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TO: Local and District Health Directors  
TB Control Nurses

FROM: Carol Dukes Hamilton, MD *CDH*  
Medical Director

DATE: June 2, 2005

SUBJECT: Revised 2004 Annual Tuberculosis Statistical Summary

This report rescinds the previous report dated May 10, 2005. Data that have changed in this report are in Table 1, Table 2, and Table 12 for the year 2000, related to the Foreign-Born population, and Table 21. Table 22 has been replaced and Table 24 has been added. This report is being sent directly to the TB Control Nurses in recognition of their hard work and dedication to eliminating TB in North Carolina. This summary was prepared using Report of Verified Case of Tuberculosis data submitted by each county. We ask that the report be shared with the Health Director and staff.

In reviewing last year's report, the verbal description of case rates for different race and ethnicity groups was inaccurate. Please use the case rates posted in the 2004 Statistical Summary, which includes years 2000-2004, instead of the case rates quoted in the 2003 Statistical Summary. We apologize for this inaccuracy. Case rates for all years reported in this report (2000-2004) use population estimates for the years since the 2000 census and years and case rates are based on their specific population estimates. The tables reflect data we use to report our annual progress toward TB elimination to one of our funding agencies, the CDC, and are required as a condition for receiving federal cooperative agreement funds. We solicit your feedback on the usefulness of this report, and ways in which we can make it a better tool to serve all of us. Please note that the County Case Rates listed in Table 21 must be viewed with caution in low-population counties—a change in a single case can appear like a dramatic change in the case rate.

As can be seen in Tables 1 and 2, the rise in cases occurring in 2002 was followed by resumption in the downward trend in 2003; and then another small increase in 2004. The case rate for 2004 was 4.5 per 100,000 population, which is lower than the U.S. case rate of 4.9 per 100,000 population. It is approximately twice the *Healthy People 2000* goal and 4.5 times greater than the *Healthy People 2010* goal of 1 new case per 100,000. Of great concern is that in 2004, like in 2002, there was a significant increase in pediatric cases of TB (Table 3).

These data were compiled from sources made available through public funding. Permission to use these data is not needed. But, please credit the North Carolina Tuberculosis Program when using data from this report.



**2004 Annual Tuberculosis Statistical Summary**  
**Revised June 2, 2005**

REVISED 6/2/2005										
Table 1	REPORTED TB CASES FOR NORTH CAROLINA 2000-2004**									
Year Cases	2000		2001		2002		2003		2004	
	447		397		434		374		382	
VARIABLES	#	%	#	%	#	%	#	%	#	%
<b>SEX</b>										
Male	302	68	257	65	271	62	234	63	231	60
Female	145	32	140	35	163	38	140	37	151	40
<b>RACE</b>										
White†	120	27	93	23	88	20	151	40	167	44
Black/African-American*	235	53	196	49	226	52	185	49	168	44
Asian//Pacific Islander	24	5	29	7	40	9	*	*	*	*
Asian*	*	*	*	*	*	*	29	8	42	11
American Indian/Alaska Native	1	<1	2	1	4	1	7	2	5	1
Hawaiian/Other Pacific Islander*	*	*	*	*	*	*	5	1	0	0
Multi-Racial*	*	*	*	*	*	*	1	<1	0	0
Unknown	0	0	0	0	0	0	0	0	0	0
<b>ETHNICITY</b>										
Hispanic	67	15	77	19	76	18	69	18	91	24
Non-Hispanic	380	85	320	81	358	82	305	82	291	76
Unknown	0	0	0	0	0	0	0	0	0	0
<b>AGE</b>										
0-14	18	4	11	3	32	8	17	5	31	8
15-24	46	10	37	9	35	8	29	7	42	11
25-44	160	36	133	34	151	35	128	34	125	33
45-64	110	25	113	28	110	25	120	32	96	25
≥65	113	25	103	26	106	24	80	22	88	23
Unknown	0	0	0	0	0	0	0	0	0	0
<b>SITE OF TB</b>										
Pulmonary	331	74	286	72	314	72	271	72	275	72
Extrapulmonary	83	19	79	20	82	19	73	20	78	20
Both	33	7	32	8	38	9	30	8	29	8
<b>COUNTRY OF ORIGIN</b>										
United States	332	74	271	68	301	69	262	70	247	65
Foreign	115	26	125	31	133	31	111	29	135	35
Unknown	0	0	1	<1	0	0	1	<1	0	0

\*CDC change in nomenclature for racial categories beginning with 2003.

\*\* Data source: TIMS.

†Includes White Hispanic and White Non-Hispanic.

REVISED 6/2/2005										
Table 2	NORTH CAROLINA TB CASE RATES FOR 2000-2004**†									
Year	2000		2001		2002		2003		2004	
VARIABLES	#	Rate	#	Rate	#	Rate	#	Rate	#	Rate
Cases	447	5.6	397	4.8	434	5.2	374	4.4	382	4.5
<b>SEX</b>										
Male	302	7.7	257	6.4	271	6.6	234	5.7	231	5.6
Female	145	3.5	140	3.3	163	3.9	140	3.3	151	3.5
<b>RACE</b>										
White‡	120	1.9	93	1.5	88	1.4	151	2.4	167	2.7
Black/African-American*	235	13.4	196	10.9	226	12.4	185	10.1	168	9.1
Asian/Pacific Islander	24	19.5	29	21.9	40	28.5	*	*	*	*
Asian	*	*	*	*	*	*	29	20.3	42	29.5
Amer. Indian/Alaska Native	1	0.9	2	1.9	4	3.8	7	6.5	5	4.6
Hawaiian/Other Pac. Isl.*	*	*	*	*	*	*	1	18.2	0	0
Multi-Racial*	*	*	*	*	*	*	1	1.2	0	0
Unknown	0	0	0	0	0	0	0	0	0	0
<b>ETHNICITY</b>										
Hispanic	67	17.7	77	18.8	76	17.4	68	14.8	91	19.5
Non-Hispanic	380	4.9	320	4.1	358	4.5	305	3.8	291	3.7
Unknown	0	0	0	0	0	0	0	0	0	0
<b>AGE</b>										
0-14	18	1.1	11	0.6	32	1.8	17	0.9	31	1.7
15-24	46	4.5	37	3.5	35	3.3	29	2.7	42	3.9
25-44	160	6.3	133	5.3	151	5.9	128	5.1	125	4.9
45-64	110	5.9	113	5.9	110	5.6	120	5.9	96	4.8
>65	113	12.0	103	10.8	106	11.0	80	8.1	88	8.9
Unknown	0	0	0	0	0	0	0	0	0	0
<b>COUNTRY OF ORIGIN</b>										
United States	332	4.4	271	3.3	301	3.6	262	3.3	247	3.1
Foreign	115	26.9	125	25.9	133	25.8	111	20.3	135	24.7
Unknown	0	0	1	0	0	0	1	**	0	0

\*CDC change in nomenclature for racial categories beginning with 2003.

\*\*The Unknown is attributed to the TB case reported dead at diagnosis. Data source: TIMS. Rates are per 100,000.

‡Includes White Hispanic and White Non-Hispanic.

†For 2000, the state case rate was calculated using the 2000 census as of April 1, 2000 as the denominator. For 2001-2003, the population estimates, as of July 1, for each corresponding year, were used as the denominator. For 2004, the 2003 population estimate was used. Those denominators are available at <http://www.census.gov/popest/estimates.php>. Rates for sex, race, and ethnicity were calculated using estimates from the same table. Rates for age strata were calculated using population estimates from these tables as the multiplicand with estimates by percentage from the American Community Survey (ACS) 2003 Multi Year Profile as the multiplier to calculate denominators. The ACS estimates by percentage for age are available at <http://www.census.gov/acs/www/Products/Profiles/Chg/2003/ACS/>. For country of origin, for 2000, the denominator for calculating the rate was used as the multiplicand and the multiplier was 5.3%, the percentage reported for the foreign born persons in North Carolina in the 2000 census. That information is available at <http://quickfacts.census.gov/qfd/states/37000.html>. Using the table available at <http://www.census.gov/acs/www/Products/Ranking/2003/R15T040.htm>, the lower bound percentage, 5.9 was used as the multiplier for 2001; 6.2 percent was used for 2002; and the upper bound, 6.5, was used for 2003 and 2004. Data reported to the NC DPH TB Registry through February 4, 2004 were used for this report.

Table 3	2004 Pediatric TB Case Demographics§				
	Foreign-Born		US-Born		Age 0-4 Years
	Race	Hispanic	Non-Hispanic	Hispanic	
White	0	1*	16‡	2‡	17
Black	0	1	0	10‡	6
Asian	0	0	0	1‡	1
Age 0-4 years	0	1*	15‡	8‡	24

§Data source: CaroTIMS. \*Denotes number of children aged 0-4 with corresponding racial and ethnic composition.

‡Denotes number of children aged 0-4 with corresponding racial and ethnic composition.

†Denotes number of children aged 0-4 with corresponding racial and ethnic composition.

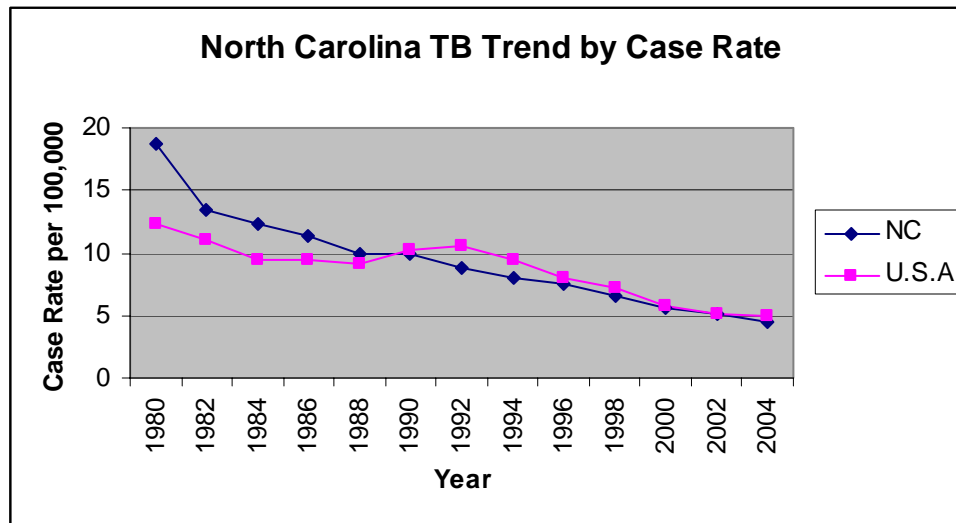


Figure 1

Table 4	Case Rate and Rank by Case Rate 1999-2004*		
	Rates		Rank
	USA	North Carolina	
1999	6.4	6.4	16
2000	6.4	5.5	16
2001	5.6	4.8	20
2002	5.2	5.2	14
2003	5.1	4.4	20
2004	4.9	4.5	*

\*Data from annual surveillance reports published by CDC. Data for 2004 are not available.

**Correctional Facilities:** There was a 30.8% decrease in cases reported from correctional settings between 2003 and 2004 (Table 5). Of the nine cases, four were in local jails and five were in State Correction facilities. The case rate for the State Correction population is 14.0 per 100,000 for the year 2004. (State Department of Correction inmate population for 2004 was 35,756, obtained from State Department of Correction Medical staff. That information is also available on line. Data to calculate a denominator for local jail populations is not immediately available.)

<b>Table 5</b>	<b>Resident of Correctional Facility at Time of Diagnosis 1999-2004*</b>					
<b>Year</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
<b>Cases</b>	<b>11</b>	<b>9</b>	<b>5</b>	<b>7</b>	<b>13</b>	<b>9</b>
<b>Percent</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>2</b>

\*Data source TIMS Surveillance Demographics Report.

**Long Term Care Facilities:** There has been a definite downward trend in the number of cases of TB among residents in long term care facilities. There was a 28.6% decrease in cases for this risk factor from 2003 to 2004. The trend is shown in Table 6.

<b>Table 6</b>	<b>Resident of Long Term Care Facility at Time of Diagnosis 1999-2004*</b>					
<b>Year</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
<b>Cases</b>	<b>24</b>	<b>15</b>	<b>21</b>	<b>11</b>	<b>14</b>	<b>10</b>
<b>Percent</b>	<b>5</b>	<b>3</b>	<b>5</b>	<b>3</b>	<b>4</b>	<b>3</b>

\*Data source TIMS Surveillance Demographics Report.

**Substance Use:** More cases reported excess alcohol use (18%) than either non-injection (13%) or injection drug use (1%). There was a 15% decrease from 2003 to 2004 in the number of cases in which excess alcohol use was reported. There was a 56% decrease in the number of cases reporting non-injection drug use. There was a 75% decrease in cases where injection drug use was reported. Tables 7, 8, 9, 10, and 11 show the trends.

<b>Table 7</b>	<b>Excess Alcohol Use 1999-2004*</b>					
<b>Year</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
<b>Cases</b>	<b>129</b>	<b>102</b>	<b>75</b>	<b>87</b>	<b>80</b>	<b>68</b>
<b>Percent</b>	<b>26</b>	<b>23</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>18</b>

\*Data source TIMS Surveillance Demographics Report.

<b>Table 8</b>	<b>Alcohol Use by Race and Ethnicity 2000-2004*</b>									
<b>Year</b>	<b>2000</b>		<b>2001</b>		<b>2002</b>		<b>2003</b>		<b>2004</b>	
<b>Race</b>	<b>Hisp.</b>	<b>Non-Hisp.</b>	<b>Hisp.</b>	<b>Non-Hisp.</b>	<b>Hisp.</b>	<b>Non-Hisp.</b>	<b>Hisp.</b>	<b>Non-Hisp.</b>	<b>Hisp.</b>	<b>Non-Hisp.</b>
<b>White</b>	7	33	6	17	7	18	7	21	12	13
<b>Black</b>	0	61	0	51	1	57	0	51	0	42
<b>Asian</b>	0	0	0	0	0	1	0	1	0	0
<b>AI/AN</b>	0	1	0	1	0	3	0	0	0	1
<b>HI/OPI</b>	0	0	0	0	0	0	0	0	0	0
<b>Multiple</b>	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	7	95	6	68	8	79	7	73	12	56
<b>TOTAL</b>	<b>102</b>		<b>75</b>		<b>87</b>		<b>80</b>		<b>68</b>	

\*Data source: CaroTIMS.

Year	2000		2001		2002		2003		2004	
Race	Hisp.	Non-Hisp.	Hisp.	Non-Hisp.	Hisp.	Non-Hisp.	Hisp.	Non-Hisp.	Hisp.	Non-Hisp.
White	10.8	27.5	8.6	18.3	9.6	20.5	10.4	25.0	13.2	17.1
Black	0	25.9	0	26.0	33.3	25.2	0	27.9	0	25.0
Asian	0	0	0	0	0	2.6	0	3.4	0	0
AI/AN	0	100	0	50.0	0	75.0	0	0	0	20.0
HI/OPI	0	0	0	0	0	0	0	0	0	0
Multiple	0	0	0	0	0	0	0	0	0	0

\*Data source: CaroTIMS.

Year	1999	2000	2001	2002	2003	2004
Cases	50	47	35	56	54	51
Percent	10	11	9	13	14	13

\*Data source TIMS Surveillance Demographics Report.

Year	1999	2000	2001	2002	2003	2004
Cases	2	6	6	7	8	2
Percent	<1	1	2	2	2	1

\*Data source TIMS Surveillance Demographics Report.

These data represent 89 cases where at least one of the three forms of substance use was reported.

- 31 were reported with alcohol and non-injection risk factors. Of these, six were HIV-positive.
- 36 were reported with only alcohol as the substance use risk factor. Of these, six were HIV-positive.
- 18 were reported with only non-injection as the substance use risk factor. Of these, seven were HIV-positive.
- One case that was reported as injection drug use also had non-injection substance use risk factor.

(Of the 36 cases reported as HIV-positive, 16 had no reported substance use risk factor.)

**Foreign-Born:** For 2004, there was a 21.6% increase in the number of cases reported among the foreign-born. For the period 1999-2004, inclusive, there was a 32.4% increase. For the past five years, the number of foreign-born cases in North Carolina has exceeded one hundred and proportionally brings North Carolina into the range of other states with high foreign-born TB morbidity. The data in Table 12 show the trend for foreign born TB cases in North Carolina.

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Table 12	Foreign-Born 1999-2004*					
Year	1999	2000	2001	2002	2003	2004
Cases	102	115	125	133	111	135
Percent	21	26	31	29	30	35

\*Data source TIMS Surveillance Demographics Report.

**Homeless:** There was a 38.2% decrease in the number of cases reported between 2003 and 2004. Five of these cases (23.8%) were HIV-positive. The data are presented in Table 13.

Table 13	Homeless 1999-2004*					
Year	1999	2000	2001	2002	2003	2004
Cases	34	29	32	30	37	21
Percent	7	6	8	7	10	6

\*Data source TIMS Surveillance Demographics Report.

**Occupation:** The occurrence of TB in persons identified as healthcare workers remains an area that receives close scrutiny and intensive investigation. The following table does NOT indicate TB exposure in health care settings, but rather provides data we review annually to make sure there is not an overall increase in cases among those who could expose, or be exposed to, TB. Fortunately, there are no significant trends in TB cases among healthcare workers, though there were more cases in 2004 than the previous 2 years. The data are presented in Table 14.

Table 14	Healthcare Workers with TB Disease 1999-2004*					
Year	1999	2000	2001	2002	2003	2004
Cases	13	10	14	8	7	11
Percent	3	2	4	2	2	4

\*Data source TIMS Surveillance Demographics Report.

**HIV Status:** Worldwide, HIV and TB co-morbidity is the single largest contributor to mortality where TB disease is a factor. Table 15 shows the percentage of cases that had HIV co-morbidity. Table 16 shows the progress that has been made in North Carolina with respect to standard of care and HIV status—namely, very few cases are not offered HIV testing, and an increasing number of TB cases are accepting the offered HIV test. Table 17 presents the distribution of HIV and TB co-morbidity by age.

<b>Table 15</b>	<b>TB Cases with HIV Infection 1998-2003*</b>					
<b>Year</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
<b>Cases</b>	<b>54</b>	<b>43</b>	<b>43</b>	<b>41</b>	<b>47</b>	<b>36</b>
<b>Percent</b>	<b>11</b>	<b>10</b>	<b>11</b>	<b>9</b>	<b>13</b>	<b>9</b>

\*Data Source: CaroTIMS.

<b>Table 16</b>	<b>Reported HIV Results 1999-2004*</b>					
<b>Status</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
<b>Negative</b>	<b>285</b>	<b>259</b>	<b>234</b>	<b>276</b>	<b>238</b>	<b>291</b>
<b>Positive</b>	<b>54</b>	<b>43</b>	<b>43</b>	<b>41</b>	<b>47</b>	<b>36</b>
<b>Refused</b>	<b>76</b>	<b>81</b>	<b>69</b>	<b>65</b>	<b>59</b>	<b>32</b>
<b>Not Offered</b>	<b>64</b>	<b>39</b>	<b>27</b>	<b>41</b>	<b>19</b>	<b>20‡</b>
<b>Tested No Result</b>	<b>5</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>0</b>
<b>Unknown</b>	<b>6</b>	<b>20</b>	<b>22</b>	<b>10</b>	<b>8</b>	<b>3</b>
<b>Missing</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

\*Data Source: CaroTIMS.

‡ For "Not Offered," in 2004 approximately half were "Dead at Diagnosis." That condition is true for a portion of each year's TB incidence.

<b>Table 17</b>	<b>TB Cases with HIV Infection by Age Group 1999-2004*</b>					
<b>Age Group</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
<b>0-14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>
<b>15-24</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>2</b>
<b>25-44</b>	<b>36</b>	<b>37</b>	<b>28</b>	<b>26</b>	<b>31</b>	<b>20</b>
<b>45-64</b>	<b>16</b>	<b>5</b>	<b>13</b>	<b>13</b>	<b>13</b>	<b>14</b>
<b>≥65</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>

\*Data source: CaroTIMS.

<b>Table 18</b>	<b>Major Site of Disease 1999-2004*</b>					
<b>Site</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
<b>Bone/Joint</b>	<b>11</b>	<b>20</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>12</b>
<b>Genitourinary</b>	<b>6</b>	<b>6</b>	<b>3</b>	<b>8</b>	<b>1</b>	<b>2</b>
<b>Lymphatic: Cervical</b>	<b>14</b>	<b>19</b>	<b>16</b>	<b>16</b>	<b>17</b>	<b>21</b>
<b>Lymphatic: Intrathoracic</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>5</b>	<b>4</b>	<b>5</b>
<b>Lymphatic: Other</b>	<b>3</b>	<b>7</b>	<b>12</b>	<b>5</b>	<b>10</b>	<b>4</b>
<b>Meningeal</b>	<b>7</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>3</b>	<b>7</b>
<b>Miliary</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>9</b>	<b>11</b>	<b>12</b>
<b>Other</b>	<b>10</b>	<b>6</b>	<b>10</b>	<b>11</b>	<b>13</b>	<b>1</b>
<b>Peritoneal</b>	<b>4</b>	<b>1</b>	<b>3</b>	<b>6</b>	<b>4</b>	<b>10</b>
<b>Pleural</b>	<b>31</b>	<b>24</b>	<b>24</b>	<b>17</b>	<b>11</b>	<b>16</b>
<b>Pulmonary</b>	<b>388</b>	<b>350</b>	<b>300</b>	<b>341</b>	<b>289</b>	<b>292</b>

\*Data source: CaroTIMS



Table 19	First-Line Primary TB Drug Resistance Over Time 2000-2004*									
	2000		2001		2002		2003		2004	
	#	%	#	%	#	%	#	%	#	%
INH Alone	9	2.4	3	1.0	7	2.0	11	3.8	4	1.4
INH & SM	5	1.3	4	1.2	11	3.0	6	2.1	10	3.5
INH & RIF (MDR)	2	1.0	1	0.3	3	1.0	0	0	1	0.3
Any Drug Resistance	30	8.0	20	6.1	36	10.0	29	10.0	29	10.1
**Total Positive Cultures	382		328		362		291		287	

\*Data source: CaroTIMS.

\*\*Total positive cultures with susceptibility results known.

Table 20	First-Line Primary TB Drug Resistance by Race, Ethnicity, and US- or Foreign-Born 2000-2004*									
	2000		2001		2002		2003		2004	
	#	%	#	%	#	%	#	%	#	%
White/Non-Hisp/US-Born	9	2.6	7	2.1	4	1.1	4	1.4	5	1.7
Black/Non-Hisp/US-Born	6	1.6	7	2.1	10	2.8	10	3.4	4	1.4
White/Hisp/Foreign-Born	6	1.6	2	1.0	9	2.5	9	3.1	13	4.5
White/Non-Hisp/For-Born	0	0	1	0.3	1	0.3	0	0	0	0
Asian/Foreign-Born	6	1.6	2	1.0	8	2.2	3	1.0	6	2.1
**Total Positive Cultures	382		328		362		291		287	

\*Data source: CaroTIMS.

\*\*Total positive cultures with susceptibility results known.

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Table 21	TB Cases and Case Rates 2000-2004*									
Year	2000	2000	2001	2001	2002	2002	2003	2003	2004	2004
County	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE
Alamance	1	0.8	2	1.5	2	1.5	5	3.7	3	2.2
Alexander	0	0.0	1	2.9	0	0.0	0	0.0	0	0.0
Alleghany	0	0.0	1	9.3	0	0.0	2	18.4	2	18.3
Anson	1	4.0	1	4.0	1	4.0	2	7.9	1	3.9
Ashe	0	0.0	1	4.1	1	4.0	2	8.0	0	0.0
Avery	1	5.8	0	0.0	1	5.7	0	0.0	0	0.0
Beaufort	2	4.4	1	2.2	2	4.4	4	8.8	1‡	2.2
Bertie	0	0.0	3	15.2	3	15.3	4	20.5	7	35.4
Bladen	6	18.6	0	0.0	3	9.2	1	3.1	1	3.0
Brunswick	5	6.8	2	2.6	3	3.8	1	1.2	1	1.2
Buncombe	6	2.9	4	1.9	4	1.9	3	1.4	3	1.4
Burke	2	2.2	2	2.2	2	2.2	3	3.0	6	6.7
Cabarrus	6	4.6	5	3.7	2	1.4	5	3.5	8	5.4
Caldwell	3	3.9	4	5.1	1	1.3	1	1.3	1	1.3
Camden	0	0.0	0	14.0	1	13.5	1	12.7	0	0.0
Carteret	1	1.7	1	1.7	1	1.7	1	1.6	0	0.0
Caswell	2	8.5	0	0.0	0	0.0	1	4.2	0	0.0
Catawba	8	5.6	5	3.4	3	2.1	1	0.7	1	0.7
Chatham	3	6.1	1	1.9	1	1.9	0	0.0	0	0.0
Cherokee	1	4.1	1	4.1	1	4.1	0	0.0	1	3.9
Chowan	0	0.0	0	0.0	3	21.1	0	0.0	4	27.7
Clay	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cleveland	1	1.0	2	2.1	3	3.1	2	2.0	0	0.0
Columbus	10	18.3	10	18.3	4	7.3	4	7.3	7	12.7
Craven	6	6.6	0	0.0	3	3.3	0	0.0	1	1.1
Cumberland	21	6.9	21	6.9	17	5.6	16	5.3	8	2.6
Currituck	1	5.5	0	0.0	0	5.6	0	0.0	0	0.0
Dare	2	6.7	0	0.0	3	9.3	0	0.0	0	0.0
Davidson	4	2.7	2	1.3	3	2.0	2	1.3	3	1.9
Davie	1	2.9	0	0.0	0	0.0	0	0.0	3	7.9
Duplin	8	16.3	5	10.0	7	13.8	2	3.9	3	5.8
Durham	20	9.0	19	8.3	14	6.0	10	4.2	27	11.3
Edgecombe	4	7.2	0	0.0	5	9.1	5	9.1	1	1.9
Forsyth	13	4.2	15	4.8	16	5.1	16	5.0	12	3.7
Franklin	2	4.2	2	4.1	3	5.9	1	1.9	2	3.8
Gaston	11	5.8	7	3.6	5	1.6	3	1.6	5	2.6
Gates	0	0.0	1	9.5	0	0.0	0	0.0	0	0.0
Graham	0	0.0	0	0.0	0	0.0	1	12.5	0	0.0
Granville	1	2.1	2	4.0	1	2.0	4	7.7	1	1.9
Greene	6	31.6	2	10.4	2	10.2	4	20.0	2	9.9
Guilford	20	4.8	27	6.3	43	10.0	31	7.1	27	6.2
Halifax	4	7.0	11	19.4	6	10.6	5	8.9	3	5.3
Harnett	5	5.5	6	6.4	3	3.1	2	2.0	4	4.0
Haywood	5	9.3	0	0.0	1	1.8	2	3.6	1	1.8

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Table 21	TB Cases and Case Rates 2000-2004*									
Year	2000	2000	2001	2001	2002	2002	2003	2003	2004	2004
County	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE
Henderson	6	6.7	1	1.1	1	1.1	6	6.4	5	5.2
Hertford	2	8.8	7	31.0	4	17.9	2	9.0	3	12.6
Hoke	3	8.9	1	2.9	4	11.1	1	2.7	0	0.0
Hyde	0	0.0	0	0.0	0	0.0	0	0.0	1	17.3
Iredell	2	1.6	2	1.6	2	1.5	2	1.5	2	1.5
Jackson	0	3.0	2	6.0	1	2.9	1	2.9	0	0.0
Johnston	12	9.8	8	6.3	10	7.5	7	5.1	9	6.4
Jones	2	19.3	0	0.0	1	9.7	1	9.8	0	0.0
Lee	5	10.2	3	6.0	3	6.1	2	4.1	4	7.9
Lenoir	9	15.1	7	11.8	7	11.9	6	10.2	3	5.1
Lincoln	0	1.6	0	0.0	1	1.5	0	0.0	2	2.9
Macon	0	3.4	0	0.0	1	3.2	0	0.0	1	3.1
Madison	0	0.0	0	0.0	0	0.0	1	5.0	0	0.0
Martin	4	15.6	3	11.9	5	19.9	4	16.0	1	4.0
McDowell	3	7.1	3	7.0	1	2.3	1	2.3	0	0.0
Mecklenburg	67	9.6	40	5.6	49	6.7	47	6.2	53	6.9
Mitchell	1	6.4	0	0.0	2	12.6	0	0.0	0	0.0
Montgomery	1	3.7	1	3.7	9	33.3	4	14.6	2	7.2
Moore	1	1.3	0	0.0	4	5.1	2	2.5	4	5.0
Nash	4	4.6	5	5.7	7	7.9	4	4.5	6	6.6
New Hanover	7	4.4	16	9.8	4	2.4	15	8.9	6	3.5
Northampton	3	13.6	4	18.2	2	9.1	1	4.6	2	9.2
Onslow	3	2.0	4	2.7	3	2.0	2	1.4	2	1.3
Orange	8	6.8	3	2.5	2	1.7	4	3.4	3	2.4
Pamlico	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Pasquotank	3	8.6	2	5.7	2	5.6	5	13.9	1	2.7
Pender	3	7.3	3	7.2	6	14.0	3	6.9	5	11.2
Perquimans	0	0.0	1	8.7	1	8.6	0	0.0	0	0.0
Person	4	11.2	0	0.0	1	2.7	1	2.7	0	0.0
Pitt	10	7.5	14	10.4	7	5.1	5	3.6	7	5.0
Polk	0	0.0	0	0.0	0	0.0	1	5.3	0	0.0
Randolph	1	0.8	1	0.8	3	2.2	5	3.7	1	0.7
Richmond	3	6.4	3	6.4	10	21.4	2	4.3	3	6.4
Robeson	6	4.9	4	3.2	8	6.4	11	8.7	6	4.7
Rockingham	4	4.4	6	6.5	3	3.2	5	5.4	0	0.0
Rowan	7	5.4	2	1.5	1	0.7	0	0.0	7	5.2
Rutherford	1	1.6	2	3.2	0	0.0	0	0.0	1	1.6
Sampson	6	10.0	2	3.3	2	3.3	6	9.7	11	17.3
Scotland	2	5.6	2	5.6	2	5.6	1	2.8	1	2.8
Stanly	3	5.2	0	0.0	1	1.7	2	3.4	5	8.4
Stokes	0	0.0	1	2.2	0	0.0	1	2.2	0	0.0
Surry	0	0.0	2	2.8	2	2.8	2	2.8	0	0.0
Swain	0	0.0	0	0.0	2	15.4	0	0.0	0	0.0
Transylvania	0	0.0	1	3.4	1	3.4	1	3.4	0	0.0

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Table 21	TB Cases and Case Rates 2000-2004*									
Year	2000	2000	2001	2001	2002	2002	2003	2003	2004	2004
County	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE
Tyrrell	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Union	3	2.4	5	3.8	3	2.2	3	2.1	2	1.3
Vance	0	0.0	0	0.0	4	9.1	1	2.3	0	0.0
Wake	39	6.2	40	6.1	57	8.4	46	6.6	53	7.3
Warren	1	5.0	1	5.0	0	0.0	0	0.0	1	4.9
Washington	1	7.3	2	14.7	1	7.4	2	14.9	1	7.4
Watauga	0	0.0	1	2.3	0	0.0	0	0.0	0	0.0
Wayne	7	6.2	9	8.0	8	7.1	5	4.4	9	7.8
Wilkes	2	3.0	2	3.0	4	6.0	1	1.5	1	1.5
Wilson	4	5.4	10	13.5	5	6.7	5	6.6	8	10.5
Yadkin	1	2.8	2	5.4	2	5.4	0	0.0	0	0.0
Yancey	0	0.0	2	11.1	1	5.6	0	0.0	0	0.0
<b>North Carolina</b>	<b>447</b>	<b>5.6</b>	<b>397</b>	<b>4.8</b>	<b>434</b>	<b>5.2</b>	<b>374</b>	<b>4.4</b>	<b>382</b>	<b>4.5</b>

\*Data source: CaroTIMS. Case rates for 2000-2003 were calculated using denominators available at <http://www.census.gov/popest/counties/tables/CO-EST2003-01-37.pdf>. Rates for 2004 were calculated using denominators available at <http://www.demog.state.nc.us/demog/cpa2004p.html>.

‡When the final case count was submitted to CDC for 2004, a case was counted for Beaufort County which was subsequently determined to not be a case of TB.

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Table 22	Foreign-Born TB Cases by County 2000-2004				
County	2000	2001	2002	2003	2004
Alamance	0	1	0	1	0
Alexander	0	0	0	0	0
Alleghany	0	1	0	0	0
Anson	0	0	0	0	0
Ashe	0	0	1	0	0
Avery	0	0	0	0	0
Beaufort	1	0	0	1	0
Bertie	0	0	0	1	1
Bladen	1	0	0	0	0
Brunswick	1	1	0	0	0
Buncombe	1	2	1	1	0
Burke	2	1	1	0	2
Cabarrus	1	2	1	3	3
Caldwell	0	1	0	1	0
Camden	0	0	1	1	0
Carteret	0	1	0	1	0
Caswell	0	0	0	0	0
Catawba	1	1	1	0	0
Chatham	1	0	1	0	0
Cherokee	0	0	1	0	0
Chowan	0	0	0	0	0
Clay	0	0	0	0	0
Cleveland	0	0	1	1	0
Columbus	3	2	1	1	2
Craven	1	0	0	0	0
Cumberland	2	3	3	2	2
Currituck	0	0	0	0	0
Dare	1	0	2	0	0
Davidson	0	0	0	0	0
Davie	0	0	0	0	3
Duplin	2	1	1	1	1
Durham	11	14	9	8	13
Edgecombe	2	0	0	1	0
Forsyth	5	10	11	6	4
Franklin	0	2	1	1	0
Gaston	3	2	2	1	1
Gates	0	0	0	0	0
Graham	0	0	0	0	0
Granville	0	1	0	3	1
Greene	1	0	0	1	0
Guilford	11	9	17	12	7
Halifax	0	0	0	0	0
Harnett	0	0	1	0	0
Haywood	0	0	0	0	0

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Table 22	Foreign-Born TB Cases by County 2000-2004				
County	2000	2001	2002	2003	2004
Henderson	3	1	1	3	3
Hertford	0	0	1	0	0
Hoke	1	0	2	0	0
Hyde	0	0	0	0	1
Iredell	0	1	2	1	1
Jackson	0	2	0	0	0
Johnston	2	1	0	2	2
Jones	0	0	0	0	0
Lee	1	0	1	0	1
Lenoir	0	0	0	0	0
Lincoln	0	0	0	0	0
Macon	0	0	0	0	1
Madison	0	0	0	0	0
Martin	0	0	0	0	0
McDowell	0	0	0	0	0
Mecklenburg	25	17	20	14	23
Mitchell	0	0	0	0	0
Montgomery	1	1	1	1	0
Moore	0	0	1	1	2
Nash	0	2	0	1	4
New Hanover	2	6	1	1	1
Northampton	0	1	0	0	0
Onslow	0	0	2	1	1
Orange	1	2	1	3	1
Pamlico	0	0	0	0	0
Pasquotank	1	0	0	1	1
Pender	3	1	3	2	1
Perquimans	0	0	0	0	0
Person	1	0	0	0	0
Pitt	0	0	0	0	1
Polk	0	0	0	1	0
Randolph	1	0	1	4	1
Richmond	0	1	0	1	1
Robeson	4	1	1	1	0
Rockingham	0	3	0	1	0
Rowan	3	1	1	0	4
Rutherford	0	0	0	0	0
Sampson	0	0	0	1	7
Scotland	0	0	0	0	0
Stanly	0	0	0	0	1
Stokes	0	0	0	0	0
Surry	0	0	0	0	0
Swain	0	0	0	0	0
Transylvania	0	0	0	0	0
Tyrrell	0	0	0	0	0

<b>REVISED 6/2/2005</b>					
<b>Table 22</b>	<b>Foreign-Born TB Cases by County 2000-2004</b>				
<b>County</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
<b>Union</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>
<b>Vance</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Wake</b>	<b>12</b>	<b>20</b>	<b>30</b>	<b>19</b>	<b>30</b>
<b>Warren</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Washington</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Watauga</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Wayne</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>5</b>
<b>Wilkes</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>
<b>Wilson</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Yadkin</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>
<b>Yancey</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>North Carolina</b>	<b>115</b>	<b>125</b>	<b>133</b>	<b>111</b>	<b>135</b>

Data source: CaroTIMS.

<b>Table 23</b>	<b>Foreign-Born Cases by Country of Origin 2000-2004*</b>				
<b>Year</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
Algeria	0	0	0	1	0
Argentina	0	0	0	0	2
Benin	0	0	1	0	0
Bosnia & Herzegovina	0	1	0	0	0
Brazil	1	0	0	0	0
Burkina (Upper Volta)	1	0	0	0	0
Burma	0	1	0	1	0
Cambodia	0	0	2	0	0
Cameroon	0	0	1	0	0
Cayman Islands	1	0	0	0	0
China	2	0	0	4	2
Colombia	0	1	1	0	0
Congo	1	1	1	2	1
Cuba	0	1	1	0	0
Djibouti	0	0	0	1	0
Dominican Republic	1	0	0	0	0
Ecuador	0	0	1	0	2
El Salvador	1	3	3	2	1
Ethiopia	4	0	2	1	5
France	0	1	0	0	1
Gabon	1	0	0	1	0
Gambia	1	1	1	0	1
Georgia	0	1	0	0	0
Germany	0	1	1	0	0
Guadeloupe	0	0	0	0	1
Guatemala	5	3	3	4	5
Haiti	1	0	0	1	0
Honduras	9	7	2	4	7
Hong Kong	1	0	0	0	0
India	8	13	10	7	7
Indonesia	1	0	1	2	1
Iran	0	0	0	0	1
Ireland	0	1	0	0	1
Ivory Coast	1	0	0	0	0
Japan	0	1	0	0	1
Kazakhstan	1	0	0	0	0
Kenya	2	0	1	1	4
Korea (North)	0	0	1	0	1
Korea Republic of	0	1	2	2	3
Kuwait	0	0	0	0	1
Laos	3	3	2	0	2
Liberia	0	2	1	0	0
Malaysia	0	0	0	1	0
Mexico	45	58	56	48	54



<b>Table 23</b>	<b>Foreign-Born Cases by Country of Origin 2000-2004*</b>				
<b>Year</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
Monaco	1	0	0	0	0
Morocco	0	1	0	0	0
Nauru	1	0	0	0	0
Nepal	0	0	0	0	1
Niger	0	1	4	1	0
Nigeria	1	0	0	0	0
Oman	0	1	0	0	0
Pakistan	2	1	2	1	0
Peru	1	1	1	3	1
Philippines	1	4	5	4	7
Pitcairn Islands	0	0	0	1	0
Reunion	1	0	0	0	0
Romania	0	0	0	1	0
San Marino	0	0	1	0	0
Senegal	0	0	0	0	1
Sierra Leone	0	0	1	1	0
Somalia	3	4	0	1	1
South Africa	0	0	0	1	0
Russia	1	0	1	0	1
Sudan	0	0	1	0	1
Syria	0	0	0	1	0
Thailand	0	1	0	2	1
Togo	0	0	1	1	0
Turkey	0	0	1	0	0
Venezuela	1	0	1	0	0
Vietnam	5	5	12	7	12
Zaire	1	2	5	1	1
Zambia	1	1	2	1	0

\*Data Source: CaroTIMS.

<b>Table 24</b>	<b>Hispanic TB Cases by County 2000-2004</b>				
<b>County</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
<b>Alamance</b>	0	1	0	2	0
<b>Alexander</b>	0	0	0	0	0
<b>Alleghany</b>	0	1	0	0	0
<b>Anson</b>	0	0	0	0	0
<b>Ashe</b>	0	0	1	0	0
<b>Avery</b>	0	0	0	0	0
<b>Beaufort</b>	0	0	0	1	0
<b>Bertie</b>	0	0	0	1	1
<b>Bladen</b>	1	0	0	0	0
<b>Brunswick</b>	1	1	0	0	0
<b>Buncombe</b>	0	1	1	1	1
<b>Burke</b>	2	1	0	0	2
<b>Cabarrus</b>	1	0	1	3	2
<b>Caldwell</b>	0	0	0	1	0
<b>Camden</b>	0	0	0	1	0
<b>Carteret</b>	0	0	0	0	0
<b>Caswell</b>	0	0	0	0	0
<b>Catawba</b>	1	0	0	0	0
<b>Chatham</b>	1	0	1	0	0
<b>Cherokee</b>	0	0	1	0	0
<b>Chowan</b>	0	0	0	0	0
<b>Clay</b>	0	0	0	0	0
<b>Cleveland</b>	0	0	1	0	0
<b>Columbus</b>	2	2	1	1	2
<b>Craven</b>	0	0	0	0	0
<b>Cumberland</b>	0	0	1	0	1
<b>Currituck</b>	0	0	0	0	0
<b>Dare</b>	1	0	1	0	0
<b>Davidson</b>	0	0	0	0	0
<b>Davie</b>	0	0	0	0	3
<b>Duplin</b>	2	1	4	1	1
<b>Durham</b>	8	6	6	4	8
<b>Edgecombe</b>	2	0	0	1	0
<b>Forsyth</b>	4	11	9	6	2
<b>Franklin</b>	0	2	0	1	0
<b>Gaston</b>	2	2	2	1	0
<b>Gates</b>	0	0	0	0	0
<b>Graham</b>	0	0	0	0	0
<b>Granville</b>	0	1	0	3	1
<b>Greene</b>	1	0	0	1	0
<b>Guilford</b>	2	6	5	0	1
<b>Halifax</b>	0	0	0	0	0
<b>Harnett</b>	0	0	1	0	0
<b>Haywood</b>	0	0	0	0	0

<b>Table 24</b>	<b>Hispanic TB Cases by County 2000-2004</b>				
<b>County</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
<b>Henderson</b>	3	1	1	3	3
<b>Hertford</b>	0	0	1	0	0
<b>Hoke</b>	1	0	1	0	0
<b>Hyde</b>	0	0	0	0	1
<b>Iredell</b>	0	1	2	1	0
<b>Jackson</b>	0	2	0	0	0
<b>Johnston</b>	2	1	0	2	1
<b>Jones</b>	0	0	0	0	0
<b>Lee</b>	1	0	1	0	1
<b>Lenoir</b>	0	0	0	0	0
<b>Lincoln</b>	0	0	0	0	0
<b>Macon</b>	0	0	0	0	1
<b>Madison</b>	0	0	0	0	0
<b>Martin</b>	0	0	0	0	0
<b>McDowell</b>	0	0	0	0	0
<b>Mecklenburg</b>	13	4	6	9	11
<b>Mitchell</b>	0	0	0	0	0
<b>Montgomery</b>	0	1	0	1	0
<b>Moore</b>	0	0	1	0	1
<b>Nash</b>	0	1	0	1	3
<b>New Hanover</b>	1	3	1	1	0
<b>Northampton</b>	0	1	0	0	0
<b>Onslow</b>	0	0	0	0	0
<b>Orange</b>	0	1	1	0	0
<b>Pamlico</b>	0	0	0	0	0
<b>Pasquotank</b>	1	0	0	2	1
<b>Pender</b>	3	1	3	2	1
<b>Perquimans</b>	0	0	0	0	0
<b>Person</b>	1	0	0	0	0
<b>Pitt</b>	0	0	0	0	1
<b>Polk</b>	0	0	0	1	0
<b>Randolph</b>	1	0	1	4	0
<b>Richmond</b>	0	1	0	1	1
<b>Robeson</b>	4	2	2	1	0
<b>Rockingham</b>	0	3	0	1	0
<b>Rowan</b>	1	1	1	0	4
<b>Rutherford</b>	0	0	0	0	0
<b>Sampson</b>	0	0	0	0	7
<b>Scotland</b>	0	0	0	0	0
<b>Stanly</b>	0	0	0	0	1
<b>Stokes</b>	0	0	0	0	0
<b>Surry</b>	0	0	0	0	0
<b>Swain</b>	0	0	0	0	0
<b>Transylvania</b>	0	0	0	0	0
<b>Tyrrell</b>	0	0	0	0	0
<b>Union</b>	2	2	2	2	1

<b>Table 24</b>	<b>Hispanic TB Cases by County 2000-2004</b>				
<b>County</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
<b>Vance</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Wake</b>	<b>2</b>	<b>9</b>	<b>9</b>	<b>6</b>	<b>21</b>
<b>Warren</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Washington</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Watauga</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Wayne</b>	<b>0</b>	<b>2</b>	<b>4</b>	<b>2</b>	<b>5</b>
<b>Wilkes</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>
<b>Wilson</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Yadkin</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>
<b>Yancey</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>North Carolina</b>	<b>67</b>	<b>77</b>	<b>76</b>	<b>69</b>	<b>91</b>

Data source: CaroTIMS.