

North Carolina HIV/STD Quarterly Surveillance Report: Vol. 2019, No. 2

HIV/STD Surveillance Unit

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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 2019, chlamydia cases are approximately 10% underestimated; gonorrhea cases are approximately 10% 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. 2019, No. 2* presents statistics and trends of sexually transmitted diseases (including HIV and AIDS) in North Carolina from January 1 through June 30, 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 (<https://epi.dph.ncdhhs.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 <https://epi.dph.ncdhhs.gov/cd/stds/figures.html>.

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Table 1. North Carolina Newly Diagnosed Chlamydia Infections by Gender and Age, 2019

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Male	Unknown	0	0.0	0	0.0					0	0.0
	0-9	2	0.0	0	0.0					2	0.0
	10-14	7	0.0	14	0.1					21	0.1
	15-19	1,128	6.4	883	5.9					2,011	6.2
	20-24	2,254	12.7	1,753	11.7					4,007	12.3
	25-29	1,166	6.6	1,010	6.8					2,176	6.7
	30-34	513	2.9	527	3.5					1,040	3.2
	35-39	278	1.6	254	1.7					532	1.6
	40-44	157	0.9	130	0.9					287	0.9
	45-54	158	0.9	127	0.9					285	0.9
	55-64	47	0.3	51	0.3					98	0.3
	65+	9	0.1	10	0.1					19	0.1
	Total	5,719	32.3	4,759	31.9					10,478	32.1
Female	Unknown	1	0.0	0	0.0					1	0.0
	0-9	4	0.0	2	0.0					6	0.0
	10-14	98	0.6	90	0.6					188	0.6
	15-19	3,931	22.2	3,268	21.9					7,199	22.1
	20-24	4,431	25.0	3,829	25.7					8,260	25.3
	25-29	2,084	11.8	1,719	11.5					3,803	11.6
	30-34	811	4.6	690	4.6					1,501	4.6
	35-39	324	1.8	306	2.0					630	1.9
	40-44	166	0.9	150	1.0					316	1.0
	45-54	120	0.7	84	0.6					204	0.6
	55-64	25	0.1	27	0.2					52	0.2
	65+	5	0.0	3	0.0					8	0.0
	Total	12,000	67.7	10,168	68.1					22,168	67.9
Total	Unknown	1	0.0	0	0.0					1	0.0
	0-9	6	0.0	2	0.0					8	0.0
	10-14	105	0.6	104	0.7					209	0.6
	15-19	5,059	28.6	4,151	27.8					9,210	28.2
	20-24	6,685	37.7	5,582	37.4					12,267	37.6
	25-29	3,250	18.3	2,729	18.3					5,979	18.3
	30-34	1,324	7.5	1,217	8.2					2,541	7.8
	35-39	602	3.4	560	3.8					1,162	3.6
	40-44	323	1.8	280	1.9					603	1.8
	45-54	278	1.6	211	1.4					489	1.5
	55-64	72	0.4	78	0.5					150	0.5
	65+	14	0.1	13	0.1					27	0.1
Total	17,719	100.0	14,927	100.0					32,646	100.0	

Data Source: North Carolina Electronic Disease Surveillance System (data as of July 22, 2019).

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Table 2. North Carolina Newly Diagnosed Chlamydia Infections by Gender and Race/Ethnicity, 2019

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	39	0.3					85	0.3
	Asian/Pacific Islander ^a	21	0.1	15	0.1					36	0.1
	Black/African American ^a	1,880	10.6	1,611	10.8					3,491	10.7
	Hispanic/Latino	329	1.9	273	1.8					602	1.8
	White/Caucasian ^a	742	4.2	652	4.4					1,394	4.3
	Multiple Race	11	0.1	8	0.1					19	0.1
	Unknown	2,690	15.2	2,161	14.5					4,851	14.9
	Total	5,719	32.3	4,759	31.9					10,478	32.1
Female	American Indian/Alaska Native ^a	154	0.9	133	0.9					287	0.9
	Asian/Pacific Islander ^a	57	0.3	62	0.4					119	0.4
	Black/African American ^a	3,857	21.8	3,322	22.3					7,179	22.0
	Hispanic/Latino	951	5.4	821	5.5					1,772	5.4
	White/Caucasian ^a	2,198	12.4	1,828	12.2					4,026	12.3
	Multiple Race	28	0.2	26	0.2					54	0.2
	Unknown	4,755	26.8	3,976	26.6					8,731	26.7
	Total	12,000	67.7	10,168	68.1					22,168	67.9
Total	American Indian/Alaska Native ^a	200	1.1	172	1.2					372	1.1
	Asian/Pacific Islander ^a	78	0.4	77	0.5					155	0.5
	Black/African American ^a	5,737	32.4	4,933	33.0					10,670	32.7
	Hispanic/Latino	1,280	7.2	1,094	7.3					2,374	7.3
	White/Caucasian ^a	2,940	16.6	2,480	16.6					5,420	16.6
	Multiple Race	39	0.2	34	0.2					73	0.2
	Unknown	7,445	42.0	6,137	41.1					13,582	41.6
	Total	17,719	100.0	14,927	100.0					32,646	100.0

^aNon-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of July 22, 2019).

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Table 3. North Carolina Newly Diagnosed Gonorrhea Infections by Gender and Age, 2019

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Cases	%	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	3	0.0	5	0.1					8	0.1
	15-19	409	6.5	321	5.7					730	6.2
	20-24	857	13.7	775	13.9					1,632	13.8
	25-29	781	12.5	710	12.7					1,491	12.6
	30-34	455	7.3	425	7.6					880	7.4
	35-39	260	4.2	258	4.6					518	4.4
	40-44	145	2.3	154	2.8					299	2.5
	45-54	222	3.5	170	3.0					392	3.3
	55-64	94	1.5	77	1.4					171	1.4
	65+	16	0.3	17	0.3					33	0.3
Total		3,242	51.8	2,912	52.1					6,154	51.9
Female	Unknown	1	0.0	1	0.0					2	0.0
	0-9	2	0.0	3	0.1					5	0.0
	10-14	22	0.4	26	0.5					48	0.4
	15-19	729	11.6	598	10.7					1,327	11.2
	20-24	972	15.5	880	15.7					1,852	15.6
	25-29	662	10.6	557	10.0					1,219	10.3
	30-34	299	4.8	304	5.4					603	5.1
	35-39	170	2.7	159	2.8					329	2.8
	40-44	81	1.3	77	1.4					158	1.3
	45-54	62	1.0	58	1.0					120	1.0
	55-64	13	0.2	11	0.2					24	0.2
	65+	3	0.0	4	0.1					7	0.1
Total		3,016	48.2	2,678	47.9					5,694	48.1
Total	Unknown	1	0.0	1	0.0					2	0.0
	0-9	2	0.0	3	0.1					5	0.0
	10-14	25	0.4	31	0.6					56	0.5
	15-19	1,138	18.2	919	16.4					2,057	17.4
	20-24	1,829	29.2	1,655	29.6					3,484	29.4
	25-29	1,443	23.1	1,267	22.7					2,710	22.9
	30-34	754	12.0	729	13.0					1,483	12.5
	35-39	430	6.9	417	7.5					847	7.1
	40-44	226	3.6	231	4.1					457	3.9
	45-54	284	4.5	228	4.1					512	4.3
	55-64	107	1.7	88	1.6					195	1.6
	65+	19	0.3	21	0.4					40	0.3
Total		6,258	100.0	5,590	100.0					11,848	100.0

Data Source: North Carolina Electronic Disease Surveillance System (data as of July 22, 2019).

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Table 4. North Carolina Newly Diagnosed Gonorrhea Infections by Gender and Race/Ethnicity, 2019

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	34	0.5	28	0.5					62	0.5
	Asian/Pacific Islander ^a	17	0.3	8	0.1					25	0.2
	Black/African American ^a	1,550	24.8	1,371	24.5					2,921	24.7
	Hispanic/Latino	121	1.9	115	2.1					236	2.0
	White/Caucasian ^a	407	6.5	339	6.1					746	6.3
	Multiple Race	5	0.1	7	0.1					12	0.1
	Unknown	1,108	17.7	1,044	18.7					2,152	18.2
	Total	3,242	51.8	2,912	52.1					6,154	51.9
Female	American Indian/Alaska Native ^a	56	0.9	49	0.9					105	0.9
	Asian/Pacific Islander ^a	10	0.2	7	0.1					17	0.1
	Black/African American ^a	1,244	19.9	1,105	19.8					2,349	19.8
	Hispanic/Latino	99	1.6	72	1.3					171	1.4
	White/Caucasian ^a	562	9.0	517	9.2					1,079	9.1
	Multiple Race	8	0.1	6	0.1					14	0.1
	Unknown	1,037	16.6	922	16.5					1,959	16.5
	Total	3,016	48.2	2,678	47.9					5,694	48.1
Total	American Indian/Alaska Native ^a	90	1.4	77	1.4					167	1.4
	Asian/Pacific Islander ^a	27	0.4	15	0.3					42	0.4
	Black/African American ^a	2,794	44.6	2,476	44.3					5,270	44.5
	Hispanic/Latino	220	3.5	187	3.3					407	3.4
	White/Caucasian ^a	969	15.5	856	15.3					1,825	15.4
	Multiple Race	13	0.2	13	0.2					26	0.2
	Unknown	2,145	34.3	1,966	35.2					4,111	34.7
	Total	6,258	100.0	5,590	100.0					11,848	100.0

^aNon-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of July 22, 2019).

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Table 5. North Carolina Newly Diagnosed Early Syphilis (Primary, Secondary, and Early Latent) Infections by Gender and Age, 2019

Gender	Age Group	1st Qtr (Jan - Mar)		2nd Qtr (Apr - Jun)		3rd Qtr (July - Sept)		4th Qtr (Oct - Dec)		2018 Total	
		Cases	%	Cases	%	Cases	%	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	15	2.9	18	3.8					33	3.3
	20-24	69	13.2	63	13.3					132	13.3
	25-29	110	21.1	85	18.0					195	19.6
	30-34	73	14.0	71	15.0					144	14.5
	35-39	46	8.8	34	7.2					80	8.1
	40-44	27	5.2	28	5.9					55	5.5
	45-54	78	15.0	49	10.4					127	12.8
	55-64	27	5.2	23	4.9					50	5.0
	65+	2	0.4	1	0.2					3	0.3
Total		447	85.8	372	78.8					819	82.5
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	0	0.0					0	0.0
	15-19	4	0.8	5	1.1					9	0.9
	20-24	13	2.5	20	4.2					33	3.3
	25-29	13	2.5	21	4.4					34	3.4
	30-34	13	2.5	21	4.4					34	3.4
	35-39	12	2.3	3	0.6					15	1.5
	40-44	6	1.2	13	2.8					19	1.9
	45-54	11	2.1	11	2.3					22	2.2
	55-64	2	0.4	4	0.8					6	0.6
	65+	0	0.0	2	0.4					2	0.2
Total		74	14.2	100	21.2					174	17.5
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	0	0.0					0	0.0
	15-19	19	3.6	23	4.9					42	4.2
	20-24	82	15.7	83	17.6					165	16.6
	25-29	123	23.6	106	22.5					229	23.1
	30-34	86	16.5	92	19.5					178	17.9
	35-39	58	11.1	37	7.8					95	9.6
	40-44	33	6.3	41	8.7					74	7.5
	45-54	89	17.1	60	12.7					149	15.0
	55-64	29	5.6	27	5.7					56	5.6
	65+	2	0.4	3	0.6					5	0.5
Total		521	100.0	472	100.0					993	100.0

Data Source: North Carolina Electronic Disease Surveillance System (data as of July 22, 2019).

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Table 6. North Carolina Newly Diagnosed Early Syphilis (Primary, Secondary, and Early Latent) Infections by Gender and Race/Ethnicity, 2019

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	3	0.6	6	1.3					9	0.9
	Asian/Pacific Islander ^a	4	0.8	3	0.6					7	0.7
	Black/African American ^a	286	54.9	217	46.0					503	50.7
	Hispanic/Latino	44	8.4	31	6.6					75	7.6
	White/Caucasian ^a	96	18.4	100	21.2					196	19.7
	Multiple Race	8	1.5	7	1.5					15	1.5
	Unknown	6	1.2	8	1.7					14	1.4
	Total	447	85.8	372	78.8					819	82.5
Female	American Indian/Alaska Native ^a	0	0.0	1	0.2					1	0.1
	Asian/Pacific Islander ^a	1	0.2	1	0.2					2	0.2
	Black/African American ^a	56	10.7	60	12.7					116	11.7
	Hispanic/Latino	4	0.8	10	2.1					14	1.4
	White/Caucasian ^a	11	2.1	24	5.1					35	3.5
	Multiple Race	2	0.4	2	0.4					4	0.4
	Unknown	0	0.0	2	0.4					2	0.2
	Total	74	14.2	100	21.2					174	17.5
Total ^c	American Indian/Alaska Native ^a	3	0.6	7	1.5					10	1.0
	Asian/Pacific Islander ^a	5	1.0	4	0.8					9	0.9
	Black/African American ^a	342	65.6	277	58.7					619	62.3
	Hispanic/Latino	48	9.2	41	8.7					89	9.0
	White/Caucasian ^a	107	20.5	124	26.3					231	23.3
	Multiple Race	10	1.9	9	1.9					19	1.9
	Unknown	6	1.2	10	2.1					16	1.6
	Total	521	100.0	472	100.0					993	100.0

^aNon-Hispanic/Latino.

Data Source: North Carolina Electronic Disease Surveillance System (data as of July 22, 2019).

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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, 2017-2019

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2017 Jan-Jun	2018 Jan-Jun	2019 Jan-Jun	2017 Jan-Jun	2018 Jan-Jun	2019 Jan-Jun	2017 Jan-Jun	2018 Jan-Jun	2019 Jan-Jun	2017 Jan-Jun	2018 Jan-Jun	2019 Jan-Jun
ALAMANCE	469	466	537	121	127	135	10	7	5	7	8	15
ALEXANDER	37	37	43	16	8	22	0	0	0	0	0	0
ALLEGHANY	10	18	14	2	2	1	0	0	0	0	0	0
ANSON	86	95	111	43	39	36	1	0	1	1	0	1
ASHE	20	25	15	3	2	3	0	0	0	0	0	0
AVERY	17	12	19	5	4	2	0	1	0	0	0	0
BEAUFORT	127	141	143	26	34	59	1	0	2	0	1	0
BERTIE	68	87	44	15	26	16	2	0	0	0	1	2
BLADEN	106	72	76	63	37	55	1	2	2	3	1	0
BRUNSWICK	205	226	225	50	76	85	4	2	2	3	3	7
BUNCOMBE	569	550	566	229	224	189	22	6	19	4	7	5
BURKE	162	178	189	70	87	85	1	1	0	5	1	0
CABARRUS	475	524	604	101	150	144	5	8	8	5	2	6
CALDWELL	118	135	149	46	68	104	0	1	0	1	2	0
CAMDEN	10	14	11	1	2	4	0	0	0	0	0	0
CARTERET	104	127	114	12	17	19	0	2	1	1	0	2
CASWELL	60	48	42	21	10	10	0	1	2	0	0	0
CATAWBA	317	306	340	145	122	160	3	10	4	2	4	0
CHATHAM	95	101	95	29	26	20	2	1	0	0	0	0
CHEROKEE	24	26	17	5	4	9	0	0	0	0	0	0
CHOWAN	43	40	22	17	25	25	0	0	2	0	0	2
CLAY	8	8	7	1	1	2	0	0	0	0	0	0
CLEVELAND	258	331	312	166	173	162	3	2	1	2	4	2
COLUMBUS	164	142	161	91	65	81	5	1	2	1	0	3
CRAVEN	387	394	374	81	108	94	1	3	3	2	6	2
CUMBERLAND	1,808	2,032	1,941	724	711	743	28	25	21	20	30	29
CURRITUCK	32	40	23	4	11	7	1	0	0	1	1	0
DARE	37	61	38	6	12	5	0	0	1	1	0	0
DAVIDSON	317	325	309	135	116	191	3	2	4	5	3	6
DAVIE	63	58	49	22	23	14	0	1	0	0	1	2
DUPLIN	145	155	174	49	44	48	3	2	0	0	3	0
DURHAM	1,378	1,454	1,298	505	565	520	32	50	48	27	30	38
EDGECOMBE	255	252	265	130	117	122	2	1	1	6	0	2
FORSYTH	1,267	1,411	1,438	423	560	648	24	29	21	12	29	22
FRANKLIN	158	158	121	42	63	60	0	1	0	1	1	2
GASTON	694	774	739	253	308	285	9	10	12	8	7	2
GATES	25	20	9	5	4	3	0	0	2	0	0	0
GRAHAM	9	8	9	0	3	1	0	0	0	0	0	0
GRANVILLE	239	219	202	55	66	77	1	4	6	1	1	5
GREENE	84	78	85	21	27	30	0	0	0	0	0	1
GUILFORD	2,374	2,645	2,466	862	975	960	61	49	36	37	35	46
HALIFAX	220	231	205	55	86	101	3	0	1	2	3	1
HARNETT	320	372	386	81	116	134	0	1	3	1	4	4
HAYWOOD	65	76	81	16	22	35	6	0	1	0	0	0
HENDERSON	159	152	180	45	51	62	5	2	1	2	1	0
HERTFORD	85	98	66	17	30	33	0	1	1	1	1	2
HOKE	202	201	143	81	69	50	3	1	2	1	3	6
HYDE	10	14	3	2	1	1	0	0	0	1	0	0
IREDELL	395	365	372	184	104	114	3	5	3	0	5	4
JACKSON	98	93	113	28	34	25	1	0	2	0	1	0
JOHNSTON	389	455	449	114	143	134	6	8	4	6	2	8
JONES	29	27	26	12	9	12	0	0	0	0	1	0

Continued

Data Source: North Carolina Electronic Disease Surveillance System (data as of July 22, 2019).

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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, 2017-2019

COUNTY	CHLAMYDIA			GONORRHEA			P. & S. SYPHILIS			E. L. SYPHILIS		
	2017 Jan-Jun	2018 Jan-Jun	2019 Jan-Jun	2017 Jan-Jun	2018 Jan-Jun	2019 Jan-Jun	2017 Jan-Jun	2018 Jan-Jun	2019 Jan-Jun	2017 Jan-Jun	2018 Jan-Jun	2019 Jan-Jun
LEE	161	156	160	48	36	35	0	1	1	1	1	0
LENOIR	227	243	269	94	111	99	2	0	3	1	3	2
LINCOLN	130	155	144	20	42	32	2	4	2	0	2	0
MACON	55	52	35	7	18	8	2	2	0	0	1	1
MADISON	29	40	40	6	9	6	0	1	1	0	0	0
MARTIN	73	82	92	13	33	25	1	1	2	0	0	2
MCDOWELL	93	51	75	41	29	36	0	2	0	0	2	0
MECKLENBURG	4,551	4,538	4,401	1,602	1,461	1,429	156	130	105	92	97	101
MITCHELL	18	15	25	3	2	3	0	0	0	0	0	0
MONTGOMERY	78	82	55	12	12	16	1	0	0	2	1	0
MOORE	173	198	184	55	45	56	0	1	0	2	0	2
NASH	303	318	351	132	132	177	10	5	6	5	4	3
NEW HANOVER	674	597	672	197	197	238	10	13	11	5	10	11
NORTHAMPTON	58	80	78	24	29	34	2	0	1	0	0	0
ONSLow	964	1,166	1,097	182	250	223	9	12	7	2	3	7
ORANGE	390	345	357	108	86	78	5	7	7	3	2	6
PAMLICO	18	19	20	6	1	3	0	0	0	0	0	0
PASQUOTANK	145	133	140	35	54	87	2	2	0	0	0	2
PENDER	97	99	100	26	26	18	2	1	1	0	2	0
PERQUIMANS	39	33	28	7	15	23	0	0	0	0	0	0
PERSON	128	98	98	37	32	25	1	1	1	0	0	1
PITT	1,041	914	1,127	322	293	346	6	8	11	5	15	9
POLK	28	22	15	8	5	8	0	1	0	0	0	0
RANDOLPH	220	233	266	72	97	75	5	2	0	1	2	0
RICHMOND	211	194	222	51	80	131	0	1	3	1	1	0
ROBESON	650	559	589	270	211	365	4	7	9	3	9	2
ROCKINGHAM	177	210	216	84	70	95	2	2	0	3	0	1
ROWAN	467	499	446	127	136	193	7	5	4	2	5	11
RUTHERFORD	129	128	135	72	110	82	0	0	2	1	0	0
SAMPSON	143	164	214	49	57	66	2	2	3	0	0	1
SCOTLAND	179	159	150	82	58	71	1	2	3	0	3	1
STANLY	108	135	130	20	26	45	6	0	0	2	0	0
STOKES	57	59	42	7	25	17	0	0	0	1	0	0
SURRY	107	105	91	11	17	25	1	0	0	0	2	0
SWAIN	37	60	55	15	31	17	0	0	0	0	0	0
TRANSYLVANIA	38	45	46	6	6	25	0	0	1	2	0	0
TYRRELL	5	8	7	0	1	2	0	0	0	0	0	0
UNION	427	474	524	100	146	135	6	5	9	6	1	4
VANCE	236	273	225	123	133	145	2	7	5	2	1	3
WAKE	3,001	3,216	3,021	994	1,072	981	62	66	76	62	46	68
WARREN	54	62	65	19	14	34	1	2	2	0	1	1
WASHINGTON	46	41	40	13	9	11	1	0	0	0	0	0
WATAUGA	139	132	136	14	16	11	2	1	1	1	0	1
WAYNE	411	415	493	187	136	179	6	1	8	1	4	2
WILKES	83	95	85	26	28	29	1	1	0	0	0	0
WILSON	211	310	416	132	100	157	5	6	8	3	2	6
YADKIN	33	38	41	10	7	12	0	1	1	0	0	0
YANCEY	13	18	8	3	3	3	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	31,451	32,945	32,646	10,702	11,214	11,848	577	543	518	379	422	475

Data Source: North Carolina Electronic Disease Surveillance System (data as of July 22, 2019).

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Table 8. North Carolina Newly Diagnosed HIV Infections by County of Residence at Time of Diagnosis, 2017-2019

COUNTY	2017 Jan-Jun	2018 Jan-Jun	2019 Jan-Jun
ALAMANCE	10	4	11
ALEXANDER	0	0	0
ALLEGHANY	0	0	0
ANSON	2	1	1
ASHE	0	0	0
AVERY	0	0	0
BEAUFORT	3	2	3
BERTIE	1	1	1
BLADEN	4	4	3
BRUNSWICK	2	4	3
BUNCOMBE	12	6	8
BURKE	3	0	2
CABARRUS	8	9	12
CALDWELL	1	2	4
CAMDEN	0	0	0
CARTERET	1	0	0
CASWELL	0	0	3
CATAWBA	3	9	6
CHATHAM	4	3	0
CHEROKEE	0	0	3
CHOWAN	0	0	0
CLAY	0	0	0
CLEVELAND	7	6	6
COLUMBUS	3	0	4
Craven	3	6	2
CUMBERLAND	43	27	27
CURRITUCK	0	0	1
DARE	2	0	0
DAVIDSON	5	9	7
DAVIE	3	0	0
DUPLIN	2	1	2
DURHAM	34	30	27
EDGECOMBE	8	6	4
FORSYTH	33	34	38
FRANKLIN	3	1	2
GASTON	17	16	22
GATES	0	0	0
GRAHAM	0	0	0
GRANVILLE	4	7	4
GREENE	1	0	0
GUILFORD	61	55	65
HALIFAX	6	4	3
HARNETT	8	6	13
HAYWOOD	2	2	1
HENDERSON	6	3	2
HERTFORD	1	2	0
HOKE	2	3	2
HYDE	0	0	0
IREDELL	4	7	10
JACKSON	3	0	1
JOHNSTON	8	10	7

COUNTY	2017 Jan-Jun	2018 Jan-Jun	2019 Jan-Jun
JONES	0	1	0
LEE	2	3	4
LENOIR	0	5	3
LINCOLN	1	2	1
MACON	1	0	0
MADISON	0	1	0
MARTIN	0	0	1
MCDOWELL	0	0	0
MECKLENBURG	141	115	139
MITCHELL	0	0	0
MONTGOMERY	1	0	0
MOORE	0	4	0
NASH	3	7	7
NEW HANOVER	23	15	17
NORTHAMPTON	0	0	1
ONslow	12	7	5
ORANGE	4	8	6
PAMLICO	1	0	1
PASQUOTANK	5	6	4
PENDER	2	2	0
PERQUIMANS	0	0	0
PERSON	3	3	0
PITT	17	17	26
POLK	0	0	0
RANDOLPH	2	1	7
RICHMOND	4	6	3
ROBESON	7	9	12
ROCKINGHAM	2	4	4
ROWAN	8	10	7
RUTHERFORD	3	1	0
SAMPSON	8	2	2
SCOTLAND	3	3	4
STANLY	0	1	1
STOKES	1	0	1
SURRY	0	1	4
SWAIN	0	0	0
TRANSYLVANIA	1	1	0
TYRRELL	0	0	0
UNION	7	7	7
VANCE	5	3	5
WAKE	73	49	59
WARREN	0	2	0
WASHINGTON	0	2	1
WATAUGA	2	1	0
WAYNE	8	5	9
WILKES	1	1	0
WILSON	8	6	9
YADKIN	0	0	1
YANCEY	0	0	0
UNASSIGNED*	7	4	6
TOTAL	689	595	667

* 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 1, 2019).

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Table 9. North Carolina Newly Diagnosed AIDS (HIV Infection Stage 3) Cases by County of Residence at Time of Diagnosis, 2017-2019

COUNTY	2017 Jan-Jun	2018 Jan-Jun	2019 Jan-Jun
ALAMANCE	5	3	4
ALEXANDER	0	0	0
ALLEGHANY	0	0	0
ANSON	0	2	1
ASHE	0	0	0
AVERY	0	0	0
BEAUFORT	2	0	1
BERTIE	2	3	3
BLADEN	2	2	0
BRUNSWICK	2	1	0
BUNCOMBE	7	5	4
BURKE	0	1	1
CABARRUS	4	1	2
CALDWELL	0	1	3
CAMDEN	0	0	0
CARTERET	1	1	0
CASWELL	2	1	1
CATAWBA	0	3	2
CHATHAM	2	0	1
CHEROKEE	0	0	0
CHOWAN	0	0	0
CLAY	0	0	0
CLEVELAND	5	2	1
COLUMBUS	1	0	1
Craven	0	1	1
CUMBERLAND	13	17	16
CURRITUCK	0	0	1
DARE	0	0	0
DAVIDSON	1	9	3
DAVIE	0	0	1
DUPLIN	4	1	1
DURHAM	22	14	7
EDGECOMBE	5	2	6
FORSYTH	15	26	24
FRANKLIN	1	0	2
GASTON	11	5	4
GATES	0	1	0
GRAHAM	0	0	0
GRANVILLE	2	4	1
GREENE	1	0	1
GUILFORD	14	9	19
HALIFAX	2	0	0
HARNETT	5	3	0
HAYWOOD	1	0	0
HENDERSON	2	0	2
HERTFORD	1	1	1
HOKE	1	1	2
HYDE	0	0	0
IREDELL	3	1	11
JACKSON	1	0	2
JOHNSTON	3	8	3
JONES	1	1	0
LEE	2	0	1

COUNTY	2017 Jan-Jun	2018 Jan-Jun	2019 Jan-Jun
LENOIR	2	2	3
LINCOLN	1	1	2
MACON	0	0	0
MADISON	0	1	0
MARTIN	1	2	1
MCDOWELL	0	0	0
MECKLENBURG	55	26	37
MITCHELL	0	0	0
MONTGOMERY	1	0	0
MOORE	0	1	4
NASH	3	6	2
NEW HANOVER	4	2	3
NORTHAMPTON	0	1	0
ONSLow	4	1	3
ORANGE	2	1	2
PAMLICO	0	0	0
PASQUOTANK	3	3	3
PENDER	0	0	0
PERQUIMANS	0	1	0
PERSON	1	3	0
PITT	13	8	12
POLK	0	1	0
RANDOLPH	2	3	0
RICHMOND	4	3	1
ROBESON	4	9	7
ROCKINGHAM	1	4	0
ROWAN	7	2	4
RUTHERFORD	2	3	0
SAMPSON	2	3	0
SCOTLAND	0	5	2
STANLY	0	1	0
STOKES	0	0	1
SURRY	0	1	0
SWAIN	0	0	0
TRANSYLVANIA	0	0	1
TYRRELL	0	0	0
UNION	3	0	2
VANCE	3	2	2
WAKE	30	34	20
WARREN	2	0	1
WASHINGTON	0	1	1
WATAUGA	1	0	0
WAYNE	2	7	4
WILKES	0	0	0
WILSON	5	4	3
YADKIN	0	0	0
YANCEY	0	0	0
UNASSIGNED*	4	3	7
TOTAL	308	275	262

* 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 1, 2019).