

North Carolina
Department of
Health and Human Services
Division of Medical Assistance

North Carolina
Be Smart Family Planning Waiver
Waiver Year Two
Interim Data Analysis Report

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**North Carolina Family Planning Waiver
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Summary

The North Carolina Department of Health and Human Services (DHHS) engaged Navigant Consulting, Inc. to provide an independent evaluation of the State's Be Smart Family Planning Waiver, and determine the extent to which the Waiver objectives have been met—namely, whether there is improved access to Medicaid family planning services for low-income men and women, and if desired outcomes have been reached, including reduction of unplanned pregnancies, effective use of contraceptives and maternal and infant health.

This report provides an update to the Baseline Fertility Report provided to DHHS in July 2007. In this report we provide estimates of the Waiver Year 2 enrollment, participation, fertility rate and the budget neutrality cost savings calculation. This report was required two months after the end of Waiver Year 2.

We used the following data to estimate results for Waiver Year 2:

- Participant claims data for dates of service from October 1, 2006 through May 31, 2007, or eight months of paid claims data. This report was due two months after the end of Waiver Year 2; however, data for Waiver Year 2 were incomplete. To address this issue of incomplete data, we estimated participation for the last four months of Waiver Year 2. We projected participation for four months using a linear regression model (method of least squares) to estimate a full year of claims activity.
- Prenatal, delivery and postnatal claims data for the most recent 12 months of participation, for the period from September 2006 through August 2007. Deliveries that would result from participation during Waiver Year 2 would begin to occur during the second quarter of 2007. Due to limited available data related to births that occurred during Waiver Year 2, we included birth data from Waiver Year 1 to predict costs based on a full 12-month period.
- Enrollment data for the entire period of Waiver Year 1 and 2.

We used the above data to project results for participation, fertility and budget neutrality. We will update these analyses in the Waiver Year 2 Annual Report upon the availability of data for services through the end of Waiver Year 2.

The enrollment data file provided a complete listing of Waiver Year 2 enrollees. The enrollment numbers for Waiver Year 2 included any individual who was enrolled in the Family Planning Waiver for any period of time during Waiver Year 2. Enrollment

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figures that can be found in the Quarterly Narratives report the number of enrollees as of a certain date or at a point in time. The enrollment number reported in this report will be higher than a point in time count of enrollees because it will include an accumulation of individuals who begin or end enrollment during the period of October 1, 2006 through September 30, 2007, rather than only those individuals enrolled on a given day.

Through our analysis of Waiver Year 2 of North Carolina's Be Smart Family Planning Waiver, we observed the following:

- The State enrolled 41,520 females and 7,873 males in Waiver Year 2. This represents an 8.2 percent enrollment rate for women from an estimated 506,378 potential female enrollees across the State and a 1.9 percent enrollment rate for men from an estimated 421,081 potential male enrollees. Compared to Waiver Year 1, enrollment rates increased for both females and males.
- The number of men and women eligible for the Family Planning Waiver in Waiver Year 2 increased compared to Waiver Year 1. At the same time, there was an increase in the percentage of men and women enrolled in the Waiver program, which might indicate improvements in the enrollment process or improvements in outreach to the eligible population.
- Among the Waiver's enrollees, we projected that the Waiver provided services to 16,883 females and 130 male participants during Waiver Year 2. The participation rates were 40.7 percent among women and 1.7 percent among men. Compared to Waiver Year 1, we projected that participation rates increased for females (from 37.7 percent to 40.7 percent) and decreased for males (from 1.8 percent to 1.7 percent).
- Among these projected participants, we projected that the Be Smart Family Planning Waiver would be budget neutral for Waiver Year 2 with respect to federal expenditures. We projected that the reduced costs associated with an estimated 1,541 – 1,758 averted births for Waiver Year 2 would offset the costs of the Waiver by an estimated \$15.9 million to \$18.7 million.
- The family planning Waiver expenditures were \$4.3 million for Waiver Year 2, October 1, 2006 to September 30, 2007.
- We reviewed the types of providers who served participants in Waiver Year 2. We found the most common provider specialties were Health Departments, Hospitals and the physician specialties of Obstetrics and

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Gynecology and General Family Practice. Appendix A provides a summary of the number and location of provider specialties that provided services to Family Planning Waiver participants during Waiver Year 2.

The results provided in this report should be considered preliminary estimates for Waiver Year 2. We will update these analyses in the Waiver Year 2 Annual Report upon the availability of data for services through the end of Waiver Year 2.

In the sections that follow, we report our Waiver Year 2 estimates for enrollment, participation, fertility rate and the budget neutrality cost savings calculation.

Enrollment and Participation Rate Updates

In the pages that follow, we provide updates to the Evaluation Plan Measures for enrollment and participation.

We use the enrollment file provided by DMA on October 17, 2007, to count the number of individuals with an enrollment period that overlapped with Waiver Year 2. We included in the counts for Waiver Year 2, individuals who began enrollment in Waiver Year 1 and continued to be enrolled in Waiver Year 2. Also, we counted anyone with an enrollment period that began in Waiver Year 2. We reported the unique count of individuals who met these criteria in the enrollment numbers reported for Waiver Year 2.

We used a linear regression model (method of least squares) to estimate participation for the final four months of Waiver Year 2, from which we did not have claims data. We used this method to estimate female and male participation for Waiver Year 2, as well as to estimate the number of vasectomies that might occur during Waiver Year 2.

Finally, we reviewed the types of providers who served participants in Waiver Year 2. We counted the number of visits to each provider by county. We found the most common provider specialties were Health Departments, Hospitals and the physician specialties of Obstetrics and Gynecology and General Family Practice. Appendix A provides a summary of the number and location of provider specialties that provided services to Family Planning Wavier participants during Waiver Year 2.

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Objective C.1.1: Short-term Outcome – Increase the number of eligible men and women enrolled.

Measure Definition: Unduplicated count of clients enrolled divided by unduplicated count of eligible clients.

Hypothesis: Increased proportions of eligible men and women will be enrolled in the Waiver each year.

Data Sources: MMIS Claims and enrollment files; American Community Survey (ACS)

Calculation: We calculated the unduplicated count of enrollees in the Waiver from MMIS as a percentage of estimates of eligible clients from ACS.

Annual Results: The following tables show the measure results for all women and men in the age category that defines eligibility and by five age categories.

Table C.1.1.1: Female Enrollee Rate, by Waiver Year

	Waiver Year 1	Waiver Year 2	Waiver Year 3	Waiver Year 4	Waiver Year 5
19 – 55	5.2%	8.2%			
19 – 39	7.6%	12.0%			
Age Category					
19 – 24	11.7%	17.3%			
25 – 29	8.1%	12.4%			
30 – 34	5.0%	8.4%			
35 – 39	3.7%	6.3%			
40 – 55	1.4%	2.1%			

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Table C.1.1.2: Male Enrollee Rate, by Waiver Year

	Waiver Year 1	Waiver Year 2	Waiver Year 3	Waiver Year 4	Waiver Year 5
19 – 60	1.3%	1.9%			
19 – 39	1.7%	2.6%			
Age Category					
19 – 24	2.0%	3.0%			
25 – 29	1.7%	2.6%			
30 – 34	1.7%	2.4%			
35 – 39	1.3%	1.9%			
40 – 60	0.8%	1.0%			

Discussion:

The numbers we report for this measure are actual results for Waiver Year 2. The enrollment numbers that we report for Waiver Year 2 include any individual who was enrolled in the Family Planning Waiver for any period of time during Waiver Year 2. This number will be higher than a point in time count of enrollees because it will include individuals who begin or end eligibility during the period of October 1, 2006 through September 30, 2007, rather than just those individuals eligible on a given day.

The enrollment rate among women of all ages was 8.2 percent, or 41,520 enrollees of 506,378 women eligible in North Carolina. The enrollment rate among women ages 19 – 39 was 12.0 percent, or 37,469 enrollees of 312,116 women eligible in North Carolina. The enrollment rate was highest for the youngest age category, 19 – 24 year old women. We overstated the number of eligible women in North Carolina because this estimate of 506,378 women includes women who are pregnant and women who cannot become pregnant: neither group would qualify for family planning Waiver services.¹ We provided the enrollment rate for 19 – 39

¹ The data available through the American Community Survey, used to estimate the eligible population in North Carolina, does not allow us to delineate fertile, non-pregnant women from women who might be pregnant or who might be infertile. Therefore the estimate of the eligible female population is overstated because it includes women who would not qualify for the Family Planning Waiver.

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year olds to show that there was a higher enrollment rate for women who we would expect to have higher fertility rates.

The enrollment rate among men of all ages was 1.9 percent, or 7,873 enrollees of 421,081 men eligible in North Carolina. The enrollment rate among men ages 19 – 39 was 2.6 percent, or 6,006 enrollees of 235,241 men eligible in North Carolina. The enrollment rate was highest for the youngest age category, 19 – 24 year old men.

Evaluation:

We observed an increase in the number of men and women eligible for the Family Planning Waiver in Waiver Year 2, as compared to Waiver Year 1. At the same time, there was an increase in the percentage of men and women enrolled in the Waiver program, which might indicate improvements in the enrollment process or improvements in outreach to the eligible population. In Waiver Year 2, there was an increase of 59 percent in the number of women enrolled and an increase of 41 percent in the number of men enrolled.

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Objective C.1.2: Short-term Outcome – Increase the number of women receiving services.

Measure Definition: Unduplicated count of enrollees receiving services in the last 12 months (participants).

Hypothesis: More low-income women who are enrolled in the Waiver will receive family planning services.

Data Source: MMIS Claims

Calculation: We divided the count of female participants by the count of female enrollees.

Annual Results: The following table shows the measure results for all women in the age category that defines eligibility and by five age categories.

Table C.1.2: Female Participation Rate, by Waiver Year

	Waiver Year 1	Est. Waiver Year 2	Waiver Year 3	Waiver Year 4	Waiver Year 5
19 – 55	37.7%	40.7%			
Age Category					
19 – 24	45.0%	47.1%			
25 – 29	39.4%	41.6%			
30 – 34	33.2%	38.6%			
35 – 39	28.6%	31.7%			
40 – 55	18.2%	20.6%			

Discussion: The numbers we report for this measure include projected estimates of participation for Waiver Year 2 and actual enrollment. We will update these analyses in the Waiver Year 2 Annual Report upon the availability of data for services through the end of Waiver Year 2.

The numerator of Objective C.1.1, number of female enrollees, became the denominator of this measure. The participation rate

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among female enrollees was estimated to be 40.7 percent overall, or a projected 16,883 participants of the 41,520 female enrollees.

As of May 2007, the eighth month of Waiver Year 2, we counted 12,071 unique female participants. This was more participants than all of Waiver Year 1 (9,829).

We note that this objective is measured in terms of the percentage of enrollees. A larger number of enrollees without a corresponding increased participation among them could cause this measure to fall rather than to rise.

Evaluation: Comparing Waiver Year 1 and 2, we projected an increase of three percent for the overall participation rate for females. We projected for Waiver Year 2 that the number of female participants will increase by approximately 72 percent, as compared to Waiver Year 1.

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Objective C.1.3: Short-term Outcome – Increase the number of men receiving services.

Measure Definition: Unduplicated count of enrollees, participants and vasectomies.

Hypothesis: More low-income men who are enrolled in the Waiver will receive family planning services.

Data Source: MMIS Claims

Calculation: We divided the count of male participants by the count of male enrollees.

Annual Results: The first table shows the measure results for all men in the age category that defines eligibility and by five age categories. The second table shows the number of men who had a vasectomy in Waiver Year One.

Table C.1.3.1: Male Participation Rate, by Waiver Year

	Waiver Year 1	Est. Waiver Year 2	Waiver Year 3	Waiver Year 4	Waiver Year 5
19 – 60	1.8%	1.7%			
Age Category					
19 – 24	0.8%	0.6%			
25 – 29	3.1%	3.4%			
30 – 34	3.1%	2.6%			
35 – 39	2.5%	2.4%			
40 – 60	0.8%	0.8%			

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Table C.1.3.2: Number of Vasectomies, by Waiver Year

	Waiver Year 1	Est. Waiver Year 2	Waiver Year 3	Waiver Year 4	Waiver Year 5
19 – 60	27	39			

Discussion: The numbers we report for this measure include projected estimates of participation for Waiver Year 2 and actual enrollment. We will update these analyses in the Waiver Year 2 Annual Report upon the availability of data for services through the end of Waiver Year 2.

The numerator of Objective C.1.1, number of male enrollees, became the denominator of this measure. The participation rate among male enrollees was projected at 1.7 percent overall, or a projected 130 participants of the 7,873 male enrollees. We projected that the male participation rate will be highest for 25 – 29 year old men, which was the only age group to see an increase in the participation rate compared to Waiver Year 1.

As of May 2007, the eighth month of Waiver Year 2, we counted 86 unique male participants. For comparison, there were 100 male participants in Waiver Year 1.

The number of vasectomies in Waiver Year 1 was 27, and as of May 2007, 25 vasectomies occurred during Waiver Year 2. We projected 39 vasectomies in Waiver Year 2. This means that 30 percent of the 130 male participants are projected to have a vasectomy.

We projected the rate of male participation to continue to be much lower than the rate of female participation.

We note that this objective is measured in percentage terms of enrollees. A larger number of enrollees without a corresponding increased participation among them could cause this measure to fall rather than to rise.

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Evaluation: Although the overall rate of participation is projected to decrease by one tenth of a percent for males, we projected that the number of male participants will increase by an estimated 30 percent. However, since the number of enrollees for Waiver Year 2 increased at a higher rate, 41 percent, the ratio of participants to enrollees decreased. Based on our estimates, we project that the number of vasectomies will increase by an estimated 44 percent as compared to Waiver Year 1.

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Review of Baseline Fertility Rate Calculations

Budget neutrality is determined by a formula that compares the reduced costs for health care services associated with a reduced fertility rate among Waiver participants, relative to a baseline fertility rate prior to the Waiver, against the increased costs for family planning services to Waiver participants.

The baseline fertility rate for potential Waiver participants in the budget neutrality formula must be calculated from public survey data about women in North Carolina and from the State’s MMIS claims data for all Medicaid participants.² The baseline fertility rate cannot be calculated from data about the specific women who would have been potentially eligible, enrolled or participated in the Waiver during the baseline year, as these women cannot be identified prior to the year that the Waiver began.

The baseline fertility rate is calculated as the estimated number of births per 1,000 women who would have participated in the Waiver Program in North Carolina if the Waiver Program had been operating during calendar year 2003:

$$\text{Baseline fertility rate} = \frac{\text{Number of births to "participating women" in NC in 2003} * 1,000}{\text{Number of "participating women" in NC in 2003}}$$

We calculated the baseline fertility rate for all women below 185 percent of the FPL. Table 2 below shows the results of the baseline fertility rate calculation. As required in the evaluation plan for the Waiver, we present the fertility rates in age groups.

Table 2: Baseline Fertility Rate

Measure	Ages 19 – 24	Ages 25 – 29	Ages 30 – 34	Ages 35 – 39	Ages 40 – 55	Ages 19 – 55
Baseline Fertility Rate	154.8	157.9	61.2	31.1	3.31	78.1

The baseline fertility rate for the 19-55 age group means that approximately seventy—eight women out of every one thousand women in this age group, and below 185 percent of the FPL, had a live birth in 2003. Women in younger age groups tend to have a higher fertility rate.

² An example of public survey data is the decennial census. We use other public survey data from the U.S. Bureau of the Census that are from sample surveys conducted in the years between the censuses.

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Waiver Year 2 Fertility Rate and Cost Savings Estimates

Using the data that was available from Waiver Year 2, we present estimates of the Waiver Year 2 fertility rate and cost savings. As described above, the fertility rate is the ratio of participant births to total participants. To develop the fertility rate estimate for Waiver Year 2, we used estimates of the total number of births by participants and estimates of the total number of female participants. We will update these analyses in the Waiver Year 2 Annual Report upon the availability of data for services through the end of Waiver Year 2.

To project births, we had only three months of data available from Waiver Year 2, for the period from June 2007 through August 2007. Rather than simply projecting nine months of deliveries based on three months of data, we used a linear regression model (method of least squares) using data from Waiver Year 1 and 2 to develop a range of birth counts using two approaches:³

- Approach 1: Use all available months of deliveries, starting from June 2006 through August 2007.
- Approach 2: Use the last nine months of deliveries, starting from December 2006 through August 2007. This further removes from our projection of deliveries the delivery counts from the start-up time of Waiver Year 1 when fewer deliveries occurred.

The results of our estimates provided us with a range of fertility rates and ultimately a range of the count of births averted and cost savings. Approach 1 provided the lower range of the estimates for births and fertility rate while Approach 2 provided the higher estimate of births and fertility rate. Estimates for averted births were higher for Approach 1 and lower for Approach 2. We report our range of estimates in Table 3 on the next page.

³ To assist us to validate the results of our two approaches, we also looked at an approach that we expected to provide results that fell within the range of Approach 1 and 2. We verified that using the last 12 months of deliveries, for the period from September 2006 through August 2007, provided results within the range for Approach 1 and 2.

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Table 3: Summary of Waiver Year 2 Fertility Rate and Averted Birth Estimates

	Baseline Fertility Rate (per 1,000)	Range of Estimated Annual Births by Participants	Estimated Total Participants	Range of Estimated Waiver Year 2 Fertility Rate (per 1,000)	Range of Estimated Averted Births Rate (per 1,000)	Range of Estimated Averted Births
All ages	n/a	384 - 601	16,883	n/a	91.3 - 104.1	1,541 - 1,758
19 – 24	154.8	218 - 346	8,670	25.1 - 39.9	114.9 - 129.7	996 - 1,124
25 – 29	157.9	109 - 160	3,960	27.4 - 40.3	117.6 - 130.5	466 - 517
30 – 34	61.2	43 - 73	2,190	19.8 - 33.1	28.1 - 41.4	61 - 91
35 – 39	31.1	13 - 21	1,232	10.3 - 17.3	13.8 - 20.8	17 - 26
40 – 55	3.31	2	833	2.1 - 2.3	1.0 - 1.2	0 - 1

The estimates of fertility rates for Waiver Year 2 were generally lower compared to the results from Waiver Year 1. However, because the projected number of participants was higher in Waiver Year 2 than in Waiver Year 1, the projected number of averted births was likewise higher. If participation were constant, lower fertility rates would result in lower estimates of averted births.

With a higher estimate of averted births for Waiver Year 2 as compared to Waiver Year 1, the results for estimated cost savings were also higher compared to Waiver Year 1. Our estimates for cost savings ranged from \$15.9 million to \$18.7 million for Waiver Year 2, depending on the approach to estimate the number of births. Compared to Waiver Year 1, we estimated a 72 percent increase in the number of participants. At the same time, we reported a wide range of births as our estimate. Both estimates will impact the fertility rate and estimates of cost savings.

Table 4: Summary of Waiver Year 2 Estimated Cost Savings

Estimated Births Averted	Estimated Average Births Costs ⁴	Range of Estimated Averted Medicaid Costs	Waiver Year 2 Program Expenditures	Range of Estimated Overall Medicaid Cost Savings
1,541 - 1,758	\$13,078	\$20,153,000 - \$22,991,000	\$4,288,000	\$15,865,000 - \$18,703,000

⁴ The Medicaid costs of a birth include prenatal, delivery, postnatal, newborn and infant care.

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It is important to recognize that there is a positive relationship between the number of participants and the cost savings. This positive relationship occurs because the averted birth rate is multiplied by the estimated number of participants for calculation of the estimated number of averted births. A higher estimated number of participants correspond to a higher estimated number of averted births and a larger estimated amount of averted Medicaid costs. Therefore, if our estimate of participation is higher than the actual participation for Waiver Year 2, our estimate of cost savings will also be higher. In turn, a lower participation estimate will mean a lower estimate of cost savings.

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Appendix A: Count and Location of Provider Specialties Providing Services To Waiver Year Two Participants, by County

COUNTY	ANESTHESIOLOGY	CARDIOLOGY	CLINIC - AMBULATORY SURGERY OR BIRTHING CENTER	DERMATOLOGY	FEDERALLY QUALIFIED HEALTH CLINIC (FQHC)	FULL-TIME EMERGENCY ROOM PHYSICIAN	GENERAL FAMILY PRACTICE
ALAMANCE	4	1			9		3
ALEXANDER							
ALLEGHANY							1
ANSON							
ASHE							6
AVERY							3
BEAUFORT	1						
BERTIE							
BLADEN							
BRUNSWICK	4						17
BUNCOMBE	2						11
BURKE	4						5
CABARRUS	4		1				20
CALDWELL	1						3
CAMDEN							5
CARTERET							5
CASWELL					8		
CATAWBA	2					1	5
CHATHAM					17		13
CHEROKEE							
CHOWAN	1						
CLAY							2
CLEVELAND	4						
COLUMBUS							1
CRAVEN	1					2	
CUMBERLAND	4		3		2		14
CURRITUCK							3
DARE	1						3
DAVIDSON	3						23

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COUNTY	GENERAL THORACIC SURGERY, PROCTOLOGY	HEALTH DEPARTMENT DEVELOPMENTAL EVALUATION CENTER (DEC)	HOSPITALS	INDEPENDENT LABORATORY	INTERNAL MEDICINE	MULTI-SPECIALTY	NURSE MIDWIFE
ALAMANCE		83	3	179			
ALEXANDER		26					
ALLEGHANY		2					
ANSON		46					
ASHE	3	5	1				
AVERY		27			10		
BEAUFORT		79	14		5	14	
BERTIE		34					
BLADEN		57	5				
BRUNSWICK		61	2				
BUNCOMBE		163	5				3
BURKE		118					
CABARRUS		81	6		4	2	
CALDWELL		61	1				
CAMDEN		13					
CARTERET	2	111	2				
CASWELL		47					
CATAWBA		266	3				
CHATHAM		10			2		
CHEROKEE		8					
CHOWAN		50					
CLAY		2					
CLEVELAND		228	5				
COLUMBUS	1	78	14		12	4	
CRAVEN		91	7		6		
CUMBERLAND		50	63		29	4	
CURRITUCK							
DARE		20	1				
DAVIDSON		77	6				

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COUNTY	NURSE PRACTITIONER OR CRNA	OBSTETRICS GYNECOLOGY	PATHOLOGY	PEDIATRICS	PHARMACIES	RURAL HEALTH CLINIC (RHC)	UROLOGY
ALAMANCE	3	24			236		5
ALEXANDER					124	1	
ALLEGHANY					22		
ANSON					86		
ASHE	1	4			48		
AVERY					120		
BEAUFORT		5			249		
BERTIE					57		
BLADEN	4	23			152	10	
BRUNSWICK		34			394		
BUNCOMBE	3	78			459		
BURKE		53			292		
CABARRUS		70	3		368		
CALDWELL	1	43			187		5
CAMDEN					21		
CARTERET	5	156			401		
CASWELL	1				93		
CATAWBA		9	198		600		8
CHATHAM					67		
CHEROKEE					79		
CHOWAN	1	23			89		
CLAY					8		
CLEVELAND	3	13			213		2
COLUMBUS	2	36			411		
CRAVEN		18			164	20	
CUMBERLAND	1	332			1196		1
CURRITUCK					15		
DARE		10			117		
DAVIDSON		84			391		

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COUNTY	ANESTHESIOLOGY	CARDIOLOGY	CLINIC - AMBULATORY SURGERY OR BIRTHING CENTER	DERMATOLOGY	FEDERALLY QUALIFIED HEALTH CLINIC (FQHC)	FULL-TIME EMERGENCY ROOM PHYSICIAN	GENERAL FAMILY PRACTICE
DAVIE							1
DUPLIN					22		1
DURHAM							6
EDGECOMBE							4
FORSYTH	3						50
FRANKLIN							2
GASTON							29
GATES							
GRAHAM							
GRANVILLE							2
GREENE					5		
GUILFORD	4		3				5
HALIFAX					6		
HARNETT					9		
HAYWOOD							3
HENDERSON	1				3		3
HERTFORD							3
HOKE							6
HYDE							
IREDELL	4		1				5
JACKSON							2
JOHNSTON							24
JONES							
LEE							9
LENOIR					4		
LINCOLN							
MACON							1
MADISON							
MARTIN							

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COUNTY	GENERAL THORACIC SURGERY, PROCTOLOGY	HEALTH DEPARTMENT DEVELOPMENTAL EVALUATION CENTER (DEC)	HOSPITALS	INDEPENDENT LABORATORY	INTERNAL MEDICINE	MULTI-SPECIALTY	NURSE MIDWIFE
DAVIE		48	1			1	
DUPLIN		41	2				
DURHAM		74	11		1	5	
EDGEcombe		65					
FORSYTH	2	146	83	2		16	
FRANKLIN		87					
GASTON		516	33				
GATES		9					
GRAHAM		3					
GRANVILLE		40					
GREENE		54					
GUILFORD		390	10	78	1	2	
HALIFAX	3	92	3				
HARNETT		33	1		7		
HAYWOOD		140					
HENDERSON		28	3		1	3	
HERTFORD		10	1				
HOKE		26					
HYDE		5					
IREDELL		62	3		1	15	
JACKSON		5	1		3		
JOHNSTON		77	8		1		
JONES		3				1	
LEE		21	4				
LENOIR		49					
LINCOLN		4	1				
MACON		53	1				
MADISON		2					
MARTIN		40	3		1		2

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COUNTY	NURSE PRACTITIONER OR CRNA	OBSTETRICS GYNECOLOGY	PATHOLOGY	PEDIATRICS	PHARMACIES	RURAL HEALTH CLINIC (RHC)	UROLOGY
DAVIE					80		
DUPLIN	1	29			125		
DURHAM		11		3	522		
EDGEcombe					164	2	
FORSYTH		90		1	1046		
FRANKLIN					154		1
GASTON	10	21			455		1
GATES					30		
GRAHAM					15		
GRANVILLE		42			150	8	
GREENE					37		
GUILFORD	3	141	39		983		6
HALIFAX	1	67			341	2	
HARNETT		19			217		2
HAYWOOD		4	31	2	155		
HENDERSON	1	8			102		
HERTFORD		27			237		
HOKE		1			103		
HYDE					0		
IREDELL	1	41			519		
JACKSON		4			84		3
JOHNSTON	1	77			667		
JONES					14		
LEE		29			243		
LENOIR		14			238		
LINCOLN		28			211		4
MACON					103		
MADISON					37		
MARTIN		25			42		

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Appendix A: Count and Location of Provider Specialties Providing Services To Waiver Year Two Participants, by County

COUNTY	ANESTHESIOLOGY	CARDIOLOGY	CLINIC - AMBULATORY SURGERY OR BIRTHING CENTER	DERMATOLOGY	FEDERALLY QUALIFIED HEALTH CLINIC (FQHC)	FULL-TIME EMERGENCY ROOM PHYSICIAN	GENERAL FAMILY PRACTICE
MCDOWELL							1
MECKLENBURG	13		1	3	58		34
MITCHELL							1
MONTGOMERY							1
MOORE	1		2				2
NASH	4						3
NEW HANOVER	4				19		81
NORTHAMPTON					1		
ONSLOW	3		3				4
ORANGE					6		1
OUT-OF-STATE <= 40 MILES	1		1				1
PAMLICO							
PASQUOTANK							15
PENDER							
PERQUIMANS							
PERSON							2
PITT							63
POLK							
RANDOLPH				1			25
RICHMOND	2						1
ROBESON	4				42		
ROCKINGHAM	4						3
ROWAN	1						8
RUTHERFORD							6
SAMPSON	2				18		
SCOTLAND	1						3
STANLY	2						
STOKES							4

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Appendix A: Count and Location of Provider Specialties Providing Services To Waiver Year Two Participants, by County

COUNTY	GENERAL THORACIC SURGERY, PROCTOLOGY	HEALTH DEPARTMENT DEVELOPMENTAL EVALUATION CENTER (DEC)	HOSPITALS	INDEPENDENT LABORATORY	INTERNAL MEDICINE	MULTI-SPECIALTY	NURSE MIDWIFE
MCDOWELL		87	5				
MECKLENBURG		95	117	17	31	3	
MITCHELL		3				1	
MONTGOMERY		14					
MOORE		45					
NASH		70	8	3		8	
NEW HANOVER		55	86		8	4	
NORTHAMPTON		55					
ONSLOW		65	2			1	
ORANGE		11	3		2	12	
OUT-OF-STATE <= 40 MILES			5	9			
PAMLICO		1					
PASQUOTANK		81					
PENDER		59	1				
PERQUIMANS		22					
PERSON		50					
PITT		48	4		2	98	
POLK		3					
RANDOLPH		36	3		4		
RICHMOND		37	6				
ROBESON		82	7				
ROCKINGHAM		40	2				
ROWAN		36	3		1		
RUTHERFORD		49	4				2
SAMPSON		114	5			7	
SCOTLAND		93	2				
STANLY		54	4		2		
STOKES		35					

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COUNTY	NURSE PRACTITIONER OR CRNA	OBSTETRICS GYNECOLOGY	PATHOLOGY	PEDIATRICS	PHARMACIES	RURAL HEALTH CLINIC (RHC)	UROLOGY
MCDOWELL	5	5			169		
MECKLENBURG		48	5	2	1068		
MITCHELL					87		
MONTGOMERY					155		
MOORE		55			108		
NASH	4	26			330		3
NEW HANOVER	1	47	127		610		2
NORTHAMPTON					33		
ONSLOW	3	71			314	1	7
ORANGE		6			101		
OUT-OF-STATE <= 40 MILES	1	7	2		54		
PAMLICO					10		
PASQUOTANK	3	45			232		
PENDER					95		
PERQUIMANS					52		
PERSON		8			50		
PITT		4	70	3	450		3
POLK	2				36		
RANDOLPH		20			258	1	
RICHMOND		61		1	207		
ROBESON	3	78	1		724	10	6
ROCKINGHAM	1	91			405		
ROWAN	6	8	8		232		2
RUTHERFORD		11			122		
SAMPSON	2	17			306		
SCOTLAND		22			189		
STANLY	3	106			348	1	1
STOKES					104		

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COUNTY	ANESTHESIOLOGY	CARDIOLOGY	CLINIC - AMBULATORY SURGERY OR BIRTHING CENTER	DERMATOLOGY	FEDERALLY QUALIFIED HEALTH CLINIC (FQHC)	FULL-TIME EMERGENCY ROOM PHYSICIAN	GENERAL FAMILY PRACTICE
SURRY	3						2
SWAIN							
TRANSYLVANIA							2
TYRRELL							
UNION							22
VANCE	1						9
WAKE	8				27		10
WARREN							
WASHINGTON							
WATAUGA							
WAYNE	2				1		6
WILKES							1
WILSON					2		1
YADKIN		1					
YANCEY							10
TOTAL	104	2	15	4	259	3	621

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SURRY		55	3	1			
SWAIN		1	4				
TRANSYLVANIA		6	4				
TYRRELL		18					
UNION		138	49				
VANCE		42	1				
WAKE		557	22	12	1	11	
WARREN		2					
WASHINGTON		71					
WATAUGA	1	6					
WAYNE		251	6				
WILKES		19	3				
WILSON		62	16				
YADKIN		21			4		
YANCEY		24					
TOTAL	12	6630	682	301	139	212	7

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COUNTY	NURSE PRACTITIONER OR CRNA	OBSTETRICS GYNECOLOGY	PATHOLOGY	PEDIATRICS	PHARMACIES	RURAL HEALTH CLINIC (RHC)	UROLOGY
SURRY		16			145		4
SWAIN					24		
TRANSYLVANIA					46		
TYRRELL					13		
UNION		12			287		
VANCE		14			310	52	
WAKE	8	104		29	1531		
WARREN					40		
WASHINGTON					50		
WATAUGA		2			52		
WAYNE	2	10		1	295		2
WILKES		19			114		
WILSON		130			159		
YADKIN					72		
YANCEY					132		
TOTAL	87	2736	484	42	23852	108	68