

# 2011 North Carolina





# Introduction

Where we live matters to our health. The health of a community depends on many different factors, including quality of health care, individual behavior, education and jobs, and the environment. We can improve a community's health through programs and policies. For example, people who live in communities with ample park and recreation space are more likely to exercise, which reduces heart disease risk. People who live in communities with smoke-free laws are less likely to smoke or to be exposed to second-hand smoke, which reduces lung cancer risk.

The problem is that there are big differences in health across communities, with some places being much healthier than others. And up to now, it has been hard to get a standard way to measure how healthy a county is and see where they can improve.

The Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute are pleased to present the 2011 County Health Rankings, a collection of 50 reports that reflect the overall health of counties in every state across the country. For the second year in a row, counties can get a snapshot of how healthy their residents are by comparing their overall health and the factors that influence their health with other counties in their state. This allows communities to see county-to-county where they are doing well and where they need to improve.

Everyone has a stake in community health. We all need to work together to find solutions. The County Health Rankings serve as both a call to action and a needed tool in this effort.





All of the County Health Rankings are based upon this model of population health improvement:



In this model, health outcomes are measures that describe the current health status of a county. These health outcomes are influenced by a set of health factors. These health factors and their outcomes may also be affected by community-based programs and policies designed to alter their distribution in the community. Counties can improve health outcomes by addressing all health factors with effective, evidence-based programs and policies.

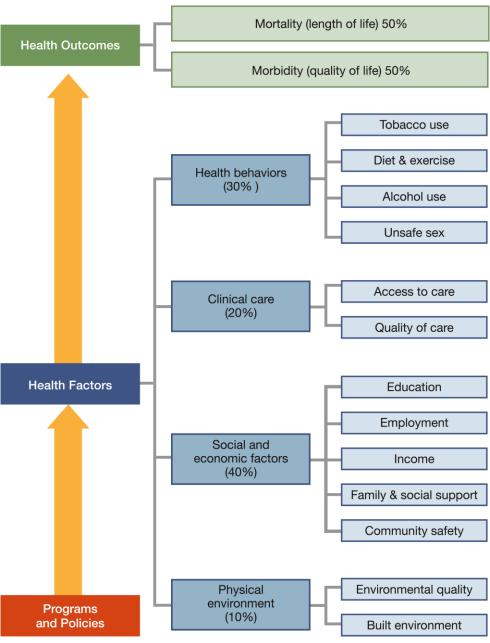
To compile the Rankings, we built on our prior work in Wisconsin, obtained input from a team of expert advisors, and worked closely with staff from the National Center for Health Statistics. Together we selected a number of population health measures based on scientific relevance, importance, and availability of data at the county level.

For a more detailed explanation of our approach, the methods used to compile the Rankings, information on the action steps communities can take to improve their health, and examples of communities in action, see www.countyhealthrankings.org

# The Rankings

This report ranks North Carolina counties according to their summary measures of health outcomes and health factors, as well as the components used to create each summary measure. The figure below depicts the structure of the Rankings model. Counties receive a rank for each population health component; those having high ranks (e.g., 1 or 2) are estimated to be the "healthiest."

Our summary health outcomes rankings are based on an equal weighting of mortality and morbidity measures. The summary health factors rankings are based on weighted scores of four types of factors: behavioral, clinical, social and economic, and environmental. The weights for the factors (shown in parentheses in the figure) are based upon a review of the literature and expert input, but represent just one way of combining these factors.

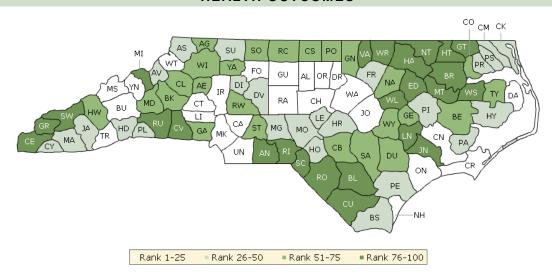


County Health Rankings model ©2010 UWPHI

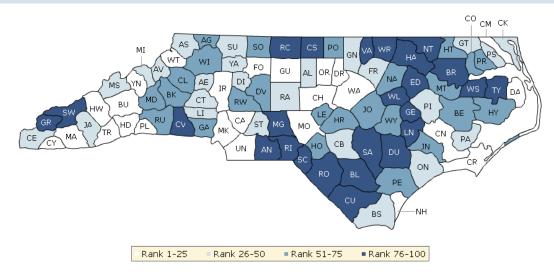
The maps on this page display North Carolina's counties divided into groups by health rank. The lighter colors indicate better performance in the respective summary rankings. The green map shows the distribution of summary health outcomes. The blue displays the distribution of the summary rank for health factors.

Maps help locate the healthiest and least healthy counties in the state. The health factors map appears similar to the health outcomes map, showing how health factors and health outcomes are closely related.

# **HEALTH OUTCOMES**



### **HEALTH FACTORS**



# **Summary Health Outcomes & Health Factors Rankings**

Counties receive two summary ranks:

- Health Outcomes
- Health Factors

Each of these ranks represents a weighted summary of a number of measures.

Health outcomes represent how healthy a county is while health factors are what influences the health of the county.

| Rank | Health Outcomes | Rank | Health Factors |
|------|-----------------|------|----------------|
| 1    | Wake            | 1    | Orange         |
| 2    | Orange          | 2    | Wake           |
| 3    | Union           | 3    | Buncombe       |
| 4    | Watauga         | 4    | New Hanover    |
| 5    | Mecklenburg     | 5    | Watauga        |
| 6    | Dare            | 6    | Henderson      |
| 7    | Cabarrus        | 7    | Union          |
| 8    | New Hanover     | 8    | Polk           |
| 9    | Durham          | 9    | Durham         |
| 10   | Guilford        | 10   | Moore          |
| 11   | Chatham         | 11   | Transylvania   |
| 12   | Onslow          | 12   | Chatham        |
| 13   | Carteret        | 13   | Forsyth        |
| 14   | Madison         | 14   | Macon          |
| 15   | Iredell         | 15   | Mecklenburg    |
| 16   | Yancey          | 16   | Clay           |
| 17   | Buncombe        | 17   | Guilford       |
| 18   | Catawba         | 18   | Camden         |
| 19   | Transylvania    | 19   | Cabarrus       |
| 20   | Alamance        | 20   | Haywood        |
| 21   | Lincoln         | 21   | Carteret       |
| 22   |                 | 22   | Iredell        |
|      | Forsyth         |      |                |
| 23   | Randolph        | 23   | Dare           |
| 24   | Johnston        | 24   | Yancey         |
| 25   | Craven          | 25   | Craven         |
| 26   | Jackson         | 26   | Davie          |
| 27   | Polk            | 27   | Catawba        |
| 28   | Henderson       | 28   | Stanly         |
| 29   | Moore           | 29   | Jackson        |
| 30   | Pasquotank      | 30   | Mitchell       |
| 31   | Pender          | 31   | Lincoln        |
| 32   | Ashe            | 32   | Onslow         |
| 33   | Davie           | 33   | Pamlico        |
| 34   | Macon           | 34   | Madison        |
| 35   | Clay            | 35   | Brunswick      |
| 36   | Harnett         | 36   | Cherokee       |
| 37   | Camden          | 37   | Pitt           |
| 38   | Lee             | 38   | Currituck      |
| 39   | Davidson        | 39   | Alamance       |
| 40   | Pamlico         | 40   | Yadkin         |
| 41   | Perquimans      | 41   | Alexander      |
| 42   | Pitt            | 42   | Gates          |
| 43   | Currituck       | 43   | Ashe           |
| 44   | Montgomery      | 44   | Granville      |
| 45   | Avery           | 45   | Avery          |
|      |                 |      |                |

| Rank | Health Outcomes | Rank | Health Factors |
|------|-----------------|------|----------------|
| 46   | Hyde            | 46   | Surry          |
| 47   | Franklin        | 47   | Randolph       |
| 48   | Brunswick       | 48   | Pasquotank     |
| 49   | Hoke            | 49   | Cumberland     |
| 50   | Surry           | 50   | Franklin       |
| 51   | Duplin          | 51   | Burke          |
| 52   | Cumberland      | 52   | Johnston       |
| 53   | Wayne           | 53   | Gaston         |
| 54   | Caldwell        | 54   | Pender         |
| 55   | Tyrrell         | 55   | Caldwell       |
| 56   | Alexander       | 56   | Wayne          |
| 57   | Yadkin          | 57   | Beaufort       |
| 58   | Person          | 58   | Hyde           |
| 59   | McDowell        | 59   | Lee            |
| 60   | Beaufort        | 60   | Perquimans     |
| 61   | Nash            | 61   | McDowell       |
| 62   | Rowan           | 62   | Davidson       |
| 63   | Burke           | 63   | Jones          |
| 64   | Stanly          | 64   | Rutherford     |
| 65   | Haywood         | 65   | Alleghany      |
| 66   | Alleghany       | 66   | Person         |
| 67   | Caswell         | 67   | Nash           |
| 68   | Granville       | 68   | Wilkes         |
| 69   | Wilkes          | 69   | Chowan         |
| 70   | Greene          | 70   | Hertford       |
| 71   | Sampson         | 71   | Harnett        |
| 72   | Chowan          | 72   | Stokes         |
| 73   | Stokes          | 73   | Rowan          |
| 74   | Rockingham      | 74   | Hoke           |
| 75   | Gaston          | 75   | Martin         |
| 76   | Wilson          | 76   | Lenoir         |
| 77   | Cleveland       | 77   | Washington     |
| 78   | Washington      | 78   | Cleveland      |
| 79   | Cherokee        | 79   | Wilson         |
| 80   | Graham          | 80   | Sampson        |
| 81   | Gates           | 81   | Caswell        |
| 82   | Rutherford      | 82   | Greene         |
| 83   | Lenoir          | 83   | Duplin         |
| 84   | Mitchell        | 84   | Bertie         |
| 85   | Jones           | 85   | Montgomery     |
| 86   | Martin          | 86   | Rockingham     |
| 87   | Anson           | 87   | Northampton    |
| 88   | Richmond        | 88   | Bladen         |
| 89   | Scotland        | 89   | Richmond       |
| 90   | Swain           | 90   | Graham         |
| 91   | Hertford        | 91   | Halifax        |
| 92   | Bertie          | 92   | Swain          |
| 93   | Northampton     | 93   | Tyrrell        |
| 94   | Vance           | 94   | Columbus       |
| 95   | Edgecombe       | 95   | Warren         |
| 96   | Bladen          | 96   | Scotland       |
| 97   | Warren          | 97   | Anson          |
| 98   | Robeson         | 98   | Vance          |
| 99   | Halifax         | 99   | Edgecombe      |
| 100  | Columbus        | 100  | Robeson        |
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# **Health Outcomes Rankings**

The summary health outcomes ranking is based on measures of mortality and morbidity. Each county's ranks for mortality and morbidity are displayed here. The mortality rank, representing length of life, is based on a measure of premature death: the years of potential life lost prior to age 75.

The morbidity rank is based on measures that represent health-related quality of life and birth outcomes. We combine four morbidity measures: self-reported fair or poor health, poor physical health days, poor mental health days, and the percent of births with low birthweight.

| Donle     | B# a ut a lite.            | Ba obidio             |
|-----------|----------------------------|-----------------------|
| Rank<br>1 | Mortality<br>Wake          | Morbidity<br>Wake     |
| 2         | Orange                     | Orange                |
| 3         | Union                      | Union                 |
| 4         | Watauga                    | Polk                  |
| 5         |                            |                       |
| 6         | Mecklenburg<br>New Hanover | Transylvania<br>Macon |
| 7         |                            |                       |
| 8         | Dare                       | Mecklenburg           |
| 9         | Durham                     | Jackson               |
| -         | Cabarrus                   | Cabarrus              |
| 10        | Chatham                    | Craven                |
| 11        | Guilford                   | Watauga               |
| 12        | Johnston                   | Guilford              |
| 13        | Pasquotank                 | Person                |
| 14        | Onslow                     | Carteret              |
| 15        | Buncombe                   | Moore                 |
| 16        | Madison                    | Dare                  |
| 17        | Davie                      | Onslow                |
| 18        | Alamance                   | Clay                  |
| 19        | Yancey                     | Iredell               |
| 20        | Carteret                   | Durham                |
| 21        | Catawba                    | Chatham               |
| 22        | Iredell                    | Lincoln               |
| 23        | Forsyth                    | Madison               |
| 24        | Henderson                  | Randolph              |
| 25        | Randolph                   | New Hanover           |
| 26        | Lincoln                    | Nash                  |
| 27        | Alleghany                  | Pamlico               |
| 28        | Pender                     | Catawba               |
| 29        | Harnett                    | Forsyth               |
| 30        | Ashe                       | Brunswick             |
| 31        | Perquimans                 | Yancey                |
| 32        | Franklin                   | Avery                 |
| 33        | Rowan                      | Pender                |
| 34        | McDowell                   | Ashe                  |
| 35        | Moore                      | Buncombe              |
| 36        | Craven                     | Alamance              |
| 37        | Chowan                     | Henderson             |
| 38        | Davidson                   | Wayne                 |
| 39        | Transylvania               | Lee                   |
| 40        | Jackson                    | Camden                |
| 41        | Pitt                       | Duplin                |
| 42        | Caldwell                   | Currituck             |
| 43        | Camden                     | Harnett               |
| 44        | Clay                       | Johnston              |
| 45        | Hyde                       | Davidson              |
|           |                            |                       |

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| 69 Brunswick Martin 70 Wayne Wilson 71 Greene Wilkes 72 Cleveland Rutherford 73 Sampson Washington 74 Gaston Caswell 75 Jones Burke 76 Wilson Cherokee 77 Lenoir Stanly 78 Cherokee McDowell 79 Nash Cleveland 80 Mitchell Scotland 81 Washington Rowan 82 Rockingham Stokes 83 Person Anson 84 Rutherford Bertie 85 Northampton Lenoir 86 Graham Alleghany 87 Richmond Robeson 88 Hertford Chowan 89 Anson Vance 90 Warren Richmond 91 Scotland Mitchell 92 Martin Edgecombe 93 Halifax Gates 94 Vance Hertford 95 Bertie Bladen 96 Columbus Jones 97 Edgecombe Columbus 98 Bladen Halifax  | 67   | Beaufort                                |             |
| 70 Wayne Wilson 71 Greene Wilkes 72 Cleveland Rutherford 73 Sampson Washington 74 Gaston Caswell 75 Jones Burke 76 Wilson Cherokee 77 Lenoir Stanly 78 Cherokee McDowell 79 Nash Cleveland 80 Mitchell Scotland 81 Washington Rowan 82 Rockingham Stokes 83 Person Anson 84 Rutherford Bertie 85 Northampton Lenoir 86 Graham Alleghany 87 Richmond Robeson 88 Hertford Chowan 89 Anson Vance 90 Warren Richmond 91 Scotland Mitchell 92 Martin Edgecombe 93 Halifax Gates 94 Vance Hertford 95 Bertie Bladen 96 Columbus Jones 97 Edgecombe Columbus 98 Bladen Halifax  | 68   | Duplin                                  | Caldwell    |
| 71GreeneWilkes72ClevelandRutherford73SampsonWashington74GastonCaswell75JonesBurke76WilsonCherokee77LenoirStanly78CherokeeMcDowell79NashCleveland80MitchellScotland81WashingtonRowan82RockinghamStokes83PersonAnson84RutherfordBertie85NorthamptonLenoir86GrahamAlleghany87RichmondRobeson88HertfordChowan89AnsonVance90WarrenRichmond91ScotlandMitchell92MartinEdgecombe93HalifaxGates94VanceHertford95BertieBladen96ColumbusJones97EdgecombeColumbus98BladenHalifax99SwainNorthampton   | 69   |   | Martin      |
| 72 Cleveland Rutherford 73 Sampson Washington 74 Gaston Caswell 75 Jones Burke 76 Wilson Cherokee 77 Lenoir Stanly 78 Cherokee McDowell 79 Nash Cleveland 80 Mitchell Scotland 81 Washington Rowan 82 Rockingham Stokes 83 Person Anson 84 Rutherford Bertie 85 Northampton Lenoir 86 Graham Alleghany 87 Richmond Robeson 88 Hertford Chowan 89 Anson Vance 90 Warren Richmond 91 Scotland Mitchell 92 Martin Edgecombe 93 Halifax Gates 94 Vance Hertford 95 Bertie Bladen 96 Columbus 97 Edgecombe Columbus 98 Bladen Halifax   | 70   | Wayne                                   | Wilson      |
| 73SampsonWashington74GastonCaswell75JonesBurke76WilsonCherokee77LenoirStanly78CherokeeMcDowell79NashCleveland80MitchellScotland81WashingtonRowan82RockinghamStokes83PersonAnson84RutherfordBertie85NorthamptonLenoir86GrahamAlleghany87RichmondRobeson88HertfordChowan90WarrenRichmond91ScotlandMitchell92MartinEdgecombe93HalifaxGates94VanceHertford95BertieBladen96ColumbusJones97EdgecombeColumbus98BladenHalifax99SwainNorthampton  | 71   | Greene                                  | Wilkes      |
| 74GastonCaswell75JonesBurke76WilsonCherokee77LenoirStanly78CherokeeMcDowell79NashCleveland80MitchellScotland81WashingtonRowan82RockinghamStokes83PersonAnson84RutherfordBertie85NorthamptonLenoir86GrahamAlleghany87RichmondRobeson88HertfordChowan89AnsonVance90WarrenRichmond91ScotlandMitchell92MartinEdgecombe93HalifaxGates94VanceHertford95BertieBladen96ColumbusJones97EdgecombeColumbus98BladenHalifax99SwainNorthampton   | 72   | Cleveland                               | Rutherford  |
| 75 Jones Burke 76 Wilson Cherokee 77 Lenoir Stanly 78 Cherokee McDowell 79 Nash Cleveland 80 Mitchell Scotland 81 Washington Rowan 82 Rockingham Stokes 83 Person Anson 84 Rutherford Bertie 85 Northampton Lenoir 86 Graham Alleghany 87 Richmond Robeson 88 Hertford Chowan 89 Anson Vance 90 Warren Richmond 91 Scotland Mitchell 92 Martin Edgecombe 93 Halifax Gates 94 Vance Hertford 95 Bertie Bladen 96 Columbus Jones 97 Edgecombe Columbus 98 Bladen Halifax   | 73   | Sampson                                 | Washington  |
| 76 Wilson Cherokee 77 Lenoir Stanly 78 Cherokee McDowell 79 Nash Cleveland 80 Mitchell Scotland 81 Washington Rowan 82 Rockingham Stokes 83 Person Anson 84 Rutherford Bertie 85 Northampton Lenoir 86 Graham Alleghany 87 Richmond Robeson 88 Hertford Chowan 89 Anson Vance 90 Warren Richmond 91 Scotland Mitchell 92 Martin Edgecombe 93 Halifax Gates 94 Vance Hertford 95 Bertie Bladen 96 Columbus Jones 97 Edgecombe Columbus 98 Bladen Halifax  | 74   | Gaston                                  | Caswell     |
| 77 Lenoir Stanly 78 Cherokee McDowell 79 Nash Cleveland 80 Mitchell Scotland 81 Washington Rowan 82 Rockingham Stokes 83 Person Anson 84 Rutherford Bertie 85 Northampton Lenoir 86 Graham Alleghany 87 Richmond Robeson 88 Hertford Chowan 89 Anson Vance 90 Warren Richmond 91 Scotland Mitchell 92 Martin Edgecombe 93 Halifax Gates 94 Vance Hertford 95 Bertie Bladen 96 Columbus Jones 97 Edgecombe Columbus 98 Bladen Halifax   | 75   | Jones                                   | Burke       |
| 78 Cherokee McDowell 79 Nash Cleveland 80 Mitchell Scotland 81 Washington Rowan 82 Rockingham Stokes 83 Person Anson 84 Rutherford Bertie 85 Northampton Lenoir 86 Graham Alleghany 87 Richmond Robeson 88 Hertford Chowan 99 Warren Richmond 91 Scotland Mitchell 92 Martin Edgecombe 93 Halifax Gates 94 Vance Hertford 95 Bertie Bladen 96 Columbus Jones 97 Edgecombe Columbus 98 Bladen Halifax   | 76   | Wilson                                  | Cherokee    |
| 79NashCleveland80MitchellScotland81WashingtonRowan82RockinghamStokes83PersonAnson84RutherfordBertie85NorthamptonLenoir86GrahamAlleghany87RichmondRobeson88HertfordChowan89AnsonVance90WarrenRichmond91ScotlandMitchell92MartinEdgecombe93HalifaxGates94VanceHertford95BertieBladen96ColumbusJones97EdgecombeColumbus98BladenHalifax99SwainNorthampton  | 77   | Lenoir                                  | Stanly      |
| 80 Mitchell Scotland 81 Washington Rowan 82 Rockingham Stokes 83 Person Anson 84 Rutherford Bertie 85 Northampton Lenoir 86 Graham Alleghany 87 Richmond Robeson 88 Hertford Chowan 89 Anson Vance 90 Warren Richmond 91 Scotland Mitchell 92 Martin Edgecombe 93 Halifax Gates 94 Vance Hertford 95 Bertie Bladen 96 Columbus Jones 97 Edgecombe Columbus 98 Bladen Halifax   | 78   | Cherokee                                | McDowell    |
| 81 Washington Rowan 82 Rockingham Stokes 83 Person Anson 84 Rutherford Bertie 85 Northampton Lenoir 86 Graham Alleghany 87 Richmond Robeson 88 Hertford Chowan 89 Anson Vance 90 Warren Richmond 91 Scotland Mitchell 92 Martin Edgecombe 93 Halifax Gates 94 Vance Hertford 95 Bertie Bladen 96 Columbus Jones 97 Edgecombe Columbus 98 Bladen Halifax 99 Swain Northampton   | 79   | Nash                                    | Cleveland   |
| 82RockinghamStokes83PersonAnson84RutherfordBertie85NorthamptonLenoir86GrahamAlleghany87RichmondRobeson88HertfordChowan89AnsonVance90WarrenRichmond91ScotlandMitchell92MartinEdgecombe93HalifaxGates94VanceHertford95BertieBladen96ColumbusJones97EdgecombeColumbus98BladenHalifax99SwainNorthampton  | 80   | Mitchell                                | Scotland    |
| 83PersonAnson84RutherfordBertie85NorthamptonLenoir86GrahamAlleghany87RichmondRobeson88HertfordChowan89AnsonVance90WarrenRichmond91ScotlandMitchell92MartinEdgecombe93HalifaxGates94VanceHertford95BertieBladen96ColumbusJones97EdgecombeColumbus98BladenHalifax99SwainNorthampton  | 81   | Washington                              | Rowan       |
| 84RutherfordBertie85NorthamptonLenoir86GrahamAlleghany87RichmondRobeson88HertfordChowan89AnsonVance90WarrenRichmond91ScotlandMitchell92MartinEdgecombe93HalifaxGates94VanceHertford95BertieBladen96ColumbusJones97EdgecombeColumbus98BladenHalifax99SwainNorthampton   | 82   | Rockingham                              | Stokes      |
| 85 Northampton Lenoir 86 Graham Alleghany 87 Richmond Robeson 88 Hertford Chowan 89 Anson Vance 90 Warren Richmond 91 Scotland Mitchell 92 Martin Edgecombe 93 Halifax Gates 94 Vance Hertford 95 Bertie Bladen 96 Columbus Jones 97 Edgecombe Columbus 98 Bladen Halifax 99 Swain Northampton   | 83   | Person                                  | Anson       |
| 86 Graham Alleghany 87 Richmond Robeson 88 Hertford Chowan 89 Anson Vance 90 Warren Richmond 91 Scotland Mitchell 92 Martin Edgecombe 93 Halifax Gates 94 Vance Hertford 95 Bertie Bladen 96 Columbus Jones 97 Edgecombe Columbus 98 Bladen Halifax 99 Swain Northampton   | 84   | Rutherford                              | Bertie      |
| 87 Richmond Robeson 88 Hertford Chowan 89 Anson Vance 90 Warren Richmond 91 Scotland Mitchell 92 Martin Edgecombe 93 Halifax Gates 94 Vance Hertford 95 Bertie Bladen 96 Columbus Jones 97 Edgecombe Columbus 98 Bladen Halifax 99 Swain Northampton   | 85   | Northampton                             | Lenoir      |
| 88 Hertford Chowan 89 Anson Vance 90 Warren Richmond 91 Scotland Mitchell 92 Martin Edgecombe 93 Halifax Gates 94 Vance Hertford 95 Bertie Bladen 96 Columbus Jones 97 Edgecombe Columbus 98 Bladen Halifax 99 Swain Northampton   | 86   | Graham                                  | Alleghany   |
| 89 Anson Vance 90 Warren Richmond 91 Scotland Mitchell 92 Martin Edgecombe 93 Halifax Gates 94 Vance Hertford 95 Bertie Bladen 96 Columbus Jones 97 Edgecombe Columbus 98 Bladen Halifax 99 Swain Northampton  | 87   | Richmond                                | Robeson     |
| 90 Warren Richmond 91 Scotland Mitchell 92 Martin Edgecombe 93 Halifax Gates 94 Vance Hertford 95 Bertie Bladen 96 Columbus Jones 97 Edgecombe Columbus 98 Bladen Halifax 99 Swain Northampton   | 88   | Hertford                                | Chowan      |
| 91 Scotland Mitchell 92 Martin Edgecombe 93 Halifax Gates 94 Vance Hertford 95 Bertie Bladen 96 Columbus Jones 97 Edgecombe Columbus 98 Bladen Halifax 99 Swain Northampton  | 89   | Anson                                   | Vance       |
| 92 Martin Edgecombe 93 Halifax Gates 94 Vance Hertford 95 Bertie Bladen 96 Columbus Jones 97 Edgecombe Columbus 98 Bladen Halifax 99 Swain Northampton   | 90   | Warren                                  | Richmond    |
| 93 Halifax Gates 94 Vance Hertford 95 Bertie Bladen 96 Columbus Jones 97 Edgecombe Columbus 98 Bladen Halifax 99 Swain Northampton   | 91   | Scotland                                | Mitchell    |
| 94 Vance Hertford 95 Bertie Bladen 96 Columbus Jones 97 Edgecombe Columbus 98 Bladen Halifax 99 Swain Northampton  | 92   | Martin                                  | Edgecombe   |
| 95 Bertie Bladen 96 Columbus Jones 97 Edgecombe Columbus 98 Bladen Halifax 99 Swain Northampton  | 93   | Halifax                                 | Gates       |
| 96 Columbus Jones<br>97 Edgecombe Columbus<br>98 Bladen Halifax<br>99 Swain Northampton  | 94   | Vance                                   | Hertford    |
| 97 Edgecombe Columbus<br>98 Bladen Halifax<br>99 Swain Northampton   | 95   | Bertie                                  | Bladen      |
| 98 Bladen Halifax<br>99 Swain Northampton  | 96   | Columbus                                | Jones       |
| 98 Bladen Halifax<br>99 Swain Northampton  | 97   | Edgecombe                               | Columbus    |
| · ·  | 98   | -                                       | Halifax     |
|  | 99   | Swain                                   | Northampton |
|  | 100  | Robeson                                 |             |

# **Health Factors Rankings**

The summary health factors ranking is based on four factors: health behaviors, clinical care, social and economic, and physical environment factors. In turn, each of these factors is based on several measures. Health behaviors include measures of smoking, diet and exercise, alcohol use, and risky sex behavior. Clinical

care includes measures of access to care and quality of care. Social and economic factors include measures of education, employment, income, family and social support, and community safety. The physical environment includes measures of environmental quality and the built environment.

|      | Health       |      | Clinical     |      | Social & Economic |      | Physical    |
|------|--------------|------|--------------|------|-------------------|------|-------------|
| Rank | Behaviors    | Rank | Care         | Rank | Factors           | Rank | Environment |
| 1    | Orange       | 1    | Orange       | 1    | Orange            | 1    | Lee         |
| 2    | Yancey       | 2    | Durham       | 2    | Wake              | 2    | Lenoir      |
| 3    | Polk         | 3    | Buncombe     | 3    | Camden            | 3    | Dare        |
| 4    | Wake         | 4    | New Hanover  | 4    | Watauga           | 4    | Pasquotank  |
| 5    | Buncombe     | 5    | Pitt         | 5    | Currituck         | 5    | Perquimans  |
| 6    | Mecklenburg  | 6    | Chowan       | 6    | Union             | 6    | Rutherford  |
| 7    | Henderson    | 7    | Haywood      | 7    | Dare              | 7    | Swain       |
| 8    | Watauga      | 8    | Guilford     | 8    | Onslow            | 7    | Washington  |
| 9    | Union        | 9    | Transylvania | 9    | Carteret          | 9    | Hyde        |
| 10   | Transylvania | 10   | Moore        | 10   | Chatham           | 10   | Franklin    |
| 11   | Clay         | 11   | Wake         | 11   | New Hanover       | 11   | New Hanover |
| 12   | Macon        | 12   | Catawba      | 12   | Henderson         | 12   | Chatham     |
| 13   | Mitchell     | 13   | Forsyth      | 13   | Buncombe          | 13   | Caldwell    |
| 14   | Ashe         | 14   | Hertford     | 14   | Cabarrus          | 14   | Yadkin      |
| 15   | New Hanover  | 15   | Henderson    | 15   | Polk              | 15   | Stanly      |
| 16   | Forsyth      | 16   | Edgecombe    | 16   | Transylvania      | 16   | Person      |
| 17   | Durham       | 17   | Nash         | 17   | Iredell           | 17   | Polk        |
| 18   | Guilford     | 18   | Craven       | 18   | Moore             | 18   | Beaufort    |
| 19   | Moore        | 19   | Rutherford   | 19   | Davie             | 19   | Henderson   |
| 20   | Avery        | 20   | Macon        | 20   | Mecklenburg       | 20   | Cherokee    |
| 21   | Lincoln      | 21   | Halifax      | 21   | Durham            | 21   | Carteret    |
| 22   | Greene       | 22   | Caswell      | 22   | Haywood           | 21   | Pender      |
| 23   | Chatham      | 23   | Mecklenburg  | 23   | Jackson           | 23   | Clay        |
| 24   | Catawba      | 24   | McDowell     | 24   | Johnston          | 23   | Madison     |
| 25   | Cherokee     | 25   | Gaston       | 25   | Clay              | 25   | Alamance    |
| 26   | Iredell      | 26   | Beaufort     | 26   | Guilford          | 26   | Moore       |
| 27   | Camden       | 27   | Granville    | 27   | Pamlico           | 27   | Northampton |
| 28   | Alexander    | 28   | Alamance     | 28   | Forsyth           | 28   | Halifax     |
| 29   | Gates        | 29   | Cabarrus     | 29   | Gates             | 29   | Brunswick   |
| 30   | Cabarrus     | 30   | Cleveland    | 30   | Craven            | 29   | Robeson     |
| 31   | Alleghany    | 31   | Stanly       | 31   | Macon             | 31   | Orange      |
| 32   | Craven       | 32   | Vance        | 32   | Yadkin            | 32   | Onslow      |
| 33   | Haywood      | 33   | Burke        | 33   | Avery             | 33   | Avery       |
| 34   | Madison      | 34   | Jackson      | 34   | Cumberland        | 33   | Tyrrell     |
| 35   | Davie        | 35   | Caldwell     | 35   | Granville         | 35   | Burke       |
| 36   | Lee          | 36   | Cherokee     | 36   | Pender            | 36   | Craven      |
| 37   | Graham       | 37   | Madison      | 37   | Franklin          | 37   | Macon       |
| 38   | Martin       | 38   | Pamlico      | 38   | Pasquotank        | 38   | Randolph    |
| 39   | Brunswick    | 39   | Rowan        | 39   | Stokes            | 39   | Watauga     |
| 40   | Stanly       | 40   | Bladen       | 40   | Stanly            | 40   | Duplin      |
| 41   | Randolph     | 41   | Brunswick    | 41   | Harnett           | 41   | Buncombe    |
| 42   | Wilson       | 42   | Cumberland   | 42   | Lincoln           | 42   | Alexander   |
| 43   | Alamance     | 43   | Carteret     | 43   | Brunswick         | 43   | Hoke        |
| 44   | Gaston       | 44   | Surry        | 44   | Surry             | 44   | Wayne       |
| 45   | Duplin       | 45   | Columbus     | 45   | Yancey            | 45   | Harnett     |
|      |              |      |              |      |                   |      |             |

| Pank   Penaviors   Pank   Cardo   Pasquotank   46   Davidson   46   Pasquotank   46   Madison   46   Warren  |      | Health     |      | Clinical    |      | Social & Economic |      | Physical    |
|--|------|------------|------|-------------|------|-------------------|------|-------------|
| 47         Pitt         47         Union         47         Randolph         47         Rockingham           48         Jackson         48         Chatham         48         Catawba         48         Cleveland           49         Burke         49         Scotland         49         Wayne         49         Johnston           50         Rutheford         50         Polk         50         Alamance         50         Cabarrus           51         Catracte         51         Wilke         51         Surry         54         Sury         54         Bartie         54         Rowan         53         Iredell         55         Johnes         55         Northampton         55         Mitchell         55         Davide         56         Mitchell         56         Davide         56         Mitchell         57         Value         58         Carvalle         57         Union         57         Value         58         Alleghary         58  | Rank |            | Rank |             | Rank |                   | Rank | _           |
| 48         Jackson         48         Claveland         49         Wayne         49         Johnston           50         Rutherford         50         Polk         50         Alamance         50         Cabarrus           51         Carteret         51         Wilson         51         Hoke         51         Surry           52         Yacklin         52         Mitchell         52         Pergulmans         52         Sampson           53         Wilkes         53         Alexander         53         Pitt         53         Iredell           54         Surry         54         Bertle         54         Rowan         54         Mitchell           55         Jones         55         Northampton         55         Mitchell         55         Davide           56         McDowell         56         Person         56         Davidson         57         Union           57         Caldwell         57         Randolph         57         Union         59         Lincoln         59         Lincoln         59         Lincoln         59         Lincoln         50         Davidson         54         Person         56         Davidson<   | 46   | Davidson   | 46   | Pasquotank  | 46   | Madison           | 46   | Warren      |
| 49         Burke         49         Scotland         49         Wayne         49         Johnston           50         Rutherford         50         Polk         50         Alamance         50         Cabarrus           51         Carteret         51         Wilson         51         Hoke         51         Surry         52         Mitchell         52         Perguimans         52         Sampson           53         Wilkes         53         Alexander         53         Pitt         53         Iredell           54         Surry         54         Bertle         54         Rowan         54         Mitchell           56         McDowell         56         Clay         56         Person         55         Davide           66         McDowell         56         Clay         56         Person         55         Davide           57         Caldwell         57         Randolph         57         Jones         57         Union           58         Hyde         59         Granville         59         Lincoln         59         Hyde         59         Granville           61         Tyrrell         61         Pesaud  | 47   | Pitt       | 47   | Union       | 47   | Randolph          | 47   | Rockingham  |
| 50         Rutherlord         50         Polk         50         Alamance         50         Cabrarus           51         Carteret         51         Wilkon         51         Hoke         51         Surry           52         Yackin         52         Mitchell         52         Prequimans         52         Sampson           53         Wilkes         53         Alexander         53         Pitt         53         Iredell           54         Surry         54         Bertie         54         Rowan         54         Mitchell           55         Jones         55         Northampton         55         Mitchell         55         Davie           56         McDowell         56         Clay         56         Person         56         Davidson           57         Caldwell         57         Randolph         57         Junion         58         Forsyth           59         Cleveland         59         Lincoln         59         Hyde         59         Granville           60         Parnlico         60         Yance         60         Alexander         60         Durham           61         Tyrrelio   | 48   | Jackson    | 48   | Chatham     | 48   | Catawba           | 48   | Cleveland   |
| 51         Carteret         51         Wilson         51         Hoke         51         Surry           52         Yardkin         52         Mitchell         52         Perquimans         52         Sampson           53         Wilkes         53         Alexander         53         Pitt         53         Iredell           54         Surry         54         Bertie         54         Rowan         54         Mitchell           55         Jones         55         Northampton         55         Mitchell         55         Davidson           56         McDowell         56         Clay         56         Person         56         Davidson           57         Caldwell         57         Nanon         60         Nanon         60         Nanon         60         Nanon         60         Nanon         60         Davidson         61         Davidson         64         V   | 49   | Burke      | 49   | Scotland    | 49   | Wayne             | 49   | Johnston    |
| 52         Yackin         52         Mitchell         52         Perquimans         52         Sampson           53         Wilkes         53         Alexander         53         Pitt         53         Ircdell           54         Surry         54         Bertie         54         Rowan         54         Mitchell           55         Jones         55         Northampton         55         Mitchell         55         Davidson           56         McDowell         56         Clay         56         Person         56         Davidson           57         Caldwell         57         Randolph         57         Jones         57         Union           58         Hyde         58         Irecdell         58         Alleghany         58         Forsyth           60         Parmico         60         Vancey         60         Alexander         60         Durham           60         Parmico         61         Person         61         Bacutort         61         Parmillio           61         Parmico         60         Alexander         60         Durham           61         Tyrrell         61         Parmillio <td>50</td> <td>Rutherford</td> <td>50</td> <td>Polk</td> <td>50</td> <td>Alamance</td> <td>50</td> <td>Cabarrus</td> | 50   | Rutherford | 50   | Polk        | 50   | Alamance          | 50   | Cabarrus    |
| 53         Wilkes         53         Alexander         53         Pitt         53         Iredell           54         Surry         54         Bertie         54         Rowan         54         Mitchell           55         Jones         55         Norhampton         55         Mitchell         55         Davide           56         McDowell         56         Clay         56         Person         56         Davidson           57         Caldwell         57         Randolph         57         Union           58         Hyde         58         Forsyth         59         Granville           60         Parmilco         60         Yancey         60         Alexander         60         Durham           61         Tyrrell         61         Person         61         Bauder         60         Darvine         60         Parmilco         60         Vance         62         Rowan         62         Hartford         62         Rowan         62         Hartford         62         Wayne         62         Swain         62         Hartford         62         Ascander         63         Asoce         Caswell         62         Hartford   | 51   | Carteret   | 51   | Wilson      | 51   | Hoke              | 51   | Surry       |
| 54         Surry         54         Bertie         54         Rowan         54         Mitchell           55         Jones         55         Northampton         55         Mitchell         55         Davie           56         McDowell         56         Clay         56         Person         56         Davies           57         Caldwell         57         Randolph         57         Jones         57         Union           58         Hyde         59         Bleadord         59         Lincoln         59         Hyde         59         Granville           60         Pamilco         60         Vancey         60         Alexander         60         Durham           61         Tyrrell         61         Person         61         Beaufort         61         Pamilico           62         Richmond         62         Wayne         62         Swain         62         Herritord           63         Anson         63         Davie         63         Burke         63         Caswell           64         Chown         64         Wainger         65         Washington         66         Gaston         66         Gasto  | 52   | Yadkin     | 52   | Mitchell    | 52   | Perquimans        | 52   | Sampson     |
| 55         Jones         55         Northampton         55         Mitchell         55         Davie           56         McDowell         56         Clay         56         Person         56         Davidson           57         Caldwell         57         Randolph         57         Jones         57         Union           58         Hyde         58         Ireadle         58         Alleghany         58         Forsyth           59         Cieveland         59         Lincoln         59         Hyde         59         Graville           60         Parmico         60         Yancey         60         Alexander         60         Durham           61         Parmico         60         Yancey         61         Beaufort         61         Parmico           61         Rannon         63         Davie         63         Burnico         62         Hentror           61         Ranson         63         Davie         63         Burnico         62         Hentror           64         Chowan         64         Washington         65         Ashe         65         Jance           65         Washington <t< td=""><td>53</td><td>Wilkes</td><td>53</td><td>Alexander</td><td>53</td><td>Pitt</td><td>53</td><td>Iredell</td></t<>         | 53   | Wilkes     | 53   | Alexander   | 53   | Pitt              | 53   | Iredell     |
| 56         McDowell         56         Clay         56         Person         56         Davidson           57         Caldwell         57         Annobyh         57         Jones         57         Union           58         Hyde         58         Iredell         58         Alleghany         58         Forsyth           59         Cleveland         59         Lincoln         59         Hyde         59         Granville           60         Pamlico         60         Yancey         60         Alexander         60         Durham           61         Tyrrell         61         Person         61         Beaufort         61         Durham           61         Tyrrell         61         Person         61         Beaufort         61         Durham           62         Richmond         62         Wayne         62         Swain         62         Hertford           63         Anson         65         Davile         63         Burke         63         Jones           65         Washington         65         Ashe         65         Jones         65           67         Nash         67         Lee   | 54   | Surry      | 54   | Bertie      | 54   | Rowan             | 54   | Mitchell    |
| 57         Caldwell         57         Randolph         57         Jones         57         Union           58         Hyde         58         Iredell         58         Alleghany         58         Forsyth           59         Cleveland         59         Lincoln         59         Hyde         59         Gramville           60         Pamlico         60         Yancey         60         Alexander         60         Durham           61         Tyrrell         61         Peamlico         60         Durham           61         Tyrrell         61         Peamlico         60         Durham           62         Richmond         62         Warshington         63         Burke         63         Caswell           63         Anson         63         Davidson         64         Vance         65         Washington         65         Mash         65         Jones         66         Gaston         66         Gaston         66         Gaston         66         Gaston         66         Gaston         66         Gaston         67         Currituck         67         Currituck         67         Currituck         68         Montgomery         6   | 55   | Jones      | 55   | Northampton | 55   | Mitchell          | 55   | Davie       |
| 58         Hyde         58         Iredell         58         Alleghany         58         Forsyth           59         Cleveland         59         Lincoln         59         Hyde         59         Granville           60         Pamilco         60         Yancey         60         Alexander         60         Durbam           61         Tyrrell         61         Person         61         Beaufort         61         Pamilico           61         Tyrrell         61         Person         61         Beaufort         61         Pamilico           62         Richmond         62         Wayne         62         Swain         62         Hertford           63         Anson         63         Davie         63         Burke         63         Caswell           64         Chowan         66         Dare         66         Gaston         66         Gaston           66         Rowan         66         Dare         67         McDowell         67         Currituck           68         Montgomery         68         Lenoir         70         Anson         70         Nash         70         Bertie         68         Trans  | 56   | McDowell   | 56   | Clay        | 56   | Person            | 56   | Davidson    |
| 59         Cleveland         59         Lincoln         59         Hyde         59         Granville           60         Pamilco         60         Yancey         60         Alexander         60         Durham           61         Tyrrell         61         Person         61         Beaufort         61         Pamilico           62         Richmond         62         Wayne         62         Swain         62         Hertford           63         Anson         63         Davie         63         Burke         63         Caswell           64         Chowan         64         Wilkles         64         Davidson         64         Vance           65         Wayne         65         Washington         65         Ashe         65         Jones           66         Rowan         66         Dare         66         Gaston         66         Gaston           67         Nash         67         Lee         67         McDowell         67         Currituck           68         Montgomery         68         Lenoir         68         Cherokee         68         Transylvania           69         Washington   | 57   | Caldwell   | 57   | •           | 57   |                   | 57   | Union       |
| 60         Pamilico         60         Yancey         60         Alexander         60         Durham           61         Tyrrell         61         Person         61         Beaufort         61         Pamilico           62         Richmond         62         Wayne         62         Swain         62         Hertford           63         Anson         63         Davie         63         Burke         63         Caswell           64         Chowan         64         Wilkes         64         Davidson         64         Vance           65         Wayne         65         Washington         65         Ashe         65         Jones           66         Rowan         66         Dare         66         Gaston         66         Gaston           67         Nash         67         Lee         67         McDowell         67         Currituck           68         Montgomery         68         Lenoir         68         Caldwell         69         Haywood           70         Perquimans         70         Anson         70         Nash         70         Bertie           71         Beaufort         71   | 58   | Hyde       | 58   | Iredell     | 58   | Alleghany         | 58   | Forsyth     |
| 61         Tyrrell         61         Person         61         Beaufort         61         Pamilico           62         Richmond         62         Wayne         62         Swain         62         Hertford           63         Anson         63         Davie         63         Burke         63         Caswell           64         Chowan         64         Wilkes         64         Davidson         64         Vance           65         Wayne         65         Washington         65         Ashe         65         Jones           66         Rowan         66         Dare         66         Gaston         66         Gaston           67         Nash         67         Lee         67         McDowell         67         Currituck           68         Montgomery         68         Lenoir         68         Cherokee         68         Transylvania           69         Washington         69         Watauga         69         Caldwell         69         Haywood           70         Person         71         Anson         70         Nash         70         Bertie           71         Person         71   | 59   |            | 59   | Lincoln     | 59   | Hyde              | 59   | Granville   |
| 62         Ríchmond         62         Wayne         62         Swain         62         Hertford           63         Anson         63         Davie         63         Burke         63         Caswell           64         Chowan         64         Wilkes         64         Davidson         64         Vance           65         Wayne         65         Washington         65         Ashe         65         Jones           66         Rowan         66         Dare         66         Gaston         66         Gaston           67         Nash         67         Lee         67         McDowell         67         Currituck           68         Montgomery         68         Lenoir         68         Cherokee         68         Transylvania           69         Washington         69         Watauga         69         Caldwell         69         Haywood           70         Perquimans         70         Anson         70         Nash         70         Bertie           71         Begudrot         71         Perguimans         71         Wilkes         71         Columber         72         Ashe         72         Sam  | 60   | Pamlico    | 60   | Yancey      | 60   | Alexander         | 60   | Durham      |
| 63         Anson         63         Davie         63         Burke         63         Caswell           64         Chowan         64         Wilkes         64         Davidson         64         Vance           65         Wayne         65         Washington         65         Ashe         65         Jones           66         Rowan         66         Dare         66         Gaston         66         Gaston           67         Nash         67         Lee         67         McDowell         67         Currituck           68         Montgomery         68         Lenoir         68         Cherokee         68         Transylvania           69         Washington         69         Watauga         69         Caldwell         69         Haywood           70         Perquimans         70         Anson         70         Nash         70         Bestie           71         Perquimans         70         Anson         70         Nash         70         Bestie           71         Perquimans         71         Wilkes         71         Columbus           72         Lenoir         71         Marin         71 <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>   |      | •          |      |             |      |                   |      |             |
| 64         Chowan         64         Wilkes         64         Davidson         64         Vance           65         Wayne         65         Washington         65         Ashe         65         Jones           66         Rowan         66         Dare         66         Gaston         66         Gaston           67         Nash         67         Lee         67         McDowell         67         Currituck           68         Montgomery         68         Lenoir         68         Cherokee         68         Transylvania           69         Washington         69         Watauga         69         Caldwell         69         Haywood           70         Anson         70         Anson         70         Nash         70         Beerite           71         Perguimans         70         Anson         70         Nash         70         Berte           71         Perguimans         70         Anson         70         Nash         70         Berte         71         Columbus           71         Perguimans         70         Nash         73         Retrit         74         Martin         73         Retrit <td>62</td> <td>Richmond</td> <td>62</td> <td>Wayne</td> <td>62</td> <td>Swain</td> <td>62</td> <td></td>             | 62   | Richmond   | 62   | Wayne       | 62   | Swain             | 62   |             |
| 65         Wayne         65         Washington         65         Ashe         65         Jones           66         Rowan         66         Dare         66         Gaston         66         Gaston           67         Nash         67         Lee         67         McDowell         67         Currituck           68         Montgomery         68         Lenoir         68         Cherokee         68         Transylvania           69         Washington         69         Watauga         69         Caldwell         69         Haywood           70         Perquimans         70         Anson         70         Nash         70         Bertie           71         Beaufort         71         Perquimans         71         Wilkes         71         Columbus           72         Lenoir         72         Ashe         72         Sampson         72         Cumberland           73         Franklin         73         Davidson         73         Rockingham         73         Pitt           74         Darre         74         Montgomery         74         Herfford         74         Martin         74           75  |      | Anson      |      |             |      |                   |      |             |
| 66         Rowan         66         Dare         66         Gaston         66         Gaston           67         Nash         67         Lee         67         McDowell         67         Currituck           68         Montgomery         68         Lenoir         68         Cherokee         68         Transylvania           69         Washington         69         Watauga         69         Caldwell         69         Haywood           70         Perquimans         70         Anson         70         Nash         70         Bertle           71         Beaufort         71         Perquimans         71         Wilkes         71         Columbus           72         Lenoir         72         Ashe         72         Sampson         72         Cumberland           73         Franklin         73         Davidson         73         Rockingham         73         Pitt           74         Dare         74         Montgomery         74         Hertford         74         Martin           75         Jones         75         Duplin         75         Ashe           76         Granville         76         Hydre  | _    | Chowan     | -    | Wilkes      | _    |                   |      |             |
| 67         Nash         67         Lee         67         McDowell         67         Currituck           68         Montgomery         68         Lenoir         68         Cherokee         68         Transylvania           69         Washington         69         Watauga         69         Caldwell         69         Haywood           70         Perquimans         70         Anson         70         Nash         70         Bertie           71         Beaufort         71         Perquimans         71         Wilkes         71         Columbus           72         Lenoir         72         Ashe         72         Sampson         72         Cumberland           73         Franklin         73         Davidson         73         Rockingham         73         Pitt           74         Dare         74         Montgomery         74         Hertford         74         Martin         75         Duplin         75         Ashe           75         Harnett         75         Jones         75         Duplin         75         Ashe           76         Granville         76         Hyde         76         Lee         76   |      | •          |      | •           |      |                   |      |             |
| 68         Montgomery         68         Lenoir         68         Cherokee         68         Transylvania           69         Washington         69         Watauga         69         Caldwell         69         Haywood           70         Perquimans         70         Anson         70         Nash         70         Bertie           71         Beaufort         71         Perquimans         71         Wilkes         71         Columbus           72         Lenoir         72         Ashe         72         Sampson         72         Cumberland           73         Franklin         73         Davidson         73         Rockingham         73         Pitt           74         Dare         74         Montgomery         74         Hertford         74         Martin           75         Harnett         75         Jones         75         Duplin         75         Ashe           76         Granville         76         Hyde         76         Lee         76         Wilkes           77         Person         77         Pender         77         Martin         77         Wilson           78         Honder  |      |            |      |             |      |                   |      | 0.0.0       |
| 69         Washington         69         Watauga         69         Caldwell         69         Haywood           70         Perquimans         70         Anson         70         Nash         70         Bertie           71         Beaufort         71         Perquimans         71         Wilkes         71         Columbus           72         Lenoir         72         Ashe         72         Sampson         72         Cumberland           73         Franklin         73         Davidson         73         Rockingham         73         Pitt           74         Dare         74         Montgomery         74         Hertford         74         Martin           75         Harnett         75         Jones         75         Duplin         75         Ashe           76         Granville         76         Hyde         76         Lee         76         Wilkes           77         Person         77         Pender         77         Martin         77         Wilson           79         Cumberland         79         Martin         79         Greene         79         Bladen           80         Sampson <t< td=""><td></td><td></td><td>-</td><td></td><td>-</td><td></td><td></td><td></td></t<>   |      |            | -    |             | -    |                   |      |             |
| 70         Perquimans         70         Anson         70         Nash         70         Bertie           71         Beaufort         71         Perquimans         71         Wilkes         71         Columbus           72         Lenoir         72         Ashe         72         Sampson         72         Cumberland           73         Franklin         73         Davidson         73         Rockingham         73         Pitt           74         Dare         74         Montgomery         74         Hertford         74         Martin           75         Harnett         75         Jones         75         Duplin         75         Ashe           76         Granville         76         Hyde         76         Lee         76         Wilkes           77         Person         77         Pender         77         Martin         77         Wilson           78         Johnston         78         Franklin         78         Caswell         78         Yancey           79         Cumberland         79         Martin         79         Greene         79         Bladen           80         Sampson         8  |      | ,          |      |             |      |                   |      |             |
| 71         Beaufort         71         Perquimans         71         Wilkes         71         Columbus           72         Lenoir         72         Ashe         72         Sampson         72         Cumberland           73         Franklin         73         Davidson         73         Rockingham         73         Pitt           74         Dare         74         Montgomery         74         Hertford         74         Martin           75         Harnett         75         Jones         75         Duplin         75         Ashe           76         Granville         76         Hyde         76         Lee         76         Wilkes           77         Person         77         Pender         77         Martin         77         Wilson           78         Johnston         78         Franklin         78         Caswell         78         Yancey           79         Cumberland         79         Martin         79         Greene         79         Bladen           80         Sampson         80         Graham         80         Lenoir         80         Stokes           81         Pender         81  |      | •          |      | ŭ           |      |                   |      | •           |
| 72         Lenoir         72         Ashe         72         Sampson         72         Cumberland           73         Franklin         73         Davidson         73         Rockingham         73         Pitt           74         Dare         74         Montgomery         74         Hertford         74         Martin           75         Harnett         75         Jones         75         Duplin         75         Ashe           76         Granville         76         Hybde         76         Lee         76         Wilkes           77         Person         77         Pender         77         Martin         77         Wilson           78         Johnston         78         Franklin         78         Caswell         78         Yancey           79         Cumberland         79         Martin         79         Greene         79         Bladen           80         Sampson         80         Graham         80         Lenoir         80         Stokes           81         Pender         81         Rockingham         81         Waleghany         81         Alleghany           82         Sampson <t< td=""><td></td><td></td><td>-</td><td></td><td>_</td><td></td><td></td><td></td></t<>   |      |            | -    |             | _    |                   |      |             |
| 73         Franklin         73         Davidson         73         Rockingham         73         Pitt           74         Dare         74         Montgomery         74         Hertford         74         Martin           75         Harnett         75         Jones         75         Duplin         75         Ashe           76         Granville         76         Hyde         76         Lee         76         Wilkes           77         Person         77         Pender         77         Martin         77         Wilson           78         Johnston         78         Franklin         78         Caswell         78         Yancey           79         Cumberland         79         Martin         79         Greene         79         Bladen           80         Sampson         80         Graham         80         Lenoir         80         Stokes           81         Pender         81         Rockingham         81         Washington         81         Alleghany           82         Hoke         82         Sampson         82         Chowan         82         Chowan           82         Hoke         82 <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td>  |      |            |      | •           |      |                   |      |             |
| 74         Dare         74         Montgomery         74         Hertford         74         Martin           75         Harnett         75         Jones         75         Duplin         75         Ashe           76         Granville         76         Hyde         76         Lee         76         Wilkes           77         Person         77         Pender         77         Martin         77         Wilson           78         Johnston         78         Franklin         78         Caswell         78         Yancey           79         Cumberland         79         Martin         79         Greene         79         Bladen           80         Sampson         80         Graham         80         Lenoir         80         Stokes           81         Pender         81         Rockingham         81         Washington         81         Alleghany           82         Hoke         82         Sampson         82         Chowan         82         Chowan           83         Onslow         83         Robeson         83         Montgomery         83         Catawba           84         Hertford         8  |      |            |      |             |      | •                 |      |             |
| 75         Harnett         75         Jones         75         Duplin         75         Ashe           76         Granville         76         Hyde         76         Lee         76         Wilkes           77         Person         77         Pender         77         Martin         77         Wilson           78         Johnston         78         Franklin         78         Caswell         78         Yancey           79         Cumberland         79         Martin         79         Greene         79         Bladen           80         Sampson         80         Graham         80         Lenoir         80         Stokes           81         Pender         81         Rockingham         81         Washington         81         Alleghany           82         Hoke         82         Sampson         82         Chowan         82         Chowan           83         Onslow         83         Robeson         83         Montgomery         83         Catawba           84         Hertford         84         Richmond         84         Bertie         84         Richmond         85         Montgomery         86   |      |            |      |             |      |                   |      |             |
| 76         Granville         76         Hyde         76         Lee         76         Wilkes           77         Person         77         Pender         77         Martin         77         Wilson           78         Johnston         78         Franklin         78         Caswell         78         Yancey           79         Cumberland         79         Martin         79         Greene         79         Bladen           80         Sampson         80         Graham         80         Lenoir         80         Stokes           81         Pender         81         Rockingham         81         Washington         81         Alleghany           82         Hoke         82         Sampson         82         Chowan         82         Chowan           83         Onslow         83         Robeson         83         Montgomery         83         Catawba           84         Hertford         84         Richmond         84         Richmond         85         Montgomery         86         Pasquotank         86         Onslow         86         Cleveland         86         Nash           87         Bertie         87  |      |            |      |             |      |                   |      | 21 1        |
| 77         Person         77         Pender         77         Martin         77         Wilson           78         Johnston         78         Franklin         78         Caswell         78         Yancey           79         Cumberland         79         Martin         79         Greene         79         Bladen           80         Sampson         80         Graham         80         Lenoir         80         Stokes           81         Pender         81         Rockingham         81         Washington         81         Alleghany           82         Hoke         82         Sampson         82         Chowan         82         Chowan           83         Onslow         83         Robeson         83         Montgomery         83         Catawba           84         Hertford         84         Richmond         84         Bertie         84         Richmond         85         Montgomery         86         Pasquotank         86         Onslow         86         Cleveland         86         Nash         87         Scotland         86         Nash         87         Scotland         87         Scotland         88         Lincoln  |      |            |      |             |      | •                 |      |             |
| 78         Johnston         78         Franklin         78         Caswell         78         Yancey           79         Cumberland         79         Martin         79         Greene         79         Bladen           80         Sampson         80         Graham         80         Lenoir         80         Stokes           81         Pender         81         Rockingham         81         Washington         81         Alleghany           82         Hoke         82         Sampson         82         Chowan         82         Chowan           83         Onslow         83         Robeson         83         Montgomery         83         Catawba           84         Hertford         84         Richmond         84         Bertie         84         Richmond           85         Bladen         85         Johnston         85         Rutherford         85         Montgomery           86         Pasquotank         86         Onslow         86         Cleveland         86         Nash           87         Bettie         87         Stokes         87         Wilson         87         Scotland           80         Nort   |      |            | -    |             |      |                   |      |             |
| 79         Cumberland         79         Martin         79         Greene         79         Bladen           80         Sampson         80         Graham         80         Lenoir         80         Stokes           81         Pender         81         Rockingham         81         Washington         81         Alleghany           82         Hoke         82         Sampson         82         Chowan         82         Chowan           83         Onslow         83         Robeson         83         Montgomery         83         Catawba           84         Hertford         84         Richmond         84         Bertie         84         Richmond           85         Bladen         85         Johnston         85         Rutherford         85         Montgomery           86         Pasquotank         86         Onslow         86         Cleveland         86         Nash           87         Bertie         87         Stokes         87         Wilson         87         Scotland           88         Northampton         88         Richmond         88         Lincoln           89         Stokes         89         T   |      |            |      |             |      |                   |      |             |
| 80         Sampson         80         Graham         80         Lenoir         80         Stokes           81         Pender         81         Rockingham         81         Washington         81         Alleghany           82         Hoke         82         Sampson         82         Chowan         82         Chowan           83         Onslow         83         Robeson         83         Montgomery         83         Catawba           84         Hertford         84         Richmond         84         Bertie         84         Richmond           85         Bladen         85         Johnston         85         Rutherford         85         Montgomery           86         Pasquotank         86         Onslow         86         Cleveland         86         Nash           87         Bertie         87         Stokes         87         Wilson         87         Scotland           80         Northampton         88         Yadkin         88         Richmond         88         Lincoln           89         Stokes         89         Tyrrell         89         Northampton         89         McDowell           90         <   |      |            |      |             |      |                   |      |             |
| 81         Pender         81         Rockingham         81         Washington         81         Alleghany           82         Hoke         82         Sampson         82         Chowan         82         Chowan           83         Onslow         83         Robeson         83         Montgomery         83         Catawba           84         Hertford         84         Richmond         84         Bertie         84         Richmond           85         Bladen         85         Johnston         85         Rutherford         85         Montgomery           86         Pasquotank         86         Onslow         86         Cleveland         86         Nash           87         Bertie         87         Stokes         87         Wilson         87         Scotland           80         Northampton         88         Lincoln         88         Lincoln           89         Stokes         89         Tyrrell         89         Northampton         89         McDowell           90         Caswell         90         Warren         90         Bladen         90         Camden           91         Scotland         91  |      |            | -    |             |      |                   |      |             |
| 82         Hoke         82         Sampson         82         Chowan         82         Chowan           83         Onslow         83         Robeson         83         Montgomery         83         Catawba           84         Hertford         84         Richmond         84         Rective         84         Richmond           85         Bladen         85         Johnston         85         Rutherford         85         Montgomery           86         Pasquotank         86         Onslow         86         Cleveland         86         Nash           87         Bertie         87         Stokes         87         Wilson         87         Scotland           88         Northampton         88         Lincoln         88         Lincoln         88         Lincoln         88         Lincoln         89         McDowell         90         Caswell         90         Warren         90         Bladen         90         Camden         90         Camden         90         Camden         91         Warren         90         Gates         92         Volumbus         92         Wake         92         Wake         93         Jackson         94         Ha   |      |            |      |             |      |                   |      |             |
| 83         Onslow         83         Robeson         83         Montgomery         83         Catawba           84         Hertford         84         Richmond         84         Bertie         84         Richmond           85         Bladen         85         Johnston         85         Rutherford         85         Montgomery           86         Pasquotank         86         Onslow         86         Cleveland         86         Nash           87         Bertie         87         Stokes         87         Wilson         87         Scotland           88         Northampton         88         Lincoln         88         Lincoln           89         Stokes         89         Tyrrell         89         Northampton         89         McDowell           90         Caswell         90         Warren         90         Bladen         90         Camden           91         Scotland         91         Camden         91         Warren         90         Gates           92         Currituck         92         Hoke         92         Columbus         92         Wake           93         Warren         93         Graham   |      |            |      | _           |      | · ·               |      |             |
| 84         Hertford         84         Richmond         84         Bertie         84         Richmond           85         Bladen         85         Johnston         85         Rutherford         85         Montgomery           86         Pasquotank         86         Onslow         86         Cleveland         86         Nash           87         Bertie         87         Stokes         87         Wilson         87         Scotland           88         Northampton         88         Lincoln         88         Lincoln         88         Lincoln         89         McDowell         90         Camden         90         McDowell         90         Camden         90  |      |            |      |             |      |                   |      |             |
| 85         Bladen         85         Johnston         85         Rutherford         85         Montgomery           86         Pasquotank         86         Onslow         86         Cleveland         86         Nash           87         Bertie         87         Stokes         87         Wilson         87         Scotland           88         Northampton         88         Lincoln           89         Stokes         89         Tyrrell         89         Northampton         89         McDowell           90         Caswell         90         Warren         90         Bladen         90         Camden           91         Scotland         91         Camden         91         Warren         90         Gates           92         Currituck         92         Hoke         92         Columbus         92         Wake           93         Warren         93         Graham         93         Jackson           94         Columbus         94         Gates         94         Halifax         94         Guilford           95         Halifax         95         Alleghany         95         Tyrrell         95         Graham <td></td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td> <td></td>                                     |      |            |      |             |      | ,                 |      |             |
| 86         Pasquotank         86         Onslow         86         Cleveland         86         Nash           87         Bertie         87         Stokes         87         Wilson         87         Scotland           88         Northampton         88         Lincoln         88         Lincoln           89         Stokes         89         Tyrrell         89         Northampton         89         McDowell           90         Caswell         90         Warren         90         Bladen         90         Camden           91         Scotland         91         Camden         91         Warren         90         Gates           92         Currituck         92         Hoke         92         Columbus         92         Wake           93         Warren         93         Graham         93         Jackson           94         Columbus         94         Gates         94         Halifax         94         Guilford           95         Halifax         95         Alleghany         95         Tyrrell         95         Graham           96         Rockingham         96         Harnett         96         Scotland  |      |            |      |             |      |                   |      |             |
| 87         Bertie         87         Stokes         87         Wilson         87         Scotland           88         Northampton         88         Yadkin         88         Richmond         88         Lincoln           89         Stokes         89         Tyrrell         89         Northampton         89         McDowell           90         Caswell         90         Warren         90         Bladen         90         Camden           91         Scotland         91         Camden         91         Warren         90         Gates           92         Currituck         92         Hoke         92         Columbus         92         Wake           93         Warren         93         Graham         93         Jackson           94         Columbus         94         Gates         94         Halifax         94         Guilford           95         Halifax         95         Alleghany         95         Tyrrell         95         Graham           96         Rockingham         96         Harnett         96         Scotland         96         Anson           97         Vance         97         Duplin  |      |            |      |             |      |                   |      | 0 ,         |
| 88         Northampton         88         Yadkin         88         Richmond         88         Lincoln           89         Stokes         89         Tyrrell         89         Northampton         89         McDowell           90         Caswell         90         Warren         90         Camden           91         Scotland         91         Camden         91         Warren         90         Gates           92         Currituck         92         Hoke         92         Columbus         92         Wake           93         Warren         93         Currituck         93         Graham         93         Jackson           94         Columbus         94         Gates         94         Halifax         94         Guilford           95         Halifax         95         Alleghany         95         Tyrrell         95         Graham           96         Rockingham         96         Harnett         96         Scotland         96         Anson           97         Vance         97         Duplin         97         Vance         97         Greene           98         Swain         98         Greene   |      |            |      |             |      |                   |      |             |
| 89         Stokes         89         Tyrrell         89         Northampton         89         McDowell           90         Caswell         90         Warren         90         Bladen         90         Camden           91         Scotland         91         Camden         91         Warren         90         Gates           92         Currituck         92         Hoke         92         Columbus         92         Wake           93         Warren         93         Currituck         93         Graham         93         Jackson           94         Columbus         94         Gates         94         Halifax         94         Guilford           95         Halifax         95         Alleghany         95         Tyrrell         95         Graham           96         Rockingham         96         Harnett         96         Scotland         96         Anson           97         Vance         97         Duplin         97         Vance         97         Greene           98         Swain         98         Greene         98         Anson         98         Edgecombe           99         Edgecombe         <  |      |            |      |             |      |                   |      |             |
| 90         Caswell         90         Warren         90         Bladen         90         Camden           91         Scotland         91         Camden         91         Warren         90         Gates           92         Currituck         92         Hoke         92         Columbus         92         Wake           93         Warren         93         Currituck         93         Graham         93         Jackson           94         Columbus         94         Gates         94         Halifax         94         Guilford           95         Halifax         95         Alleghany         95         Tyrrell         95         Graham           96         Rockingham         96         Harnett         96         Scotland         96         Anson           97         Vance         97         Duplin         97         Vance         97         Greene           98         Swain         98         Greene         98         Anson         98         Edgecombe           99         Edgecombe         99         Mecklenburg   |      |            |      |             |      |                   |      |             |
| 91         Scotland         91         Camden         91         Warren         90         Gates           92         Currituck         92         Hoke         92         Columbus         92         Wake           93         Warren         93         Currituck         93         Graham         93         Jackson           94         Columbus         94         Gates         94         Halifax         94         Guilford           95         Halifax         95         Alleghany         95         Tyrrell         95         Graham           96         Rockingham         96         Harnett         96         Scotland         96         Anson           97         Vance         97         Duplin         97         Vance         97         Greene           98         Swain         98         Greene         98         Anson         98         Edgecombe           99         Edgecombe         99         Mecklenburg  |      |            |      | •           |      | •                 |      |             |
| 92         Currituck         92         Hoke         92         Columbus         92         Wake           93         Warren         93         Currituck         93         Graham         93         Jackson           94         Columbus         94         Gates         94         Halifax         94         Guilford           95         Halifax         95         Alleghany         95         Tyrrell         95         Graham           96         Rockingham         96         Harnett         96         Scotland         96         Anson           97         Vance         97         Duplin         97         Vance         97         Greene           98         Swain         98         Greene         98         Anson         98         Edgecombe           99         Edgecombe         99         Swain         99         Edgecombe         99         Mecklenburg   |      |            |      |             |      |                   |      |             |
| 93         Warren         93         Currituck         93         Graham         93         Jackson           94         Columbus         94         Gates         94         Halifax         94         Guilford           95         Halifax         95         Alleghany         95         Tyrrell         95         Graham           96         Rockingham         96         Harnett         96         Scotland         96         Anson           97         Vance         97         Duplin         97         Vance         97         Greene           98         Swain         98         Greene         98         Anson         98         Edgecombe           99         Edgecombe         99         Swain         99         Edgecombe         99         Mecklenburg  |      |            |      |             |      |                   |      |             |
| 94         Columbus         94         Gates         94         Halifax         94         Guilford           95         Halifax         95         Alleghany         95         Tyrrell         95         Graham           96         Rockingham         96         Harnett         96         Scotland         96         Anson           97         Vance         97         Duplin         97         Vance         97         Greene           98         Swain         98         Greene         98         Anson         98         Edgecombe           99         Edgecombe         99         Swain         99         Edgecombe         99         Mecklenburg  | 93   |            | 93   |             |      |                   | 93   | Jackson     |
| 96         Rockingham         96         Harnett         96         Scotland         96         Anson           97         Vance         97         Duplin         97         Vance         97         Greene           98         Swain         98         Greene         98         Anson         98         Edgecombe           99         Edgecombe         99         Swain         99         Edgecombe         99         Mecklenburg   | 94   | Columbus   | 94   | Gates       | 94   | Halifax           | 94   | Guilford    |
| 96         Rockingham         96         Harnett         96         Scotland         96         Anson           97         Vance         97         Duplin         97         Vance         97         Greene           98         Swain         98         Greene         98         Anson         98         Edgecombe           99         Edgecombe         99         Swain         99         Edgecombe         99         Mecklenburg   | 95   |            | 95   |             |      |                   | 95   |             |
| 97         Vance         97         Duplin         97         Vance         97         Greene           98         Swain         98         Greene         98         Anson         98         Edgecombe           99         Edgecombe         99         Swain         99         Edgecombe         99         Mecklenburg   | 96   | Rockingham | 96   |             | 96   | Scotland          | 96   | Anson       |
| 98Swain98Greene98Anson98Edgecombe99Edgecombe99Swain99Edgecombe99Mecklenburg  | 97   | Vance      | 97   | Duplin      | 97   | Vance             | 97   | Greene      |
| · ·  | 98   | Swain      | 98   | Greene      |      | Anson             | 98   | Edgecombe   |
| 100 Robeson 100 Avery 100 Robeson 100 Rowan  | 99   | Edgecombe  | 99   | Swain       | 99   | Edgecombe         | 99   | Mecklenburg |
| ·  | 100  | Robeson    | 100  | Avery       | 100  | Robeson           | 100  | Rowan       |

# 2011 County Health Rankings: Measures, Data Sources, and Years of Data

|                              | Measure                               | Data Source  | Years of Data |
|------------------------------|---------------------------------------|--|---------------|
| HEALTH OUTCOMES              |                                       |  |               |
| Mortality                    | Premature death                       | National Center for Health Statistics  | 2005-2007     |
| Morbidity                    | Poor or fair health                   | Behavioral Risk Factor Surveillance System   | 2003-2009     |
|                              | Poor physical health days             | Behavioral Risk Factor Surveillance System   | 2003-2009     |
|                              | Poor mental health days               | Behavioral Risk Factor Surveillance System   | 2003-2009     |
|                              | Low birthweight                       | National Center for Health Statistics  | 2001-2007     |
| HEALTH FACTORS               |                                       |  |               |
| HEALTH BEHAVIORS             |                                       |  |               |
| Tobacco                      | Adult smoking                         | Behavioral Risk Factor Surveillance System   | 2003-2009     |
| Diet and Exercise            | Adult obesity                         | National Center for Chronic Disease<br>Prevention and Health Promotion               | 2008          |
| Alcohol Use                  | Excessive drinking                    | Behavioral Risk Factor Surveillance System   | 2003-2009     |
|                              | Motor vehicle crash death rate        | National Center for Health Statistics  | 2001-2007     |
| High Risk Sexual<br>Behavior | Sexually transmitted infections       | National Center for Hepatitis, HIV, STD and TB Prevention                            | 2008          |
|                              | Teen birth rate                       | National Center for Health Statistics  | 2001-2007     |
| CLINICAL CARE                |                                       |  |               |
| Access to Care               | Uninsured adults                      | Small Area Health Insurance Estimates,<br>U.S. Census                                | 2007          |
|                              | Primary care providers                | Health Resources & Services<br>Administration  | 2008          |
| Quality of Care              | Preventable hospital stays            | Medicare/Dartmouth Institute   | 2006-2007     |
|                              | Diabetic screening                    | Medicare/Dartmouth Institute   | 2006-2007     |
|                              | Mammography screening                 | Medicare/Dartmouth Institute   | 2006-2007     |
| SOCIOECONOMIC FACTO          | RS                                    |  |               |
| Education                    | High school graduation                | National Center for Education Statistics <sup>1</sup>                                | 2006-2007     |
|                              | Some college                          | American Community Survey  | 2005-2009     |
| Employment                   | Unemployment                          | Bureau of Labor Statistics   | 2009          |
| Income                       | Children in poverty                   | Small Area Income and Poverty Estimates,<br>U.S. Census                              | 2008          |
| Family and Social<br>Support | Inadequate social support             | Behavioral Risk Factor Surveillance System   | 2005-2009     |
|                              | Single-parent households              | American Community Survey  | 2005-2009     |
| Community Safety             | Violent crime <sup>2</sup>            | Uniform Crime Reporting, Federal Bureau of Investigation                             | 2006-2008     |
| PHYSICAL ENVIRONMENT         | Γ                                     |  |               |
| Air Quality <sup>3</sup>     | Air pollution-particulate matter days | U.S. Environmental Protection Agency /<br>Centers for Disease Control and Prevention | 2006          |
|                              | Air pollution-ozone days              | U.S. Environmental Protection Agency /<br>Centers for Disease Control and Prevention | 2006          |
|                              |                                       | Centers for Disease Control and Frevention   |               |
| Built Environment            | Access to healthy foods               | Census Zip Code Business Patterns  | 2008          |

<sup>&</sup>lt;sup>1</sup> State data sources for KY, NH, NC, PA, SC, and UT (2008-2009).

<sup>&</sup>lt;sup>2</sup> Homicide rate (2001-2007) from National Center for Health Statistics for AK, AZ, AR, CO, CT, GA, ID, IN, IA, KS, KY, LA, MN, MS, MT, NE, NH, NM, NC, ND, OH, SD, UT, and WV. State data source for IL.

<sup>&</sup>lt;sup>3</sup> Not available for AK and HI.

#### **CREDITS**

### **Report Authors**

University of Wisconsin-Madison School of Medicine and Public Health Department of Population Health Sciences Population Health Institute

Bridget Booske, PhD, MHSA Jessica Athens, MS Patrick Remington, MD, MPH

This publication would not have been possible without the following contributions:

#### Technical Advisors

Amy Bernstein, ScD, Centers for Disease Control and Prevention Michele Bohm, MPH, Centers for Disease Control and Prevention

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University of Wisconsin Population Health Institute 610 Walnut St, #524, Madison, WI 53726 (608) 265-6370 / info@countyhealthrankings.org