

Raleigh-Durham Life Expectancy Methodology and Data Table

Methods

Population data were calculated using 2010 U.S. Census Bureau data. Death count data were obtained from the State Center for Health Statistics, Division of Public Health, North Carolina Department of Health and Human Services. The most recently available years of geocoded death data (2004 to 2013) were aggregated into 19 five-year age groups (see below) by decedent's residential zip code. The average number of deaths across the ten years was computed in order to match the single year of population data (2010) used. Life expectancy at birth was computed by entering these data into abridged life tables using the Chiang methodology.¹ Death and population counts for age groups with zero deaths were replaced with the corresponding county death

and population counts for that age group when the zip code was contained entirely within one county. For zip codes whose area was split equally between two counties, the average death and population counts in the two corresponding counties in that age group were used to replace zero counts. Replacement counts for zip codes crossing multiple counties but predominately contained within one county, were drawn from the corresponding death and population data for the predominant county. Life expectancy was not computed for zip codes with a) 10 or more age groups having zero death counts (over the entire 10 year period) or b) greater than 30% of the population in group quarters.

Age Groups

- <1 Year
- 1 to 4 Years
- 5 to 9 Years
- 10 to 14 Years
- 15 to 19 Years
- 20 to 24 Years
- 25 to 29 Years
- 30 to 34 Years
- 35 to 39 Years
- 40 to 44 Years
- 45 to 49 Years
- 50 to 54 Years
- 55 to 59 Years
- 60 to 64 Years
- 65 to 69 Years
- 70 to 74 Years
- 75 to 79 Years
- 80 to 84 Years
- 85 Years and Over

The following table contains the life expectancy values for all the Raleigh-Durham area zip codes that were part of this project. The final life expectancy map was based on the values in this table:

Zip Code	Life Expectancy at Birth	Zip Code (cont'd)	Life Expectancy at Birth (cont'd)
27503	80	27608	81
27510	80	27609	83
27511	82	27610	76
27513	83	27612	84
27514	82	27613	83
27516	82	27614	85
27517	Insufficient data	27615	84
27529	81	27616	81
27545	80	27617	88
27560	83	27695	Insufficient data
27587	81	27701	75
27591	78	27703	77
27601	75	27704	76
27603	80	27705	80
27604	80	27707	80
27605	78	27709	Insufficient data
27606	81	27712	81
27607	Insufficient data	27713	82

1. Chiang CL. The life table and its construction. In: Introduction to stochastic processes in biostatistics. New York: John Wiley & Sons; 1968: 189–214.

ABOUT THE CENTER

The Center on Society and Health is an academic research center that studies the connections between social factors and health.

FOR MORE INFORMATION

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