475  | 327  | 301  | 239  | 80.3                          | 59.4  | 40.9  | 37.7  | 29.9  |
| San Juan, PR       | 3     | 1    | 3    | 5    | 5    | 43.2                          | 15.3  | 43.2  | 72.0  | 72.0  |
| TOTAL              | 639   | 476  | 330  | 306  | 244  | 80.0                          | 59.1  | 40.9  | 38.0  | 30.3  |

\*Mother's residence used to assign case.

**Table 45. Congenital syphilis — Reported cases and rates in infants <1 year of age by race/ethnicity of mother, 1997–2001**

| <i>Year of Birth</i> | <i>Race/Ethnicity</i>          | <i>Cases</i> | <i>Rate per 100,000 Live Births*</i> |
|----------------------|--------------------------------|--------------|--------------------------------------|
| <b>1997</b>          | White/Non-Hispanic             | 85           | 3.6                                  |
|                      | Black/Non-Hispanic             | 717          | 122.4                                |
|                      | Hispanic                       | 238          | 33.5                                 |
|                      | Asian/Pacific Islander         | 14           | 8.4                                  |
|                      | Native American/Alaskan Native | 4            | 11.0                                 |
|                      | Other                          | 3            | NA                                   |
|                      | Unknown                        | 17           | NA                                   |
|                      | Total                          | 1078         | 27.8                                 |
| <b>1998</b>          | White/Non-Hispanic             | 76           | 3.2                                  |
|                      | Black/Non-Hispanic             | 529          | 88.6                                 |
|                      | Hispanic                       | 204          | 27.8                                 |
|                      | Asian/Pacific Islander         | 8            | 4.7                                  |
|                      | Native American/Alaskan Native | 5            | 13.2                                 |
|                      | Other                          | 8            | NA                                   |
|                      | Unknown                        | 10           | NA                                   |
|                      | Total                          | 840          | 21.3                                 |
| <b>1999</b>          | White/Non-Hispanic             | 47           | 2.0                                  |
|                      | Black/Non-Hispanic             | 350          | 59.1                                 |
|                      | Hispanic                       | 148          | 19.4                                 |
|                      | Asian/Pacific Islander         | 8            | 4.5                                  |
|                      | Native American/Alaskan Native | 6            | 15.9                                 |
|                      | Other                          | 4            | NA                                   |
|                      | Unknown                        | 12           | NA                                   |
|                      | Total                          | 575          | 14.5                                 |
| <b>2000</b>          | White/Non-Hispanic             | 36           | 1.5                                  |
|                      | Black/Non-Hispanic             | 313          | 52.8                                 |
|                      | Hispanic                       | 168          | 22.0                                 |
|                      | Asian/Pacific Islander         | 11           | 6.2                                  |
|                      | Native American/Alaskan Native | 5            | 13.2                                 |
|                      | Other                          | 3            | NA                                   |
|                      | Unknown                        | 18           | NA                                   |
|                      | Total                          | 554          | 14.0                                 |
| <b>2001</b>          | White/Non-Hispanic             | 44           | 1.8                                  |
|                      | Black/Non-Hispanic             | 224          | 37.8                                 |
|                      | Hispanic                       | 154          | 20.1                                 |
|                      | Asian/Pacific Islander         | 3            | 1.7                                  |
|                      | Native American/Alaskan Native | 5            | 13.2                                 |
|                      | Other                          | 1            | NA                                   |
|                      | Unknown                        | 10           | NA                                   |
|                      | Total                          | 441          | 11.1                                 |

\*NA = Not applicable.

**Table 46. Chancroid — Reported cases and rates by state/area listed in alphabetical order: United States and outlying areas, 1997–2001**

| State/Area              | Cases |      |      |      |      | Rates per 100,000 Population |      |      |      |      |
|-------------------------|-------|------|------|------|------|------------------------------|------|------|------|------|
|                         | 1997  | 1998 | 1999 | 2000 | 2001 | 1997                         | 1998 | 1999 | 2000 | 2001 |
| Alabama                 | 1     | 1    | 1    | 1    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Alaska                  | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Arizona                 | 0     | 2    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Arkansas                | 1     | 7    | 0    | 0    | 0    | 0.0                          | 0.3  | 0.0  | 0.0  | 0.0  |
| California              | 19    | 7    | 7    | 3    | 2    | 0.1                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Colorado                | 0     | 0    | 0    | 1    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Connecticut             | 0     | 2    | 0    | 0    | 0    | 0.0                          | 0.1  | 0.0  | 0.0  | 0.0  |
| Delaware                | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Florida                 | 3     | 3    | 2    | 0    | 2    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Georgia                 | 1     | 2    | 1    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Hawaii                  | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Idaho                   | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Illinois                | 5     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Indiana                 | 0     | 1    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Iowa                    | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Kansas                  | 0     | 1    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Kentucky                | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Louisiana               | 3     | 1    | 9    | 6    | 0    | 0.1                          | 0.0  | 0.2  | 0.1  | 0.0  |
| Maine                   | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Maryland                | 1     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Massachusetts           | 4     | 0    | 1    | 2    | 2    | 0.1                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Michigan                | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Minnesota               | 0     | 0    | 1    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Mississippi             | 1     | 3    | 0    | 0    | 0    | 0.0                          | 0.1  | 0.0  | 0.0  | 0.0  |
| Missouri                | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Montana                 | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Nebraska                | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Nevada                  | 2     | 0    | 0    | 0    | 0    | 0.1                          | 0.0  | 0.0  | 0.0  | 0.0  |
| New Hampshire           | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| New Jersey              | 0     | 0    | 0    | 0    | 4    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| New Mexico              | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| New York                | 119   | 82   | 39   | 26   | 3    | 0.7                          | 0.5  | 0.2  | 0.1  | 0.0  |
| North Carolina          | 9     | 9    | 7    | 5    | 3    | 0.1                          | 0.1  | 0.1  | 0.1  | 0.0  |
| North Dakota            | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Ohio                    | 3     | 3    | 0    | 1    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Oklahoma                | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Oregon                  | 1     | 0    | 1    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Pennsylvania            | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Rhode Island            | 0     | 0    | 1    | 0    | 0    | 0.0                          | 0.0  | 0.1  | 0.0  | 0.0  |
| South Carolina          | 15    | 19   | 48   | 10   | 15   | 0.4                          | 0.5  | 1.2  | 0.2  | 0.4  |
| South Dakota            | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Tennessee               | 1     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Texas                   | 53    | 34   | 16   | 19   | 6    | 0.3                          | 0.2  | 0.1  | 0.1  | 0.0  |
| Utah                    | 0     | 0    | 0    | 0    | 1    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Vermont                 | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Virginia                | 1     | 7    | 3    | 2    | 0    | 0.0                          | 0.1  | 0.0  | 0.0  | 0.0  |
| Washington              | 2     | 1    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| West Virginia           | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Wisconsin               | 0     | 3    | 4    | 2    | 0    | 0.0                          | 0.1  | 0.1  | 0.0  | 0.0  |
| Wyoming                 | 1     | 1    | 1    | 0    | 0    | 0.2                          | 0.2  | 0.2  | 0.0  | 0.0  |
| U.S. TOTAL <sup>1</sup> | 246   | 189  | 142  | 78   | 38   | 0.1                          | 0.1  | 0.1  | 0.0  | 0.0  |
| Guam                    | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Puerto Rico             | 1     | 2    | 1    | 3    | 4    | 0.0                          | 0.1  | 0.0  | 0.1  | 0.1  |
| Virgin Islands          | 0     | 0    | 0    | 1    | 0    | 0.0                          | 0.0  | 0.0  | 0.9  | 0.0  |
| OUTLYING AREAS          | 1     | 2    | 1    | 4    | 4    | 0.0                          | 0.0  | 0.0  | 0.1  | 0.1  |
| TOTAL                   | 247   | 191  | 143  | 82   | 42   | 0.1                          | 0.1  | 0.1  | 0.0  | 0.0  |

<sup>1</sup>Includes cases reported by Washington, D.C.

**Table 47. Chancroid — Reported cases and rates in selected cities of >200,000 population listed in alphabetical order: United States and outlying areas, 1997–2001**

| City               | Cases |      |      |      |      | Rates per 100,000 Population |      |      |      |      |
|--------------------|-------|------|------|------|------|------------------------------|------|------|------|------|
|                    | 1997  | 1998 | 1999 | 2000 | 2001 | 1997                         | 1998 | 1999 | 2000 | 2001 |
| Akron, OH          | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Albuquerque, NM    | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Atlanta, GA        | 1     | 1    | 0    | 0    | 0    | 0.1                          | 0.1  | 0.0  | 0.0  | 0.0  |
| Austin, TX         | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Baltimore, MD      | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Birmingham, AL     | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Boston, MA         | 3     | 0    | 0    | 0    | 0    | 0.5                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Buffalo, NY        | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Charlotte, NC      | 1     | 0    | 1    | 0    | 1    | 0.2                          | 0.0  | 0.2  | 0.0  | 0.1  |
| Chicago, IL        | 5     | 0    | 0    | 0    | 0    | 0.2                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Cincinnati, OH     | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Cleveland, OH      | 0     | 2    | 0    | 0    | 0    | 0.0                          | 0.1  | 0.0  | 0.0  | 0.0  |
| Columbus, OH       | 3     | 1    | 0    | 0    | 0    | 0.3                          | 0.1  | 0.0  | 0.0  | 0.0  |
| Corpus Christi, TX | 0     | 0    | 1    | 0    | 0    | 0.0                          | 0.0  | 0.3  | 0.0  | 0.0  |
| Dallas, TX         | 13    | 6    | 4    | 6    | 1    | 0.6                          | 0.3  | 0.2  | 0.3  | 0.0  |
| Dayton, OH         | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Denver, CO         | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Des Moines, IA     | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Detroit, MI        | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| El Paso, TX        | 2     | 4    | 0    | 1    | 0    | 0.3                          | 0.6  | 0.0  | 0.1  | 0.0  |
| Fort Worth, TX     | 1     | 0    | 2    | 2    | 0    | 0.1                          | 0.0  | 0.1  | 0.1  | 0.0  |
| Honolulu, HI       | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Houston, TX        | 23    | 20   | 7    | 3    | 1    | 0.7                          | 0.6  | 0.2  | 0.1  | 0.0  |
| Indianapolis, IN   | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Jacksonville, FL   | 0     | 0    | 0    | 0    | 1    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.1  |
| Jersey City, NJ    | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Kansas City, MO    | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Los Angeles, CA    | 12    | 0    | 1    | 1    | 0    | 0.1                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Louisville, KY     | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Memphis, TN        | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Miami, FL          | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Milwaukee, WI      | 0     | 2    | 2    | 0    | 0    | 0.0                          | 0.2  | 0.2  | 0.0  | 0.0  |
| Minneapolis, MN    | 0     | 0    | 1    | 0    | 0    | 0.0                          | 0.0  | 0.3  | 0.0  | 0.0  |
| Nashville, TN      | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| New Orleans, LA    | 3     | 0    | 4    | 6    | 0    | 0.6                          | 0.0  | 0.9  | 1.2  | 0.0  |
| New York City, NY  | 119   | 82   | 39   | 26   | 3    | 1.6                          | 1.1  | 0.5  | 0.3  | 0.0  |
| Newark, NJ         | 0     | 0    | 0    | 0    | 1    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.3  |
| Norfolk, VA        | 0     | 0    | 1    | 0    | 0    | 0.0                          | 0.0  | 0.4  | 0.0  | 0.0  |
| Oakland, CA        | 1     | 0    | 1    | 0    | 1    | 0.1                          | 0.0  | 0.1  | 0.0  | 0.1  |
| Oklahoma City, OK  | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Omaha, NE          | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Philadelphia, PA   | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Phoenix, AZ        | 0     | 2    | 0    | 0    | 0    | 0.0                          | 0.1  | 0.0  | 0.0  | 0.0  |
| Pittsburgh, PA     | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Portland, OR       | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Richmond, VA       | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Rochester, NY      | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Sacramento, CA     | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| San Antonio, TX    | 0     | 0    | 0    | 1    | 0    | 0.0                          | 0.0  | 0.0  | 0.1  | 0.0  |
| San Diego, CA      | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| San Francisco, CA  | 3     | 4    | 0    | 0    | 1    | 0.4                          | 0.5  | 0.0  | 0.0  | 0.1  |
| San Jose, CA       | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Seattle, WA        | 1     | 0    | 0    | 0    | 0    | 0.1                          | 0.0  | 0.0  | 0.0  | 0.0  |
| St Louis, MO       | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| St Paul, MN        | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| St Petersburg, FL  | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Tampa, FL          | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Toledo, OH         | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Tucson, AZ         | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Tulsa, OK          | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Washington, DC     | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Wichita, KS        | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| Yonkers, NY        | 0     | 0    | 0    | 0    | 0    | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  |
| U.S. CITY TOTAL    | 191   | 124  | 64   | 46   | 10   | 0.3                          | 0.2  | 0.1  | 0.1  | 0.0  |
| San Juan, PR       | 0     | 1    | 1    | 2    | 1    | 0.0                          | 0.1  | 0.1  | 0.2  | 0.1  |
| TOTAL              | 191   | 125  | 65   | 48   | 11   | 0.3                          | 0.2  | 0.1  | 0.1  | 0.0  |



## Sources and Limitations of Data

### CDC Surveillance Data

Much of the information in this document is based on cases of sexually transmitted diseases (STDs) reported to the Division of STD Prevention (DSTD), National Center for HIV, STD, and TB Prevention (NCHSTP), Centers for Disease Control and Prevention (CDC), by the STD control programs and health departments in the 50 states, the District of Columbia, selected cities, 3,139 U.S. counties, U.S. dependencies and possessions, and independent nations in free association with the United States. Included among the dependencies, possessions, and independent nations are Guam, Puerto Rico, and the Virgin Islands. These entities are identified as “outlying areas” of the United States in selected figures and tables.

At present, STD data are submitted to CDC on a variety of hardcopy summary reporting forms (monthly, quarterly, and annually) and electronically either in summary or individual case-specific (line-listed) format 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). DSTD is currently working with project areas on converting from hardcopy reporting of summary data to electronic submission of line-listed (i.e., case-specific) data through NETSS. As of December 31, 2001, 39 states have been reporting primary and secondary (P&S) syphilis, chlamydia and gonorrhea as line-listed extended electronic data. See Figures A1-A3 in this **Appendix** for type of electronic reporting by state and disease. “Summary” refers to aggregate electronic data. “Case” refers to limited line-listed electronic data in conjunction with hardcopy reporting. “Extended case” refers to expanded line-listed electronic data in conjunction with hardcopy reporting. “Discontinued hardcopy” refers to those states that consistently submitted high quality line-listed electronic data and were, therefore, notified by CDC to discontinue hardcopy reporting.

The data used in this report are based on a combination of aggregated final NETSS electronic data and summary hardcopy reporting forms. Monthly hardcopy reporting forms (CDC 73.998) include summary data for syphilis by county and state. Quarterly hardcopy reporting forms (CDC 73.688) include summary data for early syphilis, gonorrhea, chlamydia, and other STDs by sex and source of report (STD clinic or non-STD clinic) for the 50 states, 64 large cities (most with a population of 200,000 or more persons in 1980), and outlying areas of the United States. Annual hardcopy reporting forms (CDC 73.2638) include summary data for P&S syphilis, gonorrhea, and chlamydia by age, race, and sex for the 50 states and six large cities.

Areas differ in their ability to resolve differences in total cases derived from hardcopy monthly, quarterly, and annual reports (as well as electronically submitted case-listed data). Thus, depending on the database used, there may be discrepancies in the total number of cases among the figures and tables. In most instances, these discrepancies are less than 5% of total reported cases and have minimal impact on national case totals and rates. However, for a specific area, the discrepancies may be larger.

Reports and corrections sent to CDC on hardcopy forms and for NETSS electronic data through May 3, 2002 have been included in this report. Data received after this date will appear in subsequent issues. The data in the figures and tables in this document supersede those in all earlier publications.

## **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 2001 rates for the U.S., all states, cities and outlying areas were calculated by dividing the number of cases reported from each area in 2001 by the estimated area-specific 2000 population. For the United States, rates were calculated using Bureau of the Census population estimates for 1981 through 1989 (Bureau of the Census; United States Population Estimates by Age, Sex and Race: 1980-1989 [Series P-25, No. 1045]; Washington: U.S. Government Printing Office, 1990; and United States Population Estimates by Age, Sex and Race: 1989 [Series P-25, No. 1057]; Washington: U.S. Government Printing Office, 1990). Rates for states and counties were calculated using published intercensal estimates based on Bureau of the Census population estimates for 1980-1989 (Irwin R; 1980-1989 Intercensal Population Estimates by Race, Sex, and Age; Alexandria, [VA]: Demo-Detail, 1992; machine-readable data file). Rates for 1990 were calculated using population data from the 1990 census (Census of Population and Housing, 1990: Summary Tape File 1 (All States) [machine-readable file]; Washington: Bureau of the Census, 1991), which included information on area (County, State), age (5-year age groups), race (White, Black, Asian/Pacific Islander, American Indian/Alaska Native) and ethnicity (Hispanic). Rates for 1991-2001 were updated from previous issues of this report using postcensal population estimates based on the Bureau of the Census data (U.S. Bureau of the Census; 1991-2000 Estimates of the Population of Counties by Age, Sex and Race/Hispanic Origin: 1990 to 2000; machine-readable data files).

Many cities do not have a separate health jurisdiction that collects and reports cases of STDs. For these cities, case numbers and crude incidence rates are equal to those of the county or combination of counties in which the city is located. These city population numbers are updated yearly, based on estimates from the Bureau of Census, and verified by the city project areas.

Population estimates for 1980-1988 for areas outside the United States were obtained from the Bureau of the Census (Bureau of the Census; population estimates for Puerto Rico and the outlying areas: 1980 to 1988; Current Population Reports [Series P-25, No. 1049]; Washington: U.S. Government Printing Office, 1989). After 1988, population estimates for outlying areas were obtained from the health departments located in these areas. Population estimates for the Virgin Islands were used to calculate the rates through 1999. Population estimates for Guam were projected for each year through 1999 based on the 1990 census. Population estimates for both Guam and Virgin Islands were available from the Bureau of the Census for 2000 and were used to calculate 2000-2001 rates. Puerto Rico's population estimates from 1997 to 2000 were obtained from the Bureau of the Census.

The percentage of reported cases for which race/ethnicity and age information were missing differed substantially by year and area. States were excluded from comparison across race/ethnicity categories if race/ethnicity data were missing from 50% or more of the state's reported cases. Similarly, states in which age information was missing from the majority of reported cases were excluded from comparison across age categories. Missing values for race/ethnicity and age were imputed for records missing these data for states in which more than half of the reported cases contained

race/ethnicity and age information. In previous years, missing age and race/ethnicity information was not imputed if a record was missing either of these pieces of information. Beginning in 2000, the imputation method was altered so that missing data were not imputed only for records missing both age and sex information. As a result, some age- and/or race/ethnicity-specific case counts and rates presented in this report may differ from earlier publications. Values cited in this report supercede those presented earlier.

Rates of congenital syphilis for 1989-2001 were calculated using live births from the National Center for Health Statistics (NCHS) (Vital Statistics: Natality Tapes 1989-1999 or Vital Statistics Reports, United States 1999, Vol. 48 No.10-Natality). Race-specific rates for 1999-2001 were calculated using live births for 1999. Rates before 1989 were calculated using published live birth data (NCHS; Vital Statistics Report, United States, 1988 [Vol.1–Natality]).

## **Reporting Practices**

Although most areas generally adhere to the case definitions for STDs found in *Case Definitions for Infectious Conditions Under Public Health Surveillance*<sup>1</sup>, there may be differences in the policies and systems for collecting surveillance data. Thus, comparisons of case numbers and rates among 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. In many areas, the reporting from publicly supported institutions (e.g., STD clinics) was more complete than from other sources (e.g., private practitioners). Thus, the trends may not be representative of all segments of the population. Military cases are not reported as a separate category.

## **Reporting of Chlamydia Cases**

New York City has been reporting chlamydia cases since 1984. However, the State of New York, with the exception of New York City, initiated chlamydia reporting during the year 2000. As a result, the number of chlamydia cases reported by the state of New York (including the cities of Buffalo, Rochester and Yonkers) prior to the year 2001 may be incomplete and the rate for New York State is underestimated. To be consistent with the practice used in earlier years, New York State chlamydia reporting data was included in the calculation of overall national chlamydia rates. The number of chlamydia cases occurring in the fourth quarter of 2000 for the State of Colorado was projected based on case counts from the first three quarters.

Trends in many areas were more reflective of changes in reporting of cases rather than actual trends in disease. Cases and rates of chlamydia reported in sex-specific tables are underestimated due to some reported cases with unknown sex. Despite problems with under-reporting, it is important to publish available data to emphasize the large numbers of cases of chlamydia being detected in the United States. As areas develop chlamydia prevention and control programs, including improved surveillance systems to monitor trends, the data should improve and become more representative of true trends in disease.

## **Reporting of Syphilis Cases**

“Total syphilis” or “all stages of syphilis” includes primary, secondary, early latent, late (including neurosyphilis, late latent, late with clinical manifestations, and unknown latent), and congenital syphilis. Cases of unknown duration, neurosyphilis, and late syphilis with clinical manifestations are included in late and late latent syphilis totals.

## Reporting of Congenital Syphilis Cases

In 1988, the surveillance case definition for congenital syphilis was changed. This case definition has greater sensitivity than the former definition.<sup>2</sup> In addition, many areas have greatly enhanced active case finding for congenital syphilis since 1988. For these reasons, the number of reported cases increased dramatically during 1989-1991. As a result of this change in surveillance activity a period of transition during which trends cannot be clearly interpreted has resulted; however, all reporting areas had implemented the new case definition for reporting all cases of congenital syphilis by January 1, 1992. Therefore, the reliability of trends is expected to have stabilized after this date.

In addition to changing the case definition for congenital syphilis, CDC introduced a new data collection form (CDC 73.126) in 1990. Beginning with 1995, the data collected on this form are used for reporting congenital syphilis reported cases and associated rates. This form is used to collect individual case information which allows more thorough analysis of cases. For the purpose of analyses by race/ethnicity, if either the race or ethnicity question was answered, the case was included. For example, if "white" race was marked, but ethnicity was left blank, the individual was counted as "non-Hispanic white." Congenital syphilis cases were reported by state and city of residence of the mother for 1995 through 2001.

## Chlamydia, gonorrhea, and syphilis prevalence monitoring

Chlamydia and gonorrhea test positivity for women attending family planning clinics, prenatal clinics, Indian Health Service clinics, the National Job Training Program, and men and women entering jail and juvenile detention facilities was calculated by dividing the number of persons testing positive for chlamydia or gonorrhea (numerator) by the total number of persons screened for each disease (denominator) and was expressed as a percentage. Except for the National Job Training Program screening data, the denominators for these data sources may include more than one test from the same individual if that person was tested more than once during a year. Various laboratory test methods were used for all of these data sources except the National Job Training Program and, for most of the figures shown, no adjustments of test positivity were made based on laboratory test type and sensitivity. However, for Figure 8, the chlamydia test results for each test type were weighted to reflect the sensitivity of the test used.<sup>3</sup> The weights used in this adjustment are the reciprocals of the sensitivities of the laboratory test methods used. These test-specific sensitivities were defined as the midpoints of the range of published values for the sensitivities for each technology type (e.g., non-amplified, nucleic acid amplification, and culture) based on expert consultation regarding test evaluation studies.<sup>4,5</sup> Limitations of this adjustment include: unknown dates when laboratories changed tests, missing information on the test method, variation of test sensitivity within a technology type, and no adjustment for supplemental testing such as negative grey zone testing.

For more details on chlamydia prevalence, refer to the following annual publication: Centers for Disease Control and Prevention. *Sexually Transmitted Disease Surveillance 2001 Supplement: Chlamydia Prevalence Monitoring Project Annual Report 2001*. Atlanta, GA: U.S. Department of Health and Human Services (in press).

Data on antimicrobial susceptibility in *Neisseria gonorrhoeae* were collected through the Gonococcal Isolate Surveillance Project (GISP), a sentinel system of 26 STD clinics and five regional laboratories located throughout the United States. For more details on GISP gonorrhea cases, refer to the following annual publication: Centers for Disease Control and Prevention. *Sexually Transmitted*

*Disease Surveillance 2001 Supplement: Gonococcal Isolate Surveillance Project (GISP) Annual Report 2001* Atlanta, GA: U.S. Department of Health and Human Services (in press).

Syphilis seroreactivity data on men and women entering jails and juvenile detention facilities were calculated by dividing the number of persons with a reactive syphilis serologic test (numerator) by the total number of persons screened for syphilis (denominator) and expressed as a percentage. These seroreactivity data in most instances do not reflect confirmatory testing and thus biologic false positive test results were not systematically excluded. The extent to which these data reflect prevalence of active syphilis infection varies by site. Further details from each site, including prevalence of high titer infections ( $> 1:8$ ) which may be more indicative of active infection, are provided in *Centers for Disease Control and Prevention. Sexually Transmitted Disease Surveillance 2001 Supplement: Syphilis Surveillance Annual Report 2001*. Atlanta, GA: U.S. Department of Health and Human Services (in press).

Prevalence data for region- and state-specific figures were published with permission from the Regional Infertility Prevention Program, selected state STD prevention programs, the National Job Training Program, U.S. Department of Labor, and the Indian Health Service.

## **Definition of HHS Regions**

The ten Health and Human Services (HHS) regions referred to in the text and figures are as follows: Region I = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont; Region II = New Jersey, New York, Puerto Rico, and U.S. Virgin Islands; Region III = Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia; Region IV = Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee; Region V = Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin; Region VI = Arkansas, Louisiana, New Mexico, Oklahoma, and Texas; Region VII = Iowa, Kansas, Missouri, and Nebraska; Region VIII = Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming; Region IX = Arizona, California, Guam, Hawaii, and Nevada; and Region X = Alaska, Idaho, Oregon, and Washington.

## **Definition of IHS Areas**

The 12 Indian Health Service (IHS) Areas referred to in the text and figures are as follows, with overlap in some states: Aberdeen Area (Iowa, North Dakota, Nebraska, and South Dakota); Alaska Area (Alaska); Albuquerque Area (Colorado and New Mexico); Bemidji Area (Illinois, Indiana, Michigan, Minnesota, and Wisconsin); Billings Area (Montana and Wyoming); California Area (California); Nashville Area (Alabama, Connecticut, Florida, Louisiana, Maine, Maryland, Massachusetts, Mississippi, New York, North Carolina, Rhode Island, South Carolina, and Tennessee); Navajo Area (Arizona, New Mexico, and Utah); Oklahoma City Area (Kansas, Oklahoma, and Texas); Phoenix Area (Arizona, Nevada and Utah); Portland Area (Idaho, Oregon, and Washington); and Tucson Area (Arizona).

## **Other Data Sources**

The information on the number of initial visits to private physicians' offices for sexually transmitted diseases was based on analysis of data from the National Disease and Therapeutic Index (NDTI) (machine-readable files or summary statistics for years 1966-2001). For more information on this

database, contact IMS Health, 660 W. Germantown Pike, Plymouth Meeting, PA 19462; Telephone: (800) 523-5333.

The information on patients hospitalized for pelvic inflammatory disease or ectopic pregnancy was based on analysis of data from the National Hospital Discharge Survey (machine-readable files for years 1980-1999), an ongoing nationwide sample survey of short-stay hospitals in the United States, conducted by the National Center for Health Statistics. For more information, see Graves EJ; 1988 Summary: National Hospital Discharge Survey; Advance data No. 185; Hyattsville (MD): National Center for Health Statistics, 1990. The National Hospital Ambulatory Medical Care Survey (NHAMCS-ER) (machine-readable files for 1995-1999) was used to obtain estimates of the number of emergency room visits for pelvic inflammatory disease among women ages 15 to 44. Data on HSV-2 seroprevalence among the non-institutionalized U.S. population were obtained from the National Health and Nutrition Examination Survey (NHANES). The estimates generated using these data sources (NHDS, NHAMCS, and NHANES) are based on statistical surveys and therefore have sampling variability associated with the estimates.

## Healthy People Year 2010 Objectives

In January 2000, CDC released objectives for Healthy People 2010 (HP2010).<sup>6</sup> The year 2010 rate objectives for the diseases addressed in this report are: primary and secondary syphilis—0.2 case per 100,000 population; congenital syphilis—1.0 case per 100,000 live births; and gonorrhea—19.0 cases per 100,000 population. An additional target established in the HP2010 objectives is to reduce the *Chlamydia trachomatis* test positivity to 3.0% among females aged 15 to 24 years who attend family planning and STD clinics and among males aged 15 to 24 who attend STD clinics (Table A1).

---

<sup>1</sup> Centers for Disease Control and Prevention. Case Definitions for infectious conditions under public health surveillance, 1997. *MMWR* 1997;46(No. RR-10;1).

<sup>2</sup> Kaufman RE, Jones, OG, Blount, JH, Wiesner PJ. Questionnaire survey of reported early congenital syphilis: problems in diagnosis, prevention, and treatment. *Sex Transm Dis* 1977;4:135-9.

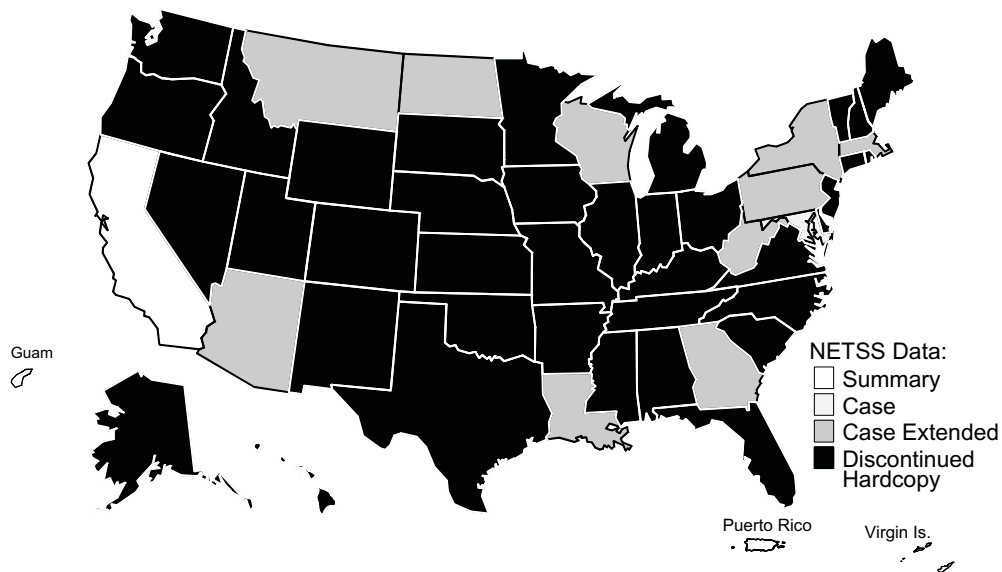
<sup>3</sup> Webster Dicker L, Mosure DJ, Levine WC, Black CM, Berman SM. The impact of switching laboratory tests on reported trends in *Chlamydia trachomatis* infections. *Am J Epidemiol* 2000;151:430-435.

<sup>4</sup> Newhall WJ, DeLisle, S, Fine D, et al. Head-to-head evaluation of five different non-culture chlamydia tests relative to a quality-assured culture standard. *Sex Transm Dis* 1994;21:S165-6.

<sup>5</sup> Centers for Disease Control and Prevention. Screening tests to detect *Chlamydia trachomatis* and *Neisseria gonorrhea* infections-2002 (in press).

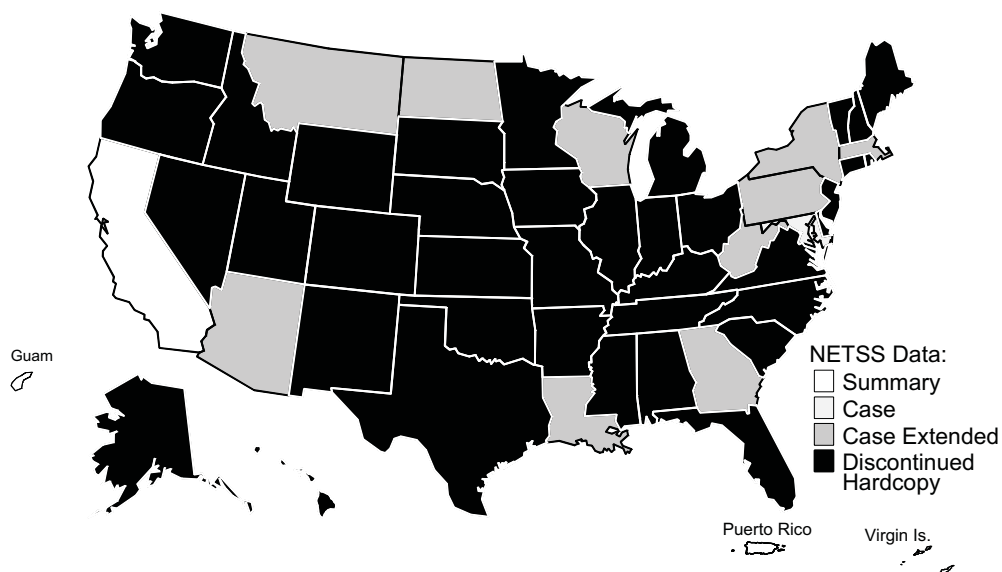
<sup>6</sup> U.S. Department of Health and Human Services. *Healthy People 2010*. 2nd ed. With Understanding and Improving Health and Objectives for Improving Health. 2 vols. Washington, DC: U.S. Government Printing Office, November 2000

**Figure A1. Chlamydia — National Electronic Telecommunications System for Surveillance (NETSS) transmission status by state, 2001**

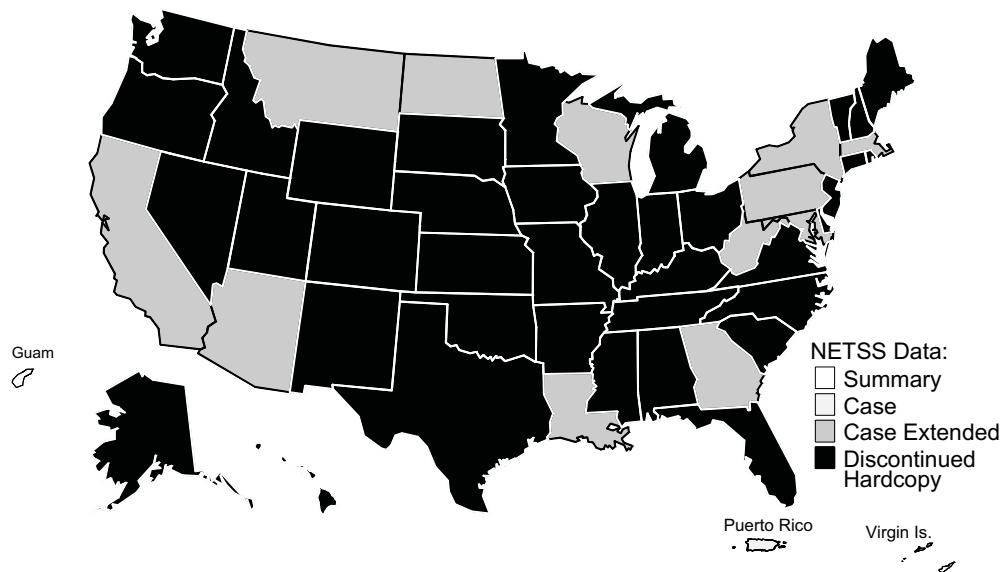


Note: Unless noted, large city projects transmit records in the same format as states. San Francisco and Los Angeles projects report case extended chlamydia records to NETSS.

**Figure A2. Gonorrhea — National Electronic Telecommunications System for Surveillance (NETSS) transmission status by state, 2001**



Note: Unless noted, large city projects transmit records in the same format as states. San Francisco and Los Angeles projects report case extended gonorrhea records to NETSS.



Note: Unless noted, large city projects transmit records in the same format as states.

**Table A1. Healthy People 2010 Sexually Transmitted Diseases Objective Status**

| <i>Objective</i> |                                                                                                                                                                                            | <i>Baseline Year</i> | <i>Baseline</i> | <i>1997</i> | <i>1998</i> | <i>1999</i> | <i>2000</i> | <i>2001</i> | <i>2010 Objective</i> |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-----------------------|
| <b>25-1</b>      | <b>Reduce the proportion of adolescents and young adults with <i>Chlamydia trachomatis</i> infections</b>                                                                                  |                      |                 |             |             |             |             |             |                       |
|                  | a. Females aged 15 to 24 years attending family planning clinics                                                                                                                           | 1997                 | 5.0%            | 5.0%*       | 6.1%*       | 5.6%*       | 5.9%*       | 5.8*        | 3.0%                  |
|                  | b. Females aged 15 to 24 years attending STD clinics                                                                                                                                       | 1997                 | 12.2%           | 12.2%*      | 13.5%*      | 13.7%*      | 13.5%*      | 13.3*       | 3.0%                  |
|                  | c. Males aged 15 to 24 years attending STD clinics                                                                                                                                         | 1997                 | 15.7%           | 15.7%*      | 16.9%*      | 17.0%*      | 16.4%*      | 17.0*       | 3.0%                  |
| <b>25-2</b>      | <b>Reduce gonorrhea (cases per 100,000 population)</b>                                                                                                                                     | 1997                 | 123.0           | 122.4       | 131.9       | 132.3       | 129.0       | 128.5       | 19.0                  |
| <b>25-3</b>      | <b>Eliminate sustained domestic transmission of primary and secondary syphilis (cases per 100,000 population)</b>                                                                          | 1997                 | 3.2             | 3.2         | 2.6         | 2.4         | 2.1         | 2.2         | 0.2                   |
| <b>25-4</b>      | <b>Reduce the proportion of adults aged 20 to 29 years with genital herpes infection</b>                                                                                                   | 1988-94              | 17.0%           | —           | —           | —           | —           |             | 14.0%                 |
| <b>25-6</b>      | <b>Reduce the proportion of females aged 15 to 44 years who have ever required treatment for pelvic inflammatory disease (PID)</b>                                                         | 1995                 | 8.0%            | —           | —           | —           | —           |             | 5.0%                  |
| <b>25-7</b>      | <b>Reduce the proportion of childless females with fertility problems who have had a sexually transmitted disease or who have required treatment for pelvic inflammatory disease (PID)</b> | 1995                 | 27.0%           | —           | —           | —           | —           |             | 15.0%                 |
| <b>25-9</b>      | <b>Reduce congenital syphilis (cases per 100,000 live births)</b>                                                                                                                          | 1997                 | 27.0            | 27.8        | 21.3        | 14.5        | 14.0        | 11.1        | 1.0                   |

—Data not available.

NOTE: Data include revisions and, therefore, may differ from data previously published in these reports and other publications.

#### Data Sources

Objective number      Data Source

25-1                      STD Surveillance System, CDC, NCHSTP.  
25-2                      STD Surveillance System, CDC, NCHSTP.  
25-3                      STD Surveillance System, CDC, NCHSTP.  
25-4                      National Health and Nutrition Examination Survey (NHANES), CDC, NCHS.  
25-6                      National Survey of Family Growth (NSFG), CDC, NCHS.  
25-7                      National Survey of Family Growth (NSFG), CDC, NCHS.  
25-9                      STD Surveillance System, CDC, NCHSTP.

\*Positivity not adjusted for changes in laboratory test method in 1997-2001 and associated increases in test sensitivity.

NOTE: Healthy People 2010 developmental objectives are not addressed in this report.



# STD Surveillance Case Definitions

## PART 1. CASE DEFINITIONS FOR NATIONALLY NOTIFIABLE INFECTIOUS DISEASES

### **Chancroid (Revised 9/96)**

#### **Clinical description**

A sexually transmitted disease characterized by painful genital ulceration and inflammatory inguinal adenopathy. The disease is caused by infection with *Haemophilus ducreyi*.

#### **Laboratory criteria for diagnosis**

- Isolation of *H. ducreyi* from a clinical specimen

#### **Case classification**

*Probable*: a clinically compatible case with both a) no evidence of *Treponema pallidum* infection by darkfield microscopic examination of ulcer exudate or by a serologic test for syphilis performed  $\geq 7$  days after onset of ulcers and b) either a clinical presentation of the ulcer(s) not typical of disease caused by herpes simplex virus (HSV) or a culture negative for HSV.

*Confirmed*: a clinically compatible case that is laboratory confirmed

### **Chlamydia trachomatis, Genital Infections (Revised 9/96)**

#### **Clinical description**

Infection with *Chlamydia trachomatis* may result in urethritis, epididymitis, cervicitis, acute salpingitis, or other syndromes when sexually transmitted; however, the infection is often asymptomatic in women. Perinatal infections may result in inclusion conjunctivitis and pneumonia in newborns. Other syndromes caused by *C. trachomatis* include lymphogranuloma venereum (see Lymphogranuloma Venereum) and trachoma.

#### **Laboratory criteria for diagnosis**

- Isolation of *C. trachomatis* by culture or
- Demonstration of *C. trachomatis* in a clinical specimen by detection of antigen or nucleic acid

#### **Case classification**

*Confirmed*: a case that is laboratory confirmed

### **Gonorrhea (Revised 9/96)**

#### **Clinical description**

A sexually transmitted infection commonly manifested by urethritis, cervicitis, or salpingitis. Infection may be asymptomatic.

#### **Laboratory criteria for diagnosis**

- Isolation of typical gram-negative, oxidase-positive diplococci (presumptive *Neisseria gonorrhoeae*) from a clinical specimen, or

- Demonstration of *N. gonorrhoeae* in a clinical specimen by detection of antigen or nucleic acid, or
- Observation of gram-negative intracellular diplococci in a urethral smear obtained from a male

### **Case classification**

*Probable:* a) demonstration of gram-negative intracellular diplococci in an endocervical smear obtained from a female or b) a written morbidity report of gonorrhea submitted by a physician

*Confirmed:* a case that is laboratory confirmed

## **Syphilis (All Definitions Revised 9/96)**

Syphilis is a complex sexually transmitted disease that has a highly variable clinical course. Classification by a clinician with expertise in syphilis may take precedence over the following case definitions developed for surveillance purposes.

### **Syphilis, primary**

#### *Clinical description*

A stage of infection with *Treponema pallidum* characterized by one or more chancres (ulcers); chancres might differ considerably in clinical appearance.

#### *Laboratory criteria for diagnosis*

- Demonstration of *T. pallidum* in clinical specimens by darkfield microscopy, direct fluorescent antibody (DFA-TP), or equivalent methods

#### *Case classification*

*Probable:* a clinically compatible case with one or more ulcers (chancres) consistent with primary syphilis and a reactive serologic test (nontreponemal: Venereal Disease Research Laboratory [VDRL] or rapid plasma reagin [RPR]; treponemal: fluorescent treponemal antibody absorbed [FTA-ABS] or microhemagglutination assay for antibody to *T. pallidum* [MHA-TP])

*Confirmed:* a clinically compatible case that is laboratory confirmed

### **Syphilis, secondary**

#### *Clinical description*

A stage of infection caused by *T. pallidum* and characterized by localized or diffuse mucocutaneous lesions, often with generalized lymphadenopathy. The primary chancre may still be present.

#### *Laboratory criteria for diagnosis*

- Demonstration of *T. pallidum* in clinical specimens by darkfield microscopy, DFATP, or equivalent methods

#### *Case classification*

*Probable:* a clinically compatible case with a nontreponemal (VDRL or RPR) titer  $\geq 4$

*Confirmed:* a clinically compatible case that is laboratory confirmed

### ***Syphilis, latent***

#### *Clinical description*

A stage of infection caused by *T. pallidum* in which organisms persist in the body of the infected person without causing symptoms or signs. Latent syphilis is subdivided into early, late, and unknown categories based on the duration of infection.

#### *Case classification*

*Probable:* no clinical signs or symptoms of syphilis and the presence of one of the following:

- No past diagnosis of syphilis, a reactive nontreponemal test (i.e., VDRL or RPR), and a reactive treponemal test (i.e., FTA-ABS or MHA-TP)
- A past history of syphilis therapy and a current nontreponemal test titer demonstrating fourfold or greater increase from the last nontreponemal test titer

### ***Syphilis, early latent***

#### *Clinical description*

A subcategory of latent syphilis. When initial infection has occurred within the previous 12 months, latent syphilis is classified as early latent.

#### *Case classification*

*Probable:* latent syphilis (see Syphilis, latent) in a person who has evidence of having acquired the infection within the previous 12 months based on one or more of the following criteria:

- Documented seroconversion or fourfold or greater increase in titer of a nontreponemal test during the previous 12 months
- A history of symptoms consistent with primary or secondary syphilis during the previous 12 months
- A history of sexual exposure to a partner who had confirmed or probable primary or secondary syphilis or probable early latent syphilis (documented independently as duration <1 year)
- Reactive nontreponemal and treponemal tests from a person whose only possible exposure occurred within the preceding 12 months

### ***Syphilis, late latent***

#### *Clinical description*

A subcategory of latent syphilis. When initial infection has occurred >1 year previously, latent syphilis is classified as late latent.

#### *Case classification*

*Probable:* latent syphilis (see Syphilis, latent) in a patient who has no evidence of having acquired the disease within the preceding 12 months (see Syphilis, early latent) and whose age and titer do not meet the criteria specified for latent syphilis of unknown duration.

### ***Syphilis, latent, of unknown duration***

#### *Clinical description*

A subcategory of latent syphilis. When the date of initial infection cannot be established as having occurred within the previous year and the patient's age and titer meet criteria described below, latent syphilis is classified as latent syphilis of unknown duration.

### *Case classification*

*Probable:* latent syphilis (see Syphilis, latent) that does not meet the criteria for early latent syphilis, and the patient is aged 13–35 years and has a nontreponemal titer  $\geq 32$

## **Neurosyphilis**

### *Clinical description*

Evidence of central nervous system infection with *T. pallidum*

### *Laboratory criteria for diagnosis*

- A reactive serologic test for syphilis and reactive VDRL in cerebrospinal fluid (CSF)
- Case classification

### *Case classification*

*Probable:* syphilis of any stage, a negative VDRL in CSF, and both the following:

- Elevated CSF protein or leukocyte count in the absence of other known causes of these abnormalities
- Clinical symptoms or signs consistent with neurosyphilis without other known causes for these clinical abnormalities

*Confirmed:* syphilis of any stage that meets the laboratory criteria for neurosyphilis

## **Syphilis, late, with clinical manifestations other than neurosyphilis (late benign syphilis and cardiovascular syphilis)**

### *Clinical description*

Clinical manifestations of late syphilis other than neurosyphilis may include inflammatory lesions of the cardiovascular system, skin, and bone. Rarely, other structures (e.g., the upper and lower respiratory tracts, mouth, eye, abdominal organs, reproductive organs, lymph nodes, and skeletal muscle) may be involved. Late syphilis usually becomes clinically manifest only after a period of 15–30 years of untreated infection.

### *Laboratory criteria for diagnosis*

Demonstration of *T. pallidum* in late lesions by fluorescent antibody or special stains (although organisms are rarely visualized in late lesions)

### *Case classification*

*Probable:* characteristic abnormalities or lesions of the cardiovascular system, skin, bone, or other structures with a reactive treponemal test, in the absence of other known causes of these abnormalities, and without CSF abnormalities and clinical symptoms or signs consistent with neurosyphilis

*Confirmed:* a clinically compatible case that is laboratory confirmed

### *Comment*

Analysis of CSF for evidence of neurosyphilis is necessary in the evaluation of late syphilis with clinical manifestations.

## **Syphilitic Stillbirth**

### *Clinical description*

A fetal death that occurs after a 20-week gestation or in which the fetus weighs >500 g and the mother had untreated or inadequately treated\* syphilis at delivery

### *Comment*

For reporting purposes, syphilitic stillbirths should be reported as cases of congenital syphilis.

## **Syphilis, Congenital (Revised 9/96)**

### ***Clinical description***

A condition caused by infection in utero with *Treponema pallidum*. A wide spectrum of severity exists, and only severe cases are clinically apparent at birth. An infant or child (aged <2 years) may have signs such as hepatosplenomegaly, rash, condyloma lata, snuffles, jaundice (nonviral hepatitis), pseudoparalysis, anemia, or edema (nephrotic syndrome and/or malnutrition). An older child may have stigmata (e.g., interstitial keratitis, nerve deafness, anterior bowing of shins, frontal bossing, mulberry molars, Hutchinson teeth, saddle nose, rhagades, or Clutton joints).

### ***Laboratory criteria for diagnosis***

Demonstration of *T. pallidum* by darkfield microscopy, fluorescent antibody, or other specific stains in specimens from lesions, placenta, umbilical cord, or autopsy material

### ***Case classification***

*Probable:* a condition affecting an infant whose mother had untreated or inadequately treated\* syphilis at delivery, regardless of signs in the infant, or an infant or child who has a reactive treponemal test for syphilis and any one of the following:

- Any evidence of congenital syphilis on physical examination
- Any evidence of congenital syphilis on radiographs of long bones
- A reactive cerebrospinal fluid (CSF) venereal disease research laboratory (VDRL)
- An elevated CSF cell count or protein (without other cause)
- A reactive fluorescent treponemal antibody absorbed—19S-IgM antibody test or IgM enzyme-linked immunosorbent assay

*Confirmed:* a case that is laboratory confirmed

### ***Comment***

Congenital and acquired syphilis may be difficult to distinguish when a child is seropositive after infancy. Signs of congenital syphilis may not be obvious, and stigmata may not yet have developed. Abnormal values for CSF VDRL, cell count, and protein, as well as IgM antibodies, may be found in either congenital or acquired syphilis. Findings on radiographs of long bones may help because radiographic changes in the metaphysis and epiphysis are considered classic signs of congenitally acquired syphilis. The decision may ultimately be based on maternal history and clinical judgment. In a young child, the possibility of sexual abuse should be considered as a cause of acquired rather than congenital syphilis, depending on the clinical picture. For reporting purposes, congenital syphilis includes cases of congenitally acquired syphilis among infants and children as well as syphilitic stillbirths.

\*Inadequate treatment consists of any nonpenicillin therapy or penicillin administered <30 days before delivery.

## **PART 2. CASE DEFINITIONS FOR NON-NOTIFIABLE INFECTIOUS DISEASES**

### **Genital Herpes (Herpes Simplex Virus) (Revised 9/96)**

#### ***Clinical description***

A condition characterized by visible, painful genital or anal lesions

#### ***Laboratory criteria for diagnosis***

- Isolation of herpes simplex virus from cervix, urethra, or anogenital lesion, or
- Demonstration of virus by antigen detection technique in clinical specimens from cervix, urethra, or anogenital lesion, or
- Demonstration of multinucleated giant cells on a Tzanck smear of scrapings from an anogenital lesion

#### ***Case classification***

*Probable:* a clinically compatible case (in which primary and secondary syphilis have been excluded by appropriate serologic tests and darkfield microscopy, when available) with either a diagnosis of genital herpes based on clinical presentation (without laboratory confirmation) or a history of one or more previous episodes of similar genital lesions

*Confirmed:* a clinically compatible case that is laboratory confirmed

#### ***Comment***

Genital herpes should be reported only once per patient. The first diagnosis for a patient with no previous diagnosis should be reported.

### **Genital Warts (Revised 9/96)**

#### ***Clinical description***

An infection characterized by the presence of visible, exophytic (raised) growths on the internal or external genitalia, perineum, or perianal region

#### ***Laboratory criteria for diagnosis***

- Histopathologic changes characteristic of human papillomavirus infection in specimens obtained by biopsy or exfoliative cytology or
- Demonstration of virus by antigen or nucleic acid detection in a lesion biopsy

#### ***Case classification***

*Probable:* a clinically compatible case without histopathologic diagnosis and without microscopic or serologic evidence that the growth is the result of secondary syphilis

*Confirmed:* a clinically compatible case that is laboratory confirmed

#### ***Comment***

Genital warts should be reported only once per patient. The first diagnosis for a patient with no previous diagnosis should be reported.

### **Granuloma Inguinale**

#### ***Clinical description***

A slowly progressive ulcerative disease of the skin and lymphatics of the genital and perianal area caused by infection with *Calymmatobacterium granulomatis*. A clinically compatible case would have one or more painless or minimally painful granulomatous lesions in the anogenital area.

**Laboratory criteria for diagnosis**

- Demonstration of intracytoplasmic Donovan bodies in Wright or Giemsa-stained smears or biopsies of granulation tissue

**Case classification**

*Confirmed:* a clinically compatible case that is laboratory confirmed

**Lymphogranuloma Venereum****Clinical description**

Infection with L1, L2, or, L3 serovars of *Chlamydia trachomatis* may result in a disease characterized by genital lesions, suppurative regional lymphadenopathy, or hemorrhagic proctitis. The infection is usually sexually transmitted.

**Laboratory criteria for diagnosis**

- Isolation of *C. trachomatis*, serotype L1, L2, or L3 from clinical specimen, or
- Demonstration by immunofluorescence of inclusion bodies in leukocytes of an inguinal lymph node (bubo) aspirate, or
- Positive microimmunofluorescent serologic test for a lymphogranuloma venereum strain of *C. trachomatis*

**Case classification**

*Probable:* a clinically compatible case with one or more tender fluctuant inguinal lymph nodes or characteristic proctogenital lesions with supportive laboratory findings of a single *C. trachomatis* complement fixation titer of >64

*Confirmed:* a clinically compatible case that is laboratory confirmed

**Mucopurulent Cervicitis (Revised 9/96)****Clinical description**

Cervical inflammation that is not the result of infection with *Neisseria gonorrhoeae* or *Trichomonas vaginalis*. Cervical inflammation is defined by the presence of one of the following criteria:

- Mucopurulent secretion (from the endocervix) that is yellow or green when viewed on a white, cotton-tipped swab (positive swab test)
- Induced endocervical bleeding (bleeding when the first swab is placed in the endocervix)

**Laboratory criteria for diagnosis**

- No evidence of *N. gonorrhoeae* by culture, Gram stain, or antigen or nucleic acid detection, and no evidence of *T. vaginalis* on wet mount

**Case classification**

*Confirmed:* a clinically compatible case in a female who does not have either gonorrhea or trichomoniasis

**Comment**

Mucopurulent cervicitis (MPC) is a clinical diagnosis of exclusion. The syndrome may result from infection with any of several agents (see *Chlamydia trachomatis*, Genital Infections). If gonorrhea, trichomoniasis, and chlamydia are excluded, a clinically compatible illness should be classified as

MPC. An illness in a female that meets the case definition of MPC and *C. trachomatis* infection should be classified as chlamydia.

### **Nongonococcal Urethritis (Revised 9/96)**

#### **Clinical description**

Urethral inflammation that is not the result of infection with *Neisseria gonorrhoeae*. Urethral inflammation may be diagnosed by the presence of one of the following criteria:

- A visible abnormal urethral discharge, or
- A positive leukocyte esterase test from a male aged <60 years who does not have a history of kidney disease or bladder infection, prostate enlargement, urogenital anatomic anomaly, or recent urinary tract instrumentation, or
- Microscopic evidence of urethritis ( $\geq 5$  white blood cells per high-power field) on a Gram stain of a urethral smear

#### **Laboratory criteria for diagnosis**

- No evidence of *N. gonorrhoeae* infection by culture, Gram stain, or antigen or nucleic acid detection

#### **Case classification**

*Confirmed*: a clinically compatible case in a male in whom gonorrhea is not found, either by culture, Gram stain, or antigen or nucleic acid detection

#### **Comment**

Nongonococcal urethritis (NGU) is a clinical diagnosis of exclusion. The syndrome may result from infection with any of several agents (see *Chlamydia trachomatis*, Genital Infection). If gonorrhea and chlamydia are excluded, a clinically compatible illness should be classified as NGU. An illness in a male that meets the case definition of NGU and *C. trachomatis* infection should be classified as chlamydia.

### **Pelvic Inflammatory Disease (Revised 9/96)**

#### **Clinical case definition**

A clinical syndrome resulting from the ascending spread of microorganisms from the vagina and endocervix to the endometrium, fallopian tubes, and/or contiguous structures. In a female who has lower abdominal pain and who has not been diagnosed as having an established cause other than pelvic inflammatory disease (PID) (e.g., ectopic pregnancy, acute appendicitis, and functional pain), all the following clinical criteria must be present:

- Lower abdominal tenderness, and
- Tenderness with motion of the cervix, and
- Adnexal tenderness

In addition to the preceding criteria, at least one of the following findings must also be present:

- Meets the surveillance case definition of *C. trachomatis* infection or gonorrhea
- Temperature  $> 100.4$  F ( $> 38.0$  C)
- Leukocytosis  $> 10,000$  white blood cells/mm<sup>3</sup>
- Purulent material in the peritoneal cavity obtained by culdocentesis or laparoscopy

- Pelvic abscess or inflammatory complex detected by bimanual examination or by sonography
- Patient is a sexual contact of a person known to have gonorrhea, chlamydia, or nongonococcal urethritis

***Case classification***

*Confirmed:* a case that meets the clinical case definition

***Comment***

For reporting purposes, a clinician's report of PID should be counted as a case.

## STD Project Directors, STD Program Managers, and State and Territorial Epidemiologists

We gratefully acknowledge the contributions of state STD project directors, STD program managers, and state and territorial epidemiologists to this report. The persons listed were in the positions shown as of August 2, 2002.

|                                       | STD Project Directors  | STD Program Managers    | State Epidemiologists  |
|---------------------------------------|------------------------|-------------------------|------------------------|
| Alabama                               | Charles H. Woernle     | Mike O'Cain             | J.P. Lofgren           |
| Alaska                                | Allison Bell           | Donna Cecere            | John P. Middaugh       |
| Arizona                               | Vacant                 | Frank Slaughter         | Victorio Vaz           |
| Arkansas                              | Renee Patrick          | Kaleemulla Sayyed       | Thomas McChesney       |
| California                            | Gail Bolan             | Romni Neiman            | Duc J. Vugia           |
| Los Angeles                           | Peter Kerndt           | Kerry Kenney            | Duc J. Vugia           |
| San Francisco                         | Jeffrey Klausner       | Wendy Wolf              | Duc J. Vugia           |
| Colorado                              | Ellen Mangione         | Terry Tiller-Taylor     | Richard E. Hoffman     |
| Connecticut                           | James L. Hadler        | Heidi Jenkins           | James L. Hadler        |
| Delaware                              | James C. Welch         | Catherine Mosley        | A. LeRoy Hathcock      |
| District of Columbia                  | Karen Berry            | John Heath              | John Davis-Cole        |
| Florida                               | Landis Crockett        | Karla Schmitt           | Steve Wiersma          |
| Georgia                               | Kathleen Toomey        | Veronica Hartwell       | Paul Blake             |
| Hawaii                                | Peter Whitticar        | Roy Ohye                | Paul Effler            |
| Idaho                                 | Russell Duke           | Anne Williamson         | Christine G. Hahn      |
| Illinois                              | Charlie Rabins         | Charlie Rabins          | Mark Dworkin           |
| Chicago                               | Chris Brown            | Janice M. Johnson       | Mark Dworkin           |
| Indiana                               | Michael Butler         | Jim Beall               | Robert Teclaw          |
| Iowa                                  | Julie McMahon          | John Katz               | Patricia Quinlisk      |
| Kansas                                | Sharon Patnode         | R. Allen Mayer          | Gianfranco Pezzino     |
| Kentucky                              | Barry Wainscott        | David Raines            | Steven Englender       |
| Louisiana                             | Jim Scioneaux          | Dennis Dorst            | Raoult Ratard          |
| Maine                                 | Sally Lou Patterson    | Bob Woods               | Kathleen F. Gensheimer |
| Maryland                              | Nancy Hoyt             | Scott Tulloch           | David Blythe           |
| Baltimore                             | Ricardo Branic         | Glen Oltoff             | David Blythe           |
| Massachusetts                         | Paul Etkind            | Paul Etkind             | Alfred DeMaria         |
| Michigan                              | Loretta Davis-Satterla | Mark A. Miller          | Matthew L. Boulton     |
| Minnesota                             | Julia Ashley           | Julia Ashley            | Harry Hull             |
| Mississippi                           | Mary Jane Coleman      | Mike Cassell            | Mary Currier           |
| Missouri                              | Mary Menges            | Nyla DeArmitt           | Eduardo Simoes         |
| Montana                               | Terry Krantz           | Bruce Deitle            | Todd A. Damrow         |
| Nebraska                              | Christine M. Newlon    | Dan Harrah              | Thomas J. Safraneck    |
| Nevada                                | Yvonne Sylva           | Vener DeFriez           | Randall Todd           |
| New Hampshire                         | David R. Ayotte        | David R. Ayotte         | Jesse Greenblatt       |
| New Jersey                            | Janet DeGraaf          | Jerry Carolina          | Eddy A. Bresnitz       |
| New Mexico                            | Susan Eastman          | Al Chowning             | C. Mack Sewell         |
| New York                              | F. Bruce Coles         | Steve Brooks            | Perry F. Smith         |
| New York City                         | Susan Blank            | Steve Rubin             | Perry F. Smith         |
| North Carolina                        | Evelyn M. Foust        | Evelyn M. Foust         | J. Steven Cline        |
| North Dakota                          | Larry Shireley         | Kirby Kruger            | Larry Shireley         |
| Ohio                                  | J. Nick Baird          | Timothy Bahns           | Forrest W. Smith       |
| Oklahoma                              | William R. Pierson     | Mark Turner             | Michael Crutcher       |
| Oregon                                | Mark Loveless          | Jan Karius              | Melvin Kohn            |
| Pennsylvania                          | Weston Ruhrig          | Steve Kowalewski        | James T. Rankin, Jr.   |
| Philadelphia                          | Robert Levenson        | Martin Goldberg         | James T. Rankin, Jr.   |
| Rhode Island                          | Larry Reynolds         | Larry Reynolds          | Utpala Bandy           |
| South Carolina                        | Lynda Kettinger        | Lynda Kettinger         | James Jerry Gibson     |
| South Dakota                          | Laurie Gill            | David Morgan            | Lon Kightlinger        |
| Tennessee                             | Keith Williams         | Drema Mace              | Allen Craig            |
| Texas                                 | Casey S. Blass         | Casey S. Blass          | Dennis M. Perrotta     |
| Utah                                  | Teresa Garrett         | John Contreras          | Robert T. Rolfs        |
| Vermont                               | Peter D. Galbraith     | Marilyn Richards-Proulx | Ann Finger             |
| Virginia                              | Casey Riley            | Casey Riley             | Robert B. Stroube      |
| Washington                            | Larry Klopfenstein     | Larry Klopfenstein      | Jo Hofmann (acting)    |
| West Virginia                         | Loretta E. Haddy       | Margaret Taylor         | Loretta E. Haddy       |
| Wisconsin                             | Herb Bostrom           | Anthony Wade            | Henry Anderson         |
| Wyoming                               | Jimm Murray            | Roger Burr              | Karl Musgrave          |
| American Samoa                        | Joseph Tufa            | Tai Ripley              | Joseph Tufa            |
| Federated States of<br>Micronesia     | Eliuel K. Pretrick     | Kidsen K. Iohp          | Jean Paul Chaine       |
| Government of the<br>Marshall Islands | Donald F. Copelle      | Altina Anien            | Tom D. Kijiner         |
| Guam                                  | Dennis Rodriguez       | Bernadette Schumann     | Robert L. Haddock      |
| Puerto Rico                           | Angeles Rodriguez      | Trinidad Garcia         | Carmen Deseda          |
| Republic of Palau                     | Uedo Masao             | Caleb T. Otto           | Jill McCready          |
| Virgin Islands                        | Mavis Matthews         | Lucien Moolenaar        | Vacant                 |