ORIGINAL RESEARCH

# Are the best of the best better than the rest? The effect of multiple rankings on company value

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**Abstract** In this paper, we explore the cumulative and interactive effects from being listed on one or more of four popular annual surveys (*Fortune*'s "Most Admired Companies" and "100 Best Companies to Work For," *Business Ethics* "Best Corporate Citizens," and *Working Mother*'s "100 Best Companies for Working Mothers.") We find portfolios constructed of firms selected across these surveys add value to a portfolio, initially and over longer-holding periods, but the overall results are driven by the performance of those firms selected from the Most Admired Companies and Best Corporate Citizens rankings. We also discover that being listed in two or three different surveys on a yearly basis produces incremental value.

Keywords Shareholders wealth · Event study · Investment strategy

**JEL Classification** G11 portfolio choice  $\cdot$  Investment decisions  $\cdot$  G14 information and market efficiency  $\cdot$  Event studies

# 1 Introduction

Since Peters and Waterman (1982) first identified what they felt were the best managed companies in their publication of *In Search of Excellence: Lessons from America's Best Run Companies*, a steady stream of books and periodicals with lists of superlative

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companies have been published in the business press. These lists range from companies with the toughest bosses to those providing employees with the most support in their management of work/family issues. Among the most well-known of these rankings is *Fortune's* "Most Admired Companies." They rank both the "most admired" and "least admired" companies based on an annual survey, appearing each year since 1983.

The increased popularity of these rankings has prompted scholars to question whether there is any information content in these rankings, i.e., is there a relation between the inclusion of companies on a best practices list and the raw and risk-adjusted return to the investors of those companies at the time of and subsequent to the announcement of the list of the top companies? Clayman (1987, 1994), investigating "In Search of Excellence" firms, finds mixed results regarding the post-book release performance of excellent firms. Such divergent results seem commonplace in the investigation of a survey's impact on shareholder returns. In some instances (see, e.g., Filbeck et al. 1997), there is evidence indicating that *Fortune's* higher-ranked companies are not significantly different from market returns or from a matched set of unranked but otherwise similar companies (see, e.g., Kolodny et al. 1989). In such instances, perhaps the information content of the surveys is simply a very specific detail about a company (e.g., where a working mother might best seek employment based on rankings found from a perusal of *Working Mother* magazine's "100 Best Companies for Working Mothers.")

The focus of this study is a subject which has yet to be explored in the context of company rankings: whether there are cumulative or interactive effects on shareholder wealth from being listed on one or more of these rankings. As such, we seek to determine whether the information content from being listed on additional surveys may be viewed as incremental information that validates the first ranking or whether it is viewed as a redundant acknowledgement of what the market had already established.

The study of the agreement or disagreement among the assessment of the prospects of a company has been a frequent topic in the analysts forecast literature. (See, e.g., Ramnath et al. 2008, for a review of the literature.) One strand of this literature focuses on the dispersion in analysts' forecasts (e.g., Johnson 2004) while another studies the consequences of analysts' consensus (e.g., Bradshaw 2004) on subsequent shareholder returns. This paper is more closely connected with the latter perspective of analyzing whether there is incremental value to evidence of consensus, in this case the inclusion on an additional ranking of best corporate practices. In general, best corporate practices are recognized by the market. Ferreira et al. (2008) find that large firms that receive certification for quality management, type ISO 9000, experience positive, statistically-significant abnormal returns over subsequent longer-term time horizons. Unlike the forecast analysts who attempting to directly predict the future prospects of a company, the intent of corporate ranking is more indirect.

By testing for the effects of the cumulative listings on shareholder wealth, we are exploring a new research question, which contributes to the literature that attempts to answer the fundamental question that the results from surveys may provide an answer to, viz., what are the best managed companies. This perspective has been raised by others such as Russo and Fouts (1997) who hypothesize that environmental performance may proxy for effective management. Their underlying assumption was that environmental management and the associated performance outcome are integral parts of effective management. This perspective defines effective management in holistic terms by considering all corporate stakeholders, including the environment, in management decisions.

In the same way then, we might presume that a company that treats its employees well, or is otherwise known for its commitment to multiple stakeholders, might be viewed as a well-managed company, and is therefore more likely to be a consistently superior performer by virtue of its ability to manage the many internal and external challenges that face modern managers. Our hypothesis is that to the extent that we discover cumulative or interactive effects among the rankings, we are confirming the belief that the survey results provide potential investors a better ability to identify the best managed companies and, as such, the companies most deserving of their investment dollars. In this study we have chosen four of the most well-known surveys: *Fortune's* Most Admired Companies, *Business Ethics'* 100 Best Corporate Citizens, *Working Mother's* 100 Best Companies for Working Mothers and *Fortune's* Best 100 Companies to Work For in America as the basis for testing our hypothesis.

The rest of the paper is organized as follows: In Sect. 2, we review the literature. Section 3 contains the data selection and descriptions of the each of our included surveys. The research hypotheses and methods along with the corresponding empirical results on the rankings samples and associated benchmarks are presented in Sect. 4. Section 5 contains some additional robustness tests on our results. In Sect. 6, we discuss our results and offer concluding remarks.

# 2 Literature review

Studies of *Fortune's* corporate awards are numerous and offer mixed results. Filbeck et al. (1997), Vergin and Qoronfleh (1998), and Anderson and Smith (2006) have studied the performance of *Fortune's* "Most Admired Companies." Each study finds that the most admired firms do indeed outperform the market. In contrast, Statman et al. (2008) find opposite results. More recently, when Anginer and Statman (2010) investigate the returns to America's Most Admired Companies, they find that stocks of the most admired companies had lower returns than stocks of spurned companies (those with the lowest *Fortune* scores) during the 23 years from April 1983 through December 2007. They observe greater volatility with the spurned portfolio.

In two related works, Preece and Filbeck (1999), Filbeck and Preece (2003) examine the returns to companies that were awarded *Working Mother* magazine's "100 Best Companies for Working Mothers" (1999) and *Fortune's* "Best 100 Companies to Work For in America" (2003), respectively, and compare both raw and risk-adjusted returns of these best practices companies to the S&P 500 and a matched sample of companies. In the case of the "Working Mothers" portfolio, they find that investors do not earn statistically significant excess raw returns relative to the S&P 500. However, after adjusting for risk, the portfolio outperforms the market, but underperforms the matched sample portfolio. In the "Best Companies to Work For" portfolio, the best practice portfolio outperforms the market sample portfolio outperforms the matched sample portfolio outperforms the "Best Companies to Work For" portfolio, the "Best Companies to Work For." The editors of *Business Ethics*, publishers of the "100 Best Corporate Citizens" through *Corporate Responsibility (CR) Magazine*, collects information on companies included in the Russell 1000 Index, Domini 400 Index and S&P 500 Index based on good corporate citizens.

Verschoor and Murphy (2002) are the first to investigate the financial performance of the best corporate citizens by examining the companies in the 2001 *Business Ethics* survey. Verschoor and Murphy separate out the companies from the top 100 corporate citizens that are also listed on the S&P 500, *Fortune* 500, and *Fortune*'s most admired companies and

compare them to companies from these lists that are not among the top 100 corporate citizens. By looking at measures such as total profitability, market capitalization, and the *Fortune* most admired scores, Verschoor and Murphy conclude that the financial performance of the top 100 corporate citizens is at least as good as those of the other companies. Filbeck et al. (2009) perform additional tests on the companies from the *Business Ethics* rankings and find that a portfolio formed from these firms outperforms both the S&P 500 and a sample of matched firms. In general, Statman (2006) shows that the returns of socially responsible indices are generally higher than the returns of the S&P 500 Index. However, while the monthly alpha of the DSI 400 Index for the period May 1990–April 2004 exceeds that of the S&P 500 Index by 0.09 %, none of the alphas are statistically significant. Nelling and Webb (2008) find that it is more the case that a strong stock market performance results in a greater firm investment in corporate social responsibility (CSR) activity than does CSR activity affect financial performance.

Fang and Peress (2009) analyze cross-sectional relationships between media coverage and expected stock returns. Their results show a significant return premium on stocks with little or no media coverage and suggest mass media's power to influence security pricing comes from its ability to reach mass amounts of people, not from its ability to form opinions. Palmon et al. (2009), investigating recommendations made by columnists for Business Week, Forbes, and Fortune, find that recommendations that contain references to management or rumors of mergers/acquisitions result in greater market reactions. The four sample listings selected for this study, representing three media outlets, offer the opportunity to study a cross-section of outlets to see the impact of media coverage. According to Fortune's media kit (http://www.fortunemediakit.com/readerpro.htm), Fortune claims a readership of 4,384,000. Working Mother's readership is in excessive of 2,200,000. According to CR Magazine, publisher of The Best Corporate Citizens survey (http://www. thecro.com/files/CR%20Media%20Guide%202010\_new.pdf), over 3 million individuals are reached either by their print or online editions (http://mediakit.workingmother.com/ web?service=vpage/4275), while the Corporate Responsibility Magazine has 20,000 subscribers (http://www.bioportfolio.com/corporate/company/3487/Corporate-Responsibility-Magazine.html).

# 3 Sample selection and description of the four listings

3.1 The most admired companies (MAC) list description

Each year since 1983, *Fortune* magazine has published a list of firms deemed as America's "Most Admired Companies." This designation is based on a survey of business executives and analysts who are asked to rate companies based on such factors as product quality and reputation of management. The survey asks more than 8,000 financial analysts, senior executives, and outside directors to rate the ten largest companies in their own industry on eight reputational indicators on a scale of zero (poor) to ten (excellent). The characteristics include the quality of management; the stewardship of corporate assets; financial soundness; the value of long-term assets; the quality of the products or services; innovativeness; the ability to attract, develop, and keep talented people; and the responsibility to the community and the environment. The eight scores are then averaged to arrive at a final score. For example, in 2010, Apple has an average score of 7.95, which gives it the highest rating in the survey. Japan Airline is the lowest rated firm in the 2010 survey with a score of 2.96.

# 3.2 The best companies to work for (BCWF) list description

*Fortune* created the annual "100 Best Companies to Work For in America" award in the January 12, 1998 issue. The "100 Best Companies to Work For in America" list is significantly different from other awards in that the authors, Robert Levering and Milton Moskowitz, survey employees rather than "experts" and company executives. *Working Mother* uses corporate reporting of work/family policies such as the use of flexible work schedules and on or near-site childcare to create its list of the "100 Best Firms For Working Mothers." In *Working Mother's* case, companies fill out a comprehensive survey to become eligible for the recognition.

In the initial survey of the "100 Best Companies to Work For in America," Levering and Moskowitz selected 238 companies from a database of more than 1,000 firms that they considered most suitable for the award. Companies must be at least 10 years old and have a minimum of 500 employees. One hundred sixty-one firms agreed to participate out of the 238 identified companies. The 161 candidate companies were asked to randomly select 225 employees to receive the Great Place to Work Trust Index. The survey, developed by the Great Place to Work Institute of San Francisco, evaluates trust in management, pride in work/company, and camaraderie. Companies also fill out a comprehensive 29-page questionnaire developed by Hewitt Associates. Finally, company officials submit employee benefits booklets, videos and newsletters.

Many of the areas that *Working Mother* considers for its award, such as support for work/family balance, are incorporated in the *Fortune* "100 Best Firms" award. In fact several firms (e.g., Corning and Johnson & Johnson), show up on both lists. However, the *Fortune* award is broader. The *Fortune* award considers both work/family issues as well as matters that are important to all employees. For instance, compensation is crucial in the *Fortune* survey. Companies that offer stock options to the majority of employees, not just top management, get high ratings from workers. But again, this award encompasses non-pecuniary benefits beyond how much a worker gets paid.

# 3.3 The best corporate citizens (BCC) list description

In the press release of its inaugural issue of the 100 Best Corporate Citizens in March of 2000, the editors of *Business Ethics* noted that serving stockholders is not the only definition of corporate success. They further wrote that among the benefits of corporate citizenship are better employees, customer loyalty, minimal risks of litigation, and possibly a lower cost of capital. In their view, a good corporate citizen is one that excels at serving a variety of stakeholders well. To make this determination, *Business Ethics* collected information on companies included in the Russell 1000 Index, Domini 400 Index and S&P 500 Index.<sup>1</sup> KLD Research and Analytics was the initial source of the ratings data for the companies considered in the rankings. When *Corporate Responsibility Magazine* took over the rankings in 2007, IW Financial assumed responsibility for the research behind the rankings.

In determining its overall score for companies, *Business Ethics* identified seven stakeholder groups: shareholders, community, minorities and women, employees, environment, non-US stakeholders, and customers.<sup>2</sup> In each category, KLD indicated where the

<sup>&</sup>lt;sup>1</sup> In years prior to 2003, *Business Ethics* used the 500 companies in the S&P 500 along with 150 companies from the Domini Index. Since 2007, the list has been compiled by *Corporate Responsibility Magazine*.

<sup>&</sup>lt;sup>2</sup> In the first year of the survey, *Business Ethics* calculated the overall score based on four stakeholders: shareholders, community, employees, and customers.

companies have strengths and concerns. The net score in each category is the number of strengths minus the number of concerns.<sup>3</sup>

Examples of strengths in the employee category might include profit sharing, retirement benefits, and employee involvement, while poor union relations and workforce reductions may constitute concerns. Environmental strengths might include life cycle analysis, recyclable products, and emission controls. Examples of concerns are toxic emissions, superfund litigation, and local statute violations.

Since all seven variables have different scales, they are standardized to indicate performance relative to peers based on the number of standard deviations from the mean of the peer group. The scores represent the number of standard deviations above or below the mean of the peer group. For the shareholder performance measure, a 1-year total return (stock appreciation plus dividends) is used, standardized in the same manner.<sup>4</sup>

The score for each category is then included in an equally-weighted average of all seven stakeholder measures. As a final step, a selection committee conducts additional research on any corporate scandals, or other negative issues that may have arisen, and may recommend that a firm be eliminated from further consideration. For example, companies may be removed for accounting fraud, or if they lost money for 2 or more years in a row.

# 3.4 The best companies for working mothers (BSWM) list description

Since its initial publication in 1986, the annual *Working Mother's* "100 Best Companies for Working Mothers has emerged as one of the most important corporate awards." The number of companies recognized by *Working Mother* has grown from 35 in 1986 to 100 today, with the number of entrants vying for the award rising commensurately. The increase is due not only to increased interest in firms hoping to earn the award, but also to the extraordinary increase in the number of firms offering family friendly benefits. According to the *Wall Street Journal*, writers used a mover's dolly to cart the volumes of applications submitted by firms.

*Working Mother* bases their award on five factors (four prior to1996). They rate firms on pay, opportunities for women to advance, childcare assistance, and other family-friendly benefits. In 1996 workplace flexibility became a separate category. Specific policies, such as on-site or near-site childcare facilities, flexible work schedules, job sharing, reduced work options, compressed work weeks, paid paternity leave, leave to care for the elderly, and others, are considered family-oriented policies by *Working Mother* as well as other publications.

# 3.5 Hypothesis

The first hypothesis is that there will be a positive market reaction to the announcement of firms being included in each of the four surveys included into this study. This hypothesis is consistent with the market's perception that the share prices of these firms are worthy of upward reevaluation when the news associated with each survey is published. This scenario would support the theory that the positive benefits accruing to the firm and thus to the shareholders, such as reduced turnover, enhanced recruitment, and high worker morale,

<sup>&</sup>lt;sup>3</sup> Additional information on the methodology, the composite scores, and their components can be found at http://www.business-ethics.com/1999-100b.htm.

<sup>&</sup>lt;sup>4</sup> Prior to 2003, *Business Ethics* used a three-year average instead of the one-year average currently being used.

would outweigh the costs of providing the benefits. In addition, to the extent that we discover cumulative or interactive effects among the rankings, we are validating the belief that the survey results provide potential investors a better ability to identify which are the best managed companies and, as such, the companies most deserving of their investment dollars.

Alternatively, the market may not respond at all to the announcement, which would indicate that either the market does not value the information contained in the survey/ surveys or that the "news" contained in the survey/surveys are already fully valued.

Our second hypothesis is that the impact of inclusion in surveys will produce long-term superior returns when adjusted for risk. While the survey information becomes public at the time of associated press releases, dissemination of the news can be further confounded by readers receiving news from print or Internet sources on different days due to differences in mailing times or online access. For these reasons, the use of return measures involving holding periods measured in months rather than days may be more revealing. To test our second hypothesis, we employ a number of long-term risk-adjusted performance measures.

#### 3.6 The study sample

Our sample period for this study includes 9 years (2000–2008) of each of the four publications.<sup>5</sup> To be included in the sample, the company must meet the following criteria:

- 1. The sample companies must have return records on the Center for Research on Stock Prices (CRSP) Daily Combined Return File 301 trading days immediately prior to the announcement date.<sup>6</sup>
- 2. The sample companies must have return records on the CRSP Daily Combined Return File after the announcement date until the next press release date of the survey.
- 3. The company must have complete data on Standard and Poor's Research Insight.

Across the 9 years of the survey, there were 417 viable announcements from BCWF, 3,460 announcements from MAC, 872 from BCC, and 497 from BCWM. These 5,246 companies<sup>7</sup> constitute the whole sample. The number of firms per year per survey is reported in Panel A of Table 1.

Next, we construct a matched sample on the basis of market capitalization and the book value of common equity-to-market value of common equity (BE/ME) ratio. Barber and Lyon (1997) document the empirical power and test statistics designed to detect long-term abnormal returns using a reference portfolio approach. They argue that matching sample companies to control companies of similar sizes and BE/ME ratio will correct for the possible sources of misspecification and yield well-specified test statistics because it alleviates the new listing, rebalancing, and skewness biases. Following Loughran and Ritter (1995), we do not match the sample by market capitalization and industry for two reasons: first, our matching method will minimize possible industry misclassification; and

<sup>&</sup>lt;sup>5</sup> We use 2000 as the starting point of our sample period as it represents the first year in which all four surveys are conducted.

 $<sup>^{6}</sup>$  We use trading days (-301, -46) to estimate the market model parameters. Thus, the estimation length for this market model is a 255 day trading year.

<sup>&</sup>lt;sup>7</sup> For a certain year, a company could be listed in more than two surveys. This situation will be examined in the later sections.

Table 1 Descriptive statistics for the who	ole sample, ma	ttched sam	ple, and each	individual su	rvey sample					
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2000–2008
Panel A: Number of firm years for the wh	ole sample an	d each ind	ividual survey	sample						
Whole sample	605	625	646	679	686	676	443	442	444	5,246
Best companies to work for	52	50	48	53	48	48	41	40	37	417
Most admired companies	401	421	439	475	486	477	249	252	260	3,460
Best corporate citizens	96	95	98	94	95	66	66	100	96	872
Best companies for working mothers	56	59	61	57	57	52	54	50	51	497
Variable	Mean	SI	0	Percentile						
				Min	25		50	75		Max
Panel B: Descriptive statistics for the who	ole sample, ma	tched sam	ple and each	individual sui	vey sample					
Market capitalization (millions)										
Whole sample	30,194	54	1,487	13	2,905	10	9,713	30,220	0	508,329
Matched sample	27,049	42	.,586	13	2,892	2	9,720	30,541	_	348,034
Best companies to work for	41,133	67	,891	17	2,898	~	12,455	50,896		460,768
Matched sample	34,224	48	,831	17	2,785	10	11,739	49,100	0	348,034
Most admired companies	23,914	47	,925	0	2,647	7	7,791	21,694	-	508,329
Matched sample	21,673	37	',213	13	2,639	•	7,757	21,446		348,034
Best corporate citizens	27,846	5(	,451	58	2,47(	0	9,199	26,119	•	467,093
Matched sample	24,899	35	,279	61	2,405	10	9,210	26,070	0	321,147
Best companies for working mothers	68,398	71	,802	217	17,993	~	45,235	91,957	7	467,093
Matched sample	61,841	57	,604	214	17,879	•	45,510	89,560	0	348,034
BE/ME ratio										
Whole sample	0.449	2	0.4287	0.0012	C	0.2119	0.3604		).5621	9.2593
Matched sample	0.450	9	0.4262	0.0093	0	0.2201	0.3688	0	).5622	9.5990
Best companies to work for	0.287	8	0.2296	0.0124	0	0.1569	0.2386	0	).3641	2.7100

Variable	Mean	SD	Percentile				
			Min	25	50	75	Max
Matched sample	0.2938	0.2215	0.0095	0.1661	0.2458	0.3716	2.6838
Most admired companies	0.5016	0.4855	0.0012	0.2475	0.4053	0.6119	9.2593
Matched sample	0.5016	0.4846	0.0093	0.2540	0.4072	0.6107	9.5990
Best corporate citizens	0.3483	0.2546	0.0043	0.1694	0.2936	0.4719	2.7697
Matched sample	0.3507	0.2496	0.0095	0.1775	0.2991	0.4681	2.6595
Best companies for working mothers	0.3992	0.2876	0.0043	0.1917	0.3287	0.5412	1.7129
Matched sample	0.4047	0.2773	0.0095	0.2072	0.3563	0.5347	1.6595
Panel A shows the number of firm years f	or the whole sample	e and each individ	ual survey samp	le. Panel B shows the	e descriptive statis	stics for the whole	sample, matched

sample, and each individual survey sample. We calculate the previous year-end market capitalization and BE/ME ratio of all stocks which has available data from Research Insight for each year. We define market value of common equity (ME) as the previous year end share price times the number of shares outstanding. We define the BE/ME ratio as the book value of common equity from Research Insight, divided by the year-end market value of common equity of the previous year. We delete companies with negative book to common equity ratios second, suitable industry matches are not always possible due to the limited number of available companies within the industry that match up comparatively to sample companies.

We calculate the previous year-end market capitalization and BE/ME ratio of all stocks, which have available data from Research Insight for each year. We define the market value of common equity (ME) as the previous year-end share price times the number of shares outstanding. We define the BE/ME ratio as the book value of common equity from Research Insight, divided by the year-end market value of common equity of the previous year. We delete companies with negative book-to-common-equity ratios. Our potential universe of matching companies consists of all remaining stocks that are not in our whole sample. In order to derive the best possible match for each firm in our whole sample, we calculate the following matching score (MS) for each sample stock against each of the stocks in the matching universe:

$$MS = \left[\frac{X_1^B - X_1^M}{(X_1^B + X_1^M)/2}\right]^2 + \left[\frac{X_2^B - X_2^M}{(X_2^B + X_2^M)/2}\right]^2 \tag{1}$$

where:  $X_1$ , represents the first matching characteristics: market capitalization;  $X_2$ , represents the second matching characteristics: BE/ME ratio; B, refers to the whole sample; M, refers to the matching universe.

Then, for each stock in whole sample, we select the stock from the matching universe with the smallest MS. We repeat the same procedure for each sample year in our study to create the matched sample.

The characteristics of our whole sample, the matched sample, and each individual survey sample are presented in Panel B of Table 1. The table shows that the whole sample (and also each individual survey sample) and matched sample are very similar in market capitalizations and the BE/ME ratio. Comparing the four surveys, on average the BCWM sample has the largest market capitalization, while the MAC sample has the highest BE/ME ratio. The MAC sample has the smallest market capitalization on average, while BCWF sample has the lowest BE/ME ratio.

#### 4 Stock performance of the four survey samples

In this section, we examine the announcement effect of being included on any of the four survey list. Our tests are conducted in two parts. First, in Sect. 4.1 we examine the short-run market impact for these samples using an event study. Then we examine the long-run stock performance using methods described in Sect. 4.2.

## 4.1 Short-run market impacts

Consistent with previous research, our first hypothesis is that firms will exhibit a positive market reaction to the announcement of inclusion in any of these four surveys. This hypothesis is consistent with the market's perception that the share prices of these companies warrant an upward re-evaluation when the news is released. This scenario would support the theory that the positive benefits accruing to the firm and thus to the shareholders would outweigh whatever the costs may be incurred in establishing this enhanced reputation. Alternatively, the market may not respond to the announcement, which would indicate that either the market does not incrementally value the information contained in the survey or that the "news" contained in the survey is already fully valued.

Although each survey has a well-defined publication date or release date, it is possible that some companies may be notified in advance of their inclusion in the list and leak that information to the press or their shareholders a few days prior to this event date, which would argue for a price run-up leading up to the event date. It is also possible that word could spread further after the press release as companies issue their own press releases touting their inclusion on the list. Therefore, identifying a specific date for a market reaction is somewhat problematic. Our study is not unique in this regard; we use a process similar to Filbeck and Preece (2003) in order to establish an appropriate event window. To check for possible information leakage prior to the press release date, we conduct a search on major newspapers (e.g., The Wall Street Journal and The New York Times) and Lexis/ Nexis. If a newswire has a press release prior to the news release date from any of the annual surveys, the earlier date becomes the event date. For example, the 100 BCWF list of year 2008 was released in the February 4, 2008, issue of *Fortune* magazine, while the news that Scottrade was named to the list for the first time was announced by Business Wire as early as January 22, 2008. Other news releases for the companies in the list spanned over the time period from January 22, 2008, until 2 weeks after the *Fortune* issue date (e.g., Paychecks Inc. announced its inclusion on the list on February 18 by Business & Finance *Week*). If a company's news release follows the official release of the survey, the survey release date serves as the event date. Depending on the survey year, the official release date of the surveys of BCWF and MAC are usually 2-3 weeks before the publication date of Fortune Magazine.

Standard event methodology is followed as outlined in Mikkelson and Partch (1985). We test the share price response to the release of this survey beginning 5 days prior to the event date by calculating daily abnormal returns (ARs) and cumulative abnormal returns (CARs) over our event window (days -5 to +5). Expected returns are determined during the interval (-5, 5) based on the estimates of the parameters calculated for the trading day period (-301, -46) using the market model and tested based on the work of Patell (1976).<sup>8</sup> Table 2 reports the results of the event study for the whole sample and each individual survey sample. Panel A shows the abnormal returns around the event date, and Panel B shows the CARs.

The results show a positive cumulative abnormal return of 0.28 % (significant at 1.0 % level) for the event window (-5, 5) of MAC sample, and significantly positive cumulative returns (significant at 1.0 % level) for both the event window (1, 5) and the entire event period (-5, 5) for BCC sample and the BCWM. For the BCWF sample stocks, we observe a statistically significant abnormal return of 0.32 % (significant at 5.0 % level) on the event date, although not for the event window or entire event period. Combining the four surveys, we observe a positive cumulative return of 0.48 % (significant at 1.0 % level) over the entire event period of (-5, 5) from the whole sample, indicating that overall these surveys bring new positive information which has not been reflected in the stock prices.

The Best Companies to Work For is the first ranking released each calendar year (usually in January), followed by the Most Admired Companies (usually in February), then the Best Corporate Citizens (usually in March), and finally the Best Companies for Working Mothers (usually in September). According to these event dates, three of the four surveys have press

<sup>&</sup>lt;sup>8</sup> Due to the close proximity of announcement dates occurring within a given year across the four surveys, we consider a variety of parameter estimation periods. Such variation will allow us to assess whether our results are robust given biases that may exist when parameter estimates for one event window for a given survey are included in the event window of another survey release. No material differences exist in results and are available upon request.

Day	Whole $(n = 5, $	sample 246)	Best co to work (n = 4)	ompanies c for 17)	Most ac compar $(n = 3,$	dmired lies 460)	Best co citizens (n = 87)	rporate 72)	Best co for wor mothers (n = 49)	mpanies king 97)
	AR	Z-stat	AR	Z-stat	AR	Z-stat	AR	Z-stat	AR	Z-stat
Pane	l A. Abno	ormal return	ıs (%) aı	ound event	date					
-5	0.06	1.03	-0.30	-3.59**	0.14	2.56**	-0.11	-1.98*	0.03	2.50**
-4	0.19	5.05**	0.05	1.50	0.23	5.55**	0.23	0.80	-0.06	-0.66
-3	-0.18	-5.07**	-0.23	-0.91	-0.16	-3.69**	-0.25	-2.72**	-0.21	-2.31*
-2	-0.04	-2.31*	0.18	1.62	-0.18	-5.74**	0.33	5.53**	0.13	-1.14
-1	-0.09	-0.80	-0.10	-0.33	-0.05	1.02	-0.25	-1.26	-0.11	-3.32**
0	0.31	11.25**	0.32	2.18*	0.38	11.59**	0.03	1.75*	0.23	1.64
1	-0.09	-2.87**	0.19	0.87	-0.23	-4.21**	0.10	-0.66	0.35	1.87*
2	0.11	3.18**	-0.10	-1.68*	0.08	1.61	0.27	4.05**	0.22	2.27*
3	0.04	2.35**	0.05	-1.42	-0.06	-0.42	0.39	5.93**	0.16	2.21*
4	0.13	2.24*	0.19	0.35	0.19	3.07**	-0.04	-1.33	-0.04	0.61
5	0.05	2.10*	-0.35	-3.73**	-0.07	-1.33	0.44	5.05**	0.53	7.06**
Interv	val C.	AR Z-stat	CA	R Z-stat	CA	R Z-stat	CAR	Z-stat	CAR	Z-stat
Pane	l B. Cum	ulative abn	ormal re	turns (%) ar	round eve	ent date				
(-5,	-2) 0.	03 -0.65	-0	.29 -0.69	0.	04 -0.66	0.2	0.82	-0.11	-0.8
(-1,	0) 0.	21 7.39	** 0	.22 1.31	0.	33 8.91*	** -0.2	0.35	0.12	-1.19
(1, 5)	0.	25 3.13	** -0	.02 -2.51	** -0.	09 -0.58	1.1	6 5.83**	1.21	6.27**
(-5,	5) 0.	48 4.87	** -0	.09 -1.55	0.	28 3.01*	** 1.1	5 4.57**	1.22	3.24**

Table 2 Results of the event study for the whole sample and each individual survey

We test the share price response to the release of this survey beginning 5 days prior to the event date by calculating abnormal returns (ARs) and cumulative abnormal returns (CARs). Expected returns are estimated during the interval (-5, 5) and estimates of the parameters are calculated for the trading day period (-301, -46) using the market model

\*\*, \* Indicate statistical significance at 0.01 and 0.05 level, respectively

release dates in close proximity. Moreover, some companies may be listed in more than one survey during the year. For example, Microsoft was named as one of the BCWF, MAC, and the BCWM for the year 2008. As a result, the announcement effects of the four surveys are intertwined with each other, making it more challenging to differentiate the effects from the individual surveys. Also, some companies repeat as "winners" across time for individual surveys. For example, Alcon, Inc., was recognized as one of the BCWF by Fortune magazine for the 10th consecutive year in 2008. It is possible that immediately prior to the press release dates of the BCWF survey, investors have already anticipated the inclusion of Alcon, Inc., on the BCWF list. The inclusion of such companies may not contain incremental information to the market, and therefore the market reaction may be muted for these stocks. Conversely, if a company is selected by one of the lists for the first time, this might bring new information to the market spurring a positive reaction. To examine these issues, we construct appropriate sub-samples from our overall sample.

First, we explore whether there are differential announcement effects to a survey's release for newly listed versus repeat companies. Also, within a given year, we explore whether winners selected across different surveys bring additional information to the

market with each consecutive survey release. To address these issues, we construct three groups of sub-samples (which constitute 16 sub-samples) each year:

- The "new listing" sample contains only companies that were not previously listed in the *same* survey in the previous year. For the BCC sample, since 2000 was the first year of the survey, we include all stocks included in the 2000 listing.<sup>9</sup> For the other three surveys, we include only companies that were not listed in the same survey in the previous year.
- The "repeat winners" sample contains stocks that are listed in the same survey for two or more consecutive years.
- The "consecutive events" sample contains stocks that are listed in more than two different but consecutively released surveys during 1 year window. The "consecutive 2 events" include consecutive winners from BCWF to MAC, from MAC to BCC, from BCC to BCWM, from BCWM to BCWF. The "consecutive 3 events" sample contains stocks that are listed in the three consecutive events during 1 year window. The "consecutive 4 events" sample contains stocks that are listed in the four consecutive surveys during 1 year window.

Descriptive statistics for these sub-samples are reported in Table 3. We report the event study results for our sub-samples in Table 4.<sup>10</sup> The new listing sample displays positive abnormal returns for the event window exhibits statistically significant (at the 1.0 % level) cumulative abnormal return of 2.03 % during the entire event period (-5, 5). However, this result was driven by the CARs of 1.46 and 2.94 % from the MAC and BCC survey subsamples, respectively. The firms added to the BCWF and BCWM surveys do not show statistically significant positive abnormal returns during the event window and event period.

We also observe statistically significant results with the CARs for our repeat winner sample across the four surveys. This result is driven by the repeat winners of MAC and BCWM surveys, which show statistically significant positive CARs for the overall (-5, 5) event window, while repeat winners of BCWF and BCC do not. Comparing the new listing sample and the repeat winners sample, we find that the new listing sample shows higher CARs on average than the repeat winners sample.<sup>11</sup> This finding is true for the overall new listing sample and the new listing sample for each individual survey.

Finally, the market reacts positively to consecutive winners of MAC and the BCC and consecutive winners of BCC and BCWM, but not to the other two "consecutive 2 events" samples. We observe a positive CAR of 1.26 % (significant at 1.0 % level) over the event window of (-5, 5) for the "consecutive 3 events" sample, although the results are not significant for the "consecutive 4 events" sample. This may indicate that the BCC sample is more distinct from the others and, as such, the inclusion of a firm in the BCC coupled with its inclusion in another survey may reveal more about a company's commitment to management excellence than its inclusion in two more similar surveys such as BCWF and BCWM.

<sup>&</sup>lt;sup>9</sup> The 2,000 new subsample for BCC includes all firms in that survey, as it was the first BCC list. We redo our analysis using data across the four samples for 2001–2008. This variation removes the potential bias introduced from the inclusion of an initial year list for BCC as opposed to a sample exclusively composed on companies not previously listed in a previous version of the list. The results are not materially different and are available upon request.

<sup>&</sup>lt;sup>10</sup> We report only cumulative abnormal returns (CARs) surrounding the event dates for brevity. Results on the abnormal returns (ARs) surrounding the event dates are available upon request.

<sup>&</sup>lt;sup>11</sup> The difference is statistically significant for the overall sample and the sample for BCC.

Table 3 Descriptive statistics for the sub-s	amples							
Variable	Number of firm	Mean	SD	Percentile				
	years			Min	25	50	75	Max
Market capitalization (millions)								
New listing sample	781	20,552	45,656	13	1,815	5,423	16,377	467,093
Best companies to work for	58	28,410	47,298	263	2,276	8,075	29,629	253,896
Most admired companies	322	8,276	14,981	13	1,233	3,225	7,983	121,565
Best corporate citizens	355	24,571	50,196	58	2,286	7,604	21,655	460,768
Best companies for working mothers	46	66,937	92,889	217	11,174	28,895	80,168	467,093
Repeat winners	3,637	32,098	55,691	15	3,268	11,032	33,267	504,240
Best companies to work for	280	39,181	65,752	30	2,895	12,381	48,027	422,640
Most admired companies	2,570	25,934	49,997	15	2,983	8,866	24,482	504,240
Best corporate citizens	427	29,963	49,333	80	2,142	10,113	32,119	467,093
Best companies for working mothers	360	72,712	72,594	450	20,110	48,973	98,717	386,402
Consecutive events								
From best companies to most admired	211	65,174	81,262	975	12,307	33,267	79,649	460,768
From most admired to corporate citizens	364	43,695	63,421	787	8,053	16,908	53,944	467,093
From corporate citizens to work moms	112	70,505	72,282	1,824	17,518	50,896	102,373	467,093
From working moms to best companies	96	77,805	73,770	676	18,473	61,691	116,159	310,219
Consecutive 3 events	357	83,567	76,855	1,293	22,230	63,622	128,235	467,093
Consecutive 4 events	189	91,189	63,729	1,957	42,300	79,262	133,636	293,137
BE/ME ratio								
New listing sample	781	0.4683	0.5425	0.0043	0.2023	0.3595	0.5703	9.2593
Best companies to work for	58	0.2869	0.2515	0.0131	0.1531	0.2256	0.3373	1.7088
Most admired companies	322	0.6280	0.7502	0.0043	0.2755	0.4914	0.7033	9.2593
Best corporate citizens	355	0.3671	0.2722	0.0124	0.1809	0.3241	0.4966	2.7697
Best companies for working mothers	46	0.3525	0.3053	0.0043	0.1557	0.2541	0.4815	1.3192

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Variable	Number of firm	Mean	SD	Percentile					
	years			Min	25	50	75	Max	
Repeat winners	3,637	0.4502	0.4175	0.0012	0.2176	0.3665	0.50	531 7.89	950
Best companies to work for	280	0.2878	0.1843	0.0374	0.1695	0.2389	0.37	704 1.5	128
Most admired companies	2,570	0.4935	0.4629	0.0012	0.2509	0.4040	0.6(	32 7.89	950
Best corporate citizens	427	0.3286	0.2430	0.0043	0.1539	0.2638	0.45	507 2.2	573
Best companies for working mothers	360	0.4122	0.2896	0.0131	0.1986	0.3447	$0.5^{4}$	1.70	053
Consecutive events									
From best companies to most admired	211	0.2638	0.2019	0.0131	0.1376	0.2140	$0.3^{4}$	1.70	088
From most admired to corporate citizens	364	0.3129	0.2578	0.0043	0.1360	0.2455	0.4(	93 2.2	573
From corporate citizens to working moms	112	0.2778	0.1695	0.0043	0.1618	0.2331	0.36	503 0.85	511
From working moms to best companies	96	0.2795	0.1496	0.0131	0.1762	0.2412	0.37	745 0.80	014
Consecutive 3 events	357	0.2472	0.1490	0.0043	0.1445	0.2129	0.3(	0.85 0.85	511
Consecutive 4 events	189	0.2219	0.0955	0.0503	0.1604	0.2106	0.27	720 0.60	049
The "new listing" sample contains only con was the first year of the survey, we include	npanies that were n all stocks included	ot previously lis in the 2000 list	sted in the same ing. For the oth	survey in the ler three survey	previous year. s, we include	For Best Corpo only companies	orate Citizens that were no	sample, since 20 of listed in the sa	000 ame

survey in the previous year. The "repeat winners" sample contains stocks that are listed in the same survey for two consecutive years. The "consecutive events" sample contains stocks that are listed in more than two consecutive events. The "consecutive 3 events" sample contains stocks that are listed in three consecutive events. The

"consecutive 4 events" sample contains stocks that are listed in the four consecutive events

Table 4	Results of	the event stu	ıdy for di	fferent sub-sar	nples								
Interval	New list $(n = 78)$	ting sample 1)	New lis compar	sting sample— iies to work for	best $r (n = 58)$	New listin admired co	g sample—most ompanies (n = 32	New 1 2) corpor	isting sample- ate citizens (n	-best = 355)	New listi companie (n = 46)	ng sample—be s for working	st mothers
	CAR	Z-stat	CAR	Z-stá	ıt	CAR	Z-stat	CAR	Z-st	at	CAR	Z-stat	
(-5, -2) (-1, 0) (1, 5) (-5, 5)	0.54 0.14 1.35 2.03	2.66** 1.18 6.07** 6.20**	$-1.08 \\ 0.66 \\ 0.46 \\ 0.05 \\ 0.05$	-1.1 1.2 -0.7 -0.6	4 4 6 5	0.57 0.62 0.26 1.46	1.97* 3.35** 0.39 2.88**	0.72 -0.40 2.62 2.94	2.5 -2.0 8.6	53** )1* \$1**	0.91 0.34 0.27 1.52	0.00 0.20 0.90 0.67	
Interval	2235  0 	epeat inners i = 3,637) AR Z	-stat	Repeat winners companie work for ( CAR	best s to $(n = 280)$ $Z$ -stal		Repeat winnersmost admired compar (n = 2,570) CAR	nies Z-stat	Repeat winners corpora (n = 42 CAR	best te citizens 27) Z-st	jat l	Repeat winners—bes companies fo working motl (n = 360) CAR	t r ners Z-stat
$\begin{array}{c} (-5, -2) \\ (-1, 0) \\ (1, 5) \\ (-5, 5) \end{array}$	0 0 0 0	10 0 29 8 41 5. 79 7.	.23 .23** .21** .16**	0.03 0.16 -0.33 -0.14	0.4 0.8 -3.10 -1.5	5 5 **	0.18 0.43 0.39 1.00	0.58 9.73** 4.70** 7.67**	-0.22 -0.20 0.18 -0.24	-1. 0.	44 12 12 12	-0.04 -0.09 1.37 1.24	0.35 -1.80* 6.36** 3.73**
Interval	$\begin{array}{c} \text{Cons}\\ \text{even}\\ \text{best}\\ \text{to }\\ \text{m}\\ \text{to }\\ \text{m}\\ \text{CAR} \end{array}$	ts—from ts—from companies ost admired 211) Z-stat		Consecutive 2 svents—from nost admired o corporate sitizens (n = 3 .AR Z	64) stat	Consecutiv events—frv corporate c to working (n = 112) CAR	ve 2 citizens ș mothers Z-stat	Consecutive events—frc working me to best corr (n = 96) CAR	e 2 um others ppanies Z-stat	Consecutiv winners— consecutiv events (n = CAR	ve 3 e = 357) Z-stat	Consecutive winners	ve 4 e = 189) Z-stat
(-5, -2) (-1, 0)	-0.3 0.4	9 –1.53 0 2.92	2**	0.54 1 -0.24 0	.55 .31	0.40 1.23	-0.38 2.15*	0.45 0.28	1.59 0.93	0.40 0.02	1.22 0.61	-0.09 0.30	-0.45 1.71*

Interval	Consecut events—f best com to most a	ive 2 rom anies dmired	Consecut events—f most adm to corpor-	ive 2 from nired ate	Consecuti events—f corporate to workin	ve 2 rom citizens g mothers	Consecut events—f working 1 to best co	ve 2 rom nothers mpanies	Consecu winners- consecut events (r	iive 3 ive 1 = 357)	Consecuti winners consecutiv events (n	ve 4 re = 189)
	(n = 211) CAR	Z-stat	CAR CAR	n = 304) Z-stat	(n = 112) CAR	Z-stat	(n = 96) CAR	Z-stat	CAR	Z-stat	CAR	Z-stat
(1, 5)	0.38	1.64	1.42	5.15**	0.92	1.77*	-0.79	-3.41**	0.84	2.96**	0.23	0.01
(-5, 5)	0.39	1.43	1.72	4.54**	2.55	1.88*	-0.06	-0.95	1.26	$3.00^{**}$	0.44	0.46

from Most Admired Companies to Best Corporate Citizens, from Best Corporate Citizens to Best Companies for Working Mothers, from Best Companies for Working Mothers, from Best Companies for Working Mothers to Best Companies to Work for. The "consecutive 3 events" sample contains stocks that are listed in the three consecutive events. The "consecutive 4 events" sample the first year of the survey, we include all stocks included in the 2000 listing. For the other three surveys, we include only companies that were not listed in the same survey in the previous year. The "repeat winners" sample contains stocks that are listed in the same survey for 2 consecutive years. The "consecutive events" sample contains stocks that are listed in more than two consecutive events. The "consecutive 2 events" include consecutive winners from Best Companies to Work For to Most Admired Companies. contains stocks that are listed in the four consecutive events

\*\*, \* Indicate statistical significance at 0.01 and 0.05 level, respectively

Overall, our event study results indicate that the market reacts favorably on the days surrounding the press release date for selected companies when the company initially appears on the MAC and BCC rankings. Repeat winners on these lists also experience a significant, although smaller, price effect during the event window. This is consistent with the supposition that new information is being priced when a firm is initially listed on the survey, whereas subsequent listings add relatively less information about the companies' future prospects. This is also true for the consecutive winners for different listings. We find qualified support for incremental information effects across subsequent survey releases, however, being selected across all four surveys consecutively adds little new information as we observe no significant price effect for these companies.

#### 4.2 Long-term stock return performance

In this section, we examine the long-term return performance of the whole sample after each event date. Numerous researchers (e.g., Barber and Lyon 1997; Fama 1998; Loughran and Ritter 2000) have shown that the magnitude, and sometimes even the sign, of the long-run abnormal returns are sensitive to alternative measurement methodologies. To determine the sensitivity of our test results, we examine the long-term return performance of our sample stocks using several approaches.

We initially test the long-run stock performance of the sample stocks by forming a portfolio consisting of the top companies from each survey on their respective release (or "event") date in 2000. This portfolio is "held" until the event date for the following year, at which point, the portfolio is rebalanced to reflect the inclusion of newly listed companies and the elimination of companies not appearing on the subsequent year's listing. The same process is used for subsequent holding periods. We repeat this procedure for each subsequent holding period and for each survey.

We use the matched sample (matched by market capitalization and BE/ME ratio) as a benchmark portfolio to test the abnormal returns of the sample stocks. We employ the Fama and French (1993) 3-factor and 4-factor models to test the abnormal returns. Statman et al. (2008) conclude that the 4-factor model is effective in modeling expected returns and affect: in the latter case, because of the capitalization, style, and momentum factors that are a part of the model. Then, we rerun Fama–French 3-factor model using Fama and MacBeth (1973) method and Peterson (2009) method to control for correlated standard errors. Next, we calculate buy and hold abnormal returns (BHARs) over the holding period until the next event date. Our method and test results are discussed in the following section.

# 4.2.1 Fama-French 3-factor and 4-factor models

The 3-factor model is applied by regressing the post-event daily excess returns for each sample stock i on a market factor, a size factor, and a book-to-market factor. The 4-factor model is constructed by integrating the Fama–French 3-factor model with an additional factor capturing the 1-year momentum anomaly reported by Jegadeesh and Titman (1993). Specifically, the 3- and 4-factor models are defined respectively as:

$$R_{it} - R_{ft} = a + b(R_{mt} - R_{ft}) + sSMB_t + hHML_t + e_{it}$$

$$\tag{2}$$

$$R_{it} - R_{ft} = a + b(R_{mt} - R_{ft}) + sSMB_t + hHML_t + mUMD_t + e_{it}$$
(3)

where  $R_{it}$ , the return on each sample stock;  $R_{fi}$ , the return on 1-month Treasury bills;  $R_{mt}$ , the return on a value-weighted market index;  $SMB_t$ , the return on a value-weighted

portfolio of small stocks less the return on a value-weighted portfolio of big stocks;  $HML_t$ , the return on a valued-weighted portfolio of high book-to-market stocks less the return on a value-weighted portfolio of low book-to-market stocks;  $UMD_t$ , the return on the two high prior return portfolios less the returns on the two prior low return portfolios.

We run stock-by-stock regressions for each sample stock and test the t-statistics for the regression intercepts. A positive intercept for these regressions, *a*, indicates that after controlling for the market, size, book-to-market ratio (and momentum) factors in returns, the sample portfolio has performed better than expected.

Table 5 shows the results of the two regressions for the whole sample, each individual survey sample, and each of our sub-samples. We report only the regression intercepts and their respective *t*-statistics for brevity. The results show that in all cases except for the new listing Working Mothers subsample the regression intercepts are positive. These results are similar to our event study results that the whole sample, and especially for the new listing subsample, have superior returns, in this case, after controlling for the market, size, the book-to-market ratio, and momentum factors. Some of the repeat winners and consecutive winners also show significantly positive alphas, although to a lesser degree compared with the new listing subsample. Generally, the subsamples involving BCWF and BCWM firms tend to show less significance.

# 4.2.2 Fama–MacBeth model and Peterson (2009) model

Our results in Table 5 are based on the mean regression coefficients and t-statistics of stock-by-stock regression. It is well known that for panel data, the residuals may be correlated across firms or across time, and OLS standard errors may be biased. To further test whether our results from Table 5 are still robust after controlling for biased OLS standard errors, we employ Fama and MacBeth (1973) method and Peterson (2009) method. For the Fama–MacBeth method, we first regress post-event daily excess returns for each sample stock i on a market factor, a size factor, and a book-to-market factor. Then for each trading day t in our sample, we run cross-sectional regressions using the regression coefficients from the first regression. Finally, we calculate the mean coefficients of the second regression and report the t-statistics.

To address two sources (i.e., firm and time) of correlation of standard errors, we employ Peterson (2009) method. Specifically, we estimate the following variance–covariance matrix:

$$V_{Firm\&Time} = V_{Firm} + V_{Time} - V_{White}, \tag{4}$$

where: V, variance–covariance matrix clustered by Firm (Time, or both);  $V_{White}$ , variance– covariance matrix of White standard errors; which combines the standard errors clustered by firm with the standard errors clustered by time.

Table 6 shows the results of the two regressions for the whole sample, each individual survey sample, and each of our sub-samples. We report only the regression intercepts and their respective *t*-statistics for brevity. The results show that in all cases except for the consecutive event from the Best Companies to the Most Admired subsample, the regression intercepts are positive. These results are similar to and re-enforce our event study results. In Table 6, the whole sample, and especially for the new listing subsample, have superior returns, after controlling for the possible correlations of standard errors.

# 4.2.3 Buy-and-hold abnormal returns (BHARs)

Long-term performance is also assessed by using buy-and-hold abnormal returns (BHARs). Building on the work of Ritter (1991), Barber and Lyon (1997) find that BHARs

sub-samples				
	FF 3-factor	model	FF 4-factor	model
	Mean coefficient	t-stat	Mean coefficient	t-stat
Panel A: Regression intercepts for whole sample and	different listing	5		
Whole sample $(n = 5,246)$	0.0204	6.84**	0.0195	6.71**
Best companies to work for $(n = 417)$	0.0257	3.36**	0.0259	3.28**
Most admired companies $(n = 3,460)$	0.0184	4.47**	0.0164	4.15**
Best corporate citizens ( $n = 872$ )	0.0253	5.87**	0.0260	5.55**
Best companies for working mothers $(n = 497)$	0.0218	2.45*	0.0245	2.84**
Panel B: Regression intercepts for different subsample	les			
New listing sample $(n = 781)$	0.0298	5.63**	0.0273	5.29**
Best companies to work for $(n = 58)$	0.0299	1.69	0.0232	1.30
Most admired companies $(n = 322)$	0.0219	2.46*	0.0192	2.21*
Best corporate citizens $(n = 355)$	0.0428	5.96**	0.0407	5.77**
Best companies for working mothers $(n = 46)$	-0.0148	-0.62	-0.0128	-0.59
Repeat winners $(n = 3,637)$	0.0160	4.13**	0.0158	4.18**
Best companies to work for $(n = 280)$	0.0136	1.53	0.0091	0.95
Most admired companies $(n = 2,570)$	0.0150	2.95**	0.0140	2.88**
Best corporate citizens ( $n = 427$ )	0.0143	2.43*	0.0177	2.50*
Best companies for working mothers $(n = 360)$	0.0268	2.49*	0.0309	2.96**
Consecutive events				
From Best Companies to Most Admired $(n = 211)$	0.0183	2.00*	0.0192	2.09*

 Table 5
 Regression results of the Fama–French three- and four-factor models for the whole sample and sub-samples

The three-factor model is applied by regressing the post-event daily excess returns for each sample firm i on the market return factor, a size factor, and a book-to-market factor. The four-factor model is constructed by integrating the Fama and French (1993) three-factor model with an additional factor capturing the 1-year momentum anomaly reported by Jegadeesh and Titman (1993). We run stock-by-stock regressions and report the mean regression coefficients of the intercepts and its significance using t-statistics

0.0219

0.0210

0.0072

0.0219

0.0074

3.42\*\*

1.55

0.92

1.27

3.29\*\*

0.0234

0.0209

0.0088

0.0225

0.0084

2.95\*\*

1.75

1.15

1.43

3.43\*\*

\*\*, \* Indicate statistical significance at 0.01 and 0.05 level, respectively

From Most Admired to Corporate Citizens (n = 364)

From Corporate Citizens to Working Moms (n = 112)

From Working Moms to Best Companies (n = 96)

Consecutive 3 events (n = 357)

Consecutive 4 events (n = 189)

can be used to address several issues regarding portfolio performance. A BHAR is the difference between the return on a buy-and-hold investment in a company of interest less the return on a buy-and-hold investment in a similar asset/portfolio. Barber and Lyon note that BHARs can overcome several biases inherent in estimating long-term CARs. Specifically, BHAR is calculated as:

$$BHAR_{iT} = \prod_{t=1}^{T} [1 + R_{it}] - \prod_{t=1}^{T} [1 + E(R_{it})], \qquad (5)$$

BHAR<sub>*iT*</sub>, as defined in Barber and Lyon (1997), represents the buy-and-hold investment in the sample firm less the return on a buy-and-hold investment in an asset/portfolio with an

	Fama and Ma model	cBeth (1973)	Peterson (200	9) model
	Mean coefficient	t-stat	Mean coefficient	t-stat
Panel A: Regression intercepts for whole sample	and different l	istings		
Whole sample $(n = 5,246)$	0.0473	2.73***	0.0209	4.56***
Best companies to work for $(n = 417)$	0.0516	1.68*	0.0181	2.10**
Most admired companies $(n = 3,460)$	0.0395	2.17**	0.0232	4.59***
Best coporate citizens ( $n = 872$ )	0.0489	2.36**	0.0194	3.01***
Best companies for working mothers $(n = 497)$	0.0138	0.49	0.0040	0.42
Panel B: Regression intercepts for different subs	amples			
New listing sample $(n = 781)$	0.0452	1.83*	0.0276	3.34***
Best companies to work for $(n = 58)$	0.2150	1.26	0.0127	0.64
Most admired companies $(n = 322)$	0.0115	0.34	0.0194	1.57
Best corporate citizens $(n = 355)$	0.0650	2.04**	0.0325	3.06***
Best companies for working mothers $(n = 46)$	0.0363	0.68	0.0302	1.67*
Repeat winners $(n = 3,637)$	0.0409	2.12**	0.0161	3.21***
Best companies to work for $(n = 280)$	0.0126	0.36	0.0140	1.62
Most admired companies $(n = 2,570)$	0.0371	1.82*	0.0194	3.65***
Best corporate citizens $(n = 427)$	0.0408	1.39	0.0049	0.60
Best companies for working mothers $(n = 360)$	0.0141	0.45	0.0057	0.45
Consecutive events				
From best companies to most admired $(n = 211)$	-0.0621	-1.23	0.0141	1.48
From most admired to corporate citizens $(n = 364)$	0.0348	1.40	0.0202	2.42**
From corporate citizens to working moms $(n = 112)$	0.4134	0.66	0.0009	0.06
From working moms to best companies $(n = 96)$	0.0107	0.27	0.0024	0.22
Consecutive 3 events $(n = 357)$	0.0181	0.61	0.0101	1.00
Consecutive 4 events $(n = 189)$	0.0150	0.35	0.0057	0.41

 Table 6
 Regression results of the Fama and MacBeth (1973) model and Peterson (2009) model for the whole sample and sub-samples

The Fama and MacBeth (1973) model is applied by first regressing the post-event daily excess returns for each sample firm i on the market return factor, a size factor, and a book-to-market factor, then running cross-sectional regression for each trading day. Peterson (2009) model is applied by clustering the standard errors in two dimensions (i.e., firm and date)

\*\*\*, \*\*, \* Indicate statistical significance at 0.01, 0.05 and 0.10 level, respectively

appropriate expected return, where  $R_{it}$  = the day t return of stock i in the whole sample;  $E(R_{it})$  = the daily expected return of the sample firm.

Barber and Lyon (1997) argue that by matching sample companies to control companies of similar sizes and BE/ME ratios will correct for the possible sources of misspecification. So, for the calculation of BHAR, we only use our matched sample as our benchmark portfolio. Therefore, in this study, BHAR is measured as the return of buy-and-hold investment of each sample firm less the return of buy-and-hold investment of its matched firm.

We report the results of BHARs in Table 7. BHARs for the whole sample and each individual survey sample appear in Panel A, while Panel B shows the BHARs of different sub-samples. We test the null hypothesis that the mean BHARs (i.e., the differences between buy-and-hold returns of each sample stock and its matched stock) are equal to zero using a parametric test statistic. The t-stat is calculated as the sample mean BHAR<sub>iT</sub> divided by the sample standard deviations of abnormal returns for the sample.

In general, the t-stats from Panel A demonstrate that the MAC and BCC companies outperform their matched samples using the annual buy-and-hold strategy (statistically significant at the 1.0 % level). Consistent with prior results, the BCWF and BCWM companies do not outperform their matched samples.

For the sub-samples comparisons in Panel B of Table 7, while the repeat winner and consecutive winner sub-samples do not yield statistically significant abnormal returns compared with their respective matched samples, the new listing sub-sample yields a statistically significant (at the 1.0 % level) BHAR of 7.7 % compared with the matched sample, driven by the MAC and BCC companies.

Overall, our tests on long-term stock return performance indicate that the new listing samples of the MAC and the BCC provide statistically significant long-term positive abnormal returns, and this conclusion is not sensitive to different test statistics and measurement methods that we employ in this paper. The repeat winners and the consecutive winners sub-samples yield positive, although not always statistically significant, abnormal returns depending on methodology used.

Among the four surveys, the MAC and the BCC listings seem to have more incrementally useful information about the prospects for the companies included in those surveys. In the next section, we will use regression analysis to further test the long-term stock performance of the four listings.

# 5 Which survey has stronger price effect?

Our results so far indicate that companies on the aggregated four surveys outperform their matched firms in the holding period following inclusion on their respective survey. However, one basic question particularly relevant to potential investors that remains partially unanswered is which survey has stronger price effect, i.e., Are some surveys "better" than others? Do firms need to be listed on all four surveys to gain the greatest returns?

To investigate this issue, we employ regression analysis on the company returns and dummy variables representing the companies' inclusion on the various "best of" lists. Specifically, we retrieve the daily returns of all stocks which have available data from both CRSP and Research Insight during our sample period 2000–2008. The number of stocks with available data ranges from 5,397 to 7,278 on an annual basis. Then for each year, we calculate the annual returns for each stock in the dataset. Next, we identify our survey sample stocks and sub-sample stocks from the whole universe of stocks and construct the following dummy variables:

- Best\_Co (Admired, Corporate, Work\_Mom) = 1 if the firm is listed as one of the Best Companies to Work For (Most Admired Companies, Best Corporate Citizens, Best Companies for Working Mothers) during the year; = 0 otherwise.
- Best\_Only (Admired\_Only, Corporate\_Only, Work\_Mom\_Only) = 1 if the firm is listed as one of the Best Companies to Work For (Most Admired Companies, Best

	$\prod \left( 1+R_{it}\right)$	$\prod \left(1 + E(R_{it})\right)$	BHAR	T test
Panel A: Buy and hold abnormal returns (BHARs) for	r whole sample	e and different list	ings	
Whole sample $(n = 5,246)$	1.092	1.063	0.029	3.97**
Best companies to work for $(n = 417)$	1.022	1.024	-0.002	-0.10
Most admired companies $(n = 3,460)$	1.123	1.086	0.037	3.99**
Best coporate citizens ( $n = 872$ )	1.046	0.995	0.051	2.92**
Best companies for working mothers $(n = 497)$	1.016	1.056	-0.040	-1.79
Panel B: Buy and hold abnormal returns (BHARs) for	r sub-samples			
New listing sample $(n = 781)$	1.094	1.018	0.077	3.58**
Best companies to work for $(n = 58)$	0.985	0.960	0.025	0.40
Most admired companies $(n = 322)$	1.165	1.083	0.082	2.35*
Best corporate citizens $(n = 355)$	1.059	0.962	0.097	3.01**
Best companies for working mothers $(n = 46)$	1.008	1.065	-0.057	-0.90
Repeat winners $(n = 3,637)$	1.086	1.081	0.005	0.58
Best companies to work for $(n = 280)$	1.023	1.039	-0.016	-0.61
Most admired companies $(n = 2,570)$	1.107	1.093	0.014	1.38
Best corporate citizens $(n = 427)$	1.041	1.025	0.016	0.74
Best companies for working mothers $(n = 360)$	1.038	1.099	-0.061	-2.32*
Consecutive events				
From best companies to most admired $(n = 211)$	1.028	1.007	0.021	0.85
From most admired to corporate citizens $(n = 364)$	1.046	0.998	0.049	2.18*
From corporate citizens to working moms ( $n = 112$ )	1.058	1.064	-0.006	-0.10
From working moms to best companies $(n = 96)$	0.996	1.050	-0.054	-1.57
Consecutive 3 events ( $n = 357$ )	0.992	1.013	-0.020	-0.84
Consecutive 4 events $(n = 189)$	1.002	1.034	-0.033	-1.24

Table 7 Buy and hold abnormal returns (BHARs) for the whole sample and sub-samples

We test the null hypothesis that the mean BHARs (i.e., the differences between a buy-and-hold returns of the sample and its matched sample) are equal to zero using a parametric test statistic. The t-stat is calculated as the sample mean BHAR<sub>iT</sub> divided by the sample standard deviations of abnormal returns for the sample \*\*, \* Indicate statistical significance at 0.01 and 0.05 level, respectively

Corporate Citizens, Best Companies for Working Mothers) only (but not for other surveys) during that year; = 0 otherwise.

- Win2Events (Win3Events, Win4Events) = 1 if the firm is listed in two (three, four) surveys on an annual cycle; = 0 otherwise.
- New\_Best (New\_Admired, New\_Corporate, New\_Work\_Mom) = 1 if the firm is a new listing on the Best Companies to Work For (Most Admired Companies, Best Corporate Citizens, Best Companies for Working Mothers) during the year; = 0 otherwise.
- New = 1 if the firm is a new listing company for any of the four surveys during the year; = 0 otherwise.
- Repeat\_Best (Repeat\_Admired, Repeat\_Corporate, Repeat\_Work\_Mom) = 1 if the firm is a Repeat winner of Best Companies to Work For (Most Admired Companies, Best Corporate Citizens, Best Companies for Working Mothers) during the year; = 0 otherwise.
- Repeat = 1 if the firm is a Repeat winner for any of the four surveys during the year;
   = 0 otherwise.

The results are reported in Table 8. To control for the size effect and book-to-market effect, we add the log of MVE (log of market capitalization) and BE/ME ratio in each regression. Results from Models 1 and 2 show that the MAC and the BCC surveys have higher annual returns than the other survey stocks after controlling for the size effect and book-to-market effect. Results from Models 3, 4, and 5 show that being listed on two or three surveys during the year still sends the market a positive signal, while appearing on all four listings does not add any additional benefit. Results from Models 6, 7, 8, and 9 show that of the new listing sub-samples, only the new listings of the MAC and BCC surveys yield higher annual returns. Of the repeat winners sub-samples, only repeat winners of the MAC send a positive signal to the market. These results support the earlier findings that the MAC and BCC surveys are the two most relevant to investors.

# 6 Concluding remarks

The focus of this study is whether there are cumulative or interactive effects from being listed on one or more of four popular annual surveys of exceptional firms (*Fortune*'s Best Companies to Work For and Most Admired Companies, *Business Ethics* 100 Best Corporate Citizens, and *Working Mother's* 100 Best Companies for Working Mothers). We investigate whether the information content from being listed on additional rankings may be viewed as incremental information that validates the first ranking or is it viewed as a redundant acknowledgement of what the market had already established.

Our event study results indicate that the market reacts favorably when a firm appears on the MAC and BCC rankings, but less so to the BCWF and the BCWM. Subsequent inclusion on the MAC and BCC surveys produce significant, although smaller, price effects during the event window. In the former case, our results are consistent with most research in the ability to investors to add value to their portfolio by adding selected firms. In the latter case, given its small subscription base, our results support Fang and Peress (2009) assertion that significant return premium are available on stocks with previous little or no media coverage. During a given annual cycle, being listed in two and three consecutive surveys produces statistically significant abnormal returns, but a fourth selection adds little new information.

With respect to longer-term performance, we observe that the new listing samples of the MAC and the BCC provide significant positive abnormal returns, regardless of the method used to analyze performance. The repeat winners and the consecutive winners sub-samples also yield positive abnormal return, although the statistical significance of these returns are dependent on the methodology employed.

Finally, through regression analysis, we determine that (1) the MAC and the BCC survey firms have higher annual returns than those of the other two surveys after controlling for the size effect and book-to-market effect; (2) being listed on two or three surveys during the year yields abnormal returns, while appearing on all four listings does not add additional benefit; (3) only the MAC and BCC surveys yield higher annual returns upon first-time inclusion; and (4) only reselection for inclusion for subsequent MAC surveys garners incremental value.

Our paper adds value to the existing literature by synthesizing the effects of financial surveys of noteworthy companies and helping investors determine which survey is more deserving of attention as they determine appropriate security selection within their portfolio. On a practical level, our results suggest that investors looking to purchase stocks should eagerly await the announcement of the lists of the Most Admired Companies and

Table 8 Result	ts of regression ana	ılysis					
	Intercept	Best_Co	Admired	Corporate	Work_Mom	Log of MVE	<b>BE/ME</b>
Model 1	0.3891	0.0362	0.1596	0.0444	0.0434	-0.0558	0.0752
	42.04**	1.07	12.51**	$1.94^{*}$	1.40	-38.59**	26.89**
	Intercept	Best_Only	Admired_Only	Corporate_Only	Work_Mom_Only	Log of MVE	BE/ME
Model 2	0.3780	0.1049	0.1677	0.1281	0.1660	-0.0536	0.0757
	$41.65^{**}$	1.83	12.43**	3.79**	2.70**	$-38.36^{**}$	27.11**
	Intercept	Win2Events	Log of MVE	<b>BE/ME</b>			
Model 3	0.3575	0.1131	-0.0489	0.0775			
	39.91**	4.20**	$-36.17^{**}$	27.74**			
	Intercept	Win3Events	Log of MVE	BE/ME			
Model 4	0.3544	0.1303	-0.0482	0.0777			
	39.79**	2.65**	-36.09**	27.81**			
	Intercept	Win4Events	Log of MVE	BE/ME			
Model 5	0.3529	0.1396	-0.0479	0.0778			
	39.73**	1.48	-36.05**	27.84**			
	Intercept	New_Best	New_Admired	New_Corporate	New_Work_Mom	Log of MVE	<b>BE/ME</b>
Model 6	0.3559	0.0714	0.0992	0.1113	0.0412	-0.0486	0.0776
	39.93**	0.83	2.72**	3.19**	0.42	-36.25**	27.77**
	Intercept	New	Log of MVE	BE/ME			
Model 7	0.3560	0.1040	-0.0486	0.0776			
	39.95**	4.32**	-36.28**	27.77**			

Table 8 con	tinued						
	Intercept	Repeat_Best	Repeat_Admired	Repeat_Corporate	Repeat_Work_Mom	Log of MVE	BE/ME
Model 8	0.3810	0.0302	0.1668	0.0308	0.0370	-0.0540	0.0757
	41.55**	0.74	$11.62^{**}$	0.94	1.03	-38.08 **	27.09**
	Intercept	Repeat	Log of MVE	<b>BE/ME</b>			
Model 9	0.3821	0.1695	-0.0543	0.0757			
	$41.76^{**}$	12.98**	-38.35**	27.09**			
We retrieve - calculate the dummy varia Citizens, Bes one of the Bc that year; = (New_Admir Companes fo Repent_Best Corporate Ci	the daily returns c annual returns for bles: Best_Co (Ac t Companies for V est Companies to Y o otherwise. Wir of otherwise. Wir ed, New_Corporal or Working Mothe or Working Mothe it Repeat_Admired, tizens, Best Comp	f all stocks which have each stock in the data linited, Corporate, Wo Vorking Mothers) duri work for (Most Admir Devents (Win3bevent te, New_Work_Mom) res) during the year;) = Repeat_Corporate, Ra-	ve available data from both uset. Next, we identify our s nrk_Mom) = 1 if the firm is ng the year: = 0 otherwise. red Companies, Best Corpo s, Win4Events) = 1 if the = 1 if the firm is a new lis = 0 otherwise. New = 1 if thers) during the vert: = 0	CRSP and Research Insig survey sample stocks and s slisted as one of the Best C Best_Only (Admired_Onl rate Citizens, Best Compan- rate Citizens, Best Companies to W ting Best Companies to W the firm is a Repeat winner the firm is a Repeat winner otherwise. Repeat = 1 if 1	ht during our sample period 2 ib-sample stocks from the who ampanies to Work for (Most A v, Corporate_Only, Work_Mo ies for Working Mothers) onl ies four Surveys during th ork for (Most Admired Compa npany for any of the four surv of Best Companies to Work for the firm is a Repeat winner for	2000–2008. Then for each of the network of the stocks a contract of the firm $M_{\rm o}$ only) = 1 if the firm y (but not for other survise mices, Best Corporate C anices, Best Corporate C each dmired Comtra any of the four survey.	ch year, we nd construct at Corporate <i>x</i> eys) during <i>x</i> eys) during <i>x</i> eys) during <i>x</i> eys) during <i>x</i> eys) during <i>x</i> eys) during the set at the set at the set at the set at the set at the set at the set at the set at the

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year; = 0 otherwise. To control for the size effect and book-to-market effect, we add log of MVE (log of market capitalization) and BE/ME ratio in each regression \*\*, \* Indicate statistical significance at 0.01 and 0.05 level, respectively

721

the Best Corporate Citizens, while companies striving for higher returns should adopt corporate practices that might lead to their being included on these same two lists. Our hope is our work on the cumulative effect of corporate rankings leads others to investigate the possible interactive nature that exists in market responses to more than one survey. While our study does not purport to answer all of the questions that might come from a more exhaustive study of corporate rankings, we believe our results are sufficiently provocative to be viewed as a call for additional research in this area.

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