

Sexually Transmitted Disease in the City of St. Louis 2004-2008

City of St Louis
Department of Health
June 2009





Sources

Prepared by:

City of St. Louis Department of Health

Center for Health Information, Planning, & Research

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St. Louis, MO 63178

314-612-5100

Data Sources: Missouri Department of Health and Senior Services STD-MIS
(unless otherwise noted)

Questions regarding STD/HIV testing and counseling should contact:

Center for HIV, STD, and Hepatitis Services

1-888-291-2437

314-612-5188 (Health Department)

314-879-6467 (ConnectCare Clinic)

Questions regarding this report may be directed to:

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Epidemiologist

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The Cases

- 71.1% of Chlamydia and 63.4% of Gonorrhea cases in St. Louis City are among 15-24 year olds in 2008
- Over 90% of Chlamydia and Gonorrhea cases occur among African Americans (**taken among total cases with known race**)
- Future infertility is a serious concern for untreated STD/STI infection in youth and young adult age groups in the city



City of St. Louis – Department of Health Response (DOH)

- STD Strategic Plan with neighboring communities
- Successful ‘Body & Soul’ Teen education and outreach workshop in December 2007 and April 2009
- Establishment of the Youth Empowerment Advocates for Health Program
- Testing and counseling staff provide educational presentations at area schools



DOH Response cont.

- Increased testing through partnering with ASC Cares Mobile Testing Unit, the Juvenile Detention Center, and the Minimum Security Institution
- Community collaboration on the new teen oriented drop in clinic 'The Spot'
- Partnering with People's clinic for counseling and testing and disease investigation training
- Training city youth in the B.A.R.T. curriculum (Becoming a Responsible Teen), Summer 2009



Future Programming

- Expanding 'Body & Soul' workshops to multiple sites throughout the city
- Formation of a youth task force to develop and deliver STD and HIV education to peers under DOH personnel supervision



Strategic Goals

- Increase STD testing and treatment by determining gaps in the community
- Prevent STD infection through targeted education and outreach
- Develop a comprehensive STD surveillance system
- Sustain working evidence-based interventions
- Evaluate progress by evaluating test statistics from the state and private labs
- Identify at-risk populations through data analysis



City of St. Louis National STD Rankings Among Leading U.S. Counties and Cities, 1997-2004[†]

Year	Chlamydia	Gonorrhea	Primary & Secondary Syphilis	*Congenital Syphilis
	<i>Rank</i>	<i>Rank</i>	<i>Rank</i>	<i>Rank</i>
1997	4	4	9	-
1998	3	1	7	22
1999	2	3	8	4
2000	6	4	26	27
2001	3	2	23	10
2002	5	1	29	-
2003	5	1	23	-
2004	2	1	5	-

[†] Rankings prior to 2005 were based on rate per 100,000.

*Congenital Syphilis has not been ranked since 2001

Source: Centers for Disease Control and Prevention – Annual STD Surveillance Summaries as Published



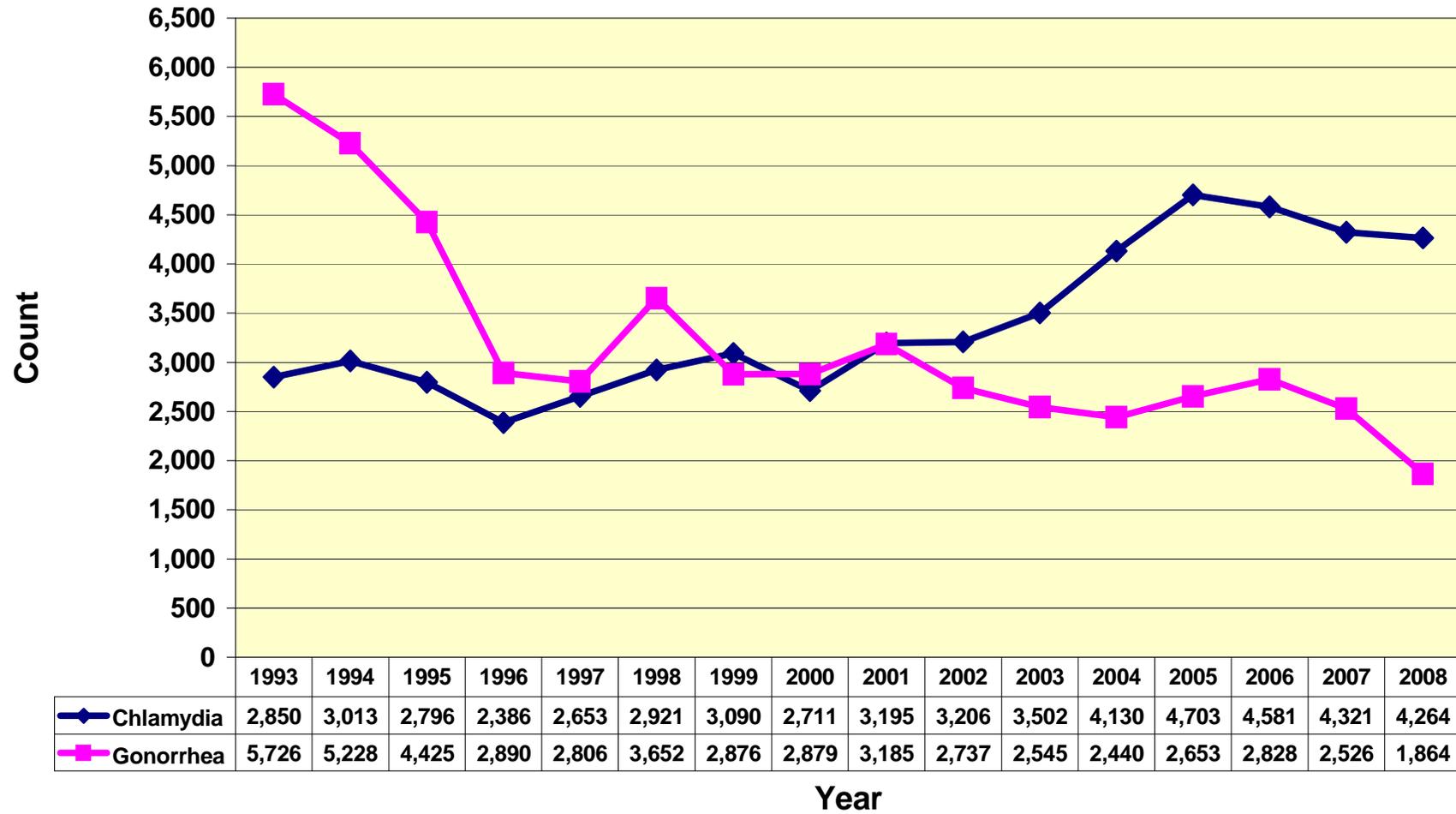
St. Louis Metropolitan Statistical Area STD Rankings Among Selected *MSAs, 2005-2008

Year	Chlamydia		Gonorrhea		Primary & Secondary Syphilis	
	<i>Rate Rank</i>	<i>Count Rank</i>	<i>Rate Rank</i>	<i>Count Rank</i>	<i>Rate Rank</i>	<i>Count Rank</i>
<i>2005</i>	5	10	5	8	38	31
<i>2006</i>	6	12	5	9	36	31
<i>2007</i>	8	16	8	11	27	23
<i>2008</i>	11	14	14	12	21	27

*Metropolitan Statistical Areas were selected based on the largest population according to the 2000 U.S. Census, Definitions for MSAs are issued by the Office of Management and Budget (OMB) to be used in presentation of statistics by agencies of the federal government

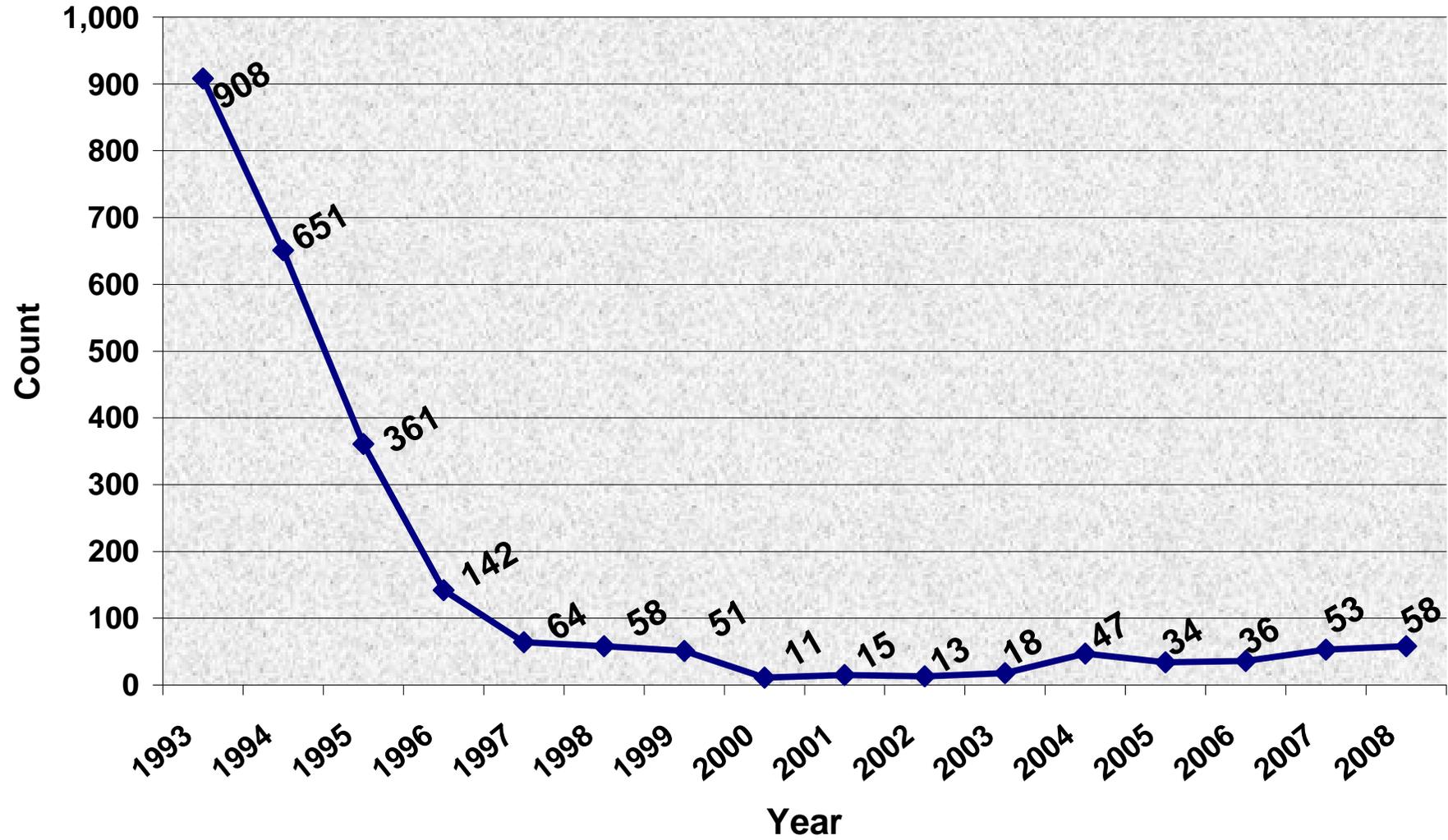
Source: Centers for Disease Control and Prevention – Annual STD Surveillance Summaries as published

Count of Chlamydia and Gonorrhea Cases City of St. Louis 1993 - 2008





Count of Primary and Secondary Syphilis City of St. Louis 1993-2008



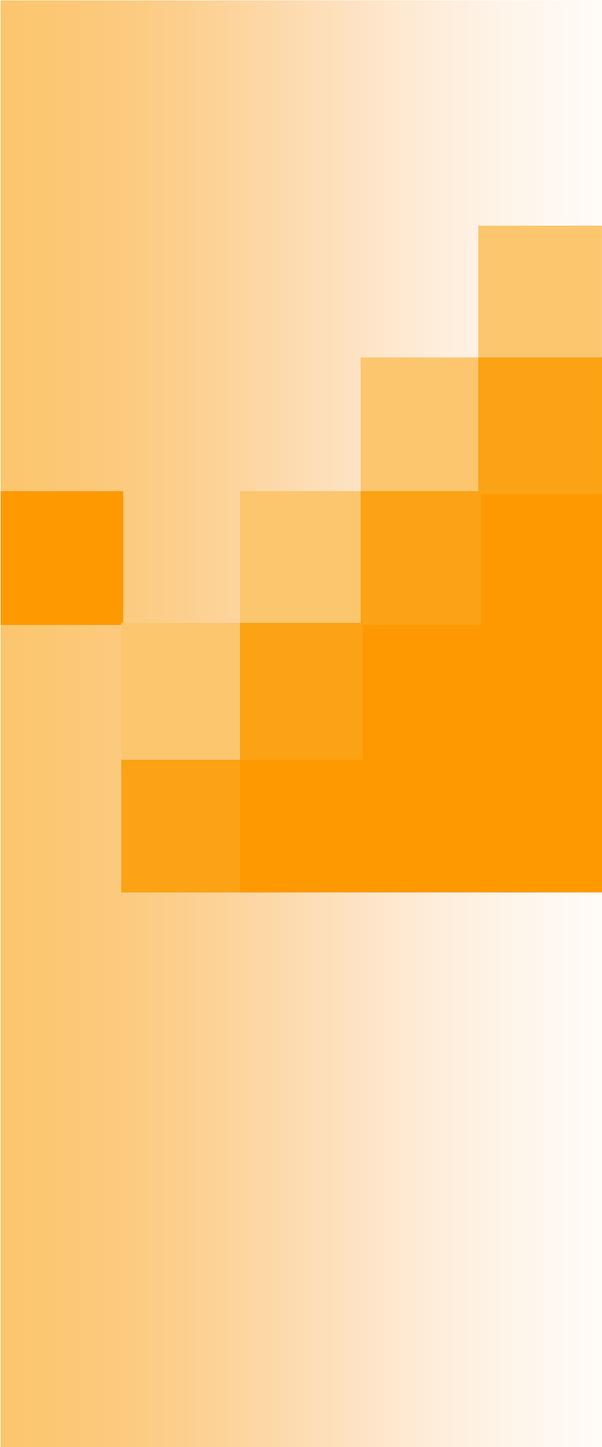
Chlamydia, Gonorrhea, & Syphilis Rates per 100,000 by Year City of St. Louis, 1992-2008

Year	Chlamydia		Gonorrhea		Primary and Secondary Syphilis		Early Latent Syphilis		Congenital Syphilis**	
	Cases	Rates	Cases	Rates	Cases	Rates	Cases	Rates	Cases	Rates
1993	2,850	757.4	5,726	1521.7	908	241.3	424	112.7	66	887.5
1994	3,013	818.3	5,228	1419.8	651	176.8	391	106.2	49	732.7
1995	2,796	779.5	4,425	1233.6	361	100.6	289	80.6	24	401.2
1996	2,386	683.1	2,890	827.4	142	40.7	136	38.9	8	137.6
1997	2,653	776	2,806	820.8	64	18.7	83	24.3	5	87.4
1998	2,921	860.8	3,652	1076.3	58	17.1	63	18.6	3	53.7
1999	3,090	882.5	2,876	821.3	51	14.6	40	11.4	5	90.9
2000	2,711	781.4	2,879	829.8	11	3.2	21	6.1	1	18.4
2001	3,195	932.1	3,185	929.2	15	4.4	15	4.4	4	75.9
2002	3,206	947.5	2,737	808.9	13	3.8	23	6.8	1	19.4
2003	3,502	1054.1	2,545	766.1	18	5.4	12	3.6	1	19.0
2004	4,130	1243.1	2,440	734.4	47	14.2	21	6.3	0	0.0
2005	4,703	1442.8	2,653	813.9	34	10.4	20	6.1	3	59.1
2006	4,581	1346.87	2,828	831.5	36	10.6	19	5.6	2	37.2
2007	4,321	1228.9	2,526	718.4	53	15.1	28	8.0	0	0.0
2008	4,264	1201.7	1,864	525.3	58	16.3	36	10.1	1	18.8

* Congenital Syphilis rates per 100,000 Live Births; all other rates per 100,000 population

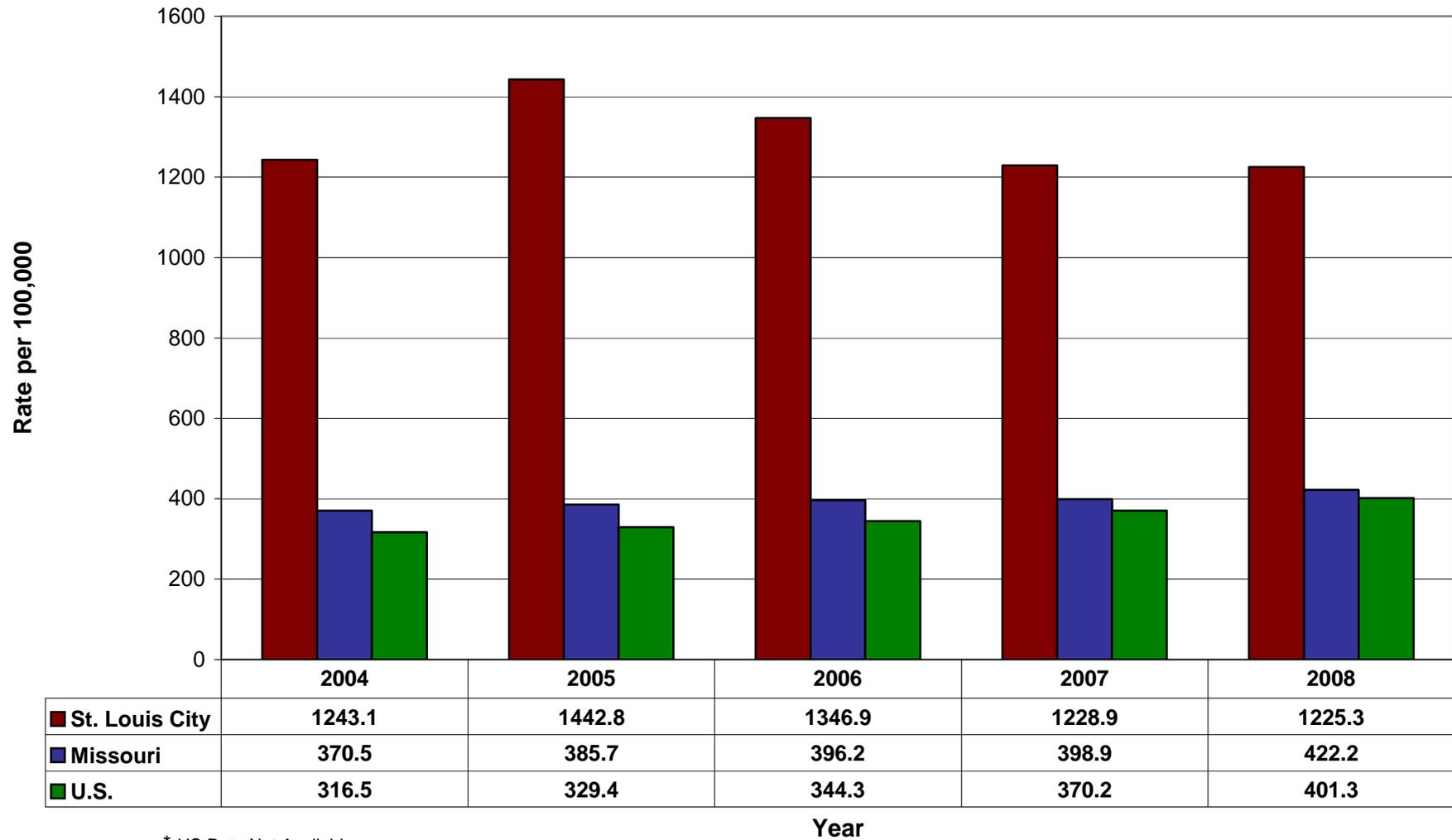
° Congenital Syphilis Rates for 07 and 08 are calculated using 2007 live birth data

**Source: 1992 - 2004: STD Surveillance Reports, Centers for Disease Control and Prevention website
2005 to 2008 from the Missouri Department of Health and Senior Services**



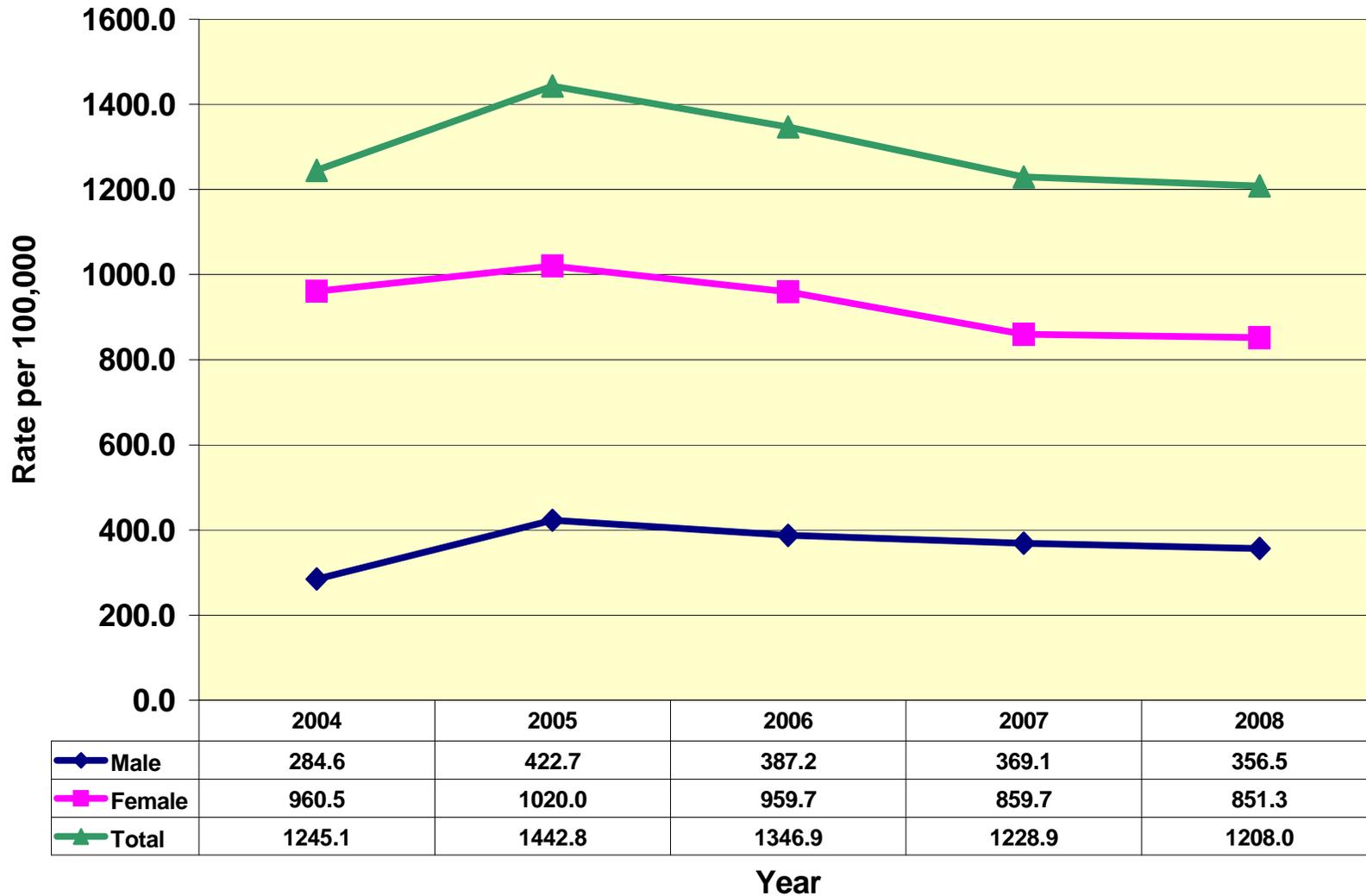
Chlamydia

**Comparison of Chlamydia Incidence Rates per 100,000
United States, Missouri, and City of St. Louis, 2004-2008**

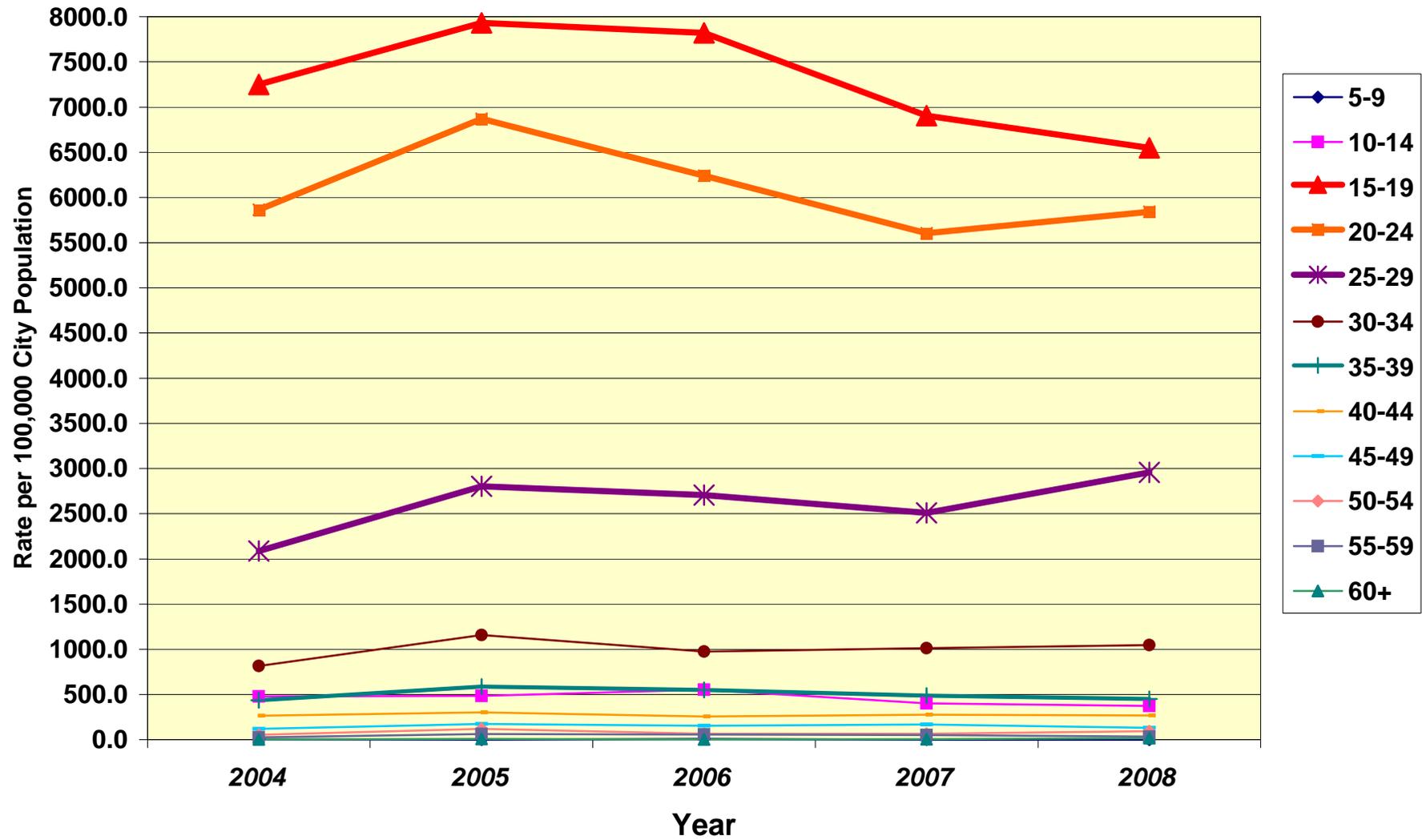


* US Data Not Available

Chlamydia Rates per 100,000 of Total Population by Gender and Year - City of St. Louis, 2004-2008



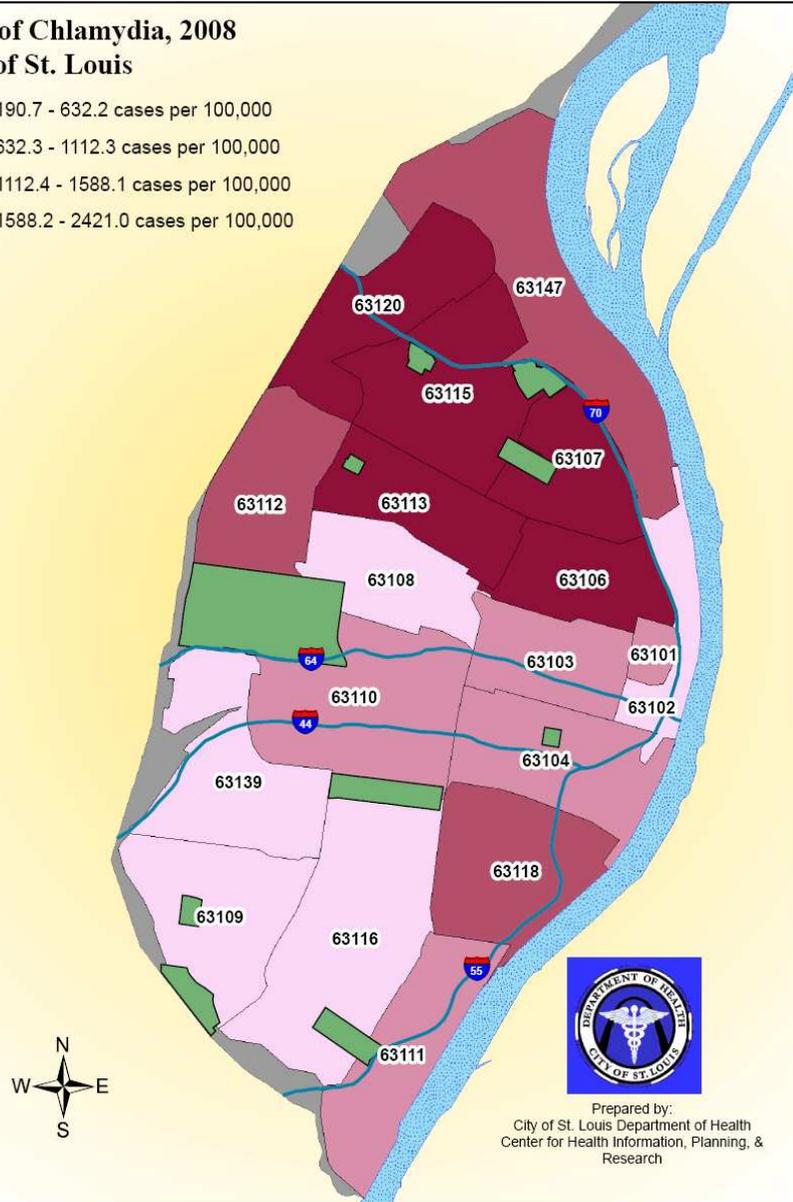
Chlamydia Rates by Age Group per 100,000 City Population City of St. Louis 2004-2008





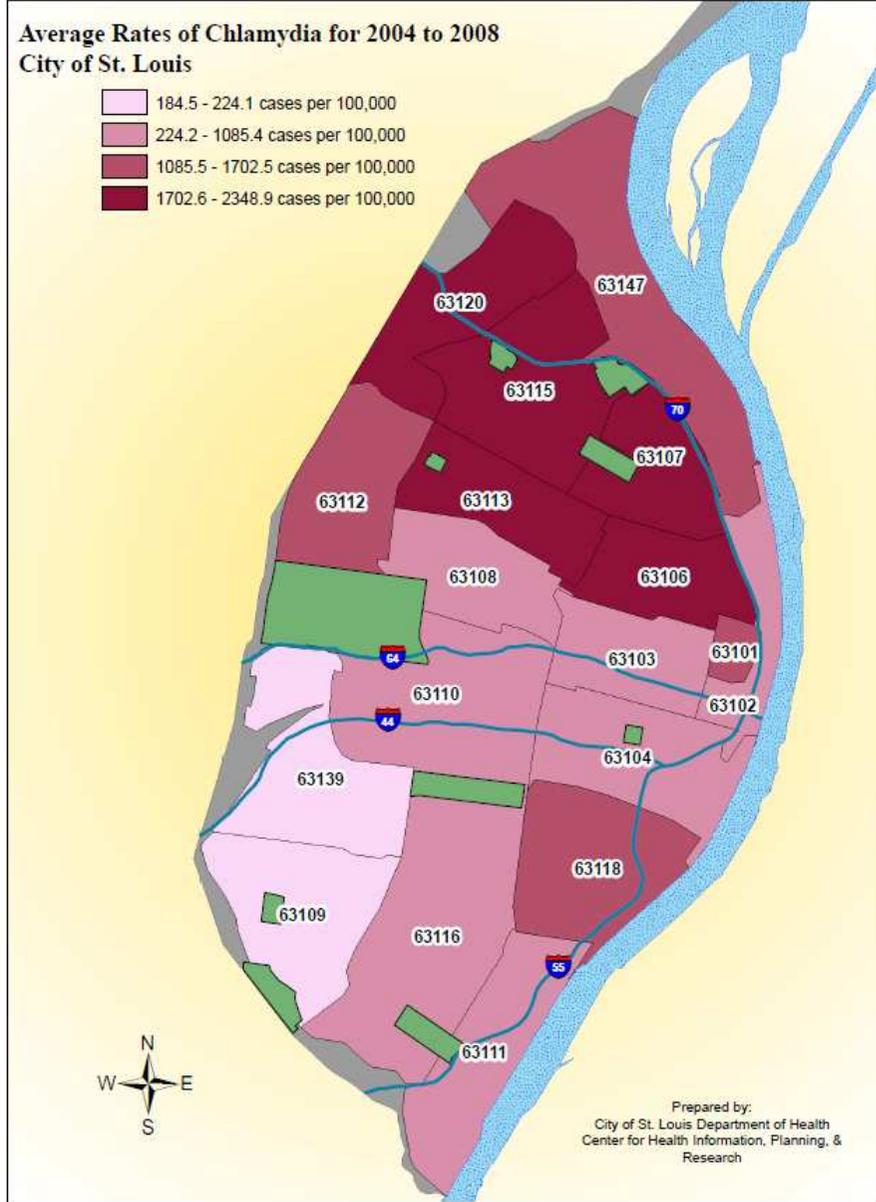
Rate of Chlamydia, 2008 City of St. Louis

- 190.7 - 632.2 cases per 100,000
- 632.3 - 1112.3 cases per 100,000
- 1112.4 - 1588.1 cases per 100,000
- 1588.2 - 2421.0 cases per 100,000



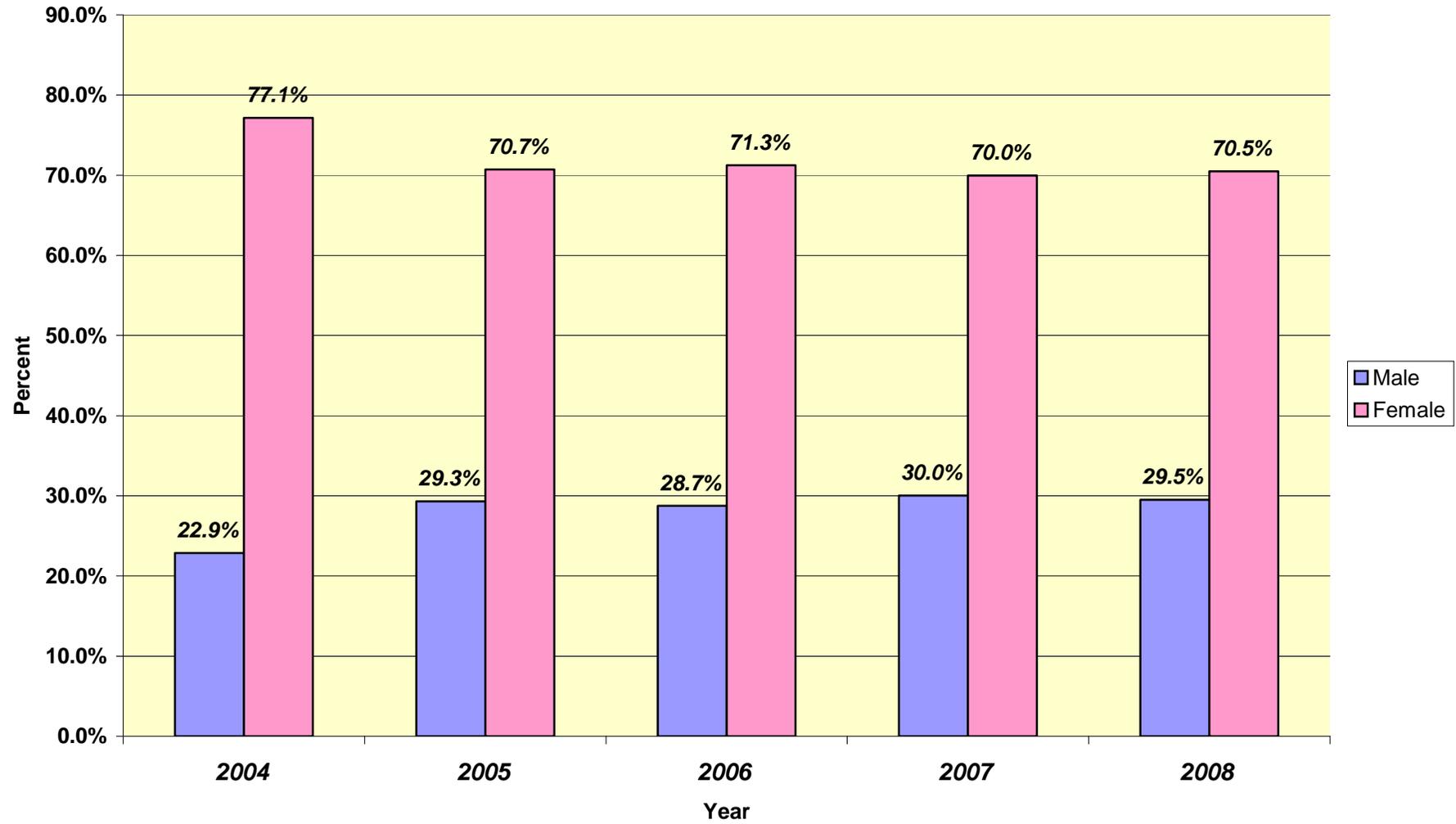
Average Rates of Chlamydia for 2004 to 2008 City of St. Louis

- 184.5 - 224.1 cases per 100,000
- 224.2 - 1085.4 cases per 100,000
- 1085.5 - 1702.5 cases per 100,000
- 1702.6 - 2348.9 cases per 100,000

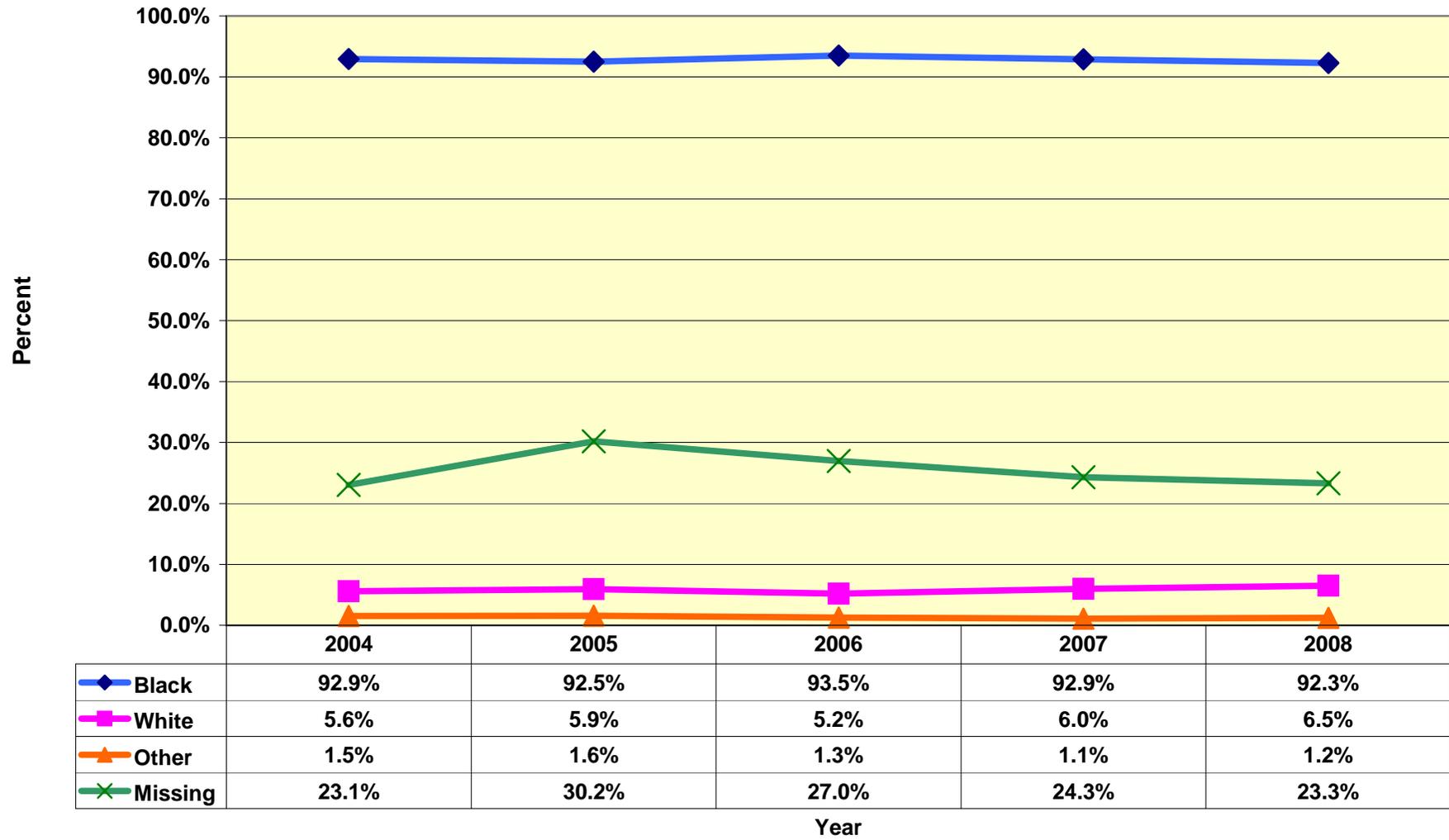




Percent of Chlamydia Cases by Gender City of St. Louis, 2004-2008



**Percent of Chlamydia Cases by Known Race
City of St. Louis, 2004-2008**





Chlamydia Compared

2004-2008 Average

4386.8 cases

71.8% Female*

92.8% Black**

71.9% 15-24 age group

Highest rate by zip code:

63106

63120

63107

2008

4199 cases

70.5% Female*

92.3% Black**

71.1% 15-24 age group

Highest rate by zip code:

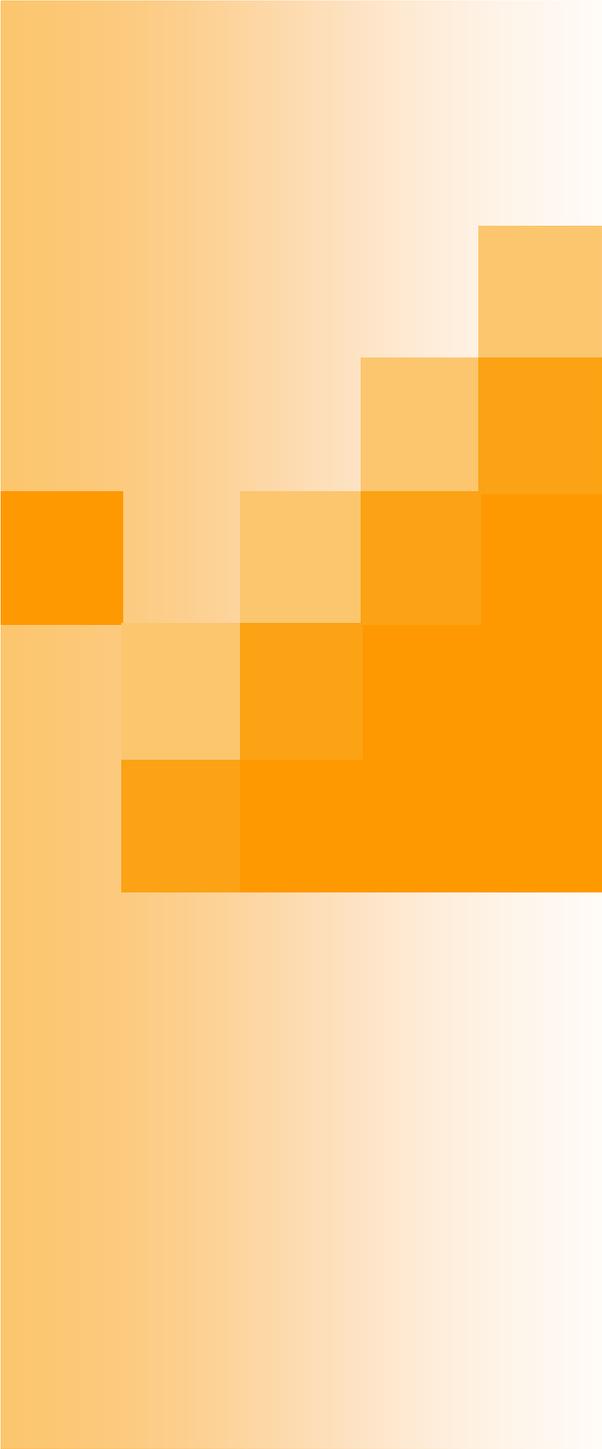
63106

63107

63120

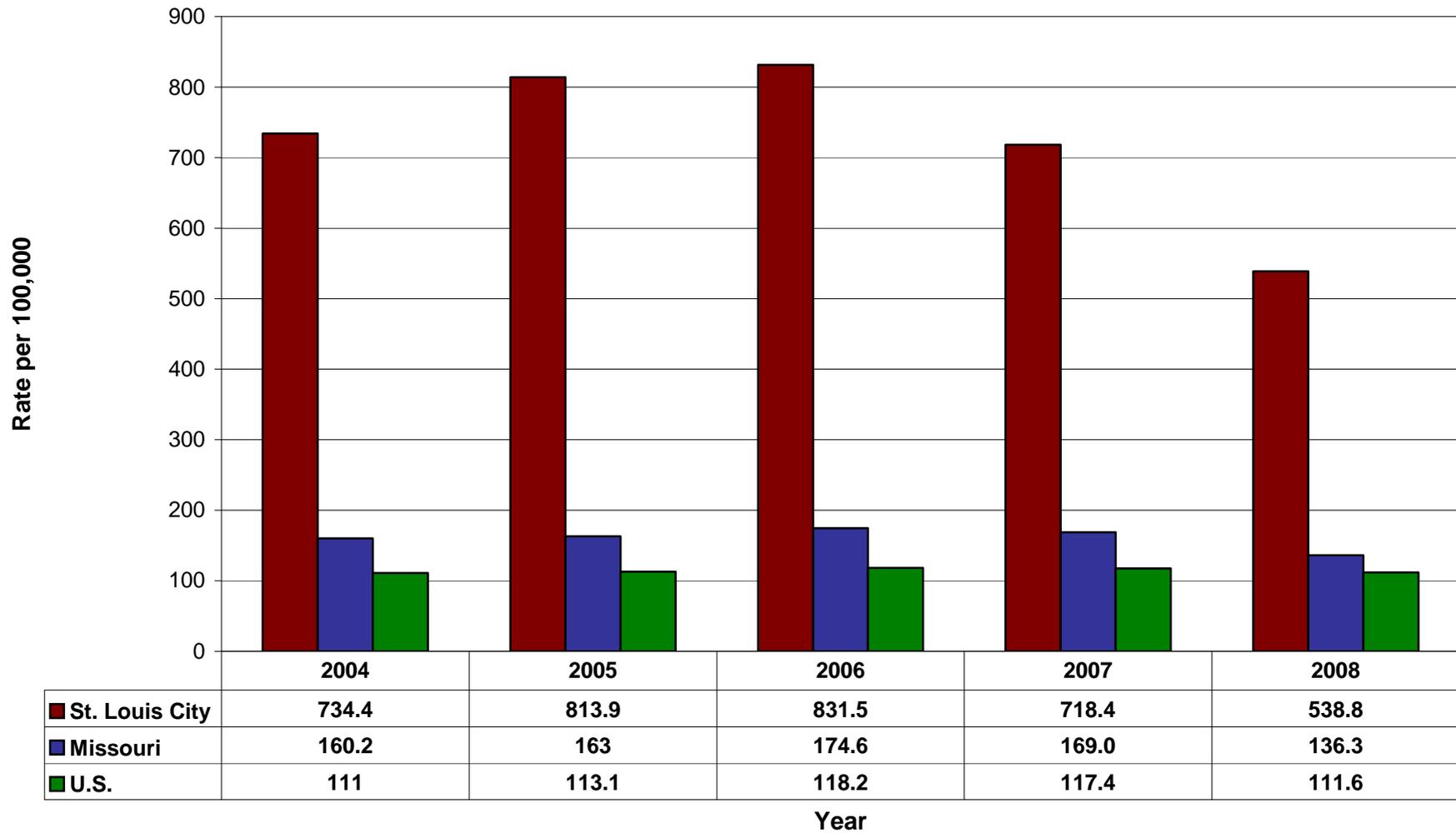
**Screening is targeted to women of child bearing age to prevent infertility, a complication of untreated Chlamydia infection. However, screening among females and males became more widespread between 2003-2004*

*** Percent taken among total cases with known race.*

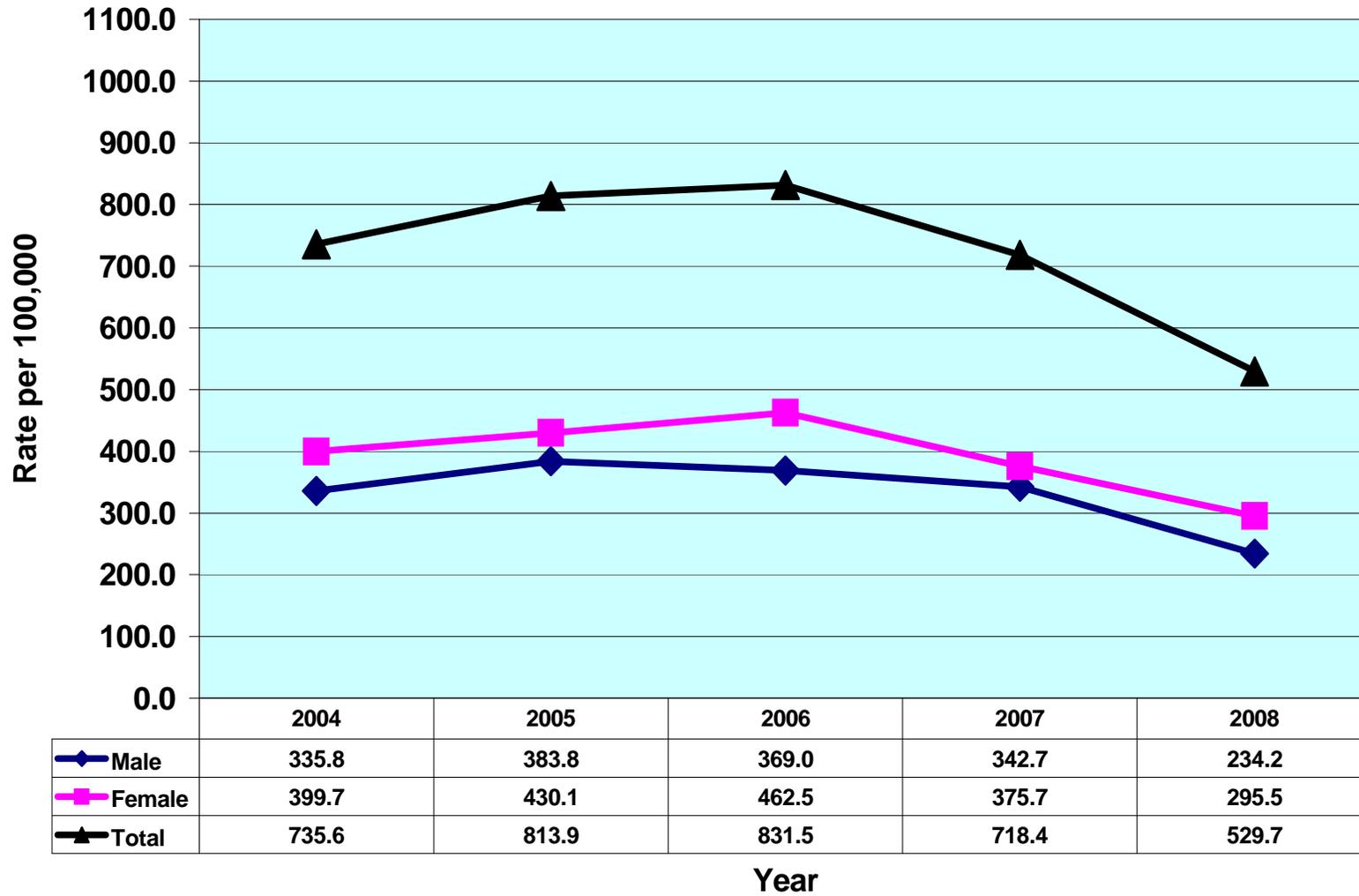


Gonorrhoea

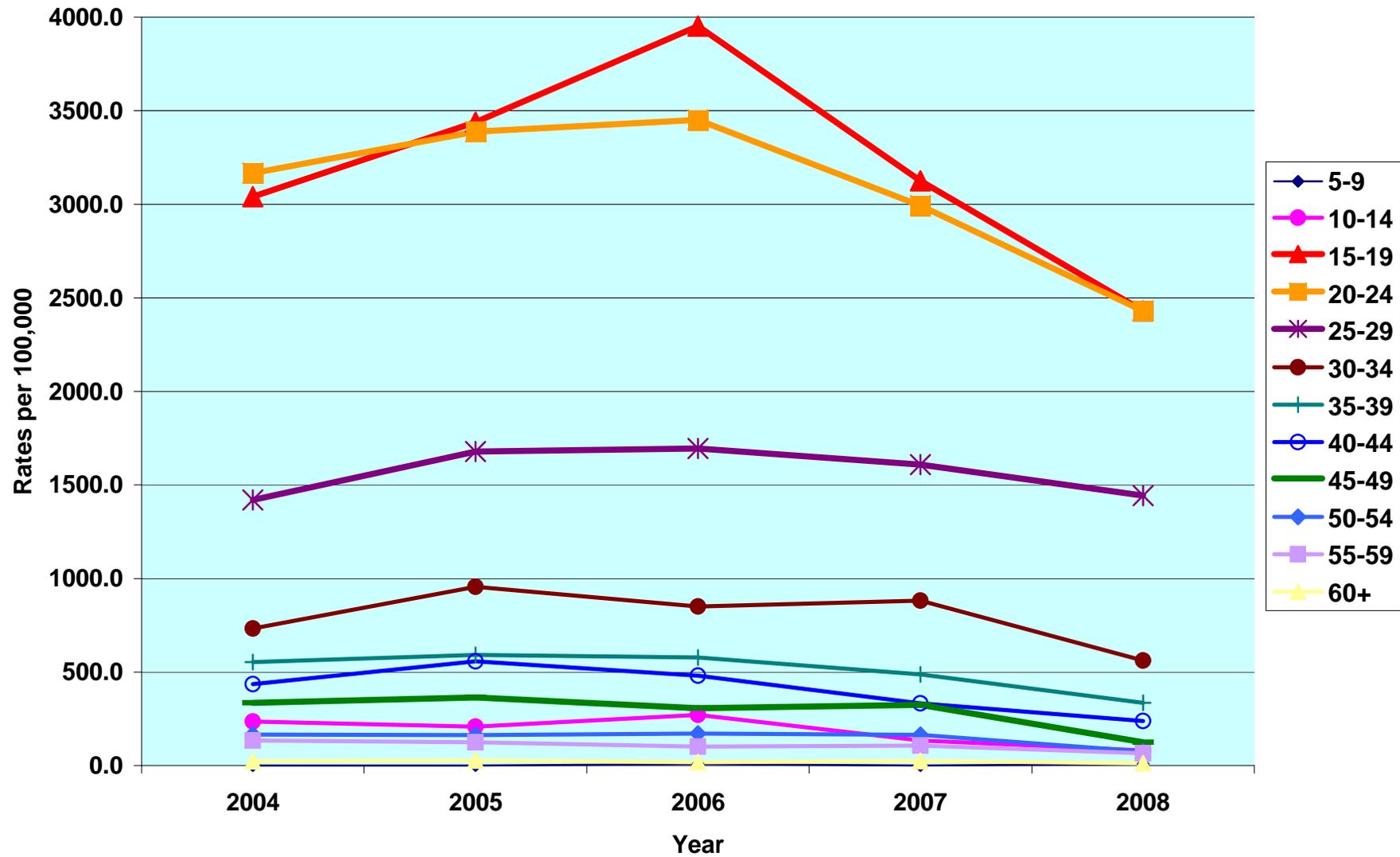
**Comparison of Gonorrhea Incidence Rates per 100,000
United States, Missouri, and City of St. Louis, 2004-2008**



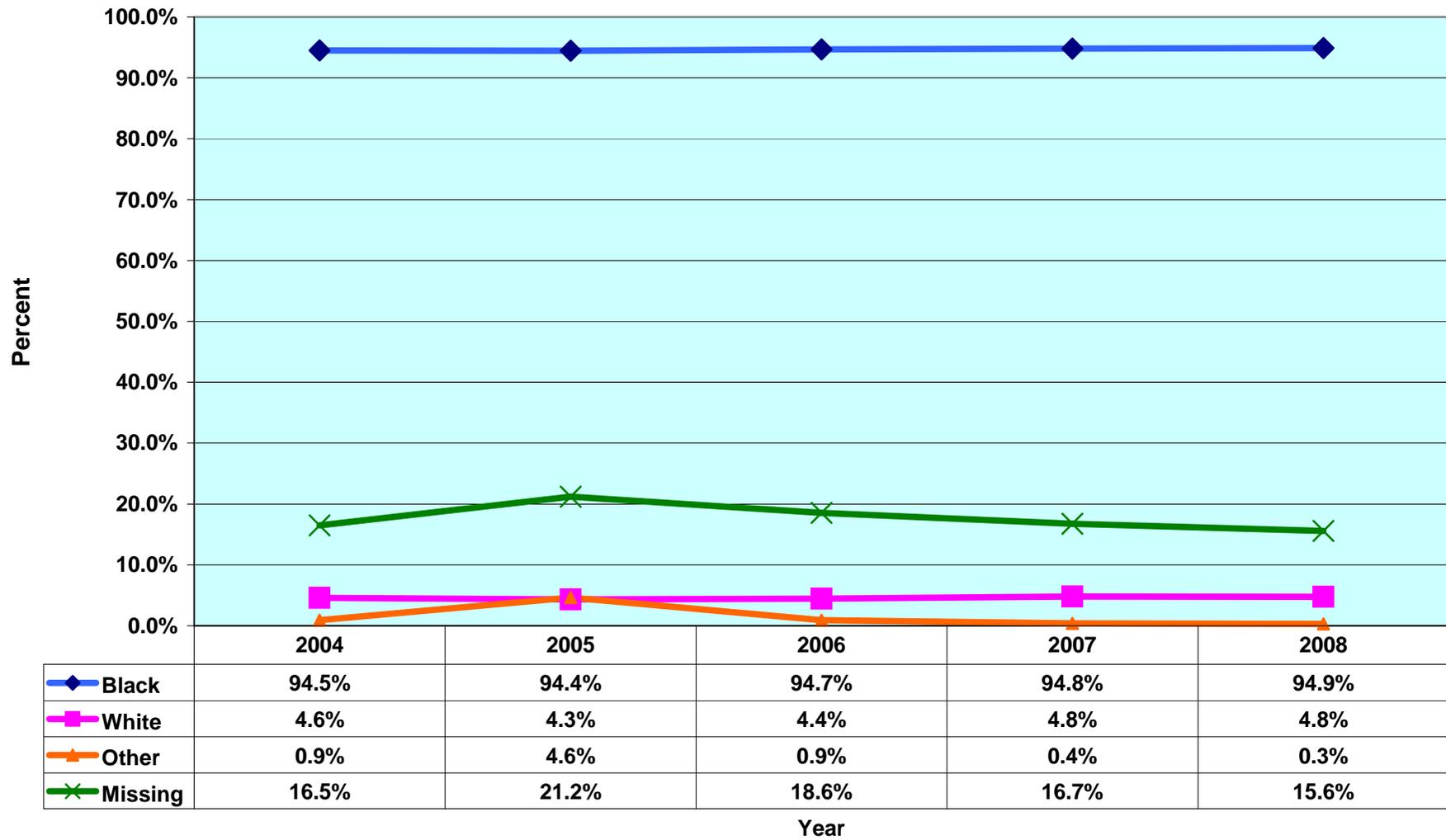
***Gonorrhea Rates per 100,000 City Population by Gender and Year,
City of St. Louis 2004-2008***



**Gonorrhea Rates per 100,000 City Population
by Age Group and Year, City of St. Louis 2004-2008**

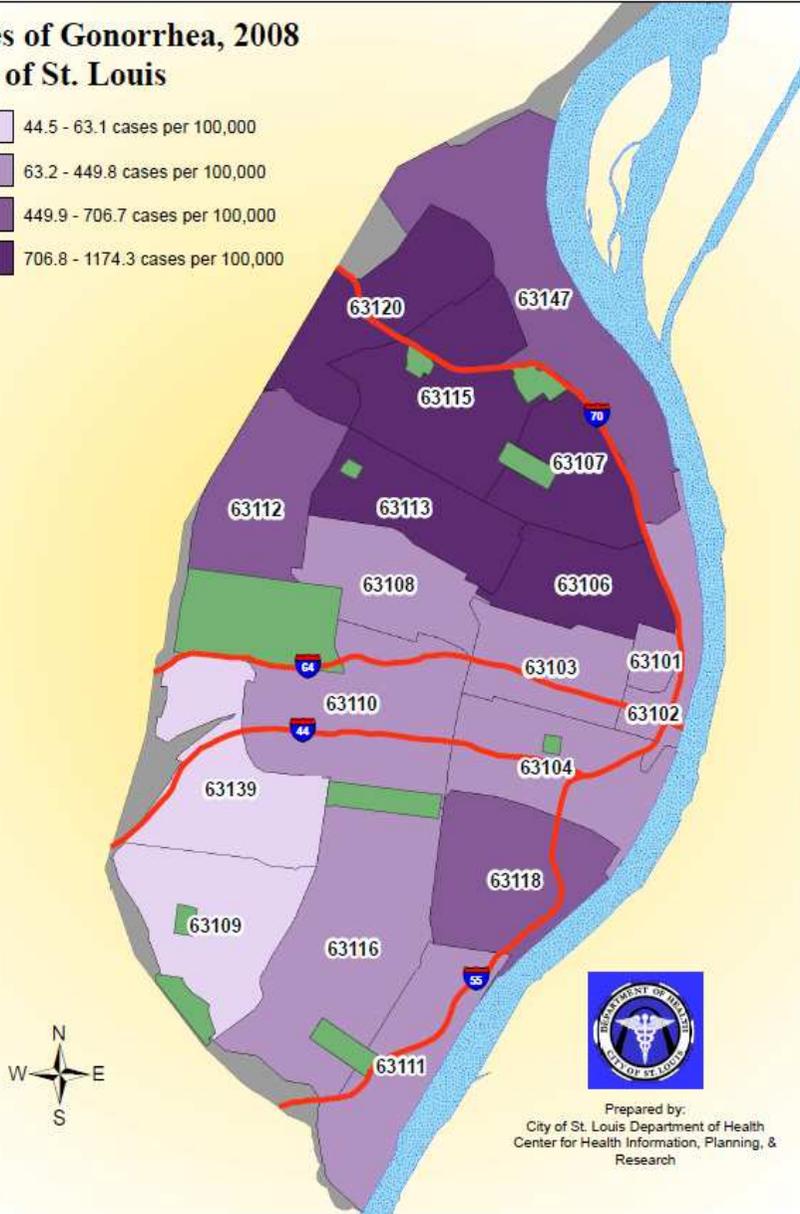


**Percent of Gonorrhea Cases by Known Race,
City of St. Louis 2004-2008**



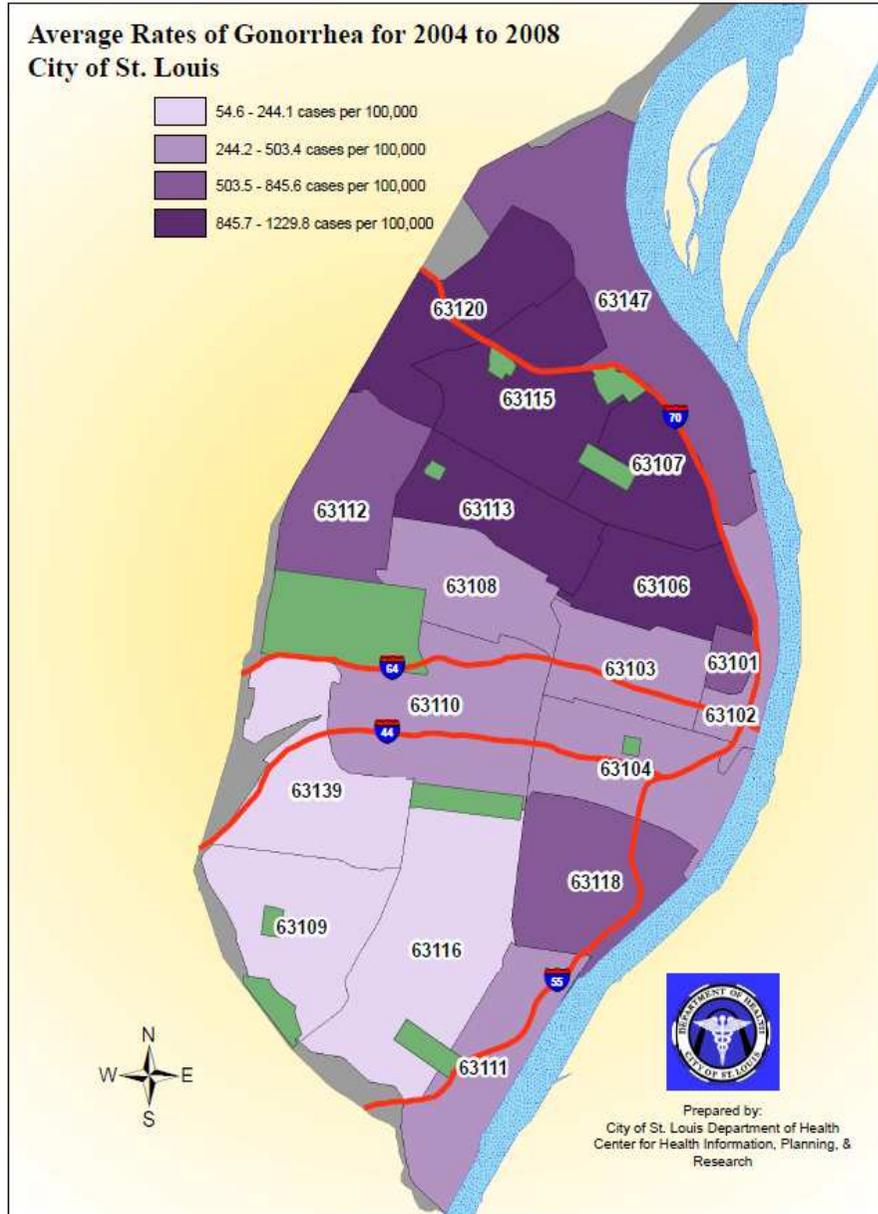
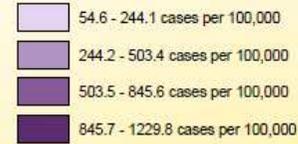


Rates of Gonorrhea, 2008 City of St. Louis



Prepared by:
City of St. Louis Department of Health
Center for Health Information, Planning, &
Research

Average Rates of Gonorrhea for 2004 to 2008 City of St. Louis



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City of St. Louis Department of Health
Center for Health Information, Planning, &
Research



Gonorrhea Compared

2004-2008 Average

2457.6 cases

54.1% Female

95.5% Black*

60.2% 15-24 age
group

Highest ZIP Codes:

63107

63120

63113

2008

1841 cases

55.8% Female

94.9% Black*

63.4% 15-24 age group

Highest ZIP Codes:

63120

63107

63115

** Percent taken among total cases with known race.*



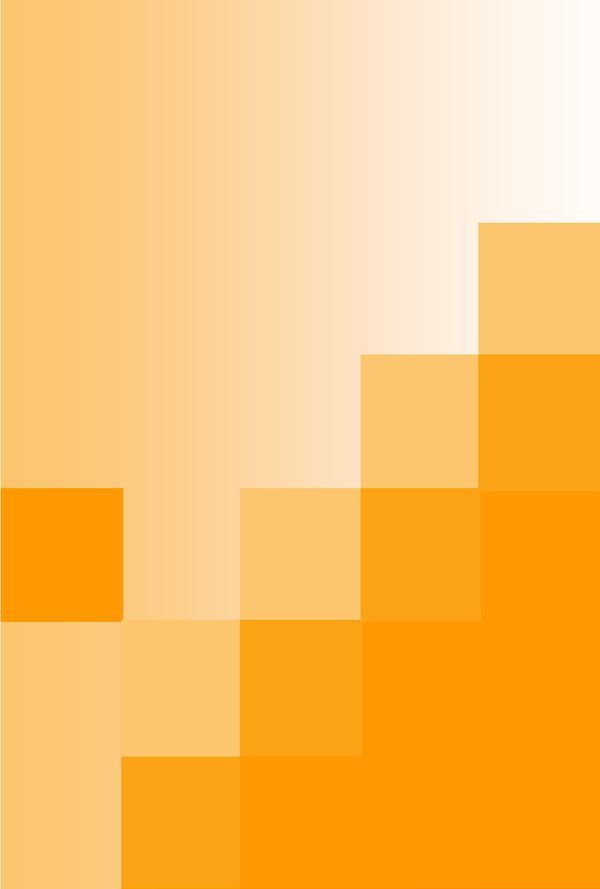
Female to Male Ratio of Cases by Year, City of St. Louis 2004-2008

Chlamydia (all ages)

Year	Female	Male	Ratio
2004	3186	944	3.4
2005	3325	1378	2.4
2006	3264	1317	2.5
2007	3023	1298	2.3
2008	2959	1240	2.4
Five Year Average	3151.4	1235.4	2.6

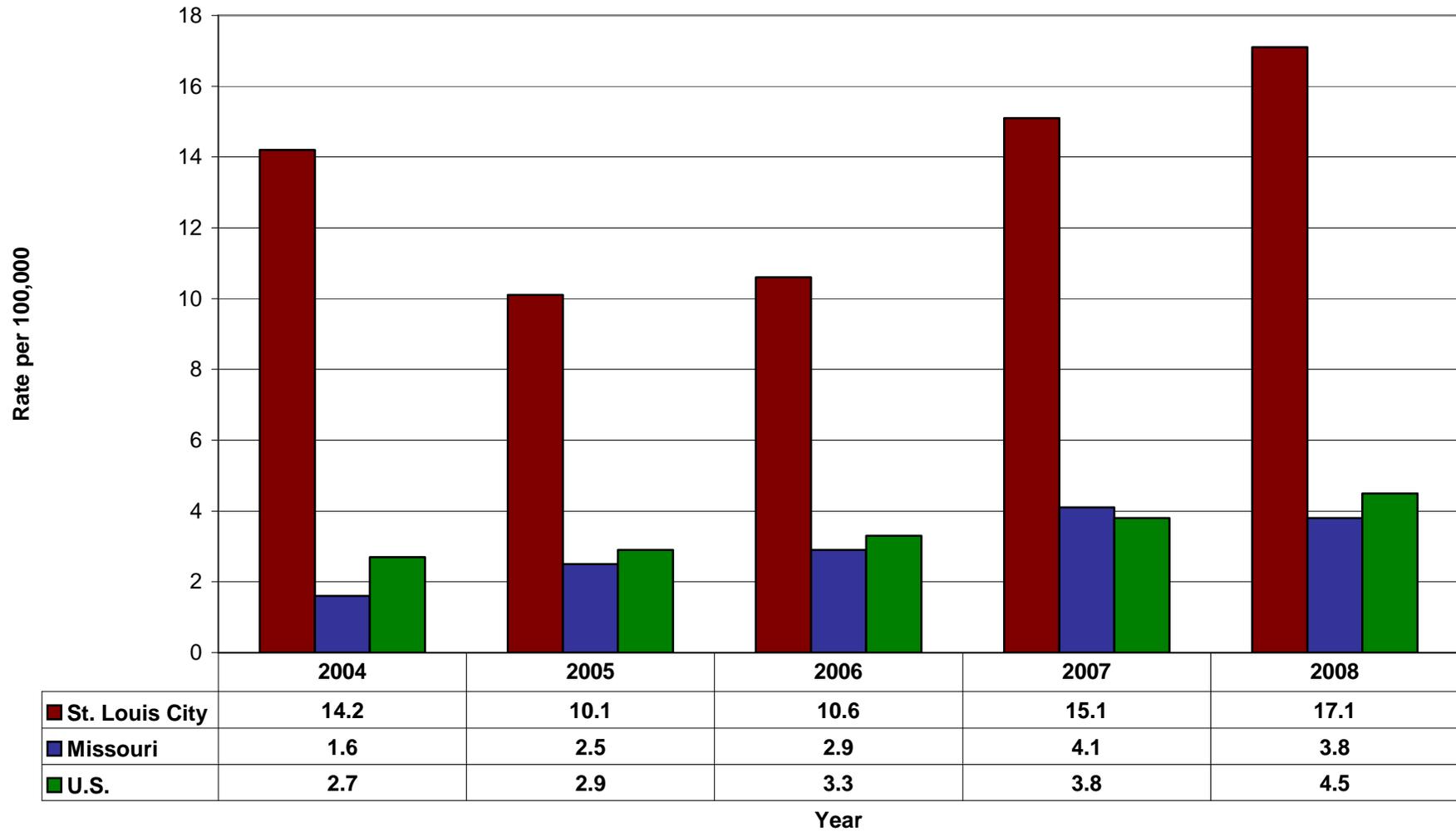
Gonorrhea (all ages)

Year	Female	Male	Ratio
2004	1326	1114	1.2
2006	1402	1251	1.1
2006	1573	1255	1.3
2007	1321	1205	1.1
2008	1027	814	1.3
Five-Year Average	1329.8	1127.8	1.2



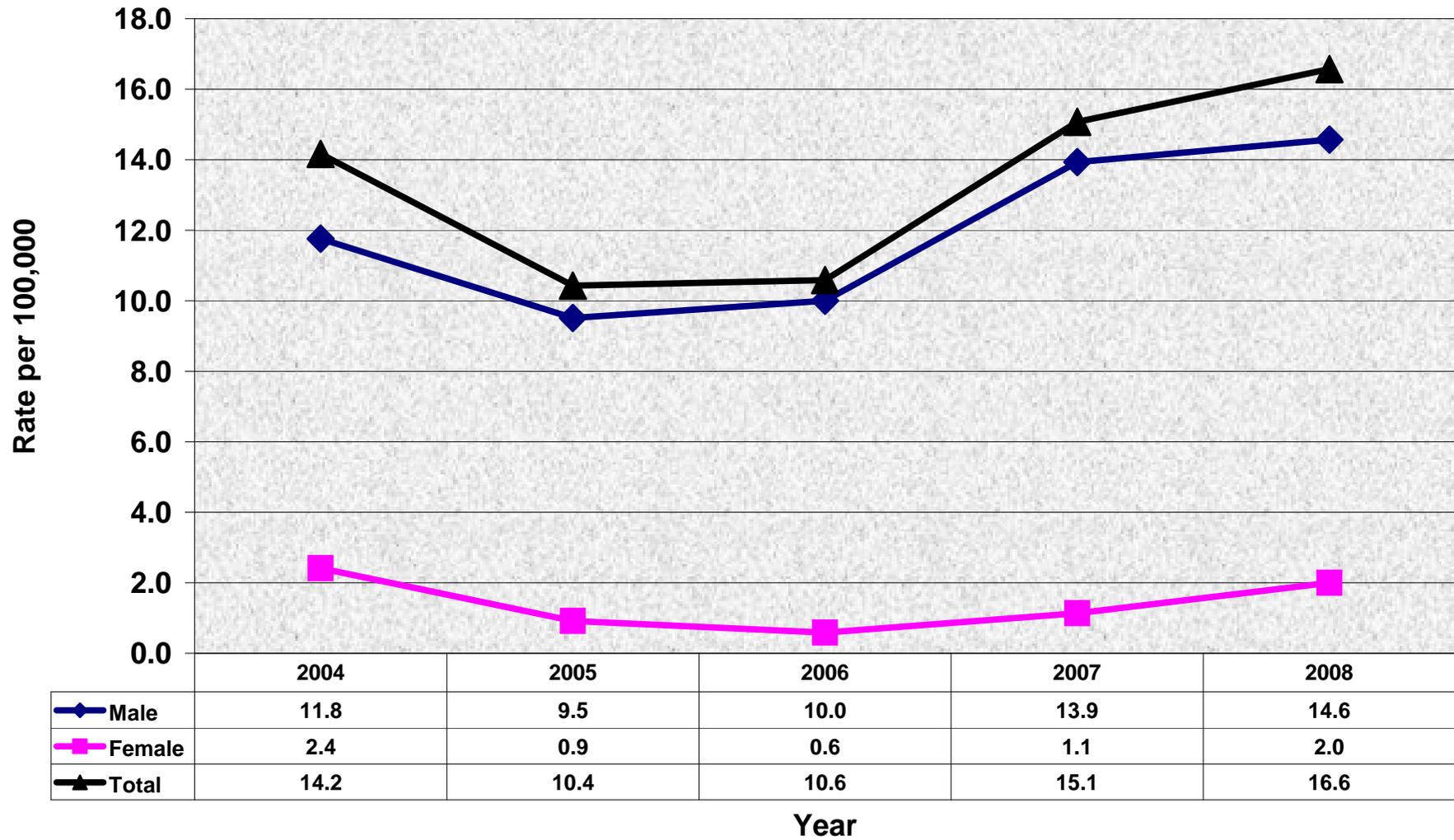
Primary and Secondary Syphilis

**Comparison of Primary & Secondary Syphilis Incidence Rates per 100,000
United States, Missouri, and City of St. Louis, 2004-2008**

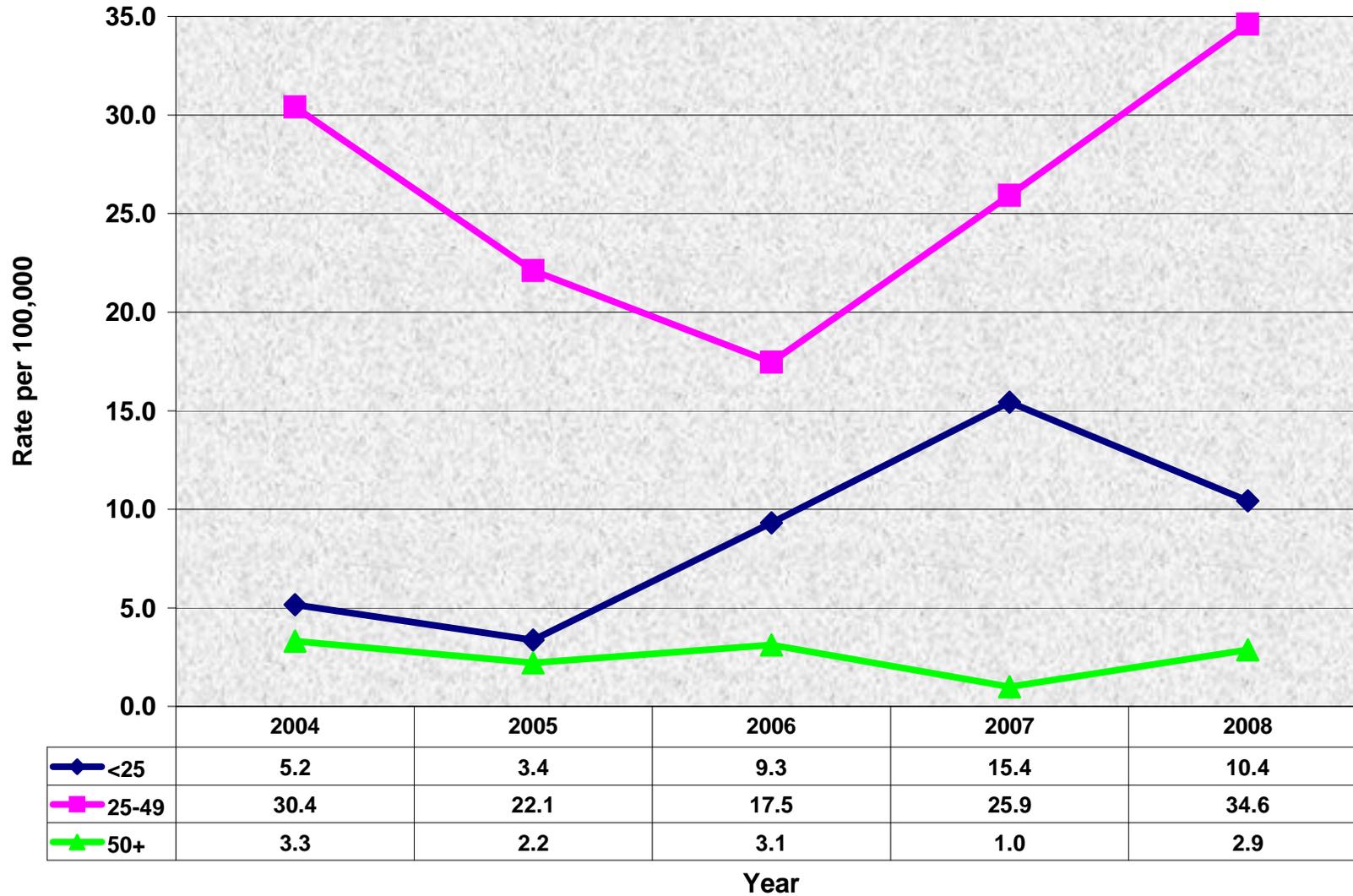




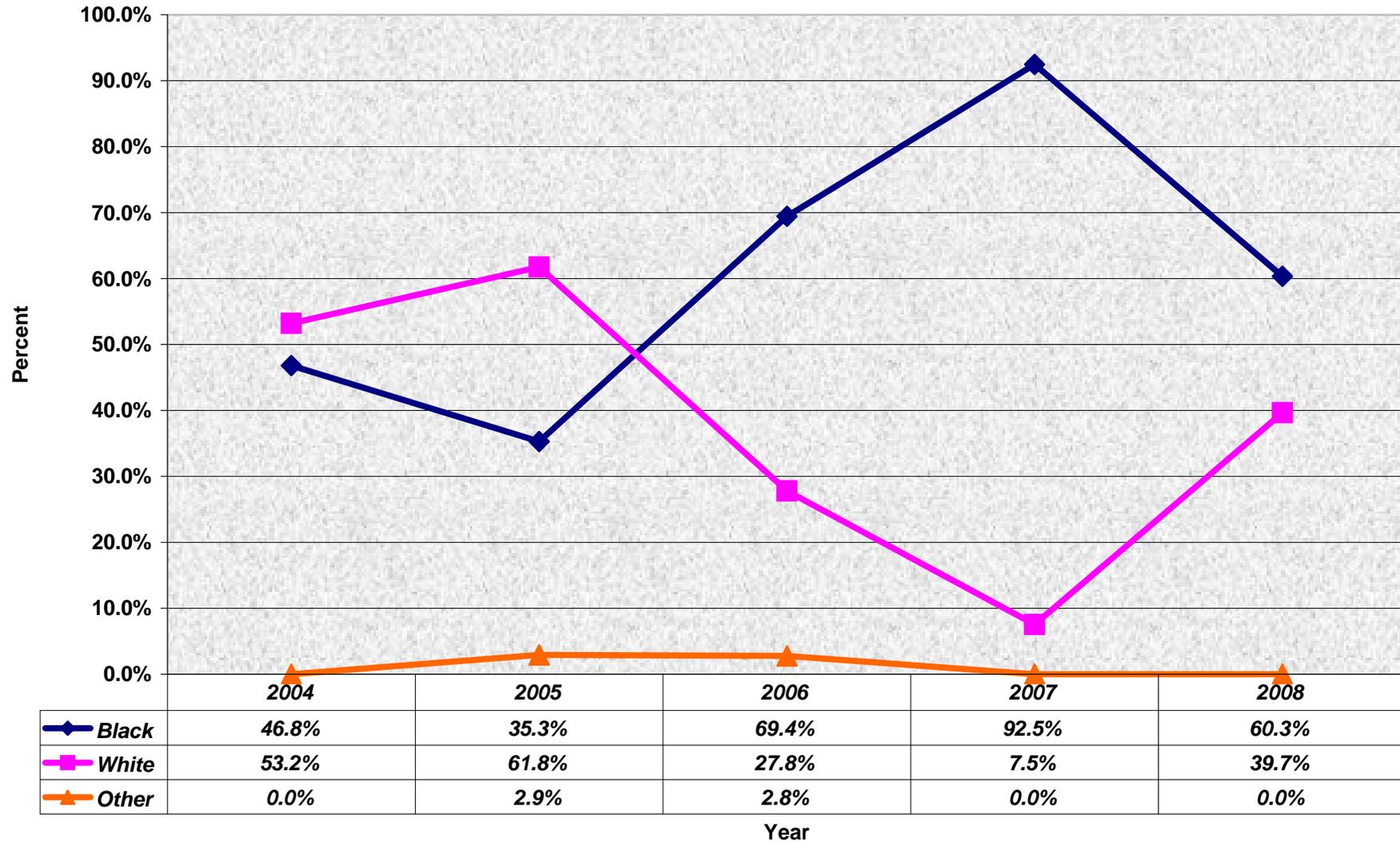
Primary and Secondary Syphilis Rates per 100,000 City Population by Gender and Year, City of St. Louis 2004-2008



**Rates of Primary & Secondary Syphilis per 100,000 City Population
by Age Group and Year, City of St. Louis 2004 to 2008**

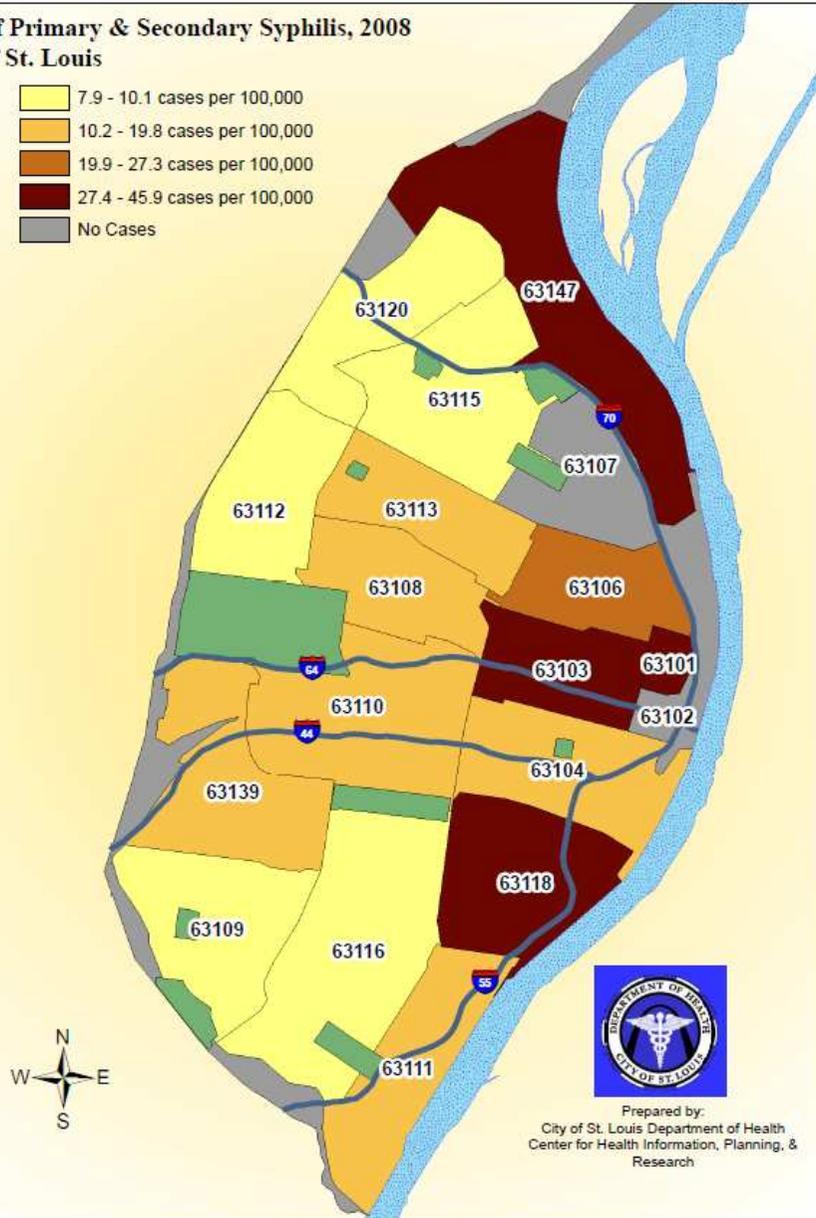
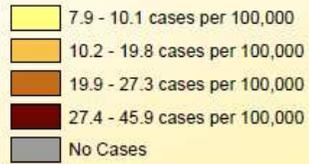


**Percentage of Primary and Secondary Syphilis Cases by Race
City of St. Louis 2004-2008**



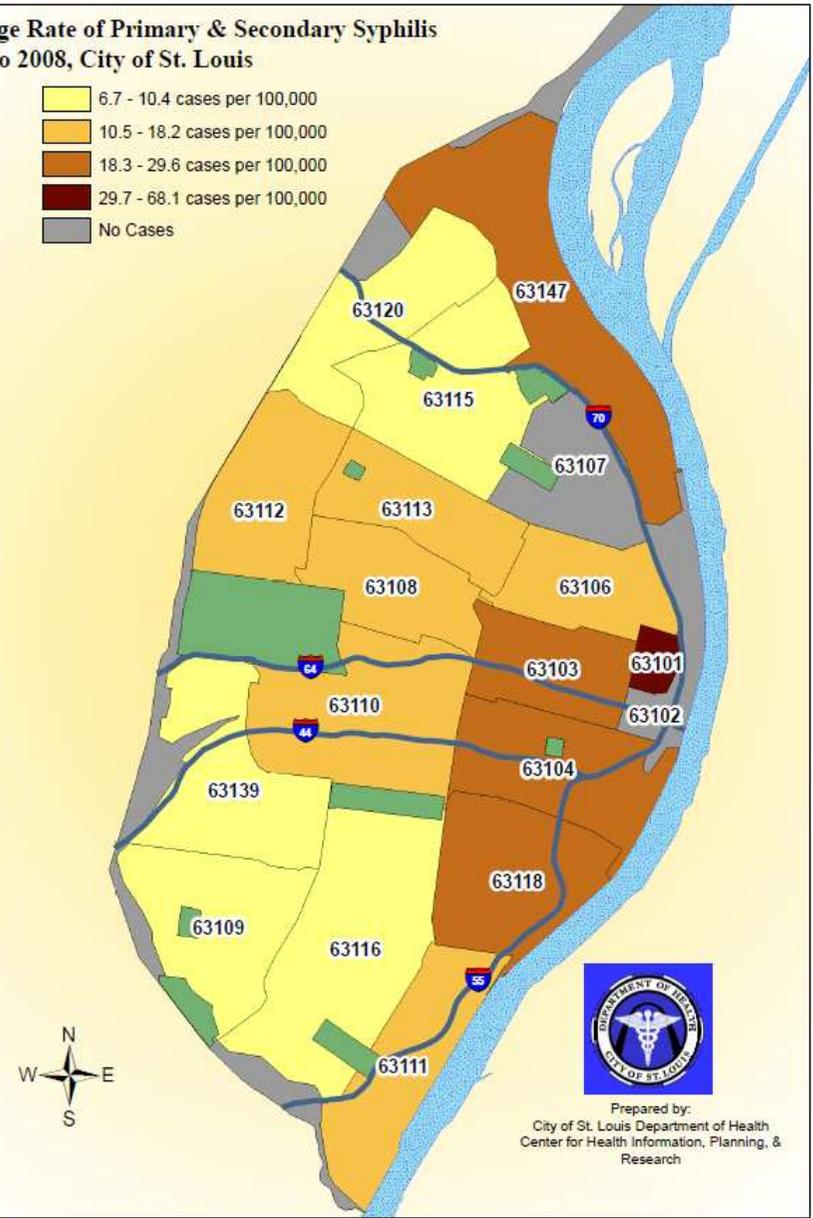
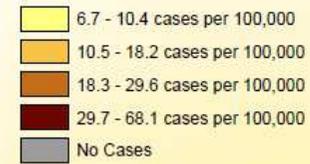


Rate of Primary & Secondary Syphilis, 2008 City of St. Louis



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City of St. Louis Department of Health
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Average Rate of Primary & Secondary Syphilis 2004 to 2008, City of St. Louis



Prepared by:
City of St. Louis Department of Health
Center for Health Information, Planning, &
Research



Primary & Secondary Syphilis Compared

2004-2008 Average

45.6 cases

89.4% Male

62.7% Black

71.5% 25-49 age group

Highest ZIP Codes:

63118

63147

63104

2008

58 cases

87.9% Male

60.3% Black

72.4% 25-49 age group

Highest ZIP Codes:

63118

63147

63106

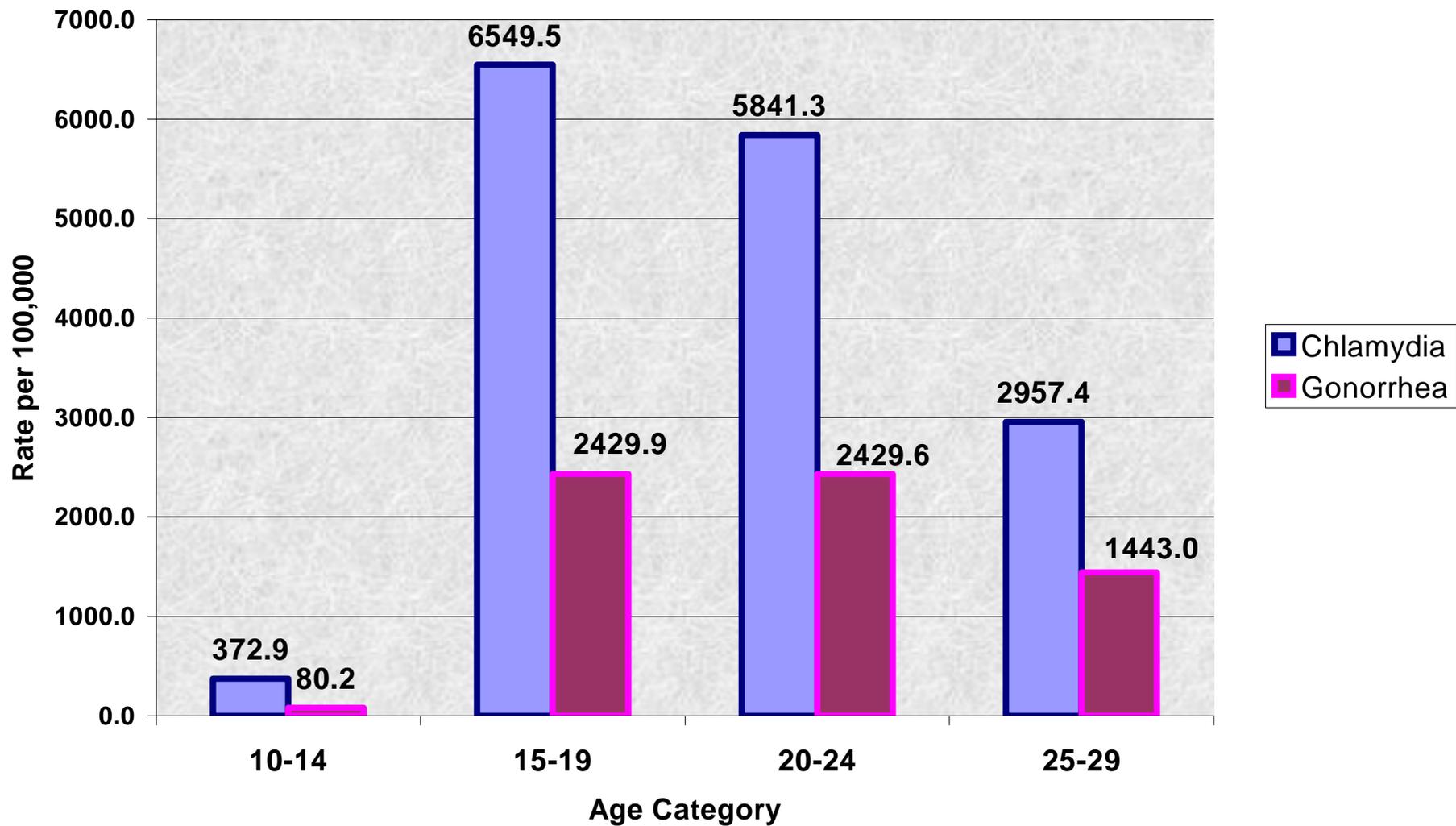


Male to Female Ratio of Primary and Secondary Syphilis Cases by Year **City of St. Louis, 2004-2008** (all ages)

Year	Male	Female	Ratio
2004	39	8	4.9
2005	31	3	10.3
2006	34	2	17.0
2007	49	4	12.3
2008	51	7	7.3
Five-Year Average	40.8	4.8	8.5

Sexually Transmitted Disease in Youth and Young Adults

**Age-Specific Disease Rates per 100,000 Among Youth and Young Adults
by Age Category, City of St. Louis 2008**





Female to Male Ratio of Cases by Year, City of St. Louis 2004-2008

Chlamydia (Ages 15-19)

Year	Female	Male	Ratio
2004	1393	278	5.0
2005	1455	390	3.7
2006	1444	432	3.3
2007	1301	409	3.2
2008	1260	368	3.4
Five Year Average	1370.6	375.4	3.7

Gonorrhea (Ages 15-19)

Year	Female	Male	Ratio
2004	491	210	2.3
2005	546	254	2.1
2006	671	277	2.4
2007	506	268	1.9
2008	421	183	2.3
Five Year Average	527	238.4	2.2

