

# North Carolina HIV/STD Quarterly Surveillance Report: Vol. 2014, No. 4

## HIV/STD Surveillance Unit

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### ANNOUNCEMENTS:

The North Carolina sexually transmitted disease (STD) surveillance data system underwent extensive changes in 2012 and 2013 as North Carolina implemented reporting for human immunodeficiency virus (HIV) infection, including acquired immunodeficiency syndrome (AIDS), and syphilis into North Carolina Electronic Disease Surveillance System (NC EDSS). Reporting delays and changes in reporting processes for these two conditions may have substantially affected data.

**Readers should consider the data in this report to be *preliminary*.** Readers are also cautioned that these data represent reports for short time periods and that changes noted from quarter to quarter may not be meaningful. The data system changes for HIV and syphilis in 2012 and 2013 have increased this likelihood for data reported in that period. Some cases listed in this report are considered presumptive; their status may change as case investigation continues.

If you have questions or comments, please contact us at the address or phone number above.

### About the authors

North Carolina law requires that diagnoses of certain communicable diseases, including sexually transmitted diseases (STDs), be reported to local health departments that in turn report the information to the state. The HIV/STD Surveillance Unit (HSSU) is the designated recipient for STD morbidity reports at the state level and is responsible for aggregating reports and providing statewide information about these diseases to others, including the Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia. The HSSU is part of the Communicable Disease Branch within the North Carolina Division of Public Health.

### About the contents of this report

The *North Carolina HIV/STD Surveillance Report: Vol. 2014, No. 4* presents statistics and trends of sexually transmitted diseases (including HIV and AIDS) in North Carolina from January 1 through December 31, 2014. All reports are presented by the date received by the HSSU. This report is intended as a reference document for local health departments, program managers, health planners, researchers and others who are concerned with the public health implications of these diseases. **The information in this quarterly report is meant to be brief and provide limited data on these diseases throughout the year. More detailed and complete information will continue to be available in annual publications.** This report and our annual publications are available on our website (<http://epi.publichealth.nc.gov/cd/stds/figures.html>). The CDC maintains data about these diseases for the United States; national information is available from its website (<http://www.cdc.gov/hiv/library/reports/surveillance/>).



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## HIV Infection Surveillance Data

**Human immunodeficiency virus (HIV) infection case reports** represents all new diagnoses with HIV in North Carolina regardless of the stage of the disease (including acquired immunodeficiency syndrome [AIDS]). Most persons are reported with only an HIV infection, but some persons are reported with a concurrent diagnosis of AIDS (an AIDS diagnosis within six months of the initial HIV infection diagnosis). In North Carolina, about one-quarter of the new HIV infection reports represent persons who are diagnosed with HIV infection and AIDS at the same time. **AIDS case reports**, by contrast, represent only persons with HIV infection who have progressed to this later, more life threatening, stage of disease. For these reasons, HIV infection reports and AIDS case reports should be considered separately. The two categories should never be combined to estimate an infected population, as the broad group of HIV disease includes AIDS cases, and combining the two categories would therefore double-count the AIDS cases. **HIV infection and AIDS cases are both presented by date of report in this publication.** This gives a preliminary look at HIV infection surveillance for 2014. Because HIV and AIDS morbidity trends are better described using date of diagnosis rather than date of report, only summary counts for the counties and a state total are provided. Annual reports and the HIV/STD Epidemiologic Profile present HIV infections by **date of diagnosis**, not date of report, and therefore should not be compared to the quarterly report. Also, HIV and AIDS cases diagnosed/reported from long-term care institutions, such as prisons, are not included in county totals, but are listed under “Unassigned” county.

## Chlamydia Surveillance Data

Chlamydia case reports represent persons who have a laboratory-confirmed chlamydial infection. It is important to note that chlamydial infection is often asymptomatic in both males and females, and most cases are detected through screening. The disease can cause serious complications in females, and a number of screening programs are in place to detect infection in young women. There are no comparable screening programs for young men. For this reason, chlamydia case reports are always highly biased with respect to gender. Changes in the number of reported cases may be due to changes in screening practices. Increases in morbidity totals since 2008 are likely to be the result of enhancements in laboratory reporting. Chlamydia infections are presented by **date of report** in this publication.

## Gonorrhea Surveillance Data

Gonorrhea case reports represent persons who have a laboratory-confirmed gonorrhea infection. Gonorrhea is often symptomatic in males and slightly less so in females. Many cases are detected when patients seek medical care. Others are detected through screening, but to a far lesser degree than chlamydia cases. Gonorrhea can cause serious complications for females, and a number of screening programs exist targeting this population. There is less screening of males but since they are more likely to have symptoms that would bring them to the STD clinic, gender bias in gonorrhea reporting is not likely to be large. Public clinics and health departments may do a better job of conducting such screening programs and reporting cases, causing the reported cases to be biased toward those attending public clinics. Gonorrhea infections are presented by **date of report** in this publication.

## Syphilis Surveillance Data

Syphilis cases are reported by stage of infection, which is determined through a combination of laboratory testing and patient interviews. Primary and secondary syphilis have very specific symptoms associated with them, so misclassification of these stages is highly unlikely. Early latent syphilis is asymptomatic but can be staged with confirmation that the person has been infected for less than a year. Together these three stages that occur within the first year of infection are called “early syphilis.” This report includes only early syphilis cases, though other later stages are reported to HSSU. Because North Carolina performs patient interviews, partner notification, and contact tracing on all early syphilis cases, the quality of the early latent case data is also quite good. Screening programs are more likely to detect asymptomatic cases, which may introduce some bias in the early latent case reports toward screened populations (pregnant women, jail inmates, others). But, thorough contact tracing further aids in case detection and reduces these biases. Syphilis infections are presented by **date of report** in this publication; however, in the annual report and HIV/STD Epidemiologic Profile, infections are presented by **date of diagnosis**.

## For more information

The data descriptions provided on this page are succinct. For a more detailed discussion of the content, strengths, and weaknesses of STD and HIV surveillance data, please see Appendix B in the *Epidemiologic Profile for HIV/STD Prevention & Care Planning, December 2012*. This report can be found on our website <http://epi.publichealth.nc.gov/cd/stds/figures.html>.

North Carolina HIV/STD Surveillance Report Vol. 2014, No.4

Table 1. North Carolina Newly Reported Chlamydia Infections by Gender and Age, 2014

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2014 Total	
		Cases	%	Cases	%	Case	%	Cases	%	Cases	%
Male	Unknown	--- <sup>a</sup>	---	0	0.0	--- <sup>a</sup>	---	--- <sup>a</sup>	---	--- <sup>b</sup>	---
	0-9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	10-14	--- <sup>a</sup>	---	7	0.1	9	0.1	--- <sup>a</sup>	---	26	0.1
	15-19	660	4.5	563	4.5	400	4.2	473	4.8	2,096	4.5
	20-24	1,568	10.7	1,236	9.9	987	10.3	997	10.0	4,788	10.3
	25-29	723	4.9	566	4.6	489	5.1	516	5.2	2,294	4.9
	30-34	358	2.4	272	2.2	220	2.3	224	2.3	1,074	2.3
	35-39	140	1.0	140	1.1	100	1.0	111	1.1	491	1.1
	40-44	109	0.7	93	0.7	67	0.7	77	0.8	346	0.7
	45-54	87	0.6	59	0.5	61	0.6	54	0.5	261	0.6
	55-64	25	0.2	26	0.2	29	0.3	14	0.1	94	0.2
	65+	--- <sup>a</sup>	---	5	0.0	--- <sup>a</sup>	---	<5	---	--- <sup>a</sup>	---
<b>Total</b>		<b>3,684</b>	<b>25.1</b>	<b>2,967</b>	<b>23.9</b>	<b>2,368</b>	<b>24.7</b>	<b>2,474</b>	<b>24.9</b>	<b>11,493</b>	<b>24.7</b>
Female	Unknown	<5	---	<5	---	<5	---	<5	---	12	0.0
	0-9	<5	---	<5	---	<5	---	<5	---	10	0.0
	10-14	106	0.7	103	0.8	76	0.8	74	0.7	359	0.8
	15-19	3,494	23.8	2,882	23.2	2,182	22.8	2,307	23.2	10,865	23.3
	20-24	4,516	30.8	3,981	32.0	3,038	31.7	3,096	31.2	14,630	31.4
	25-29	1,679	11.5	1,512	12.2	1,124	11.7	1,123	11.3	5,438	11.7
	30-34	647	4.4	550	4.4	425	4.4	458	4.6	2,080	4.5
	35-39	293	2.0	240	1.9	193	2.0	224	2.3	950	2.0
	40-44	119	0.8	107	0.9	88	0.9	95	1.0	409	0.9
	45-54	76	0.5	54	0.4	64	0.7	66	0.7	260	0.6
	55-64	19	0.1	16	0.1	15	0.2	12	0.1	62	0.1
	65+	<5	---	<5	---	<5	---	<5	---	6	0.0
<b>Total</b>		<b>10,959</b>	<b>74.8</b>	<b>9,454</b>	<b>76.1</b>	<b>7,211</b>	<b>75.3</b>	<b>7,461</b>	<b>75.1</b>	<b>35,085</b>	<b>75.3</b>
Total <sup>b</sup>	Unknown	--- <sup>a</sup>	---	<5	---	<5	---	--- <sup>a</sup>	---	17	0.0
	0-9	--- <sup>a</sup>	---	<5	---	<5	---	--- <sup>a</sup>	---	10	0.0
	10-14	113	0.8	111	0.9	85	0.9	77	0.8	386	0.8
	15-19	4,158	28.4	3,446	27.7	2,582	27.0	2,780	28.0	12,966	27.8
	20-24	6,085	41.5	5,217	42.0	4,026	42.0	4,093	41.2	19,421	41.7
	25-29	2,405	16.4	2,079	16.7	1,613	16.8	1,639	16.5	7,736	16.6
	30-34	1,005	6.9	822	6.6	645	6.7	683	6.9	3,155	6.8
	35-39	435	3.0	380	3.1	293	3.1	335	3.4	1,443	3.1
	40-44	228	1.6	200	1.6	155	1.6	172	1.7	755	1.6
	45-54	164	1.1	113	0.9	125	1.3	120	1.2	522	1.1
	55-64	46	0.3	42	0.3	44	0.5	26	0.3	158	0.3
	65+	6	0.0	8	0.1	6	0.1	5	0.1	25	0.1
<b>Total</b>		<b>14,654</b>	<b>100.0</b>	<b>12,424</b>	<b>100.0</b>	<b>9,580</b>	<b>100.0</b>	<b>9,936</b>	<b>100.0</b>	<b>46,594</b>	<b>100.0</b>

<sup>a</sup>Cell count and percentages have been suppressed to avoid identification of cells that have counts less than five through direct or indirect means.

<sup>b</sup>Total includes 19 cases with unreported gender (14 cases in Quarter 1, 3 cases in Quarter 2, 1 case in Quarter 3 and 1 case in Quarter 4).

Data Source: North Carolina Electronic Disease Surveillance System (data as of January 5, 2015).

North Carolina HIV/STD Surveillance Report Vol. 2014, No.4

Table 2. North Carolina Newly Reported Chlamydia Infections by Gender and Race/Ethnicity, 2014

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2014 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native <sup>a</sup>	27	0.2	37	0.3	19	0.2	29	0.3	112	0.2
	Asian/Pacific Islander <sup>a</sup>	9	0.1	11	0.1	10	0.1	13	0.1	43	0.1
	Black/African American <sup>a</sup>	1,460	10.0	1,260	10.1	987	10.3	1,023	10.3	4,730	10.2
	Hispanic/Latino	176	1.2	161	1.3	135	1.4	167	1.7	639	1.4
	White/Caucasian <sup>a</sup>	466	3.2	407	3.3	316	3.3	365	3.7	1,554	3.3
	Unknown	1,546	10.5	1,091	8.8	901	9.4	877	8.8	4,415	9.5
	<b>Total</b>	<b>3,684</b>	<b>25.1</b>	<b>2,967</b>	<b>23.9</b>	<b>2,368</b>	<b>24.7</b>	<b>2,474</b>	<b>24.9</b>	<b>11,493</b>	<b>24.7</b>
Female	American Indian/Alaska Native <sup>a</sup>	148	1.0	162	1.3	114	1.2	107	1.1	531	1.1
	Asian/Pacific Islander <sup>a</sup>	57	0.4	46	0.4	29	0.3	48	0.5	180	0.4
	Black/African American <sup>a</sup>	4,468	30.5	3,786	30.5	2,850	29.7	2,977	30.0	14,081	30.2
	Hispanic/Latino	702	4.8	616	5.0	500	5.2	479	4.8	2,297	4.9
	White/Caucasian <sup>a</sup>	2,101	14.3	1,913	15.4	1,387	14.5	1,506	15.2	6,907	14.8
	Unknown	3,483	23.8	2,931	23.6	2,331	24.3	2,344	23.6	11,089	23.8
	<b>Total</b>	<b>10,956</b>	<b>74.8</b>	<b>9,454</b>	<b>76.1</b>	<b>7,211</b>	<b>75.3</b>	<b>7,461</b>	<b>75.1</b>	<b>35,082</b>	<b>75.3</b>
Total <sup>b</sup>	American Indian/Alaska Native <sup>a</sup>	175	1.2	199	1.6	133	1.4	136	1.4	643	1.4
	Asian/Pacific Islander <sup>a</sup>	66	0.5	57	0.5	39	0.4	61	0.6	223	0.5
	Black/African American <sup>a</sup>	5,930	40.5	5,046	40.6	3,838	40.1	4,000	40.3	18,814	40.4
	Hispanic/Latino	879	6.0	777	6.3	635	6.6	646	6.5	2,937	6.3
	White/Caucasian <sup>a</sup>	2,567	17.5	2,320	18.7	1,703	17.8	1,871	18.8	8,461	18.2
	Unknown	5,040	34.4	4,025	32.4	3,232	33.7	3,222	32.4	15,519	33.3
	<b>Total</b>	<b>14,654</b>	<b>100.0</b>	<b>12,424</b>	<b>100.0</b>	<b>9,580</b>	<b>100.0</b>	<b>9,936</b>	<b>100.0</b>	<b>46,594</b>	<b>100.0</b>

<sup>a</sup>Non-Hispanic/Latino.

<sup>b</sup>Total includes 19 cases with unreported gender (14 cases in Quarter 1, 3 cases in Quarter 2, 1 case in Quarter 3 and 1 case in Quarter 4).

Data Source: North Carolina Electronic Disease Surveillance System (data as of January 5, 2015).

North Carolina HIV/STD Surveillance Report Vol. 2014, No.4

Table 3. North Carolina Newly Reported Gonorrhea Infections by Gender and Age, 2014

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2014 Total	
		Cases	%	Cases	%	Case	%	Cases	%	Cases	%
Male	Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	0-9	0	0.0	<5	---	0	0.0	<5	---	---	---
	10-14	---	---	<5	---	7	0.2	<5	---	18	0.1
	15-19	270	6.2	217	5.7	169	5.6	199	7.0	855	6.1
	20-24	762	17.6	615	16.2	488	16.2	484	16.9	2,349	16.8
	25-29	416	9.6	374	9.8	285	9.5	308	10.8	1,383	9.9
	30-34	197	4.5	198	5.2	171	5.7	146	5.1	712	5.1
	35-39	134	3.1	115	3.0	89	3.0	82	2.9	420	3.0
	40-44	73	1.7	53	1.4	56	1.9	64	2.2	246	1.8
	45-54	122	2.8	85	2.2	69	2.3	69	2.4	345	2.5
	55-64	19	0.4	29	0.8	42	1.4	24	0.8	114	0.8
	65+	---	---	<5	---	7	0.2	6	0.2	---	---
<b>Total</b>		<b>2,000</b>	<b>46.2</b>	<b>1,692</b>	<b>44.5</b>	<b>1,383</b>	<b>45.9</b>	<b>1,386</b>	<b>48.5</b>	<b>6,461</b>	<b>46.2</b>
Female	Unknown	<5	---	0	0.0	0	0.0	---	---	<5	---
	0-9	<5	---	0	0.0	---	---	0	0.0	5	0.0
	10-14	28	0.6	24	0.6	18	0.6	16	0.6	86	0.6
	15-19	655	15.1	516	13.6	428	14.2	386	13.5	1,985	14.2
	20-24	946	21.8	886	23.3	675	22.4	582	20.4	3,089	22.1
	25-29	394	9.1	383	10.1	295	9.8	264	9.2	1,336	9.5
	30-34	164	3.8	159	4.2	104	3.5	125	4.4	552	3.9
	35-39	59	1.4	69	1.8	63	2.1	47	1.6	238	1.7
	40-44	44	1.0	33	0.9	20	0.7	31	1.1	128	0.9
	45-54	22	0.5	28	0.7	21	0.7	13	0.5	84	0.6
	55-64	8	0.2	---	---	---	---	---	---	26	0.2
	65+	0	0.0	---	---	0	0.0	0	0.0	<5	---
<b>Total</b>		<b>2,325</b>	<b>53.7</b>	<b>2,107</b>	<b>55.5</b>	<b>1,630</b>	<b>54.1</b>	<b>1,471</b>	<b>51.5</b>	<b>7,533</b>	<b>53.8</b>
Total <sup>b</sup>	Unknown	<5	---	0	0.0	0	0.0	<5	---	---	---
	0-9	<5	---	<5	---	---	---	<5	---	---	---
	10-14	34	0.8	26	0.7	25	0.8	19	0.7	104	0.7
	15-19	927	21.4	733	19.3	597	19.8	585	20.5	2,842	20.3
	20-24	1,709	39.5	1,501	39.5	1,164	38.6	1,066	37.3	5,440	38.9
	25-29	810	18.7	757	19.9	580	19.2	572	20.0	2,719	19.4
	30-34	361	8.3	357	9.4	275	9.1	271	9.5	1,264	9.0
	35-39	193	4.5	184	4.8	152	5.0	129	4.5	658	4.7
	40-44	117	2.7	86	2.3	76	2.5	95	3.3	374	2.7
	45-54	146	3.4	113	3.0	90	3.0	82	2.9	431	3.1
	55-64	27	0.6	37	1.0	47	1.6	29	1.0	140	1.0
	65+	<5	---	<5	---	---	---	6	0.2	18	0.1
<b>Total</b>		<b>4,330</b>	<b>100.0</b>	<b>3,799</b>	<b>100.0</b>	<b>3,014</b>	<b>100.0</b>	<b>2,857</b>	<b>100.0</b>	<b>14,000</b>	<b>100.0</b>

<sup>a</sup>Cell count and percentages have been suppressed to avoid identification of cells that have counts less than five through direct or indirect means.

<sup>b</sup>Total includes 6 cases with unreported gender (5 cases in Quarter 1 and 1 case in Quarter 3).

Data Source: North Carolina Electronic Disease Surveillance System (data as of January 5, 2015).

North Carolina HIV/STD Surveillance Report Vol. 2014, No.4

Table 4. North Carolina Newly Reported Gonorrhea Infections by Gender and Race/Ethnicity, 2014

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2014 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native <sup>a</sup>	12	0.3	---	---	---	---	---	---	63	0.5
	Asian/Pacific Islander <sup>a</sup>	5	0.1	---	---	---	---	---	---	15	0.1
	Black/African American <sup>a</sup>	1,145	26.4	1,006	26.5	770	25.5	811	28.4	3,732	26.7
	Hispanic/Latino	56	1.3	37	1.0	52	1.7	35	1.2	180	1.3
	White/Caucasian <sup>a</sup>	173	4.0	181	4.8	152	5.0	149	5.2	655	4.7
	Unknown	609	14.1	449	11.8	384	12.7	374	13.1	1,816	13.0
	<b>Total</b>	<b>2,000</b>	<b>46.2</b>	<b>1,692</b>	<b>44.5</b>	<b>1,383</b>	<b>45.9</b>	<b>1,386</b>	<b>48.5</b>	<b>6,461</b>	<b>46.2</b>
Female	American Indian/Alaska Native <sup>a</sup>	---	---	---	---	---	---	18	0.6	97	0.7
	Asian/Pacific Islander <sup>a</sup>	---	---	---	---	---	---	8	0.3	14	0.1
	Black/African American <sup>a</sup>	1,252	28.9	1,116	29.4	889	29.5	844	29.5	4,101	29.3
	Hispanic/Latino	56	1.3	57	1.5	45	1.5	36	1.3	194	1.4
	White/Caucasian <sup>a</sup>	333	7.7	293	7.7	213	7.1	203	7.1	1,042	7.4
	Unknown	662	15.3	605	15.9	456	15.1	362	12.7	2,085	14.9
	<b>Total</b>	<b>2,325</b>	<b>53.7</b>	<b>2,107</b>	<b>55.5</b>	<b>1,630</b>	<b>54.1</b>	<b>1,471</b>	<b>51.5</b>	<b>7,533</b>	<b>53.8</b>
Total <sup>c</sup>	American Indian/Alaska Native <sup>a</sup>	33	0.8	---	---	45	1.5	31	1.1	160	1.1
	Asian/Pacific Islander <sup>a</sup>	6	0.1	---	---	7	0.2	12	0.4	29	0.2
	Black/African American <sup>a</sup>	2,397	55.4	2,122	55.9	1,660	55.1	1,655	57.9	7,834	56.0
	Hispanic/Latino	112	2.6	94	2.5	97	3.2	71	2.5	374	2.7
	White/Caucasian <sup>a</sup>	506	11.7	474	12.5	365	12.1	352	12.3	1,697	12.1
	Unknown	1,276	29.5	1,054	27.7	840	27.9	736	25.8	3,906	27.9
	<b>Total</b>	<b>4,330</b>	<b>100.0</b>	<b>3,799</b>	<b>100.0</b>	<b>3,014</b>	<b>100.0</b>	<b>2,857</b>	<b>100.0</b>	<b>14,000</b>	<b>100.0</b>

<sup>a</sup>Non-Hispanic/Latino.

<sup>b</sup>Cell count and percentages have been suppressed to avoid identification of cells that have counts less than five through direct or indirect means.

<sup>c</sup>Total includes 19 cases with unreported gender (14 cases in Quarter 1, 3 cases in Quarter 2, 1 case in Quarter 3 and 1 case in Quarter 4).

Data Source: North Carolina Electronic Disease Surveillance System (data as of January 5, 2015).

North Carolina HIV/STD Surveillance Report Vol. 2014, No.4

Table 5. North Carolina Newly Reported Early Syphilis (Primary, Secondary, and Early Latent) Infections by Gender and Age, 2014

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2014 Total	
		Cases	%	Cases	%	Case	%	Cases	%	Cases	%
Male	Unknown	0	0.0	0	0.0	0	0.0	<5	---	<5	---
	0-9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	10-14	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	15-19	7	3.4	---	---	8	2.7	21	7.1	48	4.5
	20-24	47	23.0	58	21.4	67	22.6	63	21.4	235	22.1
	25-29	33	16.2	45	16.6	64	21.6	52	17.7	194	18.2
	30-34	19	9.3	31	11.4	36	12.2	39	13.3	125	11.7
	35-39	25	12.3	27	10.0	31	10.5	20	6.8	103	9.7
	40-44	16	7.8	27	10.0	20	6.8	20	6.8	83	7.8
	45-54	24	11.8	20	7.4	23	7.8	38	12.9	105	9.9
	55-64	---	---	14	5.2	---	---	9	3.1	32	3.0
	65+	---	---	---	---	---	---	<5	---	10	0.9
<b>Total</b>		<b>177</b>	<b>86.8</b>	<b>235</b>	<b>86.7</b>	<b>259</b>	<b>87.5</b>	<b>265</b>	<b>90.1</b>	<b>936</b>	<b>87.9</b>
Female	Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	0-9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	10-14	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	15-19	<5	---	<5	---	0	0.0	<5	---	8	0.8
	20-24	9	4.4	6	2.2	14	4.7	10	3.4	39	3.7
	25-29	7	3.4	7	2.6	10	3.4	<5	---	27	2.5
	30-34	<5	---	<5	---	5	1.7	<5	---	16	1.5
	35-39	<5	---	5	1.8	<5	---	<5	---	9	0.8
	40-44	<5	---	<5	---	5	1.7	7	2.4	15	1.4
	45-54	<5	---	6	2.2	<5	---	<5	---	11	1.0
	55-64	<5	---	<5	---	0	0.0	0	0.0	<5	---
	65+	0	0.0	0	0.0	1	0.3	0	0.0	<5	---
<b>Total</b>		<b>27</b>	<b>13.2</b>	<b>36</b>	<b>13.3</b>	<b>37</b>	<b>12.5</b>	<b>29</b>	<b>9.9</b>	<b>129</b>	<b>12.1</b>
Total	Unknown	0	0.0	0	0.0	0	0.0	<5	---	---	---
	0-9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	10-14	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	15-19	10	4.9	16	5.9	8	2.7	22	7.5	56	5.3
	20-24	56	27.5	64	23.6	81	27.4	73	24.8	274	25.7
	25-29	40	19.6	52	19.2	74	25.0	55	18.7	221	20.8
	30-34	22	10.8	35	12.9	41	13.9	43	14.6	141	13.2
	35-39	26	12.7	32	11.8	32	10.8	22	7.5	112	10.5
	40-44	17	8.3	29	10.7	25	8.4	27	9.2	98	9.2
	45-54	26	12.7	26	9.6	24	8.1	40	13.6	116	10.9
	55-64	<5	---	---	---	---	---	9	3.1	35	3.3
	65+	<5	---	---	---	---	---	<5	---	---	---
<b>Total</b>		<b>204</b>	<b>100.0</b>	<b>271</b>	<b>100.0</b>	<b>296</b>	<b>100.0</b>	<b>294</b>	<b>100.0</b>	<b>1,065</b>	<b>100.0</b>

\*Cell count and percentages have been suppressed to avoid identification of cells that have counts less than five through direct or indirect means.

Data Source: North Carolina Electronic Disease Surveillance System (data as of January 5, 2015).

North Carolina HIV/STD Surveillance Report Vol. 2014, No.4

Table 6. North Carolina Newly Reported Early Syphilis (Primary, Secondary, and Early Latent) Infections by Gender and Race/Ethnicity, 2014

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2014 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native <sup>a</sup>	<5	---	<5	---	--- <sup>b</sup>	---	<5	---	--- <sup>b</sup>	---
	Asian/Pacific Islander <sup>a</sup>	<5	---	<5	---	0	0.0	<5	---	--- <sup>b</sup>	---
	Black/African American <sup>a</sup>	103	50.5	135	49.8	161	54.4	144	49.0	543	51.0
	Hispanic/Latino	9	4.4	21	7.7	21	7.1	19	6.5	70	6.6
	White/Caucasian <sup>a</sup>	53	26.0	65	24.0	68	23.0	88	29.9	274	25.7
	Unknown	9	4.4	8	3.0	--- <sup>b</sup>	---	11	3.7	34	3.2
	<b>Total</b>	177	86.8	235	86.7	259	87.5	265	90.1	936	87.9
Female	American Indian/Alaska Native <sup>a</sup>	0	0.0	<5	---	0	0.0	0	0.0	--- <sup>b</sup>	---
	Asian/Pacific Islander <sup>a</sup>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Black/African American <sup>a</sup>	18	8.8	27	10.0	28	9.5	17	5.8	90	8.5
	Hispanic/Latino	--- <sup>b</sup>	---	<5	---	<5	---	<5	---	11	1.0
	White/Caucasian <sup>a</sup>	--- <sup>b</sup>	---	<5	---	6	2.0	9	3.1	25	2.3
	Unknown	0	0.0	0	0.0	<5	---	<5	---	--- <sup>b</sup>	---
	<b>Total</b>	27	13.2	36	13.3	37	12.5	29	9.9	129	12.1
Total <sup>c</sup>	American Indian/Alaska Native <sup>a</sup>	<5	---	--- <sup>b</sup>	---	<5	---	<5	---	11	1.0
	Asian/Pacific Islander <sup>a</sup>	<5	---	--- <sup>b</sup>	---	0	0.0	<5	---	5	0.5
	Black/African American <sup>a</sup>	121	59.3	162	59.8	189	63.9	161	54.8	633	59.4
	Hispanic/Latino	12	5.9	25	9.2	23	7.8	21	7.1	81	7.6
	White/Caucasian <sup>a</sup>	59	28.9	69	25.5	74	25.0	97	33.0	299	28.1
	Unknown	9	4.4	8	3.0	7	2.4	12	4.1	36	3.4
	<b>Total</b>	204	100.0	271	100.0	296	100.0	294	100.0	1,065	100.0

<sup>a</sup>Non-Hispanic/Latino.

<sup>b</sup>Cell count and percentages have been suppressed to avoid identification of cells that have counts less than five through direct or indirect means.

<sup>c</sup>Total includes 19 cases with unreported gender (14 cases in Quarter 1, 3 cases in Quarter 2, 1 case in Quarter 3 and 1 case in Quarter 4).

Data Source: North Carolina Electronic Disease Surveillance System (data as of January 5, 2015).



**North Carolina HIV/STD Surveillance Report Vol. 2014, No.4**

**Table 7. North Carolina Newly Reported Chlamydia, Gonorrhea, and Early Syphilis (Primary, Secondary, and Early Latent) Infections by County of Residence at Time of Report, 2012-2014**

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2012 Jan-Dec	2013 Jan-Dec	2014 Jan-Dec	2012 Jan-Dec	2013 Jan-Dec	2014 Jan-Dec	2012 Jan-Dec	2013 Jan-Dec	2014 Jan-Dec	2012 Jan-Dec	2013 Jan-Dec	2014 Jan-Dec
ALAMANCE	725	513	622	256	138	258	3	5	4	3	2	5
ALEXANDER	76	73	70	9	8	13	0	0	0	1	0	0
ALLEGHANY	17	23	13	0	2	0	0	0	0	0	0	0
ANSON	183	134	167	65	43	57	0	0	0	1	0	0
ASHE	22	11	20	2	0	1	0	0	0	0	0	0
AVERY	10	12	7	1	1	1	0	0	0	0	0	0
BEAUFORT	326	261	208	82	46	34	2	1	4	2	2	2
BERTIE	148	110	103	59	46	28	0	0	0	0	0	0
BLADEN	181	211	171	44	69	43	1	0	3	1	2	2
BRUNSWICK	281	252	237	77	62	73	2	1	2	1	1	0
BUNCOMBE	769	897	766	159	290	229	3	4	7	2	5	6
BURKE	225	226	182	70	33	26	0	2	2	1	4	0
CABARRUS	722	666	762	141	145	162	2	2	3	0	0	3
CALDWELL	195	177	170	44	44	23	0	0	0	0	0	0
CAMDEN	16	39	23	5	5	1	0	0	0	0	1	0
CARTERET	214	182	169	49	36	20	1	0	0	2	1	2
CASWELL	81	65	62	20	29	21	0	0	0	1	3	1
CATAWBA	557	542	502	156	113	126	1	1	2	1	2	3
CHATHAM	142	169	161	37	36	30	1	1	2	2	1	1
CHEROKEE	39	29	33	16	4	3	0	0	0	0	0	0
CHOWAN	85	60	82	8	10	18	1	1	0	0	0	0
CLAY	14	12	16	1	4	5	1	0	0	0	0	0
CLEVELAND	498	374	415	163	129	111	1	1	1	2	0	0
COLUMBUS	257	226	204	81	75	77	1	0	0	2	1	1
CRAVEN	535	552	585	145	103	108	5	4	5	9	1	5
CUMBERLAND	3,589	3,610	3,043	1,170	1,196	1,060	11	19	51	21	11	30
CURRITUCK	51	70	71	8	6	6	1	0	0	0	0	0
DARE	90	104	90	3	5	8	0	0	0	0	0	0
DAVIDSON	488	544	441	101	138	120	4	3	4	3	4	3
DAVIE	83	109	114	12	19	33	0	0	0	0	0	0
DUPLIN	208	207	214	70	64	34	0	0	2	2	0	1
DURHAM	2,329	2,002	2,057	820	758	727	20	30	46	6	16	23
EDGECOMBE	645	541	542	180	172	188	4	3	5	2	4	2
FORSYTH	2,704	2,508	2,253	712	742	874	22	24	31	21	18	19
FRANKLIN	250	206	239	98	62	83	0	2	4	1	0	0
GASTON	892	1,258	990	194	341	271	2	4	5	4	1	3
GATES	49	46	34	17	9	4	0	1	1	0	0	0
GRAHAM	20	11	16	1	2	4	0	0	0	0	0	0
GRANVILLE	289	251	310	87	85	66	1	1	1	1	0	0
GREENE	104	84	90	28	39	29	0	0	3	0	0	1
GUILFORD	3,949	3,748	3,374	1,473	1,344	1,224	35	29	37	31	21	49
HALIFAX	426	421	385	128	100	72	2	2	0	0	0	0
HARNETT	417	468	448	96	128	100	4	5	6	2	3	2
HAYWOOD	132	114	99	11	20	21	0	0	2	0	0	2
HENDERSON	229	210	245	72	64	46	1	1	1	0	0	2
HERTFORD	171	162	166	44	41	32	1	0	4	0	0	0
HOKE	277	247	257	116	90	90	0	1	1	3	1	2
HYDE	13	13	7	2	3	0	0	0	0	0	0	1
IREDELL	542	466	455	120	97	119	6	3	1	0	2	1
JACKSON	154	108	111	38	17	36	0	0	0	0	0	0
JOHNSTON	464	550	491	94	117	106	0	2	9	2	1	3
JONES	33	31	29	7	4	9	0	0	0	0	0	1

Continued

Data Source: North Carolina Electronic Disease Surveillance System (data as of January 5, 2015).

North Carolina HIV/STD Surveillance Report Vol. 2014, No.4

Table 7 (Continued). North Carolina Newly Reported Chlamydia, Gonorrhea, and Early Syphilis (Primary, Secondary, and Early Latent) Infections by County of Residence at Time of Report, 2012-2014

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2012 Jan-Dec	2013 Jan-Dec	2014 Jan-Dec	2012 Jan-Dec	2013 Jan-Dec	2014 Jan-Dec	2012 Jan-Dec	2013 Jan-Dec	2014 Jan-Dec	2012 Jan-Dec	2013 Jan-Dec	2014 Jan-Dec
LEE	281	312	245	97	85	64	0	0	1	1	1	0
LENOIR	360	386	367	111	119	142	7	5	11	4	7	4
LINCOLN	187	196	193	36	22	29	0	0	2	0	0	4
MACON	50	74	82	7	11	12	0	0	0	0	0	1
MADISON	46	46	33	5	5	8	0	0	1	2	0	0
MARTIN	167	134	99	61	39	28	0	1	1	0	0	0
MCDOWELL	108	109	100	10	4	12	0	0	0	0	0	0
MECKLENBURG	6,287	6,087	6,289	1,848	1,775	2,248	88	109	160	46	46	74
MITCHELL	15	16	12	1	2	2	0	0	0	0	0	0
MONTGOMERY	90	107	106	14	22	33	0	0	0	0	0	0
MOORE	269	293	269	47	44	78	1	0	2	1	0	1
NASH	590	558	554	210	176	170	3	1	10	2	1	0
NEW HANOVER	1,069	933	903	262	266	316	2	5	10	2	1	5
NORTHAMPTON	139	143	134	49	41	42	1	1	0	0	0	1
ONSLow	1,495	1,481	1,187	250	302	232	1	3	5	0	4	3
ORANGE	456	470	467	85	114	109	3	3	12	1	0	4
PAMLICO	34	37	41	8	5	16	0	1	0	0	1	0
PASQUOTANK	314	316	206	88	54	55	0	2	1	0	1	1
PENDER	133	153	147	23	47	44	0	2	1	0	1	1
PERQUIMANS	58	52	43	14	13	13	0	0	0	0	0	0
PERSON	171	159	151	35	44	42	0	1	1	0	0	0
PITT	1,663	1,639	1,505	351	323	378	21	13	21	14	8	16
POLK	32	24	26	10	3	6	0	0	1	0	0	0
RANDOLPH	399	365	439	47	55	100	1	1	1	0	0	2
RICHMOND	214	223	318	68	42	60	1	0	2	2	0	0
ROBESON	1,141	1,019	903	321	260	318	5	6	11	1	3	12
ROCKINGHAM	380	305	255	121	94	88	4	8	3	0	0	4
ROWAN	680	726	662	204	237	208	4	3	6	3	3	4
RUTHERFORD	253	193	159	35	58	67	0	0	0	0	0	0
SAMPSON	193	266	244	100	116	63	1	0	7	5	2	2
SCOTLAND	259	298	284	93	124	98	0	1	1	0	2	1
STANLY	165	184	164	34	55	45	0	1	4	1	1	4
STOKES	104	108	107	11	12	14	0	0	0	0	1	0
SURRY	160	152	140	19	15	15	1	0	0	0	0	0
SWAIN	75	42	53	21	3	22	0	0	0	0	0	0
TRANSYLVANIA	92	79	91	5	16	21	0	0	1	0	0	0
TYRRELL	14	26	17	3	3	3	0	0	0	1	0	0
UNION	517	459	568	172	112	110	3	4	4	1	1	1
VANCE	491	361	572	207	148	227	1	2	6	0	3	2
WAKE	4,667	4,210	4,352	1,340	1,205	1,157	56	66	107	28	40	64
WARREN	110	108	127	66	43	29	0	1	2	0	0	0
WASHINGTON	84	84	59	13	35	25	0	1	0	0	0	1
WATAUGA	94	116	118	8	2	15	1	0	2	0	0	0
WAYNE	820	817	732	221	197	225	3	9	6	2	0	10
WILKES	160	105	136	12	11	11	0	0	0	0	0	0
WILSON	533	425	511	183	156	155	1	2	9	2	0	4
YADKIN	64	101	73	6	13	13	1	1	0	0	1	1
YANCEY	20	15	30	0	3	2	0	0	1	0	0	0
UNKNOWN	2	0	0	0	0	0	0	0	0	0	0	0
TOTAL	50,621	48,417	46,594	14,324	13,665	14,000	349	406	662	249	236	403

Data Source: North Carolina Electronic Disease Surveillance System (data as of January 5, 2015).

North Carolina HIV/STD Surveillance Report Vol. 2014, No.4

**Table 8. North Carolina Newly Reported HIV Infections by County of Residence at Time of Report, 2012-2014**

COUNTY	2012 Jan-Dec	2013 Jan-Dec	2014 Jan-Dec
ALAMANCE	15	20	22
ALEXANDER	0	1	5
ALLEGHANY	0	0	0
ANSON	1	6	3
ASHE	0	1	0
AVERY	0	0	0
BEAUFORT	4	6	4
BERTIE	3	3	6
BLADEN	2	10	6
BRUNSWICK	10	9	14
BUNCOMBE	26	29	25
BURKE	3	3	1
CABARRUS	12	22	22
CALDWELL	7	2	1
CAMDEN	0	0	0
CARTERET	4	5	4
CASWELL	2	2	0
CATAWBA	11	15	15
CHATHAM	2	7	3
CHEROKEE	1	0	2
CHOWAN	1	2	1
CLAY	0	0	0
CLEVELAND	8	9	11
COLUMBUS	5	4	13
CRAVEN	12	12	10
CUMBERLAND	68	82	98
CURRITUCK	0	0	1
DARE	1	5	1
DAVIDSON	16	16	9
DAVIE	2	0	0
DUPLIN	4	9	5
DURHAM	65	81	82
EDGECOMBE	13	17	21
FORSYTH	69	68	65
FRANKLIN	4	6	3
GASTON	29	29	28
GATES	0	1	0
GRAHAM	0	1	0
GRANVILLE	13	9	6
GREENE	2	2	5
GUILFORD	100	120	114
HALIFAX	12	8	11
HARNETT	7	13	10
HAYWOOD	1	3	3
HENDERSON	4	3	6
HERTFORD	1	5	3
HOKE	10	7	13
HYDE	0	0	0
IREDELL	8	10	7
JACKSON	2	3	5
JOHNSTON	12	17	18

COUNTY	2012 Jan-Dec	2013 Jan-Dec	2014 Jan-Dec
JONES	1	1	1
LEE	5	2	10
LENOIR	1	19	10
LINCOLN	6	6	1
MACON	1	2	3
MADISON	0	1	0
MARTIN	4	3	2
MCDOWELL	0	4	1
MECKLENBURG	243	331	362
MITCHELL	0	0	0
MONTGOMERY	2	3	3
MOORE	4	9	15
NASH	16	16	19
NEW HANOVER	23	19	15
NORTHAMPTON	3	5	5
ONSLow	14	20	22
ORANGE	13	20	16
PAMLICO	1	3	2
PASQUOTANK	4	6	5
PENDER	3	2	8
PERQUIMANS	0	0	2
PERSON	4	8	4
PITT	31	36	45
POLK	1	0	2
RANDOLPH	8	6	6
RICHMOND	3	4	3
ROBESON	23	24	20
ROCKINGHAM	2	5	6
ROWAN	11	7	12
RUTHERFORD	1	1	1
SAMPSON	3	4	9
SCOTLAND	7	1	8
STANLY	3	5	9
STOKES	2	1	2
SURRY	7	6	3
SWAIN	0	2	1
TRANSYLVANIA	1	1	3
TYRRELL	0	0	0
UNION	10	18	15
VANCE	10	7	14
WAKE	134	167	181
WARREN	3	0	1
WASHINGTON	1	0	5
WATAUGA	3	2	2
WAYNE	18	18	16
WILKES	5	4	2
WILSON	18	9	15
YADKIN	2	1	3
YANCEY	0	0	0
UNASSIGNED*	55	78	59
<b>TOTAL</b>	<b>1,282</b>	<b>1,570</b>	<b>1,631</b>

\* Unassigned includes cases with unknown county of residence at diagnosis or cases that were diagnosed at a long-term care facility such as prison.  
Data Source: enhanced HIV/AIDS Reporting System (eHARS) (data as of December 23, 2014).

North Carolina HIV/STD Surveillance Report Vol. 2014, No.4

**Table 9. North Carolina Newly Reported AIDS (HIV Infection Stage 3) Cases by County of Residence at Time of Report, 2012-2014**

COUNTY	2012 Jan-Dec	2013 Jan-Dec	2014 Jan-Dec
ALAMANCE	7	9	17
ALEXANDER	2	0	0
ALLEGHANY	0	0	0
ANSON	2	2	5
ASHE	0	0	0
AVERY	0	1	0
BEAUFORT	3	4	3
BERTIE	1	1	4
BLADEN	1	6	6
BRUNSWICK	2	4	6
BUNCOMBE	17	30	12
BURKE	2	2	4
CABARRUS	3	18	11
CALDWELL	3	1	6
CAMDEN	1	0	0
CARTERET	2	3	4
CASWELL	0	1	0
CATAWBA	9	3	7
CHATHAM	1	2	10
CHEROKEE	0	0	2
CHOWAN	0	1	1
CLAY	0	0	0
CLEVELAND	6	10	10
COLUMBUS	7	7	5
Craven	2	3	7
CUMBERLAND	27	36	45
CURRITUCK	0	0	0
DARE	1	2	0
DAVIDSON	10	4	4
DAVIE	1	2	0
DUPLIN	1	7	1
DURHAM	23	26	45
EDGECOMBE	11	11	7
FORSYTH	36	31	25
FRANKLIN	1	2	1
GASTON	18	19	15
GATES	0	0	0
GRAHAM	0	1	0
GRANVILLE	6	10	7
GREENE	1	2	3
GUILFORD	36	46	32
HALIFAX	7	2	5
HARNETT	5	7	8
HAYWOOD	0	2	1
HENDERSON	1	1	1
HERTFORD	2	2	2
HOKE	6	3	5
HYDE	0	0	0
IREDELL	6	8	5
JACKSON	2	0	3
JOHNSTON	13	6	14
JONES	1	3	1
LEE	1	5	7

COUNTY	2012 Jan-Dec	2013 Jan-Dec	2014 Jan-Dec
LENOIR	6	14	7
LINCOLN	2	4	3
MACON	0	3	2
MADISON	1	0	1
MARTIN	2	3	2
MCDOWELL	1	1	0
MECKLENBURG	158	351	190
MITCHELL	0	1	0
MONTGOMERY	0	1	2
MOORE	8	6	8
NASH	5	18	9
NEW HANOVER	7	14	7
NORTHAMPTON	2	4	2
ONSLow	3	14	5
ORANGE	2	8	12
PAMLICO	0	1	1
PASQUOTANK	2	2	3
PENDER	2	1	4
PERQUIMANS	0	2	1
PERSON	0	3	2
PITT	23	24	11
POLK	1	1	0
RANDOLPH	6	6	2
RICHMOND	3	4	9
ROBESON	19	15	11
ROCKINGHAM	1	4	3
ROWAN	5	8	11
RUTHERFORD	1	2	2
SAMPSON	3	3	5
SCOTLAND	3	2	4
STANLY	0	13	2
STOKES	0	1	0
SURRY	3	2	1
SWAIN	0	1	0
TRANSYLVANIA	0	1	1
TYRRELL	1	0	0
UNION	6	16	9
VANCE	7	7	6
WAKE	62	89	66
WARREN	0	1	1
WASHINGTON	3	1	3
WATAUGA	0	1	0
WAYNE	10	14	13
WILKES	1	1	0
WILSON	11	11	13
YADKIN	2	0	2
YANCEY	0	1	0
UNASSIGNED*	21	44	24
<b>TOTAL</b>	<b>680</b>	<b>1,070</b>	<b>817</b>

\* Unassigned includes cases with unknown county of residence at diagnosis or cases that were diagnosed at a long-term care facility such as prison.  
Data Source: enhanced HIV/AIDS Reporting System (eHARS) (data as of December 23, 2014).