

Sexually Transmitted Disease in the City of St. Louis 2007-2011



**City of St Louis
Department of Health
December 2012**

Sources

Prepared by:
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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)

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The Cases

- 74% of Chlamydia and 64% of Gonorrhea cases in St. Louis City are among 15-24 year olds in 2011
- 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)

- ❑ Increased education and training on screening and treatment practices for local health care providers
- ❑ Increased outreach using mobile testing methods funded by the Minority AIDS Initiative
- ❑ Continued expansion of education and outreach to area schools and youth programs, including Boys & Girls Club, Special School District, and several Charter Schools
- ❑ Expanded the regional HIV prevention group to include STD elimination. Partners include Planned Parenthood, St. Louis County Health Department, and Harris-Stowe State University

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

St. Louis Metropolitan Statistical Area STD Rankings Among Selected *MSAs, 2007-2011

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>
2007	7	14	8	9	27	23
2008	11	14	14	12	30	24
2009	12	14	25	17	40	33
2010	17	14	18	13	36	26
2011	14	15	8	11	41	32

*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

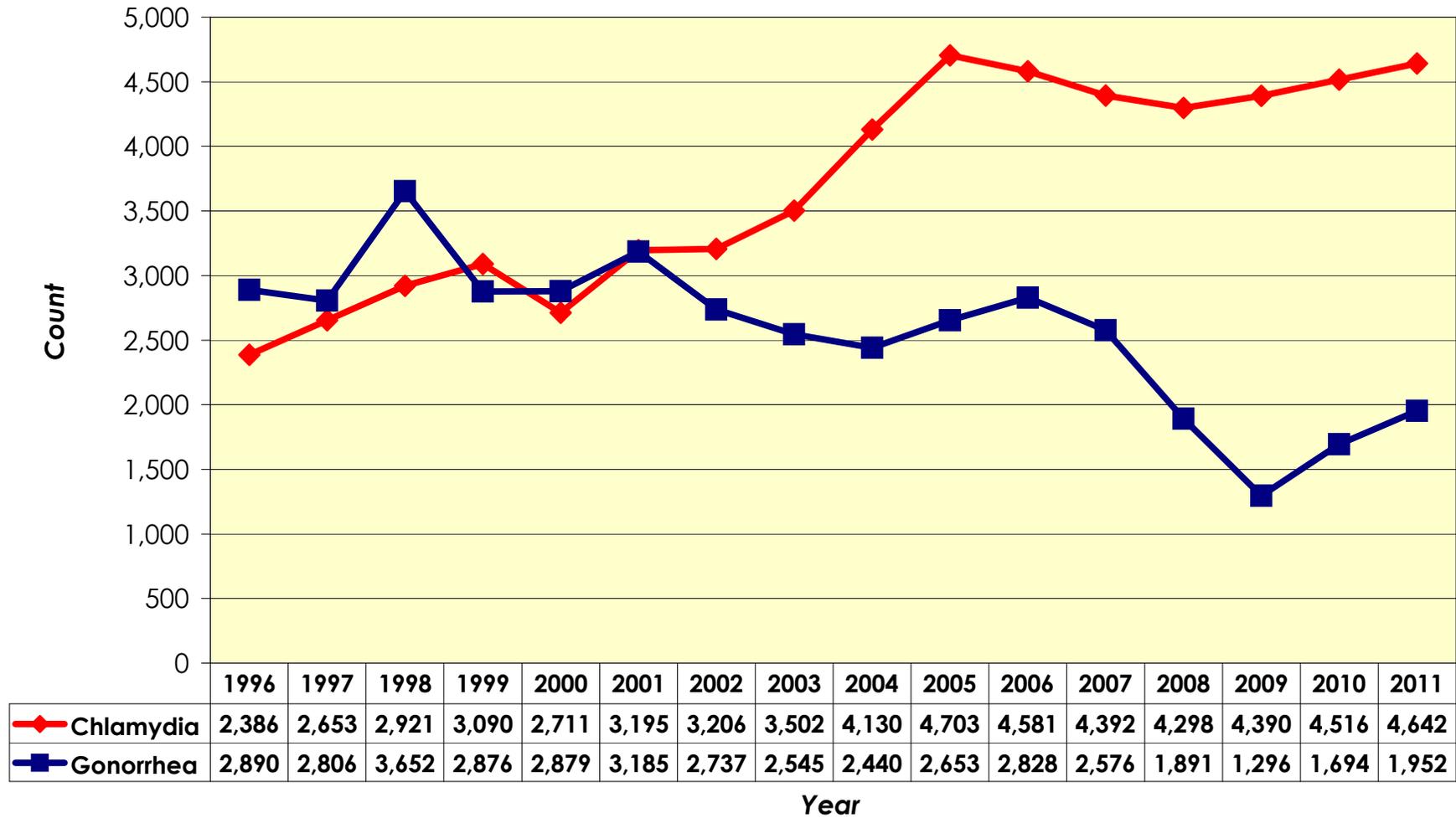
STD Rankings by Counties and Independent Cities 2007-2011

Year	Chlamydia		Gonorrhea		P&S Syphilis	
	Rate Rank	Count Rank	Rate Rank	Count Rank	Rate Rank	Count Rank
2007	1	50	1	20	16	48
2008	2	53	2	37	16	49
2009	2	53	12	50	41	75
2010	na*	na*	3	37	20	49
2011	2	59	2	34	16	63

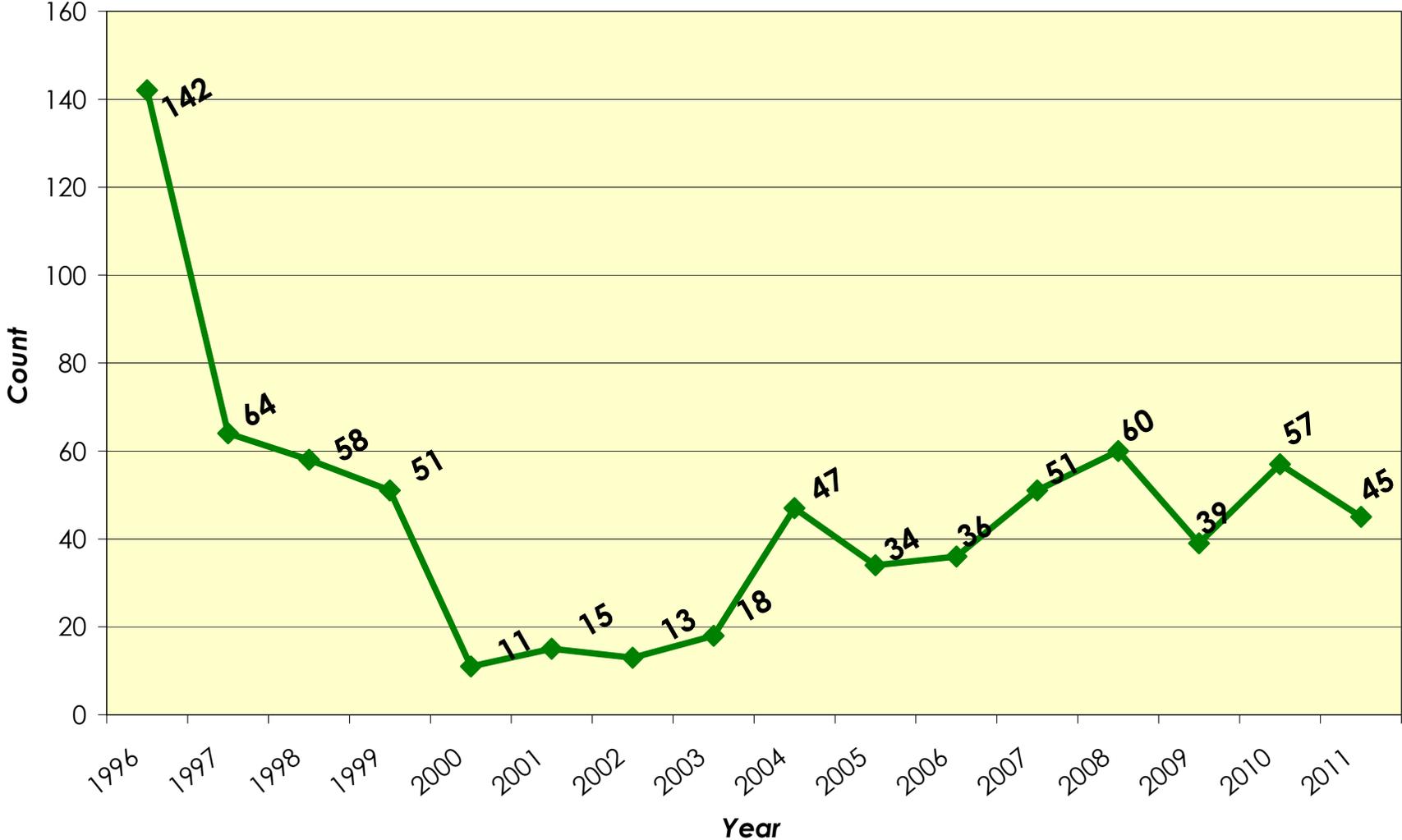
*Chlamydia rankings for St. Louis City were not included in the 2010 CDC STD Surveillance Report

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

Count of Chlamydia and Gonorrhea Cases City of St. Louis 1996-2011



Count of Primary and Secondary Syphilis City of St. Louis 1996-2011



Chlamydia, Gonorrhea, & Syphilis Rates per 100,000 by Year, City of St. Louis, 1996-2011

Year	Chlamydia		Gonorrhea		Primary and Secondary Syphilis		Early Latent Syphilis		Congenital Syphilis*°	
	Cases	Rates	Cases	Rates	Cases	Rates	Cases	Rates	Cases	Rates
1996	2,386	683.1	2,890	827.4	142	40.7	136	38.9	8	137.6
1997	2,653	776.0	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	1346.9	2,828	831.5	36	10.6	19	5.6	2	37.2
2007	4,392	1228.9	2,576	718.4	51	15.1	28	8.0	0	0.0
2008	4,298	1201.7	1,891	525.3	60	16.3	36	10.1	1	18.5
2009	4,390	1253.6	1,296	370.1	39	11.1	55	15.7	1	19.5
2010	4,509	1412.2	1,694	530.5	57	17.9	49	15.3	0	0.0
2011	4,642	1453.8	1,926	603.2	45	14.1	42	13.2	1	20.6

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

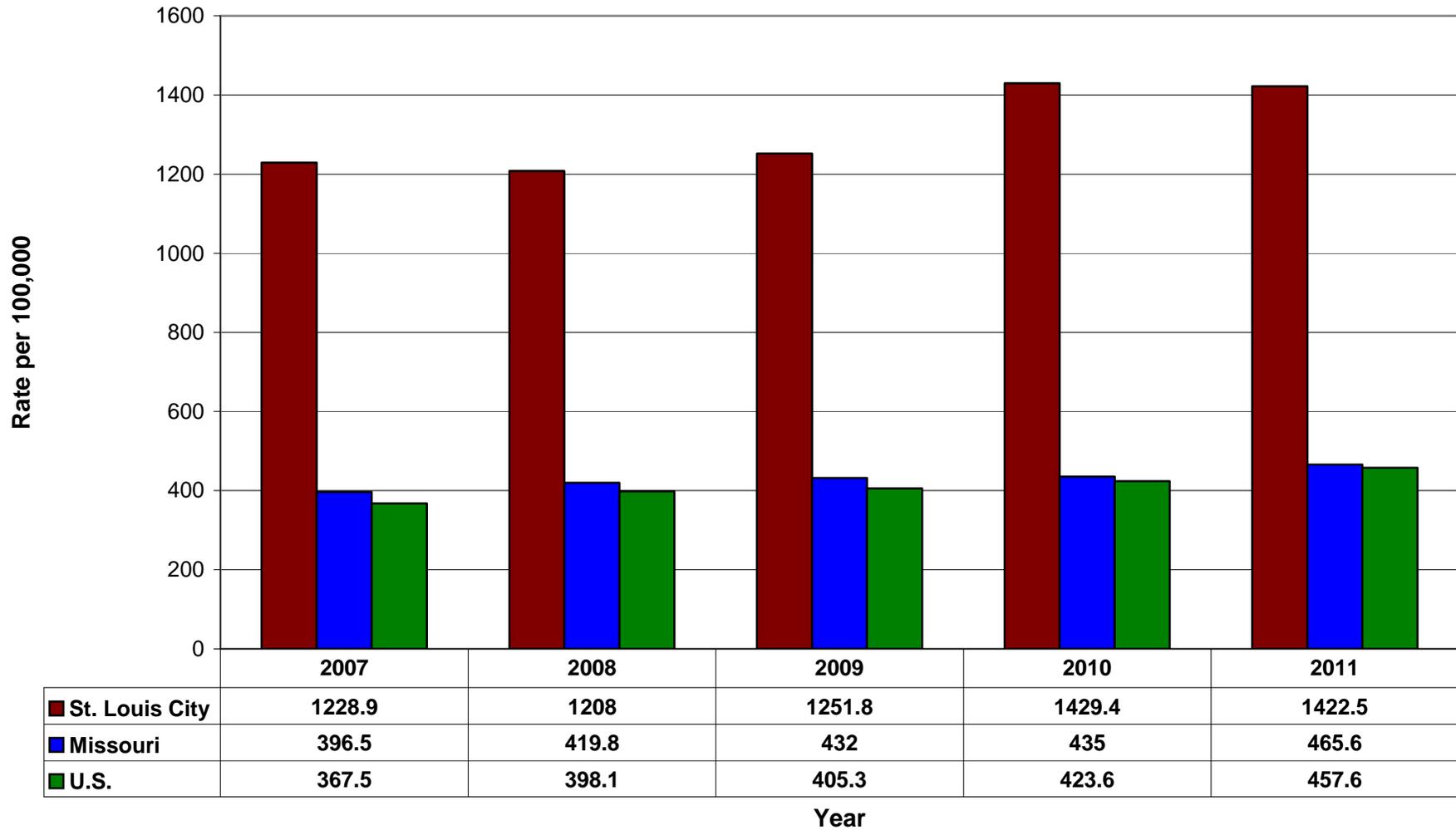
° Congenital Syphilis Rates for 2010 and 2011 are calculated using 2010 live birth data

**Source: 1994 - 2004: STD Surveillance Reports, Centers for Disease Control and Prevention website
2005 to 2011 from the Missouri Department of Health and Senior Services**

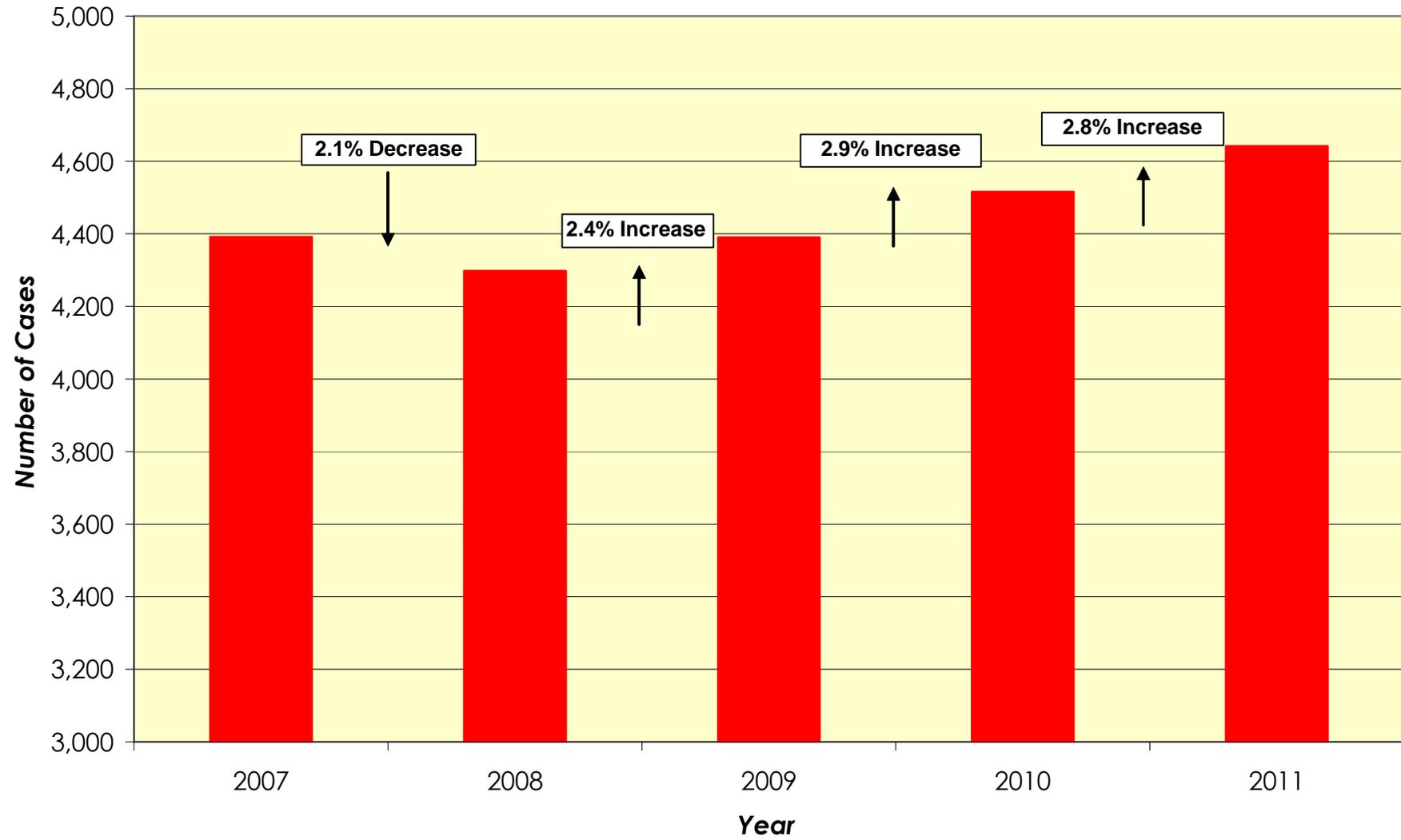
Chlamydia



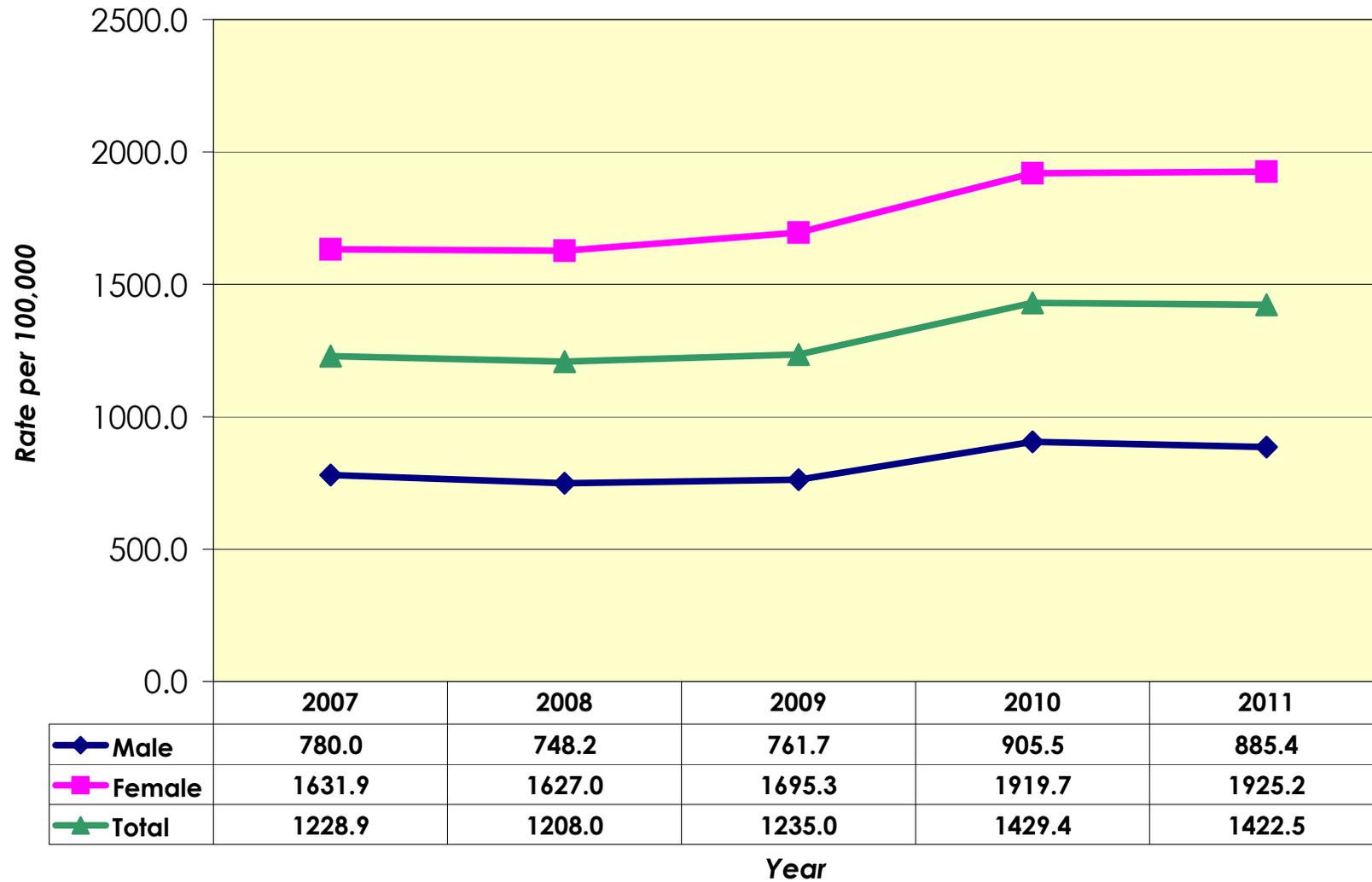
Comparison of Chlamydia Incidence Rates per 100,000 United States, Missouri, and City of St. Louis, 2007-2011



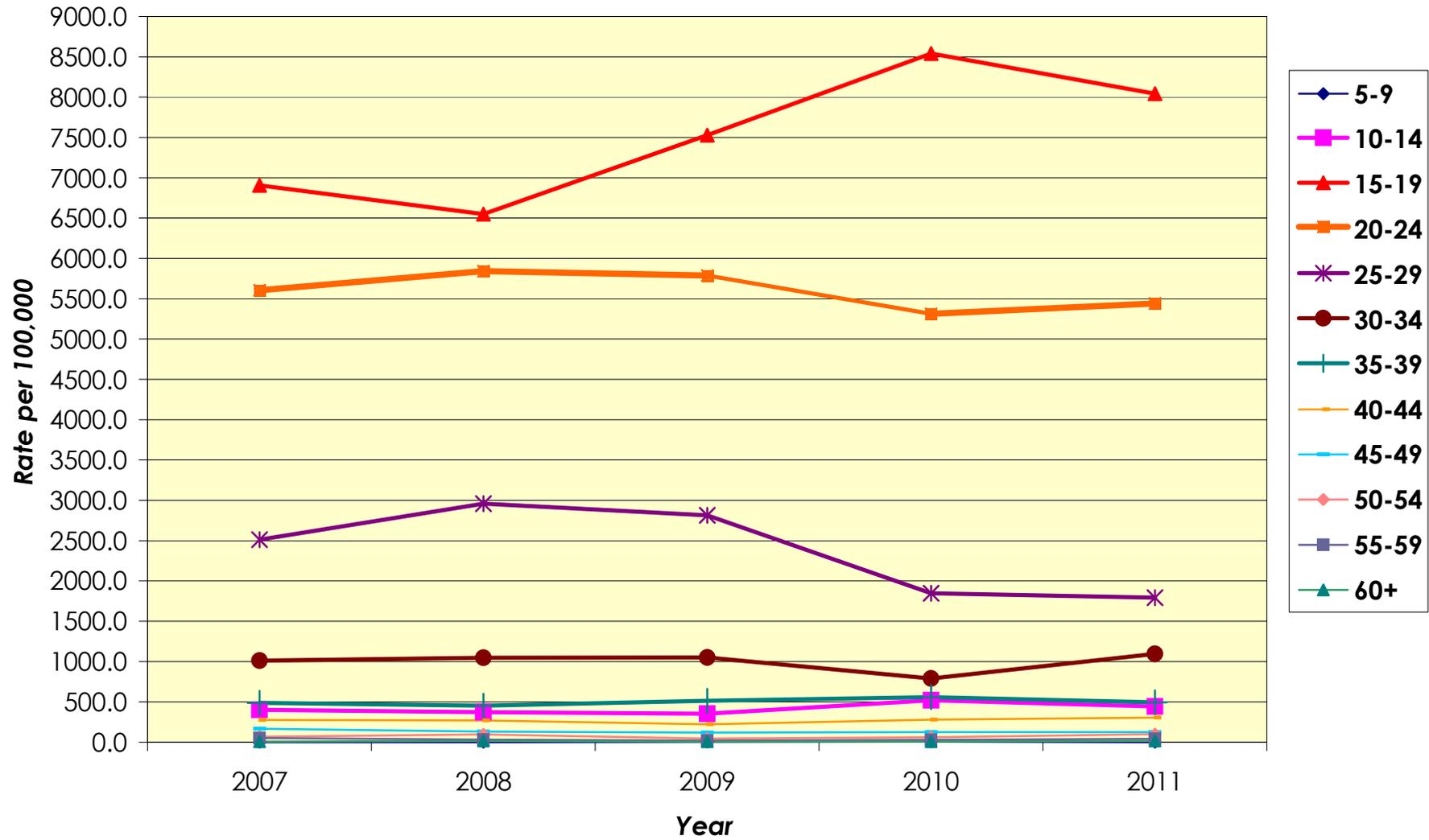
Cases of Chlamydia - City of St. Louis 2007-2011



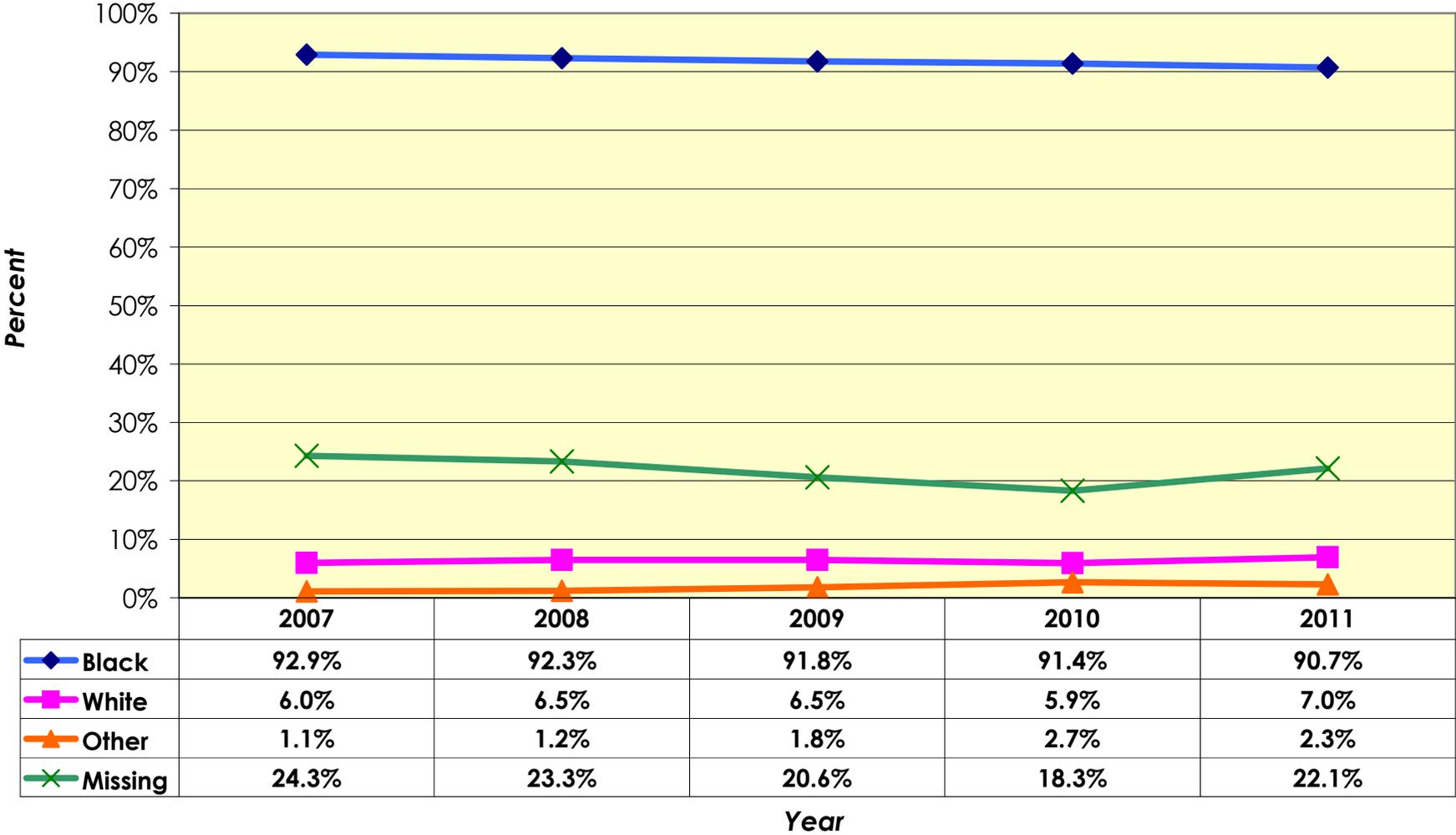
Chlamydia Rates per 100,000 population by Gender City of St. Louis, 2007-2011



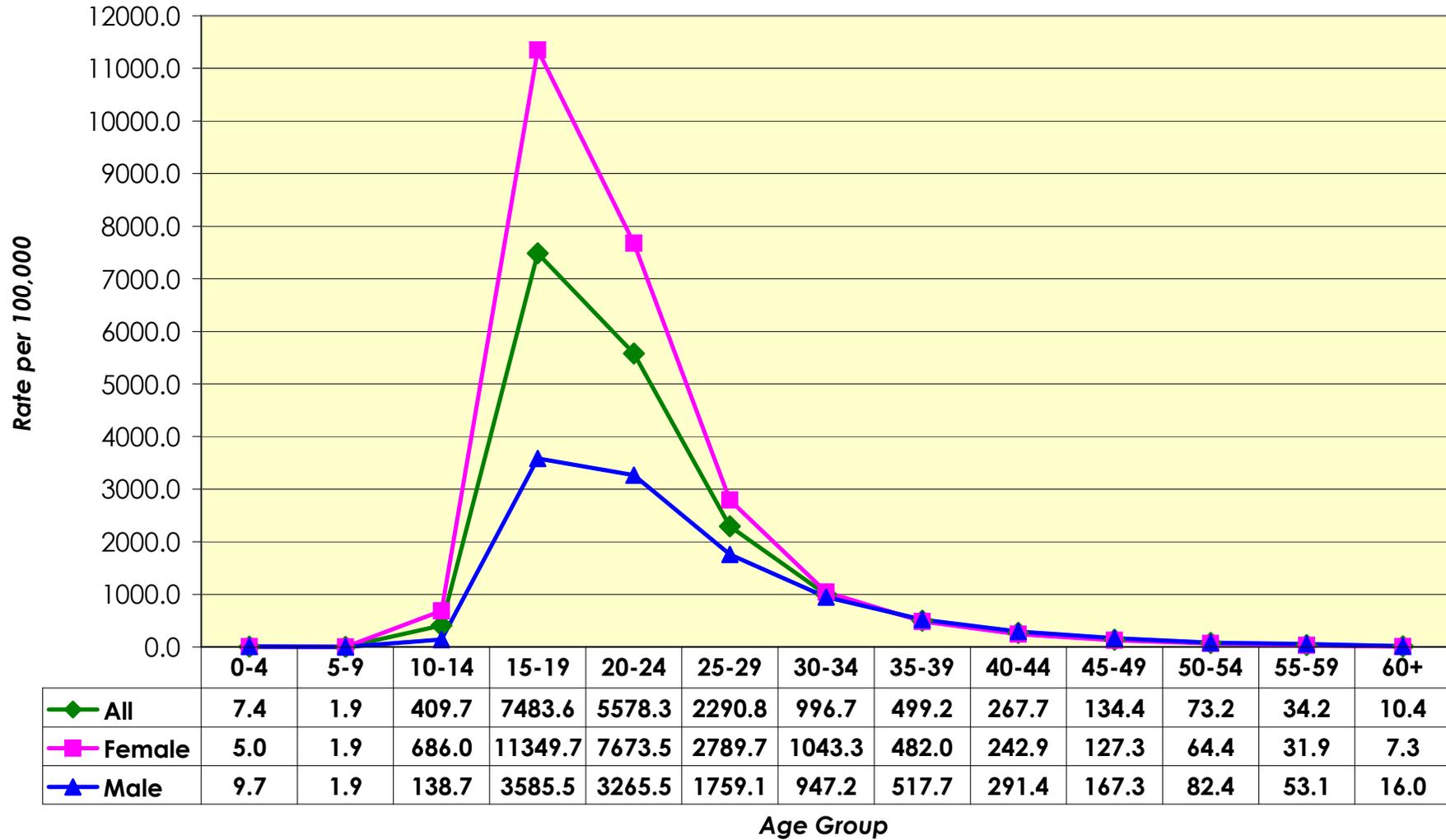
Chlamydia Rate per 100,000 Population by Age Group City of St. Louis 2007-2011



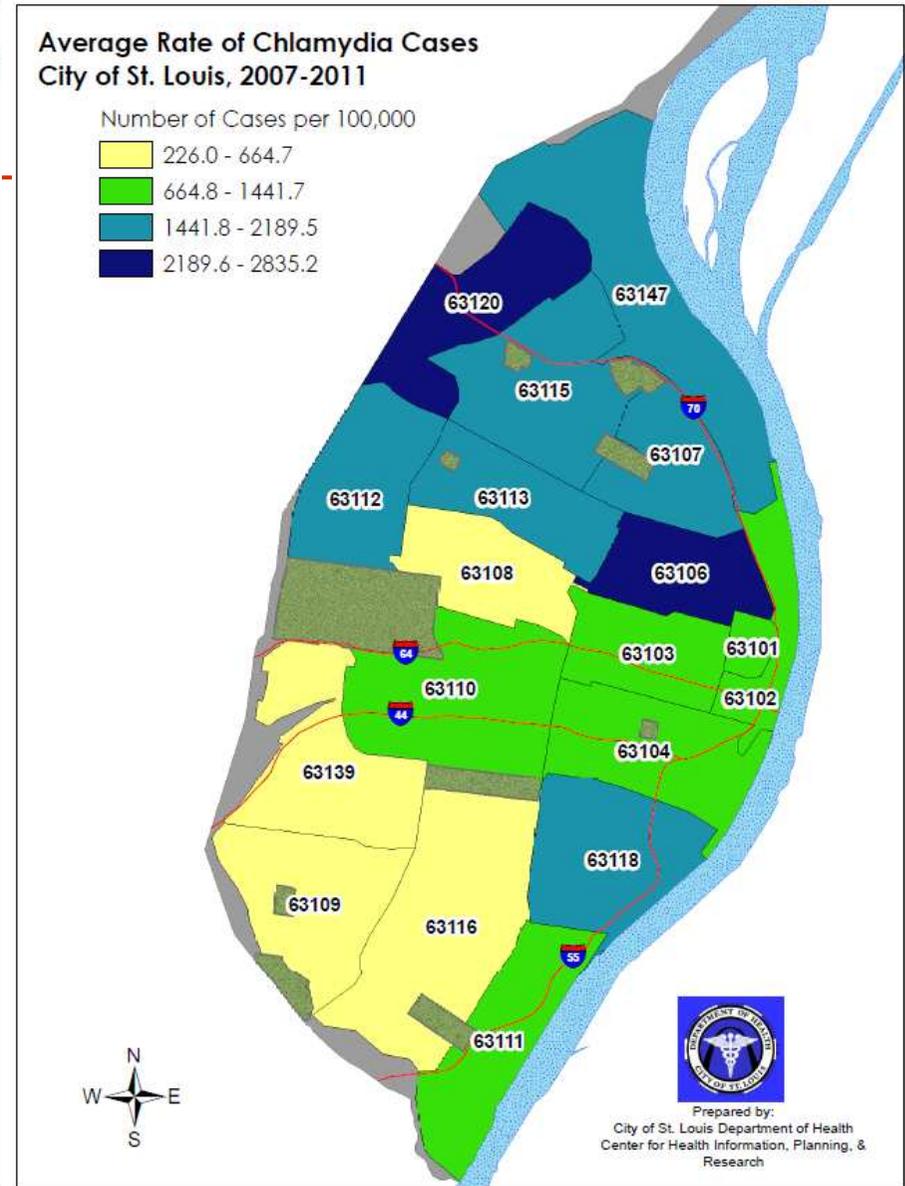
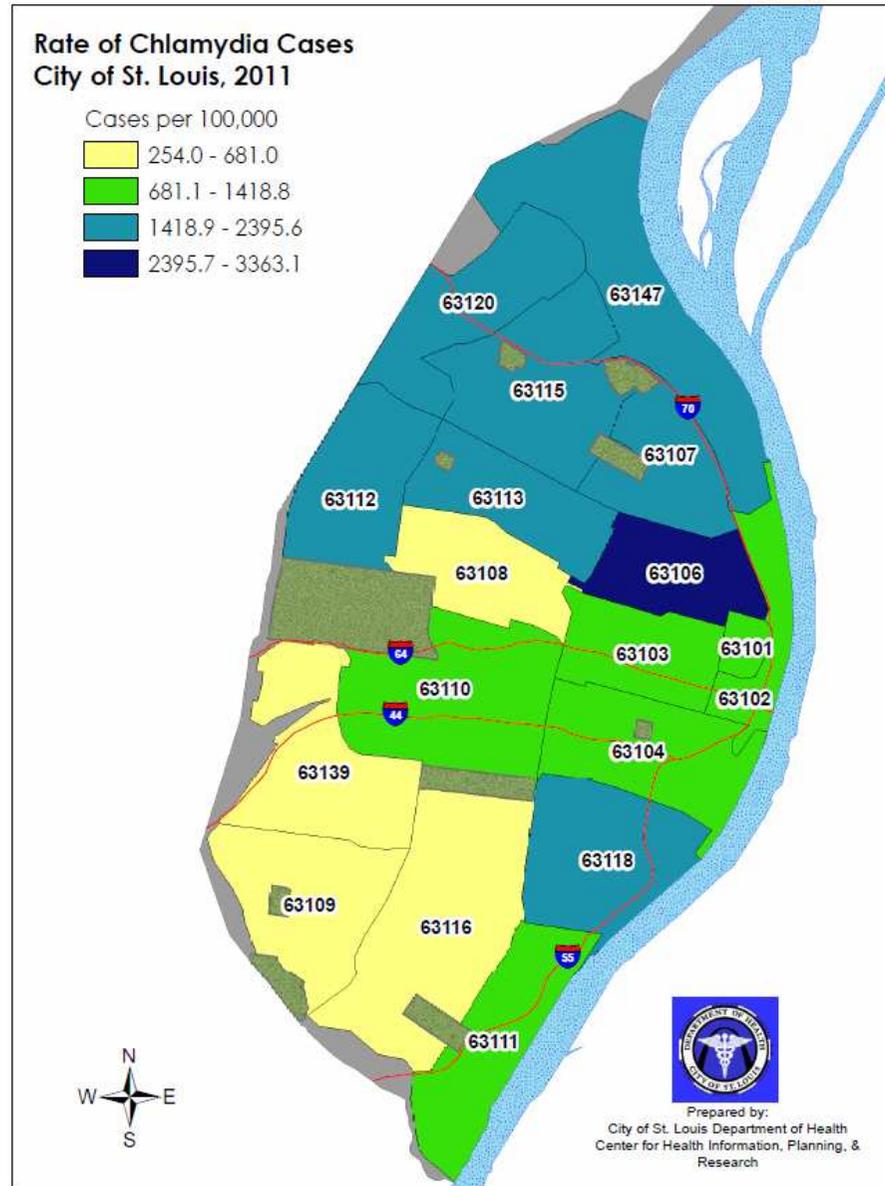
Percent of Chlamydia Cases by Known Race City of St. Louis, 2007-2011



Chlamydia Rates per 100,000 Population by Age Group and Gender City of St. Louis, 2007-2011 Five-Year Average



Zip Code Mapping



Chlamydia Compared

2007-2011 Average

4390.2 cases

70% Female*

92% Black**

73% 15-24 age group

Highest rate by zip code:

63106

63120

63113

2011

4642 cases

70% Female*

91% Black**

75% 15-24 age group

Highest rate by zip code:

63106

63120

63113

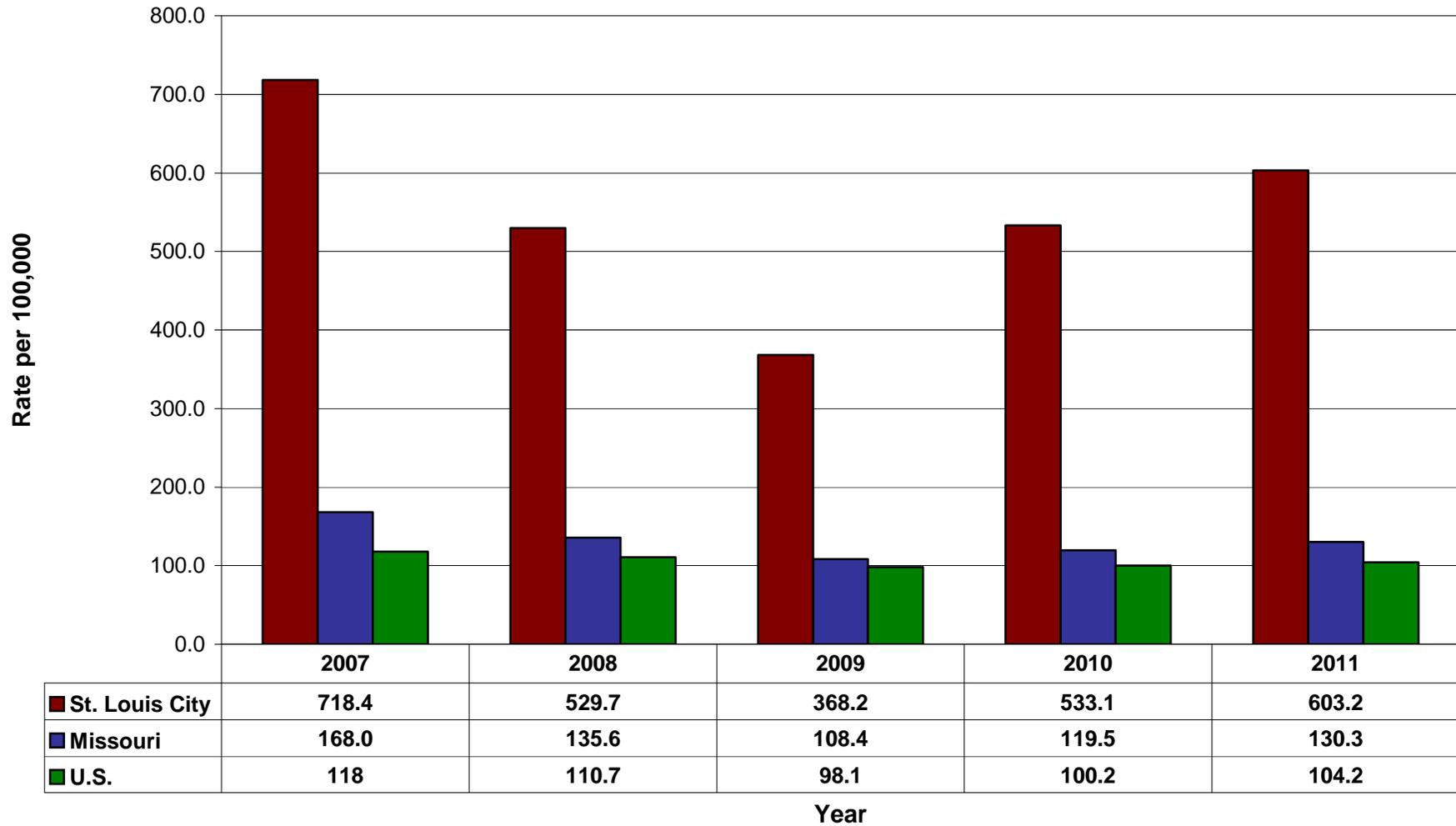
*Screening is targeted to women of child bearing age to prevent infertility, a complication of untreated Chlamydia infection. However, screening among females and males became more widespread between 2003-2004

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

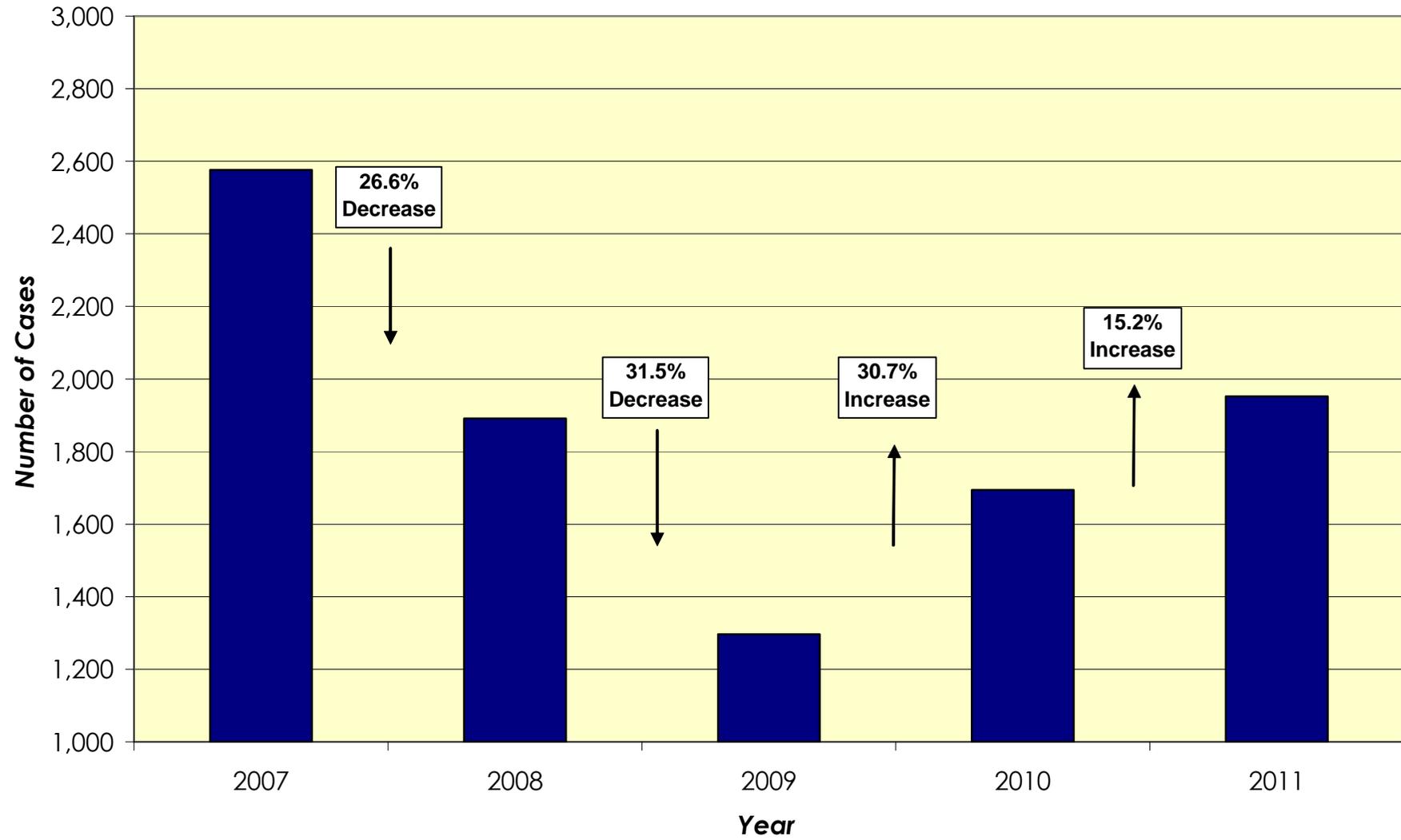
Gonorrhoea



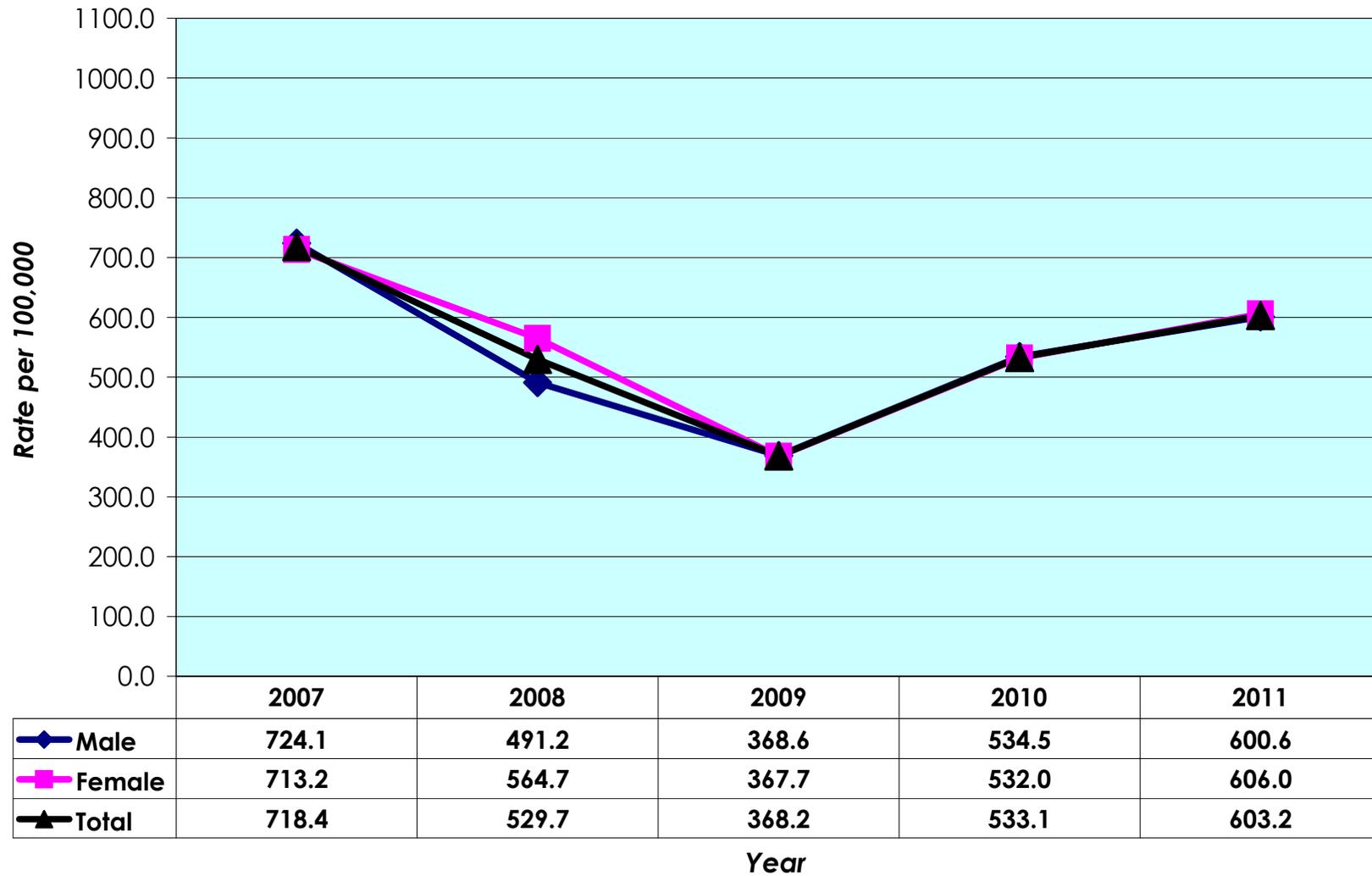
Comparison of Gonorrhea Incidence Rates per 100,000 United States, Missouri, and City of St. Louis, 2007-2011



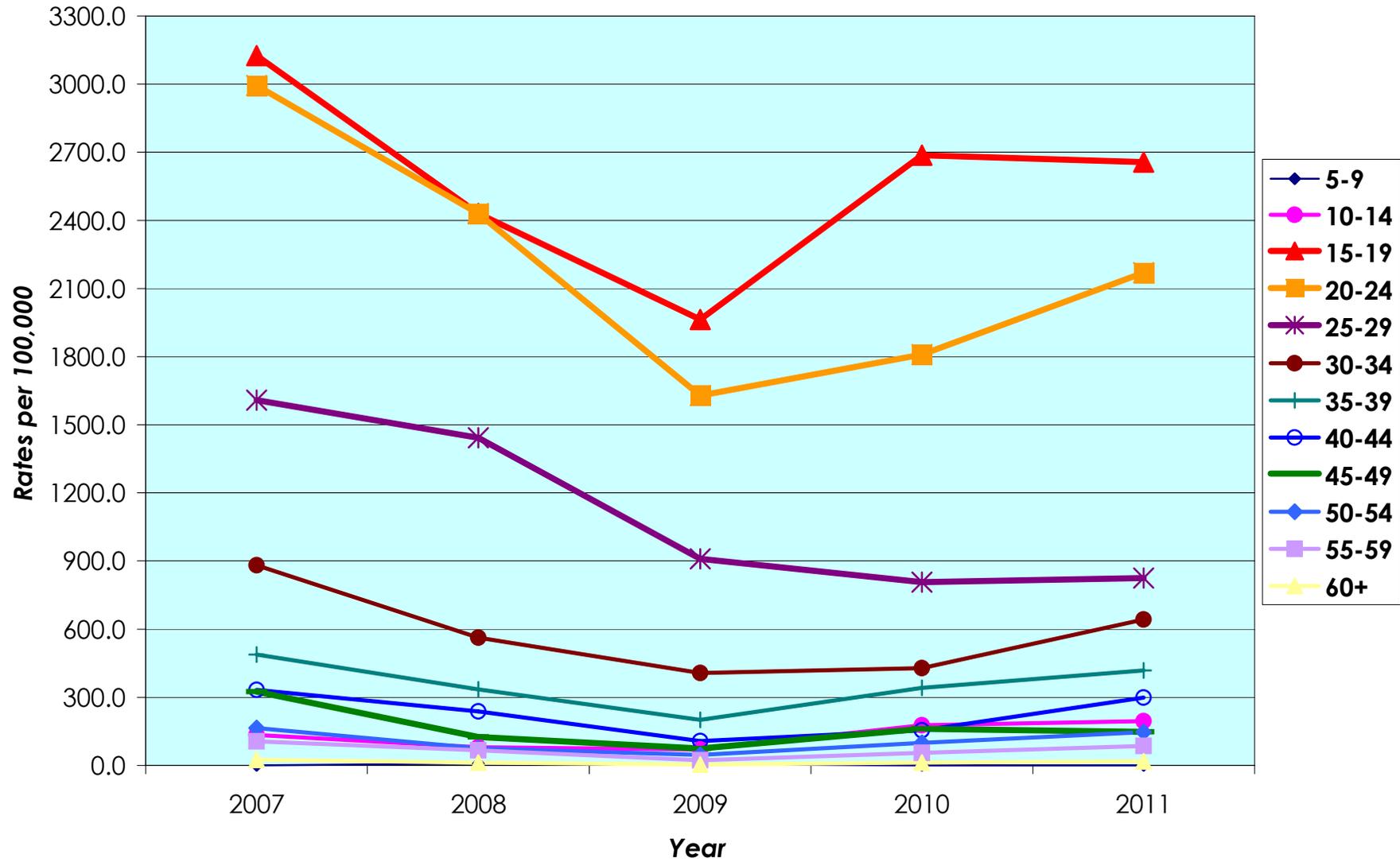
Cases of Gonorrhea - City of St. Louis 2007-2011



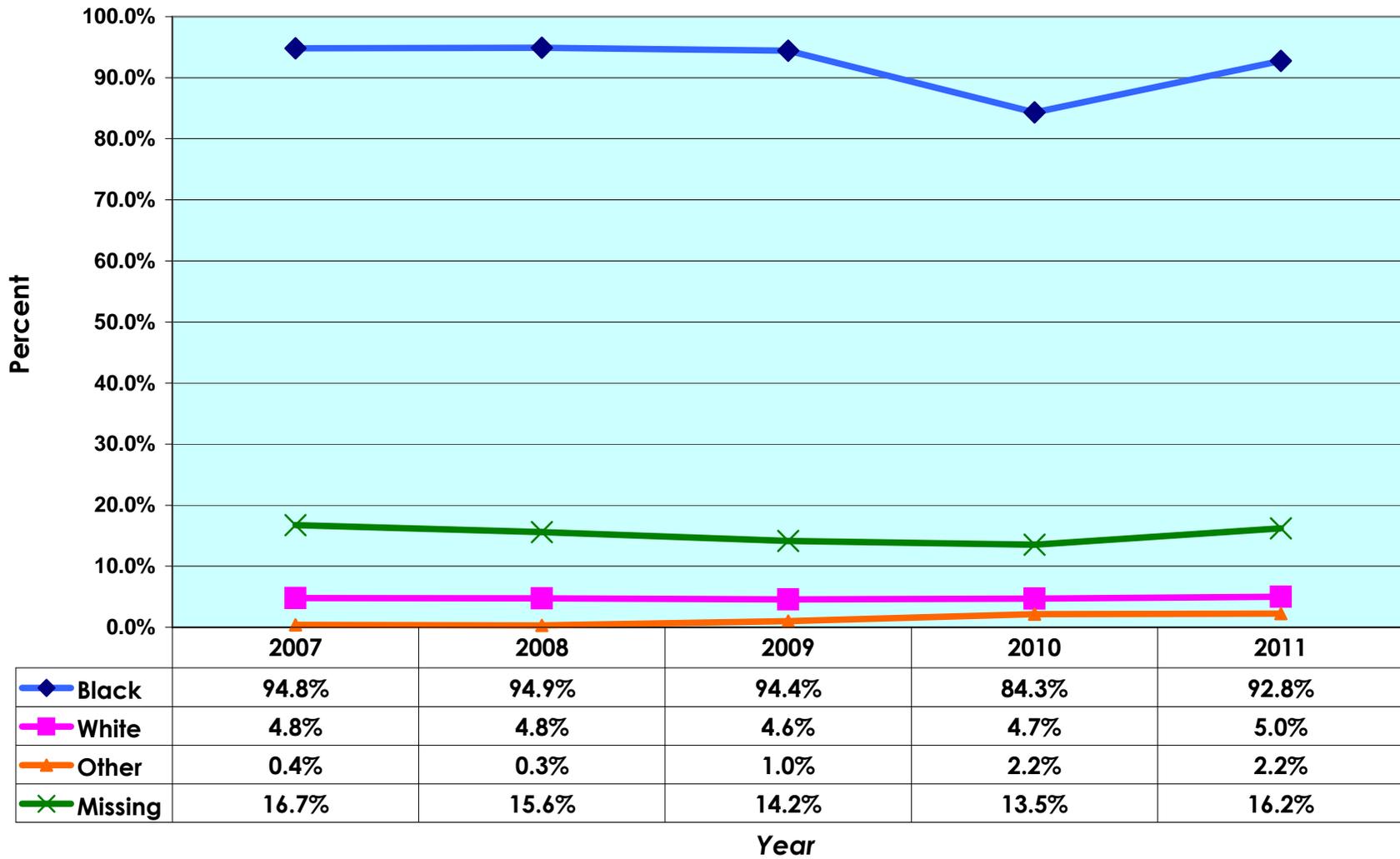
Gonorrhea Rates per 100,000 Population by Gender City of St. Louis 2007-2011



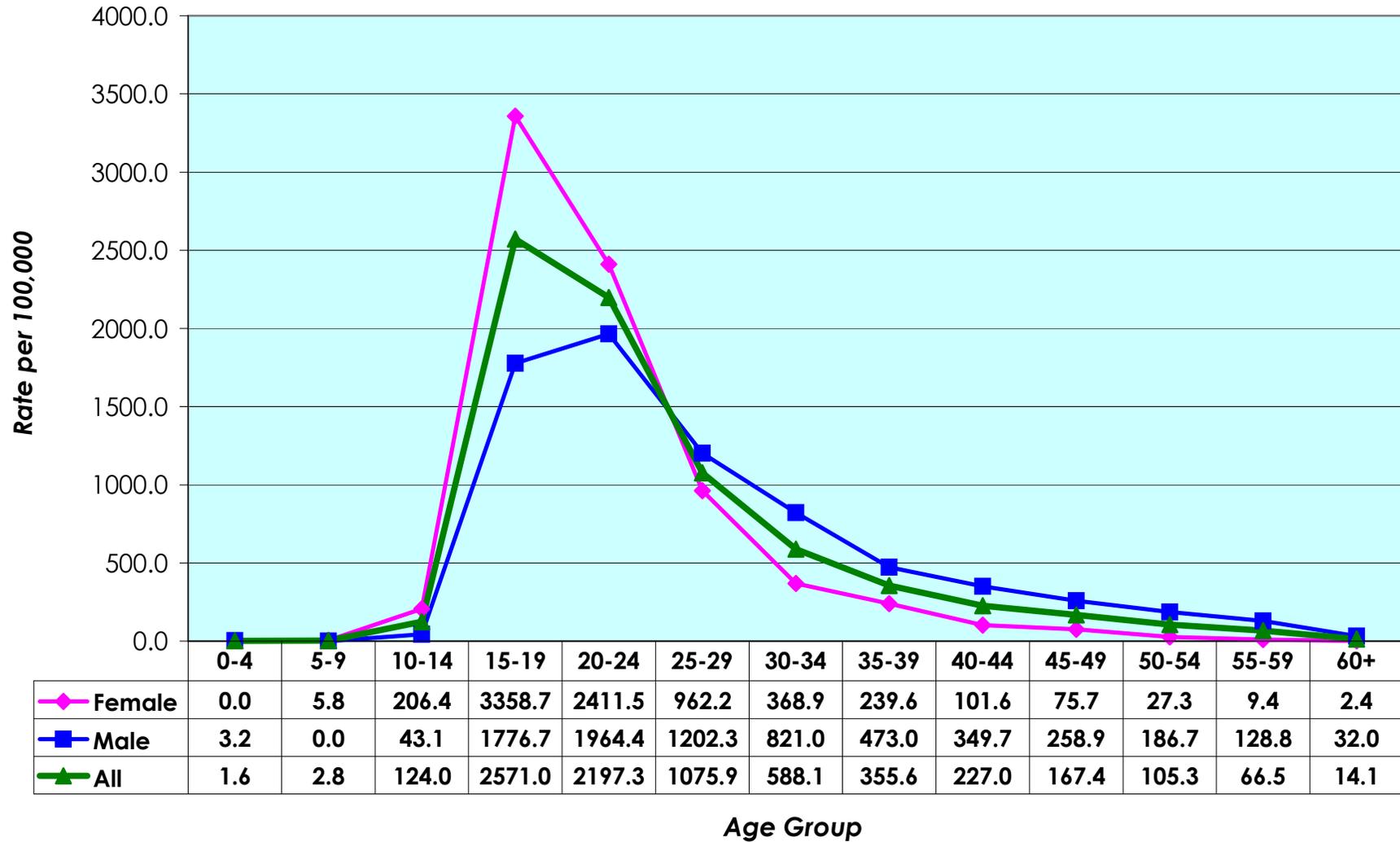
Gonorrhea Rates per 100,000 Population by Age Group
City of St. Louis 2007-2011



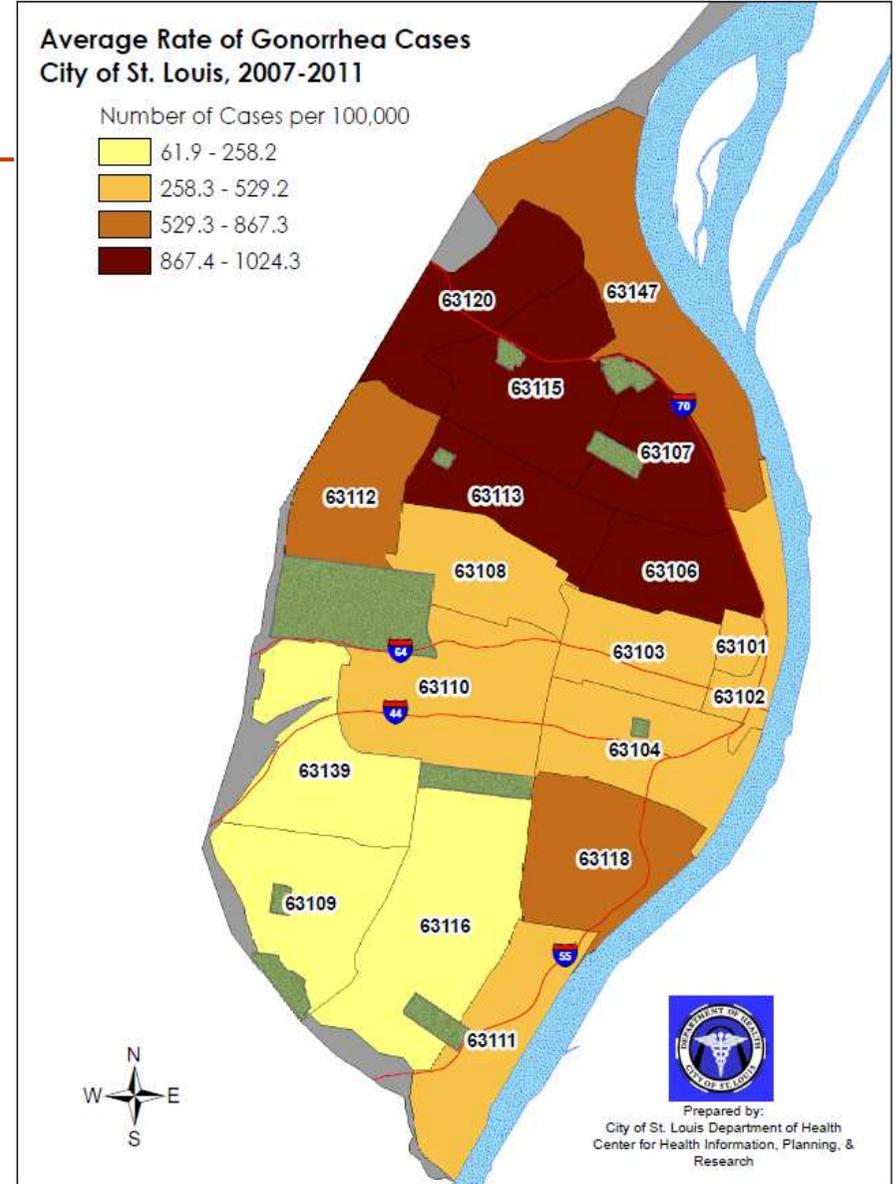
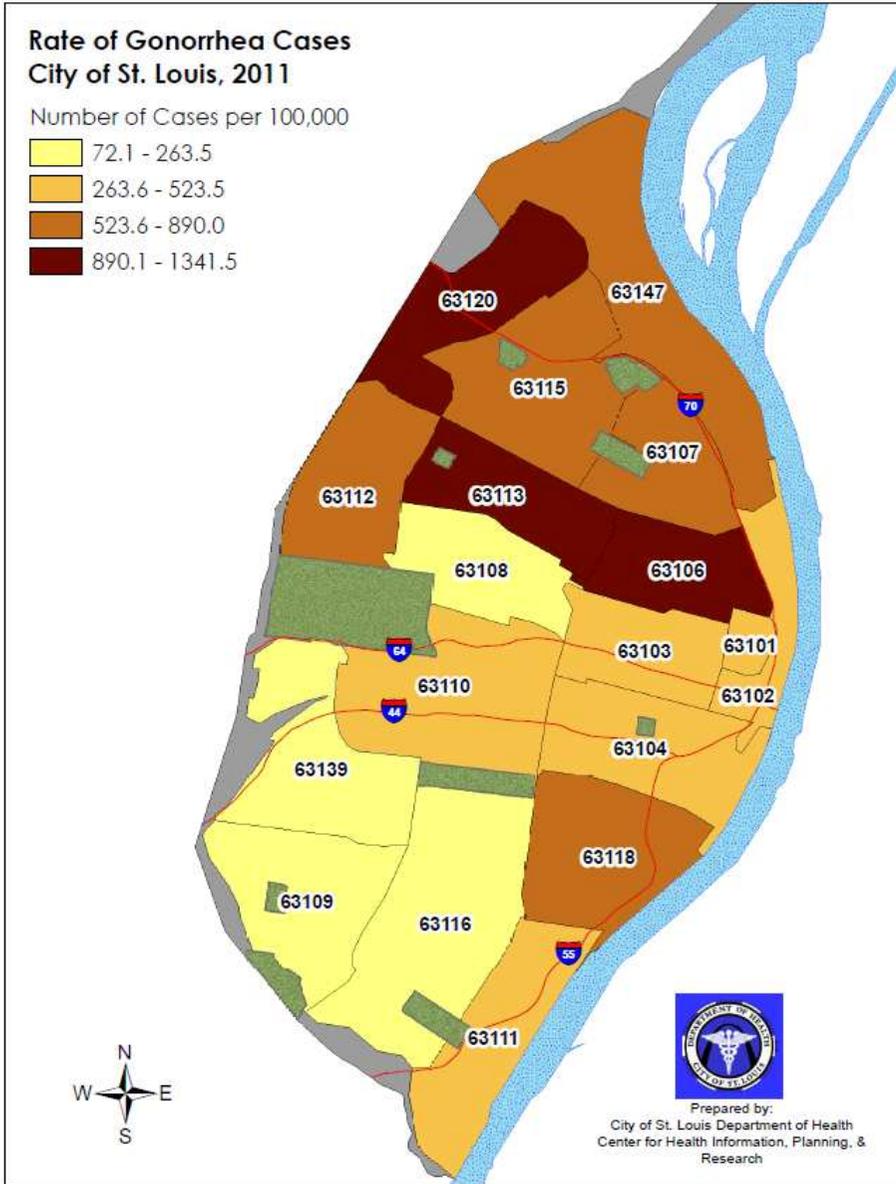
**Percent of Gonorrhea Cases by Known Race,
City of St. Louis 2007-2011**



Gonorrhea Rates per 100,000 City Population by Age Group and Gender - City of St. Louis, 2007-2011 Five-Year Average



Zip Code Mapping



Gonorrhea Compared

2007-2011 Average

1853.4 cases

53% Female

94% Black*

64% 15-24 age group

Highest rate by zip
code:

63106

63120

63113

2011

1926 cases

52% Female

93% Black*

64% 15-24 age group

Highest rate by zip
code:

63106

63113

63120

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

Female to Male Ratio of Cases by Year, City of St. Louis 2007-2011

Chlamydia (all ages)

Year	Female	Male	Ratio
2007	3023	1298	2.3
2008	2959	1240	2.4
2009	3066	1259	2.4
2010	3168	1396	2.3
2011	3177	1365	2.3
Five Year Average	3078.6	1311.6	2.3

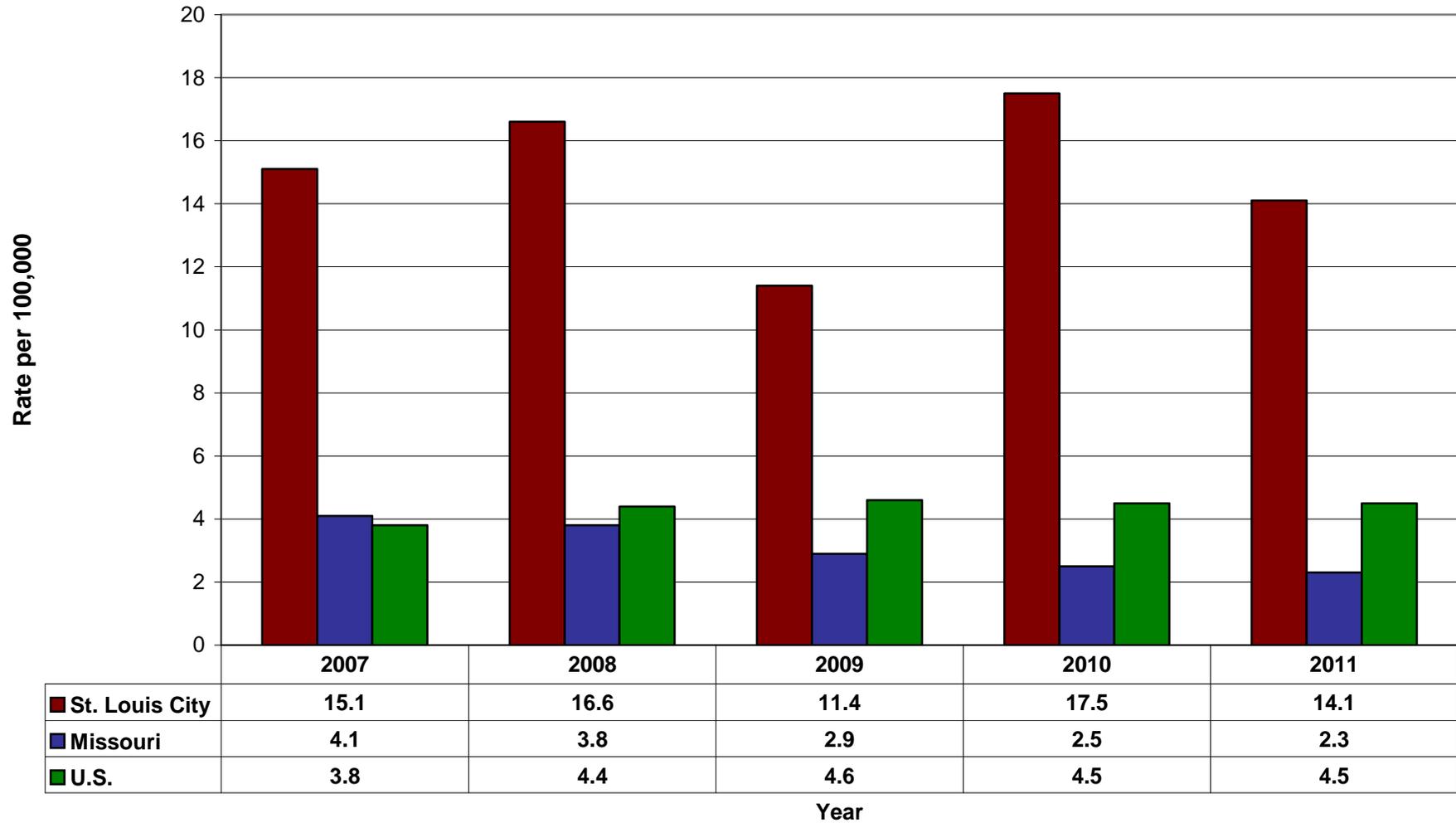
Gonorrhea (all ages)

Year	Female	Male	Ratio
2007	1321	1205	1.1
2008	1027	814	1.3
2009	665	607	1.1
2010	878	824	1.1
2011	1000	926	1.1
Five Year Average	978.2	875.2	1.1

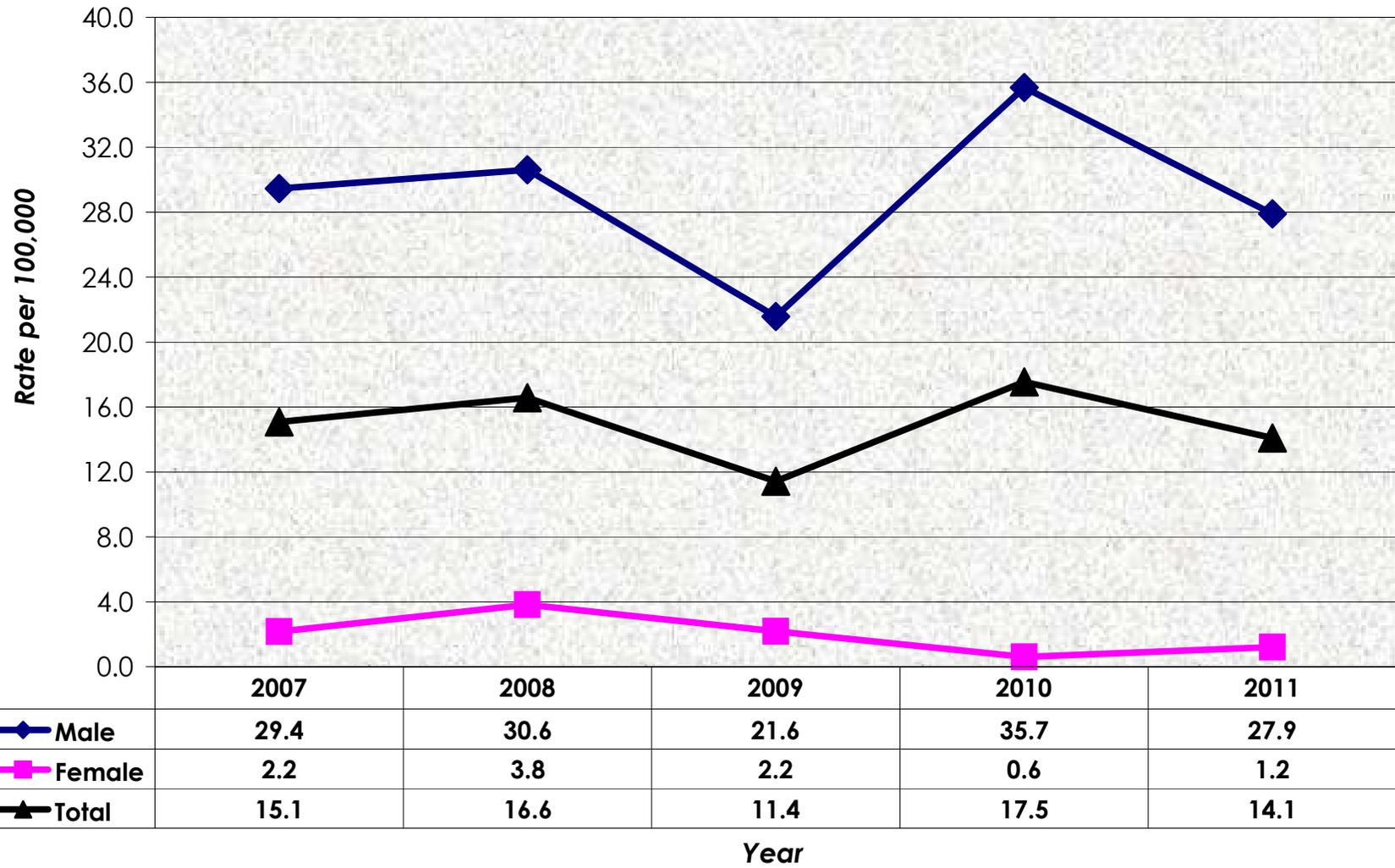
Primary and Secondary Syphilis



Comparison of Primary & Secondary Syphilis Incidence Rates per 100,000 United States, Missouri, and City of St. Louis, 2007-2011



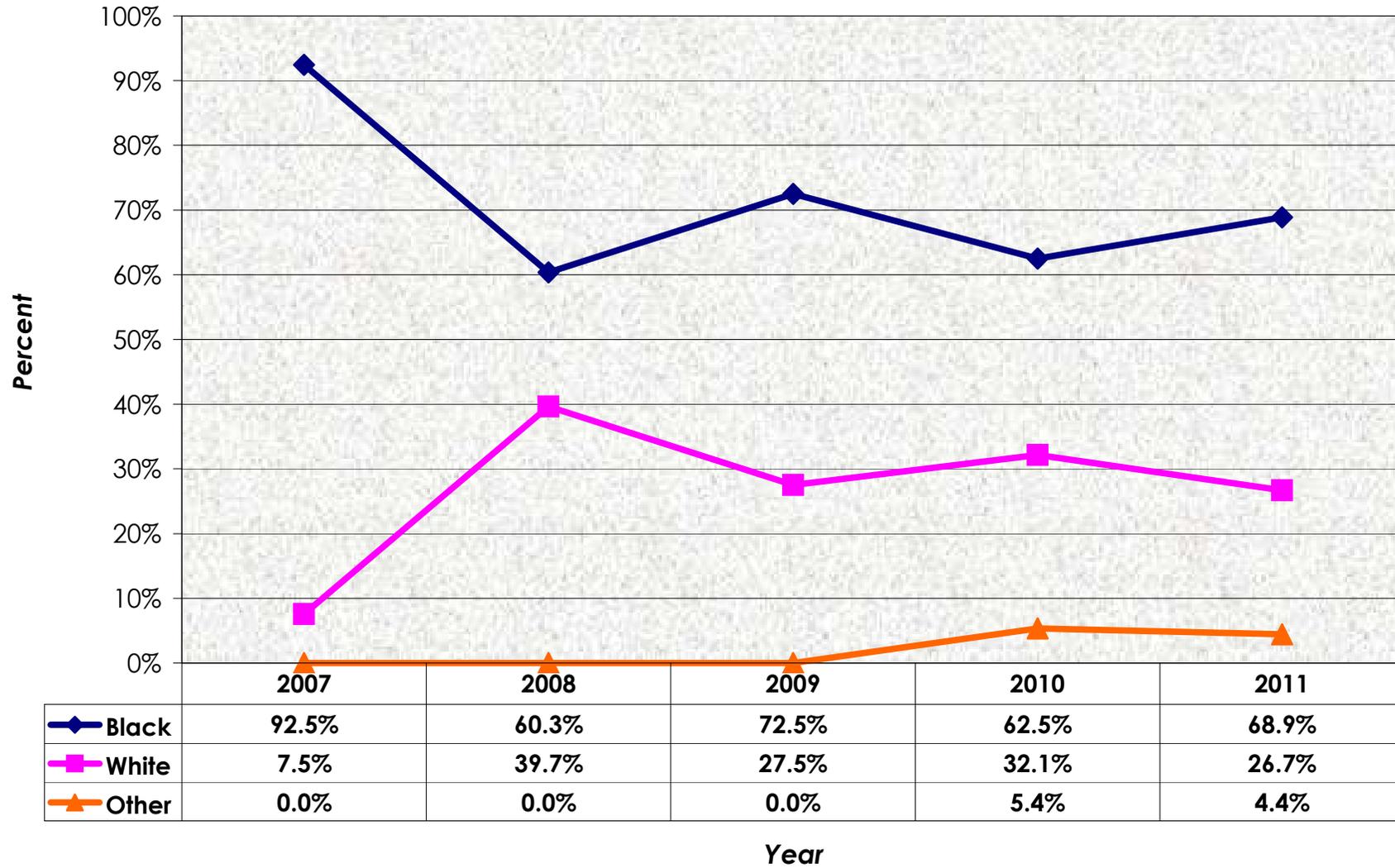
**Primary & Secondary Syphilis Rates per 100,000 Population by Gender,
City of St. Louis 2007-2011**



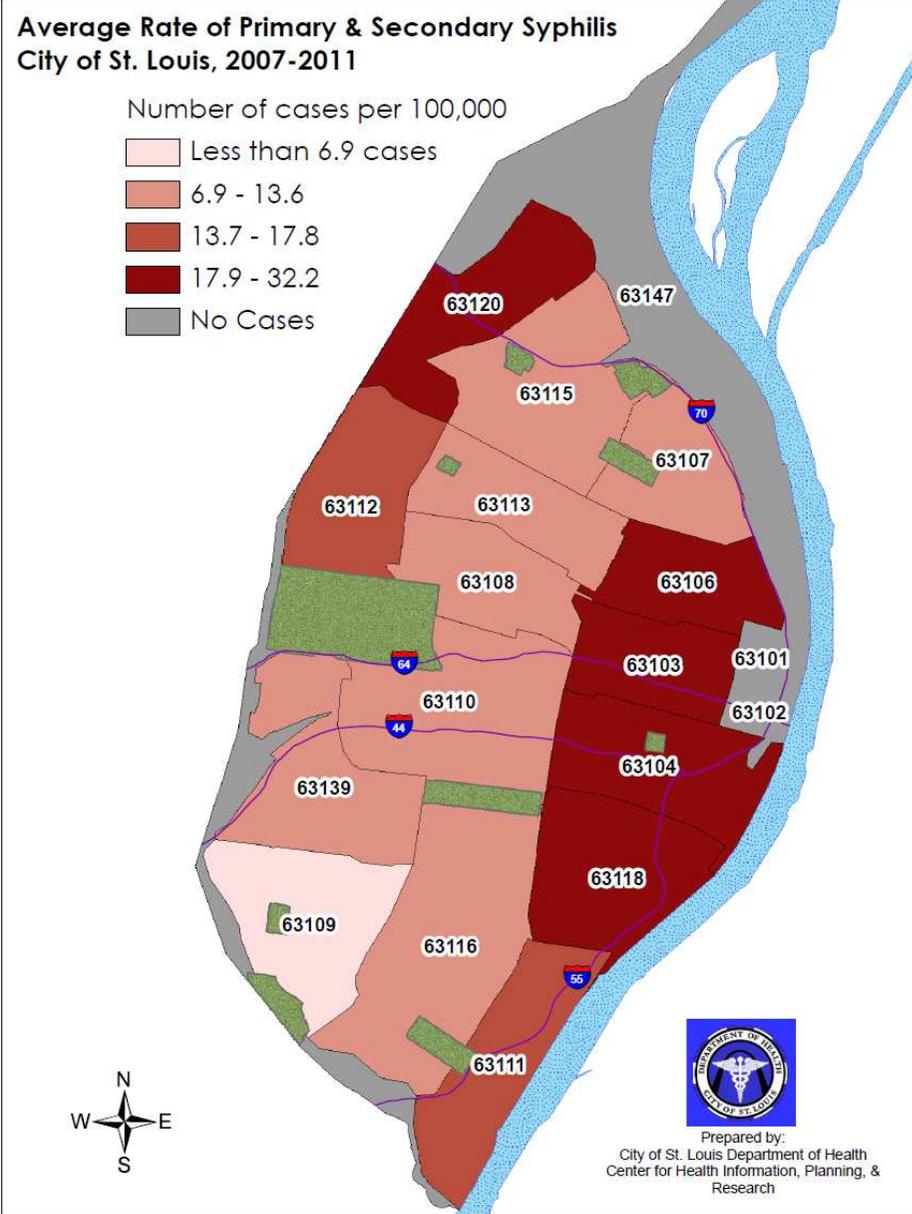
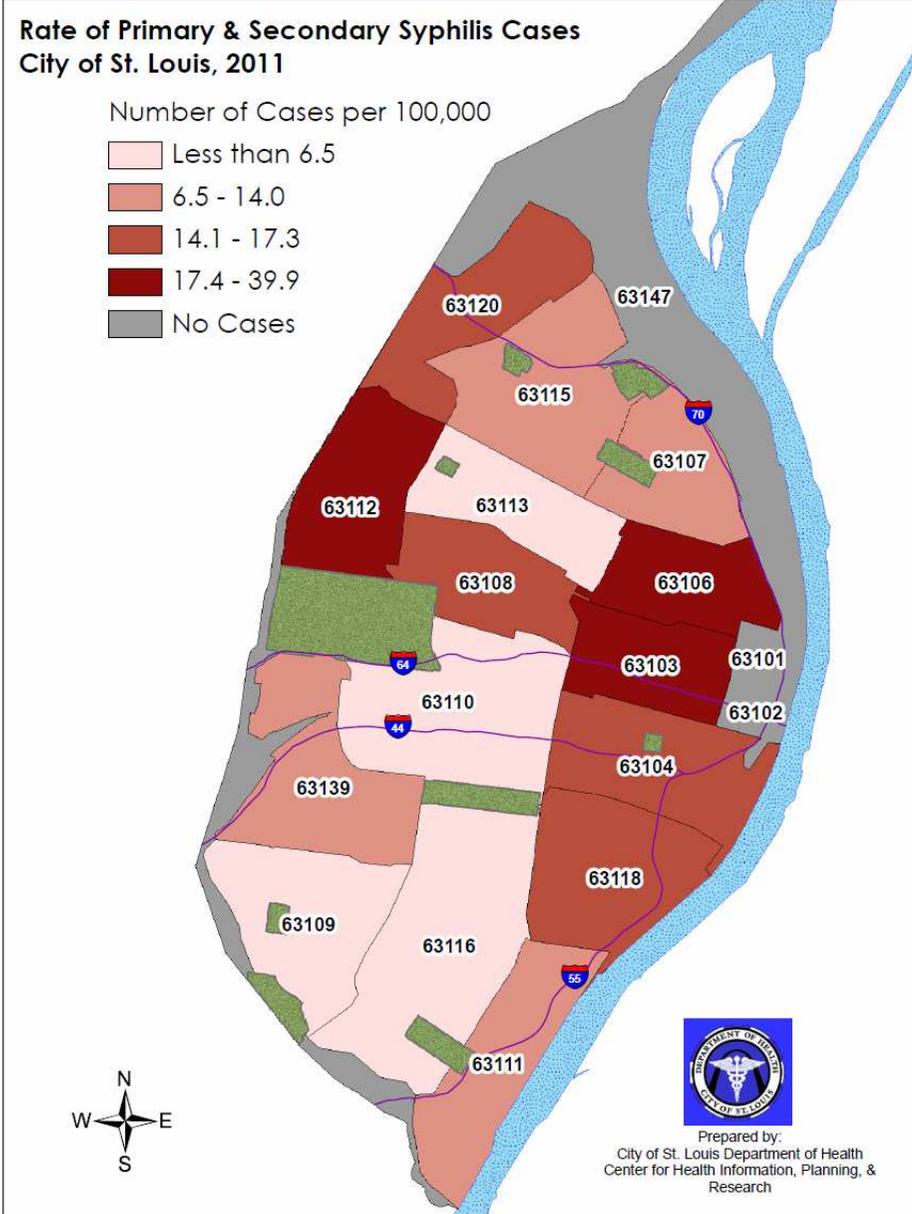
**Rates of Primary & Secondary Syphilis per 100,000 Population by Age Group,
City of St. Louis 2007-2011**



Percentage of Primary and Secondary Syphilis Cases by Race City of St. Louis 2007-2011



Zip Code Mapping



Primary & Secondary Syphilis Compared

2007-2011 Average

50.4 cases

93% Male

71% Black

61% 25-49 age group

Highest rate by Zip

Code:

63103

63118

63103

2011

45 cases

96% Male

69% Black

60% 25-49 age group

Highest rate by Zip

code:

63112

63106

63103

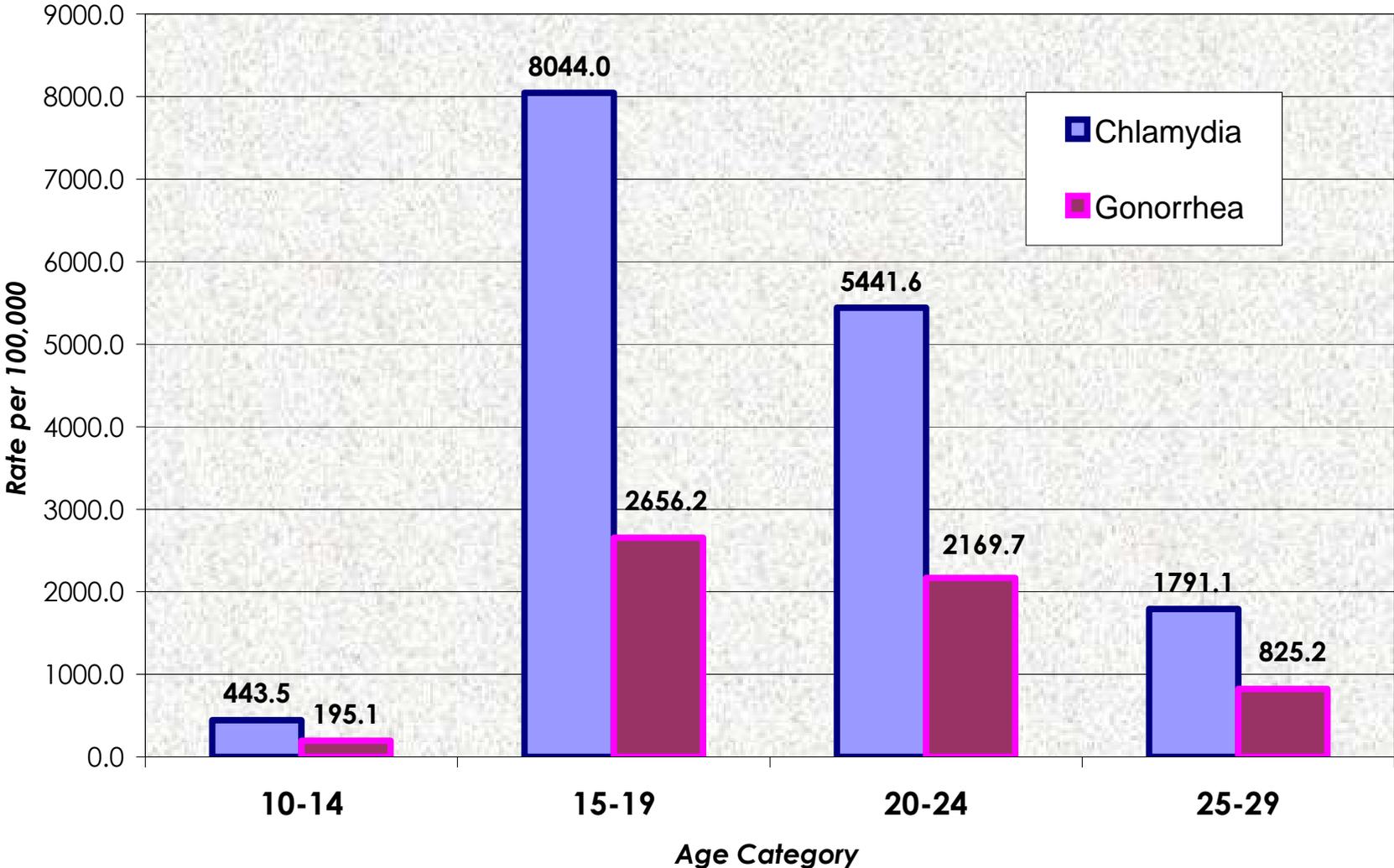
Male to Female Ratio of Primary and Secondary Syphilis Cases by Year, 2007-2011 City of St. Louis

Year	Male	Female	Ratio
2007	49	4	12.3
2008	51	7	7.3
2009	36	4	9.0
2010	55	1	55.0
2011	43	2	21.5
Five-Year Average	46.8	3.6	13.0

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, 2011**



Female to Male Ratio of Cases by Year, City of St. Louis 2007-2011

Chlamydia (Ages 15-19)

Year	Female	Male	Ratio
2007	1301	409	3.2
2008	1260	368	3.4
2009	1409	420	3.4
2010	1439	487	3.0
2011	1373	441	3.1
Five Year Average	1356.4	425	3.2

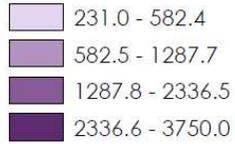
Gonorrhea (Ages 15-19)

Year	Female	Male	Ratio
2007	506	268	1.9
2008	421	183	2.3
2009	303	174	1.7
2010	380	226	1.7
2011	397	202	2.0
Five Year Average	401.4	210.6	1.9

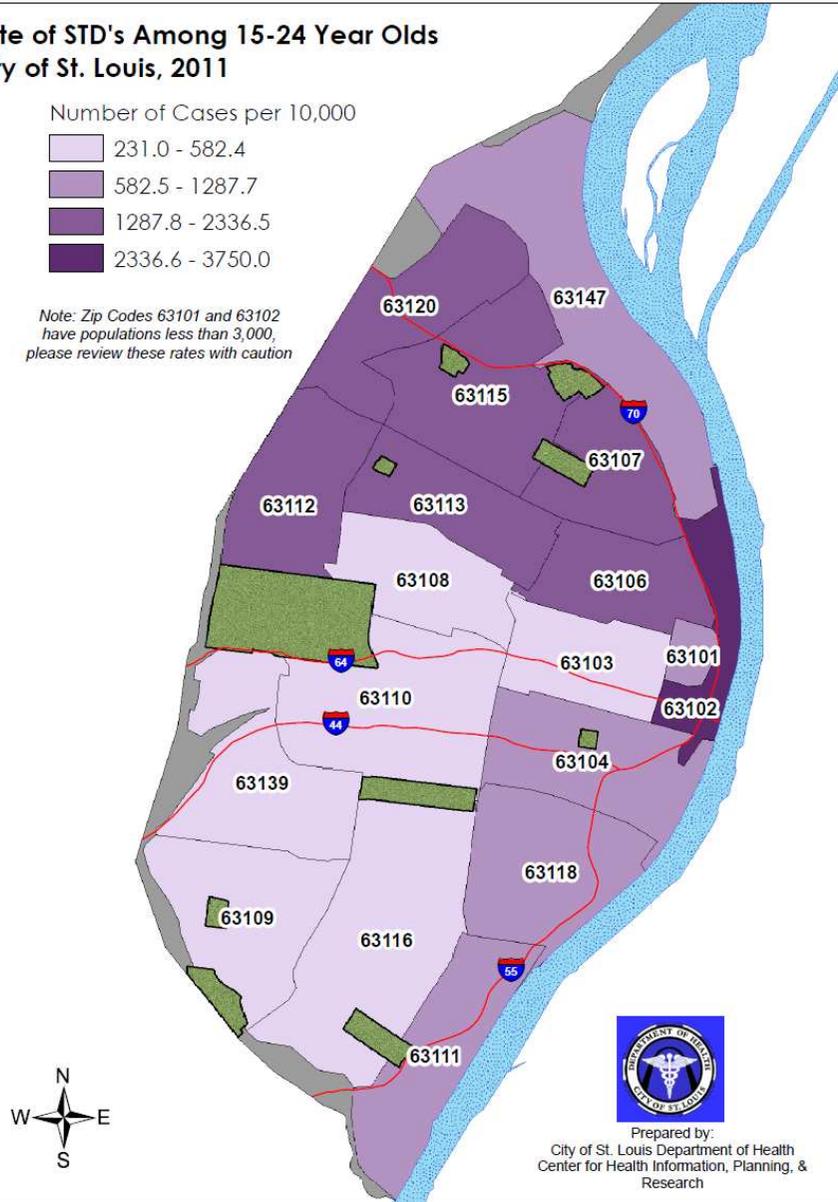
Zip Code Mapping

**Rate of STD's Among 15-24 Year Olds
City of St. Louis, 2011**

Number of Cases per 10,000

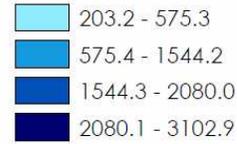


*Note: Zip Codes 63101 and 63102
have populations less than 3,000,
please review these rates with caution*



**Rate of STD's Among 15-24 Year Olds
City of St. Louis, 3-Year Average**

Number of Cases per 10,000



*Note: Zip Codes 63101 and 63102
have populations less than 3,000,
please review these rates with caution*

