The use of alternative employment arrangements by small businesses: Evidence from the 2003 Survey of Small Business Finances

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April 30, 2007

*The views expressed herein are those of the authors. They do not necessarily reflect the opinions of the Federal Reserve Board or its staff. The authors would like to thank Courtney Carter and John Wolken for helpful comments and suggestions.
1. Introduction

The latest estimates from the Bureau of Labor Statistics (2005) Current Population Survey (CPS) indicate that 7.4 percent of workers (10.3 million workers) were employed as independent contractors, 1.8 percent (2.5 million) were on-call workers, 0.9 percent (1.2 million) were temporary help agency workers, and 0.6 percent (813,000 workers) were provided by contract firms. In other words, roughly one in ten workers (12.4 percent) employed in 2005 are considered to have been in “alternative employment arrangements.” Employees in alternative work arrangements are explicitly defined by Polivka (1996) “either as individuals whose employment is arranged through an employment intermediary such as a temporary help firm, or individuals whose place, time and quantity of work are potentially unpredictable.”

Much of the existing literature on alternative employment arrangements (AEA) provides information about the characteristics of AEA workers and how they differ from the characteristics of workers in standard employment arrangements (see Cohaney 1996; Cohaney 1998; DiNatale 2001). The driving force behind this literature is concern that workers in these situations often lack permanent employment contracts, fringe benefits, or other benefits associated with ongoing employee-employer relationships.

The literature examining AEA from the firm perspective is limited. The focus of this vein of research has been to try to explain why firms choose to use AEA in place of standard employment contracts. Abraham and Taylor (1996) point out that the previous literature has offered three general explanations. First, firms may be using AEA in an attempt generate cost savings by substituting standard employees with AEA employees when the internal wages and benefits of standard employees are high. Second, firms may be using AEA to meet irregular product demand constraints. Finally, firms may be using AEA to take advantage of economies
of scale for certain services. The literature indicates that a firm’s decision is likely based on a combination of all of these factors. In general, studies that have examined the use of AEA from the establishment level have been limited in scope to certain industries (Abraham and Taylor 1996), geographic areas (Gramm and Schnell 2001), or have had small sample sizes (Abraham 1988; Houseman 2001, Gramm and Schnell).

The current paper adds to the firm-perspective literature. We examine the characteristics of firms that choose to use AEA using data from the 2003 Survey of Small Business Finances (SSBF). In 2003, a series of questions was added to the SSBF to collect information from firms about their usage of AEA. The data that were collected allow us to examine AEA usage in a relatively large representative sample of small businesses. The Small Business Administration estimates that small businesses (firms with fewer than 500 employees) account for 98 percent of all non-farm businesses in the United States and up to 50 percent of all new jobs created each year (Small Business Administration 2005). Given their importance in our economy and the job market, it is important to understand the extent to which small business firms are choosing to use AEA. Our findings suggest that small firms seem to use AEA for the same reasons that larger firms use them. The size of the firm—as measured by standard employment, sales, or assets—plays a dominant factor in determining whether or not the firm uses AEA. The results also indicate that demand uncertainty plays an important role in the firm’s decision, while the evidence on cost savings is less clear for small firms.

2. Data and Descriptive Statistics

The 2003 SSBF was conducted to collect information from the owners of a nationally representative sample of U.S. small business enterprises. Owners were asked about firm income statements; balance sheets; financial relationships; credit experiences; lending terms and
conditions; the types of, and locations of financial institutions that were used; and about various other firm characteristics.¹

The target population of the survey was defined as for-profit, nongovernmental, nondepository, and nonagricultural enterprises with fewer than 500 employees. Firms in the sample had to be either single establishments, or the headquarters of multiple establishment enterprises that were not majority owned subsidiaries of other firms. Additionally, in order to be eligible, firms had to have been in business during December of 2003 and at the time of the interview. The majority of interviews occurred between June and December of 2004.

Following a series of questions regarding their use of standard employees, interview respondents were asked about their firm’s use of AEA. Specifically, respondents were asked if the firm used any of the following types of workers during a typical pay period in 2003: temporary staffing obtained from a temporary help service; leased employees from a leasing service or a professional employer organization; contractors, subcontractors, independent contractors, or outside consultants.² If a respondent reported using at least one of these employment arrangements, they were then asked to report the total number of all such workers used during a typical pay period in 2003. It is important to note that the 2003 SSBF did not collect any information on the capacity in which these workers were used. Therefore, it is impossible to determine if alternative workers were used to supplement or complement the firm’s standard workforce. Additionally, the survey data are limited to the “typical” pay period for the firm, so information regarding the dynamics of the firm’s usage of AEA is lost.


² Respondents were also asked about their use of paid day laborers in this series of questions (9.8% of firms reported using them). However, since day labor is traditionally arranged directly by the employer rather than some employment intermediary, it is typically not considered in the context of alternative work arrangements (see Polivka 1996). No analysis is done in this paper on the use of day laborers.
However, the survey data provide a great deal of detail on other firm characteristics that are useful in identifying the determinants of AEA usage.

Table 1 indicates that less than half of small businesses employ some type of alternative worker. Because these numbers are estimates of AEA usage during a typical 2003 pay period, they are likely to be a lower bound estimate of the percentage of firms that actually used AEA at some point during the course of the year. This caveat aside, the percentage is smaller than those that are reported in other studies. For example, Abraham (1988) reports that 93 percent of firms reported using some form of AEA. This disparity is likely a function of the specialized samples that were used. Again, following the Abraham example, the large majority of firms sampled in that study had 50 or more employees, and many were subsidiaries of larger corporations. In contrast, less than 3 percent of the weighted sample of firms in the SSBF data have more than 50 employees, and majority-owned subsidiaries were strictly omitted by the sample design. Of the firms in the SSBF that did employ at least 50 employees, over 65 percent used some type of alternative employment arrangement. These larger firms were much more likely to have employed any of the individual types of alternative arrangements. Consistent with the individual-level statistics reported by the BLS, independent contractors were the most commonly reported type of AEA used, with 2 out of 5 firms reporting that they used them.

Table 2 provides usage rates of AEA by various firm characteristics. There were minimal differences in usage patterns by the various owner demographic characteristics. Firms owned by Asians were somewhat less likely to use any type of alternative arrangement than those owned by whites, blacks, and Native Americans. Male-owned firms were somewhat more likely to employ AEA than were female-owned firms, or firms that were equally male and female.
owned. Similar trends were evident across the specific types of alternative arrangements, with Asian-owned firms less likely than other racial categories, and female-owned firms less likely than male-owned firms to use independent contractors and leased employees.

The use of AEA varied substantially by industry, which may be consistent with the theory that firms use AEA in the face of cyclical or seasonal product demand. Nearly 65 percent of construction and mining firms used some form of AEA, with 62 percent of them employing independent contractors. In contrast, the retail trade industry was much less likely to employ alternative workers, with less than 28 percent doing so, and about 25 percent employing independent contractors. Firms in the manufacturing industry were the most likely to use temporary help agency employees (14 percent), followed by firms in retail trade (12 percent), and firms in construction and mining (10 percent).

There were some substantial differences in AEA usage by firm location. Firms located in urban areas were more likely to use alternative arrangements than firms in rural areas. Additionally, urban firms were more than twice as likely to use temp agency workers than were firms located in rural areas. This could be due to the fact that temporary help agencies tend to be located in urban areas (see Abraham and Taylor 1996). AEA usage patterns differed between the geographic regions of the U.S. Firms in the west were more likely to use alternative arrangements than firms in any other region of the country. These firms were also the most likely to use independent contractors. By Census division, the differences were even larger. Forty-eight percent of firms in the Pacific Division used some type of alternative arrangement, compared to just over 38 percent of firms in the Mid-Atlantic. Respectively, these Census divisions were also the most and least likely to use independent contractors.

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3 Firm level owner characteristics are based on a weighted percentage of the individual owner characteristics. See Mach and Wolken (2006) for more information.
The relationship between the area where the firm does business and whether or not it used any alternative arrangements is quite striking. The wider the firm’s sales area, the more likely the firm was to have used an alternative arrangement. Firms operating outside of the United States were more than twice as likely to use temp agency workers than were firms that operated primarily within their respective cities. Additionally, firms that had three or more offices were nearly 25 percent more likely to use alternative arrangements than were firms with single locations. Most of this disparity can be attributed to differences in the relative use of independent contractors.

Substantial differences in AEA usage can be seen by how firms are organized. Only 36 percent of firms classified as sole proprietorships used alternative workers, whereas 53 percent of C-corporations used some type of alternative arrangement. C-corporations were more than three times as likely to use temporary employment agencies than were sole proprietorships and partnerships. This is consistent with the positive correlation between firm size and AEA usage. Of the firms with less than five employees, 31 percent used some sort of alternative employment arrangement; 3 percent used employees from a temp agency; 2 percent used leased employees; and 30 percent used independent contractors. Of the largest firms (100-499 employees), 73 percent used some sort of alternative employment arrangement, 39 percent used employees from a temp agency, 9 percent used leased employees, and 59 percent used independent contractors. The use of AEA is also positively correlated with firm assets, sales, and total profit. Eighty-eight percent of the most profitable firms, 80 percent of firms in the highest asset class, and 66 percent of firms with the most sales in 2003 all reported using some form of AEA.
There appears to be a positive correlation between the average salary paid to standard employees and the use of AEA.\(^4\) Just under 38 percent of firms with average salaries under $5,000 used AEA, while 54 percent of firms with average salaries of over $30,000 did so. This trend held across the different types of arrangements as well. This positive correlation may be an indication that firms are using AEA workers to cut costs because their current workforce is relatively more expensive. However, without more information on the tasks performed by these workers compared to those performed by the traditional employees, this is only speculative.

Table 3 provides detail on the characteristics of firms that do and do not use AEA. This table reinforces many of the themes described above, but provides some additional insight into the make-up of the small business population. By industry, over 40 percent of the firms that used at least some form of alternative arrangement were in business or professional services. Despite the fact that less than half of these firms used alternative arrangements, they comprise a large portion of the overall population of firms that used any type of AEA. This is attributable to the fact that firms in business or professional services account for such a large portion of the small business population. Similar disparities can be seen in the number of firm locations, the firm sales area, and the firm size measures. While more of these factors (offices, employees, sales, etc.) was related to higher AEA usage, they comprise a smaller and smaller portion of the small business population of firms with alternative arrangements. For example, firms with a single location accounted for 82 percent of firms employing AEA, while firms with two locations accounted for only 12 percent.

\(^4\) The survey collected information on the total cost of wages and salaries paid in the previous years. We calculate an average salary by dividing this by the total number of non-owners working in the firm (A10.2). Because the question on employment treats part-time workers the same as full-time workers and the paid workers the same as unpaid workers, this measure is likely to be a noisy one.
3. Estimation

We model the likelihood of the firm using an AEA as a function of three types of characteristics:

\[ p_i^* = \alpha E_i + \beta F_i + \delta G_i + u_i \]

where \( p_i^* \) is a value function correlated with the probability that the firm \( i \) uses an AEA. \( E \) is a matrix of variables measuring the firm’s use of traditional employment (number of workers and a measure of average wage); \( F \) is a matrix of variables capturing the dynamics of the firm’s demand (industry, number of offices, sales area, total sales, profits, seasonality measure, cyclicality measure, etc.); and \( G \) is a matrix of variables capturing other differences in firm characteristics that may imply differential propensity to employ AEA (owner characteristics and Census division).

In practice, we do not observe the probability that a given firm uses an AEA, but rather whether or not a given firm used an AEA.

\[ p_i = \begin{cases} 1 & \text{if } p_i^* > 0 \\ 0 & \text{otherwise} \end{cases} \]

\[ \Pr(p_i = 1) = \Pr[u_i > -(\alpha E_i + \beta F_i + \delta G_i)] = 1 - F[-(\alpha E_i + \beta F_i + \delta G_i)] \]

where \( F(\cdot) \) is the cumulative distribution function of \( u \). Assuming that \( u_i \) is normally distributed, we can estimate \( \alpha, \beta, \) and \( \delta \) from equation (3) using a probit model.

Table 4 provides the probit coefficients from a baseline modeling of firms’ overall propensity to use any alternative employment arrangement. The models in the first two columns of the table include all of the descriptive measures discussed earlier. The only differences in the two columns are the measures used to capture potential differences in employment demand that
the firm might face. The first specification simply uses dummy variables for the main 2-digit industry, while the second uses seasonality and cyclicality measures suggested by Abraham and Taylor (1996).\(^5\)

The latter two columns of Table 4 re-estimate the models without the measures of organizational form, and without the owner characteristic dummy variables for race and ethnicity. The significance tests indicate that these omissions do not materially affect the estimation and will, therefore, be dropped from the rest of the discussion. This insignificance is likely related to the fact that these characteristics are correlated with firm size. Mach and Wolken (2006) showed that minority-owned firms, female-owned firms, and proprietorships tended to have fewer employees, fewer asset and lower sales than firms that were non-minority owned, male owned, and firms that were organized as corporations or partnerships. In addition, because there are not large differences across the two specifications, the rest of the paper will restrict itself to the model that uses the industry dummies rather than the cyclicality and seasonality measures, as they are easier to interpret and potentially convey more information about the industry beyond its cyclical or seasonal nature.

Table 5 presents the probit coefficients from the pared-down model presented in Table 4 (column 4), by the specific types of AEA. Not surprisingly, the results show that the use of AEA varied significantly by industry. There were also substantial differences across the various measures of firm size. Generally, the larger the firm (whether measured by sales, employment, or assets), the more likely it was to employ AEA. There is also evidence that firms may be using AEA as a mechanism to grow, with growth in sales from the previous year associated with an

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\(^5\) The seasonality measure is defined by the standard deviation of the coefficients from a regression of the change in log employment on the firm’s 2, 3, or 4 digit industry (depending on the availability of information) on a set of twelve month dummies. The cyclicality measure is defined by the coefficient from a regression of the change in seasonally adjusted log employment in the firm’s 2, 3, or 4 digit industry (depending on the availability of information) on the change in seasonally adjusted log of total nonagricultural payroll employment.
increased likelihood of using AEA. However, the same did not hold true for profitability, which appears to have decreased the likelihood of using AEA. Our results do not show a significant relationship between the average salary paid to standard employees and the likelihood of using AEA. Perhaps this is due to the lack of information on how the AEA employees were being used. Both firm location and primary sales area appear to have played a role in the decision to use AEA. Broader sales markets, being located in an urban area, and being located in the West, were all positively associated with using AEA.

Table 6 provides information on the importance of each of the various measures in a firm’s decision about whether or not to use AEA. The largest marginal effects are attributable to the firm’s industry. Firms in construction and mining were nearly 40 percent more likely to use any type of AEA than were firms in retail trade. Looking across the various types of arrangements, we see that this was largely due to the use of independent contractors. Firms in construction and manufacturing were only 7 percent more likely to use employees from a temporary agency, and were no more likely to use leased employees than are retail trade firms.

The smallest of small businesses, those with fewer than 3 standard employees, were 10 percent less likely than firms with 5 or more employees to use any type of AEA. This effect was strongest for the likelihood of using independent contractors, and smallest for the likelihood of using leased employees. Firms with 3 or 4 standard employees did not look any different than the firms with 5 or more employees in their decision to use any type of AEA. However, they were about 3 percent less likely to use employees from a temporary agency. Growing firms were also about 5 percent more likely to use AEA than firms with constant or declining sales in the previous year.
The broader the firm’s primary sales area, the more likely it was to have used some form of AEA. Firms that do business primarily within the city were more than 20 percent less likely to use AEA workers than firms that did business outside of their geographic region; firms that do business within their metropolitan area or county were only 14 percent less likely; and firms that do business within the state were only 6 percent less likely. Again, this effect was strongest for the use of independent contractors, weaker for the use of temp agency employees, and nonexistent for the use of leased employees.

Being located in an urban area increased the likelihood that firms used some type of AEA by about 5 percent. However, this is only significant for the use of employees from a temporary agency. Again, this is likely driven by the fact that most temporary agencies are located in urban areas. Despite the univariate differences, being located in the West only impacted the firm’s decisions to use independent contractors, increasing the likelihood of doing so by about 9 percent.

4. Conclusions

This paper used data from the 2003 SSBF to examine the use of alternative employment arrangements by small businesses. The results indicate that small businesses do use AEA in the course of their normal operations, but at a lower rate than larger firms. Independent contractors are the most common AEA used by small businesses. As with larger firms, the decision to use AEA is strongly driven by the firm’s industry. This is consistent with the argument that firms use AEA in response to variations in demand for their product. Our results also show that the size of the firm is an important factor in determining whether or not the firm uses AEA; fewer standard employees, lower sales, and fewer assets all decrease the likelihood that a given firm will use AEA. This size effect could be related to the fact that as firms grow, they are more
likely to require additional periphery services, such as accounting or computer services. These peripheral services may either be cheaper to outsource when the firm’s internal wages are high, or when there are economies of scale involved.

Because small businesses represent a substantial portion of potential employers, the results from this paper can be used in conjunction with information on the change in the small business population to examine the likely trends in AEA usage in the economy.
Table 1: Small Business Usage of Alternative Workers (weighted percentage)

<table>
<thead>
<tr>
<th></th>
<th>All firms</th>
<th>Small Firms (&lt; 50 employees)</th>
<th>Large Firms (&gt;=50 employees)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any nonstandard employment</td>
<td>43.2</td>
<td>42.7</td>
<td>65.9</td>
</tr>
<tr>
<td>Temporary employees</td>
<td>7.6</td>
<td>6.9</td>
<td>33.1</td>
</tr>
<tr>
<td>Leased employees</td>
<td>2.9</td>
<td>2.7</td>
<td>7.7</td>
</tr>
<tr>
<td>Contractors or consultants</td>
<td>40.2</td>
<td>39.9</td>
<td>55.3</td>
</tr>
</tbody>
</table>

Estimates are weighted using sample design weights.
Table 2: Usage of alternative work arrangements by firm characteristic (weighted)

<table>
<thead>
<tr>
<th>Among firms with the following characteristic…</th>
<th>Percentage of firms that…</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>used no alternative arrangement</td>
</tr>
<tr>
<td>Owner characteristics¹</td>
<td></td>
</tr>
<tr>
<td>Nonwhite or Hispanic</td>
<td>57.74</td>
</tr>
<tr>
<td>White</td>
<td>56.55</td>
</tr>
<tr>
<td>Black</td>
<td>55.14</td>
</tr>
<tr>
<td>Native American</td>
<td>56.02</td>
</tr>
<tr>
<td>Asian or Pacific Islander</td>
<td>61.18</td>
</tr>
<tr>
<td>Hispanic</td>
<td>53.57</td>
</tr>
<tr>
<td>Non-Hispanic white</td>
<td>56.54</td>
</tr>
<tr>
<td>Female</td>
<td>62.31</td>
</tr>
<tr>
<td>Male</td>
<td>53.90</td>
</tr>
<tr>
<td>Ownership equally</td>
<td>60.99</td>
</tr>
<tr>
<td>Industry</td>
<td></td>
</tr>
<tr>
<td>Construct and Mining</td>
<td>35.52</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>51.92</td>
</tr>
<tr>
<td>Transportation</td>
<td>45.45</td>
</tr>
<tr>
<td>Wholesale trade</td>
<td>59.52</td>
</tr>
<tr>
<td>Retail trade</td>
<td>72.19</td>
</tr>
<tr>
<td>Insurance and real estate</td>
<td>45.44</td>
</tr>
<tr>
<td>Business services</td>
<td>60.66</td>
</tr>
<tr>
<td>Professional services</td>
<td>57.13</td>
</tr>
<tr>
<td>Urban at main office</td>
<td></td>
</tr>
<tr>
<td>Urban</td>
<td>55.88</td>
</tr>
<tr>
<td>Rural</td>
<td>60.84</td>
</tr>
<tr>
<td>Census region</td>
<td></td>
</tr>
<tr>
<td>Northeast</td>
<td>59.83</td>
</tr>
<tr>
<td>Midwest</td>
<td>59.32</td>
</tr>
<tr>
<td>South</td>
<td>56.17</td>
</tr>
<tr>
<td>West</td>
<td>52.87</td>
</tr>
<tr>
<td>Census Division</td>
<td></td>
</tr>
<tr>
<td>New England</td>
<td>56.56</td>
</tr>
<tr>
<td>Middle Atlantic</td>
<td>61.24</td>
</tr>
<tr>
<td>East North Central</td>
<td>60.59</td>
</tr>
<tr>
<td>West North Central</td>
<td>56.68</td>
</tr>
<tr>
<td>South Atlantic</td>
<td>55.91</td>
</tr>
<tr>
<td>East South Central</td>
<td>53.98</td>
</tr>
<tr>
<td>West South Central</td>
<td>57.73</td>
</tr>
<tr>
<td>Mountain</td>
<td>55.15</td>
</tr>
<tr>
<td>Pacific</td>
<td>51.83</td>
</tr>
</tbody>
</table>
Table 2—continued
Among firms with the following characteristic… Percentage of firms that…

<table>
<thead>
<tr>
<th></th>
<th>used no alternative arrangement</th>
<th>used at least one alternative arrangement</th>
<th>used temp employees from agency</th>
<th>used leased employees</th>
<th>used independent contractors</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Primary sales area</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Within the city</td>
<td>70.64</td>
<td>29.36</td>
<td>4.53</td>
<td>1.55</td>
<td>26.87</td>
</tr>
<tr>
<td>Within the county/metropolitan area</td>
<td>58.47</td>
<td>41.53</td>
<td>6.1</td>
<td>3.02</td>
<td>39.29</td>
</tr>
<tr>
<td>Within the state</td>
<td>49</td>
<td>51</td>
<td>7.78</td>
<td>4.13</td>
<td>47.55</td>
</tr>
<tr>
<td>Within the region</td>
<td>50.22</td>
<td>49.78</td>
<td>7.54</td>
<td>3.42</td>
<td>47.04</td>
</tr>
<tr>
<td>Throughout the country</td>
<td>48.33</td>
<td>51.67</td>
<td>15.74</td>
<td>3.18</td>
<td>46.12</td>
</tr>
<tr>
<td>Globally</td>
<td>41.22</td>
<td>58.78</td>
<td>12.96</td>
<td>4.56</td>
<td>54.24</td>
</tr>
<tr>
<td><strong>Number of offices</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One location</td>
<td>58.94</td>
<td>41.06</td>
<td>6.88</td>
<td>2.60</td>
<td>38.27</td>
</tr>
<tr>
<td>Two locations</td>
<td>45.64</td>
<td>54.36</td>
<td>10.22</td>
<td>3.46</td>
<td>49.99</td>
</tr>
<tr>
<td>3 or more locations</td>
<td>34.97</td>
<td>65.03</td>
<td>9.41</td>
<td>4.56</td>
<td>60.77</td>
</tr>
<tr>
<td><strong>Organizational form</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proprietorship</td>
<td>63.89</td>
<td>36.11</td>
<td>4.54</td>
<td>1.68</td>
<td>33.87</td>
</tr>
<tr>
<td>Partnership</td>
<td>51.40</td>
<td>48.60</td>
<td>4.45</td>
<td>1.74</td>
<td>48.18</td>
</tr>
<tr>
<td>S corporation</td>
<td>52.72</td>
<td>47.28</td>
<td>9.60</td>
<td>3.66</td>
<td>44.14</td>
</tr>
<tr>
<td>C corporation</td>
<td>47.46</td>
<td>52.54</td>
<td>13.88</td>
<td>5.33</td>
<td>46.19</td>
</tr>
<tr>
<td>Owner managed</td>
<td>57.21</td>
<td>42.79</td>
<td>7.15</td>
<td>2.79</td>
<td>40.03</td>
</tr>
<tr>
<td><strong>Years under current ownership</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 ≤ years &lt; 5</td>
<td>60.69</td>
<td>39.31</td>
<td>6.38</td>
<td>3.34</td>
<td>37.44</td>
</tr>
<tr>
<td>5 ≤ years &lt; 10</td>
<td>53.51</td>
<td>46.49</td>
<td>9.22</td>
<td>2.63</td>
<td>42.83</td>
</tr>
<tr>
<td>10 ≤ years &lt; 15</td>
<td>54.59</td>
<td>45.41</td>
<td>6.06</td>
<td>1.93</td>
<td>43.29</td>
</tr>
<tr>
<td>15 ≤ years &lt; 20</td>
<td>54.97</td>
<td>45.03</td>
<td>7.20</td>
<td>1.35</td>
<td>43.25</td>
</tr>
<tr>
<td>20 ≤ years &lt; 25</td>
<td>60.28</td>
<td>39.72</td>
<td>8.70</td>
<td>2.35</td>
<td>34.88</td>
</tr>
<tr>
<td>Years ≥ 25</td>
<td>57.26</td>
<td>42.74</td>
<td>7.85</td>
<td>4.87</td>
<td>38.70</td>
</tr>
<tr>
<td><strong>Number of employees</strong></td>
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<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td># of employees: 0-1</td>
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<td>2.54</td>
<td>1.51</td>
<td>29.99</td>
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<tr>
<td># of employees: 2-4</td>
<td>58.78</td>
<td>41.22</td>
<td>4.24</td>
<td>1.79</td>
<td>39.05</td>
</tr>
<tr>
<td># of employees: 5-19</td>
<td>50.33</td>
<td>49.67</td>
<td>11.05</td>
<td>4.27</td>
<td>45.73</td>
</tr>
<tr>
<td># of employees: 20-49</td>
<td>45.38</td>
<td>54.62</td>
<td>18.35</td>
<td>5.55</td>
<td>48.79</td>
</tr>
<tr>
<td># of employees: 50-99</td>
<td>38.31</td>
<td>61.69</td>
<td>28.36</td>
<td>6.85</td>
<td>52.38</td>
</tr>
<tr>
<td># of employees: 100-499</td>
<td>27.06</td>
<td>72.94</td>
<td>38.56</td>
<td>8.90</td>
<td>59.13</td>
</tr>
<tr>
<td><strong>Average Salary per non-owner worker ($)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 ≤ avg salary ≤ 4,999</td>
<td>62.16</td>
<td>37.84</td>
<td>3.66</td>
<td>1.94</td>
<td>36.69</td>
</tr>
<tr>
<td>5,000 ≤ avg salary ≤ 14,999</td>
<td>57.57</td>
<td>42.43</td>
<td>7.22</td>
<td>2.69</td>
<td>38.99</td>
</tr>
<tr>
<td>15,000 ≤ avg salary ≤ 29,999</td>
<td>53.61</td>
<td>46.39</td>
<td>10.50</td>
<td>2.65</td>
<td>41.37</td>
</tr>
<tr>
<td>Avg salary ≥ 30,000</td>
<td>45.50</td>
<td>54.50</td>
<td>14.64</td>
<td>5.82</td>
<td>49.56</td>
</tr>
</tbody>
</table>
Table 2—continued

<table>
<thead>
<tr>
<th>Asset size($1,000)</th>
<th>used no alternative arrangement</th>
<th>used at least one alternative arrangement</th>
<th>used temp employees from agency</th>
<th>used leased employees</th>
<th>used independent contractors</th>
</tr>
</thead>
<tbody>
<tr>
<td>assets &lt; 25</td>
<td>68.36</td>
<td>31.64</td>
<td>3.55</td>
<td>1.79</td>
<td>29.64</td>
</tr>
<tr>
<td>25 ≤ assets &lt; 50</td>
<td>62.08</td>
<td>37.92</td>
<td>3.73</td>
<td>1.53</td>
<td>35.98</td>
</tr>
<tr>
<td>50 ≤ assets &lt; 100</td>
<td>57.32</td>
<td>42.68</td>
<td>6.26</td>
<td>2.82</td>
<td>41.30</td>
</tr>
<tr>
<td>100 ≤ assets &lt; 250</td>
<td>53.04</td>
<td>46.96</td>
<td>7.90</td>
<td>2.93</td>
<td>44.45</td>
</tr>
<tr>
<td>250 ≤ assets &lt; 500</td>
<td>49.65</td>
<td>50.35</td>
<td>10.12</td>
<td>4.81</td>
<td>45.32</td>
</tr>
<tr>
<td>500 ≤ assets &lt; 1,000</td>
<td>44.70</td>
<td>55.30</td>
<td>12.25</td>
<td>5.29</td>
<td>49.93</td>
</tr>
<tr>
<td>1,000 ≤ assets &lt; 2,500</td>
<td>42.60</td>
<td>57.40</td>
<td>17.47</td>
<td>5.14</td>
<td>51.32</td>
</tr>
<tr>
<td>2,500 ≤ assets &lt; 5,000</td>
<td>41.17</td>
<td>58.83</td>
<td>20.48</td>
<td>6.45</td>
<td>50.10</td>
</tr>
<tr>
<td>assets ≥ 5,000</td>
<td>20.83</td>
<td>79.17</td>
<td>30.97</td>
<td>4.94</td>
<td>67.58</td>
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</table>

<table>
<thead>
<tr>
<th>Total sales in 2003($1,000)</th>
<th>used no alternative arrangement</th>
<th>used at least one alternative arrangement</th>
<th>used temp employees from agency</th>
<th>used leased employees</th>
<th>used independent contractors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales &lt; 25</td>
<td>78.76</td>
<td>21.24</td>
<td>2.79</td>
<td>0.30</td>
<td>20.07</td>
</tr>
<tr>
<td>25 ≤ sales &lt; 50</td>
<td>69.00</td>
<td>31.00</td>
<td>2.83</td>
<td>1.05</td>
<td>30.15</td>
</tr>
<tr>
<td>50 ≤ sales &lt; 100</td>
<td>59.43</td>
<td>40.57</td>
<td>3.77</td>
<td>1.43</td>
<td>39.25</td>
</tr>
<tr>
<td>100 ≤ sales &lt; 250</td>
<td>57.95</td>
<td>42.05</td>
<td>5.84</td>
<td>3.25</td>
<td>38.65</td>
</tr>
<tr>
<td>250 ≤ sales &lt; 500</td>
<td>53.15</td>
<td>46.85</td>
<td>6.99</td>
<td>1.85</td>
<td>44.66</td>
</tr>
<tr>
<td>500 ≤ sales &lt; 1,000</td>
<td>48.52</td>
<td>51.48</td>
<td>7.53</td>
<td>5.53</td>
<td>48.09</td>
</tr>
<tr>
<td>1,000 ≤ sales &lt; 2,500</td>
<td>45.34</td>
<td>54.66</td>
<td>15.98</td>
<td>4.67</td>
<td>48.02</td>
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<tr>
<td>2,500 ≤ sales &lt; 5,000</td>
<td>41.87</td>
<td>58.13</td>
<td>16.71</td>
<td>5.35</td>
<td>53.51</td>
</tr>
<tr>
<td>sales ≥ 5,000</td>
<td>33.69</td>
<td>66.31</td>
<td>30.04</td>
<td>5.79</td>
<td>56.51</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total sales in 2003 vs. 2002</th>
<th>used no alternative arrangement</th>
<th>used at least one alternative arrangement</th>
<th>used temp employees from agency</th>
<th>used leased employees</th>
<th>used independent contractors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2003 sales &gt; 2002 sales</td>
<td>52.23</td>
<td>47.77</td>
<td>8.42</td>
<td>3.95</td>
<td>44.75</td>
</tr>
<tr>
<td>2003 sales &lt;= 2002 sales</td>
<td>60.54</td>
<td>39.46</td>
<td>6.87</td>
<td>1.98</td>
<td>36.47</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total profit in 2003($1,000)</th>
<th>used no alternative arrangement</th>
<th>used at least one alternative arrangement</th>
<th>used temp employees from agency</th>
<th>used leased employees</th>
<th>used independent contractors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Profit &lt; 10</td>
<td>60.09</td>
<td>39.11</td>
<td>6.75</td>
<td>3.16</td>
<td>37.25</td>
</tr>
<tr>
<td>10 ≤ profit &lt; 50</td>
<td>58.41</td>
<td>41.59</td>
<td>4.51</td>
<td>1.98</td>
<td>39.13</td>
</tr>
<tr>
<td>50 ≤ profit &lt; 100</td>
<td>58.27</td>
<td>41.73</td>
<td>5.12</td>
<td>2.17</td>
<td>39.16</td>
</tr>
<tr>
<td>100 ≤ profit &lt; 500</td>
<td>51.76</td>
<td>48.24</td>
<td>11.53</td>
<td>3.40</td>
<td>44.38</td>
</tr>
<tr>
<td>500 ≤ profit &lt; 1,000</td>
<td>41.40</td>
<td>58.60</td>
<td>14.24</td>
<td>3.54</td>
<td>55.27</td>
</tr>
<tr>
<td>1,000 ≤ profit &lt; 5,000</td>
<td>43.94</td>
<td>56.06</td>
<td>19.95</td>
<td>5.23</td>
<td>48.52</td>
</tr>
<tr>
<td>profit ≥ 5,000</td>
<td>11.78</td>
<td>88.22</td>
<td>32.38</td>
<td>5.39</td>
<td>78.23</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Credit Score</th>
<th>used no alternative arrangement</th>
<th>used at least one alternative arrangement</th>
<th>used temp employees from agency</th>
<th>used leased employees</th>
<th>used independent contractors</th>
</tr>
</thead>
<tbody>
<tr>
<td>D&amp;B credit score: 0-10</td>
<td>50.7</td>
<td>49.3</td>
<td>8.15</td>
<td>6.67</td>
<td>46.58</td>
</tr>
<tr>
<td>D&amp;B credit score: 11-25</td>
<td>61.95</td>
<td>38.05</td>
<td>10.65</td>
<td>3.96</td>
<td>33.79</td>
</tr>
<tr>
<td>D&amp;B credit score: 26-50</td>
<td>62.22</td>
<td>37.78</td>
<td>4.23</td>
<td>2.32</td>
<td>35.88</td>
</tr>
<tr>
<td>D&amp;B credit score: 51-75</td>
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<td>45.63</td>
<td>8.83</td>
<td>1.9</td>
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<tr>
<td>D&amp;B credit score: 76-90</td>
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<td>44.82</td>
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<td>41.86</td>
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<tr>
<td>D&amp;B credit score: 91-100</td>
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<td>48.03</td>
<td>10.12</td>
<td>1.88</td>
<td>45.4</td>
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</tbody>
</table>

1 Firm-level characteristics are weighted (by the owners’ ownership shares) averages of individual owner characteristics when there is more than one owner. Estimates are weighted using sample design weights.
<table>
<thead>
<tr>
<th>Percentage that have the following characteristic…</th>
<th>Among firms that…</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>used no alternative arrangement</td>
</tr>
<tr>
<td>Owner characteristics †</td>
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</tr>
<tr>
<td>Nonwhite or Hispanic</td>
<td>13.39</td>
</tr>
<tr>
<td>White</td>
<td>90.70</td>
</tr>
<tr>
<td>Black</td>
<td>3.65</td>
</tr>
<tr>
<td>Native American</td>
<td>1.41</td>
</tr>
<tr>
<td>Asian or Pacific Islander</td>
<td>4.52</td>
</tr>
<tr>
<td>Hispanic</td>
<td>3.99</td>
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<tr>
<td>Non-Hispanic white</td>
<td>86.32</td>
</tr>
<tr>
<td>Female</td>
<td>24.66</td>
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<tr>
<td>Male</td>
<td>61.60</td>
</tr>
<tr>
<td>Ownership equally</td>
<td>13.74</td>
</tr>
<tr>
<td>Industry</td>
<td></td>
</tr>
<tr>
<td>Construct and Mining</td>
<td>7.40</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>6.53</td>
</tr>
<tr>
<td>Transportation</td>
<td>3.01</td>
</tr>
<tr>
<td>Wholesale trade</td>
<td>6.15</td>
</tr>
<tr>
<td>Retail trade</td>
<td>23.47</td>
</tr>
<tr>
<td>Insurance and real estate</td>
<td>5.78</td>
</tr>
<tr>
<td>Business services</td>
<td>26.80</td>
</tr>
<tr>
<td>Professional services</td>
<td>20.77</td>
</tr>
<tr>
<td>Urbanization at main office</td>
<td></td>
</tr>
<tr>
<td>Urban</td>
<td>81.23</td>
</tr>
<tr>
<td>Rural</td>
<td>18.78</td>
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<tr>
<td>Census Region</td>
<td></td>
</tr>
<tr>
<td>Northeast</td>
<td>20.83</td>
</tr>
<tr>
<td>Midwest</td>
<td>21.99</td>
</tr>
<tr>
<td>South</td>
<td>34.39</td>
</tr>
<tr>
<td>West</td>
<td>22.80</td>
</tr>
<tr>
<td>Census Division</td>
<td></td>
</tr>
<tr>
<td>New England</td>
<td>5.90</td>
</tr>
<tr>
<td>Middle Atlantic</td>
<td>14.93</td>
</tr>
<tr>
<td>East North Central</td>
<td>15.15</td>
</tr>
<tr>
<td>West North Central</td>
<td>6.85</td>
</tr>
<tr>
<td>South Atlantic</td>
<td>18.64</td>
</tr>
<tr>
<td>East South Central</td>
<td>5.05</td>
</tr>
<tr>
<td>West South Central</td>
<td>10.71</td>
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<tr>
<td>Mountain</td>
<td>7.43</td>
</tr>
<tr>
<td>Pacific</td>
<td>15.37</td>
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</table>
Table 3—continued

<table>
<thead>
<tr>
<th>Percentage that have the following characteristic…</th>
<th>Among firms that…</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>used no alternative arrangement</td>
</tr>
<tr>
<td><strong>Primary sales area</strong></td>
<td></td>
</tr>
<tr>
<td>Within the city</td>
<td>27.72</td>
</tr>
<tr>
<td>Within the county/metropolitan area</td>
<td>33.89</td>
</tr>
<tr>
<td>Within the state</td>
<td>14.76</td>
</tr>
<tr>
<td>Within the region</td>
<td>10.20</td>
</tr>
<tr>
<td>Throughout the country</td>
<td>9.60</td>
</tr>
<tr>
<td>Globally</td>
<td>2.92</td>
</tr>
<tr>
<td><strong>Number of offices</strong></td>
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</tr>
<tr>
<td>One location</td>
<td>89.31</td>
</tr>
<tr>
<td>Two locations</td>
<td>7.57</td>
</tr>
<tr>
<td>3 or more locations</td>
<td>1.29</td>
</tr>
<tr>
<td><strong>Organizational form</strong></td>
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<tr>
<td>Proprietorship</td>
<td>50.24</td>
</tr>
<tr>
<td>Partnership</td>
<td>7.85</td>
</tr>
<tr>
<td>S corporation</td>
<td>28.85</td>
</tr>
<tr>
<td>C corporation</td>
<td>13.07</td>
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<tr>
<td>Owner managed</td>
<td>94.92</td>
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<tr>
<td><strong>Years under current ownership</strong></td>
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<td>0 ≤ years &lt; 5</td>
<td>22.09</td>
</tr>
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<td>5 ≤ years &lt; 10</td>
<td>20.80</td>
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<tr>
<td>10 ≤ years &lt; 15</td>
<td>15.39</td>
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<tr>
<td>15 ≤ years &lt; 20</td>
<td>12.22</td>
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<tr>
<td>20 ≤ years &lt; 25</td>
<td>11.52</td>
</tr>
<tr>
<td>years ≥ 25</td>
<td>17.97</td>
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<tr>
<td><strong>Number of employees</strong></td>
<td></td>
</tr>
<tr>
<td># of employees: 0-1</td>
<td>24.97</td>
</tr>
<tr>
<td># of employees: 2-4</td>
<td>41.52</td>
</tr>
<tr>
<td># of employees: 5-19</td>
<td>27.25</td>
</tr>
<tr>
<td># of employees: 20-49</td>
<td>4.74</td>
</tr>
<tr>
<td># of employees: 50-99</td>
<td>1.07</td>
</tr>
<tr>
<td># of employees: 100-499</td>
<td>0.45</td>
</tr>
<tr>
<td><strong>Average Salary per non-owner worker ($)</strong></td>
<td></td>
</tr>
<tr>
<td>0 ≤ avg salary ≤ 4,999</td>
<td>48.51</td>
</tr>
<tr>
<td>5,000 ≤ avg salary ≤ 14,999</td>
<td>18.39</td>
</tr>
<tr>
<td>15,000 ≤ avg salary ≤ 29,999</td>
<td>19.67</td>
</tr>
<tr>
<td>Avg salary ≥ 30,000</td>
<td>13.44</td>
</tr>
<tr>
<td>Asset size ($1,000)</td>
<td>used no alternative arrangement</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>Assets &lt; 25</td>
<td>37.81</td>
</tr>
<tr>
<td>25 ≤ assets &lt; 50</td>
<td>38.31</td>
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<tr>
<td>50 ≤ assets &lt; 100</td>
<td>13.55</td>
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<tr>
<td>100 ≤ assets &lt; 250</td>
<td>14.80</td>
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<tr>
<td>250 ≤ assets &lt; 500</td>
<td>8.80</td>
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<tr>
<td>500 ≤ assets &lt; 1,000</td>
<td>5.56</td>
</tr>
<tr>
<td>1,000 ≤ assets &lt; 2,500</td>
<td>4.35</td>
</tr>
<tr>
<td>2,500 ≤ assets &lt; 5,000</td>
<td>1.26</td>
</tr>
<tr>
<td>assets ≥ 5,000</td>
<td>0.75</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total sales in 2003 ($1,000)</th>
<th>used no alternative arrangement</th>
<th>used at least one alternative arrangement</th>
<th>used temp employees from agency</th>
<th>used leased employees</th>
<th>used independent contractors</th>
</tr>
</thead>
<tbody>
<tr>
<td>sales &lt; 25</td>
<td>20.29</td>
<td>7.19</td>
<td>5.39</td>
<td>1.56</td>
<td>7.30</td>
</tr>
<tr>
<td>25 ≤ sales &lt; 50</td>
<td>23.93</td>
<td>14.14</td>
<td>7.39</td>
<td>7.35</td>
<td>14.78</td>
</tr>
<tr>
<td>50 ≤ sales &lt; 100</td>
<td>11.96</td>
<td>10.73</td>
<td>5.72</td>
<td>5.84</td>
<td>11.16</td>
</tr>
<tr>
<td>100 ≤ sales &lt; 250</td>
<td>20.19</td>
<td>19.20</td>
<td>15.36</td>
<td>21.45</td>
<td>18.96</td>
</tr>
<tr>
<td>250 ≤ sales &lt; 500</td>
<td>13.39</td>
<td>15.51</td>
<td>13.26</td>
<td>9.42</td>
<td>15.89</td>
</tr>
<tr>
<td>500 ≤ sales &lt; 1,000</td>
<td>10.39</td>
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<td>12.17</td>
<td>24.03</td>
<td>14.54</td>
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<td>21.36</td>
<td>16.76</td>
<td>12.04</td>
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<td>4.88</td>
<td>7.99</td>
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<td>4.82</td>
</tr>
<tr>
<td>sales ≥ 5,000</td>
<td>2.29</td>
<td>5.97</td>
<td>15.42</td>
<td>7.19</td>
<td>5.45</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total sales in 2003 vs. 2002</th>
<th>used no alternative arrangement</th>
<th>used at least one alternative arrangement</th>
<th>used temp employees from agency</th>
<th>used leased employees</th>
<th>used independent contractors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2003 sales &gt; 2002 sales</td>
<td>41.92</td>
<td>50.35</td>
<td>50.53</td>
<td>63.28</td>
<td>50.69</td>
</tr>
<tr>
<td>2003 sales &lt;= 2002 sales</td>
<td>58.08</td>
<td>49.65</td>
<td>49.47</td>
<td>36.72</td>
<td>49.31</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total profit in 2003 ($1,000)</th>
<th>used no alternative arrangement</th>
<th>used at least one alternative arrangement</th>
<th>used temp employees from agency</th>
<th>used leased employees</th>
<th>used independent contractors</th>
</tr>
</thead>
<tbody>
<tr>
<td>profit &lt; 10</td>
<td>41.71</td>
<td>36.30</td>
<td>35.20</td>
<td>42.69</td>
<td>36.40</td>
</tr>
<tr>
<td>10 ≤ profit &lt; 50</td>
<td>24.95</td>
<td>23.35</td>
<td>14.45</td>
<td>17.11</td>
<td>23.61</td>
</tr>
<tr>
<td>50 ≤ profit &lt; 100</td>
<td>12.58</td>
<td>11.85</td>
<td>8.33</td>
<td>9.50</td>
<td>11.95</td>
</tr>
<tr>
<td>100 ≤ profit &lt; 500</td>
<td>16.68</td>
<td>20.47</td>
<td>28.04</td>
<td>22.23</td>
<td>20.24</td>
</tr>
<tr>
<td>500 ≤ profit &lt; 1,000</td>
<td>1.92</td>
<td>3.57</td>
<td>4.97</td>
<td>3.29</td>
<td>3.62</td>
</tr>
<tr>
<td>1,000 ≤ profit &lt; 5,000</td>
<td>2.07</td>
<td>3.48</td>
<td>7.02</td>
<td>4.74</td>
<td>3.23</td>
</tr>
<tr>
<td>profit ≥ 5,000</td>
<td>0.10</td>
<td>1.01</td>
<td>2.05</td>
<td>0.46</td>
<td>0.97</td>
</tr>
</tbody>
</table>

*Firm-level characteristics are weighted (by the owners’ ownership shares) averages of individual owner characteristics when there is more than one owner. Estimates are weighted using sample design weights.*
Table 4: Probit Coefficients-Baseline Specifications

<table>
<thead>
<tr>
<th>Industry</th>
<th>uses alternative arrangement - with industry dummies</th>
<th>uses alternative arrangement - with seasonal variables</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construct and mining</td>
<td>1.022</td>
<td>1.025</td>
</tr>
<tr>
<td></td>
<td>(0.114)***</td>
<td>(0.114)***</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>0.314</td>
<td>0.321</td>
</tr>
<tr>
<td></td>
<td>(0.119)***</td>
<td>(0.120)***</td>
</tr>
<tr>
<td>Transportation</td>
<td>0.589</td>
<td>0.589</td>
</tr>
<tr>
<td></td>
<td>(0.171)***</td>
<td>(0.170)***</td>
</tr>
<tr>
<td>Wholesale trade</td>
<td>0.130</td>
<td>0.132</td>
</tr>
<tr>
<td></td>
<td>(0.123)</td>
<td>(0.123)</td>
</tr>
<tr>
<td>Insurance and real estate</td>
<td>0.756</td>
<td>0.766</td>
</tr>
<tr>
<td></td>
<td>(0.121)***</td>
<td>(0.122)***</td>
</tr>
<tr>
<td>Business services</td>
<td>0.430</td>
<td>0.434</td>
</tr>
<tr>
<td></td>
<td>(0.088)***</td>
<td>(0.088)***</td>
</tr>
<tr>
<td>Professional services</td>
<td>0.486</td>
<td>0.493</td>
</tr>
<tr>
<td></td>
<td>(0.091)***</td>
<td>(0.091)***</td>
</tr>
<tr>
<td>Seasonality and cyclicality</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyclicality measure</td>
<td>0.221</td>
<td>0.218</td>
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<tr>
<td></td>
<td>(0.039)***</td>
<td>(0.038)***</td>
</tr>
<tr>
<td>Seasonality measure</td>
<td>-2.333</td>
<td>-2.365</td>
</tr>
<tr>
<td></td>
<td>(1.449)</td>
<td>(1.433)*</td>
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<tr>
<td>Firm size measures</td>
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<td></td>
</tr>
<tr>
<td>0-2 employees</td>
<td>-0.240</td>
<td>-0.257</td>
</tr>
<tr>
<td></td>
<td>(0.099)**</td>
<td>(0.098)*****</td>
</tr>
<tr>
<td>3-4 employees</td>
<td>0.009</td>
<td>0.001</td>
</tr>
<tr>
<td></td>
<td>(0.081)</td>
<td>(0.080)</td>
</tr>
<tr>
<td>Number of offices</td>
<td>0.030</td>
<td>0.032</td>
</tr>
<tr>
<td></td>
<td>(0.018)*</td>
<td>(0.019)*</td>
</tr>
<tr>
<td>Log(average salary)</td>
<td>-0.012</td>
<td>-0.012</td>
</tr>
<tr>
<td></td>
<td>(0.010)</td>
<td>(0.010)</td>
</tr>
<tr>
<td>Log(assets)</td>
<td>0.069</td>
<td>0.069</td>
</tr>
<tr>
<td></td>
<td>(0.014)***</td>
<td>(0.014)******</td>
</tr>
<tr>
<td>Log(profit)</td>
<td>-0.006</td>
<td>-0.006</td>
</tr>
<tr>
<td></td>
<td>(0.003)*</td>
<td>(0.003)*</td>
</tr>
<tr>
<td>Log(sales)</td>
<td>0.062</td>
<td>0.062</td>
</tr>
<tr>
<td></td>
<td>(0.018)***</td>
<td>(0.017)******</td>
</tr>
<tr>
<td>Sales in 2003 &gt; than 2002</td>
<td>0.114</td>
<td>0.120</td>
</tr>
<tr>
<td></td>
<td>(0.058)**</td>
<td>(0.058)****</td>
</tr>
<tr>
<td>Primary sales area</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Within the city</td>
<td>-0.575</td>
<td>-0.573</td>
</tr>
<tr>
<td></td>
<td>(0.092)***</td>
<td>(0.092)******</td>
</tr>
<tr>
<td>Within county/metropolitan area</td>
<td>-0.374</td>
<td>-0.371</td>
</tr>
<tr>
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<td>(0.085)***</td>
<td>(0.085)******</td>
</tr>
<tr>
<td>Within the state</td>
<td>-0.164</td>
<td>-0.155</td>
</tr>
<tr>
<td></td>
<td>(0.093)</td>
<td>(0.093)*</td>
</tr>
<tr>
<td>Within the region</td>
<td>-0.162</td>
<td>-0.158</td>
</tr>
<tr>
<td></td>
<td>(0.100)</td>
<td>(0.100)</td>
</tr>
<tr>
<td>Table 4—continued</td>
<td>uses alternative arrangement - with industry dummies</td>
<td>uses alternative arrangement - with seasonal variables</td>
</tr>
<tr>
<td>-------------------</td>
<td>----------------------------------------------------</td>
<td>-----------------------------------------------------</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Northeast</td>
<td>0.080</td>
<td>0.076</td>
</tr>
<tr>
<td></td>
<td>(0.084)</td>
<td>(0.083)</td>
</tr>
<tr>
<td>South</td>
<td>0.103</td>
<td>0.112</td>
</tr>
<tr>
<td></td>
<td>(0.075)</td>
<td>(0.075)</td>
</tr>
<tr>
<td>West</td>
<td>0.249</td>
<td>0.246</td>
</tr>
<tr>
<td></td>
<td>(0.080)**</td>
<td>(0.080)**</td>
</tr>
<tr>
<td>Urban indicator</td>
<td>0.125</td>
<td>0.130</td>
</tr>
<tr>
<td></td>
<td>(0.077)</td>
<td>(0.077)*</td>
</tr>
<tr>
<td><strong>Owner &amp; Other Firm Characteristics</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>0.051</td>
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</tr>
<tr>
<td></td>
<td>(0.277)</td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>0.196</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.312)</td>
<td></td>
</tr>
<tr>
<td>Asian or Pacific</td>
<td>-0.106</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.302)</td>
<td></td>
</tr>
<tr>
<td>Native American</td>
<td>0.099</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.277)</td>
<td></td>
</tr>
<tr>
<td>Hispanic</td>
<td>0.135</td>
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</tr>
<tr>
<td></td>
<td>(0.145)</td>
<td></td>
</tr>
<tr>
<td>Female or equally owned</td>
<td>-0.023</td>
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</tr>
<tr>
<td></td>
<td>(0.058)</td>
<td></td>
</tr>
<tr>
<td>Owner managed</td>
<td>-0.008</td>
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</tr>
<tr>
<td></td>
<td>(0.112)</td>
<td></td>
</tr>
<tr>
<td>Partnership</td>
<td>0.094</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.106)</td>
<td></td>
</tr>
<tr>
<td>S corporation</td>
<td>0.031</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.074)</td>
<td></td>
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<tr>
<td>C corporation</td>
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<tr>
<td></td>
<td>(0.087)</td>
<td></td>
</tr>
<tr>
<td>Log(firm age)</td>
<td>-0.038</td>
<td></td>
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<tr>
<td></td>
<td>(0.039)</td>
<td></td>
</tr>
<tr>
<td>D&amp;B continuous credit score</td>
<td>-0.001</td>
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</tr>
<tr>
<td></td>
<td>(0.001)</td>
<td></td>
</tr>
<tr>
<td>Constant</td>
<td>-1.756</td>
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</tr>
<tr>
<td></td>
<td>(0.403)**</td>
<td>(0.288)**</td>
</tr>
<tr>
<td><strong>Observations</strong></td>
<td>4181</td>
<td>4181</td>
</tr>
<tr>
<td>Wald tests of joint significance</td>
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<td></td>
</tr>
<tr>
<td>$H_0: \text{organization type}=0$</td>
<td>$F(3, 4107) = 0.38$</td>
<td>$F(3, 4077) = 0.71$</td>
</tr>
<tr>
<td>$\text{Prob} &gt; F = 0.7652$</td>
<td>$\text{Prob} &gt; F = 0.5463$</td>
<td></td>
</tr>
<tr>
<td>$H_0: \text{race &amp; ethnicity}=0$</td>
<td>$F(5, 4105) = 0.70$</td>
<td>$F(5, 4075) = 0.92$</td>
</tr>
<tr>
<td>$\text{Prob} &gt; F = 0.6248$</td>
<td>$\text{Prob} &gt; F = 0.4655$</td>
<td></td>
</tr>
</tbody>
</table>

All estimates computed using multiple implication techniques to adjust for imputed data and weighted to control for survey using sample weights and stratification. Firms with 5 or more employees are the omitted size class. Retail trade is the omitted industry; the Midwest is the omitted region; and sole proprietorship is the omitted organizational form. Standard errors in parentheses. * significant at 10%; ** significant at 5%; *** significant at 1%.
Table 5 Probit Coefficients—By Specific Arrangement

<table>
<thead>
<tr>
<th>Industry</th>
<th>uses alternative arrangement</th>
<th>uses employees from a temp agency</th>
<th>uses leased employees</th>
<th>uses independent contractors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturing</td>
<td>0.321</td>
<td>0.369</td>
<td>-0.055</td>
<td>0.263</td>
</tr>
<tr>
<td></td>
<td>(0.120)***</td>
<td>(0.163)**</td>
<td>(0.241)</td>
<td>(0.120)**</td>
</tr>
<tr>
<td>Transportation</td>
<td>0.589</td>
<td>0.155</td>
<td>0.445</td>
<td>0.605</td>
</tr>
<tr>
<td></td>
<td>(0.170)***</td>
<td>(0.209)</td>
<td>(0.271)*</td>
<td>(0.170)***</td>
</tr>
<tr>
<td>Wholesale trade</td>
<td>0.132</td>
<td>0.350</td>
<td>0.096</td>
<td>0.004</td>
</tr>
<tr>
<td></td>
<td>(0.123)</td>
<td>(0.173)**</td>
<td>(0.274)</td>
<td>(0.127)</td>
</tr>
<tr>
<td>Insurance and real estate</td>
<td>0.766</td>
<td>0.265</td>
<td>0.284</td>
<td>0.765</td>
</tr>
<tr>
<td></td>
<td>(0.122)***</td>
<td>(0.188)</td>
<td>(0.242)</td>
<td>(0.122)***</td>
</tr>
<tr>
<td>Business services</td>
<td>0.434</td>
<td>0.265</td>
<td>0.275</td>
<td>0.422</td>
</tr>
<tr>
<td></td>
<td>(0.088)***</td>
<td>(0.153)*</td>
<td>(0.224)</td>
<td>(0.089)***</td>
</tr>
<tr>
<td>Professional services</td>
<td>0.493</td>
<td>0.327</td>
<td>0.205</td>
<td>0.478</td>
</tr>
<tr>
<td></td>
<td>(0.091)***</td>
<td>(0.148)**</td>
<td>(0.203)</td>
<td>(0.091)***</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Firm Size Measures</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0-2 employees</td>
<td>-0.257</td>
<td>-0.713</td>
<td>-0.525</td>
<td>-0.220</td>
</tr>
<tr>
<td></td>
<td>(0.098)***</td>
<td>(0.141)***</td>
<td>(0.195)***</td>
<td>(0.100)**</td>
</tr>
<tr>
<td>3-4 employees</td>
<td>0.001</td>
<td>-0.323</td>
<td>-0.169</td>
<td>0.013</td>
</tr>
<tr>
<td></td>
<td>(0.080)</td>
<td>(0.111)***</td>
<td>(0.151)</td>
<td>(0.081)</td>
</tr>
<tr>
<td>Number of offices</td>
<td>0.032</td>
<td>0.015</td>
<td>-0.005</td>
<td>0.002</td>
</tr>
<tr>
<td></td>
<td>(0.019)*</td>
<td>(0.015)</td>
<td>(0.011)</td>
<td>(0.005)</td>
</tr>
<tr>
<td>Log(average salary)</td>
<td>-0.012</td>
<td>-0.005</td>
<td>-0.006</td>
<td>-0.015</td>
</tr>
<tr>
<td></td>
<td>(0.010)</td>
<td>(0.015)</td>
<td>(0.018)</td>
<td>(0.010)</td>
</tr>
<tr>
<td>Log(assets)</td>
<td>0.069</td>
<td>0.031</td>
<td>0.016</td>
<td>0.065</td>
</tr>
<tr>
<td></td>
<td>(0.014)***</td>
<td>(0.022)</td>
<td>(0.042)</td>
<td>(0.014)***</td>
</tr>
<tr>
<td>Log(profit)</td>
<td>-0.006</td>
<td>-0.003</td>
<td>-0.016</td>
<td>-0.006</td>
</tr>
<tr>
<td></td>
<td>(0.003)*</td>
<td>(0.004)</td>
<td>(0.006)***</td>
<td>(0.003)*</td>
</tr>
<tr>
<td>Log(sales)</td>
<td>0.062</td>
<td>0.049</td>
<td>0.061</td>
<td>0.060</td>
</tr>
<tr>
<td></td>
<td>(0.017)***</td>
<td>(0.032)</td>
<td>(0.057)</td>
<td>(0.018)***</td>
</tr>
<tr>
<td>Sales in 2003 &gt; than 2002</td>
<td>0.120</td>
<td>-0.018</td>
<td>0.293</td>
<td>0.134</td>
</tr>
<tr>
<td></td>
<td>(0.058)***</td>
<td>(0.080)</td>
<td>(0.113)***</td>
<td>(0.058)**</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Primary Sales Area</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Within the city</td>
<td>-0.573</td>
<td>-0.496</td>
<td>-0.190</td>
<td>-0.540</td>
</tr>
<tr>
<td></td>
<td>(0.092)***</td>
<td>(0.127)***</td>
<td>(0.208)</td>
<td>(0.093)***</td>
</tr>
<tr>
<td>Within county/metropolitan area</td>
<td>-0.371</td>
<td>-0.435</td>
<td>0.044</td>
<td>-0.318</td>
</tr>
<tr>
<td></td>
<td>(0.085)***</td>
<td>(0.113)***</td>
<td>(0.170)</td>
<td>(0.085)***</td>
</tr>
<tr>
<td>Within the state</td>
<td>-0.155</td>
<td>-0.313</td>
<td>0.213</td>
<td>-0.133</td>
</tr>
<tr>
<td></td>
<td>(0.093)*</td>
<td>(0.119)***</td>
<td>(0.170)</td>
<td>(0.093)</td>
</tr>
<tr>
<td>Within the region</td>
<td>-0.158</td>
<td>-0.396</td>
<td>0.037</td>
<td>-0.097</td>
</tr>
<tr>
<td></td>
<td>(0.100)</td>
<td>(0.132)***</td>
<td>(0.186)</td>
<td>(0.100)</td>
</tr>
<tr>
<td>Construct and mining</td>
<td>1.025</td>
<td>0.499</td>
<td>0.347</td>
<td>1.008</td>
</tr>
<tr>
<td></td>
<td>(0.114)***</td>
<td>(0.161)***</td>
<td>(0.221)</td>
<td>(0.114)***</td>
</tr>
<tr>
<td></td>
<td>uses alternative arrangement</td>
<td>uses employees from a temp agency</td>
<td>uses leased employees</td>
<td>uses independent contractors</td>
</tr>
<tr>
<td>---------------------</td>
<td>------------------------------</td>
<td>----------------------------------</td>
<td>-----------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urban indicator</td>
<td>0.130</td>
<td>0.389</td>
<td>0.049</td>
<td>0.087</td>
</tr>
<tr>
<td></td>
<td>(0.077)*</td>
<td>(0.123)***</td>
<td>(0.128)</td>
<td>(0.077)</td>
</tr>
<tr>
<td>Northeast</td>
<td>0.076</td>
<td>-0.015</td>
<td>0.043</td>
<td>0.091</td>
</tr>
<tr>
<td></td>
<td>(0.083)</td>
<td>(0.119)</td>
<td>(0.167)</td>
<td>(0.084)</td>
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<tr>
<td>South</td>
<td>0.112</td>
<td>0.090</td>
<td>0.079</td>
<td>0.100</td>
</tr>
<tr>
<td></td>
<td>(0.075)</td>
<td>(0.103)</td>
<td>(0.138)</td>
<td>(0.075)</td>
</tr>
<tr>
<td>West</td>
<td>0.246</td>
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<td>(0.080)***</td>
<td>(0.107)</td>
<td>(0.156)</td>
<td>(0.080)***</td>
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<td><strong>Owner &amp; Other Firm Characteristics</strong></td>
<td></td>
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<tr>
<td>Female or equally owned</td>
<td>-0.023</td>
<td>-0.178</td>
<td>-0.312</td>
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<td>(0.088)**</td>
<td>(0.124)**</td>
<td>(0.058)</td>
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<tr>
<td>Owner managed</td>
<td>-0.025</td>
<td>-0.133</td>
<td>0.192</td>
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<tr>
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<td>(0.112)</td>
<td>(0.138)</td>
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<td>(0.112)</td>
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<tr>
<td>Log(firm age)</td>
<td>-0.040</td>
<td>-0.028</td>
<td>0.077</td>
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<td>D&amp;B continuous credit score</td>
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<td>-0.001</td>
<td>-0.007</td>
<td>-0.000</td>
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<tr>
<td></td>
<td>(0.001)</td>
<td>(0.001)</td>
<td>(0.002)**</td>
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<td>constant</td>
<td>-1.768</td>
<td>-2.144</td>
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<td>-1.791</td>
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<tr>
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<td>(0.291)***</td>
<td>(0.443)***</td>
<td>(0.706)***</td>
<td>(0.295)***</td>
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</table>

All estimates computed using multiple imputation techniques to adjust for imputed data and weighted to control for survey using sample weights and stratification. Firms with 5 or more employees are the omitted size class. Retail trade is the omitted industry; the Midwest is the omitted region; and sole proprietorship is the omitted organizational form. Standard errors in parentheses. * significant at 10%; ** significant at 5%; *** significant at 1%.
Table 6: Marginal Effects by Arrangement Type

<table>
<thead>
<tr>
<th></th>
<th>uses alternative arrangement</th>
<th>uses employees from a temp agency</th>
<th>uses leased employees</th>
<th>uses independent contractors</th>
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<tr>
<td><strong>Industry</strong></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Construct and mining</td>
<td>0.385</td>
<td>0.071</td>
<td>0.019</td>
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<td>(0.036)***</td>
<td>(0.029)**</td>
<td>(0.015)</td>
<td>(0.038)***</td>
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<td>Manufacturing</td>
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<td>0.050</td>
<td>-0.002</td>
<td>0.103</td>
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<td>(0.047)***</td>
<td>(0.027)*</td>
<td>(0.009)</td>
<td>(0.048)**</td>
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<tr>
<td>Transportation</td>
<td>0.231</td>
<td>0.018</td>
<td>0.028</td>
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<td>(0.063)***</td>
<td>(0.027)</td>
<td>(0.024)</td>
<td>(0.065)***</td>
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<tr>
<td>Wholesale trade</td>
<td>0.052</td>
<td>0.047</td>
<td>0.004</td>
<td>0.001</td>
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<tr>
<td></td>
<td>(0.049)</td>
<td>(0.028)*</td>
<td>(0.013)</td>
<td>(0.049)</td>
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<tr>
<td>Insurance and real estate</td>
<td>0.296</td>
<td>0.033</td>
<td>0.015</td>
<td>0.298</td>
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<td>(0.043)***</td>
<td>(0.028)</td>
<td>(0.016)</td>
<td>(0.045)***</td>
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<tr>
<td>Business services</td>
<td>0.171</td>
<td>0.031</td>
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<td>0.165</td>
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<td>(0.035)***</td>
<td>(0.020)</td>
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<tr>
<td>Professional services</td>
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<td>0.040</td>
<td>0.009</td>
<td>0.187</td>
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<td>(0.035)***</td>
<td>(0.020)**</td>
<td>(0.011)</td>
<td>(0.036)***</td>
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<td><strong>Firm Size Measures</strong></td>
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<td>0-2 employees</td>
<td>-0.100</td>
<td>-0.069</td>
<td>-0.020</td>
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<tr>
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<td>(0.038)***</td>
<td>(0.013)***</td>
<td>(0.007)***</td>
<td>(0.038)**</td>
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<tr>
<td>3-4 employees</td>
<td>0.000</td>
<td>-0.029</td>
<td>-0.006</td>
<td>0.005</td>
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<td>(0.031)</td>
<td>(0.009)***</td>
<td>(0.005)</td>
<td>(0.031)</td>
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<tr>
<td>Number of offices</td>
<td>0.013</td>
<td>0.002</td>
<td>-0.000</td>
<td>0.001</td>
</tr>
<tr>
<td></td>
<td>(0.007)*</td>
<td>(0.002)</td>
<td>(0.000)</td>
<td>(0.002)</td>
</tr>
<tr>
<td>Log(average salary)</td>
<td>-0.005</td>
<td>-0.001</td>
<td>-0.000</td>
<td>-0.006</td>
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<tr>
<td></td>
<td>(0.004)</td>
<td>(0.002)</td>
<td>(0.001)</td>
<td>(0.004)</td>
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<tr>
<td>Log(profit)</td>
<td>-0.003</td>
<td>-0.000</td>
<td>-0.001</td>
<td>-0.002</td>
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<tr>
<td></td>
<td>(0.001)*</td>
<td>(0.000)</td>
<td>(0.000)***</td>
<td>(0.001)*</td>
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<tr>
<td>Log(assets)</td>
<td>0.027</td>
<td>0.003</td>
<td>0.001</td>
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<td>(0.006)***</td>
<td>(0.002)</td>
<td>(0.002)</td>
<td>(0.005)***</td>
</tr>
<tr>
<td>Log(sales)</td>
<td>0.024</td>
<td>0.005</td>
<td>0.002</td>
<td>0.023</td>
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<td>(0.007)***</td>
<td>(0.003)</td>
<td>(0.002)</td>
<td>(0.007)***</td>
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<tr>
<td>Sales in 2003 &gt; than 2002</td>
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<td>-0.002</td>
<td>0.012</td>
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<tr>
<td></td>
<td>(0.023)**</td>
<td>(0.008)</td>
<td>(0.005)**</td>
<td>(0.022)**</td>
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<td><strong>Primary Sales Area</strong></td>
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<tr>
<td>Within the city</td>
<td>-0.212</td>
<td>-0.042</td>
<td>-0.007</td>
<td>-0.195</td>
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<tr>
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<td>(0.031)***</td>
<td>(0.009)***</td>
<td>(0.007)</td>
<td>(0.031)***</td>
</tr>
<tr>
<td>Within county/metropolitan area</td>
<td>-0.142</td>
<td>-0.041</td>
<td>0.002</td>
<td>-0.120</td>
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<tr>
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<td>(0.032)***</td>
<td>(0.010)***</td>
<td>(0.007)</td>
<td>(0.031)***</td>
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<tr>
<td>Within the state</td>
<td>-0.060</td>
<td>-0.028</td>
<td>0.010</td>
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<td>(0.035)*</td>
<td>(0.009)***</td>
<td>(0.009)</td>
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<tr>
<td>Within the region</td>
<td>-0.061</td>
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<td>0.002</td>
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<td>(0.038)</td>
<td>(0.009)***</td>
<td>(0.008)</td>
<td>(0.037)</td>
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<tr>
<td></td>
<td>uses alternative arrangement</td>
<td>uses employees from a temp agency</td>
<td>uses leased employees</td>
<td>uses independent contractors</td>
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<td>-----------------------------</td>
<td>----------------------------------</td>
<td>----------------------</td>
<td>-----------------------------</td>
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<td>(0.008)**</td>
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<td>(0.031)**</td>
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<td><strong>Owner &amp; Other Firm Characteristics</strong></td>
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<td></td>
</tr>
<tr>
<td>Female or equally owned</td>
<td>-0.009</td>
<td>-0.018</td>
<td>-0.012</td>
<td>0.005</td>
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<tr>
<td></td>
<td>(0.023)</td>
<td>(0.008)**</td>
<td>(0.004)**</td>
<td>(0.022)</td>
</tr>
<tr>
<td>Owner managed</td>
<td>-0.010</td>
<td>-0.015</td>
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<td>0.016</td>
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<td>(0.006)</td>
<td>(0.043)</td>
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<tr>
<td>Log(firm age)</td>
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<td>D&amp;B continuous credit score</td>
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<td>(0.000)</td>
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All estimates computed using multiple implication techniques to adjust for imputed data and weighted to control for survey using sample weights and stratification. Standard errors in parentheses. * significant at 10%; ** significant at 5%; *** significant at 1%.
References


