

**UMass Donahue Institute Summary of
The U.S. Census Bureau's 2012 State-Level Population Estimates**

On December 20, 2012, the U.S. Census Bureau released population estimates for the nation, states, and Puerto Rico for July 1, 2012. According to the new release, the Massachusetts population has increased by 98,515 since April 1, 2010 to a new total of **6,646,144** persons, maintaining its rank as the 14th most populous state in the U.S. This 1.5% cumulative increase puts Massachusetts' growth at almost twice that of the Northeast average, and ranks it as the fastest growing state in the Northeast region, in terms of percentage growth, for the second year since 2010. At the national level, Massachusetts ranked 28th for percentage growth – up from 33rd in the 2010 to 2011 period – and 13th for numerical growth – up in rank from 20th last year. From April 1, 2010 to July 1, 2011 the Massachusetts population increased by 39,907; and from July 1, 2011 to July 1, 2012 it increased by 58,608.

The table below shows the cumulative numerical growth, percentage growth, and rankings for the United States, United States regions, and the Northeast states including Massachusetts since the 2010 Census. To see data for all U.S. states and Puerto Rico, link to the Census Bureau website at: <http://www.census.gov/popest/estimates.html>

| Cumulative Estimates of Resident Population Change for the United States, Regions, and Northeast States and State Rankings: April 1, 2010 to July 1, 2012 | | | | | | | | |
|--|------------------------------------|------------------|----------------------|------------|--|--------------|----------------------|-----------|
| Geographic Area | Population Estimates | | Change, 2010 to 2012 | | National Ranking of Regions and States | | | |
| | April 1, 2010 Estimates Base | July 1, 2012 | Number | Percent | Population Estimates | | Change, 2010 to 2012 | |
| | | | | | April 1, 2010 Estimates Base | July 1, 2012 | Number | Percent |
| United States | 308,747,508 | 313,914,040 | 5,166,532 | 1.7 | (X) | (X) | (X) | (X) |
| Northeast | 55,317,245 | 55,761,091 | 443,846 | 0.8 | 4 | 4 | 3 | 3 |
| Midwest | 66,927,489 | 67,316,297 | 388,808 | 0.6 | 3 | 3 | 4 | 4 |
| South | 114,557,147 | 117,257,221 | 2,700,074 | 2.4 | 1 | 1 | 1 | 1 |
| West | 71,945,627 | 73,579,431 | 1,633,804 | 2.3 | 2 | 2 | 2 | 2 |
| Connecticut | 3,574,097 | 3,590,347 | 16,250 | 0.5 | 29 | 29 | 42 | 43 |
| Maine | 1,328,361 | 1,329,192 | 831 | 0.1 | 41 | 41 | 48 | 48 |
| Massachusetts | 6,547,629 | 6,646,144 | 98,515 | 1.5 | 14 | 14 | 13 | 28 |
| New Hampshire | 1,316,469 | 1,320,718 | 4,249 | 0.3 | 42 | 42 | 46 | 45 |
| New Jersey | 8,791,898 | 8,864,590 | 72,692 | 0.8 | 11 | 11 | 17 | 37 |
| New York | 19,378,104 | 19,570,261 | 192,157 | 1.0 | 3 | 3 | 6 | 33 |
| Pennsylvania | 12,702,379 | 12,763,536 | 61,157 | 0.5 | 6 | 6 | 21 | 42 |
| Rhode Island | 1,052,567 | 1,050,292 | -2,275 | -0.2 | 43 | 43 | 51 | 51 |
| Vermont | 625,741 | 626,011 | 270 | - | 49 | 50 | 49 | 49 |

Dash (-) represents zero or rounds to zero. (X) Not applicable.

Note: The estimates are based on the 2010 Census and reflect changes to the April 1, 2010 population due to the Count Question Resolution program and geographic program revisions. See Geographic Terms and Definitions at <http://www.census.gov/popest/about/geo/terms.html> for Source: U.S. Census Bureau, Population Division Table 2. Cumulative Estimates of Resident Population Change for the United States, Regions, States, and Puerto Rico and Region and State Rankings: April 1, 2010 to July 1, 2012 (NST-EST2012-02). Release Date: December 2012

Massachusetts' cumulative population increase of 1.5% is now approaching the national average of 1.7%. Though still below the percentage growth experienced in the Southern and Western states of the U.S., which average 2.4% and 2.3%, Massachusetts outpaces the Midwestern region, which is growing at about 0.6%. This growth continues the trend seen over the last decade, where Southern and Western states' growth significantly outpaced the Northeast and the Midwest. It also continues an upward growth trend experienced by

Massachusetts toward the end of the last decade and starts to close the growth gap between Massachusetts other parts of the U.S.

In the last decade, from the July 1, 2000 estimate to the July 1, 2010 estimate, the average growth for Massachusetts was about 0.3% per year, with an average population increase of just 19,245 per year. From 2001 to 2004, Massachusetts' growth rates, along with the Northeast rates, were actually declining, and only turned around after 2005 due in part to a reversal of domestic out-migration. Starting in 2007, the Massachusetts growth percentage overtook the Northeast growth percentage, at 0.5% for Massachusetts over 0.3% for the Northeast for that year, and by an increasing percentage thereafter. For the 2011 to 2012 estimates period, Massachusetts has increased by 0.6% compared to a 0.3% for the Northeast region. The table below shows this single year of change from July 1, 2011 to July 1, 2012 for the United States, United States regions, and the Northeast states including Massachusetts.

| Estimates of Resident Population Change for the United States, Regions, and Northeast States, and Region and State Rankings: July 1, 2011 to July 1, 2012 | | | | | | | | |
|---|-------------------------------------|------------------|----------------------|------------|--|-----------|----------------------|-----------|
| Geographic Area | Population Estimates (as of July 1) | | Change, 2011 to 2012 | | National Ranking of Regions and States | | | |
| | 2011 | 2012 | Number | Percent | Population Estimates (as of July 1) | | Change, 2011 to 2012 | |
| | | | | | 2011 | 2012 | Number | Percent |
| United States | 311,587,816 | 313,914,040 | 2,326,224 | 0.7 | (X) | (X) | (X) | (X) |
| Northeast | 55,597,646 | 55,761,091 | 163,445 | 0.3 | 4 | 4 | 4 | 3 |
| Midwest | 67,145,089 | 67,316,297 | 171,208 | 0.3 | 3 | 3 | 3 | 4 |
| South | 116,022,230 | 117,257,221 | 1,234,991 | 1.1 | 1 | 1 | 1 | 1 |
| West | 72,822,851 | 73,579,431 | 756,580 | 1.0 | 2 | 2 | 2 | 2 |
| Connecticut | 3,586,717 | 3,590,347 | 3,630 | 0.1 | 29 | 29 | 45 | 45 |
| Maine | 1,328,544 | 1,329,192 | 648 | - | 41 | 41 | 48 | 47 |
| Massachusetts | 6,607,003 | 6,646,144 | 39,141 | 0.6 | 14 | 14 | 15 | 29 |
| New Hampshire | 1,317,807 | 1,320,718 | 2,911 | 0.2 | 42 | 42 | 47 | 41 |
| New Jersey | 8,834,773 | 8,864,590 | 29,817 | 0.3 | 11 | 11 | 20 | 34 |
| New York | 19,501,616 | 19,570,261 | 68,645 | 0.4 | 3 | 3 | 10 | 33 |
| Pennsylvania | 12,743,948 | 12,763,536 | 19,588 | 0.2 | 6 | 6 | 23 | 43 |
| Rhode Island | 1,050,646 | 1,050,292 | -354 | - | 43 | 43 | 50 | 50 |
| Vermont | 626,592 | 626,011 | -581 | -0.1 | 49 | 50 | 51 | 51 |

Dash (-) represents zero or rounds to zero. (X) Not applicable.

Note: The estimates are based on the 2010 Census and reflect changes to the April 1, 2010 population due to the Count Question Resolution program and geographic program revisions. See Geographic Terms and Definitions at <http://www.census.gov/popest/about/geo/terms.html> for a list of the

Source: U.S. Census Bureau, Population Division. Table 3. Estimates of Resident Population Change for the United States, Regions, States, and Puerto Rico and Region and State Rankings: July 1, 2011 to July 1, 2012 (NST-EST2012-03). Release Date: December 20, 2012

Components of Change

The U.S. Census Bureau produces revised estimates each year by applying updated components of change to the estimates 2010 base (April 1, 2010). The estimated numerical change occurring in these components since the 2010 estimate (July 1, 2010) are published by the U.S. Census Bureau as part of the 2012 estimates data. These components include the numbers of **births** and **deaths**, which together equal the **natural increase**, as well as **domestic migration** (migration to and from other states within the U.S.) and **international migration** (migration to and from other countries) which sum to the **net migration** component. A fifth component, the **group quarters population**, is factored into the estimates base for the previous year, but is not broken out as a separate number in this published release.

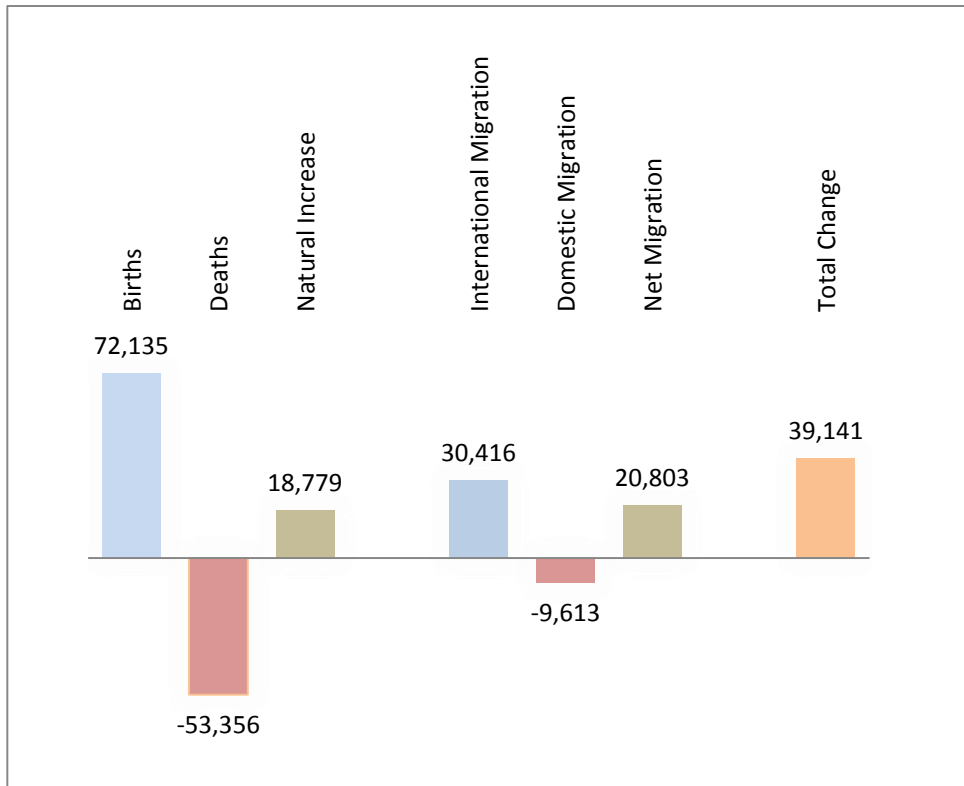
The table below shows the numerical estimates for the components of change for Massachusetts, along with the United States and U.S. regions for comparison. In it we see that Massachusetts experienced an estimated 72,135 births and 53,356 deaths during the estimates period, for a net natural increase of 18,779 (number of births less number of deaths.) At the same time, Massachusetts experienced a net outflow of 9,613 persons to other states in the U.S., and a net inflow of 30,416 persons from other countries, for a net migration total of 20,803.

| Estimates of the Components of Resident Population Change for the United States, Regions, and Massachusetts, July 1, 2011 to July 1, 2012 | | | | | | | |
|--|--------------------------------------|------------------|--------------|-----------|---------------|----------------------------|----------|
| Geographic Area | Total Population Change ¹ | Natural Increase | Vital Events | | Net Migration | | |
| | | | Births | Deaths | Total | International ² | Domestic |
| United States | 2,326,224 | 1,440,420 | 3,953,593 | 2,513,173 | 885,804 | 885,804 | (X) |
| Northeast | 163,445 | 164,991 | 631,961 | 466,970 | 578 | 221,546 | -220,968 |
| Midwest | 171,208 | 245,058 | 825,776 | 580,718 | -73,328 | 111,790 | -185,118 |
| South | 1,234,991 | 539,724 | 1,510,568 | 970,844 | 691,648 | 337,769 | 353,879 |
| West | 756,580 | 490,647 | 985,288 | 494,641 | 266,906 | 214,699 | 52,207 |
| Massachusetts | 39,141 | 18,779 | 72,135 | 53,356 | 20,803 | 30,416 | -9,613 |
| (X) Not applicable. | | | | | | | |
| ¹ Total population change includes a residual. This residual represents the change in population that cannot be attributed to any specific demographic component. See Population Estimates Terms and Definitions at http://www.census.gov/popest/about/terms.html . | | | | | | | |
| ² Net international migration for the United States, regions, and states includes the international migration of both native and foreign-born populations. Specifically, it includes: (a) the net international migration of the foreign born, (b) the net migration between the United States and Puerto Rico, (c) the net migration of natives to and from the United States, and (d) the net movement of the Armed Forces population between the United States and overseas. Net international migration for Puerto Rico includes only the international migration of native and foreign-born populations between the United States and Puerto Rico. | | | | | | | |
| Source: U.S. Census Bureau. Table 5. Estimates of the Components of Resident Population Change for the United States, Regions, States, and Puerto Rico: July 1, 2011 to July 1, 2012 (NST-EST2012-05). Release Date: December 20, 2012. | | | | | | | |

In the last part of the last decade - in the estimates year 2009 - Massachusetts saw a reversal in net domestic migration from a negative (more people leaving Massachusetts to other parts of the U.S.) to a positive (more people coming into Massachusetts from other parts of the U.S.). Domestic out-migration from Massachusetts peaked in the middle of the last decade with an estimated net outflow of 55,077 persons leaving Massachusetts for other parts of the United States in 2005. This outflow was reduced significantly in 2007 (by 37%) and again in 2008 (by 63%), and then finally reversed to a positive in-flow in 2009, with an estimated 3,614 net persons moving into Massachusetts from other U.S. states.

The 2012 estimates data shows that, once again, more people within the U.S. are leaving Massachusetts than moving into it (9,613). However this net outflow is still well below the peak in 2005 of 55,077 net persons leaving and comparable to the 2011 estimate of 8,299 net outflow. Finally, as is typical for Massachusetts, the international migration component of persons moving into the state from other countries, 30,416 in this period, offsets the negative domestic out-migration, for a positive net migration total of 20,803 persons into Massachusetts.

The following chart displays both the natural increase and the net migration components for Massachusetts from July 1, 2011 to July 1, 2012. It shows that the number of births in Massachusetts in 2012 was greater than the number of deaths, leading to a positive net *natural increase*. At the same time, a positive international migration number offsets a negative domestic migration number to sum to an increase in the *net migration*. The balance of change unaccounted for within these components (17,457) is attributed to changes in the group quarters population component and to residuals which are not broken-out as published data in this release.



UMass Donahue Institute. Source Data: U.S. Census Bureau. Table 5. Estimates of the Components of Resident Population Change for the United States, Regions, States, and Puerto Rico: July 1, 2011 to July 1, 2012 (NST-EST2012-05). Release Date: December 20, 2012.

Rates of the Components of Change

Another way to look at this information is to consider the rate of each change component, with rates being calculated per 1,000 average population. The table below shows the rate of each change component for the United States, U.S. Regions, and the Northeast States including Massachusetts for comparative purposes. It indicates that for Massachusetts, births are occurring at a lower rate (10.9) than in the United States as a whole (12.6) as well as all of its regions averages. Deaths in Massachusetts are occurring at a lower rate (8.1) than other regions of the U.S. except the West (6.8), and just slightly above the overall U.S. rate (8.0). Combined, these vital events lead to a natural increase rate (2.8) that is below that of the U.S. as a whole (4.6) and all of its regions. Within the migration component, we see that the Northeast and Midwest regions have the highest rates of domestic out-migration (-4.0 and -2.8) while the Southern and Western regions have positive domestic migration (3.0 and 0.7). Massachusetts' outmigration rate of -1.5 is less than that of the Northwest and Northeast regional averages (-4.0 and -2.8), but still indicates a domestic outmigration to Southern and Western states. On the other hand, the international migration rate for Massachusetts at 4.6 is higher than the U.S. as a whole (2.8) as well as all of its distinct regions.

These rates continue to a large degree the component trends of the last decade. From 2000 to 2010, two areas of the United States - the South and the West - showed positive internal migration for the whole decade, meaning that a net influx of persons from other states in the Northeast and Midwest added to their population over those years.

| Estimates of the Annual Rates of the Components of Resident Population Change for the United States, Regions, States, and Puerto Rico: July 1, 2011 to July 1, 2012 | | | | | | | |
|---|--------------------------------------|-------------------------------|---------------------------|------------|----------------------------|----------------------------|-------------|
| Geographic Area | Total Population Change ¹ | Natural Increase ² | Vital Events ² | | Net Migration ² | | |
| | | | Births | Deaths | Total | International ³ | Domestic |
| United States | 7.4 | 4.6 | 12.6 | 8.0 | 2.8 | 2.8 | (X) |
| Northeast | 2.9 | 3.0 | 11.4 | 8.4 | - | 4.0 | -4.0 |
| Midwest | 2.5 | 3.6 | 12.3 | 8.6 | -1.1 | 1.7 | -2.8 |
| South | 10.6 | 4.6 | 13.0 | 8.3 | 5.9 | 2.9 | 3.0 |
| West | 10.3 | 6.7 | 13.5 | 6.8 | 3.6 | 2.9 | 0.7 |
| Connecticut | 1.0 | 2.1 | 10.2 | 8.1 | -1.0 | 4.4 | -5.4 |
| Maine | 0.5 | -0.1 | 9.6 | 9.7 | 0.6 | 0.8 | -0.2 |
| Massachusetts | 5.9 | 2.8 | 10.9 | 8.1 | 3.1 | 4.6 | -1.5 |
| New Hampshire | 2.2 | 1.6 | 9.5 | 7.9 | 0.7 | 1.4 | -0.7 |
| New Jersey | 3.4 | 3.7 | 11.6 | 7.9 | -0.3 | 5.3 | -5.6 |
| New York | 3.5 | 4.5 | 12.2 | 7.7 | -1.0 | 5.0 | -5.9 |
| Pennsylvania | 1.5 | 1.1 | 11.1 | 10.0 | 0.5 | 2.0 | -1.5 |
| Rhode Island | -0.3 | 1.4 | 10.2 | 8.8 | -1.7 | 3.4 | -5.1 |
| Vermont | -0.9 | 0.9 | 9.2 | 8.3 | -1.8 | 1.0 | -2.8 |

Dash (-) represents zero or rounds to zero. (X) Not applicable.

¹ Total population change includes a residual. This residual represents the change in population that cannot be attributed to any specific demographic component. See Population Estimates Terms and Definitions at <http://www.census.gov/popest/about/terms.html>.

² Rates per 1,000 average population.

³ Net international migration for the United States, regions, and states includes the international migration of both native and foreign-born populations. Specifically, it includes: (a) the net international migration of the foreign born, (b) the net migration between the United States and Puerto Rico, (c) the net migration of natives to and from the United States, and (d) the net movement of the Armed Forces population between the United States and overseas. Net international migration for Puerto Rico includes only the international migration of native and foreign-born populations between the United States and Puerto Rico.

Note: See Geographic Terms and Definitions at <http://www.census.gov/popest/about/geo/terms.html> for a list of the states that are included in each region.

Source: U.S. Census Bureau, Population Division. Table 6. Estimates of the Annual Rates of the Components of Resident Population Change for the United States, Regions, States, and Puerto Rico: July 1, 2011 to July 1, 2012 (NST-EST2012-06). Release Date: December 20, 2012

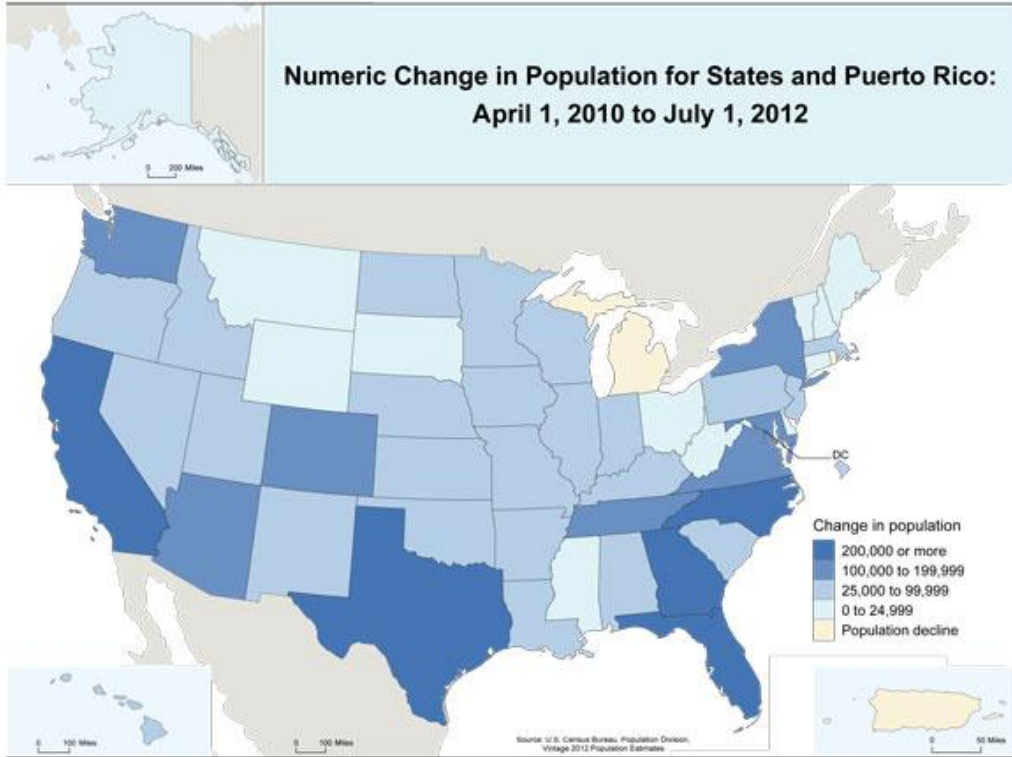
Mapping Population Change

The U.S. Census Bureau has created a number of maps to display the data included in its latest population estimates release. The maps on the following pages show the estimated population change for the cumulative period of April 1, 2010 through July 1, 2012 for all U.S. States by numerical change and by percentage change as well as the single year change estimates from July 1, 2011 to July 1, 2012. We also include here links to the original maps on the Census Bureau's website.

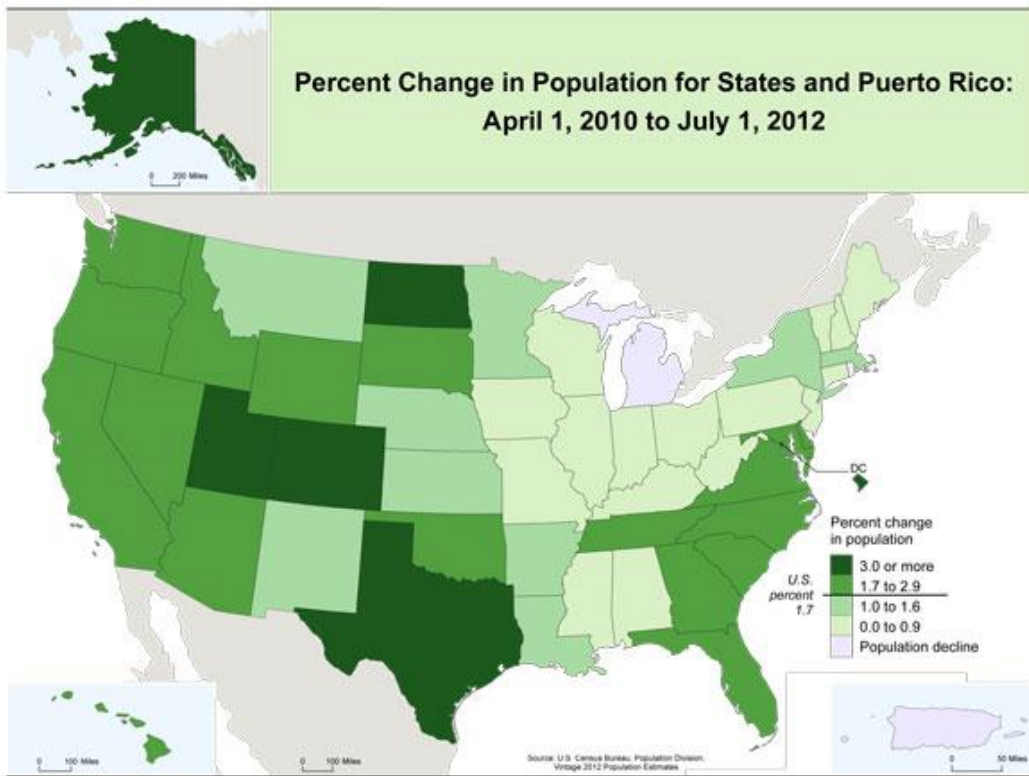
Additional Information and estimates data can be found on the U.S. Census Bureau's website at <http://www.census.gov/popest/data/index.html>.

Additional UMass Donahue Institute Massachusetts summaries of U.S. Census Bureau releases can be accessed at <http://www.massbenchmarks.org/statedata/news.htm> and appear in chronological order.

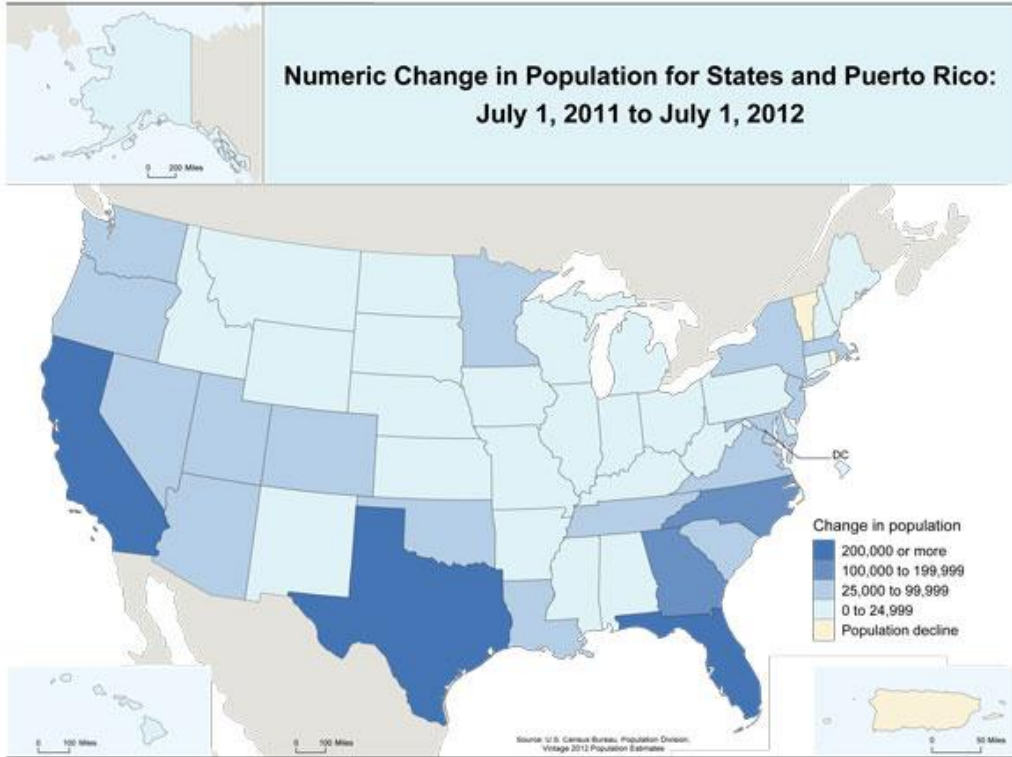
Summary prepared by:
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 December 26, 2012



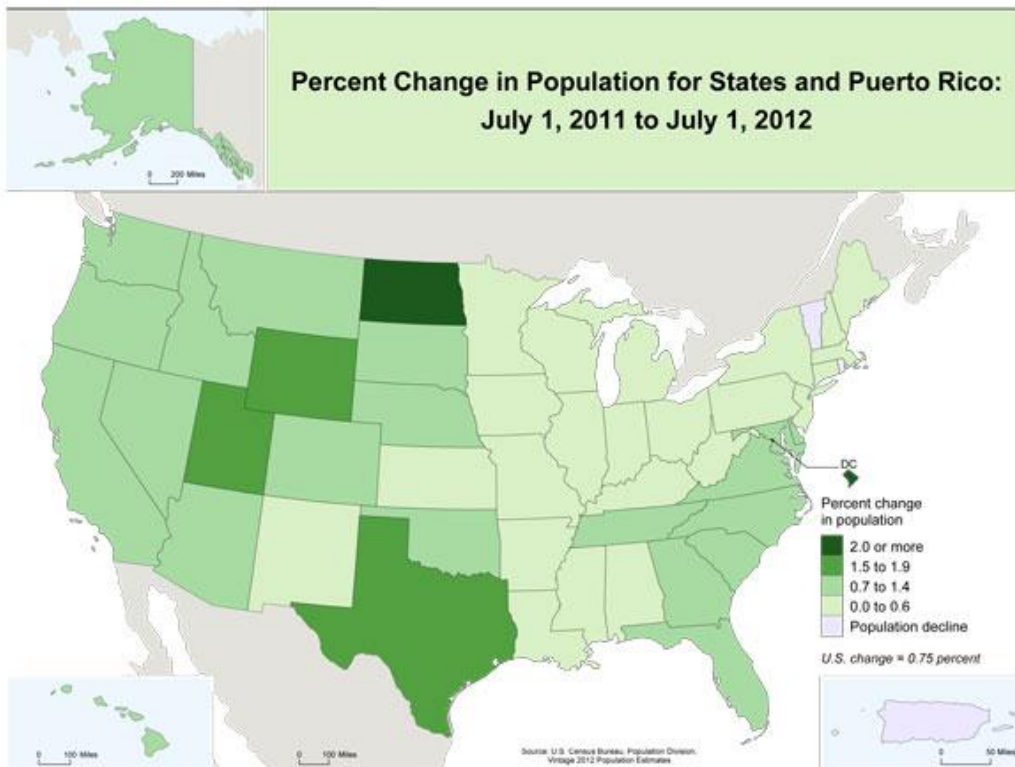
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<https://www.census.gov/popest/data/maps/2012/perchg-2011-2012.html>