
2000 and 2010 Census Data in 2011 NC House and NC Senate District Boundaries

1) Obtain total population data from the Census SF1 for each NC tabulation block for 2000 and 2010 from the National Historical Geographic Information System.

2) Bridge 2000 Census data into 2010 Census geographies using the U.S. Census Bureau’s 2010 Block Relationship Files (Census 2000 tabulation census block to 2010 Census tabulation block).

3) Assign blocks to NC House districts according to the 2016 Contingent Congressional Plan – Corrected block assignment files.

4) Aggregate total population to US House districts.

2014 Population Estimates

U.S. House districts can cover multiple counties, or counties can contain multiple districts. The 2014 population was estimated using 2014 county population estimates from the U.S. Census Bureau and the share-of-growth method. In this method, the district’s proportion of each county’s growth between 2010 and 2014 is assumed to be proportional to its share of the county’s population growth between 2000 and 2010. For each district/county intersection, the 2014 population estimate was calculated as:

\[
PP_{pop2014} = PP_{pop2010} + \left( \frac{PP_{pop2010} - PP_{pop2000}}{CP_{pop2010} - CP_{pop2000}} \right) \times \left( CP_{pop2014} - CP_{pop2010} \right)
\]

In the above equation, PPpop refers to the population of each part of the district in a given county, and CPpop refers to the county population.

The total population estimates for each district for 2014 is equivalent to the sum of the estimates for all of the district’s individual district/county intersections.

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References
