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## STATE ENTREPRENEURSHIP INDEX

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**U**nemployment rates and job growth are popular measures for state economies. However, these trends may differ from the state's performance in core measures of underlying economic strength such as entrepreneurship, net migration and capital formation. Given this, the University of Nebraska - Lincoln Bureau of Business Research seeks to track these core economic measures in Nebraska and in all U.S. states.

The State Entrepreneurship Index is one effort to track these core trends. Specifically, the index is used to track entrepreneurship in all 50 states. The index was initially developed by Eric C. Thompson and William B. Walstad in *Entrepreneurship in Nebraska: Conditions, Attitudes, and Actions* (Gallup Press, 2008). In the current study, we use that methodological approach to and calculate the value of the state entrepreneurship index for 2011 and 2012.

The index is composed of 5 components that consider the income of entrepreneurs, business formation rates, technological innovation, and growth in the number of entrepreneurs.

The five components of the State Entrepreneurship Index are:

- Percent growth in employer establishments
- Percent growth in employer establishments per person

- Business formation rate (*i.e.*, establishment births per person)
- Patents per thousand persons
- Average income per non-farm proprietor

A separate index value is calculated for each of the 5 components. Each component index reflects how much each state's performance deviates from the median state. The state at the median gets a value of 1.0. A state with a value one standard deviation above the median gets a value of 2.0, while a state one standard deviation below the median gets a value of 0.0. The overall entrepreneurship index is calculated by taking a simple average of the five component index values for each state.

The data utilized to calculate values for each of the 5 index components are presented in Table A.1 through A.5 in the appendix. Data are present from 2005 through 2012. Appendix A.6 provides a history of State Entrepreneurship Index values. Analysis in the main text focuses on the two most recent years, 2011 and 2012.

Note that historic values for the State Entrepreneurship Index in 2011 and earlier years may differ due to periodic revisions in the underlying data by the U.S. Department of Labor, the U.S. Department of Commerce, and the U.S. Patent and Trademark Office. Values also may differ because beginning with this edition of the index we now exclude private

household establishments from our estimate of employer establishments. State's treatment of home health aides and other home service providers differs widely in the employer data. Removing establishments classified in this industry improves the consistency of employer establishment data both across states and across years within individual states.

Table 1 illustrates component index values for all 50 states for the year 2012. The Table also shows the overall index value. Data on the number of employer establishments comes from the establishment counts in the Quarterly Census of Employment and Wages developed by the U.S. Bureau of Labor Statistics within the U.S. Department of Labor. The counts include all establishments that participate in their state unemployment insurance program. Data on the population of states, which is used in all per person measures, is from the U.S. Census based on estimated population on July 1, 2012. Data on firm births is from the Business Employment Dynamics database, also developed by the U.S. Bureau of Labor Statistics. Data on patents is collected by the U.S. Patent and Trademark Office. Data on non-farm proprietor income and proprietor counts for each U.S. state is from the Regional Economic Information System of the Bureau of Economic Analysis, which is part of the United States Department of Commerce.

Table 1 shows the ranking for all 50 states both for the state entrepreneurship index overall and for each of the 5 index components. The highest ranked states in the 2012 State Entrepreneurship Index are concentrated in the northern parts of the country. The five highest ranked states are North Dakota, New York, New Hampshire, Minnesota, and Oregon. We note that California, Connecticut, Texas, Pennsylvania, and Colorado also are among the Top 10. Texas is the only Southern state ranked in the Top 10. Its high rank in the State Entrepreneurship Index is consistent with its strong performance on other major indicators such as population and job growth.

North Dakota is the highest ranked state due to entrepreneurial activity related to the energy

boom in the state, in particular a high business formation rate and rapid growth in employer establishments. Other high ranked states tend to rank above the median state (index value greater than 1.0) for all or nearly all of the 5 index components. New York, the second ranked state, was above the median for all 5 components and well above the median for average income per non-farm proprietor. Third ranked New Hampshire also had above-median values for all 5 index components. Fourth ranked Minnesota and fifth ranked Oregon were above the median for 4 of the 5 components; all but income per non-farm proprietor. Texas, the only southern state in the top 10, also was above-median in 4 of 5 components. The business formation rate was the only below-median component.

Michigan was the lowest ranked state in the 2012 State Entrepreneurship Index. Michigan was well below the median value (index value less than 1.0%) for 4 of 5 components. Michigan performed far below the median in establishment growth, business births and income per proprietor. Michigan, however, was above the median in patents per capita, reflecting the ongoing innovation in its economy. Mississippi, Kentucky, Alabama and South Carolina rounded out the bottom 5 states. Each of these states was below the median for all 5 components of the State Entrepreneurship Index.

States near the middle of the ranking often had mixed results, reflecting the unique strengths and weaknesses of each state. Tennessee was the 25<sup>th</sup> ranked state and was well below the median-value for business births and patents per capita. But, Tennessee had very high income per proprietor. Wisconsin was the 26<sup>th</sup> ranked state. Wisconsin was above the median value in patents per capita, reflecting the research strength of the University of Wisconsin and corporate headquarters in the state. However, Wisconsin struggled with business births and was near the median for other components. Nebraska was ranked 16<sup>th</sup>, reflecting strength in establishment growth, business births, and income per non-farm proprietor but the state was well below-the median state in terms of patents per capita

Table 1  
2012 State Entrepreneurship Index Rank and Index Values for Each Subcomponent Index

| State          | Growth in Establishments | Growth in Establishments Per Capita | Business Formation Rate | Patents Per Thousand Residents | Average Proprietor Income | Average Index Value | Rank |
|----------------|--------------------------|-------------------------------------|-------------------------|--------------------------------|---------------------------|---------------------|------|
| Alabama        | 0.057                    | 0.320                               | 0.154                   | 0.136                          | 0.826                     | 0.298               | 47   |
| Alaska         | 1.377                    | 1.319                               | 1.375                   | -0.018                         | 2.267                     | 1.264               | 19   |
| Arizona        | 1.758                    | 1.541                               | 0.784                   | 1.250                          | 0.679                     | 1.203               | 22   |
| Arkansas       | -0.162                   | 0.091                               | 1.069                   | 0.057                          | 0.533                     | 0.318               | 45   |
| California     | 1.096                    | 1.077                               | 1.002                   | 3.584                          | 1.755                     | 1.703               | 6    |
| Colorado       | 0.750                    | 0.371                               | 2.618                   | 1.961                          | 1.844                     | 1.509               | 10   |
| Connecticut    | 0.429                    | 0.943                               | 0.611                   | 2.431                          | 3.469                     | 1.577               | 7    |
| Delaware       | -1.131                   | -1.441                              | 1.736                   | 1.960                          | 1.263                     | 0.478               | 43   |
| Florida        | 1.755                    | 1.607                               | 2.838                   | 0.694                          | -0.143                    | 1.350               | 15   |
| Georgia        | 1.035                    | 0.903                               | 1.287                   | 0.785                          | 0.316                     | 0.865               | 33   |
| Hawaii         | 0.803                    | 0.691                               | 0.429                   | 0.114                          | 0.374                     | 0.482               | 42   |
| Idaho          | -0.586                   | -0.669                              | 2.130                   | 2.320                          | 0.508                     | 0.741               | 38   |
| Illinois       | 1.304                    | 1.916                               | 0.644                   | 1.389                          | 1.574                     | 1.365               | 14   |
| Indiana        | 0.701                    | 1.088                               | 0.102                   | 0.990                          | 0.952                     | 0.767               | 37   |
| Iowa           | 1.202                    | 1.648                               | 0.998                   | 0.977                          | 1.198                     | 1.205               | 21   |
| Kansas         | -0.840                   | -0.803                              | 0.973                   | 1.333                          | 1.325                     | 0.398               | 44   |
| Kentucky       | -0.149                   | 0.139                               | 0.180                   | 0.316                          | 0.734                     | 0.244               | 48   |
| Louisiana      | 1.185                    | 1.436                               | 0.498                   | 0.125                          | 1.418                     | 0.933               | 31   |
| Maine          | 0.403                    | 0.952                               | 1.499                   | 0.424                          | 0.256                     | 0.707               | 39   |
| Maryland       | 0.388                    | 0.413                               | 1.178                   | 0.952                          | 1.165                     | 0.819               | 35   |
| Massachusetts  | -0.585                   | -0.553                              | 0.750                   | 3.624                          | 2.721                     | 1.191               | 23   |
| Michigan       | -0.925                   | -0.561                              | 0.057                   | 1.862                          | 0.227                     | 0.132               | 50   |
| Minnesota      | 1.902                    | 2.239                               | 0.795                   | 3.092                          | 0.708                     | 1.747               | 4    |
| Mississippi    | 0.104                    | 0.467                               | -0.111                  | -0.056                         | 0.684                     | 0.218               | 49   |
| Missouri       | 0.601                    | 1.053                               | 0.546                   | 0.536                          | 1.513                     | 0.850               | 34   |
| Montana        | 0.855                    | 0.951                               | 3.105                   | 0.277                          | 0.021                     | 1.042               | 27   |
| Nebraska       | 1.671                    | 1.887                               | 1.169                   | 0.484                          | 1.505                     | 1.343               | 16   |
| Nevada         | 1.092                    | 0.726                               | 1.777                   | 1.072                          | 0.470                     | 1.027               | 28   |
| New Hampshire  | 1.301                    | 1.839                               | 2.262                   | 2.258                          | 1.793                     | 1.891               | 3    |
| New Jersey     | -0.929                   | -0.758                              | 1.643                   | 1.945                          | 2.890                     | 0.958               | 29   |
| New Mexico     | 0.595                    | 0.964                               | 0.849                   | 0.619                          | 0.078                     | 0.621               | 41   |
| New York       | 1.250                    | 1.685                               | 1.603                   | 1.571                          | 4.180                     | 2.058               | 2    |
| North Carolina | 1.267                    | 1.197                               | 0.870                   | 1.131                          | 0.315                     | 0.956               | 30   |
| North Dakota   | 5.098                    | 4.626                               | 5.239                   | 0.309                          | 0.888                     | 3.232               | 1    |
| Ohio           | 0.315                    | 0.868                               | 0.038                   | 1.227                          | 0.931                     | 0.676               | 40   |
| Oklahoma       | 1.337                    | 1.447                               | 0.650                   | 0.295                          | 2.485                     | 1.243               | 20   |
| Oregon         | 1.983                    | 2.175                               | 1.600                   | 2.396                          | 0.543                     | 1.739               | 5    |
| Pennsylvania   | 1.360                    | 1.955                               | 1.257                   | 1.010                          | 2.236                     | 1.564               | 9    |
| Rhode Island   | 0.775                    | 1.433                               | 2.111                   | 1.393                          | 1.495                     | 1.441               | 13   |
| South Carolina | 0.577                    | 0.403                               | 0.340                   | 0.594                          | -0.346                    | 0.314               | 46   |
| South Dakota   | 0.983                    | 0.781                               | 1.451                   | 0.372                          | 0.771                     | 0.872               | 32   |
| Tennessee      | 1.017                    | 1.036                               | 0.135                   | 0.415                          | 2.684                     | 1.057               | 25   |
| Texas          | 1.625                    | 1.148                               | 0.534                   | 1.170                          | 3.344                     | 1.564               | 8    |
| Utah           | 1.319                    | 0.961                               | 2.382                   | 1.688                          | 0.126                     | 1.295               | 17   |
| Vermont        | 0.942                    | 1.665                               | 1.812                   | 3.147                          | -0.082                    | 1.497               | 11   |
| Virginia       | 1.876                    | 1.908                               | 1.871                   | 0.655                          | 1.048                     | 1.471               | 12   |
| Washington     | -0.022                   | -0.268                              | 0.953                   | 3.400                          | 1.672                     | 1.147               | 24   |
| West Virginia  | 1.023                    | 1.668                               | 0.050                   | 0.040                          | 1.199                     | 0.796               | 36   |
| Wisconsin      | 1.081                    | 1.540                               | 0.371                   | 1.412                          | 0.868                     | 1.054               | 26   |
| Wyoming        | 1.028                    | 0.536                               | 2.784                   | 0.636                          | 1.457                     | 1.288               | 18   |

Sources: U.S. Department of Labor and U.S. Department of Commerce and U.S. Patent and Trademark Office

## STATE RANKS 2011 AND 2012

There was both stability and volatility in the State Entrepreneurship Index between 2011 and 2012. Many of the top ranked states remained the same or reflected small changes in rank. North Dakota was the highest ranked state in 2012, moving up from the 2<sup>nd</sup> ranking the prior year. New Hampshire climbed from the 6<sup>th</sup> spot in 2011 to the 3<sup>rd</sup> spot in 2012. Minnesota moved from the 9<sup>th</sup> spot to 4<sup>th</sup>. California, Connecticut, Pennsylvania, and Texas were other top ten states in 2012 that were also in the Top 10, or nearly in the Top 10, in 2011. Several states also fell far out of the top rankings in 2012. This occurred due to deterioration in net establishment growth, the most volatile components of the State Entrepreneurship Index. Massachusetts fell from the 1<sup>st</sup> rank in 2011 to 23<sup>rd</sup> in 2012. New Jersey's rank fell from 7<sup>th</sup> to 29<sup>th</sup>.

There was even greater stability at the bottom of the State Entrepreneurship Index ranking. Michigan fell from 49<sup>th</sup> in 2011 to 50<sup>th</sup> in 2012, due to persistent weakness in business formations and establishment growth in the state. Mississippi was the 49<sup>th</sup> ranked state in 2012 and was 45<sup>th</sup> in 2011. The remaining bottom 5 states were in or near the bottom 5 in 2011 as well. These lowest ranked states perform poorly in patent activity and income per non-farm proprietor, in addition to low rates of business formation and net establishment growth. Kansas, the 44<sup>th</sup> ranked states, fell sharply from 2011 to 2012, due to a sharp drop in net establishment growth.

There was significant improvement for several other states due to improvements in net establishment growth. Arizona moved from 39<sup>th</sup> in 2011 up to 22<sup>nd</sup> in 2012 due to significantly faster establishment growth. Nevada experienced a similar movement. Entrepreneurial activity in Arizona and Nevada failed to adjust to the real estate collapse in 2008 and 2009 but is now beginning to recover. Iowa and Nebraska ranked much higher in 2012 than in 2011. Both states had significantly higher establishment growth. Nebraska improved from 24<sup>th</sup> in 2011 up to 16<sup>th</sup> in 2012.

| State          | 2011 Rank | Index Value | 2012 Rank | Index Value |
|----------------|-----------|-------------|-----------|-------------|
| Alabama        | 42        | 0.57        | 47        | 0.30        |
| Alaska         | 25        | 1.15        | 19        | 1.26        |
| Arizona        | 39        | 0.69        | 22        | 1.20        |
| Arkansas       | 32        | 0.99        | 45        | 0.32        |
| California     | 13        | 1.49        | 6         | 1.70        |
| Colorado       | 22        | 1.18        | 10        | 1.51        |
| Connecticut    | 12        | 1.49        | 7         | 1.58        |
| Delaware       | 36        | 0.83        | 43        | 0.48        |
| Florida        | 34        | 0.88        | 15        | 1.35        |
| Georgia        | 41        | 0.61        | 33        | 0.87        |
| Hawaii         | 48        | 0.12        | 42        | 0.48        |
| Idaho          | 35        | 0.86        | 38        | 0.74        |
| Illinois       | 5         | 1.71        | 14        | 1.37        |
| Indiana        | 30        | 1.05        | 37        | 0.77        |
| Iowa           | 43        | 0.55        | 21        | 1.20        |
| Kansas         | 10        | 1.56        | 44        | 0.40        |
| Kentucky       | 47        | 0.22        | 48        | 0.24        |
| Louisiana      | 50        | 0.02        | 31        | 0.93        |
| Maine          | 21        | 1.19        | 39        | 0.71        |
| Maryland       | 16        | 1.37        | 35        | 0.82        |
| Massachusetts  | 1         | 2.70        | 23        | 1.19        |
| Michigan       | 49        | 0.10        | 50        | 0.13        |
| Minnesota      | 9         | 1.60        | 4         | 1.75        |
| Mississippi    | 45        | 0.37        | 49        | 0.22        |
| Missouri       | 40        | 0.61        | 34        | 0.85        |
| Montana        | 33        | 0.92        | 27        | 1.04        |
| Nebraska       | 24        | 1.15        | 16        | 1.34        |
| Nevada         | 44        | 0.39        | 28        | 1.03        |
| New Hampshire  | 6         | 1.69        | 3         | 1.89        |
| New Jersey     | 7         | 1.63        | 29        | 0.96        |
| New Mexico     | 27        | 1.12        | 41        | 0.62        |
| New York       | 3         | 2.36        | 2         | 2.06        |
| North Carolina | 28        | 1.12        | 30        | 0.96        |
| North Dakota   | 2         | 2.58        | 1         | 3.23        |
| Ohio           | 26        | 1.14        | 40        | 0.68        |
| Oklahoma       | 19        | 1.30        | 20        | 1.24        |
| Oregon         | 11        | 1.55        | 5         | 1.74        |
| Pennsylvania   | 8         | 1.63        | 9         | 1.56        |
| Rhode Island   | 20        | 1.30        | 13        | 1.44        |
| South Carolina | 46        | 0.31        | 46        | 0.31        |
| South Dakota   | 29        | 1.08        | 32        | 0.87        |
| Tennessee      | 37        | 0.79        | 25        | 1.06        |
| Texas          | 4         | 1.72        | 8         | 1.56        |
| Utah           | 23        | 1.17        | 17        | 1.30        |
| Vermont        | 15        | 1.43        | 11        | 1.50        |
| Virginia       | 18        | 1.32        | 12        | 1.47        |
| Washington     | 17        | 1.34        | 24        | 1.15        |
| West Virginia  | 38        | 0.71        | 36        | 0.80        |
| Wisconsin      | 31        | 1.04        | 26        | 1.05        |
| Wyoming        | 14        | 1.48        | 18        | 1.29        |

Sources: U.S. Departments of Labor, Commerce and Patent Office

## ESTABLISHMENT GROWTH

This section examines changes in establishment growth between 2011 and 2012. As seen in Table 3, North Dakota remained the top state for establishment growth, given the strength of its energy sector. Three other states remained in the Top 10 in both 2011 and 2012: Pennsylvania, Texas and Virginia. Other states, however, showed significant improvement between 2011 and 2012. Arizona moved from 38<sup>th</sup> rank in 2011 up to 5<sup>th</sup> rank in 2012, and Florida moved from 33<sup>rd</sup> to 6<sup>th</sup>. These states benefited from a recovery in their housing sector. Other state's benefited from more general economic improvement. For example, Oregon moved from 16<sup>th</sup> in 2011 up to 2<sup>nd</sup> in 2012, while Alaska move from 15<sup>th</sup> to 9<sup>th</sup>. Nebraska and Minnesota both moved into the Top 10 in 2012, perhaps buoyed by the strength in the Midwest farm economy in recent years (and despite drought conditions in 2012).

These regional trends were observed in other states as well. Reflecting the strength of the farm economy, Iowa improved from 42<sup>nd</sup> rank in 2011 to 17<sup>th</sup> ranked in 2012. Nevada improved from 48<sup>th</sup> in 2011 to 20<sup>th</sup> in 2012. This improvement also reflects a beginning of a housing sector recovery in another hard-hit state. Louisiana moved from the 49<sup>th</sup> rank in 2011 up to 18<sup>th</sup> in 2012. This improvement in Louisiana may simply reflect special circumstances in the state. The number of establishments declined in the state between 2010 and 2011, as clean-up efforts after the oil spill began to wind down.

There was deterioration in establishment growth in many states during 2012, particularly in the Northeast, which was impacted by a struggling financial sector. Massachusetts fell from 2<sup>nd</sup> ranked in 2011 to 45<sup>th</sup> ranked in 2012. Maryland fell from 9<sup>th</sup> to 38<sup>th</sup> while Maine fell from 13<sup>th</sup> to 37<sup>th</sup>. New York fell in rank and New Jersey fell from 31<sup>st</sup> to 49<sup>th</sup>. Several of the lowest ranked states from 2011 remained at the bottom in 2012 as well. Delaware was 47<sup>th</sup> in 2011 and 50<sup>th</sup> in 2012. Michigan was 50<sup>th</sup> in 2011 and 48<sup>th</sup> in 2012. Idaho was 46<sup>th</sup> in both 2011 and 2012 while Kentucky was 43<sup>rd</sup> during both years.

| State          | 2011 Rank | Index Value | 2012 Rank | Index Value |
|----------------|-----------|-------------|-----------|-------------|
| Alabama        | 26        | 0.98        | 41        | 0.06        |
| Alaska         | 15        | 1.60        | 9         | 1.38        |
| Arizona        | 38        | 0.56        | 5         | 1.76        |
| Arkansas       | 14        | 1.61        | 44        | -0.16       |
| California     | 27        | 0.95        | 19        | 1.10        |
| Colorado       | 44        | 0.10        | 31        | 0.75        |
| Connecticut    | 40        | 0.49        | 36        | 0.43        |
| Delaware       | 47        | -0.38       | 50        | -1.13       |
| Florida        | 33        | 0.72        | 6         | 1.75        |
| Georgia        | 37        | 0.59        | 22        | 1.04        |
| Hawaii         | 45        | 0.01        | 29        | 0.80        |
| Idaho          | 46        | -0.37       | 46        | -0.59       |
| Illinois       | 3         | 2.31        | 13        | 1.30        |
| Indiana        | 18        | 1.55        | 32        | 0.70        |
| Iowa           | 42        | 0.19        | 17        | 1.20        |
| Kansas         | 5         | 2.26        | 47        | -0.84       |
| Kentucky       | 43        | 0.12        | 43        | -0.15       |
| Louisiana      | 49        | -0.89       | 18        | 1.19        |
| Maine          | 13        | 1.62        | 37        | 0.40        |
| Maryland       | 9         | 2.04        | 38        | 0.39        |
| Massachusetts  | 2         | 3.31        | 45        | -0.59       |
| Michigan       | 50        | -0.92       | 48        | -0.93       |
| Minnesota      | 22        | 1.35        | 3         | 1.90        |
| Mississippi    | 36        | 0.61        | 40        | 0.10        |
| Missouri       | 41        | 0.30        | 33        | 0.60        |
| Montana        | 30        | 0.79        | 28        | 0.85        |
| Nebraska       | 19        | 1.53        | 7         | 1.67        |
| Nevada         | 48        | -0.49       | 20        | 1.09        |
| New Hampshire  | 32        | 0.76        | 14        | 1.30        |
| New Jersey     | 31        | 0.78        | 49        | -0.93       |
| New Mexico     | 8         | 2.16        | 34        | 0.60        |
| New York       | 7         | 2.18        | 16        | 1.25        |
| North Carolina | 11        | 1.79        | 15        | 1.27        |
| North Dakota   | 1         | 4.29        | 1         | 5.10        |
| Ohio           | 12        | 1.64        | 39        | 0.32        |
| Oklahoma       | 20        | 1.50        | 11        | 1.34        |
| Oregon         | 16        | 1.57        | 2         | 1.98        |
| Pennsylvania   | 6         | 2.24        | 10        | 1.36        |
| Rhode Island   | 34        | 0.67        | 30        | 0.78        |
| South Carolina | 35        | 0.62        | 35        | 0.58        |
| South Dakota   | 17        | 1.56        | 26        | 0.98        |
| Tennessee      | 39        | 0.51        | 25        | 1.02        |
| Texas          | 4         | 2.26        | 8         | 1.62        |
| Utah           | 23        | 1.18        | 12        | 1.32        |
| Vermont        | 28        | 0.87        | 27        | 0.94        |
| Virginia       | 10        | 1.80        | 4         | 1.88        |
| Washington     | 29        | 0.84        | 42        | -0.02       |
| West Virginia  | 25        | 1.02        | 24        | 1.02        |
| Wisconsin      | 21        | 1.44        | 21        | 1.08        |
| Wyoming        | 24        | 1.10        | 23        | 1.03        |

Source: U.S. Department of Labor

## GROWTH IN ESTABLISHMENTS PER PERSON

Establishment growth may reflect growth in the population of a state rather than a change in the share of the population involved in entrepreneurship. As a result, some states with a large percentage increase (or decrease) in establishments may not experience a large change in the share of the population involved in entrepreneurship.

States with rapid population growth such as Florida and Arizona tend have a lower rank for the growth in establishments per person than for the growth in the number of establishments. In 2012, Florida was ranked 6<sup>th</sup> in the establishment growth (see Table 3) and 13<sup>th</sup> in growth in establishments per person (see Table 4). Arizona was ranked 5<sup>th</sup> in establishment growth but 14<sup>th</sup> in growth in establishments per person. Utah had a similar decline from 12<sup>th</sup> in establishment growth to near the middle, at 27<sup>th</sup>, in growth in establishments per person. Texas was ranked 8<sup>th</sup> in establishment growth but ranked 21<sup>st</sup> in growth in establishments per person.

States with slower population growth or population loss tend to rank higher in growth in establishments per person. This was common among states in the Northeast and Midwest, where population growth is slower. For example, in 2012 New York was ranked 16<sup>th</sup> in establishment growth but 6<sup>th</sup> in growth in establishments per person. New Hampshire was ranked 14<sup>th</sup> in establishment growth and 8<sup>th</sup> in growth in establishments per person. Vermont goes from a rank of 27<sup>th</sup> in establishment growth to a rank of 11<sup>th</sup> in growth in establishments per person. The state of Rhode Island shows a similar improvement. Missouri, Illinois and Iowa are Midwestern states with a higher rank using growth in establishments per person.

One note should be made about estimates for establishment growth per person in 2010 and 2011, as is seen in Appendix A.2. The U.S. Census does not re-estimate state population for the proceeding decade when a new Census population count is made. As a result, pre-Census estimates for 2010 were used to calculate growth in establishments per person for 2009-2010 and post-Census estimates were used to calculate growth for 2010-2011.

| State          | 2011 Rank | Index Value | 2012 Rank | Index Value |
|----------------|-----------|-------------|-----------|-------------|
| Alabama        | 27        | 0.97        | 41        | 0.32        |
| Alaska         | 28        | 0.84        | 19        | 1.32        |
| Arizona        | 39        | 0.19        | 14        | 1.54        |
| Arkansas       | 12        | 1.50        | 43        | 0.09        |
| California     | 33        | 0.53        | 23        | 1.08        |
| Colorado       | 45        | -0.62       | 40        | 0.37        |
| Connecticut    | 31        | 0.58        | 30        | 0.94        |
| Delaware       | 49        | -0.80       | 50        | -1.44       |
| Florida        | 43        | 0.06        | 13        | 1.61        |
| Georgia        | 41        | 0.11        | 31        | 0.90        |
| Hawaii         | 44        | -0.47       | 35        | 0.69        |
| Idaho          | 48        | -0.70       | 47        | -0.67       |
| Illinois       | 3         | 2.51        | 5         | 1.92        |
| Indiana        | 11        | 1.54        | 22        | 1.09        |
| Iowa           | 40        | 0.13        | 12        | 1.65        |
| Kansas         | 5         | 2.26        | 49        | -0.80       |
| Kentucky       | 42        | 0.06        | 42        | 0.14        |
| Louisiana      | 50        | -1.12       | 17        | 1.44        |
| Maine          | 9         | 1.87        | 28        | 0.95        |
| Maryland       | 10        | 1.66        | 38        | 0.41        |
| Massachusetts  | 2         | 3.11        | 45        | -0.55       |
| Michigan       | 46        | -0.62       | 46        | -0.56       |
| Minnesota      | 23        | 1.12        | 2         | 2.24        |
| Mississippi    | 30        | 0.69        | 37        | 0.47        |
| Missouri       | 34        | 0.43        | 24        | 1.05        |
| Montana        | 32        | 0.55        | 29        | 0.95        |
| Nebraska       | 17        | 1.31        | 7         | 1.89        |
| Nevada         | 47        | -0.66       | 34        | 0.73        |
| New Hampshire  | 25        | 1.00        | 8         | 1.84        |
| New Jersey     | 29        | 0.81        | 48        | -0.76       |
| New Mexico     | 7         | 1.95        | 26        | 0.96        |
| New York       | 6         | 2.08        | 9         | 1.68        |
| North Carolina | 15        | 1.35        | 20        | 1.20        |
| North Dakota   | 1         | 3.40        | 1         | 4.63        |
| Ohio           | 8         | 1.93        | 32        | 0.87        |
| Oklahoma       | 18        | 1.30        | 16        | 1.45        |
| Oregon         | 20        | 1.27        | 3         | 2.18        |
| Pennsylvania   | 4         | 2.36        | 4         | 1.95        |
| Rhode Island   | 22        | 1.13        | 18        | 1.43        |
| South Carolina | 36        | 0.30        | 39        | 0.40        |
| South Dakota   | 21        | 1.17        | 33        | 0.78        |
| Tennessee      | 37        | 0.29        | 25        | 1.04        |
| Texas          | 14        | 1.38        | 21        | 1.15        |
| Utah           | 35        | 0.40        | 27        | 0.96        |
| Vermont        | 24        | 1.09        | 11        | 1.66        |
| Virginia       | 16        | 1.34        | 6         | 1.91        |
| Washington     | 38        | 0.24        | 44        | -0.27       |
| West Virginia  | 19        | 1.29        | 10        | 1.67        |
| Wisconsin      | 13        | 1.47        | 15        | 1.54        |
| Wyoming        | 26        | 1.00        | 36        | 0.54        |

Sources: U.S. Departments of Labor and Commerce

## THE BUSINESS FORMATION RATE

State business formation rates were generally stable between 2011 and 2012, as seen in Table 5. However, selected states showed significant improvement. Iowa moved from the 42<sup>nd</sup> rank in 2011 up to a rank of 26<sup>th</sup> in 2012. Pennsylvania moved from 41<sup>st</sup> in 2011 to the rank of 21<sup>st</sup> in 2012. Other states saw a significant decline. Minnesota dropped from a rank of 18<sup>th</sup> in 2011 to a rank of 31<sup>st</sup> in 2012. While no other state experienced such a large decline in its rank, several states did see a noteworthy decline. Indiana dropped from 39<sup>th</sup> in business formation rate in 2011 to 46<sup>th</sup> in 2012. Massachusetts dropped from 27<sup>th</sup> to 33<sup>rd</sup>.

Beyond changes in the business formation rate, it is interesting to note the strength (or weakness) in business formation in selected states. North Dakota has the highest business formation rate in 2012. There is also substantial strength in many Mountain states. Colorado and Utah, which are the largest Mountain states, are ranked 5<sup>th</sup> and 6<sup>th</sup>, respectively. Montana is ranked 2<sup>nd</sup>, Wyoming is ranked 4<sup>th</sup> and Idaho is ranked 8<sup>th</sup>. Florida is the 3<sup>rd</sup> ranked state, in another sign of that state's economic recovery. Perhaps surprisingly, Texas, a highly ranked state in the overall entrepreneurship index, is a below-median state in terms of the business formation rate. Readers who believe that the business formation rate is the most important indicator of a state's entrepreneurial strength should note this difference.

The lowest ranked states in terms of business formation are concentrated in the industrial Midwest and in the South. Ohio is the 49<sup>th</sup> ranked state, Michigan is 47<sup>th</sup> and Indiana is 46<sup>th</sup>. Wisconsin ranks 41<sup>st</sup> and Illinois is 35<sup>th</sup>. The Illinois economy is more diversified than the others, given the concentration of headquarters locations and service firms in the Chicago area. In the South, Mississippi is the lowest ranked state. West Virginia is ranked 48<sup>th</sup>, Tennessee is ranked 45<sup>th</sup>, Alabama is ranked 44<sup>th</sup>, Kentucky is ranked 43<sup>rd</sup> and South Carolina is ranked 41<sup>st</sup>.

| State          | 2011 Rank | Index Value | 2012 Rank | Index Value |
|----------------|-----------|-------------|-----------|-------------|
| Alabama        | 46        | 0.00        | 44        | 0.15        |
| Alaska         | 20        | 1.23        | 19        | 1.37        |
| Arizona        | 32        | 0.73        | 32        | 0.78        |
| Arkansas       | 21        | 1.22        | 24        | 1.07        |
| California     | 28        | 0.93        | 25        | 1.00        |
| Colorado       | 5         | 2.68        | 5         | 2.62        |
| Connecticut    | 35        | 0.51        | 36        | 0.61        |
| Delaware       | 9         | 2.00        | 13        | 1.74        |
| Florida        | 3         | 3.08        | 3         | 2.84        |
| Georgia        | 22        | 1.22        | 20        | 1.29        |
| Hawaii         | 36        | 0.50        | 40        | 0.43        |
| Idaho          | 8         | 2.11        | 8         | 2.13        |
| Illinois       | 30        | 0.78        | 35        | 0.64        |
| Indiana        | 39        | 0.38        | 46        | 0.10        |
| Iowa           | 42        | 0.24        | 26        | 1.00        |
| Kansas         | 25        | 1.00        | 27        | 0.97        |
| Kentucky       | 49        | -0.13       | 43        | 0.18        |
| Louisiana      | 34        | 0.55        | 39        | 0.50        |
| Maine          | 12        | 1.81        | 17        | 1.50        |
| Maryland       | 26        | 1.00        | 22        | 1.18        |
| Massachusetts  | 27        | 0.99        | 33        | 0.75        |
| Michigan       | 43        | 0.11        | 47        | 0.06        |
| Minnesota      | 18        | 1.60        | 31        | 0.79        |
| Mississippi    | 50        | -0.13       | 50        | -0.11       |
| Missouri       | 40        | 0.31        | 37        | 0.55        |
| Montana        | 4         | 2.95        | 2         | 3.10        |
| Nebraska       | 23        | 1.06        | 23        | 1.17        |
| Nevada         | 16        | 1.75        | 12        | 1.78        |
| New Hampshire  | 6         | 2.49        | 7         | 2.26        |
| New Jersey     | 13        | 1.80        | 14        | 1.64        |
| New Mexico     | 31        | 0.74        | 30        | 0.85        |
| New York       | 14        | 1.78        | 15        | 1.60        |
| North Carolina | 24        | 1.05        | 29        | 0.87        |
| North Dakota   | 1         | 4.05        | 1         | 5.24        |
| Ohio           | 48        | -0.09       | 49        | 0.04        |
| Oklahoma       | 33        | 0.72        | 34        | 0.65        |
| Oregon         | 11        | 1.94        | 16        | 1.60        |
| Pennsylvania   | 41        | 0.29        | 21        | 1.26        |
| Rhode Island   | 10        | 1.98        | 9         | 2.11        |
| South Carolina | 38        | 0.45        | 42        | 0.34        |
| South Dakota   | 19        | 1.58        | 18        | 1.45        |
| Tennessee      | 47        | -0.01       | 45        | 0.14        |
| Texas          | 37        | 0.48        | 38        | 0.53        |
| Utah           | 7         | 2.46        | 6         | 2.38        |
| Vermont        | 15        | 1.76        | 11        | 1.81        |
| Virginia       | 17        | 1.70        | 10        | 1.87        |
| Washington     | 29        | 0.85        | 28        | 0.95        |
| West Virginia  | 44        | 0.07        | 48        | 0.05        |
| Wisconsin      | 45        | 0.01        | 41        | 0.37        |
| Wyoming        | 2         | 3.45        | 4         | 2.78        |

Sources: U.S. Departments of Labor and Commerce

## PATENTS PER THOUSAND PERSONS

The index component of patents per thousand persons was largely stable in states between 2011 and 2012. Most state ranks were unchanged or nearly unchanged between the two years. There were, however, occasional modest movements in the ranks of some states. Oklahoma fell from 37<sup>th</sup> ranked in 2011 to 42<sup>nd</sup> ranked in 2012, while Maryland fell from 24<sup>th</sup> to 28<sup>th</sup> and Tennessee fell from 34<sup>th</sup> to 38<sup>th</sup>. Among improving states, Wyoming rose from 40<sup>th</sup> in 2011 to 32<sup>nd</sup> in 2012 while Kansas rose from 25<sup>th</sup> to 19<sup>th</sup>. Nevada rose from 28<sup>th</sup> to 24<sup>th</sup>.

Regardless of the change in ranking, it is interesting to observe which states had a consistently high ranking in terms of patent activity. Massachusetts was among the highest ranked states in both 2011 and 2012 as was California. These results reflect the influence of major universities in each state and the Silicon Valley and 128 Corridor areas. Surrounding the Boston area, Connecticut, New Hampshire and Vermont were highly ranked in patents per thousand persons. Many western states ranked high on this measure, in addition to California. Washington was among the top 5 ranked states in both 2011 and 2012 while Oregon was ranked 7<sup>th</sup> in both years. Among Mountain States, Idaho was ranked 8<sup>th</sup> in 2012 and was 6<sup>th</sup> in 2011 while Colorado was ranked 10<sup>th</sup> in 2012 and Utah was ranked 14<sup>th</sup>. Minnesota, a state with many corporate headquarters and a major research University, was ranked 5<sup>th</sup> in 2012 and 4<sup>th</sup> in 2011.

Among the lowest ranked states, Alaska ranks 49<sup>th</sup> in patents per thousand persons while Hawaii ranks 46<sup>th</sup>. But, generally speaking, the lowest ranked states are concentrated in the South. Mississippi is the 50<sup>th</sup> ranked state in terms of patents per thousand persons in 2012. West Virginia is the 48<sup>th</sup> ranked state while Arkansas is ranked 47<sup>th</sup>. Louisiana is the 45<sup>th</sup> ranked state while Alabama is 44<sup>th</sup>. Surprisingly, even southern states with large technology sectors such as Texas, North Carolina, and Virginia were near the median state in patents per thousand residents.

| State          | 2011 Rank | Index Value | 2012 Rank | Index Value |
|----------------|-----------|-------------|-----------|-------------|
| Alabama        | 45        | 0.16        | 44        | 0.14        |
| Alaska         | 50        | -0.03       | 49        | -0.02       |
| Arizona        | 18        | 1.29        | 20        | 1.25        |
| Arkansas       | 47        | 0.06        | 47        | 0.06        |
| California     | 3         | 3.33        | 2         | 3.58        |
| Colorado       | 12        | 1.82        | 10        | 1.96        |
| Connecticut    | 9         | 2.36        | 6         | 2.43        |
| Delaware       | 10        | 1.97        | 11        | 1.96        |
| Florida        | 31        | 0.66        | 30        | 0.69        |
| Georgia        | 29        | 0.76        | 29        | 0.79        |
| Hawaii         | 44        | 0.19        | 46        | 0.11        |
| Idaho          | 6         | 2.78        | 8         | 2.32        |
| Illinois       | 17        | 1.34        | 18        | 1.39        |
| Indiana        | 27        | 0.87        | 26        | 0.99        |
| Iowa           | 26        | 1.00        | 27        | 0.98        |
| Kansas         | 25        | 1.00        | 19        | 1.33        |
| Kentucky       | 42        | 0.33        | 40        | 0.32        |
| Louisiana      | 46        | 0.13        | 45        | 0.13        |
| Maine          | 36        | 0.44        | 37        | 0.42        |
| Maryland       | 24        | 1.00        | 28        | 0.95        |
| Massachusetts  | 2         | 3.42        | 1         | 3.62        |
| Michigan       | 13        | 1.72        | 13        | 1.86        |
| Minnesota      | 4         | 3.22        | 5         | 3.09        |
| Mississippi    | 49        | 0.03        | 50        | -0.06       |
| Missouri       | 35        | 0.51        | 35        | 0.54        |
| Montana        | 43        | 0.28        | 43        | 0.28        |
| Nebraska       | 39        | 0.36        | 36        | 0.48        |
| Nevada         | 28        | 0.86        | 24        | 1.07        |
| New Hampshire  | 8         | 2.44        | 9         | 2.26        |
| New Jersey     | 11        | 1.89        | 12        | 1.95        |
| New Mexico     | 32        | 0.64        | 33        | 0.62        |
| New York       | 15        | 1.53        | 15        | 1.57        |
| North Carolina | 22        | 1.08        | 23        | 1.13        |
| North Dakota   | 38        | 0.39        | 41        | 0.31        |
| Ohio           | 19        | 1.25        | 21        | 1.23        |
| Oklahoma       | 37        | 0.39        | 42        | 0.29        |
| Oregon         | 7         | 2.45        | 7         | 2.40        |
| Pennsylvania   | 23        | 1.03        | 25        | 1.01        |
| Rhode Island   | 20        | 1.24        | 17        | 1.39        |
| South Carolina | 33        | 0.52        | 34        | 0.59        |
| South Dakota   | 41        | 0.34        | 39        | 0.37        |
| Tennessee      | 34        | 0.52        | 38        | 0.42        |
| Texas          | 21        | 1.15        | 22        | 1.17        |
| Utah           | 14        | 1.66        | 14        | 1.69        |
| Vermont        | 1         | 3.51        | 4         | 3.15        |
| Virginia       | 30        | 0.71        | 31        | 0.66        |
| Washington     | 5         | 3.14        | 3         | 3.40        |
| West Virginia  | 48        | 0.04        | 48        | 0.04        |
| Wisconsin      | 16        | 1.42        | 16        | 1.41        |
| Wyoming        | 40        | 0.35        | 32        | 0.64        |

Source: U.S. Patent and Trademark Office



## INCOME PER NON-FARM PROPRIETOR

Income per non-farm proprietor is another index component that was stable between 2011 and 2012. Most states held the same rank or a very similar rank in 2011 and 2012. When states did change rank, the change was only by one or two spots.

There was a regional pattern in state ranks in income per non-farm proprietor. The densely populated Northeast states of New York, New Jersey, and Connecticut were among the highest ranked states. New York was the highest ranked state in terms of income per non-farm proprietor and Connecticut is 2<sup>nd</sup> ranked. New Jersey is the 4<sup>th</sup> ranked state and Massachusetts is 5<sup>th</sup> ranked. Pennsylvania is the 8<sup>th</sup> ranked state.

High ranked states in other regions are typically states without a state income tax. Texas was the 3<sup>rd</sup> ranked state while Tennessee was ranked 6<sup>th</sup>. Alaska was the 9<sup>th</sup> ranked state while New Hampshire was ranked 11<sup>th</sup>. Washington was the 14<sup>th</sup> ranked state in 2012 and Wyoming was ranked 15<sup>th</sup>. Only South Dakota broke the pattern, with a ranking of 31<sup>st</sup>. Among other Western states, Colorado was ranked 10<sup>th</sup> and California was ranked 12<sup>th</sup>.

Many southern states had lower levels of income per non-farm proprietor including Florida, which was ranked 49<sup>th</sup>, South Carolina which was 50<sup>th</sup>, North Carolina which was ranked 42<sup>nd</sup> and Georgia which was ranked 41<sup>st</sup>. Vermont was ranked 48<sup>th</sup> in earnings per non-farm proprietor, demonstrating that patent activity (see Table 6) is not necessarily associated with higher proprietor income.

One technical matter to note is that 2012 values of income per proprietor are estimates. Data on the number of non-farm proprietors by state has not yet been estimated by the Bureau of Economic Analysis within the U.S. Department of Commerce. Income per non-farm proprietor in 2012 was estimated by multiplying the 2011 values by the 2012 growth in non-farm proprietor income.

| State          | 2011 Rank | Index Value | 2012 Rank | Index Value |
|----------------|-----------|-------------|-----------|-------------|
| Alabama        | 30        | 0.77        | 30        | 0.83        |
| Alaska         | 8         | 2.09        | 9         | 2.27        |
| Arizona        | 35        | 0.68        | 34        | 0.68        |
| Arkansas       | 37        | 0.54        | 36        | 0.53        |
| California     | 12        | 1.71        | 12        | 1.76        |
| Colorado       | 10        | 1.93        | 10        | 1.84        |
| Connecticut    | 2         | 3.51        | 2         | 3.47        |
| Delaware       | 21        | 1.37        | 20        | 1.26        |
| Florida        | 49        | -0.10       | 49        | -0.14       |
| Georgia        | 41        | 0.35        | 41        | 0.32        |
| Hawaii         | 40        | 0.38        | 40        | 0.37        |
| Idaho          | 38        | 0.47        | 39        | 0.51        |
| Illinois       | 14        | 1.63        | 13        | 1.57        |
| Indiana        | 26        | 0.92        | 27        | 0.95        |
| Iowa           | 23        | 1.18        | 22        | 1.20        |
| Kansas         | 20        | 1.30        | 21        | 1.33        |
| Kentucky       | 32        | 0.71        | 33        | 0.73        |
| Louisiana      | 19        | 1.42        | 19        | 1.42        |
| Maine          | 43        | 0.23        | 44        | 0.26        |
| Maryland       | 24        | 1.14        | 24        | 1.16        |
| Massachusetts  | 5         | 2.65        | 5         | 2.72        |
| Michigan       | 44        | 0.23        | 43        | 0.23        |
| Minnesota      | 33        | 0.71        | 32        | 0.71        |
| Mississippi    | 34        | 0.65        | 35        | 0.68        |
| Missouri       | 15        | 1.49        | 16        | 1.51        |
| Montana        | 47        | 0.01        | 47        | 0.02        |
| Nebraska       | 16        | 1.47        | 18        | 1.51        |
| Nevada         | 39        | 0.51        | 38        | 0.47        |
| New Hampshire  | 11        | 1.75        | 11        | 1.79        |
| New Jersey     | 4         | 2.87        | 4         | 2.89        |
| New Mexico     | 46        | 0.10        | 46        | 0.08        |
| New York       | 1         | 4.23        | 1         | 4.18        |
| North Carolina | 42        | 0.31        | 42        | 0.31        |
| North Dakota   | 28        | 0.78        | 29        | 0.89        |
| Ohio           | 27        | 0.96        | 26        | 0.93        |
| Oklahoma       | 7         | 2.61        | 7         | 2.49        |
| Oregon         | 36        | 0.51        | 37        | 0.54        |
| Pennsylvania   | 9         | 2.22        | 8         | 2.24        |
| Rhode Island   | 17        | 1.48        | 17        | 1.49        |
| South Carolina | 50        | -0.34       | 50        | -0.35       |
| South Dakota   | 31        | 0.76        | 31        | 0.77        |
| Tennessee      | 6         | 2.63        | 6         | 2.68        |
| Texas          | 3         | 3.33        | 3         | 3.34        |
| Utah           | 45        | 0.13        | 45        | 0.13        |
| Vermont        | 48        | -0.09       | 48        | -0.08       |
| Virginia       | 25        | 1.04        | 25        | 1.05        |
| Washington     | 13        | 1.60        | 14        | 1.67        |
| West Virginia  | 22        | 1.14        | 23        | 1.20        |
| Wisconsin      | 29        | 0.86        | 28        | 0.87        |
| Wyoming        | 18        | 1.50        | 15        | 1.46        |

Sources: U.S. Department of Labor

Table A.1

## Non-Farm Establishments and Growth Rate 2005-2012

| State         | Non-Farm Establishments |         |         |         |         |         |         |         |         | Growth Rate |        |        |        |        |        |        |        |
|---------------|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|--------|--------|--------|--------|--------|--------|--------|
|               | 2004                    | 2005    | 2006    | 2007    | 2008    | 2009    | 2010    | 2011    | 2012    | 2005        | 2006   | 2007   | 2008   | 2009   | 2010   | 2011   | 2012   |
| Alabama       | 103,921                 | 107,053 | 107,565 | 110,438 | 112,127 | 109,543 | 107,836 | 107,631 | 107,290 | 3.01%       | 0.48%  | 2.67%  | 1.53%  | -2.30% | -1.56% | -0.19% | -0.32% |
| Alaska        | 18,160                  | 18,448  | 18,678  | 18,857  | 19,097  | 18,963  | 19,038  | 19,154  | 19,486  | 1.59%       | 1.24%  | 0.96%  | 1.27%  | -0.70% | 0.40%  | 0.61%  | 1.73%  |
| Arizona       | 124,378                 | 130,421 | 141,820 | 151,444 | 154,486 | 146,126 | 139,060 | 138,054 | 141,261 | 4.86%       | 8.74%  | 6.79%  | 2.01%  | -5.41% | -4.84% | -0.72% | 2.32%  |
| Arkansas      | 70,013                  | 72,096  | 75,155  | 77,286  | 79,829  | 80,678  | 80,034  | 80,542  | 80,014  | 2.98%       | 4.24%  | 2.84%  | 3.29%  | 1.06%  | -0.80% | 0.63%  | -0.66% |
| California    | 844,501                 | 852,649 | 870,775 | 884,724 | 893,010 | 884,755 | 872,397 | 870,399 | 881,669 | 0.96%       | 2.13%  | 1.60%  | 0.94%  | -0.92% | -1.40% | -0.23% | 1.29%  |
| Colorado      | 156,745                 | 162,799 | 167,985 | 172,411 | 172,978 | 170,472 | 166,041 | 163,853 | 165,097 | 3.86%       | 3.19%  | 2.63%  | 0.33%  | -1.45% | -2.60% | -1.32% | 0.76%  |
| Connecticut   | 100,331                 | 101,218 | 102,077 | 102,950 | 103,631 | 102,923 | 101,569 | 100,745 | 101,008 | 0.88%       | 0.85%  | 0.86%  | 0.66%  | -0.68% | -1.32% | -0.81% | 0.26%  |
| Delaware      | 27,720                  | 29,187  | 29,191  | 29,744  | 29,600  | 28,344  | 27,647  | 27,108  | 26,523  | 5.30%       | 0.01%  | 1.90%  | -0.49% | -4.24% | -2.46% | -1.95% | -2.16% |
| Florida       | 499,343                 | 532,106 | 560,609 | 580,315 | 600,014 | 582,219 | 575,377 | 572,382 | 585,648 | 6.56%       | 5.36%  | 3.52%  | 3.39%  | -2.97% | -1.18% | -0.52% | 2.32%  |
| Georgia       | 231,559                 | 238,448 | 245,394 | 254,524 | 260,649 | 257,539 | 253,450 | 251,695 | 254,719 | 2.98%       | 2.91%  | 3.72%  | 2.41%  | -1.19% | -1.59% | -0.69% | 1.20%  |
| Hawaii        | 33,732                  | 33,967  | 34,638  | 35,820  | 36,482  | 36,773  | 36,304  | 35,782  | 36,083  | 0.70%       | 1.98%  | 3.41%  | 1.85%  | 0.80%  | -1.28% | -1.44% | 0.84%  |
| Idaho         | 45,583                  | 48,060  | 50,815  | 53,003  | 53,592  | 52,920  | 51,547  | 50,554  | 49,890  | 5.43%       | 5.73%  | 4.30%  | 1.11%  | -1.25% | -2.60% | -1.92% | -1.31% |
| Illinois      | 312,517                 | 320,902 | 331,762 | 341,279 | 347,204 | 352,446 | 355,640 | 361,089 | 366,931 | 2.68%       | 3.38%  | 2.87%  | 1.74%  | 1.51%  | 0.91%  | 1.53%  | 1.62%  |
| Indiana       | 145,911                 | 146,838 | 148,445 | 150,931 | 152,980 | 152,336 | 150,518 | 151,351 | 152,384 | 0.64%       | 1.09%  | 1.67%  | 1.36%  | -0.42% | -1.19% | 0.55%  | 0.68%  |
| Iowa          | 84,907                  | 85,137  | 86,014  | 86,714  | 86,963  | 86,964  | 86,374  | 85,327  | 86,574  | 0.27%       | 1.03%  | 0.81%  | 0.29%  | 0.00%  | -0.68% | -1.21% | 1.46%  |
| Kansas        | 74,485                  | 75,367  | 76,422  | 76,526  | 77,676  | 78,795  | 78,909  | 80,067  | 78,699  | 1.18%       | 1.40%  | 0.14%  | 1.50%  | 1.44%  | 0.14%  | 1.47%  | -1.71% |
| Kentucky      | 97,397                  | 98,217  | 101,639 | 105,474 | 104,905 | 99,135  | 99,651  | 98,364  | 97,738  | 0.84%       | 3.48%  | 3.77%  | -0.54% | -5.50% | 0.52%  | -1.29% | -0.64% |
| Louisiana     | 106,262                 | 109,582 | 112,089 | 112,225 | 114,255 | 116,301 | 120,292 | 117,155 | 118,835 | 3.12%       | 2.29%  | 0.12%  | 1.81%  | 1.79%  | 3.43%  | -2.61% | 1.43%  |
| Maine         | 44,341                  | 44,786  | 44,909  | 45,897  | 46,528  | 46,225  | 44,889  | 45,178  | 45,277  | 1.00%       | 0.28%  | 2.20%  | 1.38%  | -0.65% | -2.89% | 0.64%  | 0.22%  |
| Maryland      | 143,841                 | 148,308 | 150,771 | 154,886 | 155,628 | 153,161 | 151,619 | 153,424 | 153,727 | 3.11%       | 1.66%  | 2.73%  | 0.48%  | -1.59% | -1.01% | 1.19%  | 0.20%  |
| Massachusetts | 187,231                 | 192,538 | 183,742 | 184,848 | 185,642 | 183,983 | 185,636 | 190,885 | 188,378 | 2.83%       | -4.57% | 0.60%  | 0.43%  | -0.89% | 0.90%  | 2.83%  | -1.31% |
| Michigan      | 244,282                 | 245,859 | 246,939 | 248,658 | 248,279 | 244,101 | 237,577 | 231,314 | 227,057 | 0.65%       | 0.44%  | 0.70%  | -0.15% | -1.68% | -2.67% | -2.64% | -1.84% |
| Minnesota     | 146,935                 | 151,123 | 157,133 | 156,247 | 157,989 | 155,211 | 152,860 | 153,305 | 157,209 | 2.85%       | 3.98%  | -0.56% | 1.12%  | -1.76% | -1.51% | 0.29%  | 2.55%  |
| Mississippi   | 60,380                  | 61,817  | 62,822  | 64,079  | 65,128  | 65,128  | 63,999  | 63,574  | 63,418  | 2.38%       | 1.63%  | 2.00%  | 1.64%  | 0.00%  | -1.73% | -0.66% | -0.24% |
| Missouri      | 149,635                 | 151,129 | 152,936 | 155,024 | 155,609 | 152,868 | 150,872 | 149,263 | 150,051 | 1.00%       | 1.20%  | 1.37%  | 0.38%  | -1.76% | -1.31% | -1.07% | 0.53%  |

Table A.1 (Continued)

## Non-Farm Establishments and Growth Rate 2005-2012

| State          | Non-Farm Establishments |         |         |         |         |         |         |         |         | Growth Rate |       |        |        |        |        |        |        |
|----------------|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|-------|--------|--------|--------|--------|--------|--------|
|                | 2004                    | 2005    | 2006    | 2007    | 2008    | 2009    | 2010    | 2011    | 2012    | 2005        | 2006  | 2007   | 2008   | 2009   | 2010   | 2011   | 2012   |
| Montana        | 38,915                  | 37,391  | 38,235  | 39,490  | 40,295  | 40,118  | 39,564  | 39,392  | 39,755  | -3.92%      | 2.26% | 3.28%  | 2.04%  | -0.44% | -1.38% | -0.43% | 0.92%  |
| Nebraska       | 50,741                  | 51,907  | 53,197  | 54,046  | 54,915  | 55,254  | 55,194  | 55,484  | 56,698  | 2.30%       | 2.48% | 1.60%  | 1.61%  | 0.62%  | -0.11% | 0.53%  | 2.19%  |
| Nevada         | 60,976                  | 64,500  | 68,705  | 72,760  | 75,100  | 74,427  | 71,129  | 69,642  | 70,540  | 5.78%       | 6.52% | 5.90%  | 3.22%  | -0.90% | -4.43% | -2.09% | 1.29%  |
| New Hampshire  | 44,278                  | 44,548  | 45,477  | 46,007  | 46,295  | 45,890  | 45,177  | 44,963  | 45,688  | 0.61%       | 2.09% | 1.17%  | 0.63%  | -0.88% | -1.55% | -0.47% | 1.61%  |
| New Jersey     | 253,969                 | 260,119 | 262,394 | 261,332 | 261,706 | 255,043 | 255,444 | 254,318 | 249,625 | 2.42%       | 0.87% | -0.40% | 0.14%  | -2.55% | 0.16%  | -0.44% | -1.85% |
| New Mexico     | 45,716                  | 46,176  | 47,686  | 48,967  | 49,861  | 49,729  | 50,007  | 50,680  | 50,943  | 1.01%       | 3.27% | 2.69%  | 1.83%  | -0.26% | 0.56%  | 1.35%  | 0.52%  |
| New York       | 521,638                 | 529,013 | 537,002 | 543,337 | 549,579 | 551,545 | 553,644 | 561,238 | 569,848 | 1.41%       | 1.51% | 1.18%  | 1.15%  | 0.36%  | 0.38%  | 1.37%  | 1.53%  |
| North Carolina | 215,263                 | 219,624 | 228,082 | 237,882 | 244,604 | 241,831 | 238,130 | 240,190 | 243,937 | 2.03%       | 3.85% | 4.30%  | 2.83%  | -1.13% | -1.53% | 0.86%  | 1.56%  |
| North Dakota   | 22,133                  | 22,662  | 22,992  | 22,677  | 23,166  | 23,370  | 23,645  | 24,614  | 26,461  | 2.39%       | 1.46% | -1.37% | 2.16%  | 0.88%  | 1.18%  | 4.10%  | 7.51%  |
| Ohio           | 268,664                 | 270,462 | 271,367 | 272,929 | 275,425 | 271,915 | 266,970 | 268,752 | 268,977 | 0.67%       | 0.33% | 0.58%  | 0.91%  | -1.27% | -1.82% | 0.67%  | 0.08%  |
| Oklahoma       | 85,351                  | 87,506  | 89,493  | 91,967  | 94,020  | 94,198  | 95,241  | 95,709  | 97,307  | 2.52%       | 2.27% | 2.76%  | 2.23%  | 0.19%  | 1.11%  | 0.49%  | 1.67%  |
| Oregon         | 109,587                 | 112,585 | 117,544 | 121,077 | 119,804 | 117,260 | 116,338 | 117,012 | 120,137 | 2.74%       | 4.41% | 3.01%  | -1.05% | -2.12% | -0.79% | 0.58%  | 2.67%  |
| Pennsylvania   | 304,695                 | 309,611 | 313,046 | 320,351 | 323,709 | 323,281 | 321,931 | 326,587 | 332,156 | 1.61%       | 1.11% | 2.33%  | 1.05%  | -0.13% | -0.42% | 1.45%  | 1.71%  |
| Rhode Island   | 33,787                  | 34,433  | 34,693  | 34,810  | 34,446  | 33,935  | 33,406  | 33,211  | 33,476  | 1.91%       | 0.75% | 0.34%  | -1.04% | -1.48% | -1.56% | -0.58% | 0.80%  |
| South Carolina | 103,991                 | 110,244 | 117,581 | 113,775 | 110,877 | 107,397 | 103,448 | 102,780 | 103,284 | 6.01%       | 6.65% | -3.24% | -2.55% | -3.14% | -3.68% | -0.65% | 0.49%  |
| South Dakota   | 25,948                  | 26,582  | 27,125  | 27,548  | 27,859  | 28,147  | 28,231  | 28,392  | 28,710  | 2.45%       | 2.04% | 1.56%  | 1.13%  | 1.03%  | 0.30%  | 0.57%  | 1.12%  |
| Tennessee      | 122,271                 | 124,426 | 128,274 | 132,840 | 135,845 | 134,272 | 131,974 | 130,934 | 132,469 | 1.76%       | 3.09% | 3.56%  | 2.26%  | -1.16% | -1.71% | -0.79% | 1.17%  |
| Texas          | 477,222                 | 487,236 | 498,662 | 524,618 | 528,676 | 527,998 | 530,268 | 538,092 | 549,479 | 2.10%       | 2.34% | 5.21%  | 0.77%  | -0.13% | 0.43%  | 1.48%  | 2.12%  |
| Utah           | 70,264                  | 75,200  | 79,632  | 81,456  | 81,965  | 80,272  | 77,828  | 77,886  | 79,164  | 7.03%       | 5.89% | 2.29%  | 0.62%  | -2.07% | -3.04% | 0.07%  | 1.64%  |
| Vermont        | 21,975                  | 22,288  | 22,491  | 22,744  | 22,875  | 22,642  | 22,185  | 22,113  | 22,346  | 1.42%       | 0.91% | 1.12%  | 0.58%  | -1.02% | -2.02% | -0.33% | 1.06%  |
| Virginia       | 188,375                 | 194,737 | 199,123 | 209,384 | 212,284 | 213,443 | 213,222 | 215,082 | 220,469 | 3.38%       | 2.25% | 5.15%  | 1.39%  | 0.55%  | -0.10% | 0.87%  | 2.50%  |
| Washington     | 161,389                 | 164,819 | 169,509 | 174,150 | 176,640 | 176,468 | 172,866 | 172,242 | 171,486 | 2.13%       | 2.85% | 2.74%  | 1.43%  | -0.10% | -2.04% | -0.36% | -0.44% |
| West Virginia  | 43,272                  | 43,615  | 43,777  | 44,057  | 43,980  | 43,435  | 43,143  | 43,088  | 43,598  | 0.79%       | 0.37% | 0.64%  | -0.17% | -1.24% | -0.67% | -0.13% | 1.18%  |
| Wisconsin      | 145,164                 | 147,879 | 149,604 | 146,354 | 147,981 | 144,004 | 141,694 | 142,275 | 144,085 | 1.87%       | 1.17% | -2.17% | 1.11%  | -2.69% | -1.60% | 0.41%  | 1.27%  |
| Wyoming        | 20,531                  | 21,190  | 21,974  | 22,519  | 23,111  | 23,300  | 23,180  | 23,175  | 23,451  | 3.21%       | 3.70% | 2.48%  | 2.63%  | 0.82%  | -0.52% | -0.02% | 1.19%  |

Sources: U.S. Departments of Labor and Commerce

Note: Average value of quarterly establishments Q4 of previous year through Q3 of current year

Table A.2

## Growth Rate of Non-Farm Establishments Per Person 2005-2012

| Population Estimates (July 1 of Year) |            |            |            |            |            |            |                 |                  |            |            | Growth Rate in Non-Farm Establishments Per Capita |       |       |       |       |       |       |       |
|---------------------------------------|------------|------------|------------|------------|------------|------------|-----------------|------------------|------------|------------|---|-------|-------|-------|-------|-------|-------|-------|
| State                                 | 2004       | 2005       | 2006       | 2007       | 2008       | 2009       | 2010 Pre-Census | 2010 Post-Census | 2011       | 2012       | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  |
| Alabama                               | 4,512,190  | 4,545,049  | 4,597,688  | 4,637,904  | 4,677,464  | 4,708,708  | 4,729,656       | 4,784,762        | 4,803,689  | 4,822,023  | 2.3%  | -0.7% | 1.8%  | 0.7%  | -3.0% | -2.0% | -0.6% | -0.7% |
| Alaska                                | 661,569    | 669,488    | 677,325    | 682,297    | 688,125    | 698,473    | 708,862         | 714,046          | 723,860    | 731,449    | 0.4%  | 0.1%  | 0.2%  | 0.4%  | -2.2% | -1.1% | -0.8% | 0.7%  |
| Arizona                               | 5,759,425  | 5,974,834  | 6,192,100  | 6,362,241  | 6,499,377  | 6,595,778  | 6,676,627       | 6,410,810        | 6,467,315  | 6,553,255  | 1.1%  | 4.9%  | 3.9%  | -0.1% | -6.8% | -6.0% | -1.6% | 1.0%  |
| Arkansas                              | 2,746,161  | 2,776,221  | 2,815,097  | 2,842,194  | 2,867,764  | 2,889,450  | 2,910,236       | 2,922,750        | 2,938,582  | 2,949,131  | 1.9%  | 2.8%  | 1.9%  | 2.4%  | 0.3%  | -1.5% | 0.1%  | -1.0% |
| California                            | 35,558,419 | 35,795,255 | 35,979,208 | 36,226,122 | 36,580,371 | 36,961,664 | 37,266,600      | 37,334,410       | 37,683,933 | 38,041,430 | 0.3%  | 1.6%  | 0.9%  | 0.0%  | -1.9% | -2.2% | -1.2% | 0.3%  |
| Colorado                              | 4,599,681  | 4,660,780  | 4,753,044  | 4,842,259  | 4,935,213  | 5,024,748  | 5,095,309       | 5,048,472        | 5,116,302  | 5,187,582  | 2.5%  | 1.2%  | 0.7%  | -1.6% | -3.2% | -3.9% | -2.6% | -0.6% |
| Connecticut                           | 3,474,610  | 3,477,416  | 3,485,162  | 3,488,633  | 3,502,932  | 3,518,288  | 3,526,937       | 3,576,616        | 3,586,717  | 3,590,347  | 0.8%  | 0.6%  | 0.8%  | 0.3%  | -1.1% | -1.6% | -1.1% | 0.2%  |
| Delaware                              | 826,639    | 839,906    | 853,022    | 864,896    | 876,211    | 885,122    | 891,464         | 899,824          | 908,137    | 917,092    | 3.6%  | -1.5% | 0.5%  | -1.8% | -5.2% | -3.2% | -2.8% | -3.1% |
| Florida                               | 17,375,259 | 17,783,868 | 18,088,505 | 18,277,888 | 18,423,878 | 18,537,969 | 18,678,049      | 18,845,967       | 19,082,262 | 19,317,568 | 4.1%  | 3.6%  | 2.4%  | 2.6%  | -3.6% | -1.9% | -1.8% | 1.1%  |
| Georgia                               | 8,913,676  | 9,097,428  | 9,330,086  | 9,533,761  | 9,697,838  | 9,829,211  | 9,908,357       | 9,714,748        | 9,812,460  | 9,919,945  | 0.9%  | 0.3%  | 1.5%  | 0.7%  | -2.5% | -2.4% | -1.7% | 0.1%  |
| Hawaii                                | 1,252,782  | 1,266,117  | 1,275,599  | 1,276,832  | 1,287,481  | 1,295,178  | 1,300,086       | 1,364,274        | 1,378,129  | 1,392,313  | -0.4%   | 1.2%  | 3.3%  | 1.0%  | 0.2%  | -1.6% | -2.4% | -0.2% |
| Idaho                                 | 1,391,718  | 1,425,862  | 1,464,413  | 1,499,245  | 1,527,506  | 1,545,801  | 1,559,796       | 1,570,784        | 1,583,744  | 1,595,728  | 2.9%  | 3.0%  | 1.9%  | -0.8% | -2.4% | -3.5% | -2.7% | -2.1% |
| Illinois                              | 12,645,295 | 12,674,452 | 12,718,011 | 12,779,417 | 12,842,954 | 12,910,409 | 12,944,410      | 12,840,459       | 12,859,752 | 12,875,255 | 2.4%  | 3.0%  | 2.4%  | 1.2%  | 1.0%  | 0.6%  | 1.4%  | 1.5%  |
| Indiana                               | 6,214,454  | 6,253,120  | 6,301,700  | 6,346,113  | 6,388,309  | 6,423,113  | 6,445,295       | 6,489,856        | 6,516,353  | 6,537,334  | 0.0%  | 0.3%  | 1.0%  | 0.7%  | -1.0% | -1.5% | 0.1%  | 0.4%  |
| Iowa                                  | 2,941,358  | 2,949,450  | 2,964,391  | 2,978,719  | 2,993,987  | 3,007,856  | 3,023,081       | 3,050,321        | 3,064,097  | 3,074,186  | 0.0%  | 0.5%  | 0.3%  | -0.2% | -0.5% | -1.2% | -1.7% | 1.1%  |
| Kansas                                | 2,730,765  | 2,741,771  | 2,755,700  | 2,775,586  | 2,797,375  | 2,818,747  | 2,841,121       | 2,858,837        | 2,870,386  | 2,885,905  | 0.8%  | 0.9%  | -0.6% | 0.7%  | 0.7%  | -0.6% | 1.1%  | -2.2% |
| Kentucky                              | 4,147,970  | 4,182,293  | 4,219,374  | 4,256,278  | 4,287,931  | 4,314,113  | 4,339,435       | 4,346,655        | 4,366,814  | 4,380,415  | 0.0%  | 2.6%  | 2.9%  | -1.3% | -6.1% | -0.1% | -1.7% | -0.9% |
| Louisiana                             | 4,489,327  | 4,497,691  | 4,240,327  | 4,376,122  | 4,451,513  | 4,492,076  | 4,529,426       | 4,544,125        | 4,574,766  | 4,601,893  | 2.9%  | 8.5%  | -3.0% | 0.1%  | 0.9%  | 2.6%  | -3.3% | 0.8%  |
| Maine                                 | 1,308,253  | 1,311,631  | 1,314,963  | 1,317,308  | 1,319,691  | 1,318,301  | 1,312,939       | 1,327,585        | 1,328,544  | 1,329,192  | 0.7%  | 0.0%  | 2.0%  | 1.2%  | -0.5% | -2.5% | 0.6%  | 0.2%  |
| Maryland                              | 5,542,659  | 5,582,520  | 5,612,196  | 5,634,242  | 5,658,655  | 5,699,478  | 5,737,274       | 5,787,998        | 5,839,572  | 5,884,563  | 2.4%  | 1.1%  | 2.3%  | 0.0%  | -2.3% | -1.7% | 0.3%  | -0.6% |
| Massachusetts                         | 6,451,279  | 6,453,031  | 6,466,399  | 6,499,275  | 6,543,595  | 6,593,587  | 6,631,280       | 6,563,259        | 6,607,003  | 6,646,144  | 2.8%  | -4.8% | 0.1%  | -0.3% | -1.6% | 0.3%  | 2.1%  | -1.9% |
| Michigan                              | 10,089,305 | 10,090,554 | 10,082,438 | 10,050,847 | 10,002,486 | 9,969,727  | 9,931,235       | 9,877,670        | 9,876,801  | 9,883,360  | 0.6%  | 0.5%  | 1.0%  | 0.3%  | -1.4% | -2.3% | -2.6% | -1.9% |
| Minnesota                             | 5,079,344  | 5,106,560  | 5,148,346  | 5,191,206  | 5,230,567  | 5,266,214  | 5,290,447       | 5,310,737        | 5,347,299  | 5,379,139  | 2.3%  | 3.1%  | -1.4% | 0.4%  | -2.4% | -2.0% | -0.4% | 1.9%  |
| Mississippi                           | 2,886,006  | 2,900,116  | 2,897,150  | 2,921,723  | 2,940,212  | 2,951,996  | 2,960,467       | 2,969,137        | 2,977,457  | 2,984,926  | 1.9%  | 1.7%  | 1.1%  | 1.0%  | -0.4% | -2.0% | -0.9% | -0.5% |
| Missouri                              | 5,758,444  | 5,806,639  | 5,861,572  | 5,909,824  | 5,956,335  | 5,987,580  | 6,011,741       | 5,996,092        | 6,008,984  | 6,021,988  | 0.2%  | 0.2%  | 0.5%  | -0.4% | -2.3% | -1.7% | -1.3% | 0.3%  |

Table A.2 (Continued)

## Growth Rate of Non-Farm Establishments Per Person 2005-2012

| State          | Population Estimates (July 1 of Year) |            |            |            |            |            |                 |                  |            |            | Growth Rate in Non-Farm Establishments Per Capita |       |       |       |       |       |       |       |
|----------------|---------------------------------------|------------|------------|------------|------------|------------|-----------------|------------------|------------|------------|---|-------|-------|-------|-------|-------|-------|-------|
|                | 2004                                  | 2005       | 2006       | 2007       | 2008       | 2009       | 2010 Pre-Census | 2010 Post-Census | 2011       | 2012       | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  |
| Montana        | 925,887                               | 934,801    | 946,230    | 957,225    | 968,035    | 974,989    | 980,152         | 990,735          | 997,667    | 1,005,141  | -4.8%   | 1.0%  | 2.1%  | 0.9%  | -1.1% | -1.9% | -1.1% | 0.2%  |
| Nebraska       | 1,742,184                             | 1,751,721  | 1,760,435  | 1,769,912  | 1,781,949  | 1,796,619  | 1,811,072       | 1,829,696        | 1,842,234  | 1,855,525  | 1.7%  | 2.0%  | 1.1%  | 0.9%  | -0.2% | -0.9% | -0.2% | 1.5%  |
| Nevada         | 2,328,703                             | 2,408,804  | 2,493,405  | 2,567,752  | 2,615,772  | 2,643,085  | 2,654,751       | 2,703,758        | 2,720,028  | 2,758,931  | 2.3%  | 2.9%  | 2.8%  | 1.3%  | -1.9% | -4.9% | -2.7% | -0.1% |
| New Hampshire  | 1,292,766                             | 1,301,415  | 1,311,894  | 1,317,343  | 1,321,872  | 1,324,575  | 1,323,531       | 1,316,843        | 1,317,807  | 1,320,718  | -0.1%   | 1.3%  | 0.7%  | 0.3%  | -1.1% | -1.5% | -0.5% | 1.4%  |
| New Jersey     | 8,611,530                             | 8,621,837  | 8,623,721  | 8,636,043  | 8,663,398  | 8,707,739  | 8,732,811       | 8,803,388        | 8,834,773  | 8,864,590  | 2.3%  | 0.9%  | -0.5% | -0.2% | -3.0% | -0.1% | -0.8% | -2.2% |
| New Mexico     | 1,891,829                             | 1,916,538  | 1,942,608  | 1,968,731  | 1,986,763  | 2,009,671  | 2,033,875       | 2,064,767        | 2,078,674  | 2,085,538  | -0.3%   | 1.9%  | 1.3%  | 0.9%  | -1.4% | -0.6% | 0.7%  | 0.2%  |
| New York       | 19,297,933                            | 19,330,891 | 19,356,564 | 19,422,777 | 19,467,789 | 19,541,453 | 19,577,730      | 19,399,242       | 19,501,616 | 19,570,261 | 1.2%  | 1.4%  | 0.8%  | 0.9%  | 0.0%  | 0.2%  | 0.8%  | 1.2%  |
| North Carolina | 8,531,283                             | 8,669,452  | 8,866,977  | 9,064,074  | 9,247,134  | 9,380,884  | 9,458,888       | 9,559,048        | 9,651,103  | 9,752,073  | 0.4%  | 1.5%  | 2.0%  | 0.8%  | -2.5% | -2.3% | -0.1% | 0.5%  |
| North Dakota   | 636,303                               | 635,365    | 636,771    | 638,202    | 641,421    | 646,844    | 653,778         | 674,363          | 684,740    | 699,628    | 2.5%  | 1.2%  | -1.6% | 1.6%  | 0.0%  | 0.1%  | 2.5%  | 5.2%  |
| Ohio           | 11,464,593                            | 11,475,262 | 11,492,495 | 11,520,815 | 11,528,072 | 11,542,645 | 11,532,111      | 11,538,290       | 11,541,007 | 11,544,225 | 0.6%  | 0.2%  | 0.3%  | 0.9%  | -1.4% | -1.7% | 0.6%  | 0.1%  |
| Oklahoma       | 3,514,449                             | 3,532,769  | 3,574,334  | 3,612,186  | 3,644,025  | 3,687,050  | 3,724,447       | 3,759,482        | 3,784,163  | 3,814,820  | 2.0%  | 1.1%  | 1.7%  | 1.3%  | -1.0% | 0.1%  | -0.2% | 0.9%  |
| Oregon         | 3,573,505                             | 3,617,869  | 3,677,545  | 3,732,957  | 3,782,991  | 3,825,657  | 3,855,536       | 3,838,212        | 3,868,229  | 3,899,353  | 1.5%  | 2.7%  | 1.5%  | -2.4% | -3.2% | -1.6% | -0.2% | 1.9%  |
| Pennsylvania   | 12,388,368                            | 12,418,161 | 12,471,142 | 12,522,531 | 12,566,368 | 12,604,767 | 12,632,780      | 12,711,308       | 12,743,948 | 12,763,536 | 1.4%  | 0.7%  | 1.9%  | 0.7%  | -0.4% | -0.6% | 1.2%  | 1.5%  |
| Rhode Island   | 1,071,414                             | 1,064,989  | 1,060,196  | 1,055,009  | 1,053,502  | 1,053,209  | 1,056,870       | 1,052,769        | 1,050,646  | 1,050,292  | 2.5%  | 1.2%  | 0.8%  | -0.9% | -1.5% | -1.9% | -0.4% | 0.8%  |
| South Carolina | 4,201,306                             | 4,256,199  | 4,339,399  | 4,424,232  | 4,503,280  | 4,561,242  | 4,596,958       | 4,635,835        | 4,673,348  | 4,723,723  | 4.6%  | 4.6%  | -5.1% | -4.3% | -4.4% | -4.4% | -1.4% | -0.6% |
| South Dakota   | 774,283                               | 780,084    | 788,519    | 797,035    | 804,532    | 812,383    | 820,077         | 816,223          | 823,593    | 833,354    | 1.7%  | 0.9%  | 0.5%  | 0.2%  | 0.1%  | -0.6% | -0.3% | -0.1% |
| Tennessee      | 5,916,762                             | 5,995,748  | 6,089,453  | 6,172,862  | 6,240,456  | 6,296,254  | 6,338,112       | 6,356,673        | 6,399,787  | 6,456,243  | 0.4%  | 1.5%  | 2.2%  | 1.2%  | -2.0% | -2.4% | -1.5% | 0.3%  |
| Texas          | 22,418,319                            | 22,801,920 | 23,369,024 | 23,837,701 | 24,304,290 | 24,782,302 | 25,213,445      | 25,242,683       | 25,631,778 | 26,059,203 | 0.4%  | -0.1% | 3.1%  | -1.2% | -2.1% | -1.3% | -0.1% | 0.4%  |
| Utah           | 2,438,915                             | 2,499,637  | 2,583,724  | 2,663,796  | 2,727,343  | 2,784,572  | 2,830,753       | 2,775,093        | 2,814,347  | 2,855,287  | 4.4%  | 2.4%  | -0.8% | -1.7% | -4.1% | -4.6% | -1.3% | 0.2%  |
| Vermont        | 618,145                               | 618,814    | 619,985    | 620,460    | 621,049    | 621,760    | 622,433         | 625,916          | 626,592    | 626,011    | 1.3%  | 0.7%  | 1.0%  | 0.5%  | -1.1% | -2.1% | -0.4% | 1.2%  |
| Virginia       | 7,468,914                             | 7,563,887  | 7,646,996  | 7,719,749  | 7,795,424  | 7,882,590  | 7,952,119       | 8,025,105        | 8,104,384  | 8,185,867  | 2.1%  | 1.1%  | 4.2%  | 0.4%  | -0.6% | -1.0% | -0.1% | 1.5%  |
| Washington     | 6,184,289                             | 6,261,282  | 6,372,243  | 6,464,979  | 6,566,073  | 6,664,195  | 6,746,199       | 6,743,636        | 6,823,267  | 6,897,012  | 0.9%  | 1.1%  | 1.3%  | -0.1% | -1.6% | -3.2% | -1.5% | -1.5% |
| West Virginia  | 1,803,302                             | 1,803,920  | 1,807,237  | 1,811,198  | 1,814,873  | 1,819,777  | 1,825,513       | 1,854,019        | 1,854,908  | 1,855,413  | 0.8%  | 0.2%  | 0.4%  | -0.4% | -1.5% | -1.0% | -0.2% | 1.2%  |
| Wisconsin      | 5,511,385                             | 5,541,443  | 5,571,680  | 5,601,571  | 5,627,610  | 5,654,774  | 5,668,519       | 5,689,591        | 5,709,843  | 5,726,398  | 1.3%  | 0.6%  | -2.7% | 0.6%  | -3.2% | -1.8% | 0.1%  | 1.0%  |
| Wyoming        | 502,988                               | 506,242    | 512,841    | 523,414    | 532,981    | 544,270    | 547,637         | 564,367          | 567,356    | 576,412    | 2.5%  | 2.4%  | 0.4%  | 0.8%  | -1.3% | -1.1% | -0.5% | -0.4% |

Sources: U.S. Departments of Labor and Commerce

Note: For consistency in comparison, 2010 growth rate estimates were calculated utilizing pre-Census population estimates for 2010

Table A.3

## Establishments Births and Establishment Births Per Person 2005-2012

| State         | Establishment Births |         |         |        |        |        |        |        | Establishment Births Per Person |         |         |         |         |         |         |         |
|---------------|----------------------|---------|---------|--------|--------|--------|--------|--------|---------------------------------|---------|---------|---------|---------|---------|---------|---------|
|               | 2005                 | 2006    | 2007    | 2008   | 2009   | 2010   | 2011   | 2012   | 2005                            | 2006    | 2007    | 2008    | 2009    | 2010    | 2011    | 2012    |
| Alabama       | 10,640               | 10,579  | 10,926  | 10,110 | 8,133  | 8,766  | 9,119  | 9,079  | 0.00234                         | 0.00230 | 0.00236 | 0.00216 | 0.00173 | 0.00183 | 0.00190 | 0.00188 |
| Alaska        | 2,072                | 1,967   | 1,957   | 1,999  | 1,876  | 1,863  | 1,891  | 1,972  | 0.00309                         | 0.00290 | 0.00287 | 0.00290 | 0.00269 | 0.00261 | 0.00261 | 0.00270 |
| Arizona       | 18,921               | 21,060  | 18,645  | 16,978 | 15,804 | 14,865 | 15,005 | 15,091 | 0.00317                         | 0.00340 | 0.00293 | 0.00261 | 0.00240 | 0.00232 | 0.00232 | 0.00230 |
| Arkansas      | 7,649                | 9,592   | 7,802   | 8,658  | 6,946  | 7,520  | 7,655  | 7,351  | 0.00276                         | 0.00341 | 0.00275 | 0.00302 | 0.00240 | 0.00257 | 0.00260 | 0.00249 |
| California    | 103,200              | 103,037 | 100,593 | 95,999 | 81,095 | 87,347 | 91,869 | 93,131 | 0.00288                         | 0.00286 | 0.00278 | 0.00262 | 0.00219 | 0.00234 | 0.00244 | 0.00245 |
| Colorado      | 21,132               | 21,118  | 21,283  | 20,443 | 17,087 | 16,740 | 17,649 | 18,281 | 0.00453                         | 0.00444 | 0.00440 | 0.00414 | 0.00340 | 0.00332 | 0.00345 | 0.00352 |
| Connecticut   | 8,453                | 8,907   | 8,734   | 8,295  | 6,918  | 7,296  | 7,881  | 7,854  | 0.00243                         | 0.00256 | 0.00250 | 0.00237 | 0.00197 | 0.00204 | 0.00220 | 0.00219 |
| Delaware      | 2,930                | 3,383   | 2,955   | 2,986  | 2,370  | 2,690  | 2,776  | 2,693  | 0.00349                         | 0.00397 | 0.00342 | 0.00341 | 0.00268 | 0.00299 | 0.00306 | 0.00294 |
| Florida       | 84,374               | 84,380  | 80,907  | 73,480 | 65,036 | 66,736 | 70,267 | 70,901 | 0.00474                         | 0.00466 | 0.00443 | 0.00399 | 0.00351 | 0.00354 | 0.00368 | 0.00367 |
| Georgia       | 30,719               | 29,882  | 30,017  | 28,920 | 23,850 | 25,199 | 25,561 | 26,167 | 0.00338                         | 0.00320 | 0.00315 | 0.00298 | 0.00243 | 0.00259 | 0.00260 | 0.00264 |
| Hawaii        | 3,276                | 3,303   | 3,283   | 3,158  | 2,623  | 2,899  | 3,019  | 2,877  | 0.00259                         | 0.00259 | 0.00257 | 0.00245 | 0.00203 | 0.00212 | 0.00219 | 0.00207 |
| Idaho         | 6,577                | 7,121   | 6,440   | 5,709  | 4,624  | 4,822  | 4,945  | 5,105  | 0.00461                         | 0.00486 | 0.00430 | 0.00374 | 0.00299 | 0.00307 | 0.00312 | 0.00320 |
| Illinois      | 32,120               | 32,041  | 29,171  | 30,053 | 26,981 | 27,724 | 30,217 | 28,449 | 0.00253                         | 0.00252 | 0.00228 | 0.00234 | 0.00209 | 0.00216 | 0.00235 | 0.00221 |
| Indiana       | 14,127               | 13,266  | 13,551  | 13,248 | 10,660 | 11,284 | 13,819 | 12,085 | 0.00226                         | 0.00211 | 0.00214 | 0.00207 | 0.00166 | 0.00174 | 0.00212 | 0.00185 |
| Iowa          | 7,116                | 7,109   | 6,973   | 6,688  | 5,903  | 4,723  | 6,249  | 7,516  | 0.00241                         | 0.00240 | 0.00234 | 0.00223 | 0.00196 | 0.00155 | 0.00204 | 0.00244 |
| Kansas        | 7,223                | 7,322   | 7,138   | 7,363  | 6,759  | 6,015  | 7,121  | 7,008  | 0.00263                         | 0.00266 | 0.00257 | 0.00263 | 0.00240 | 0.00210 | 0.00248 | 0.00243 |
| Kentucky      | 9,304                | 8,334   | 9,522   | 8,845  | 7,344  | 7,599  | 7,984  | 8,325  | 0.00222                         | 0.00198 | 0.00224 | 0.00206 | 0.00170 | 0.00175 | 0.00183 | 0.00190 |
| Louisiana     | 10,132               | 11,495  | 11,894  | 10,676 | 9,489  | 9,482  | 10,156 | 9,721  | 0.00225                         | 0.00271 | 0.00272 | 0.00240 | 0.00211 | 0.00209 | 0.00222 | 0.00211 |
| Maine         | 4,322                | 4,445   | 4,240   | 4,132  | 3,784  | 3,788  | 3,914  | 3,694  | 0.00330                         | 0.00338 | 0.00322 | 0.00313 | 0.00287 | 0.00285 | 0.00295 | 0.00278 |
| Maryland      | 17,056               | 16,344  | 15,196  | 15,403 | 13,783 | 13,912 | 14,467 | 15,093 | 0.00306                         | 0.00291 | 0.00270 | 0.00272 | 0.00242 | 0.00240 | 0.00248 | 0.00256 |
| Massachusetts | 17,938               | 16,493  | 16,414  | 15,334 | 13,257 | 14,020 | 16,348 | 15,153 | 0.00278                         | 0.00255 | 0.00253 | 0.00234 | 0.00201 | 0.00214 | 0.00247 | 0.00228 |
| Michigan      | 23,751               | 21,513  | 20,974  | 20,327 | 19,425 | 17,871 | 19,391 | 17,975 | 0.00235                         | 0.00213 | 0.00209 | 0.00203 | 0.00195 | 0.00181 | 0.00196 | 0.00182 |
| Minnesota     | 11,549               | 14,222  | 16,520  | 12,505 | 12,058 | 10,391 | 15,105 | 12,424 | 0.00226                         | 0.00276 | 0.00318 | 0.00239 | 0.00229 | 0.00196 | 0.00282 | 0.00231 |
| Mississippi   | 5,956                | 6,902   | 6,685   | 5,914  | 4,944  | 5,281  | 5,428  | 5,095  | 0.00205                         | 0.00238 | 0.00229 | 0.00201 | 0.00167 | 0.00178 | 0.00182 | 0.00171 |
| Missouri      | 14,796               | 15,200  | 14,545  | 12,222 | 12,832 | 11,729 | 12,488 | 12,914 | 0.00255                         | 0.00259 | 0.00246 | 0.00205 | 0.00214 | 0.00196 | 0.00208 | 0.00214 |

Table A.3 (Continued)

## Establishments Births and Establishment Births Per Person 2005-2012

| State          | Establishment Births |        |        |        |        |        |        |        | Establishment Births Per Person |         |         |         |         |         |         |         |
|----------------|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------------------------|---------|---------|---------|---------|---------|---------|---------|
|                | 2005                 | 2006   | 2007   | 2008   | 2009   | 2010   | 2011   | 2012   | 2005                            | 2006    | 2007    | 2008    | 2009    | 2010    | 2011    | 2012    |
| Montana        | 4,283                | 4,316  | 4,246  | 3,789  | 3,373  | 3,232  | 3,599  | 3,868  | 0.00458                         | 0.00456 | 0.00444 | 0.00391 | 0.00346 | 0.00326 | 0.00361 | 0.00385 |
| Nebraska       | 4,870                | 4,758  | 4,709  | 4,818  | 4,237  | 4,317  | 4,634  | 4,749  | 0.00278                         | 0.00270 | 0.00266 | 0.00270 | 0.00236 | 0.00236 | 0.00252 | 0.00256 |
| Nevada         | 9,849                | 9,787  | 9,699  | 9,089  | 7,497  | 7,640  | 7,921  | 8,177  | 0.00409                         | 0.00393 | 0.00378 | 0.00347 | 0.00284 | 0.00283 | 0.00291 | 0.00296 |
| New Hampshire  | 4,846                | 5,017  | 4,660  | 4,696  | 3,888  | 4,246  | 4,404  | 4,341  | 0.00372                         | 0.00382 | 0.00354 | 0.00355 | 0.00294 | 0.00322 | 0.00334 | 0.00329 |
| New Jersey     | 31,145               | 30,378 | 28,961 | 27,534 | 24,080 | 23,965 | 25,998 | 25,484 | 0.00361                         | 0.00352 | 0.00335 | 0.00318 | 0.00277 | 0.00272 | 0.00294 | 0.00287 |
| New Mexico     | 5,593                | 5,970  | 5,889  | 5,657  | 4,767  | 4,770  | 4,844  | 4,893  | 0.00292                         | 0.00307 | 0.00299 | 0.00285 | 0.00237 | 0.00231 | 0.00233 | 0.00235 |
| New York       | 54,961               | 55,655 | 55,176 | 53,341 | 49,145 | 52,559 | 57,120 | 55,744 | 0.00284                         | 0.00288 | 0.00284 | 0.00274 | 0.00251 | 0.00271 | 0.00293 | 0.00285 |
| North Carolina | 21,536               | 24,600 | 32,851 | 24,823 | 20,370 | 21,765 | 24,208 | 23,011 | 0.00248                         | 0.00277 | 0.00362 | 0.00268 | 0.00217 | 0.00228 | 0.00251 | 0.00236 |
| North Dakota   | 1,903                | 2,065  | 2,043  | 2,027  | 1,747  | 2,079  | 2,906  | 3,687  | 0.00300                         | 0.00324 | 0.00320 | 0.00316 | 0.00270 | 0.00308 | 0.00424 | 0.00527 |
| Ohio           | 23,264               | 22,121 | 23,091 | 21,062 | 17,638 | 18,366 | 21,365 | 20,847 | 0.00203                         | 0.00192 | 0.00200 | 0.00183 | 0.00153 | 0.00159 | 0.00185 | 0.00181 |
| Oklahoma       | 9,025                | 10,215 | 9,594  | 9,011  | 8,411  | 8,955  | 8,760  | 8,445  | 0.00255                         | 0.00286 | 0.00266 | 0.00247 | 0.00228 | 0.00238 | 0.00231 | 0.00221 |
| Oregon         | 12,810               | 13,240 | 13,005 | 12,176 | 10,489 | 11,549 | 11,699 | 11,098 | 0.00354                         | 0.00360 | 0.00348 | 0.00322 | 0.00274 | 0.00301 | 0.00302 | 0.00285 |
| Pennsylvania   | 32,141               | 33,079 | 28,332 | 28,956 | 26,281 | 27,174 | 26,357 | 33,411 | 0.00259                         | 0.00265 | 0.00226 | 0.00230 | 0.00209 | 0.00214 | 0.00207 | 0.00262 |
| Rhode Island   | 3,674                | 3,410  | 3,361  | 3,184  | 2,768  | 3,031  | 3,201  | 3,347  | 0.00345                         | 0.00322 | 0.00319 | 0.00302 | 0.00263 | 0.00288 | 0.00305 | 0.00319 |
| South Carolina | 10,972               | 12,607 | 12,156 | 11,068 | 9,087  | 9,178  | 10,109 | 9,479  | 0.00258                         | 0.00291 | 0.00275 | 0.00246 | 0.00199 | 0.00198 | 0.00216 | 0.00201 |
| South Dakota   | 2,442                | 2,451  | 2,234  | 2,328  | 2,126  | 2,213  | 2,319  | 2,289  | 0.00313                         | 0.00311 | 0.00280 | 0.00289 | 0.00262 | 0.00271 | 0.00282 | 0.00275 |
| Tennessee      | 13,946               | 14,086 | 14,101 | 13,507 | 10,984 | 11,770 | 12,143 | 12,078 | 0.00233                         | 0.00231 | 0.00228 | 0.00216 | 0.00174 | 0.00185 | 0.00190 | 0.00187 |
| Texas          | 54,747               | 57,856 | 56,419 | 57,223 | 50,346 | 51,660 | 55,782 | 55,660 | 0.00240                         | 0.00248 | 0.00237 | 0.00235 | 0.00203 | 0.00205 | 0.00218 | 0.00214 |
| Utah           | 11,163               | 11,947 | 11,776 | 10,151 | 8,663  | 8,599  | 9,359  | 9,613  | 0.00447                         | 0.00462 | 0.00442 | 0.00372 | 0.00311 | 0.00310 | 0.00333 | 0.00337 |
| Vermont        | 1,769                | 1,895  | 1,927  | 1,903  | 1,689  | 1,714  | 1,829  | 1,870  | 0.00286                         | 0.00306 | 0.00311 | 0.00306 | 0.00272 | 0.00274 | 0.00292 | 0.00299 |
| Virginia       | 22,357               | 22,123 | 25,410 | 23,788 | 22,011 | 22,218 | 23,350 | 24,775 | 0.00296                         | 0.00289 | 0.00329 | 0.00305 | 0.00279 | 0.00277 | 0.00288 | 0.00303 |
| Washington     | 18,183               | 18,632 | 18,421 | 18,377 | 15,080 | 15,162 | 16,340 | 16,656 | 0.00290                         | 0.00292 | 0.00285 | 0.00280 | 0.00226 | 0.00225 | 0.00239 | 0.00241 |
| West Virginia  | 4,036                | 4,007  | 3,724  | 3,535  | 3,202  | 3,276  | 3,604  | 3,365  | 0.00224                         | 0.00222 | 0.00206 | 0.00195 | 0.00176 | 0.00177 | 0.00194 | 0.00181 |
| Wisconsin      | 11,706               | 12,321 | 10,992 | 10,986 | 9,056  | 9,678  | 10,874 | 11,609 | 0.00211                         | 0.00221 | 0.00196 | 0.00195 | 0.00160 | 0.00170 | 0.00190 | 0.00203 |
| Wyoming        | 2,406                | 2,617  | 2,591  | 2,521  | 2,055  | 2,231  | 2,212  | 2,095  | 0.00475                         | 0.00510 | 0.00495 | 0.00473 | 0.00378 | 0.00395 | 0.00390 | 0.00363 |

Sources: U.S. Departments of Labor and Commerce

Table A.4  
 Patents and Patents Per Thousand Persons 2005-2012

| State         | Patents |        |        |        |        |        |        |        | Patents Per Thousand Persons |        |        |        |        |        |        |        |
|---------------|---------|--------|--------|--------|--------|--------|--------|--------|------------------------------|--------|--------|--------|--------|--------|--------|--------|
|               | 2005    | 2006   | 2007   | 2008   | 2009   | 2010   | 2011   | 2012   | 2005                         | 2006   | 2007   | 2008   | 2009   | 2010   | 2011   | 2012   |
| Alabama       | 359     | 429    | 358    | 354    | 377    | 538    | 416    | 478    | 0.0790                       | 0.0933 | 0.0772 | 0.0757 | 0.0801 | 0.1124 | 0.0866 | 0.0991 |
| Alaska        | 36      | 45     | 24     | 28     | 55     | 33     | 32     | 46     | 0.0538                       | 0.0664 | 0.0352 | 0.0407 | 0.0787 | 0.0462 | 0.0442 | 0.0629 |
| Arizona       | 1,598   | 1,893  | 1,826  | 1,892  | 1,759  | 2,169  | 2,248  | 2,370  | 0.2675                       | 0.3057 | 0.2870 | 0.2911 | 0.2667 | 0.3383 | 0.3476 | 0.3617 |
| Arkansas      | 153     | 185    | 169    | 152    | 154    | 216    | 188    | 238    | 0.0551                       | 0.0657 | 0.0595 | 0.0530 | 0.0533 | 0.0739 | 0.0640 | 0.0807 |
| California    | 19,656  | 25,039 | 22,594 | 22,200 | 23,354 | 30,076 | 30,748 | 34,659 | 0.5491                       | 0.6959 | 0.6237 | 0.6069 | 0.6318 | 0.8056 | 0.8159 | 0.9111 |
| Colorado      | 1,972   | 2,349  | 1,983  | 1,868  | 1,968  | 2,435  | 2,397  | 2,744  | 0.4231                       | 0.4942 | 0.4095 | 0.3785 | 0.3917 | 0.4823 | 0.4685 | 0.5290 |
| Connecticut   | 1,677   | 1,857  | 1,611  | 1,595  | 1,661  | 2,111  | 2,121  | 2,297  | 0.4823                       | 0.5328 | 0.4618 | 0.4553 | 0.4721 | 0.5902 | 0.5913 | 0.6398 |
| Delaware      | 341     | 396    | 359    | 353    | 342    | 391    | 457    | 485    | 0.4060                       | 0.4642 | 0.4151 | 0.4029 | 0.3864 | 0.4345 | 0.5032 | 0.5288 |
| Florida       | 2,707   | 3,261  | 3,092  | 2,808  | 2,899  | 3,723  | 3,841  | 4,453  | 0.1522                       | 0.1803 | 0.1692 | 0.1524 | 0.1564 | 0.1975 | 0.2013 | 0.2305 |
| Georgia       | 1,358   | 1,719  | 1,580  | 1,585  | 1,666  | 2,194  | 2,206  | 2,501  | 0.1493                       | 0.1842 | 0.1657 | 0.1634 | 0.1695 | 0.2258 | 0.2248 | 0.2521 |
| Hawaii        | 58      | 101    | 82     | 101    | 96     | 144    | 128    | 131    | 0.0458                       | 0.0792 | 0.0642 | 0.0784 | 0.0741 | 0.1056 | 0.0929 | 0.0941 |
| Idaho         | 1,549   | 1,717  | 1,388  | 1,207  | 985    | 1,162  | 1,089  | 979    | 1.0864                       | 1.1725 | 0.9258 | 0.7902 | 0.6372 | 0.7398 | 0.6876 | 0.6135 |
| Illinois      | 3,297   | 4,053  | 3,711  | 3,580  | 3,615  | 4,374  | 4,594  | 5,078  | 0.2601                       | 0.3187 | 0.2904 | 0.2788 | 0.2800 | 0.3406 | 0.3572 | 0.3944 |
| Indiana       | 1,246   | 1,499  | 1,381  | 1,195  | 1,246  | 1,697  | 1,633  | 1,963  | 0.1993                       | 0.2379 | 0.2176 | 0.1871 | 0.1940 | 0.2615 | 0.2506 | 0.3003 |
| Iowa          | 629     | 732    | 664    | 644    | 730    | 809    | 856    | 914    | 0.2133                       | 0.2469 | 0.2229 | 0.2151 | 0.2427 | 0.2652 | 0.2794 | 0.2973 |
| Kansas        | 455     | 581    | 523    | 543    | 509    | 728    | 805    | 1,100  | 0.1660                       | 0.2108 | 0.1884 | 0.1941 | 0.1806 | 0.2546 | 0.2805 | 0.3812 |
| Kentucky      | 377     | 471    | 505    | 469    | 457    | 601    | 551    | 620    | 0.0901                       | 0.1116 | 0.1186 | 0.1094 | 0.1059 | 0.1383 | 0.1262 | 0.1415 |
| Louisiana     | 298     | 365    | 294    | 322    | 315    | 355    | 368    | 445    | 0.0663                       | 0.0861 | 0.0672 | 0.0723 | 0.0701 | 0.0781 | 0.0804 | 0.0967 |
| Maine         | 159     | 156    | 126    | 136    | 130    | 220    | 202    | 222    | 0.1212                       | 0.1186 | 0.0956 | 0.1031 | 0.0986 | 0.1657 | 0.1520 | 0.1670 |
| Maryland      | 1,283   | 1,556  | 1,408  | 1,427  | 1,445  | 1,731  | 1,638  | 1,715  | 0.2298                       | 0.2773 | 0.2499 | 0.2522 | 0.2535 | 0.2991 | 0.2805 | 0.2914 |
| Massachusetts | 3,301   | 4,368  | 3,835  | 3,896  | 4,038  | 5,260  | 5,526  | 6,119  | 0.5115                       | 0.6755 | 0.5901 | 0.5954 | 0.6124 | 0.8014 | 0.8364 | 0.9207 |
| Michigan      | 3,664   | 4,178  | 3,695  | 3,583  | 3,516  | 4,277  | 4,397  | 4,997  | 0.3631                       | 0.4144 | 0.3676 | 0.3582 | 0.3527 | 0.4330 | 0.4452 | 0.5056 |
| Minnesota     | 2,582   | 3,268  | 2,920  | 2,869  | 2,972  | 4,005  | 4,227  | 4,278  | 0.5056                       | 0.6348 | 0.5625 | 0.5485 | 0.5644 | 0.7541 | 0.7905 | 0.7953 |
| Mississippi   | 127     | 152    | 184    | 142    | 144    | 172    | 172    | 161    | 0.0438                       | 0.0525 | 0.0630 | 0.0483 | 0.0488 | 0.0579 | 0.0578 | 0.0539 |
| Missouri      | 732     | 863    | 861    | 786    | 877    | 1,140  | 1,003  | 1,165  | 0.1261                       | 0.1472 | 0.1457 | 0.1320 | 0.1465 | 0.1901 | 0.1669 | 0.1935 |



Table A.4 (Continued)

## Patents and Patents Per Thousand Persons 2005-2012

| State          | Patents |       |       |       |       |       |       |       | Patents Per Thousand Persons |        |        |        |        |        |        |        |
|----------------|---------|-------|-------|-------|-------|-------|-------|-------|------------------------------|--------|--------|--------|--------|--------|--------|--------|
|                | 2005    | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2005                         | 2006   | 2007   | 2008   | 2009   | 2010   | 2011   | 2012   |
| Montana        | 119     | 136   | 131   | 115   | 91    | 118   | 114   | 133   | 0.1273                       | 0.1437 | 0.1369 | 0.1188 | 0.0933 | 0.1191 | 0.1143 | 0.1323 |
| Nebraska       | 205     | 239   | 254   | 214   | 226   | 253   | 247   | 336   | 0.1170                       | 0.1358 | 0.1435 | 0.1201 | 0.1258 | 0.1383 | 0.1341 | 0.1811 |
| Nevada         | 443     | 472   | 468   | 464   | 426   | 639   | 674   | 882   | 0.1839                       | 0.1893 | 0.1823 | 0.1774 | 0.1612 | 0.2363 | 0.2478 | 0.3197 |
| New Hampshire  | 538     | 657   | 618   | 526   | 608   | 802   | 805   | 791   | 0.4134                       | 0.5008 | 0.4691 | 0.3979 | 0.4590 | 0.6090 | 0.6109 | 0.5989 |
| New Jersey     | 2,868   | 3,627 | 3,152 | 3,247 | 3,259 | 4,345 | 4,277 | 4,656 | 0.3326                       | 0.4206 | 0.3650 | 0.3748 | 0.3743 | 0.4936 | 0.4841 | 0.5252 |
| New Mexico     | 272     | 354   | 304   | 295   | 329   | 455   | 412   | 444   | 0.1419                       | 0.1822 | 0.1544 | 0.1485 | 0.1637 | 0.2204 | 0.1982 | 0.2129 |
| New York       | 5,306   | 6,406 | 6,025 | 5,905 | 6,127 | 8,095 | 7,842 | 8,557 | 0.2745                       | 0.3309 | 0.3102 | 0.3033 | 0.3135 | 0.4173 | 0.4021 | 0.4372 |
| North Carolina | 1,839   | 2,232 | 2,007 | 2,157 | 2,298 | 2,922 | 2,884 | 3,252 | 0.2121                       | 0.2517 | 0.2214 | 0.2333 | 0.2450 | 0.3057 | 0.2988 | 0.3335 |
| North Dakota   | 81      | 77    | 92    | 72    | 92    | 112   | 95    | 98    | 0.1275                       | 0.1209 | 0.1442 | 0.1123 | 0.1422 | 0.1661 | 0.1387 | 0.1401 |
| Ohio           | 2,727   | 3,291 | 3,058 | 3,153 | 3,023 | 3,983 | 3,903 | 4,110 | 0.2376                       | 0.2864 | 0.2654 | 0.2735 | 0.2619 | 0.3452 | 0.3382 | 0.3560 |
| Oklahoma       | 429     | 584   | 526   | 474   | 446   | 582   | 529   | 521   | 0.1214                       | 0.1634 | 0.1456 | 0.1301 | 0.1210 | 0.1548 | 0.1398 | 0.1366 |
| Oregon         | 1,849   | 2,536 | 2,282 | 2,173 | 2,014 | 2,340 | 2,371 | 2,462 | 0.5111                       | 0.6896 | 0.6113 | 0.5744 | 0.5264 | 0.6097 | 0.6129 | 0.6314 |
| Pennsylvania   | 2,546   | 3,186 | 2,986 | 2,850 | 3,066 | 3,887 | 3,652 | 3,894 | 0.2050                       | 0.2555 | 0.2385 | 0.2268 | 0.2432 | 0.3058 | 0.2866 | 0.3051 |
| Rhode Island   | 312     | 354   | 380   | 303   | 305   | 354   | 351   | 415   | 0.2930                       | 0.3339 | 0.3602 | 0.2876 | 0.2896 | 0.3363 | 0.3341 | 0.3951 |
| South Carolina | 539     | 691   | 542   | 524   | 579   | 651   | 793   | 978   | 0.1266                       | 0.1592 | 0.1225 | 0.1164 | 0.1269 | 0.1404 | 0.1697 | 0.2070 |
| South Dakota   | 68      | 79    | 66    | 60    | 56    | 82    | 106   | 129   | 0.0872                       | 0.1002 | 0.0828 | 0.0746 | 0.0689 | 0.1005 | 0.1287 | 0.1548 |
| Tennessee      | 712     | 817   | 793   | 798   | 785   | 1,037 | 1,080 | 1,065 | 0.1188                       | 0.1342 | 0.1285 | 0.1279 | 0.1247 | 0.1631 | 0.1688 | 0.1650 |
| Texas          | 5,524   | 6,716 | 6,228 | 6,184 | 6,436 | 8,026 | 8,044 | 8,929 | 0.2423                       | 0.2874 | 0.2613 | 0.2544 | 0.2597 | 0.3180 | 0.3138 | 0.3426 |
| Utah           | 644     | 800   | 766   | 727   | 855   | 1,145 | 1,215 | 1,327 | 0.2576                       | 0.3096 | 0.2876 | 0.2666 | 0.3070 | 0.4126 | 0.4317 | 0.4648 |
| Vermont        | 411     | 486   | 546   | 514   | 500   | 668   | 536   | 506   | 0.6642                       | 0.7839 | 0.8800 | 0.8276 | 0.8042 | 1.0672 | 0.8554 | 0.8083 |
| Virginia       | 1,027   | 1,231 | 1,162 | 1,180 | 1,209 | 1,724 | 1,737 | 1,813 | 0.1358                       | 0.1610 | 0.1505 | 0.1514 | 0.1534 | 0.2148 | 0.2143 | 0.2215 |
| Washington     | 2,482   | 3,620 | 3,894 | 4,158 | 4,856 | 5,809 | 5,266 | 5,985 | 0.3964                       | 0.5681 | 0.6023 | 0.6333 | 0.7287 | 0.8614 | 0.7718 | 0.8678 |
| West Virginia  | 98      | 111   | 116   | 91    | 102   | 134   | 109   | 142   | 0.0543                       | 0.0614 | 0.0640 | 0.0501 | 0.0561 | 0.0723 | 0.0588 | 0.0765 |
| Wisconsin      | 1,756   | 2,150 | 1,927 | 1,921 | 1,887 | 2,232 | 2,154 | 2,289 | 0.3169                       | 0.3859 | 0.3440 | 0.3414 | 0.3337 | 0.3923 | 0.3772 | 0.3997 |
| Wyoming        | 55      | 56    | 62    | 41    | 64    | 89    | 74    | 125   | 0.1086                       | 0.1092 | 0.1185 | 0.0769 | 0.1176 | 0.1577 | 0.1304 | 0.2169 |

Source: U.S. Patent and Trademark Office

Table A.5

## Income Per Non-Farm Proprietor

| State         | 2005     | 2006     | 2007     | 2008     | 2009     | 2010     | 2011     | 2012*    |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Alabama       | \$26,369 | \$27,173 | \$24,319 | \$23,574 | \$21,661 | \$24,706 | \$25,230 | \$26,683 |
| Alaska        | \$32,033 | \$33,548 | \$30,269 | \$29,184 | \$28,627 | \$32,674 | \$33,325 | \$35,679 |
| Arizona       | \$28,902 | \$29,962 | \$26,397 | \$25,412 | \$22,056 | \$24,320 | \$24,693 | \$25,768 |
| Arkansas      | \$25,419 | \$26,431 | \$22,944 | \$23,146 | \$20,816 | \$23,121 | \$23,856 | \$24,857 |
| California    | \$38,939 | \$40,455 | \$35,117 | \$33,020 | \$28,891 | \$30,358 | \$31,003 | \$32,485 |
| Colorado      | \$37,206 | \$39,115 | \$32,709 | \$32,070 | \$27,043 | \$31,393 | \$32,342 | \$33,041 |
| Connecticut   | \$43,204 | \$45,896 | \$40,877 | \$37,044 | \$36,088 | \$41,527 | \$42,033 | \$43,187 |
| Delaware      | \$30,115 | \$31,203 | \$27,968 | \$26,749 | \$24,032 | \$28,401 | \$28,935 | \$29,414 |
| Florida       | \$22,400 | \$22,842 | \$20,447 | \$18,980 | \$17,212 | \$19,692 | \$19,940 | \$20,637 |
| Georgia       | \$27,044 | \$26,933 | \$24,863 | \$22,842 | \$20,440 | \$22,367 | \$22,669 | \$23,498 |
| Hawaii        | \$24,982 | \$25,982 | \$23,133 | \$21,931 | \$19,941 | \$22,522 | \$22,877 | \$23,860 |
| Idaho         | \$24,857 | \$25,371 | \$22,997 | \$22,672 | \$20,646 | \$22,946 | \$23,411 | \$24,698 |
| Illinois      | \$35,482 | \$36,939 | \$32,008 | \$29,988 | \$26,512 | \$30,162 | \$30,509 | \$31,351 |
| Indiana       | \$28,221 | \$28,916 | \$26,527 | \$25,269 | \$22,208 | \$25,579 | \$26,165 | \$27,471 |
| Iowa          | \$24,773 | \$25,384 | \$24,570 | \$23,866 | \$22,435 | \$26,777 | \$27,730 | \$29,006 |
| Kansas        | \$29,720 | \$30,931 | \$27,805 | \$28,839 | \$23,840 | \$27,844 | \$28,520 | \$29,800 |
| Kentucky      | \$25,994 | \$26,524 | \$24,471 | \$24,181 | \$21,317 | \$24,180 | \$24,863 | \$26,111 |
| Louisiana     | \$32,488 | \$30,456 | \$28,971 | \$31,317 | \$24,873 | \$28,069 | \$29,226 | \$30,382 |
| Maine         | \$22,793 | \$23,571 | \$21,560 | \$19,666 | \$19,886 | \$21,494 | \$21,922 | \$23,127 |
| Maryland      | \$26,608 | \$27,285 | \$24,188 | \$25,223 | \$23,762 | \$27,023 | \$27,491 | \$28,799 |
| Massachusetts | \$37,993 | \$39,730 | \$36,907 | \$32,418 | \$31,500 | \$36,354 | \$36,749 | \$38,516 |
| Michigan      | \$29,238 | \$28,889 | \$25,764 | \$21,868 | \$18,998 | \$21,199 | \$21,926 | \$22,944 |
| Minnesota     | \$26,296 | \$26,899 | \$24,457 | \$24,022 | \$21,540 | \$24,464 | \$24,895 | \$25,948 |
| Mississippi   | \$26,794 | \$26,657 | \$24,435 | \$24,643 | \$22,078 | \$23,844 | \$24,515 | \$25,797 |
| Missouri      | \$28,635 | \$29,717 | \$26,737 | \$28,605 | \$26,926 | \$29,125 | \$29,659 | \$30,973 |

Table A.5 (Continued)

## Income Per Non-Farm Proprietor

| State          | 2005     | 2006     | 2007     | 2008     | 2009     | 2010     | 2011     | 2012*    |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Montana        | \$24,718 | \$25,324 | \$22,206 | \$20,864 | \$18,310 | \$20,144 | \$20,626 | \$21,656 |
| Nebraska       | \$26,186 | \$26,824 | \$25,094 | \$25,573 | \$24,382 | \$28,645 | \$29,527 | \$30,924 |
| Nevada         | \$28,333 | \$28,669 | \$24,375 | \$22,778 | \$21,003 | \$23,186 | \$23,629 | \$24,460 |
| New Hampshire  | \$32,757 | \$34,961 | \$31,315 | \$27,972 | \$26,859 | \$30,525 | \$31,233 | \$32,720 |
| New Jersey     | \$39,908 | \$41,506 | \$38,250 | \$36,706 | \$34,103 | \$37,473 | \$38,087 | \$39,572 |
| New Mexico     | \$25,251 | \$26,245 | \$23,253 | \$23,054 | \$19,113 | \$20,566 | \$21,162 | \$22,013 |
| New York       | \$42,232 | \$45,599 | \$40,369 | \$39,175 | \$39,753 | \$45,878 | \$46,395 | \$47,623 |
| North Carolina | \$24,338 | \$25,234 | \$22,199 | \$21,693 | \$19,615 | \$21,794 | \$22,443 | \$23,492 |
| North Dakota   | \$26,290 | \$26,388 | \$24,108 | \$23,641 | \$21,741 | \$24,866 | \$25,335 | \$27,072 |
| Ohio           | \$26,978 | \$27,607 | \$24,657 | \$25,491 | \$22,931 | \$25,834 | \$26,404 | \$27,342 |
| Oklahoma       | \$36,330 | \$38,853 | \$34,783 | \$44,483 | \$27,923 | \$34,170 | \$36,480 | \$37,044 |
| Oregon         | \$25,753 | \$26,683 | \$23,849 | \$24,371 | \$21,246 | \$23,203 | \$23,685 | \$24,917 |
| Pennsylvania   | \$36,152 | \$37,383 | \$34,611 | \$34,404 | \$29,632 | \$33,159 | \$34,118 | \$35,485 |
| Rhode Island   | \$31,220 | \$31,928 | \$29,566 | \$27,432 | \$24,822 | \$28,932 | \$29,589 | \$30,858 |
| South Carolina | \$19,860 | \$20,502 | \$18,289 | \$17,990 | \$15,891 | \$17,886 | \$18,426 | \$19,365 |
| South Dakota   | \$29,090 | \$28,745 | \$26,604 | \$24,674 | \$22,277 | \$24,741 | \$25,168 | \$26,342 |
| Tennessee      | \$37,506 | \$38,867 | \$35,681 | \$33,589 | \$32,265 | \$35,507 | \$36,603 | \$38,282 |
| Texas          | \$44,215 | \$45,520 | \$41,767 | \$46,685 | \$34,040 | \$39,209 | \$40,899 | \$42,405 |
| Utah           | \$22,464 | \$23,104 | \$20,742 | \$21,307 | \$18,936 | \$21,111 | \$21,307 | \$22,313 |
| Vermont        | \$21,337 | \$22,739 | \$19,976 | \$18,105 | \$17,312 | \$19,704 | \$19,976 | \$21,014 |
| Virginia       | \$30,295 | \$30,508 | \$27,379 | \$25,674 | \$22,580 | \$26,288 | \$26,904 | \$28,069 |
| Washington     | \$31,373 | \$33,274 | \$30,652 | \$30,025 | \$27,212 | \$29,784 | \$30,341 | \$31,968 |
| West Virginia  | \$28,466 | \$29,512 | \$27,338 | \$29,181 | \$23,913 | \$26,915 | \$27,500 | \$29,014 |
| Wisconsin      | \$26,115 | \$26,974 | \$24,371 | \$23,130 | \$22,325 | \$25,317 | \$25,771 | \$26,947 |
| Wyoming        | \$31,387 | \$32,709 | \$28,391 | \$29,847 | \$24,683 | \$28,690 | \$29,723 | \$30,624 |

Source: U.S. Bureau of Economic Analysis

\*Note: 2012 is an estimate based on growth in proprietor income, 2012 proprietor count not available

Table A.6

## State Entrepreneurship Index Rank 2005-2012

| State          | 2005 Rank | 2006 Rank | 2007 Rank | 2008 Rank | 2009 Rank | 2010 Rank | 2011 Rank | 2012 Rank |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Alabama        | 33        | 50        | 34        | 42        | 47        | 45        | 42        | 47        |
| Alaska         | 35        | 38        | 39        | 30        | 25        | 16        | 25        | 19        |
| Arizona        | 15        | 2         | 3         | 26        | 49        | 49        | 39        | 22        |
| Arkansas       | 34        | 20        | 33        | 8         | 22        | 32        | 32        | 45        |
| California     | 13        | 8         | 9         | 9         | 10        | 13        | 13        | 6         |
| Colorado       | 2         | 3         | 4         | 16        | 11        | 23        | 22        | 10        |
| Connecticut    | 12        | 16        | 12        | 12        | 4         | 10        | 12        | 7         |
| Delaware       | 5         | 29        | 21        | 39        | 45        | 29        | 36        | 43        |
| Florida        | 4         | 9         | 11        | 2         | 43        | 26        | 34        | 15        |
| Georgia        | 29        | 31        | 25        | 22        | 40        | 37        | 41        | 33        |
| Hawaii         | 49        | 41        | 29        | 33        | 30        | 42        | 48        | 42        |
| Idaho          | 1         | 1         | 1         | 6         | 13        | 27        | 35        | 38        |
| Illinois       | 16        | 15        | 20        | 17        | 5         | 8         | 5         | 14        |
| Indiana        | 45        | 44        | 38        | 36        | 35        | 38        | 30        | 37        |
| Iowa           | 47        | 45        | 43        | 46        | 27        | 35        | 43        | 21        |
| Kansas         | 38        | 35        | 44        | 25        | 8         | 19        | 10        | 44        |
| Kentucky       | 48        | 36        | 30        | 49        | 50        | 30        | 47        | 48        |
| Louisiana      | 25        | 10        | 48        | 31        | 12        | 4         | 50        | 31        |
| Maine          | 40        | 46        | 32        | 32        | 26        | 43        | 21        | 39        |
| Maryland       | 20        | 32        | 27        | 34        | 33        | 28        | 16        | 35        |
| Massachusetts  | 6         | 49        | 18        | 20        | 7         | 2         | 1         | 23        |
| Michigan       | 37        | 40        | 37        | 45        | 39        | 46        | 49        | 50        |
| Minnesota      | 19        | 12        | 35        | 24        | 28        | 25        | 9         | 4         |
| Mississippi    | 39        | 43        | 42        | 41        | 37        | 47        | 45        | 49        |
| Missouri       | 42        | 42        | 41        | 47        | 36        | 34        | 40        | 34        |
| Montana        | 50        | 22        | 14        | 14        | 23        | 31        | 33        | 27        |
| Nebraska       | 32        | 33        | 36        | 29        | 20        | 22        | 24        | 16        |
| Nevada         | 8         | 6         | 6         | 5         | 31        | 48        | 44        | 28        |
| New Hampshire  | 23        | 11        | 13        | 10        | 6         | 7         | 6         | 3         |
| New Jersey     | 7         | 14        | 24        | 13        | 18        | 3         | 7         | 29        |
| New Mexico     | 44        | 26        | 31        | 27        | 34        | 24        | 27        | 41        |
| New York       | 14        | 13        | 15        | 4         | 1         | 1         | 3         | 2         |
| North Carolina | 41        | 28        | 16        | 21        | 42        | 40        | 28        | 30        |
| North Dakota   | 28        | 37        | 47        | 15        | 14        | 9         | 2         | 1         |
| Ohio           | 43        | 47        | 45        | 38        | 41        | 41        | 26        | 40        |
| Oklahoma       | 24        | 21        | 22        | 3         | 21        | 6         | 19        | 20        |
| Oregon         | 10        | 4         | 8         | 43        | 29        | 12        | 11        | 5         |
| Pennsylvania   | 27        | 27        | 23        | 23        | 15        | 14        | 8         | 9         |
| Rhode Island   | 11        | 25        | 26        | 44        | 24        | 20        | 20        | 13        |
| South Carolina | 17        | 18        | 50        | 50        | 48        | 50        | 46        | 46        |
| South Dakota   | 30        | 34        | 40        | 37        | 19        | 18        | 29        | 32        |
| Tennessee      | 31        | 23        | 19        | 18        | 32        | 33        | 37        | 25        |
| Texas          | 18        | 19        | 2         | 19        | 16        | 11        | 4         | 8         |
| Utah           | 3         | 7         | 28        | 40        | 38        | 44        | 23        | 17        |
| Vermont        | 26        | 24        | 17        | 11        | 9         | 15        | 15        | 11        |
| Virginia       | 21        | 30        | 5         | 28        | 17        | 17        | 18        | 12        |
| Washington     | 22        | 17        | 7         | 7         | 2         | 21        | 17        | 24        |
| West Virginia  | 46        | 48        | 46        | 48        | 44        | 36        | 38        | 36        |
| Wisconsin      | 36        | 39        | 49        | 35        | 46        | 39        | 31        | 26        |
| Wyoming        | 9         | 5         | 10        | 1         | 3         | 5         | 14        | 18        |

Sources: U.S. Departments of Labor, Commerce and Patent Office

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