

North Carolina HIV/STD Quarterly Surveillance Report: Vol. 2018, No. 2

HIV/STD Surveillance Unit

Communicable Disease Branch
Epidemiology Section, Division of Public Health
North Carolina Department of Health & Human Services

1902 Mail Service Center
Raleigh, North Carolina 27699-1902
(919) 733-7301

<http://epi.publichealth.nc.gov/cd/stds/figures.html>

ANNOUNCEMENTS:

Readers should consider the data in this report to be *preliminary*. These data represent reports for short time periods and changes noted from quarter to quarter may not be meaningful. *Case review and confirmation is incomplete for this quarter. For the second quarter of 2018, chlamydia cases are approximately 13% underestimated; gonorrhea cases are approximately 7% underestimated.* 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. 2018, No. 2* presents statistics and trends of sexually transmitted diseases (including HIV and AIDS) in North Carolina from January 1 through March 31, 2018. All reports are presented by the **date of diagnosis**. 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 diagnosis in this publication.** This gives a preliminary look at HIV infection surveillance for 2018. Also, HIV and AIDS cases diagnosed 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 (such as infertility), 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 diagnosis** 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 (such as infertility), 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 diagnosis** 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 diagnosis** in this publication.

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 2013*. This report can be found on our website <http://epi.publichealth.nc.gov/cd/stds/figures.html>.

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Table 1. North Carolina Newly Diagnosed Chlamydia Infections by Gender and Age, 2018

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Case	%	Cases	%	Cases	%
Male	Unknown	0	0.0	1	0.0					1	0.0
	0-9	0	0.0	0	0.0					0	0.0
	10-14	6	0.0	5	0.0					11	0.0
	15-19	1,001	6.2	751	5.9					1,752	6.0
	20-24	1,982	12.3	1,452	11.3					3,434	11.9
	25-29	1,065	6.6	880	6.9					1,945	6.7
	30-34	468	2.9	372	2.9					840	2.9
	35-39	248	1.5	187	1.5					435	1.5
	40-44	133	0.8	129	1.0					262	0.9
	45-54	134	0.8	120	0.9					254	0.9
	55-64	37	0.2	28	0.2					65	0.2
	65+	7	0.0	8	0.1					15	0.1
Total		5,081	31.4	3,933	30.7					9,014	31.1
Female	Unknown	0	0.0	0	0.0					0	0.0
	0-9	0	0.0	0	0.0					0	0.0
	10-14	79	0.5	79	0.6					158	0.5
	15-19	3,614	22.3	2,826	22.1					6,440	22.2
	20-24	4,336	26.8	3,350	26.2					7,686	26.5
	25-29	1,796	11.1	1,534	12.0					3,330	11.5
	30-34	696	4.3	566	4.4					1,262	4.4
	35-39	314	1.9	293	2.3					607	2.1
	40-44	127	0.8	122	1.0					249	0.9
	45-54	96	0.6	72	0.6					168	0.6
	55-64	35	0.2	22	0.2					57	0.2
	65+	5	0.0	0	0.0					5	0.0
Total		11,098	68.6	8,864	69.3					19,962	68.9
Total	Unknown	0	0.0	1	0.0					1	0.0
	0-9	0	0.0	0	0.0					0	0.0
	10-14	85	0.5	84	0.7					169	0.6
	15-19	4,615	28.5	3,577	28.0					8,192	28.3
	20-24	6,318	39.1	4,802	37.5					11,120	38.4
	25-29	2,861	17.7	2,414	18.9					5,275	18.2
	30-34	1,164	7.2	938	7.3					2,102	7.3
	35-39	562	3.5	480	3.8					1,042	3.6
	40-44	260	1.6	251	2.0					511	1.8
	45-54	230	1.4	192	1.5					422	1.5
	55-64	72	0.4	50	0.4					122	0.4
	65+	12	0.1	8	0.1					20	0.1
Total		16,179	100.0	12,797	100.0					28,976	100.0

Data Source: North Carolina Electronic Disease Surveillance System (data as of July 16, 2018).

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Table 2. North Carolina Newly Diagnosed Chlamydia Infections by Gender and Race/Ethnicity, 2018

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native ^a	46	0.3	43	0.3					89	0.3
	Asian/Pacific Islander ^a	27	0.2	14	0.1					41	0.1
	Black/African American ^a	1,847	11.4	1,416	11.1					3,263	11.3
	Hispanic/Latino	292	1.8	241	1.9					533	1.8
	White/Caucasian ^a	719	4.4	541	4.2					1,260	4.3
	Multiple Race	8	0.0	5	0.0					13	0.0
	Unknown	2,142	13.2	1,673	13.1					3,815	13.2
	Total	5,081	31.4	3,933	30.7					9,014	31.1
Female	American Indian/Alaska Native ^a	154	1.0	114	0.9					268	0.9
	Asian/Pacific Islander ^a	81	0.5	48	0.4					129	0.4
	Black/African American ^a	3,729	23.0	3,071	24.0					6,800	23.5
	Hispanic/Latino	839	5.2	678	5.3					1,517	5.2
	White/Caucasian ^a	2,175	13.4	1,677	13.1					3,852	13.3
	Multiple Race	31	0.2	21	0.2					52	0.2
	Unknown	4,089	25.3	3,255	25.4					7,344	25.3
	Total	11,098	68.6	8,864	69.3					19,962	68.9
Total ^c	American Indian/Alaska Native ^a	200	1.2	157	1.2					357	1.2
	Asian/Pacific Islander ^a	108	0.7	62	0.5					170	0.6
	Black/African American ^a	5,576	34.5	4,487	35.1					10,063	34.7
	Hispanic/Latino	1,131	7.0	919	7.2					2,050	7.1
	White/Caucasian ^a	2,894	17.9	2,218	17.3					5,112	17.6
	Multiple Race	39	0.2	26	0.2					65	0.2
	Unknown	6,231	38.5	4,928	38.5					11,159	38.5
	Total	16,179	100.0	12,797	100.0					28,976	100.0

^aNon-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of July 16, 2018).

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Table 3. North Carolina Newly Diagnosed Gonorrhea Infections by Gender and Age, 2018

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Case	%	Cases	%	Cases	%
Male	Unknown	0	0.0	1	0.0					1	0.0
	0-9	0	0.0	0	0.0					0	0.0
	10-14	3	0.1	5	0.1					8	0.1
	15-19	355	6.6	291	5.9					646	6.3
	20-24	779	14.5	714	14.6					1,493	14.5
	25-29	611	11.4	591	12.1					1,202	11.7
	30-34	365	6.8	321	6.6					686	6.7
	35-39	200	3.7	246	5.0					446	4.3
	40-44	145	2.7	122	2.5					267	2.6
	45-54	146	2.7	145	3.0					291	2.8
	55-64	68	1.3	59	1.2					127	1.2
	65+	17	0.3	16	0.3					33	0.3
Total		2,689	50.1	2,511	51.3					5,200	50.7
Female	Unknown	0	0.0	0	0.0					0	0.0
	0-9	1	0.0	1	0.0					2	0.0
	10-14	16	0.3	18	0.4					34	0.3
	15-19	676	12.6	552	11.3					1,228	12.0
	20-24	899	16.7	756	15.5					1,655	16.1
	25-29	560	10.4	531	10.9					1,091	10.6
	30-34	273	5.1	277	5.7					550	5.4
	35-39	125	2.3	136	2.8					261	2.5
	40-44	62	1.2	57	1.2					119	1.2
	45-54	51	0.9	45	0.9					96	0.9
	55-64	18	0.3	8	0.2					26	0.3
	65+	2	0.0	1	0.0					3	0.0
Total		2,683	49.9	2,382	48.7					5,065	49.3
Total	Unknown	0	0.0	1	0.0					1	0.0
	0-9	1	0.0	1	0.0					2	0.0
	10-14	19	0.4	23	0.5					42	0.4
	15-19	1,031	19.2	843	17.2					1,874	18.3
	20-24	1,678	31.2	1,470	30.0					3,148	30.7
	25-29	1,171	21.8	1,122	22.9					2,293	22.3
	30-34	638	11.9	598	12.2					1,236	12.0
	35-39	325	6.0	382	7.8					707	6.9
	40-44	207	3.9	179	3.7					386	3.8
	45-54	197	3.7	190	3.9					387	3.8
	55-64	86	1.6	67	1.4					153	1.5
	65+	19	0.4	17	0.3					36	0.4
Total		5,372	100.0	4,893	100.0					10,265	100.0

Data Source: North Carolina Electronic Disease Surveillance System (data as of July 16, 2018).

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Table 4. North Carolina Newly Diagnosed Gonorrhea Infections by Gender and Race/Ethnicity, 2018

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native ^a	31	0.6	17	0.3					48	0.5
	Asian/Pacific Islander ^a	9	0.2	5	0.1					14	0.1
	Black/African American ^a	1,355	25.2	1,291	26.4					2,646	25.8
	Hispanic/Latino	100	1.9	87	1.8					187	1.8
	White/Caucasian ^a	331	6.2	296	6.0					627	6.1
	Multiple Race	6	0.1	3	0.1					9	0.1
	Unknown	857	16.0	812	16.6					1,669	16.3
	Total	2,689	50.1	2,511	51.3					5,200	50.7
Female	American Indian/Alaska Native ^a	44	0.8	32	0.7					76	0.7
	Asian/Pacific Islander ^a	10	0.2	5	0.1					15	0.1
	Black/African American ^a	1,202	22.4	1,127	23.0					2,329	22.7
	Hispanic/Latino	78	1.5	64	1.3					142	1.4
	White/Caucasian ^a	493	9.2	435	8.9					928	9.0
	Multiple Race	9	0.2	4	0.1					13	0.1
	Unknown	847	15.8	715	14.6					1,562	15.2
	Total	2,683	49.9	2,382	48.7					5,065	49.3
Total	American Indian/Alaska Native ^a	75	1.4	49	1.0					124	1.2
	Asian/Pacific Islander ^a	19	0.4	10	0.2					29	0.3
	Black/African American ^a	2,557	47.6	2,418	49.4					4,975	48.5
	Hispanic/Latino	178	3.3	151	3.1					329	3.2
	White/Caucasian ^a	824	15.3	731	14.9					1,555	15.1
	Multiple Race	15	0.3	7	0.1					22	0.2
	Unknown	1,704	31.7	1,527	31.2					3,231	31.5
	Total	5,372	100.0	4,893	100.0					10,265	100.0

^aNon-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of July 16, 2018).

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Table 5. North Carolina Newly Diagnosed Early Syphilis (Primary, Secondary, and Early Latent) Infections by Gender and Age, 2018

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Case	%	Cases	%	Cases	%
Male	Unknown	0	0.0	0	0.0					0	0.0
	0-9	0	0.0	0	0.0					0	0.0
	10-14	0	0.0	0	0.0					0	0.0
	15-19	18	3.7	10	2.5					28	3.2
	20-24	87	18.1	60	14.9					147	16.6
	25-29	89	18.5	83	20.6					172	19.5
	30-34	62	12.9	60	14.9					122	13.8
	35-39	45	9.4	25	6.2					70	7.9
	40-44	26	5.4	21	5.2					47	5.3
	45-54	55	11.4	46	11.4					101	11.4
	55-64	25	5.2	25	6.2					50	5.7
	65+	5	1.0	1	0.2					6	0.7
Total		412	85.7	331	82.3					743	84.1
Female	Unknown	0	0.0	0	0.0					0	0.0
	0-9	0	0.0	0	0.0					0	0.0
	10-14	0	0.0	1	0.2					1	0.1
	15-19	4	0.8	11	2.7					15	1.7
	20-24	14	2.9	18	4.5					32	3.6
	25-29	20	4.2	16	4.0					36	4.1
	30-34	11	2.3	12	3.0					23	2.6
	35-39	6	1.2	4	1.0					10	1.1
	40-44	8	1.7	3	0.7					11	1.2
	45-54	5	1.0	4	1.0					9	1.0
	55-64	1	0.2	1	0.2					2	0.2
	65+	0	0.0	1	0.2					1	0.1
Total		69	14.3	71	17.7					140	15.9
Total	Unknown	0	0.0	0	0.0					0	0.0
	0-9	0	0.0	0	0.0					0	0.0
	10-14	0	0.0	1	0.2					1	0.1
	15-19	22	4.6	21	5.2					43	4.9
	20-24	101	21.0	78	19.4					179	20.3
	25-29	109	22.7	99	24.6					208	23.6
	30-34	73	15.2	72	17.9					145	16.4
	35-39	51	10.6	29	7.2					80	9.1
	40-44	34	7.1	24	6.0					58	6.6
	45-54	60	12.5	50	12.4					110	12.5
	55-64	26	5.4	26	6.5					52	5.9
	65+	5	1.0	2	0.5					7	0.8
Total		481	100.0	402	100.0					883	100.0

Data Source: North Carolina Electronic Disease Surveillance System (data as of July 16, 2018).

Table 6. North Carolina Newly Diagnosed Early Syphilis (Primary, Secondary, and Early Latent) Infections by Gender and Race/Ethnicity, 2018

Gender	Race/Ethnicity	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	American Indian/Alaska Native ^a	2	0.4	2	0.5					4	0.5
	Asian/Pacific Islander ^a	4	0.8	0	0.0					4	0.5
	Black/African American ^a	239	49.7	203	50.5					442	50.1
	Hispanic/Latino	39	8.1	25	6.2					64	7.2
	White/Caucasian ^a	108	22.5	81	20.1					189	21.4
	Multiple Race	7	1.5	9	2.2					16	1.8
	Unknown	13	2.7	11	2.7					24	2.7
	Total	412	85.7	331	82.3					743	84.1
Female	American Indian/Alaska Native ^a	1	0.2	0	0.0					1	0.1
	Asian/Pacific Islander ^a	0	0.0	0	0.0					0	0.0
	Black/African American ^a	51	10.6	47	11.7					98	11.1
	Hispanic/Latino	1	0.2	5	1.2					6	0.7
	White/Caucasian ^a	14	2.9	18	4.5					32	3.6
	Multiple Race	2	0.4	0	0.0					2	0.2
	Unknown	0	0.0	1	0.2					1	0.1
	Total	69	14.3	71	17.7					140	15.9
Total ^c	American Indian/Alaska Native ^a	3	0.6	2	0.5					5	0.6
	Asian/Pacific Islander ^a	4	0.8	0	0.0					4	0.5
	Black/African American ^a	290	60.3	250	62.2					540	61.2
	Hispanic/Latino	40	8.3	30	7.5					70	7.9
	White/Caucasian ^a	122	25.4	99	24.6					221	25.0
	Multiple Race	9	1.9	9	2.2					18	2.0
	Unknown	13	2.7	12	3.0					25	2.8
	Total	481	100.0	402	100.0					883	100.0

^aNon-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of July 16, 2018).

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Table 7. North Carolina Newly Diagnosed Chlamydia, Gonorrhea, and Early Syphilis (Primary, Secondary, and Early Latent) Infections by County of Residence at Time of Diagnosis, 2016-2018

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2016 Jan-Jun	2017 Jan-Jun	2018 Jan-Jun	2016 Jan-Jun	2017 Jan-Jun	2018 Jan-Jun	2016 Jan-Jun	2017 Jan-Jun	2018 Jan-Jun	2016 Jan-Jun	2017 Jan-Jun	2018 Jan-Jun
ALAMANCE	440	469	398	205	121	98	14	10	7	15	7	7
ALEXANDER	44	37	31	10	16	7	0	0	0	0	0	0
ALLEGHANY	9	10	14	0	2	2	0	0	0	0	0	0
ANSON	83	86	85	54	43	38	2	1	0	0	1	0
ASHE	20	20	20	2	3	2	0	0	0	0	0	0
AVERY	11	17	11	3	5	4	0	0	1	0	0	0
BEAUFORT	140	127	133	38	26	34	2	1	0	1	0	1
BERTIE	71	68	68	15	15	20	1	2	0	0	0	0
BLADEN	89	106	67	38	63	35	0	1	1	0	3	1
BRUNSWICK	167	205	209	57	50	69	0	4	2	1	3	3
BUNCOMBE	482	569	506	91	229	213	7	22	5	9	4	5
BURKE	140	162	149	27	70	76	3	1	1	2	5	1
CABARRUS	431	475	490	109	101	147	4	5	7	6	5	1
CALDWELL	98	118	117	24	46	65	3	0	1	1	1	2
CAMDEN	13	10	9	3	1	2	0	0	0	0	0	0
CARTERET	108	104	110	26	12	17	1	0	2	0	1	0
CASWELL	51	60	44	23	21	9	2	0	1	0	0	0
CATAWBA	278	317	280	54	145	117	3	3	9	6	2	4
CHATHAM	73	95	94	23	29	25	4	2	1	0	0	0
CHEROKEE	15	24	21	1	5	3	0	0	0	0	0	0
CHOWAN	55	43	36	12	17	25	0	0	0	0	0	0
CLAY	9	8	6	1	1	1	0	0	0	0	0	0
CLEVELAND	221	258	310	98	166	171	1	3	2	2	2	2
COLUMBUS	172	164	127	52	91	59	1	5	0	1	1	1
CRAVEN	360	387	342	118	81	100	4	1	3	1	2	6
CUMBERLAND	1,564	1,808	1,644	568	724	652	20	29	20	15	20	27
CURRITUCK	36	32	36	5	4	9	0	1	0	0	1	1
DARE	31	37	53	6	6	12	0	0	0	0	1	0
DAVIDSON	333	317	304	143	135	114	1	3	2	5	5	3
DAVIE	62	63	29	20	22	11	2	0	1	0	0	1
DUPLIN	102	145	137	34	49	36	1	3	2	2	0	3
DURHAM	1,225	1,378	1,279	441	505	513	36	32	51	28	26	28
EDGECOMBE	259	255	234	94	130	110	3	2	1	4	6	0
FORSYTH	1,264	1,267	1,177	513	423	463	28	24	28	18	12	27
FRANKLIN	120	158	99	29	42	45	1	0	1	0	1	1
GASTON	623	694	717	243	253	289	17	9	9	6	8	6
GATES	18	25	13	8	5	3	0	0	0	0	0	0
GRAHAM	6	9	7	0	0	3	0	0	0	0	0	0
GRANVILLE	247	239	196	49	55	60	2	1	4	2	2	0
GREENE	84	84	70	21	21	25	0	0	0	1	0	0
GUILFORD	2,340	2,374	2,361	898	862	907	47	61	45	45	37	31
HALIFAX	173	220	191	39	55	71	4	3	0	1	2	3
HARNETT	289	320	336	62	81	113	4	0	1	2	1	4
HAYWOOD	71	65	71	8	16	20	3	6	0	1	0	0
HENDERSON	147	159	128	19	45	49	2	5	2	1	2	1
HERTFORD	79	85	83	23	17	27	1	0	1	0	1	1
HOKE	161	202	125	80	81	40	1	3	1	2	1	2
HYDE	11	10	13	0	2	1	0	0	0	1	1	0
IREDELL	301	395	334	83	184	103	2	3	4	0	0	4
JACKSON	57	98	86	11	28	33	2	1	0	1	0	0
JOHNSTON	344	389	405	90	114	134	4	6	8	5	6	2
JONES	14	29	24	10	12	8	2	0	1	0	0	0

Continued

Data Source: North Carolina Electronic Disease Surveillance System (data as of July 16, 2018).

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Table 7 (Continued). North Carolina Newly Diagnosed Chlamydia, Gonorrhea, and Early Syphilis (Primary, Secondary, and Early Latent) Infections by County of Residence at Time of Diagnosis, 2016-2018

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2016 Jan-Jun	2017 Jan-Jun	2018 Jan-Jun	2016 Jan-Jun	2017 Jan-Jun	2018 Jan-Jun	2016 Jan-Jun	2017 Jan-Jun	2018 Jan-Jun	2016 Jan-Jun	2017 Jan-Jun	2018 Jan-Jun
LEE	153	161	141	73	48	33	0	0	0	0	1	2
LENOIR	220	227	223	72	94	108	3	2	0	5	1	3
LINCOLN	111	130	146	29	20	40	5	2	4	1	0	1
MACON	34	55	49	5	7	18	0	2	2	0	0	1
MADISON	29	29	40	1	6	9	0	0	1	1	0	0
MARTIN	68	73	72	9	13	29	0	1	1	1	0	0
MCDOWELL	86	93	45	14	41	28	1	0	3	0	0	2
MECKLENBURG	3,844	4,551	4,189	1,313	1,602	1,422	161	156	111	115	92	83
MITCHELL	17	18	13	3	3	2	0	0	0	0	0	0
MONTGOMERY	58	78	70	19	12	11	0	1	0	0	2	0
MOORE	161	173	175	54	55	44	2	0	1	2	2	0
NASH	329	303	279	89	132	125	12	10	4	5	5	4
NEW HANOVER	566	674	564	237	197	192	4	10	13	6	5	10
NORTHAMPTON	54	58	61	19	24	25	0	2	0	4	0	0
ONSLow	818	964	818	162	182	142	2	9	12	2	2	3
ORANGE	335	390	331	78	108	86	3	5	7	3	3	2
PAMLICO	9	18	16	4	6	1	0	0	0	0	0	0
PASQUOTANK	161	145	116	19	35	49	0	2	2	0	0	0
PENDER	97	97	91	34	26	25	2	2	1	2	0	3
PERQUIMANS	33	39	29	7	7	13	0	0	0	0	0	0
PERSON	108	128	88	29	37	32	1	1	1	0	0	0
PITT	951	1,041	808	283	322	258	15	6	8	12	5	15
POLK	22	28	20	6	8	5	0	0	1	0	0	0
RANDOLPH	193	220	216	76	72	95	3	5	2	3	1	1
RICHMOND	163	211	157	37	51	69	1	0	1	4	1	1
ROBESON	574	650	496	247	270	186	7	4	6	11	3	7
ROCKINGHAM	205	177	178	101	84	63	0	2	2	5	3	0
ROWAN	343	467	458	83	127	132	3	7	4	2	2	5
RUTHERFORD	99	129	120	29	72	107	2	0	0	0	1	0
SAMPSON	156	143	148	43	49	47	2	2	2	1	0	0
SCOTLAND	142	179	128	34	82	50	4	1	2	4	0	2
STANLY	110	108	127	39	20	26	0	6	0	1	2	0
STOKES	71	57	57	21	7	25	0	0	0	1	1	0
SURRY	84	107	92	21	11	16	1	1	0	2	0	2
SWAIN	59	37	52	12	15	27	1	0	0	0	0	0
TRANSYLVANIA	27	38	41	4	6	5	1	0	0	0	2	0
TYRRELL	7	5	6	0	0	1	0	0	0	0	0	0
UNION	391	427	443	129	100	143	6	6	5	3	6	1
VANCE	250	236	250	99	123	128	3	2	7	3	2	1
WAKE	2,718	3,001	2,813	769	994	973	68	62	64	68	62	45
WARREN	56	54	56	17	19	12	0	1	2	1	0	1
WASHINGTON	48	46	35	12	13	8	1	1	0	0	0	0
WATAUGA	100	139	120	14	14	13	0	2	1	0	1	0
WAYNE	439	411	362	192	187	124	5	6	1	3	1	4
WILKES	69	83	88	11	26	28	0	1	1	0	0	0
WILSON	230	211	272	103	132	90	4	5	5	2	3	2
YADKIN	47	33	34	9	10	7	0	0	1	1	0	0
YANCEY	8	13	14	1	3	3	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	28,394	31,451	28,976	9,243	10,702	10,265	558	578	503	459	379	380

Data Source: North Carolina Electronic Disease Surveillance System (data as of July 16, 2018).

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Table 8. North Carolina Newly Diagnosed HIV Infections by County of Residence at Time of Diagnosis, 2016-2018

COUNTY	2016 Jan-Jun	2017 Jan-Jun	2018 Jan-Jun
ALAMANCE	7	10	6
ALEXANDER	0	0	0
ALLEGHANY	0	0	0
ANSON	4	2	1
ASHE	1	0	1
AVERY	0	0	0
BEAUFORT	3	3	3
BERTIE	3	1	1
BLADEN	1	4	4
BRUNSWICK	4	2	6
BUNCOMBE	13	12	7
BURKE	3	3	0
CABARRUS	13	8	10
CALDWELL	2	1	3
CAMDEN	0	0	0
CARTERET	0	1	0
CASWELL	1	0	0
CATAWBA	2	3	8
CHATHAM	2	4	2
CHEROKEE	0	0	0
CHOWAN	2	0	0
CLAY	0	0	0
CLEVELAND	7	7	5
COLUMBUS	1	3	1
Craven	7	3	6
CUMBERLAND	31	44	23
CURRITUCK	1	0	0
DARE	1	2	0
DAVIDSON	6	4	7
DAVIE	1	3	0
DUPLIN	2	2	1
DURHAM	46	34	29
EDGEcombe	7	8	5
FORSYTH	39	33	35
FRANKLIN	2	3	1
GASTON	13	17	15
GATES	1	0	0
GRAHAM	0	0	0
GRANVILLE	2	4	8
GREENE	1	1	0
GUILFORD	76	60	54
HALIFAX	4	6	4
HARNETT	5	8	7
HAYWOOD	1	2	2
HENDERSON	2	6	4
HERTFORD	1	1	2
HOKE	0	2	3
HYDE	1	0	0
IREDELL	3	4	7
JACKSON	0	3	0
JOHNSTON	6	8	8

COUNTY	2016 Jan-Jun	2017 Jan-Jun	2018 Jan-Jun
JONES	0	0	1
LEE	2	2	5
LENOIR	2	0	5
LINCOLN	1	1	1
MACON	1	1	0
MADISON	0	0	1
MARTIN	3	0	0
MCDOWELL	0	0	0
MECKLENBURG	141	139	119
MITCHELL	1	0	0
MONTGOMERY	0	1	1
MOORE	5	0	2
NASH	11	3	7
NEW HANOVER	13	22	14
NORTHAMPTON	4	0	0
ONslow	13	12	7
ORANGE	6	4	8
PAMLICO	0	1	0
PASQUOTANK	2	5	5
PENDER	7	2	2
PERQUIMANS	0	0	0
PERSON	1	3	2
PITT	23	18	18
POLK	1	0	0
RANDOLPH	3	2	1
RICHMOND	5	4	6
ROBESON	7	7	8
ROCKINGHAM	4	2	4
ROWAN	12	8	11
RUTHERFORD	2	3	1
SAMPSON	7	8	4
SCOTLAND	3	3	4
STANLY	4	0	1
STOKES	1	1	0
SURRY	2	0	1
SWAIN	0	0	0
TRANSYLVANIA	0	1	1
TYRRELL	2	0	0
UNION	14	7	9
VANCE	3	5	3
WAKE	82	73	54
WARREN	1	0	2
WASHINGTON	1	0	3
WATAUGA	0	2	1
WAYNE	5	8	5
WILKES	3	1	1
WILSON	5	8	6
YADKIN	0	0	0
YANCEY	1	0	0
UNASSIGNED*	17	7	6
TOTAL	749	686	609

* 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 July 2, 2018).

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Table 9. North Carolina Newly Diagnosed AIDS (HIV Infection Stage 3) Cases by County of Residence at Time of Diagnosis, 2016-2018

COUNTY	2016 Jan-Jun	2017 Jan-Jun	2018 Jan-Jun
ALAMANCE	6	5	3
ALEXANDER	1	0	0
ALLEGHANY	0	0	0
ANSON	1	0	2
ASHE	0	0	0
AVERY	0	0	0
BEAUFORT	3	2	0
BERTIE	2	2	2
BLADEN	0	2	2
BRUNSWICK	1	2	1
BUNCOMBE	2	7	5
BURKE	4	0	1
CABARRUS	7	4	1
CALDWELL	5	0	1
CAMDEN	0	0	0
CARTERET	0	1	1
CASWELL	0	2	1
CATAWBA	0	0	3
CHATHAM	1	2	0
CHEROKEE	1	0	0
CHOWAN	1	0	0
CLAY	0	0	0
CLEVELAND	4	5	2
COLUMBUS	0	1	0
CRAVEN	2	0	1
CUMBERLAND	18	13	14
CURRITUCK	0	0	0
DARE	0	1	0
DAVIDSON	7	1	8
DAVIE	0	0	0
DUPLIN	0	4	1
DURHAM	13	22	12
EDGECOMBE	4	5	1
FORSYTH	20	15	25
FRANKLIN	0	1	0
GASTON	8	11	5
GATES	0	0	1
GRAHAM	0	0	0
GRANVILLE	4	2	3
GREENE	0	1	0
GUILFORD	18	14	9
HALIFAX	2	2	0
HARNETT	1	5	4
HAYWOOD	0	1	0
HENDERSON	0	2	0
HERTFORD	1	1	1
HOKE	1	1	1
HYDE	0	0	0
IREDELL	3	3	1
JACKSON	0	1	0
JOHNSTON	2	3	8
JONES	0	1	1
LEE	3	2	0

COUNTY	2016 Jan-Jun	2017 Jan-Jun	2018 Jan-Jun
LENOIR	4	2	0
LINCOLN	1	1	1
MACON	0	0	0
MADISON	0	0	1
MARTIN	1	1	2
MCDOWELL	0	0	0
MECKLENBURG	62	55	26
MITCHELL	1	0	0
MONTGOMERY	0	1	0
MOORE	2	0	1
NASH	4	3	6
NEW HANOVER	4	4	2
NORTHAMPTON	2	0	2
ONSLow	3	4	1
ORANGE	4	2	1
PAMLICO	0	0	0
PASQUOTANK	0	3	3
PENDER	1	0	0
PERQUIMANS	0	0	1
PERSON	0	1	3
PITT	12	13	8
POLK	1	0	1
RANDOLPH	1	2	3
RICHMOND	1	4	3
ROBESON	5	5	7
ROCKINGHAM	1	1	4
ROWAN	3	7	2
RUTHERFORD	2	2	3
SAMPSON	2	2	3
SCOTLAND	4	0	4
STANLY	1	0	1
STOKES	0	0	0
SURRY	0	0	1
SWAIN	0	0	0
TRANSYLVANIA	0	0	0
TYRRELL	0	0	0
UNION	5	3	0
VANCE	2	3	2
WAKE	33	30	32
WARREN	0	2	0
WASHINGTON	0	0	1
WATAUGA	0	1	0
WAYNE	5	2	7
WILKES	1	0	0
WILSON	2	5	4
YADKIN	0	0	0
YANCEY	1	0	0
UNASSIGNED*	3	4	3
TOTAL	320	310	260

* 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 July 2, 2018).