

# **Gender and Establishment Dynamics, 2002-2006**

by

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## ***Executive Summary***

This report examines the gender characteristics and business dynamics of establishments that were in operation as of 2002 for the 2002-2006 period. The U.S. Census Bureau provides the U.S. Small Business Administration's Office of Advocacy matching data from the 2002 Survey of Business Owners (SBO) and the 1989-2006 Business Information Tracking Series (BITS) for this analysis. The BITS database is a rich source of information about establishment dynamics, including establishment deaths, expansions, and contractions. Note that business births are not included, as the data tracked here are for the businesses in existence in 2002. Also, "survival rates" as used here refer to the entire set of businesses that were in operation in 2002, which include businesses of all ages and sizes—so they should not be compared with survival rates for startups. The SBO database also offers information about the establishments' owning enterprises.

This paper is the first to report the data in an Advocacy publication series. The series focuses on business dynamics by gender, race/ethnicity, and business type, i.e., publicly held vs. non-publicly held businesses. Business owners' gender, race or ethnic characteristics can be identified only for non-publicly-held enterprises.

Employer establishments—establishments with paid employees—owned by women had lower survival rates than those owned by men or owned equally by men and women over the 2002-2006 period. Female-owned establishments had lower contraction rates than other firms over the same period. By 2006, all but two states had an overall net loss of employment in employer establishments that were in operation in 2002 due to business closures and contractions. Employer establishments in Hawaii gained 5,698 jobs and those in Nevada gained 3,498 by 2006.

Other key findings include the following:

- The average four-year survival rate for all 2002 employer establishments was 70 percent; for female-owned, 66 percent; for male-owned, 72 percent; and for male and female equally owned, 69 percent.
- Minus the gains in employment contributed by business births (which are not included in this study), all but two industries had a net loss of employment for 2002 employer establishments over the 2002-2006 period. A strong expansion, and weak contraction trend in the education services industry (NAICS code 61) led to job gains of 3.6 percent

(more than 91,000 jobs); in the unclassified industries (NAICS code 99) job gains totaled about 7,000, or 23 percent.

- Larger businesses had lower death rates, higher expansion rates, and higher contraction rates. On average, employer establishments that had closed by 2006 tended to have fewer employees, lower payroll per worker, and lower business receipts per establishment in 2002.
- Business expansions, by definition, create jobs, but the number of jobs created in the expansions of existing businesses was not enough to counteract the loss of jobs due to business deaths and contractions. New business creation, not reflected in these data, is the key to new job creation and sustainable economic growth.
- Expansions of female-owned establishments outpaced expansions of establishments owned by their male counterparts in 40 of the 50 states and the District of Columbia. Yet employment losses in existing female-owned establishments were more severe than those in their male counterparts' establishments—minus 12 percent —compared with minus 9 percent over the 2002-2006 period. There were 45 women-owned firms for every 1,000 women in the United States, compared with 96 firms owned by men for every 1,000 men in 2002. If a goal of public policy is to encourage more business creation through more gender parity, female-owned business creation should continue to be strongly encouraged.

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## ***I. Introduction***

The Small Business Administration's Office of Advocacy published a report in 2005, *Dynamics of Minority-Owned Employer Establishments, 1997-2001*, analyzing aspects of business dynamics.<sup>1</sup> The dynamic process includes business births, expansions, contractions, and deaths, and their corresponding effects on employment. To update this study, Advocacy recently collaborated with the National Women's Business Council and the U.S. Census Bureau to produce a new set of 2002-2006 business dynamics data. This dataset has a series of statistical tabulations tracking establishment owners who responded to the 2002 Survey of Business Owners (SBO), and matching them to the 1989-2006 Business Information Tracking Series (BITS).<sup>2</sup>

For the SUSB database, business activities are recorded by the U.S. government at the establishment, firm, and enterprise levels:<sup>3</sup> Definitions of business units, important to the discussion here, are as follows:

- An **establishment** is a single physical location where business is conducted or where services or industrial operations are performed.
- A **firm**, as defined in this dataset, is a business organization consisting of one or more domestic establishments *in the same state and industry* that were under common ownership or control. The firm and the establishment are the same for single-establishment firms. For each multi-establishment firm, establishments in the same industry within a state will be counted as one firm; the firm employment and annual payroll are summed from the associated establishments.
- An **enterprise** is a business organization consisting of one or more domestic establishments that were under common ownership or control. The enterprise and the establishment are the same for single-establishment firms. Each multi-establishment company forms one enterprise. The enterprise employment and annual payroll are summed from the associated establishments.

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<sup>1</sup> <http://www.sba.gov/advo/research/rs251tot.pdf>.

<sup>2</sup> The tabulations are available to the public via ([web-link to be inserted](#)).

<sup>3</sup> <http://www.census.gov/econ/susb/definitions.html>

To be consistent with the Census definitions, the business dynamic activities documented in this report include establishment deaths, expansions, and contractions.<sup>4</sup> The data were for the 2002 cohort of the Survey of Business Owners; therefore, no new business births are included. Also, “survival rates” as used here refer to the entire set of businesses that were in operation in 2002, which include businesses of all ages and sizes—so they should not be compared with survival rates for startups.

- **Deaths** are establishments that have positive employment in the first quarter of the initial year and zero employment in the first quarter of the subsequent year.
- **Expansions** are establishments that have positive first quarter employment in both the initial and subsequent years and that increase employment during the time period between the first quarter of the initial year and the first quarter of the subsequent year.
- **Contractions** are establishments that have positive first quarter employment in both the initial and subsequent years and decrease employment during the time period between the first quarter of the initial year and the first quarter of the subsequent year.

This report uses data at the establishment and enterprise levels. Business dynamics are recorded at the establishment level, while establishment, size, industry, location, and owner’s gender are sorted at their associated enterprise level. This is the first use of this dataset in an Advocacy publication series analyzing business dynamics by gender, race/ethnicity, and business type (publicly or not publicly held). The gender and racial or ethnic background of the business owners can be identified only for non-publicly held enterprises. Unless otherwise noted, all tables and charts in this report are based on the U.S. Census Bureau’s tabulations tracking establishment business owners that responded to the 2002 Survey of Business Owners (SBO), and matching them to the 1989-2006 Business Information Tracking Series (BITS).

The U.S. Census Bureau uses three gender categories to classify non-publicly held businesses: male-owned, female-owned, and firms owned equally by male and female owners. This report first provides general socio-economic business background information by gender. The general information also includes a summary of business dynamic data for employer establishments by gender in four periods (2002-2003, 2002-2004, 2002-2005, and 2002-2006). The report also covers the industry, size, and state characteristics of female-, male- and female

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and male equally owned employer establishments in 2002, and tracks these businesses' subsequent deaths, expansions, or contractions through 2006. The report concludes by highlighting the relationship between business dynamics and employment.

## ***II. General Information***

Table 1 shows general information about the U.S. male and female populations, based primarily on the 2002 American Community Survey Summary Tables from the U.S. Census Bureau. The labor participation rate for the civilian male labor force was 56.5 percent; for the female labor force, it was 46.9 percent. There were no significant gender differences in unemployment rates; however, the self-employment rate was less than 6 percent for females and more than 8 percent for males. According to the 2002 Survey of Business Owners, the number of male-owned firms was twice as that of female-owned firms. The business density—the number of firms per thousand persons in a group, was 96 for men, more than double the female rate of 45.

Table 1 also provides gender information about the education, poverty, and earnings of the U.S. population age 25 years and older, using the U.S. Census Bureau's 2006-2008 American Community Survey three-year estimates (except as specifically noted in the footnotes). The poverty rate is determined by an individual's educational attainment level. Although the female population age 25 and older had a higher rate of high school graduation, the percentage of women holding a bachelor's degree or higher in this age group was 23 percent, compared with a rate of 26 percent for males. The poverty rates for women were higher than for men; and men's earnings at all educational levels exceeded women's.

Table 2 presents general business dynamic information for male- and female-owned employer establishments over the four time periods, 2002-2003, 2002-2004, 2002-2005, and 2002-2006. The survival and expansion rates for male-owned employer establishments were slightly higher than for female-owned ones. However, the contraction rates for woman-owned employer establishments were lower than men's. The male / female equally owned and female-owned employer establishments had similar patterns of net change in employment for the last three periods. In sum, for all employer establishments in operation in 2002, 71.7 percent of male-owned, 66.1 percent of female-owned, and 69.2 percent of male / female equally owned

Table 1 General Information by Gender: Population, Labor Force, Self-employed Individuals, Education, Earnings and Poverty, 2002

Category	Total	Male	Female
Population <sup>1</sup>	280,540,330	137,048,827	143,491,503
Civilian labor force 16 years of age and over <sup>2</sup>	144,863,000	77,500,000	67,363,000
Labor participation rate (percent)	51.6	56.5	46.9
Employed	136,485,000	72,903,000	63,582,000
Self-employed, 2002 <sup>3</sup>	9,927,000	6,156,000	3,771,000
Self-employed as percent of total employed workers	7.3	8.4	5.9
Unemployed	8,378,000	4,597,000	3,781,000
Unemployment rate (percent)	5.8	5.9	5.6
Number of non-publicly held businesses (firms), 2002 <sup>4</sup>	19,673,652	13,184,033	6,489,259
Gender share of total non-publicly held firms (percent)	100	67	33
Business density <sup>5</sup>	70	96	45
Education of people 25 years old and over <sup>6</sup>			
Percent high school graduate or higher	80	80	81
Percent bachelor's degree or higher	24	26	23
Poverty rates <sup>7</sup> (percent)			
Less than high school graduate	23.6	19.4	27.7
High school graduate (includes equivalency)	11.5	9.3	13.5
Some college or associate's degree	7.8	6.0	9.4
Bachelor's degree	4.1	3.6	4.5
Graduate or professional degree	3.0	2.7	3.3
Average individual earnings <sup>8</sup>	\$34,483	\$41,298	\$28,104
Less than high school graduate	\$19,989	\$23,638	\$14,682
High school graduate (includes equivalency)	\$27,448	\$33,506	\$21,711
Some college or associate's degree	\$33,838	\$41,861	\$27,663
Bachelor's degree	\$47,853	\$59,079	\$39,571
Graduate or professional degree	\$63,174	\$79,276	\$52,301

Source:

1. 2002 American Community Survey Summary Tables, from the U.S. Census Bureau, American Community Survey (2002).
2. 2002 Civilian labor force, excluding institutional population 16 and over, <http://www.bls.gov/cps/wlf-tables1.pdf>.
3. Including both unincorporated and incorporated self-employed persons. Source: 2002 self-employed workers data from <http://data.bls.gov/cgi-bin/srgate>. A proportion of self-employed individuals may not be counted as employed workers.
4. The Census Bureau, 2002 Survey of Business Owners. The data exclude publicly held and other firms not classifiable by gender, Hispanic or Latino origin, and race. The sum of male- and female-owned firms does not include equally male-/female-owned, publicly held and other firms not classifiable by gender, race or ethnicity.
5. Business number per 1000 persons in each group.
6. Data from Census 2000, [http://factfinder.census.gov/servlet/OTTable?\\_bm=y&-geo\\_id=01000US&-qr\\_name=DEC\\_2000\\_SF3\\_U\\_QTP20&-ds\\_name=DEC\\_2000\\_SF3\\_U](http://factfinder.census.gov/servlet/OTTable?_bm=y&-geo_id=01000US&-qr_name=DEC_2000_SF3_U_QTP20&-ds_name=DEC_2000_SF3_U).
7. The poverty and earnings data were from the U.S. Census Bureau, 2006-2008 American Community Survey 3-Year Estimates. The poverty rate is for the population 25 years and older for whom the poverty status is determined by educational attainment level.
8. Average individual earnings are median earnings in the past 12 months (in 2008 inflation-adjusted dollars) in the 2006-2008 American Community Survey.

establishments survived at least to 2006. Net losses of employment in these employer establishments were 8.7 percent, 11.5 percent, and 11.2 percent, respectively.

Table 3 contrasts 2002 employment, annual payroll, and receipts data for all employer establishments by gender of the enterprise owner, and for establishments that were in operation

Table 2-Employer Establishment Dynamics: Changes in Establishment Survival, Expansions, Contractions, and Net Changes in Employment, by Gender of Enterprise Owners, 2002-2003, 2002-2004, 2002-2005, and 2002-2006 (Percent)

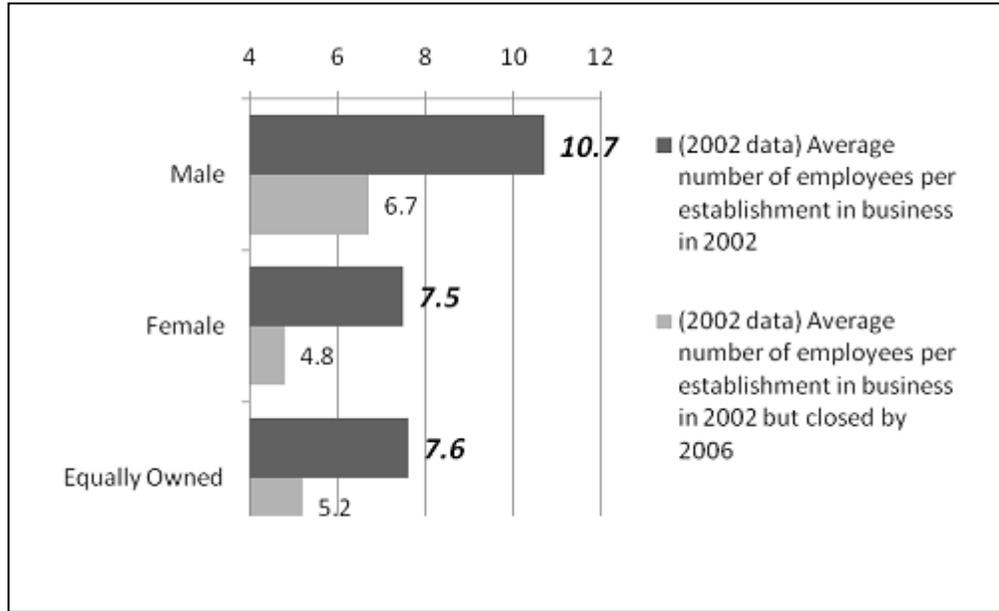
Gender	Time period	Survival rate	Expansion rate	Contraction rate	Net change in employment
Total	2002-2003	89.7	31.6	24.5	-0.1
	2002-2004	82.4	31.8	24.8	-3.0
	2002-2005	76.0	29.7	24.7	-7.6
	2002-2006	70.4	28.5	23.8	-9.3
Male-owned	2002-2003	90.2	31.8	24.9	-0.3
	2002-2004	83.1	32.2	25.1	-3.0
	2002-2005	77.1	30.3	25.1	-7.1
	2002-2006	71.7	29.2	24.2	-8.7
Female-owned	2002-2003	88.3	31.1	22.9	1.1
	2002-2004	79.7	30.4	23.1	-3.3
	2002-2005	72.3	27.5	23.0	-9.3
	2002-2006	66.1	26.0	22.0	-11.5
Male & female equally owned	2002-2003	89.1	31.5	24.8	0.0
	2002-2004	81.7	31.3	25.2	-3.3
	2002-2005	75.1	29.0	24.9	-9.2
	2002-2006	69.2	27.8	24.1	-11.2

Table 3 Establishments, Employment, Payroll, and Receipts of 2002 Establishments and Those that had Closed by 2006, Various Measures (Non-publicly Held Only)

Establishment by Gender	2002 Establishments				2002 Establishments that Closed by 2006			
	Establishment	Employment	Annual Payroll (\$1,000)	Receipts (\$1,000)	Establishment	Employment	Annual Payroll (\$1,000)	Receipts (\$1,000)
Total	5,485,758	53,449,766	1,626,998,598	7,895,771,490	1,624,156	9,902,718	243,228,114	1,148,186,633
Male	3,828,552	40,934,420	1,322,690,249	6,481,490,564	1,084,997	7,226,491	191,446,176	912,280,625
Female	923,978	6,963,492	174,161,403	795,596,276	313,666	1,502,924	29,576,659	126,306,422
Equally Owned	732,818	5,536,227	129,393,644	615,964,640	225,398	1,170,490	22,091,849	108,729,464
Establishment by Gender	Employees per establish.	Payroll per employee (\$)	Receipts per establish. (\$)	Death rate (%)	Employees per establish.	Payroll per employee (\$)	Receipts per establish. (\$)	
Total	9.7	30,440	1,439,322	29.6	6.1	24,562	706,944	
Male	10.7	32,312	1,692,935	28.3	6.7	26,492	840,814	
Female	7.5	25,011	861,055	33.9	4.8	19,679	402,678	
Equally Owned	7.6	23,372	840,542	30.8	5.2	18,874	482,389	

in 2002 but had exited by 2006. Of the total 5,485,758 non-publicly held establishments in operation in 2002, 1,624,156, or 29.6 percent, closed. Three measures are used to examine, on an average basis, factors related to business closure: employees per establishment, payroll per employee, and receipts per establishment.

Chart 1-Average Number of Employees of All Establishments in 2002 and Establishments that Closed by 2006



As can be seen in Table 3, lower early performance measures often characterize the establishments that end up closing. All three measures were lower on average for establishments that were in operation in 2002 but had closed by 2006 than they were for the average establishment. For example, establishments owned by women had on average 7.5 employees in 2002; those that had closed by 2006 had only 4.8 (Chart 1). The average receipts per establishment in 2002 were twice as much as the receipts of those that had closed by 2006. The average female-owned employer establishment had receipts of \$861,055 in 2002, compared with \$402,678 in comparable firms that had closed by 2006.

### ***III. Business Dynamics by Industry (NAICS)***

Tables 4 through 6 exhibit business dynamics by industry. An important qualification concerning net job figures is that they do not include jobs created by establishment startups that did not exist in 2002 but came into being over the periods shown—so net job change will appear more negative than it would be if startup employment were included. Of all industries, establishments in health care and social assistance (code 62) had the highest survival rate over the 2002-2004 period, 79.4 percent; the “unclassified” industry category (code 99) had the lowest, at 24.2 percent. Establishments in each of the following industries—manufacturing (code 31-33); retail trade (code 44-45); finance and insurance (code 52); administration, support, waste management,

Table 4 Four-Year Survival, Expansion, and Contraction Rates, and Net Job Changes of 2002 Establishments by Industry: 2002-2006 (Nonpublicly Held Only)

Category	Percentage change in total establishment			Number of net job changes	Percent of net job changes	Percentage change of employment due to:		
	Survival	Expns	Contrc			Death	Expns	Contrc
Total	71.0	29.2	24.8	-12,879,973	-12.0	-17.4	19.8	-14.4
11: Ag. Support, Forestry, Fishing, and Hunting	67.1	23.6	24.5	-33,120	-19.0	-19.9	18.6	-17.7
21: Mining	73.9	34.3	20.9	-23,104	-5.0	-19.1	28.2	-14.1
22: Utilities	74.7	26.9	28.5	-112,452	-17.9	-12.5	10.2	-15.6
23: Construction	69.5	30.1	23.4	-356,670	-5.6	-17.9	29.3	-17.0
31-33: Manufacturing	74.9	32.5	30.7	-1,914,228	-13.4	-13.3	14.1	-14.2
42: Wholesale Trade	73.3	29.7	25.4	-596,652	-10.3	-17.4	20.7	-13.6
44-45: Retail Trade	72.5	30.3	27.4	-1,535,294	-10.4	-14.6	16.2	-12.0
48-49: Transportation and Warehousing	64.7	28.2	21.2	-559,172	-18.2	-19.0	19.6	-18.8
51: Information	63.7	23.7	26.0	-980,802	-28.0	-25.4	16.7	-19.3
52: Finance and Insurance	69.6	28.1	20.8	-1,426,247	-22.6	-24.9	18.7	-16.3
53: Real Estate and Rental and Leasing	70.8	24.9	21.1	-322,622	-16.0	-21.2	20.6	-15.3
54: Professional, Scientific, and Technical Services	70.2	26.3	21.5	-783,177	-11.3	-20.1	25.4	-16.5
55: Management of Companies and Enterprises	69.7	28.2	27.0	-527,677	-18.1	-18.4	21.3	-21.0
56: Admin., Support, Waste Mngt., and Remediation	65.1	27.9	22.4	-1,162,650	-14.3	-27.7	32.2	-18.9
61: Educational Services	74.1	35.9	24.8	91,414	3.6	-7.4	19.7	-8.7
62: Health Care and Social Assistance	79.4	33.6	26.7	-314,221	-2.3	-10.4	18.1	-10.0
71: Arts, Entertainment, and Recreation	71.8	27.3	23.8	-165,065	-10.0	-14.7	19.8	-15.1
72: Accommodation and Food Services	68.5	31.1	27.8	-1,547,301	-15.5	-19.6	16.4	-12.2
81: Other Services (except Public Administration)	69.9	25.2	25.0	-449,210	-16.7	-20.7	19.1	-15.1
95: Auxiliaries	68.9	28.4	28.9	-168,518	-16.6	-16.8	17.8	-17.7
99: Unclassified	24.2	17.6	2.0	6,795	22.8	-72.7	102.0	-6.5

and remediation (code 56); and accommodation and food services (code 72)—had net losses of more than 1 million jobs.<sup>5</sup> Establishments in information (code 51) lost the largest share of jobs, 28 percent, followed by finance and insurance (code 52), 22.6 percent. Establishments in two industries, education (code 61) and unclassified (code 99), had net job gains of 3.6 percent and 22.8 percent, respectively. The net job losses were mainly attributable to business deaths. For example, information (code 51) and finance and insurance (code 52), shed about one-quarter each of their net 2002 employment as a result of business closures over the four-year period from 2002 to 2006.

Table 5 details the gender of business owners, as well as differences in business survival, expansion, and contraction by industry for all employer establishments in 2002. In 12 industries, one-third (33.3 percent) or more of female-owned establishments closed over the four-year

<sup>5</sup> Not included in this net change are jobs created by new business startups over the period.

Table 5 Survival, Expansion, and Contraction Rates of 2002 Establishments by Gender and Industry: 2002-2006 (Nonpublicly Held Only)

	Survival rate			Expansion rate			Contraction rate		
	Male	Female	Equal	Male	female	Equal	Male	Female	Equal
Total Male	71.7	66.1	69.2	29.2	26.0	27.8	24.2	22.0	24.1
11: Ag. Support, Forestry, Fishing, and Hunting	67.8	59.5	65.2	24.1	16.9	22.3	24.9	22.2	23.3
21: Mining	75.7	77.0	72.9	36.8	28.7	29.7	18.7	25.8	19.4
22: Utilities	69.4	73.9	78.6	27.0	22.5	26.8	17.4	34.3	22.1
23: Construction	69.3	66.6	72.4	29.9	29.7	31.1	23.2	24.1	23.9
31-33: Manufacturing	75.6	69.3	72.6	33.4	27.7	30.0	30.0	28.5	27.1
42: Wholesale Trade	74.8	70.0	70.8	31.0	26.0	26.7	25.2	25.0	23.7
44-45: Retail Trade	71.7	64.4	69.0	29.2	24.7	27.1	26.3	23.5	26.0
48-49: Transportation and Warehousing	65.0	61.1	63.1	28.7	25.0	25.3	20.5	21.1	19.6
51: Information	65.0	63.7	65.7	25.5	23.8	24.5	23.5	21.4	22.2
52: Finance and Insurance	74.1	70.0	74.7	29.5	26.2	28.2	19.6	19.0	20.9
53: Real Estate and Rental and Leasing	71.5	67.0	70.3	25.5	21.7	24.7	20.8	17.5	19.1
54: Professional, Scientific, and Technical Services	71.8	66.8	68.0	26.9	24.0	24.2	21.3	19.2	20.5
55: Management of Companies and Enterprises	78.1	75.8	78.3	32.7	30.6	29.0	29.5	26.6	32.8
56: Admin., Support, Waste Mngt., and Remediation	66.5	63.1	68.0	28.6	26.0	28.0	21.9	21.3	25.1
61: Educational Services	67.5	66.1	68.7	31.4	30.5	30.2	20.5	19.7	21.2
62: Health Care and Social Assistance	80.7	72.3	74.4	31.9	31.2	33.4	26.5	22.3	25.8
71: Arts, Entertainment, and Recreation	68.9	62.9	67.1	26.1	23.5	25.6	22.6	19.8	21.3
72: Accommodation and Food Services	69.0	62.0	65.8	31.7	28.0	29.2	27.7	23.5	26.5
81: Other Services (except Public Administration)	70.9	65.4	70.2	25.2	23.3	26.0	25.4	22.5	25.9
95: Auxiliaries	75.6	76.9	80.8	32.8	30.4	32.8	29.1	31.4	24.5
99: Unclassified	24.7	22.4	23.5	17.8	17.0	16.3	1.9	2.2	2.0

period 2002-2006; compared with only four industries exhibiting such closure rates for male-owned establishments. In eight industries, more than 30 percent of male-owned establishments expanded within 4 years, compared with four industries with comparable expansion rates for female-owned establishments.

Table 6 shows gaps in employer establishment death rates by gender. Female-owned establishments had 5.6 percent higher death rates than male-owned in general. The exceptions were establishments in three industries, mining (code 21), utilities (code 22), and auxiliaries (code 95), in which female-owned establishments had lower death rates than those owned by men. The highest gender gaps in employer establishment death rates were in health care and social assistance (code 62) and agriculture, forestry, fishing, and hunting (code 11), 8.4 and 8.3 percentage points, respectively. The smallest gaps were in the information industry (code 51), 1.3 percentage points and educational services (code 62), 1.4 percentage points.

Table 6 Total Number and Death Rates of 2002 Establishments by Industry:  
2002-2006 (Male- and Female-owned Businesses Only)

NAICS	Establishment number by Gender				Death rate (percent)		
	2002 Total		Closed by 2006		Male	Female	Gap *
	Male	Female	Male	Female			
Total	3,828,552	923,978	1,084,997	313,666	28.3	33.9	5.6
11: Ag. Support, Forestry, Fishing, and Hunting	16,809	2,265	5,418	917	32.2	40.5	8.3
21: Mining	14,315	1,688	3,476	389	24.3	23.0	-1.2
22: Utilities	2,706	329	827	86	30.6	26.1	-4.4
23: Construction	540,809	49,557	166,286	16,569	30.7	33.4	2.7
31-33: Manufacturing	216,442	38,867	52,757	11,939	24.4	30.7	6.3
42: Wholesale Trade	268,486	44,216	67,762	13,273	25.2	30.0	4.8
44-45: Retail Trade	538,974	150,985	152,368	53,714	28.3	35.6	7.3
48-49: Transportation and Warehousing	114,533	19,581	40,069	7,624	35.0	38.9	4.0
51: Information	54,881	11,939	19,215	4,330	35.0	36.3	1.3
52: Finance and Insurance	186,415	33,282	48,212	9,994	25.9	30.0	4.2
53: Real Estate and Rental and Leasing	175,982	49,947	50,202	16,460	28.5	33.0	4.4
54: Professional, Scientific, and Technical Services	506,514	129,529	142,962	43,025	28.2	33.2	5.0
55: Management of Companies and Enterprises	16,071	2,184	3,512	529	21.9	24.2	2.4
56: Admin., Support, Waste Mngt., and Remediation	189,436	59,365	63,472	21,898	33.5	36.9	3.4
61: Educational Services	17,529	15,625	5,703	5,304	32.5	33.9	1.4
62: Health Care and Social Assistance	355,412	115,846	68,509	32,058	19.3	27.7	8.4
71: Arts, Entertainment, and Recreation	49,884	16,319	15,527	6,059	31.1	37.1	6.0
72: Accommodation and Food Services	291,502	89,151	90,405	33,901	31.0	38.0	7.0
81: Other Services (except Public Administration)	248,726	85,121	72,492	29,421	29.1	34.6	5.4
95: Auxiliaries	3,114	312	761	72	24.4	23.1	-1.4
99: Unclassified	20,010	7,869	15,064	6,104	75.3	77.6	2.3
Note:							
* This is the difference between female-owned establishment death rate and the death rate of male-owned establishment.							

#### IV. Business Dynamics by Size

There are two ways to measure business size in the dataset: by enterprise employment size, from firms with fewer than 5 employees (<5) to those with 500 or more (500+); and by enterprise receipts size, from firms with less than \$25,000 (<25) in receipts to those with \$1 million or more (1,000+).

Table 7 presents the number of 2002 establishments and their corresponding employment, annual payroll, and receipts. The table also shows the number of establishment deaths in four periods (2002-2003, 2002-2004, 2002-2005, and 2002-2006). The data in this table are sorted by enterprise employment size and owner's gender.

Table 7 Number of 2002 Establishments with Corresponding Employment, Annual Payroll, and Receipts; and Number of Establishment Deaths, by Enterprise Employment Size and Gender: 2002-2006 (Nonpublicly Held Only)

Firm employment size	2002 Establishment	Employment	Annual payroll (\$1,000)	Receipts (\$1,000)	Number of establishment deaths			
					2002-03	2002-04	2002-05	2002-06
Total: All	5,485,758	53,449,766	1,626,998,598	7,895,771,490	562,486	967,285	1,315,125	1,624,156
<5	3,088,445	5,059,780	172,486,533	1,011,973,708	428,780	711,348	946,028	1,150,858
5-9	903,099	5,854,363	164,901,679	799,294,814	57,608	109,112	157,385	199,730
10-19	570,407	7,202,371	213,915,322	958,289,542	29,843	58,353	84,588	108,906
20-49	396,483	9,664,950	300,364,383	1,336,606,878	19,547	36,914	53,560	70,138
50-99	158,612	6,360,157	203,509,095	955,981,514	6,825	13,016	19,177	25,050
100-499	200,417	9,866,870	314,275,524	1,491,529,364	9,654	18,581	26,532	34,015
500+	168,295	9,441,276	257,546,063	1,342,095,669	10,229	19,960	27,855	35,459
Total: Male	3,828,552	40,934,420	1,322,690,249	6,481,490,564	374,627	645,382	877,006	1,084,997
<5	2,072,365	3,414,420	126,086,850	741,274,822	280,109	463,942	616,740	750,708
5-9	616,655	3,997,497	123,106,532	598,950,866	38,089	71,933	102,770	130,505
10-19	400,363	5,033,419	163,010,090	745,261,453	20,070	39,258	56,647	72,894
20-49	293,778	7,159,282	241,161,508	1,099,212,263	13,816	26,160	38,243	50,374
50-99	125,884	5,021,410	170,480,201	825,378,616	5,277	10,172	14,878	19,548
100-499	168,213	8,058,257	269,569,282	1,318,712,853	8,183	15,863	22,671	29,038
500+	151,294	8,250,136	229,275,786	1,152,699,691	9,083	18,054	25,058	31,930
Total: Female	923,978	6,963,492	174,161,403	795,596,276	107,964	187,510	255,766	313,666
<5	588,596	925,267	25,571,078	140,401,543	87,117	147,553	197,026	239,024
5-9	151,655	980,416	21,888,976	96,868,028	11,122	20,908	30,291	38,200
10-19	85,987	1,098,283	26,309,679	103,392,334	4,960	9,839	14,714	18,914
20-49	51,456	1,278,364	32,129,998	117,541,932	2,700	5,311	7,752	9,988
50-99	17,214	719,907	19,121,598	73,135,505	661	1,259	2,075	2,638
100-499	18,191	1,105,388	28,918,259	107,051,646	806	1,506	2,180	2,805
500+	10,879	855,867	20,221,815	157,205,288	597	1,134	1,728	2,096

Table 8-Average Number of 2002 Employees per Establishment, Annual Payroll per Worker, and Receipts per Establishment; and Average Establishment Death Rates, by Enterprise Employment Size and Gender, 2002-2006 (Nonpublicly Held Only)

Enterprise employee size	Number of male-owned per female-owned establishment	Number of employees per establishment	Annual payroll per worker (\$)	Receipts per establishment (\$)	Death rate (percent)			
					2002-03	2002-04	2002-05	2002-06
Total: Male	4.1	10.7	32,312	1,692,935	9.8	16.9	22.9	28.3
<5	3.5	1.6	36,928	357,695	13.5	22.4	29.8	36.2
5-9	4.1	6.5	30,796	971,290	6.2	11.7	16.7	21.2
10-19	4.7	12.6	32,386	1,861,464	5.0	9.8	14.1	18.2
20-49	5.7	24.4	33,685	3,741,643	4.7	8.9	13.0	17.1
50-99	7.3	39.9	33,951	6,556,660	4.2	8.1	11.8	15.5
100-499	9.2	47.9	33,453	7,839,542	4.9	9.4	13.5	17.3
500+	13.9	54.5	27,791	7,618,939	6.0	11.9	16.6	21.1
Total: Female	--	7.5	25,011	861,055	11.7	20.3	27.7	33.9
<5	--	1.6	27,636	238,536	14.8	25.1	33.5	40.6
5-9	--	6.5	22,326	638,739	7.3	13.8	20.0	25.2
10-19	--	12.8	23,955	1,202,418	5.8	11.4	17.1	22.0
20-49	--	24.8	25,134	2,284,319	5.2	10.3	15.1	19.4
50-99	--	41.8	26,561	4,248,606	3.8	7.3	12.1	15.3
100-499	--	60.8	26,161	5,884,869	4.4	8.3	12.0	15.4
500+	--	78.7	23,627	14,450,344	5.5	10.4	15.9	19.3

Chart 2-Average Number of Employees per Establishment in 2002, by Enterprise Employment Size and Gender (Nonpublicly Held Only)

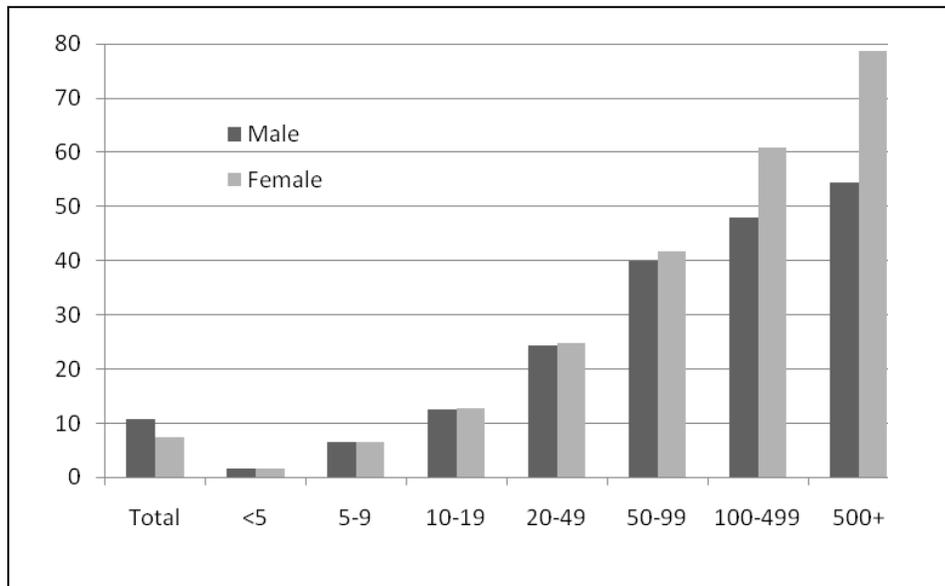
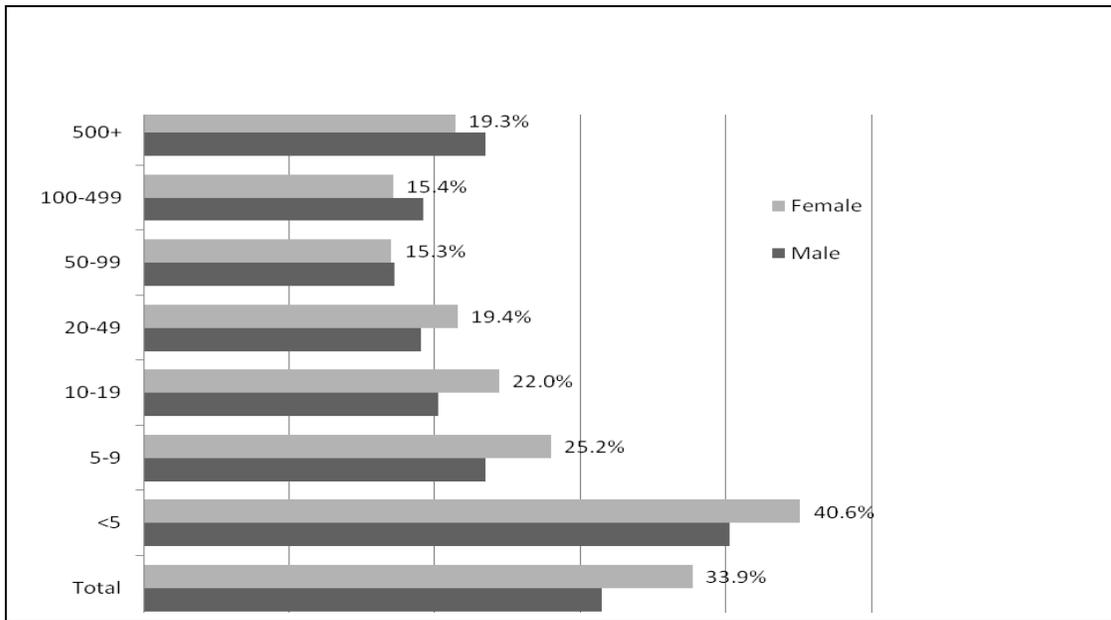


Table 8 illustrates the gender and enterprise size differences in average numbers of employees per establishment, annual payroll per worker, and receipts per establishment in 2002; as well as in average establishment death rates over the four periods. Overall, there were four times as many establishments owned by men as by women in 2002, and 14 times as many male-owned establishments in large enterprises (with 500 or more employees), compared with the number owned by women. On average, the annual payroll per worker for male-owned establishments was 30 percent more than that of female-owned; the average receipts per male-owned establishment were double the receipts of female-owned establishments in 2002.

Charts 2 and 3 display some exceptions to the gender patterns illustrated earlier. Chart 2 shows a higher average number of employees per female-owned establishment than male-owned when these establishments were associated with larger enterprises measured in terms of employment. For example, there were an average of 60.8 employees per female-owned establishment associated with enterprises with 100-499 employees, compared with an average of 47.9 employees for their male-owned counterparts.

Chart 3 indicates that the average death rate for female-owned establishments was 33.9 percent over the 2002-2006 period, compared with 28.3 percent for male-owned establishments.

Chart 3 Death Rates of Employer Establishments by Owner’s Gender and Employment Size of Enterprise, 2002-2006 (Nonpublicly Held Only)



But for this dataset, the death rates were lower for female-owned than male-owned establishments within enterprises of 50 or more employees.

Table 9 provides size information sorted by enterprise receipts size and owner’s gender. There are six receipts size categories, ranging from less than \$25,000 to \$1 million or more. On average, larger establishments had both survival and expansion rates that were higher than in smaller establishments. At the same time, the employment of smaller establishments did not contract as much (as a share of total employment) as employment in larger establishments. This pattern applies to all establishments, regardless of the gender of their owners. Note that due to the small sample size, many data points were suppressed to avoid disclosure.

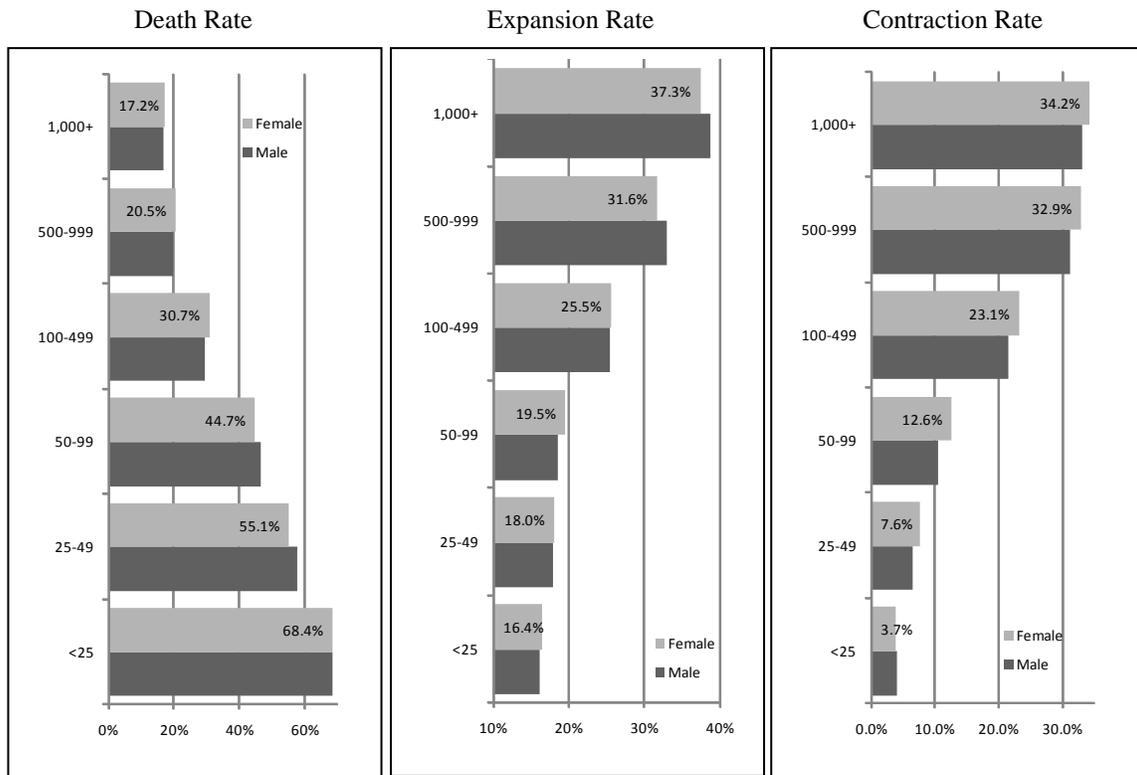
Chart 4 illustrates the differences in death, expansion, and contraction rates between female- and male-owned employer establishments by enterprises’ receipts size. More than two-thirds (68.4 percent) of establishments in very small enterprises—those with annual receipts of less than \$25,000—closed (regardless of the owner’s gender) between 2002 and 2006. Larger establishments, as measured by receipts size, had higher rates of survival, expansion, and contraction, compared with smaller establishments.

Table 9-Number of 2002 Establishments Deaths, Expansions, Contractions, Net Changes in Employment, and Percentage Changes in Number of Establishments by Receipts Size and Enterprise Owner's Gender: 2002-2006 (Non-publicly Held Businesses Only)

Enterprise receipts size (\$1,000)	Initial year		Net change in employment	Deaths		Expansions		Contractions		Percentage changes in establishment		
	Establishment	Employment		Establishment	Net change in employment	Establishment	Net change in employment	Establishment	Net change in employment	Survival	Expansion	Contraction
Total	5,485,758	53,449,766	-4,988,473	1,624,156	-9,902,718	1,562,534	12,590,325	1,305,146	-7,676,080	70.4	28.5	23.8
<25	248,365	248,924	-4,534	170,040	-160,491	40,781	189,458	9,234	-33,501	31.5	16.4	3.7
25-49	279,040	311,387	-29,196	158,956	-188,873	50,063	189,024	18,791	-29,346	43.0	17.9	6.7
50-99	555,708	862,246	-159,412	256,353	-422,547	105,116	365,252	62,075	-102,117	53.9	18.9	11.2
100-499	2,141,972	7,520,593	-1,206,232	637,883	-2,184,040	543,239	2,123,701	474,215	-1,145,893	70.2	25.4	22.1
500-999	758,649	6,042,819	-714,356	149,276	-1,190,481	247,735	1,410,501	239,655	-934,376	80.3	32.7	31.6
1,000+	1,502,024	38,463,798	-2,874,743	251,648	-5,756,286	575,601	8,312,389	501,177	-5,430,846	83.2	38.3	33.4
Total Male	3,828,552	40,934,420	-3,571,937	1,084,997	-7,226,491	1,118,287	9,514,529	925,162	-5,859,975	71.7	29.2	24.2
<25	148,413	154,313	-9,831	101,598	(D)	23,892	107,565	5,736	(D)	31.5	16.1	3.9
25-49	166,630	177,148	-5,087	95,827	(D)	29,897	119,328	10,594	(D)	42.5	17.9	6.4
50-99	343,783	495,856	-78,072	160,018	-246,370	63,494	227,593	36,229	-59,295	53.5	18.5	10.5
100-499	1,435,873	4,724,042	-706,991	423,590	-1,377,921	362,832	1,382,089	309,262	-711,159	70.5	25.3	21.5
500-999	540,216	4,111,639	-479,874	105,133	-806,036	177,652	962,520	167,922	-636,357	80.5	32.9	31.1
1,000+	1,193,637	31,271,422	-2,292,083	198,830	-4,585,008	460,521	6,715,434	395,419	-4,422,509	83.3	38.6	33.1
Total Female	923,978	6,963,492	-801,400	313,666	-1,502,924	240,638	1,726,407	203,001	-1,024,882	66.1	26.0	22.0
<25	65,694	(D)	(D)	44,937	(D)	10,774	(D)	2,405	-17,082	31.6	16.4	3.7
25-49	73,062	(D)	(D)	40,290	-50,351	13,159	(D)	5,520	-9,048	44.9	18.0	7.6
50-99	133,656	(D)	(D)	59,795	(D)	26,036	(D)	16,895	-27,897	55.3	19.5	12.6
100-499	390,525	1,552,447	-262,009	120,078	(D)	99,429	(D)	90,353	-237,803	69.3	25.5	23.1
500-999	107,806	(D)	(D)	22,151	(D)	34,101	250,449	35,486	-154,540	79.5	31.6	32.9
1,000+	153,234	4,044,871	-356,700	26,415	-661,166	57,139	882,978	52,343	-578,512	82.8	37.3	34.2
Total Equally Owned	732,818	5,536,227	-618,811	225,398	-1,170,490	203,463	1,340,619	176,843	-788,941	69.2	27.8	24.1
<25	34,255	(D)	(D)	23,502	(D)	6,115	(D)	1,093	(D)	31.4	17.9	3.2
25-49	39,343	(D)	(D)	22,839	(D)	7,006	(D)	2,677	(D)	41.9	17.8	6.8
50-99	78,248	(D)	(D)	36,529	(D)	15,576	(D)	8,952	-14,925	53.3	19.9	11.4
100-499	315,528	(D)	(D)	94,205	(D)	80,958	(D)	74,591	(D)	70.1	25.7	23.6
500-999	110,601	(D)	(D)	21,990	(D)	35,969	(D)	36,235	(D)	80.1	32.5	32.8
1,000+	154,844	3,132,399	-229,539	26,333	-507,386	57,839	705,482	53,296	-427,635	83.0	37.4	34.4

Note:  
D-data suppressed for avoiding disclosure.

Chart 4 Establishment Death, Expansion, and Contraction Rates by Enterprise Owner's Gender and Receipts Size, 2002-2006 (Receipts Sizes in Thousands of Dollars)



## V. Business Dynamics by State

Table 10 lists the 10 states with the highest survival and expansion rates and the largest net job gains in establishments. The state with the highest business survival rate, 76.1 percent of all employer establishments in 2002, was North Dakota, followed by Hawaii, 75.1 percent. The highest expansion rate was in Idaho, 35.5 percent, followed by Hawaii, 34.2 percent. All but two states had had a net loss of jobs by 2006 in the employer establishments that had existed in 2002.<sup>6</sup> Establishments in Hawaii had a net gain of 5,698 jobs; Nevada had a net job gain of 3,498.

<sup>6</sup> Again, these losses would likely be gains if new business creation and the concomitant job creation were included.

Table 10 Initial-year Establishments, Deaths, Expansions, and Contractions, and Change in Employment by State, Enterprise Receipts Size, and Type of Business, 2002-2006 (Non-publicly Held Businesses Only)

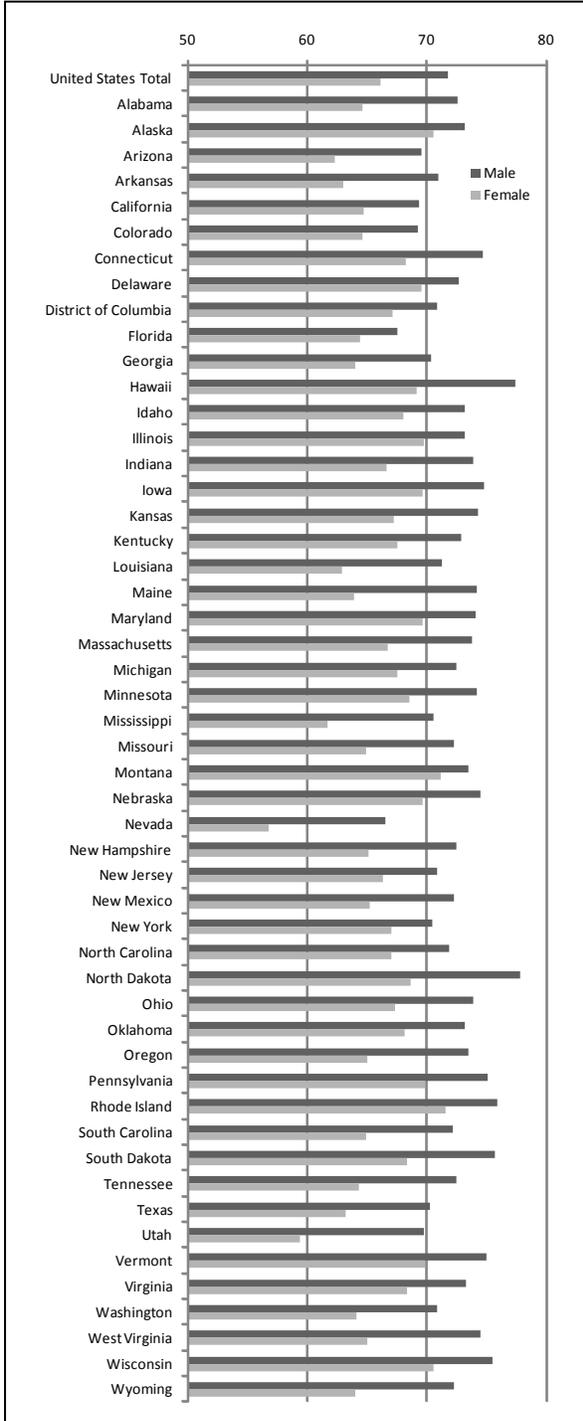
Top 10 states	Business survival	Top 10 states	Business expansion	Top 10 states	Net job gain
North Dakota	76.1	Idaho	35.3	Hawaii	5,698
Hawaii	75.1	Hawaii	34.2	Nevada	3,498
Wisconsin	74.8	New Mexico	31.9	Alaska	-3,141
Rhode Island	74.4	Alaska	31.5	Wyoming	-3,730
Vermont	74.2	Oregon	31.4	New Mexico	-7,727
Pennsylvania	74.1	Wyoming	31.2	Idaho	-7,926
South Dakota	74.0	Nevada	31.1	North Dakota	-8,626
Iowa	73.6	Washington	31.1	South Dakota	-9,777
Connecticut	73.1	Utah	30.9	Delaware	-11,464
Maryland	72.9	Virginia	30.7	District of Columbia	-13,581

Table 11 highlights the differences by state of establishments in enterprises owned by men, women, or equally by men and women. North Dakota and Hawaii had the highest survival rates for establishments in both male- and equally owned enterprises. Four states where four-year business survival rates were above 70 percent establishments within female-owned enterprises were Rhode Island, Montana, Wisconsin, and Alaska. Table 10 also shows that the business expansion rates in the top 10 states for male and female equally owned establishments were all above 30 percent; in contrast, for establishments in female-owned enterprise, only three states reached this level; and none did so in male-owned enterprises.

Chart 5 displays establishment survival and expansion rates over the 2002-2006 period. While male-owned establishments survived better (by an average of 5.6 percent, as shown in Table A5) in general, expansion rates of female-owned establishments were higher than those of male-owned establishments in 40 of the 50 states and the District of Columbia. Tables A4 and A7 provide more establishment dynamics by state and enterprise owner's gender.

Chart 5 Employer Establishment Survival and Expansion, by State of Owning Enterprise and Gender of Owner, 2002-2006 (Non-publicly Held Businesses Only)

2002-2006 Establishment Survival Rate



2002-2006 Establishment Expansion Rate

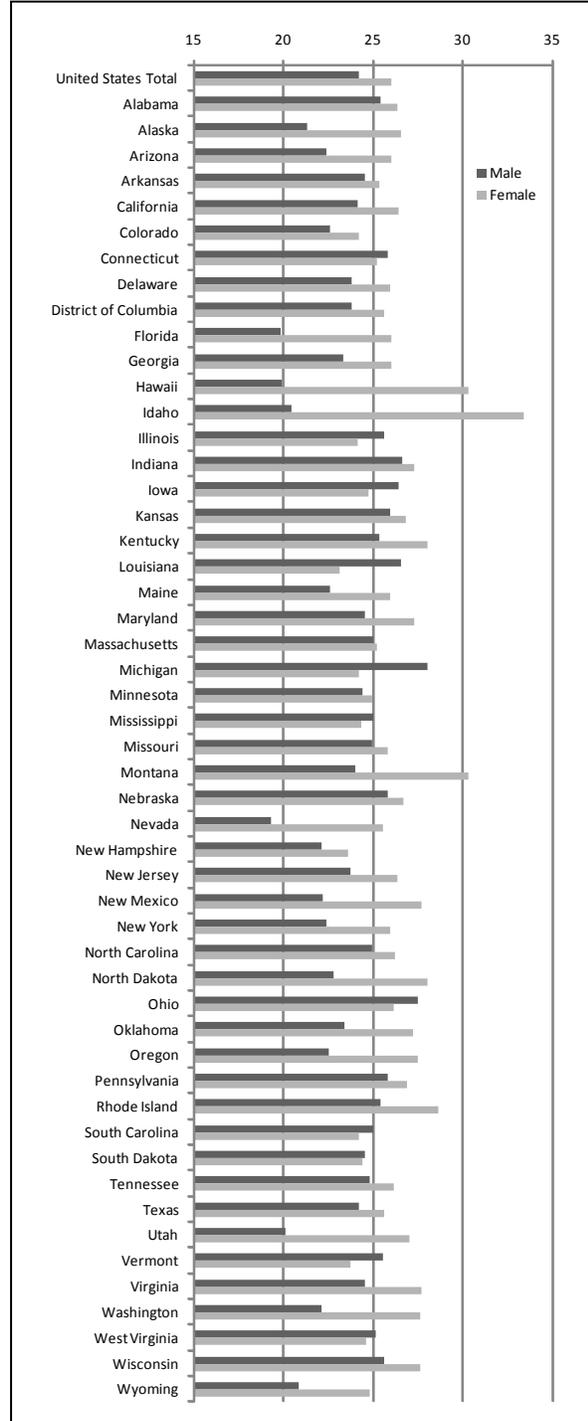


Table 11 Top Ten States for Employer Establishment Survival and Expansion Rates, by Gender of Enterprise Owner and State: 2002-2006 (Non-publicly Held Businesses Only)

Top 10 States	Male-owned	Top 10 States	Female-owned	Top 10 States	Equally owned
Survival Rates (percent)					
North Dakota	77.8	Rhode Island	71.5	North Dakota	74.1
Hawaii	77.4	Montana	71.1	Hawaii	73.9
Rhode Island	75.9	Wisconsin	70.5	Maine	72.9
South Dakota	75.7	Alaska	70.5	New Hampshire	72.7
Wisconsin	75.5	Pennsylvania	69.8	New Mexico	72.4
Pennsylvania	75.1	Vermont	69.8	Montana	72.3
Vermont	75.0	Illinois	69.7	Iowa	72.3
Iowa	74.8	Iowa	69.6	Illinois	71.6
Connecticut	74.7	Nebraska	69.6	Ohio	71.6
Nebraska	74.5	Maryland	69.6	Indiana	71.3
Expansion Rates (percent )					
Michigan	28.0	Idaho	33.4	Idaho	35.6
Ohio	27.5	Montana	30.3	Hawaii	32.3
Indiana	26.6	Hawaii	30.3	South Dakota	31.9
Louisiana	26.5	Rhode Island	28.6	Oregon	31.6
Iowa	26.4	Kentucky	28.0	Arizona	30.8
Kansas	25.9	North Dakota	28.0	Alabama	30.7
Nebraska	25.8	Virginia	27.7	Washington	30.6
Connecticut	25.8	New Mexico	27.7	Nevada	30.4
Pennsylvania	25.8	Wisconsin	27.6	Virginia	30.2
Illinois	25.6	Washington	27.6	New Mexico	30.0

## VI. *Business Dynamics and Employment*

Business expansions, by definition, create jobs. Job creation as a result of expansions was significant in the two periods during which the data were available. Over the 1997-2001 period, almost 22 million jobs were created in business expansions; in 2002-2006, more than 21 million. This data set is for businesses that were in existence in 2002.<sup>7</sup> With the employment of new startups omitted, net job losses as a result of gains from expansions minus losses from deaths and contractions of 1997 establishments was nearly 12 million over the 1997-2001 period; the net job losses from all 2002 establishments over the 2002-2006 period totaled almost 13 million (Table

<sup>7</sup> Not included here are jobs created as a result of additional businesses that formed over the period, so the net job change is more negative than it would be if all private sector job creation were included.

Table 12 Change in Employment of Establishments Due to Deaths, Expansions, and Contractions, 1997-2001 and 2002-2006

Period	Total employment (year)	Net change in employment in the period	Reasons for employment change	Change in employment
1997-2001	105,260,491 (1997)	-11,496,267 (1997-2001)	Deaths	-19,319,414
			Expansions	21,940,398
			Contractions	-14,117,251
2002-2006	106,994,852 (2002)	-12,879,973 (2002-2006)	Deaths	-18,621,805
			Expansions	21,145,177
			Contractions	-15,403,345

12). Clearly, new business creation is the key to new job creation and sustainable economic growth.

From Tables 2 and A8, job losses in female-owned establishments were more severe than in those owned by their male counterparts, -11.5 percent compared with -8.7 percent over the 2002-2006 period. In addition, women earn less than men (Table 1). Moreover, the density of businesses owned by women (45 firms per thousand women) is less than half that of men (96 firms per thousand men) in the United States. (Table 1).

## ***Appendix A-Explanation of the Data***

Data used in this report were developed by the U.S. Small Business Administration, Office of Advocacy, from data provided by the Census Bureau to the Office of Advocacy. The data track minority-owned business enterprises that responded to the 2002 Survey of Business Owners matched with the 1989-2006 Business Information Tracking Series.

Establishments, employment, annual payroll, and receipts data for subsequent year "deaths" are the 2002 data for those establishments. For example, 1,975,160 establishments operating in 2002 had closed by 2006. Those firms—in 2002—had 18,621,805 employees, \$607,106,407,000 in annual payroll, and \$3,378,088,078,000 in receipts.

Please note that a small number of estimates have extremely large relative standard errors (RSEs). They are primarily associated with "Net Change in Employment" estimates of zero and are a result of the Census RSE calculation methodology when applied to positive and negative subsample estimates (as is the case with the "Net Change in Employment" estimates). They are obviously extreme cases, but any estimate with a large RSE should be used with caution.

The U.S. Census Bureau provided tabulations for the periods of 2002-2003, 2002-2004, 2002-2005, and 2002-2006 as listed below. They are available to the public.

- Table 1: The Number of Initial-Year Establishments, Deaths, Expansions, and Contractions with Corresponding Change in Employment by Industry, Enterprise Receipts Size, and Type of Business: 2002-2003
- Table 2: The Number of Initial-Year Establishments, Deaths, Expansions, and Contractions with Corresponding Change in Employment by Industry, Enterprise Receipts Size, Gender, and Race: 2002-2003 (Non-Public Businesses Only)
- Table 3: The Number of Initial-Year Establishments, Deaths, Expansions, and Contractions with Corresponding Change in Employment by State, Enterprise Receipts Size, and Type of Business: 2002-2003
- Table 4: The Number of Initial-Year Establishments, Deaths, Expansions, and Contractions with Corresponding Change in Employment by State, Enterprise Receipts Size, Gender, and Race: 2002-2003 (Non-Public Businesses Only)
- Table 5: The Number of 2002 Establishments with Corresponding Employment, Annual Payroll, and Receipts, by Industry, Initial-Year Enterprise Employment Size, Subsequent-Year Enterprise Employment Size, and Type of Business: 2002-2003
- Table 6: The Number of 2002 Establishments with Corresponding Employment, Annual Payroll, and Receipts, by Industry, Initial-Year Enterprise Employment Size, Subsequent-Year Enterprise Employment Size, Gender, and Race: 2002-2003 (Non-Public Businesses Only)

Male/female ownership of a business in 2002 was based on the gender of the person(s) owning the majority interest in the business. However, in 2002, equally male/female ownership was based on equal shares of interest reported for businesses with male and female owners. Businesses equally male-/female-owned were tabulated and published as a separate entity.

"Public" refers to companies that are publicly held or cannot be classified by gender, ethnicity, and race.

Definitions:

<http://www.census.gov/econ/susb/definitions.html>

**Establishment:** A single physical location where business is conducted or where services or industrial operations are performed.

**Firm:** A firm is a business organization consisting of one or more domestic establishments *in the same state and industry* that were specified under common ownership or control. The firm and the establishment are the same for single-establishment firms. For each multi-establishment firm, establishments in the same industry within a state are counted as one firm: the firm employment and annual payroll are summed from the associated establishments.

**Enterprise:** An enterprise is a business organization consisting of one or more domestic establishments that were specified under common ownership or control. The enterprise and the establishment are the same for single-establishment firms. Each multi-establishment company forms one enterprise; the enterprise employment and annual payroll are summed from the associated establishments.

**Employment:** Paid employment consists of full and part-time employees, including salaried officers and executives of corporations, who were on the payroll in the pay period including March 12. Included are employees on sick leave, holidays, and vacations; not included are proprietors and partners of unincorporated businesses.

**Annual Payroll:** Total annual payroll includes all forms of compensation, such as salaries, wages, commissions, bonuses, vacation allowances, sick-leave pay, and the value of payments in kind (e.g., free meals and lodgings) paid during the year to all employees.

**Receipts:** Receipts (net of taxes) are defined as the revenue for goods produced, distributed, or services provided, including revenue earned from premiums, commissions and fees, rents, interest, dividends, and royalties. Receipts excludes all revenue collected for local, state, and federal taxes. Receipts are acquired from the Economic Census data for establishments in industries that are in scope to the Economic Census; receipts are acquired from IRS tax data for single-establishment businesses in industries that are out of scope to the Economic Census; payroll-to-receipts ratios are used to estimate receipts for multi-establishment businesses in industries that are out of scope to the Economic Census. Statistics of U.S. Businesses has receipts for 1997 and 2002 only.

**Enterprise Size:** Enterprise size designations are determined by the summed employment of all associated establishments. The enterprise size group "0" includes enterprises for which no associated establishments reported paid employees in the mid-March pay period but paid employees at some time during the year.

**Business Information Tracking Series (BITS):** A file which links establishments in the annual County Business Patterns data from year to year. We use a series of matches to link establishments across years. The primary match links establishments having the same census

identification number in both the initial and subsequent years. These are establishments which have undergone no ownership or organizational changes.

The remainder of the matches use establishment identification numbers such as the employer identification number, as well as establishment attributes like business name and address, ZIP code, and industry code to create links for establishments that have remained in existence but have undergone ownership or organizational changes which lead to changes in the census file numbers across years.

Using this file, we are able to create longitudinal tabulations. A longitudinal tabulation is a tabulation that provides a study of business entities across a span of years. A longitudinal tabulation measures the change in business entities, such as establishment births, deaths, expansions, and contractions for an industry and/or enterprise size. In contrast, nonlongitudinal tabulations show aggregate totals for an industry and/or enterprise size. Comparison of nonlongitudinal tabulations of two-year time periods do not provide explanations for changes in business entities.

**Establishment Births:** Births are establishments that have zero employment in the first quarter of the initial year and positive employment in the first quarter of the subsequent year.

**Establishment Deaths:** Deaths are establishments that have positive employment in the first quarter of the initial year and zero employment in the first quarter of the subsequent year.

**Establishment Expansions:** Expansions are establishments that have positive first quarter employment in both the initial and subsequent years and increase employment during the time period between the first quarter of the initial year and the first quarter of the subsequent year.

**Establishment Contractions:** Contractions are establishments that have positive first quarter employment in both the initial and subsequent years and decrease employment during the time period between the first quarter of the initial year and the first quarter of the subsequent year.

**Firm Closure:** To shut down or transfer the ownership of a firm. See 1989-2001 Employer Firm Births and Deaths by Employment Size of Firm at [www.sba.gov/advo/stats/dyn\\_b\\_d8901.pdf](http://www.sba.gov/advo/stats/dyn_b_d8901.pdf).

**Industry:**

- : Total
- 11: Ag. Support, Forestry, Fishing, and Hunting
- 21: Mining
- 22: Utilities
- 23: Construction
- 31-33: Manufacturing
- 42: Wholesale Trade
- 44-45: Retail Trade
- 48-49: Transportation and Warehousing
- 51: Information
- 52: Finance and Insurance
- 53: Real Estate and Rental and Leasing

- 54: Professional, Scientific, and Technical Services
- 55: Management of Companies and Enterprises
- 56: Admin., Support, Waste Mngt, and Remediation
- 61: Educational Services
- 62: Health Care and Social Assistance
- 71: Arts, Entertainment, and Recreation
- 72: Accommodation and Food Services
- 81: Other Services (except Public Administration)
- 95: Auxiliaries
- 99: Unclassified

Seven Establishment Receipts Size (in \$1,000)

- 1: Total 5: 100-499
- 2: <25 6: 500-999
- 3: 25-49 7: 1,000+
- 4: 50-99

Two Type of Business:

- 1: Total
- 2: Public
- 3: Non-Public

Gender

- 1: Total
- 2: Male
- 3: Female
- 4: Equally Owned

Race

- 1: Total 5: Other
- 2: White 6: Hispanic
- 3: Black 7: Non-Hispanic
- 4: Asian

Subsequent-Year Enterprise Employment Size:

- 1: Total 6: 20-49
- 2: Deaths 7: 50-99
- 3: <5 8: 100-499
- 4: 5-9 9: 500+
- 5: 10-19

States:

- : United States 04: Arizona
- 01: Alabama 05: Arkansas
- 02: Alaska 06: California

08: Colorado  
09: Connecticut  
10: Delaware  
11: District of Columbia  
12: Florida  
13: Georgia  
15: Hawaii  
16: Idaho  
17: Illinois  
18: Indiana  
19: Iowa  
20: Kansas  
21: Kentucky  
22: Louisiana  
23: Maine  
24: Maryland  
25: Massachusetts  
26: Michigan  
27: Minnesota  
28: Mississippi  
29: Missouri  
30: Montana  
31: Nebraska  
32: Nevada  
33: New Hampshire  
34: New Jersey  
35: New Mexico  
36: New York  
37: North Carolina  
38: North Dakota  
39: Ohio  
40: Oklahoma  
41: Oregon  
42: Pennsylvania  
44: Rhode Island  
45: South Carolina  
46: South Dakota  
47: Tennessee  
48: Texas  
49: Utah  
50: Vermont  
51: Virginia  
53: Washington  
54: West Virginia  
55: Wisconsin  
56: Wyoming

## Appendix B-Tables

Table A1 Number of Initial-year Establishments, Deaths, Expansions, and Contractions with Corresponding Change in Employment by Gender of EnterpriseOwner: 2002-2003 (Non-publicly Held Businesses Only)

Time period	Gender	Initial Year 2002		Net Change in Employment	Deaths		Expansions		Contractions	
		Establishments	Employment		Establishments	Net Change in Employment	Establishments	Net Change in Employment	Establishments	Net Change in Employment
2002-03	Total	5,485,758	53,449,766	-51,050	562,486	-2,763,026	1,735,953	8,856,309	1,345,971	-6,144,333
	Male	3,828,552	40,934,420	-126,662	374,627	-1,983,215	1,216,995	6,498,457	952,076	-4,641,904
	Female	923,978	6,963,492	73,529	107,964	(D)	287,630	1,353,429	211,964	(D)
	Equally Owned	732,818	5,536,227	1,945	79,869	(D)	231,161	(D)	181,782	-645,387
2002-04	Total	5,485,758	53,449,766	-1,627,214	967,285	-5,325,983	1,744,232	10,721,495	1,360,028	-7,022,726
	Male	3,828,552	40,934,420	-1,218,733	645,382	-3,866,964	1,233,511	7,963,577	962,251	-5,315,346
	Female	923,978	6,963,492	-227,215	187,510	-800,258	281,035	1,546,343	212,984	-973,300
	Equally Owned	732,818	5,536,227	-183,159	134,347	(D)	229,497	1,204,783	184,679	(D)
2002-05	Total	5,485,758	53,449,766	-4,061,677	1,315,125	-7,751,603	1,628,845	11,168,254	1,355,320	-7,478,328
	Male	3,828,552	40,934,420	-2,902,426	877,006	-5,634,317	1,161,949	8,423,154	960,084	-5,691,263
	Female	923,978	6,963,492	-649,660	255,766	-1,190,940	254,454	1,544,881	212,422	-1,003,601
	Equally Owned	732,818	5,536,227	-511,768	182,274	-923,903	212,297	1,192,838	182,679	-780,703
2002-06	Total	5,485,758	53,449,766	-4,988,473	1,624,156	-9,902,718	1,562,534	12,590,325	1,305,146	-7,676,080
	Male	3,828,552	40,934,420	-3,571,937	1,084,997	-7,226,491	1,118,287	9,514,529	925,162	-5,859,975
	Female	923,978	6,963,492	-801,400	313,666	-1,502,924	240,638	1,726,407	203,001	-1,024,882
	Equally Owned	732,818	5,536,227	-618,811	225,398	-1,170,490	203,463	1,340,619	176,843	-788,941

Table A2 Number of 2002 Establishments with Corresponding Employment, Annual Payroll, and Receipts by Industry, Initial-year Enterprise Employment Size, Subsequent-year Enterprise Employment Size, Gender, and Race: 2002-2006 (Non-publicly Held Businesses Only)

Death firms by 2006 NAICS	Total Establishments	Employment	Annual Payroll (\$1,000)	Receipts (\$1,000)
--: Total	1,624,156	9,902,718	243,228,114	1,148,186,633
11: Ag. Support, Forestry, Fishing, and Hunting	7,835	30,113	590,266	3,269,429
21: Mining	4,455	32,322	1,134,982	5,789,048
22: Utilities	1,004	6,232	301,174	2,733,414
23: Construction	206,918	945,535	27,812,406	138,340,877
31-33: Manufacturing	74,996	915,276	25,141,550	120,236,496
42: Wholesale Trade	93,950	536,012	17,841,952	212,827,555
44-45: Retail Trade	249,563	1,245,236	22,730,115	218,887,681
48-49: Transportation and Warehousing	57,630	327,417	8,195,473	33,472,851
51: Information	26,746	200,943	8,447,881	30,950,319
52: Finance and Insurance	63,207	262,863	11,538,950	45,279,110
53: Real Estate and Rental and Leasing	77,995	279,109	7,563,421	42,347,716
54: Professional, Scientific, and Technical Services	205,928	825,519	32,873,661	84,928,332
55: Management of Companies and Enterprises	4,368	82,240	3,981,937	6,534,267
56: Admin., Support, Waste Mngt., and Remediation	98,531	1,271,988	27,131,597	54,420,909
61: Educational Services	13,361	83,499	1,717,485	4,481,624
62: Health Care and Social Assistance	110,529	725,088	19,250,214	49,071,130
71: Arts, Entertainment, and Recreation	25,706	165,866	3,042,365	10,824,636
72: Accommodation and Food Services	155,840	1,479,357	15,157,601	52,901,222
81: Other Services (except Public Administration)	120,665	446,974	7,590,568	27,497,408
95: Auxiliaries	885	20,642	685,135	517,840
99: Unclassified	24,047	20,488	499,380	2,874,769

Table A3 Number of 2002 Establishments with Corresponding Employment, Annual Payroll, and Receipts by Industry, Initial-year Enterprise Employment Size, Subsequent-year Enterprise Employment Size, and Gender: 2002-2006 (Non-publicly Held Businesses Only)

Initial Year Enterprise Size	Subsequent Year Enterprise Size	Gender	Establishments	Employment	Annual Payroll (\$1,000)	Receipts (\$1,000)	Employee per Establishment	Payroll per Employee	Receipt per establish.
1: Total	1: Total	1: Total	5,485,758	53,449,766	1,626,998,598	7,895,771,490	9.7	30,440	1,439,322
2: <5	1: Total	1: Total	3,088,445	5,059,780	172,486,533	1,011,973,708	1.6	34,090	327,664
3: 5-9	1: Total	1: Total	903,099	5,854,363	164,901,679	799,294,814	6.5	28,167	885,058
4: 10-19	1: Total	1: Total	570,407	7,202,371	213,915,322	958,289,542	12.6	29,701	1,680,010
5: 20-49	1: Total	1: Total	396,483	9,664,950	300,364,383	1,336,606,878	24.4	31,078	3,371,158
6: 50-99	1: Total	1: Total	158,612	6,360,157	203,509,095	955,981,514	40.1	31,997	6,027,170
7: 100-499	1: Total	1: Total	200,417	9,866,870	314,275,524	1,491,529,364	49.2	31,852	7,442,130
8: 500+	1: Total	1: Total	168,295	9,441,276	257,546,063	1,342,095,669	56.1	27,279	7,974,662
1: Total	2: Deaths	1: Total	1,624,156	9,902,718	243,228,114	1,148,186,633	6.1	24,562	706,944
2: <5	2: Deaths	1: Total	1,150,858	1,577,239	42,924,976	263,551,267	1.4	27,215	229,004
3: 5-9	2: Deaths	1: Total	199,730	1,279,089	25,923,428	132,581,251	6.4	20,267	663,802
4: 10-19	2: Deaths	1: Total	108,906	1,378,848	29,450,015	136,107,719	12.7	21,358	1,249,772
5: 20-49	2: Deaths	1: Total	70,138	1,697,482	40,027,276	173,555,856	24.2	23,580	2,474,491
6: 50-99	2: Deaths	1: Total	25,050	1,001,505	25,614,708	112,889,803	40.0	25,576	4,506,579
7: 100-499	2: Deaths	1: Total	34,015	1,431,217	39,916,382	172,286,393	42.1	27,890	5,065,012
8: 500+	2: Deaths	1: Total	35,459	1,537,337	39,371,330	157,214,343	43.4	25,610	4,433,694
1: Total	3: <5	1: Total	1,856,791	4,782,016	143,614,729	782,684,304	2.6	30,032	421,525
2: <5	3: <5	1: Total	1,620,148	2,793,902	94,738,785	552,235,653	1.7	33,909	340,855
3: 5-9	3: <5	1: Total	194,863	1,162,937	28,353,367	137,771,874	6.0	24,381	707,019
4: 10-19	3: <5	1: Total	30,516	369,654	8,738,696	46,881,021	12.1	23,640	1,536,277
5: 20-49	3: <5	1: Total	8,528	212,826	5,810,918	23,655,757	25.0	27,304	2,773,893
6: 50-99	3: <5	1: Total	1,679	87,372	2,274,372	8,936,947	52.0	26,031	5,322,780
7: 100-499	3: <5	1: Total	922	93,724	2,433,790	10,480,601	101.7	25,968	11,367,246
8: 500+	3: <5	1: Total	134	61,602	1,264,801	2,722,452	459.7	20,532	20,316,806
1: Total	9: 500+	1: Total	149,152	8,308,328	241,223,686	1,296,504,160	55.7	29,034	8,692,503
2: <5	9: 500+	1: Total	724	750	742,588	4,616,490	1.0	990,117	6,376,367
3: 5-9	9: 500+	1: Total	323	2,019	124,018	683,501	6.3	61,425	2,116,102
4: 10-19	9: 500+	1: Total	542	6,301	409,077	3,603,102	11.6	64,923	6,647,790
5: 20-49	9: 500+	1: Total	1,433	30,607	1,565,431	7,242,229	21.4	51,146	5,053,893
6: 50-99	9: 500+	1: Total	1,693	60,033	2,861,428	13,221,859	35.5	47,664	7,809,722
7: 100-499	9: 500+	1: Total	19,414	979,965	34,260,723	154,196,487	50.5	34,961	7,942,541
8: 500+	9: 500+	1: Total	125,023	7,228,654	201,260,420	1,112,940,493	57.8	27,842	8,901,886
1: Total	1: Total	2: Male	3,828,552	40,934,420	1,322,690,249	6,481,490,564	10.7	32,312	1,692,935
2: <5	1: Total	2: Male	2,072,365	3,414,420	126,086,850	741,274,822	1.6	36,928	357,695
3: 5-9	1: Total	2: Male	616,655	3,997,497	123,106,532	598,950,866	6.5	30,796	971,290
4: 10-19	1: Total	2: Male	400,363	5,033,419	163,010,090	745,261,453	12.6	32,386	1,861,464
5: 20-49	1: Total	2: Male	293,778	7,159,282	241,161,508	1,099,212,263	24.4	33,685	3,741,643
6: 50-99	1: Total	2: Male	125,884	5,021,410	170,480,201	825,378,616	39.9	33,951	6,556,660
7: 100-499	1: Total	2: Male	168,213	8,058,257	269,569,282	1,318,712,853	47.9	33,453	7,839,542
8: 500+	1: Total	2: Male	151,294	8,250,136	229,275,786	1,152,699,691	54.5	27,791	7,618,939
1: Total	2: Deaths	2: Male	1,084,997	7,226,491	191,446,176	912,280,625	6.7	26,492	840,814
2: <5	2: Deaths	2: Male	750,708	1,025,958	30,451,615	188,700,735	1.4	29,681	251,364
3: 5-9	2: Deaths	2: Male	130,505	833,437	18,563,725	96,376,333	6.4	22,274	738,488
4: 10-19	2: Deaths	2: Male	72,894	917,928	21,506,205	100,436,257	12.6	23,429	1,377,840
5: 20-49	2: Deaths	2: Male	50,374	1,212,976	31,345,262	139,453,276	24.1	25,842	2,768,358
6: 50-99	2: Deaths	2: Male	19,548	764,149	20,999,340	95,425,184	39.1	27,481	4,881,583

7: 100-499	2: Deaths	2: Male	29,038	1,163,864	34,154,618	150,985,411	40.1	29,346	5,199,580
8: 500+	2: Deaths	2: Male	31,930	1,308,178	34,425,410	140,903,429	41.0	26,316	4,412,885
1: Total	3: <5	2: Male	1,264,268	3,296,831	105,873,678	580,540,916	2.6	32,114	459,191
2: <5	3: <5	2: Male	1,104,417	1,912,438	69,434,763	404,876,265	1.7	36,307	366,597
3: 5-9	3: <5	2: Male	131,011	781,971	20,672,782	100,634,528	6.0	26,437	768,138
4: 10-19	3: <5	2: Male	20,806	252,084	6,416,645	37,057,968	12.1	25,454	1,781,119
5: 20-49	3: <5	2: Male	5,907	(D)	(D)	(D)	(D)	(D)	(D)
6: 50-99	3: <5	2: Male	1,266	(D)	(D)	(D)	(D)	(D)	(D)
7: 100-499	3: <5	2: Male	741	(D)	(D)	(D)	(D)	(D)	(D)
8: 500+	3: <5	2: Male	120	(D)	(D)	(D)	(D)	(D)	(D)
1: Total	9: 500+	2: Male	132,984	7,246,736	214,270,954	1,110,604,341	54.5	29,568	8,351,413
2: <5	9: 500+	2: Male	521	(D)	(D)	(D)	(D)	(D)	(D)
3: 5-9	9: 500+	2: Male	279	(D)	(D)	(D)	(D)	(D)	(D)
4: 10-19	9: 500+	2: Male	431	(D)	(D)	(D)	(D)	(D)	(D)
5: 20-49	9: 500+	2: Male	1,183	(D)	(D)	(D)	(D)	(D)	(D)
6: 50-99	9: 500+	2: Male	1,487	(D)	(D)	(D)	(D)	(D)	(D)
7: 100-499	9: 500+	2: Male	16,403	777,231	28,843,174	135,123,667	47.4	37,110	8,237,741
8: 500+	9: 500+	2: Male	112,680	6,384,729	180,506,564	949,415,925	56.7	28,272	8,425,771
1: Total	1: Total	3: Female	923,978	6,963,492	174,161,403	795,596,276	7.5	25,011	861,055
2: <5	1: Total	3: Female	588,596	925,267	25,571,078	140,401,543	1.6	27,636	238,536
3: 5-9	1: Total	3: Female	151,655	980,416	21,888,976	96,868,028	6.5	22,326	638,739
4: 10-19	1: Total	3: Female	85,987	1,098,283	26,309,679	103,392,334	12.8	23,955	1,202,418
5: 20-49	1: Total	3: Female	51,456	1,278,364	32,129,998	117,541,932	24.8	25,134	2,284,319
6: 50-99	1: Total	3: Female	17,214	719,907	19,121,598	73,135,505	41.8	26,561	4,248,606
7: 100-499	1: Total	3: Female	18,191	1,105,388	28,918,259	107,051,646	60.8	26,161	5,884,869
8: 500+	1: Total	3: Female	10,879	855,867	20,221,815	157,205,288	78.7	23,627	14,450,344
1: Total	2: Deaths	3: Female	313,666	1,502,924	29,576,659	126,306,422	4.8	19,679	402,678
2: <5	2: Deaths	3: Female	239,024	(D)	(D)	(D)	(D)	(D)	(D)
3: 5-9	2: Deaths	3: Female	38,200	244,848	3,958,048	17,796,684	6.4	16,165	465,882
4: 10-19	2: Deaths	3: Female	18,914	241,834	4,201,123	17,756,060	12.8	17,372	938,779
5: 20-49	2: Deaths	3: Female	9,988	(D)	(D)	(D)	(D)	(D)	(D)
6: 50-99	2: Deaths	3: Female	2,638	(D)	(D)	(D)	(D)	(D)	(D)
7: 100-499	2: Deaths	3: Female	2,805	(D)	(D)	(D)	(D)	(D)	(D)
8: 500+	2: Deaths	3: Female	2,096	(D)	(D)	(D)	(D)	(D)	(D)
1: Total	3: <5	3: Female	335,748	(D)	(D)	(D)	(D)	(D)	(D)
2: <5	3: <5	3: Female	295,198	491,135	13,771,024	75,121,157	1.7	28,039	254,477
3: 5-9	3: <5	3: Female	33,822	(D)	(D)	(D)	(D)	(D)	(D)
4: 10-19	3: <5	3: Female	5,009	60,278	1,183,325	4,689,886	12.0	19,631	936,292
5: 20-49	3: <5	3: Female	1,389	32,672	764,306	2,591,154	23.5	23,393	1,865,482
6: 50-99	3: <5	3: Female	232	(D)	(D)	(D)	(D)	(D)	(D)
7: 100-499	3: <5	3: Female	88	(D)	(D)	(D)	(D)	(D)	(D)
8: 500+	3: <5	3: Female	10	(D)	(D)	(D)	(D)	(D)	(D)
1: Total	9: 500+	3: Female	10,245	729,929	18,868,361	149,848,558	71.2	25,850	14,626,506
2: <5	9: 500+	3: Female	127	(D)	(D)	(D)	(D)	(D)	(D)
3: 5-9	9: 500+	3: Female	17	(D)	(D)	(D)	(D)	(D)	(D)
4: 10-19	9: 500+	3: Female	75	(D)	(D)	(D)	(D)	(D)	(D)
5: 20-49	9: 500+	3: Female	139	(D)	(D)	(D)	(D)	(D)	(D)
6: 50-99	9: 500+	3: Female	112	(D)	(D)	(D)	(D)	(D)	(D)
7: 100-499	9: 500+	3: Female	1,726	(D)	(D)	(D)	(D)	(D)	(D)
8: 500+	9: 500+	3: Female	8,050	(D)	(D)	(D)	(D)	(D)	(D)

Table A4 Survival, Expansion, and Contraction Rates of 2002 Establishments  
by State of Owning Enterprise: 2002-2006 (Non-publicly Held Businesses Only)

Establishment's Location	Rate of:			Net job changes	Percentage change of employment due to:		
	Survival	Expansion	Contraction		Death	Expansion	Contraction
United States Total	70.4	28.5	23.8	-4,988,473	-18.5	23.6	-14.4
Alabama	70.7	29.8	24.5	-67,562	-18.0	22.7	-13.1
Alaska	72.0	31.5	22.5	-3,141	-17.7	29.6	-14.7
Arizona	67.9	29.7	21.8	-24,678	-21.0	32.1	-13.7
Arkansas	69.0	28.1	23.9	-53,477	-18.3	20.6	-14.2
California	68.1	28.1	23.9	-757,266	-20.4	25.2	-16.1
Colorado	68.4	26.8	22.4	-91,011	-20.3	24.0	-13.7
Connecticut	73.1	28.7	25.6	-65,101	-15.5	19.8	-14.4
Delaware	71.8	28.7	23.1	-11,464	-16.9	22.5	-12.6
District of Columbia	69.5	27.7	23.7	-13,581	-20.1	22.7	-14.1
Florida	66.6	28.7	19.5	-212,557	-25.7	32.4	-13.9
Georgia	68.6	28.6	22.5	-148,612	-20.1	24.6	-14.4
Hawaii	75.1	34.2	20.7	5,698	-15.3	28.5	-10.5
Idaho	71.7	35.3	19.8	-7,926	-16.5	28.3	-14.9
Illinois	72.3	27.1	25.5	-258,127	-17.7	21.8	-14.6
Indiana	72.4	28.8	26.1	-90,774	-15.7	21.8	-13.8
Iowa	73.6	27.8	25.8	-49,443	-15.0	19.2	-13.0
Kansas	72.5	27.9	25.4	-57,811	-16.1	19.3	-14.2
Kentucky	71.4	29.2	24.8	-61,872	-17.8	21.9	-13.4
Louisiana	69.4	26.7	26.2	-102,584	-20.2	23.4	-15.8
Maine	72.3	28.8	21.8	-25,564	-16.0	18.5	-12.6
Maryland	72.9	30.2	24.0	-53,840	-16.4	24.0	-13.2
Massachusetts	72.3	27.9	24.8	-126,013	-15.6	20.6	-14.7
Michigan	71.3	25.7	27.4	-287,813	-18.3	19.7	-16.6
Minnesota	72.8	28.2	24.3	-70,871	-15.6	22.0	-13.2
Mississippi	68.6	28.2	24.6	-44,134	-19.5	23.3	-13.9
Missouri	70.5	28.5	24.2	-110,816	-16.7	20.1	-13.3
Montana	72.7	29.6	23.3	-18,867	-17.1	20.7	-14.2
Nebraska	72.8	27.9	25.2	-46,479	-15.9	17.4	-14.2
Nevada	64.2	31.1	19.1	3,498	-21.7	36.5	-14.0
New Hampshire	71.2	29.3	23.0	-21,357	-18.6	22.0	-11.3
New Jersey	70.0	27.6	23.3	-203,097	-18.6	21.2	-14.2
New Mexico	70.9	31.9	22.3	-7,727	-17.1	27.4	-13.0
New York	69.8	26.6	22.3	-431,513	-18.4	20.8	-15.3
North Carolina	70.6	28.8	24.3	-150,082	-18.6	23.0	-14.0
North Dakota	76.1	30.4	22.2	-8,626	-15.8	20.6	-11.4
Ohio	72.6	27.9	27.0	-226,261	-16.7	20.7	-14.2
Oklahoma	71.4	28.9	23.2	-42,805	-19.2	25.5	-13.3
Oregon	71.4	31.4	21.9	-33,809	-17.6	25.1	-12.5
Pennsylvania	74.1	29.0	25.5	-212,713	-15.4	19.7	-13.5
Rhode Island	74.4	28.4	25.1	-26,886	-16.0	18.0	-15.2
South Carolina	70.7	29.0	24.8	-67,949	-18.0	22.5	-14.1
South Dakota	74.0	30.0	24.2	-9,777	-15.0	20.9	-12.3
Tennessee	70.4	30.1	24.2	-61,061	-18.2	25.3	-13.3
Texas	68.7	28.2	24.0	-377,691	-20.3	25.4	-15.1
Utah	67.6	30.9	19.6	-21,235	-21.2	30.6	-14.2
Vermont	74.2	27.7	26.4	-15,028	-15.5	18.2	-13.4
Virginia	72.1	30.7	24.0	-71,732	-16.5	24.9	-13.7

Washington	69.6	31.1	21.9	-32,757	-17.3	26.9	-12.8
West Virginia	72.3	29.6	24.7	-27,024	-16.4	19.2	-13.4
Wisconsin	74.8	29.5	25.9	-83,429	-14.0	19.8	-12.7
Wyoming	71.5	31.2	21.6	-3,730	-16.4	26.0	-13.3

Table A5 Survival, Expansion and Contraction Rates of 2002 Establishments  
by Gender of Enterprise Owner and State: 2002-2006 (Non-publicly Held Businesses Only)

	Survival rate			Expansion rate			Contraction rate		
	Male	Female	Equal	Male	female	Equal	Male	Female	Equal
United States Total	71.7	66.1	69.2	24.2	26.0	27.8	29.2	22.0	24.1
Alabama	72.5	64.6	67.1	25.4	26.3	30.7	30.4	21.3	23.0
Alaska	73.1	70.5	69.3	21.3	26.5	27.9	34.0	25.7	22.1
Arizona	69.5	62.3	67.7	22.4	26.0	30.8	30.3	19.4	21.9
Arkansas	70.9	63.0	67.2	24.5	25.3	28.0	28.9	22.3	23.0
California	69.3	64.7	67.1	24.1	26.4	26.9	28.8	21.8	25.4
Colorado	69.2	64.6	69.8	22.6	24.2	26.2	27.7	20.4	24.1
Connecticut	74.7	68.2	69.4	25.8	25.2	26.2	29.8	23.8	26.6
Delaware	72.6	69.5	70.7	23.8	25.9	26.9	29.8	21.7	21.6
District of Columbia	70.8	67.1	65.1	23.8	25.6	23.8	29.0	23.1	23.9
Florida	67.5	64.4	64.9	19.8	26.0	28.4	29.6	18.7	19.0
Georgia	70.3	64.0	64.9	23.3	26.0	26.8	29.5	19.6	21.3
Hawaii	77.4	69.1	73.9	19.9	30.3	32.3	36.1	20.6	24.2
Idaho	73.1	68.0	70.3	20.4	33.4	35.6	35.6	18.3	19.3
Illinois	73.1	69.7	71.6	25.6	24.1	26.1	28.0	24.1	26.8
Indiana	73.8	66.6	71.3	26.6	27.3	28.0	29.3	23.2	27.0
Iowa	74.8	69.6	72.3	26.4	24.7	28.1	28.4	24.3	24.6
Kansas	74.2	67.2	70.7	25.9	26.8	26.3	28.5	23.4	25.7
Kentucky	72.8	67.5	68.4	25.3	28.0	23.9	30.5	20.6	26.8
Louisiana	71.2	62.9	68.1	26.5	23.1	26.1	27.7	24.9	26.2
Maine	74.1	63.9	72.9	22.6	25.9	26.3	30.1	17.8	22.4
Maryland	74.0	69.6	70.6	24.5	27.3	28.7	31.2	22.7	23.5
Massachusetts	73.7	66.7	71.0	25.0	25.2	25.3	28.9	23.3	25.9
Michigan	72.4	67.5	69.7	28.0	24.2	26.0	26.0	25.1	26.6
Minnesota	74.1	68.5	71.2	24.4	24.9	27.5	29.0	23.2	24.6
Mississippi	70.5	61.7	67.3	25.0	24.3	29.1	28.9	23.9	23.4
Missouri	72.2	64.9	69.9	24.9	25.8	28.3	29.2	22.7	23.3
Montana	73.4	71.1	72.3	24.0	30.3	27.8	29.9	19.1	24.7
Nebraska	74.5	69.6	69.7	25.8	26.7	27.3	28.3	25.1	23.2
Nevada	66.5	56.7	62.2	19.3	25.5	30.4	32.6	18.8	18.4
New Hampshire	72.4	65.1	72.7	22.1	23.6	29.5	30.6	22.8	27.6
New Jersey	70.8	66.3	69.5	23.7	26.3	28.7	27.7	20.8	24.0
New Mexico	72.2	65.2	72.4	22.2	27.7	30.0	33.8	19.9	25.2
New York	70.4	67.0	70.0	22.4	25.9	25.2	26.9	20.6	24.0
North Carolina	71.8	67.0	68.7	24.9	26.2	29.0	29.4	23.4	22.6
North Dakota	77.8	68.6	74.1	22.8	28.0	23.8	32.4	21.2	20.5
Ohio	73.8	67.3	71.6	27.5	26.1	26.0	28.5	24.0	27.3
Oklahoma	73.1	68.1	32.2	23.4	27.2	26.6	29.9	22.2	23.6
Oregon	73.4	65.0	29.5	22.5	27.5	31.6	32.4	20.2	21.7
Pennsylvania	75.1	69.8	27.2	25.8	26.9	27.0	29.7	23.5	26.0
Rhode Island	75.9	71.5	29.6	25.4	28.6	24.0	29.3	22.7	26.0
South Carolina	72.1	64.9	30.1	25.0	24.2	29.1	30.1	24.3	23.9
South Dakota	75.7	68.3	27.6	24.5	24.4	31.9	30.7	28.1	19.9
Tennessee	72.4	64.3	33.9	24.8	26.1	27.5	31.3	21.9	23.5
Texas	70.2	63.2	31.6	24.2	25.6	27.8	29.0	22.2	25.3
Utah	69.7	59.3	35.2	20.1	27.0	28.7	32.1	16.5	19.4
Vermont	75.0	69.8	25.4	25.5	23.7	25.1	29.5	25.1	30.4
Virginia	73.2	68.3	28.2	24.5	27.7	30.2	31.5	22.1	24.2
Washington	70.8	64.1	29.4	22.1	27.6	30.6	32.1	20.4	22.4

West Virginia	74.4	65.0	30.7	25.1	24.6	27.8	31.0	22.8	24.9
Wisconsin	75.5	70.5	24.1	25.6	27.6	29.2	30.0	25.8	27.2
Wyoming	72.2	64.0	24.3	20.8	24.8	29.6	33.4	19.3	25.7

Table A6 Number of Initial-year Establishments, Deaths, Expansions, and Contractions with Corresponding Change in Employment by Industry, Enterprise Receipts Size, Type of Business, Race, and Ethnicity: 2002-2006

NAICS	Initial Year		Net Change in Employment	Deaths		Expansions		Contractions	
	Establishments	Employment		Establishments	Net Change in Employment	Establishments	Net Change in Employment	Establishments	Net Change in Employment
--: Total	6,807,798	106,994,852	-12,879,973	1,975,160	-18,621,805	1,984,860	21,145,177	1,685,815	-15,403,345
11: Ag. Support, Forestry, Fishing, and Hunting	25,507	173,925	-33,120	8,382	-34,626	6,019	32,272	6,253	-30,767
21: Mining	23,629	463,553	-23,104	6,162	-88,351	8,101	130,757	4,939	-65,510
22: Utilities	17,249	628,264	-112,452	4,363	-78,541	4,640	64,268	4,921	-98,179
23: Construction	705,331	6,354,968	-356,670	215,408	-1,137,111	212,220	1,863,550	165,073	-1,083,109
31-33: Manufacturing	341,612	14,315,039	-1,914,228	85,811	-1,898,801	110,947	2,019,297	104,892	-2,034,724
42: Wholesale Trade	430,472	5,803,230	-596,652	114,895	-1,009,838	127,839	1,200,474	109,513	-787,288
44-45: Retail Trade	1,116,389	14,746,149	-1,535,294	307,529	-2,148,092	337,870	2,381,595	306,209	-1,768,796
48-49: Transportation and Warehousing	190,526	3,065,225	-559,172	67,286	-582,387	53,805	599,416	40,347	-576,201
51: Information	137,230	3,505,965	-980,802	49,826	-888,770	32,497	585,579	35,632	-677,610
52: Finance and Insurance	441,085	6,317,308	-1,426,247	133,948	-1,574,822	123,928	1,179,771	91,726	-1,031,196
53: Real Estate and Rental and Leasing	319,233	2,021,384	-322,622	93,222	-428,321	79,381	415,731	67,454	-310,032
54: Professional, Scientific, and Technical Services	764,643	6,943,433	-783,177	227,785	-1,398,676	201,039	1,763,830	164,174	-1,148,331
55: Management of Companies and Enterprises	48,767	2,916,988	-527,677	14,767	-535,480	13,755	620,864	13,160	-613,061
56: Admin., Support, Waste Mngt., and Remedial	339,426	8,117,615	-1,162,650	118,336	-2,245,907	94,566	2,614,707	76,198	-1,531,450
61: Educational Services	68,899	2,530,456	91,414	17,879	-187,586	24,740	499,248	17,053	-220,249
62: Health Care and Social Assistance	685,721	13,695,738	-314,221	141,455	-1,428,119	230,095	2,480,629	183,177	-1,366,731
71: Arts, Entertainment, and Recreation	105,531	1,653,729	-165,065	29,770	-243,008	28,830	328,261	25,141	-250,318
72: Accommodation and Food Services	559,128	10,004,527	-1,547,301	176,212	-1,964,132	173,747	1,638,467	155,439	-1,221,636
81: Other Services (except Public Administration)	440,315	2,694,169	-449,210	132,511	-557,259	111,099	515,329	109,903	-407,280
95: Auxiliaries	13,639	1,013,432	-168,518	4,238	-170,360	3,867	180,790	3,948	-178,948
99: Unclassified	33,466	29,754	6,795	25,375	-21,618	5,875	30,342	664	-1,930
--: Total Male	3,828,552	40,934,420	-3,571,937	1,084,997	-7,226,491	1,118,287	9,514,529	925,162	-5,859,975
11: Ag. Support, Forestry, Fishing, and Hunting	16,809	109,415	-20,768	5,418	(D)	4,048	(D)	4,180	(D)
21: Mining	14,315	156,507	10,615	3,476	-27,554	5,267	56,401	2,683	-18,232
22: Utilities	2,706	(D)	(D)	827	(D)	731	(D)	470	(D)
23: Construction	540,809	4,583,510	-117,283	166,286	-756,246	161,680	1,384,057	125,635	-745,093
31-33: Manufacturing	216,442	5,248,356	-459,391	52,757	-736,945	72,330	955,196	64,896	-677,642

42: Wholesale Trade	268,486	2,847,306	-131,070	67,762	-415,564	83,135	632,953	67,685	-348,459
44-45: Retail Trade	538,974	5,341,519	-664,452	152,368	-866,419	157,187	890,886	141,844	-688,919
48-49: Transportation and Warehousing	114,533	1,292,294	-105,473	40,069	-245,718	32,833	321,839	23,512	-181,594
51: Information	54,881	743,907	-113,989	19,215	-158,571	13,989	164,278	12,877	-119,696
52: Finance and Insurance	186,415	1,175,733	-71,803	48,212	-223,114	55,044	323,987	36,562	-172,676
53: Real Estate and Rental and Leasing	175,982	1,108,805	-129,228	50,202	-213,768	44,938	240,044	36,687	-155,505
54: Professional, Scientific, and Technical Services	506,514	3,520,570	-264,465	142,962	-619,812	136,017	961,759	107,941	-606,413
55: Management of Companies and Enterprises	16,071	465,807	-16,944	3,512	-74,342	5,258	147,082	4,738	-89,683
56: Admin., Support, Waste Mngt., and Remedia.	189,436	3,567,718	-260,162	63,472	-929,881	54,201	1,307,704	41,565	-637,986
61: Educational Services	17,529	225,660	1,062	5,703	-42,439	5,505	69,545	3,585	-26,044
62: Health Care and Social Assistance	355,412	3,417,108	-180,338	68,509	-487,090	113,533	726,560	94,041	-419,808
71: Arts, Entertainment, and Recreation	49,884	590,940	-63,471	15,527	-112,830	13,011	133,489	11,262	-84,131
72: Accommodation and Food Services	291,502	4,945,382	-764,299	90,405	-976,082	92,385	841,261	80,640	-629,477
81: Other Services (except Public Administration)	248,726	1,448,551	-217,485	72,492	-280,452	62,617	281,196	63,084	-218,228
95: Auxiliaries	3,114	(D)	(D)	761	(D)	1,022	(D)	907	(D)
99: Unclassified	20,010	(D)	(D)	15,064	-12,477	3,560	18,831	372	-1,196
--: Total Female	923,978	6,963,492	-801,400	313,666	-1,502,924	240,638	1,726,407	203,001	-1,024,882
11: Ag. Support, Forestry, Fishing, and Hunting	2,265	(D)	(D)	917	(D)	382	(D)	503	(D)
21: Mining	1,688	(D)	(D)	389	(D)	485	(D)	436	(D)
22: Utilities	329	(D)	(D)	86	(D)	74	(D)	113	(D)
23: Construction	49,557	(D)	(D)	16,569	(D)	14,741	(D)	11,964	(D)
31-33: Manufacturing	38,867	619,203	-83,656	11,939	(D)	10,777	102,765	11,089	(D)
42: Wholesale Trade	44,216	376,222	(D)	13,273	(D)	11,500	(D)	11,036	-47,780
44-45: Retail Trade	150,985	847,572	-153,570	53,714	(D)	37,248	(D)	35,470	-124,386
48-49: Transportation and Warehousing	19,581	(D)	(D)	7,624	(D)	4,893	(D)	4,135	-27,294
51: Information	11,939	132,042	-18,418	4,330	(D)	2,847	29,224	2,557	(D)
52: Finance and Insurance	33,282	132,525	-8,849	9,994	(D)	8,714	33,583	6,315	(D)
53: Real Estate and Rental and Leasing	49,947	173,370	-23,947	16,460	(D)	10,820	(D)	8,734	(D)
54: Professional, Scientific, and Technical Services	129,529	579,558	-57,409	43,025	-141,676	31,126	171,289	24,870	-87,023
55: Management of Companies and Enterprises	2,184	(D)	(D)	529	(D)	669	9,837	580	(D)
56: Admin., Support, Waste Mngt., and Remedia	59,365	934,867	-53,556	21,898	(D)	15,415	348,692	12,673	(D)
61: Educational Services	15,625	(D)	(D)	5,304	-24,950	4,773	(D)	3,082	-13,833
62: Health Care and Social Assistance	115,846	941,283	(D)	32,058	-161,724	36,179	(D)	25,851	(D)
71: Arts, Entertainment, and Recreation	16,319	(D)	(D)	6,059	(D)	3,830	26,566	3,238	(D)
72: Accommodation and Food Services	89,151	(D)	(D)	33,901	(D)	24,929	(D)	20,947	(D)
81: Other Services (except Public Administration)	85,121	(D)	(D)	29,421	(D)	19,800	(D)	19,135	-58,993
95: Auxiliaries	312	(D)	(D)	72	(D)	95	(D)	98	(D)
99: Unclassified	7,869	6,971	(D)	6,104	-5,098	1,341	5,745	173	-464

--: Total Equally Owned	732,818	5,536,227	-618,811	225,398	-1,170,490	203,463	1,340,619	176,843	-788,941
11: Ag. Support, Forestry, Fishing, and Hunting	4,310	(D)	(D)	1,499	(D)	961	(D)	1,003	(D)
21: Mining	2,173	(D)	(D)	588	(D)	645	(D)	421	(D)
22: Utilities	411	(D)	(D)	88	(D)	110	(D)	91	(D)
23: Construction	87,134	(D)	(D)	24,053	(D)	27,139	187,115	20,783	-86,412
31-33: Manufacturing	37,551	(D)	(D)	10,298	(D)	11,283	(D)	10,164	(D)
42: Wholesale Trade	44,126	(D)	(D)	12,899	(D)	11,773	106,510	10,438	(D)
44-45: Retail Trade	139,969	919,538	-156,555	43,460	(D)	37,951	166,710	36,413	(D)
48-49: Transportation and Warehousing	26,909	(D)	(D)	9,932	(D)	6,821	40,264	5,270	(D)
51: Information	9,329	(D)	(D)	3,196	(D)	2,287	(D)	2,072	(D)
52: Finance and Insurance	19,735	(D)	(D)	5,000	(D)	5,575	(D)	4,126	(D)
53: Real Estate and Rental and Leasing	38,055	(D)	(D)	11,321	(D)	9,417	(D)	7,260	(D)
54: Professional, Scientific, and Technical Services	62,316	(D)	(D)	19,932	(D)	15,109	(D)	12,751	(D)
55: Management of Companies and Enterprises	1,502	(D)	(D)	326	(D)	435	(D)	492	(D)
56: Admin., Support, Waste Mngt., and Remedia	41,147	428,345	-34,741	13,155	(D)	11,509	(D)	10,337	(D)
61: Educational Services	7,512	(D)	(D)	2,354	-16,110	2,270	(D)	1,596	-9,940
62: Health Care and Social Assistance	38,946	(D)	(D)	9,963	-76,274	13,018	(D)	10,036	(D)
71: Arts, Entertainment, and Recreation	12,508	(D)	(D)	4,120	(D)	3,208	26,787	2,658	(D)
72: Accommodation and Food Services	92,181	1,113,785	-217,785	31,533	(D)	26,886	197,930	24,453	(D)
81: Other Services (except Public Administration)	62,976	335,798	(D)	18,753	(D)	16,365	(D)	16,338	-45,826
95: Auxiliaries	265	(D)	(D)	51	(D)	87	(D)	65	(D)
99: Unclassified	3,763	3,813	870	2,879	-2,912	615	3,985	77	-203

Table A7 Number of Initial-year Establishments, Deaths, Expansions, and Contractions with Corresponding Change in Employment by State, Enterprise Receipts Size, and Type of Business: 2002-2006

State	Initial Year		Net Change in Employment	Deaths		Expansions		Contractions	
	Establishments	Employment		Establishments	Net Change in Employment	Establishments	Net Change in Employment	Establishments	Net Change in Employment
--: United States: Total	6,807,798	106,994,852	-12,879,973	1,975,160	-18,621,805	1,984,860	21,145,177	1,685,815	-15,403,345
01: Alabama	93,288	1,494,809	-154,538	26,203	-248,836	28,371	296,398	23,860	-202,100
02: Alaska	17,716	195,057	-6,098	4,739	-29,807	5,673	48,997	4,234	-25,289
04: Arizona	115,432	1,871,325	-159,101	36,270	-383,382	35,146	504,219	26,455	-279,938
05: Arkansas	59,496	927,601	-85,116	17,153	-134,328	17,603	166,236	14,976	-117,024
06: California	790,806	12,274,725	-1,579,625	245,532	-2,337,994	227,919	2,662,701	196,024	-1,904,332
08: Colorado	137,227	1,814,181	-267,809	42,799	-362,271	37,663	356,965	32,329	-262,503
09: Connecticut	87,860	1,512,811	-230,587	23,653	-237,436	25,806	240,451	23,185	-233,601
10: Delaware	23,087	379,508	-65,038	6,679	-80,807	6,488	63,463	5,178	-47,694
11: District of Columbia	16,588	348,585	-42,169	5,047	-54,772	4,699	63,896	4,326	-51,293
12: Florida	430,725	6,064,597	-730,486	140,368	-1,404,410	127,503	1,541,722	89,851	-867,798
13: Georgia	195,368	3,215,193	-441,316	60,366	-602,312	56,831	630,483	46,313	-469,487
15: Hawaii	28,386	409,828	-11,468	6,964	-57,105	9,650	90,815	6,380	-45,178
16: Idaho	36,936	429,024	-19,863	10,215	-68,733	12,971	103,385	7,602	-54,515
17: Illinois	292,077	4,969,810	-688,183	81,047	-854,403	80,709	899,117	76,633	-732,897
18: Indiana	137,129	2,379,895	-218,312	36,756	-336,837	40,745	441,732	36,685	-323,207
19: Iowa	75,542	1,168,714	-109,946	19,236	-154,628	21,803	189,285	19,753	-144,604
20: Kansas	69,643	1,047,360	-134,289	18,728	-148,983	19,838	165,602	18,320	-150,908
21: Kentucky	84,638	1,375,797	-146,130	23,085	-210,298	25,540	247,963	21,770	-183,796
22: Louisiana	95,904	1,508,641	-247,032	28,717	-275,887	26,234	283,240	25,938	-254,385
23: Maine	37,943	477,666	-52,094	10,138	-70,116	11,213	76,165	8,590	-58,143
24: Maryland	125,858	1,968,119	-201,206	34,106	-324,920	39,203	388,436	31,096	-264,722
25: Massachusetts	167,027	2,897,571	-374,964	46,539	-470,214	47,473	513,304	43,086	-418,055
26: Michigan	224,134	3,775,505	-603,358	63,109	-615,743	60,112	636,153	62,401	-623,768
27: Minnesota	133,743	2,203,280	-212,916	35,636	-337,801	38,803	428,097	33,800	-303,211
28: Mississippi	55,025	831,653	-116,289	16,573	-147,733	15,814	148,244	14,007	-116,800
29: Missouri	139,990	2,254,447	-246,273	40,267	-347,114	40,656	399,659	35,226	-298,818
30: Montana	31,106	286,562	-24,079	8,295	-44,164	9,519	56,477	7,300	-36,392
31: Nebraska	46,831	700,777	-66,986	12,291	-96,559	13,482	126,054	12,131	-96,481
32: Nevada	49,335	901,037	-24,920	17,186	-167,355	15,489	251,789	10,000	-109,355
33: New Hampshire	36,632	537,326	-55,997	10,028	-78,974	10,961	91,106	8,945	-68,128
34: New Jersey	227,690	3,450,301	-544,437	69,030	-667,430	63,435	640,105	54,721	-517,112

35: New Mexico	41,033	519,873	-34,886	11,634	-96,621	13,453	124,334	9,409	-62,599
36: New York	472,438	6,792,985	-883,344	140,301	-1,133,999	128,945	1,251,834	110,519	-1,001,180
37: North Carolina	193,968	3,177,461	-409,426	55,675	-545,925	56,704	607,870	49,639	-471,372
38: North Dakota	19,527	241,946	-12,025	4,449	-34,598	6,205	46,115	4,404	-23,541
39: Ohio	253,864	4,571,983	-547,589	68,471	-707,628	72,197	817,679	70,925	-657,641
40: Oklahoma	79,852	1,132,295	-129,291	22,199	-197,571	23,292	229,284	19,393	-161,004
41: Oregon	96,309	1,267,350	-94,480	26,837	-207,884	31,035	270,273	21,784	-156,869
42: Pennsylvania	277,477	4,843,677	-584,357	70,490	-742,049	81,840	829,996	73,847	-672,304
44: Rhode Island	27,263	394,750	-43,040	6,936	-56,585	8,039	66,554	7,008	-53,010
45: South Carolina	91,863	1,459,806	-188,498	25,902	-239,912	27,445	261,125	23,802	-209,711
46: South Dakota	22,563	281,906	-18,917	5,789	-45,040	6,964	56,977	5,375	-30,854
47: Tennessee	121,215	2,172,179	-208,937	34,640	-359,904	37,480	444,879	30,700	-293,913
48: Texas	457,019	7,600,683	-1,017,054	140,520	-1,510,733	132,747	1,621,895	113,178	-1,128,216
49: Utah	56,836	826,000	-79,430	18,520	-169,513	17,491	203,259	11,834	-113,177
50: Vermont	20,046	251,767	-27,382	4,960	-34,107	5,802	40,634	5,250	-33,909
51: Virginia	169,537	2,788,453	-310,404	46,759	-463,430	52,395	555,848	42,860	-402,822
53: Washington	156,005	2,039,321	-158,071	46,328	-327,266	49,231	444,865	35,434	-275,670
54: West Virginia	37,669	529,560	-63,388	9,984	-75,347	11,388	81,807	9,645	-69,849
55: Wisconsin	132,915	2,270,708	-206,318	33,214	-298,373	39,392	396,284	35,872	-304,229
56: Wyoming	17,236	160,443	-2,507	4,796	-23,969	5,460	41,405	3,825	-19,944
<b>Total Male</b>	<b>3,828,552</b>	<b>40,934,420</b>	<b>-3,571,937</b>	<b>1,084,997</b>	<b>-7,226,491</b>	<b>1,118,287</b>	<b>9,514,529</b>	<b>925,162</b>	<b>-5,859,975</b>
01: Alabama	54,482	645,141	-40,671	14,970	-101,770	16,573	144,483	13,859	-83,385
02: Alaska	8,880	69,275	-3,058	2,390	-11,289	3,019	18,366	1,890	-10,135
04: Arizona	57,067	660,814	-14,493	17,431	-133,228	17,296	207,898	12,793	-89,164
05: Arkansas	31,375	336,731	-38,561	9,117	-57,030	9,059	66,668	7,698	-48,200
06: California	442,846	4,891,924	-564,803	136,089	-957,975	127,320	1,218,508	106,765	-825,335
08: Colorado	73,271	662,050	-62,034	22,584	-132,114	20,272	157,197	16,561	-87,118
09: Connecticut	51,471	508,512	-43,901	13,009	-72,340	15,347	100,793	13,288	-72,354
10: Delaware	11,563	129,098	-7,998	3,166	-21,111	3,445	29,226	2,751	-16,113
11: District of Columbia	7,788	95,488	-11,573	2,277	-18,797	2,255	20,867	1,856	-13,644
12: Florida	236,572	2,196,674	-124,844	76,810	-544,333	69,915	724,059	46,853	-304,571
13: Georgia	111,034	1,183,422	-104,354	33,028	-220,743	32,739	290,010	25,899	-173,622
15: Hawaii	14,105	146,011	8,399	3,181	-19,565	5,086	43,465	2,811	-15,501
16: Idaho	19,488	184,301	-8,214	5,247	-29,771	6,939	50,170	3,979	-28,614
17: Illinois	165,159	1,889,545	-192,743	44,389	-326,887	46,222	399,973	42,235	-265,829
18: Indiana	77,080	932,741	-64,836	20,172	-137,249	22,607	200,674	20,491	-128,261
19: Iowa	40,940	422,998	-31,650	10,313	-58,313	11,644	81,579	10,809	-54,916
20: Kansas	37,005	394,239	-38,352	9,531	-57,624	10,545	75,399	9,575	-56,127

21: Kentucky	46,821	517,748	-41,796	12,727	-86,832	14,271	112,844	11,847	-67,808
22: Louisiana	52,736	621,231	-65,321	15,201	-122,461	14,620	149,809	13,954	-92,669
23: Maine	21,141	194,650	-16,572	5,479	-27,773	6,353	36,126	4,782	-24,925
24: Maryland	70,525	759,262	-34,391	18,305	-116,954	21,979	180,502	17,253	-97,938
25: Massachusetts	98,458	1,021,161	-93,010	25,889	-150,777	28,481	210,878	24,627	-153,111
26: Michigan	131,789	1,503,239	-214,115	36,357	-270,210	34,248	301,857	36,860	-245,763
27: Minnesota	76,138	822,452	-57,013	19,687	-125,211	22,103	175,380	18,581	-107,181
28: Mississippi	31,152	344,462	-29,150	9,195	-61,855	9,001	81,397	7,776	-48,692
29: Missouri	74,305	835,665	-75,230	20,675	-129,969	21,730	162,073	18,474	-107,334
30: Montana	16,108	125,430	-14,406	4,291	-20,786	4,824	24,152	3,871	-17,772
31: Nebraska	24,565	274,037	-32,834	6,263	-42,262	6,964	46,452	6,332	-37,024
32: Nevada	26,788	362,144	10,847	8,964	-73,552	8,721	134,584	5,172	-50,185
33: New Hampshire	20,470	197,639	-11,281	5,646	-36,097	6,269	46,330	4,526	-21,513
34: New Jersey	138,710	1,386,346	-154,442	40,451	-244,848	38,399	290,450	32,943	-200,045
35: New Mexico	20,234	206,597	105	5,619	-34,178	6,847	59,339	4,482	-25,055
36: New York	290,912	2,649,662	-325,565	86,175	-466,827	78,310	551,534	65,226	-410,272
37: North Carolina	109,486	1,200,707	-118,860	30,907	-217,179	32,141	264,272	27,244	-165,952
38: North Dakota	10,914	104,951	-5,130	2,421	(D)	3,531	22,400	2,490	(D)
39: Ohio	146,923	1,793,126	-180,157	38,481	-287,787	41,882	361,001	40,443	-253,371
40: Oklahoma	43,363	448,972	-37,831	11,686	-81,492	12,949	103,595	10,153	-59,934
41: Oregon	50,289	484,232	-20,572	13,385	-79,957	16,285	119,369	11,302	-59,985
42: Pennsylvania	162,731	1,831,649	-152,162	40,471	-272,290	48,267	366,313	42,034	-246,186
44: Rhode Island	15,702	155,389	-18,133	3,779	-21,028	4,594	27,665	3,994	-24,771
45: South Carolina	53,562	562,997	-48,173	14,970	-98,104	16,106	126,974	13,404	-77,043
46: South Dakota	12,409	117,033	-4,220	3,017	(D)	3,806	25,033	3,041	(D)
47: Tennessee	67,389	780,101	-48,193	18,618	-131,418	21,112	186,346	16,744	-103,121
48: Texas	250,599	2,840,281	-281,325	74,659	-558,612	72,645	695,253	60,758	-417,966
49: Utah	33,246	341,405	-7,133	10,063	-70,004	10,677	109,913	6,698	-47,043
50: Vermont	10,684	100,507	-7,048	2,666	(D)	3,150	19,268	2,724	(D)
51: Virginia	93,842	1,045,962	-52,205	25,169	-166,657	29,542	258,416	22,973	-143,964
53: Washington	81,694	762,490	-18,605	23,865	-123,919	26,234	201,377	18,054	-96,062
54: West Virginia	21,041	201,250	-19,327	5,388	-29,690	6,532	37,052	5,290	-26,689
55: Wisconsin	74,708	924,318	-55,281	18,320	-122,555	22,427	177,965	19,124	-110,690
56: Wyoming	8,996	68,357	279	2,503	(D)	3,005	19,274	1,872	(D)
Total Female	923,978	6,963,492	-801,400	313,666	-1,502,924	240,638	1,726,407	203,001	-1,024,882
01: Alabama	11,786	(D)	(D)	4,173	(D)	3,100	25,242	2,511	(D)
02: Alaska	2,887	(D)	(D)	852	-3,241	765	(D)	741	(D)
04: Arizona	15,686	127,381	-9,050	5,909	-29,442	4,083	38,672	3,048	-18,280

05: Arkansas	7,787	55,843	(D)	2,884	(D)	1,970	(D)	1,739	(D)
06: California	114,703	906,506	-98,223	40,440	(D)	30,239	231,680	24,998	(D)
08: Colorado	21,216	(D)	(D)	7,520	(D)	5,142	33,264	4,327	-20,274
09: Connecticut	10,937	83,857	-12,315	3,476	(D)	2,757	16,933	2,607	(D)
10: Delaware	2,946	18,935	(D)	899	(D)	762	(D)	639	-2,837
11: District of Columbia	2,448	(D)	(D)	806	(D)	626	(D)	566	(D)
12: Florida	65,484	(D)	(D)	23,313	-136,335	17,018	(D)	12,229	-55,636
13: Georgia	27,112	198,528	-28,981	9,773	-51,002	7,042	49,208	5,322	-27,186
15: Hawaii	4,898	37,197	-2,872	1,512	-8,660	1,483	9,661	1,010	-3,873
16: Idaho	4,537	26,209	-916	1,453	(D)	1,514	7,532	829	(D)
17: Illinois	41,179	(D)	(D)	12,494	(D)	9,905	89,099	9,912	-54,391
18: Indiana	16,255	132,639	-12,805	5,436	-26,397	4,439	30,751	3,764	-17,159
19: Iowa	8,911	62,255	-8,120	2,709	(D)	2,205	(D)	2,165	(D)
20: Kansas	9,286	(D)	(D)	3,048	(D)	2,487	11,980	2,173	-8,015
21: Kentucky	10,358	84,064	-5,915	3,363	(D)	2,904	(D)	2,133	(D)
22: Louisiana	12,451	(D)	(D)	4,620	(D)	2,875	21,092	3,096	-21,017
23: Maine	4,839	26,619	(D)	1,746	(D)	1,253	(D)	861	(D)
24: Maryland	18,117	(D)	(D)	5,503	(D)	4,951	38,913	4,109	(D)
25: Massachusetts	22,333	165,537	(D)	7,427	(D)	5,623	36,603	5,198	(D)
26: Michigan	28,952	221,532	(D)	9,400	-43,820	7,017	(D)	7,266	-41,464
27: Minnesota	16,864	119,185	-4,812	5,317	(D)	4,198	32,288	3,918	(D)
28: Mississippi	7,262	(D)	(D)	2,778	(D)	1,766	(D)	1,736	-7,800
29: Missouri	19,355	142,563	-18,864	6,803	(D)	4,999	31,617	4,393	(D)
30: Montana	4,501	20,247	-1,170	1,301	(D)	1,366	5,514	859	(D)
31: Nebraska	5,958	(D)	(D)	1,814	(D)	1,589	(D)	1,493	-8,455
32: Nevada	6,510	54,533	-6,597	2,816	-15,356	1,662	17,606	1,226	-8,846
33: New Hampshire	4,910	36,866	-6,437	1,716	(D)	1,158	5,469	1,118	(D)
34: New Jersey	30,711	228,923	-32,839	10,362	-54,821	8,078	51,455	6,401	-29,472
35: New Mexico	6,293	(D)	(D)	2,189	-9,602	1,741	(D)	1,253	(D)
36: New York	64,842	441,963	-57,081	21,411	-86,467	16,778	98,938	13,360	-69,552
37: North Carolina	26,333	219,239	-11,871	8,684	-40,645	6,912	61,910	6,161	-33,137
38: North Dakota	1,917	(D)	(D)	602	(D)	536	(D)	406	-1,434
39: Ohio	30,651	(D)	(D)	10,008	(D)	7,989	(D)	7,359	-36,487
40: Oklahoma	11,095	89,366	-7,705	3,540	-18,544	3,014	22,891	2,468	-12,052
41: Oregon	13,378	(D)	(D)	4,688	(D)	3,673	21,022	2,706	(D)
42: Pennsylvania	34,495	273,172	-34,879	10,417	-47,946	9,275	53,266	8,094	-40,198
44: Rhode Island	3,587	24,443	(D)	1,023	(D)	1,027	(D)	813	(D)
45: South Carolina	11,738	90,301	-12,744	4,125	(D)	2,836	17,720	2,858	(D)
46: South Dakota	2,657	14,929	(D)	843	(D)	648	(D)	746	-2,283

47: Tennessee	14,082	(D)	(D)	5,029	(D)	3,674	42,576	3,082	-17,723
48: Texas	63,641	550,905	-67,266	23,410	(D)	16,314	(D)	14,102	(D)
49: Utah	6,103	53,205	-8,546	2,484	-13,244	1,650	13,299	1,010	-8,601
50: Vermont	2,496	(D)	(D)	753	(D)	592	(D)	626	(D)
51: Virginia	23,882	182,641	(D)	7,569	-33,443	6,617	47,588	5,274	(D)
53: Washington	21,569	(D)	(D)	7,738	-26,596	5,952	(D)	4,394	-16,171
54: West Virginia	4,594	(D)	(D)	1,606	(D)	1,128	6,149	1,048	(D)
55: Wisconsin	17,014	(D)	(D)	5,011	(D)	4,702	31,304	4,383	-23,318
56: Wyoming	2,432	12,442	-2,304	876	(D)	603	2,589	470	(D)
Total Equally Owned	732,818	5,536,227	-618,811	225,398	-1,170,490	203,463	1,340,619	176,843	-788,941
01: Alabama	7,272	(D)	(D)	2,392	(D)	2,229	13,579	1,672	(D)
02: Alaska	2,587	(D)	(D)	794	(D)	723	(D)	572	(D)
04: Arizona	19,540	161,087	-1,135	6,309	-36,675	6,012	57,807	4,279	-22,268
05: Arkansas	8,487	58,957	(D)	2,784	(D)	2,375	(D)	1,953	(D)
06: California	96,270	(D)	(D)	31,719	(D)	25,941	(D)	24,465	(D)
08: Colorado	18,266	(D)	(D)	5,513	(D)	4,786	(D)	4,408	(D)
09: Connecticut	7,312	53,447	-8,885	2,240	(D)	1,919	10,184	1,946	(D)
10: Delaware	2,060	15,826	(D)	603	(D)	554	(D)	445	-1,740
11: District of Columbia	1,027	(D)	(D)	358	(D)	244	(D)	245	(D)
12: Florida	50,560	(D)	(D)	17,752	-69,374	14,345	(D)	9,583	-45,917
13: Georgia	17,190	122,896	-15,276	6,026	-30,651	4,615	31,415	3,667	-16,040
15: Hawaii	3,532	33,036	171	923	-4,829	1,140	8,438	853	-3,438
16: Idaho	6,972	46,370	1,205	2,071	(D)	2,480	15,030	1,343	(D)
17: Illinois	29,478	(D)	(D)	8,360	(D)	7,690	44,770	7,888	-38,798
18: Indiana	15,191	119,531	-13,133	4,362	-22,313	4,247	27,268	4,109	-18,088
19: Iowa	9,266	69,901	-9,672	2,568	(D)	2,604	(D)	2,280	(D)
20: Kansas	8,909	(D)	(D)	2,610	(D)	2,342	14,900	2,287	-10,859
21: Kentucky	9,220	67,465	-14,160	2,918	(D)	2,206	(D)	2,470	(D)
22: Louisiana	11,016	(D)	(D)	3,509	(D)	2,879	19,921	2,889	(D)
23: Maine	5,252	31,754	(D)	1,424	(D)	1,383	(D)	1,176	(D)
24: Maryland	11,050	(D)	(D)	3,244	(D)	3,176	(D)	2,596	(D)
25: Massachusetts	13,107	(D)	(D)	3,798	(D)	3,315	18,270	3,400	(D)
26: Michigan	20,205	167,233	(D)	6,128	-32,043	5,250	(D)	5,370	-27,145
27: Minnesota	15,714	118,749	-9,047	4,527	(D)	4,318	26,127	3,871	(D)
28: Mississippi	5,435	(D)	(D)	1,777	(D)	1,582	(D)	1,270	-4,453
29: Missouri	18,993	144,426	-16,722	5,726	(D)	5,383	31,907	4,429	(D)
30: Montana	5,433	32,319	-3,291	1,506	(D)	1,509	7,185	1,340	(D)
31: Nebraska	7,257	(D)	(D)	2,198	(D)	1,980	(D)	1,683	-6,424

32: Nevada	6,280	50,956	-752	2,374	-12,790	1,906	18,310	1,153	-6,272
33: New Hampshire	4,201	34,957	-3,639	1,145	(D)	1,239	7,559	1,161	(D)
34: New Jersey	18,543	122,996	-15,816	5,659	-24,486	5,331	26,691	4,445	-18,021
35: New Mexico	6,149	(D)	(D)	1,699	-6,970	1,845	(D)	1,547	(D)
36: New York	35,347	244,076	-48,867	10,592	-59,295	8,920	41,817	8,500	-31,389
37: North Carolina	19,534	138,946	-19,351	6,110	-31,438	5,659	31,820	4,416	-19,734
38: North Dakota	2,416	(D)	(D)	626	(D)	574	(D)	495	(D)
39: Ohio	20,958	(D)	(D)	5,944	(D)	5,456	(D)	5,719	-25,444
40: Oklahoma	10,334	75,461	2,730	3,328	-17,815	2,750	30,307	2,434	-9,762
41: Oregon	15,531	(D)	(D)	4,581	(D)	4,907	27,789	3,368	(D)
42: Pennsylvania	21,241	185,065	-25,672	5,776	-32,957	5,740	30,601	5,531	-23,316
44: Rhode Island	3,125	23,147	(D)	926	(D)	749	(D)	811	(D)
45: South Carolina	7,780	59,073	-7,032	2,342	(D)	2,263	15,513	1,858	(D)
46: South Dakota	3,282	21,324	(D)	906	(D)	1,046	(D)	652	(D)
47: Tennessee	11,395	(D)	(D)	3,859	(D)	3,132	19,549	2,674	(D)
48: Texas	45,689	(D)	(D)	14,421	(D)	12,711	(D)	11,568	(D)
49: Utah	7,110	55,483	-5,556	2,504	-12,088	2,044	14,676	1,377	-8,144
50: Vermont	3,325	(D)	(D)	845	(D)	834	(D)	1,012	(D)
51: Virginia	15,584	(D)	(D)	4,396	-22,960	4,703	(D)	3,766	(D)
53: Washington	24,558	151,810	(D)	7,229	(D)	7,511	(D)	5,512	(D)
54: West Virginia	3,607	(D)	(D)	1,108	(D)	1,003	6,059	897	(D)
55: Wisconsin	17,253	(D)	(D)	4,166	(D)	5,036	30,677	4,696	-19,349
56: Wyoming	2,974	19,759	-1,705	723	(D)	879	4,265	764	(D)



Table A8 Number of Initial-year Establishments, Deaths, Expansions, and Contractions with Corresponding Change in Employment by Industry, Enterprise Receipts Size, Gender, and Race: 2002-2006 (Non-publicly Held Businesses Only)

Enterprise Receipts Size (\$1,000)	Initial Year		Net Change in Employment	Deaths		Expansions		Contractions		Percentage change of establishment due to:			Percentage change of employment due to:		
	Establishments	Employment		Establishments	Net Change in Employment	Establishments	Net Change in Employment	Establishments	Net Change in Employment	Survival	Expansion	Contraction	Death	Expansion	Contraction
Total	5,485,758	53,449,766	-4,988,473	1,624,156	-9,902,718	1,562,534	12,590,325	1,305,146	-7,676,080	70.4	28.5	23.8	-18.5	23.6	-14.4
Male	3,828,552	40,934,420	-3,571,937	1,084,997	-7,226,491	1,118,287	9,514,529	925,162	-5,859,975	71.7	29.2	24.2	-17.7	23.2	-14.3
Female	923,978	6,963,492	-801,400	313,666	-1,502,924	240,638	1,726,407	203,001	-1,024,882	66.1	26.0	22.0	-21.6	24.8	-14.7
Equally Owned	732,818	5,536,227	-618,811	225,398	-1,170,490	203,463	1,340,619	176,843	-788,941	69.2	27.8	24.1	-21.1	24.2	-14.3