The Flash Crash: Effects on S&P 500 Index versus non-Index stocks

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#### I. INTRODUCTION

On the afternoon of May 6, 2010, the US stock markets experienced a sudden crash and an almost equally sudden recovery. This "Flash Crash" occurred without any obvious external news, and while some firms experienced a complete drop in market capitalization, other firms experienced equally impressive gains during the same time period. In many ways, this 2010 crash is reminiscent of the crash that began on October 19, 1987 when the market declined 20% also without any obvious villains to blame.

This paper focuses on two findings from the October 1987 and investigates whether the same anomalies were present, and to what degree, in the Flash Crash. The two findings in question are whether the S&P 500 was more adversely affected by the crash than the broader market, and if 'beta' was the best predictor of stock vulnerability during a sudden crash.

Preliminary findings indicate that the S&P 500 was more adversely impacted during the Flash Crash, although to a much smaller degree than the 7% difference seen in 1987. Additionally, the significance of beta appears to be consistent with the findings from 1987.

## II. BACKGROUND AND HYPOTHESIS

#### II.1 1987 October Crash

On October 19, 1987, commonly referred to as Black Monday, the stock market dropped more than 20%, resulting in a loss of close to \$1 trillion in market capitalization in the US markets. The decline

spanned of four trading days, with the Black Monday representing the largest single day adjustment. Despite the enormous scale of the crash, the United States' markets actually performed better than its international peers, placing 5<sup>th</sup> in terms of market performance among the 23 major markets (Roll, 1988).

There has been much debate over whether Black Monday is evidence of market efficiency or inefficiency. The latter argument is perhaps most widespread due to an article in the *New York Times* that stated the plunge was largely the result of computerized trading (Kamphuis, 1989). The former argues that there was no single cause for the crash and the sharp decline is a great example of how quickly a paradigm shift can occur.

The most frequently blamed suspects of the 1987 crash are index arbitrage, program trading, and portfolio insurance, but the debate still continues to this day (Fama, 1988). Regardless of the reason for this crash or any other, crashes provide us with unique opportunities to examine how the market behaves in times of extreme volatility.

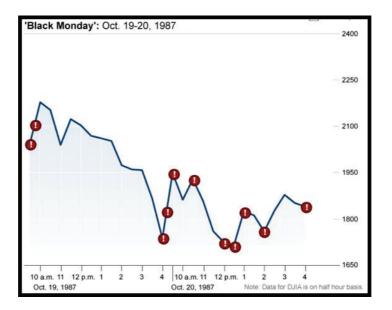


Figure 1 – October 1987 crash in 30 minute intervals1

#### II.1.A S&P 500 underperformance

Blume, MacKinley, and Terker studied the impact of the 1987 crash on the S&P 500 index stocks in their paper *ORDER IMBALANCES AND STOCK PRICE MOVEMENTS ON OCTOBER 19 AND 20, 1987.* Their analysis contained several findings, including an observation that the S&P 500 index stocks underperformed the broader market by a significant percentage. Specifically, they state that "the S&P stocks declined roughly seven percentage points more than non-S&P stocks on October 19 and, in the opening hours of trading on October 20, recovered almost all of this loss."

They performed the analysis by creating two portfolios, one consisting of S&P 500 stocks and one consisting of non-S&P 500 stocks, and found that the S&P portfolio fell 20.5% while the non-S&P portfolio fell 13.1%. By the following morning the gap between the two portfolios had narrowed greatly, as the S&P portfolio also had a faster recovery.

<sup>1</sup> Image as appeared in the Wall Street Journal:

http://online.wsj.com/article/SB10001424052748704314904575250602626326346.html#articleTabs%3Dinteractive

As the paper states, "These results are consistent with, but do not prove, the hypothesis that S&P stocks fell more than warranted on October 19 because the market was unable to absorb the extreme selling pressure on those stocks." The authors also note that this data does not prove market inefficiency, but is supports the conjecture that the magnitude of trading volume had more to do with the additional decline than underlying economic factors.

### II.1.B Beta as a Predictor

Richard Roll took a different approach when examining the October 1987 crash. His research focused more on the international impact of Black Monday and the factors that contributed to varied declines among nations. In his paper *The International Crash of October 1987*, Roll performed a cross-sectional multiple regression on local currency returns and market characteristics. He found no indication that market characteristics had any marginal significance. However, there was one variable with high significance, beta. Beta was not only the most statistically significant predictor of price movement across countries, but it also represented "more than three times the magnitude of any other estimated coefficient in the regression."

# II.2 2010 Flash Crash

The Flash Crash reached its low at 2:47pm on May 6, 2010. Within 10 minutes, the market dropped nearly 600 points, and within a half hour had largely recovered. By the end of the day, the markets had recovered and the S&P 500 returned to its pre-crash levels.

The SEC/CFTC chronicles the events of May 6, 2010 in their report *FINDINGS REGARDING THE MARKET EVENTS OF MAY 6, 2010.* According to the report, the market was turbulent from the start and by 1:00pm there was broad negative sentiment. By 2:30pm, the S&P 500 volatility index ("VIX") increased 22.5% from its opening levels, and the E-mini S&P 500 futures and the S&P 500 SPDR had fallen 55% and 20%, respectively.

The event that many believe ultimately triggered the crash was a large sell order at 2:32pm. A mutual fund wanting to sell 75,000 E-Mini contracts ran an automated execution algorithm. This algorithm sold the entire lot in just 20 minutes, resulting in the largest year-to-date net change in the E-Minis. Between 2:41pm and 2:44pm an additional 140,000 E-Mini contracts were sold by other high frequency traders wishing to reduce their exposure (Commodity Futures Trading Commission and SEC, 2010). This, in turn, accelerated the rate the automated execution algorithm operated, resulting in a liquidity crisis at both the E-Mini index and individual stock level.

The Chicago Mercantile Exchange paused trading on the E-Mini at 2:45:28 for five seconds. This action stabilized prices for the E-Mini as well as the S&P 500 SPDR, even though the automated algorithm continued to sell contracts until 2:51pm (Commodity Futures Trading Commission and SEC, 2010). Around this same time, the over-the-counter market makers routed almost all orders to public exchanges, which decreased the liquidity for individual stocks.

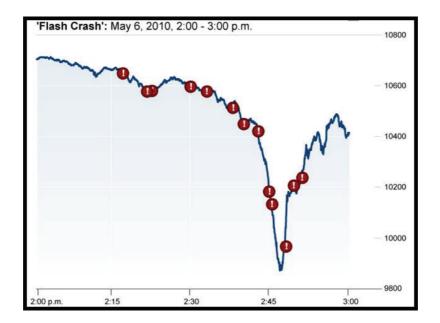


Figure 2 – 'Flash Crash' from 2:00pm – 3:00pm2

2 Image as appeared in the Wall Street Journal: http://online.wsj.com/article/SB10001424052748704314904575250602626326346.html#articleTabs%3Dinteractive

#### **III.3 Hypothesis**

This hypothesis tests whether the stocks in the S&P 500 were more adversely impacted during the Flash Crash relative to an alternative non-S&P 500 portfolio. The initial belief is that a difference will be found, but that the S&P portfolio will not differ from the alternative portfolio by more than 1%, compared to the 7% difference seen in the October crash.

The second hypothesis is that the beta is not a good predictor of how a stock will behave during this market crash. Betas are a moving average of a stock's idiosyncratic risk relative to the broader market, and change over time. Given the extremely short duration of the Flash Crash, and the fact that the crash is widely believed to be the result of a liquidity crisis rather than an adjustment to underlying fundamental data, I predict that the beta will not have a statistically significant impact on the performance of the stocks.

#### III. DATA

#### **Portfolio Sources**

This report uses data from a variety of sources. The list of index components, for both the S&P 500 and the Russell 3000, was gathered using CapitalIQ. The S&P portfolio used in this report is made up of the components of the S&P 500 index, while a subset of Russell 3000 stocks were used to create two separate non-S&P 500 portfolios. The Russell 3000 index was selected because it represents a broad range of US stocks and an accurate list of components was readily available.

#### SIC Codes, Beta, and Market Cap

The Standard Industrial Classification ("SIC") code for each stock was pulled from the Center for Research in Security Prices ("CRSP") database provided by Wharton Research Data Services ("WRDS"). Similarly, this database also provided the market capitalization, capitalization assignment decile, beta, and beta assignment decile for individual stocks using 2009 year-end data.

### **Stock Prices**

Individual stock prices and volumes were pulled from the Trade and Quote ("TAQ") database, also available on WRDS. This database provided "Actual trade Price per Share" and the volume of shares traded from 2:00pm – 4:00pm on May 6, 2010. This window was used because it is roughly plus and minus one hour from the time of the Flash Crash.

The data from TAQ often contained multiple trades per second, but this data was consolidated into 1-minute and 5-minute intervals using a weighted average of all trades occurring within the interval. The 1-minute interval was created because it is not uncommon for a stock in the non-S&P 500 portfolio to trade only a handful of times per minute, as opposed to every second. The 5-minute interval further reduced noise. A 15-minute interval was used in Blume, MacKinley, and Terker's *ORDER IMBALANCES AND STOCK PRICE MOVEMENTS ON OCTOBER 19 AND 20, 1987*, but that length of time is not useful for analyzing a crash that occurred and reversed within roughly thirty minutes.

#### **III.1 Matching Procedure**

In addition to gathering the data, the portfolios themselves needed to be created. In total, three portfolios were generated; one S&P portfolio and two non-S&P portfolios. The S&P portfolios consisted

of the list of companies in the S&P 500 index3. The second two portfolios are named "Pair: Beta" and "Pair: Market Cap." These non-S&P portfolios are 'paired' in the sense that every stock in the S&P portfolio was matched to a similar stock not in the S&P portfolio. The non-S&P portfolios are a collection of these matched stocks.

The "Beta" and "Market Cap" designation describes the two different methods used for creating the non-S&P portfolio. Below is the process for creating both non-S&P portfolios:

**Step 1:** Sort Russell 3000 components (omitting those also in the S&P 500 index) by SIC code descending and then by beta descending for Pair: Beta. Alternatively, sort by SIC code descending, and then by market cap descending for Pair: Market Cap. Sort S&P 500 by just the SIC code descending.

**Step 2:** Match each S&P 500 stock with a Russell 3000 stock with the same 4-digit SIC code. In the case when sorting by beta, the two companies with the largest beta (one S&P portfolio, one non-S&P portfolio) among those with same SIC code are paired. The next two companies with the next largest beta are also paired, etc. Similarly, in the Pair: Market Cap portfolio, the two companies with the greatest market capitalization and same SIC code are paired.

No stock is repeated in the same portfolio. For example, if two S&P stocks have SIC 1234, and only one non-S&P stock has SIC 1234, then only the S&P stock with the larger beta or market cap will be paired and the other S&P stock will remain unpaired. This is also

<sup>3</sup> The S&P 500 portfolio in this report does not use all 500 firms, but rather 470firms. The 30 firms were removed due to data issues as explained in the Appendix.

when differences occur between the two non-S&P portfolios, since the company with the largest beta might not be the same company with the largest market cap.

**Step 3:** For remaining unpaired S&P 500 stocks, match with Russell 3000 stock with same 3-digit SIC code. This is the case where an S&P stock with SIC 1234 could be paired with a non-S&P stock with SIC 1239, because they match on the left three. This match is not as strong as the 4-digit match since the 3-digit code is more general. Again, no stock is paired twice in the same portfolio.

**Step 4:** The remaining unpaired S&P 500 stocks were then matched with Russell 3000 stock with same 2-digit SIC code. This is the case where an S&P stock with SIC 1234 could be paired with a non-S&P stock with SIC 1299. The 2-digit code is more general than the 3- or 4-digit codes, but still has meaning.

**Step 5:** The remaining unpaired S&P stocks are removed from the analysis. This is because 2-digit code SIC code is the highest level industry classification.

There are a limitless number of ways to generate the alternative portfolio. Two non-S&P portfolios were generated because it a way to double check to see if the pairing methodology greatly impacts the results.

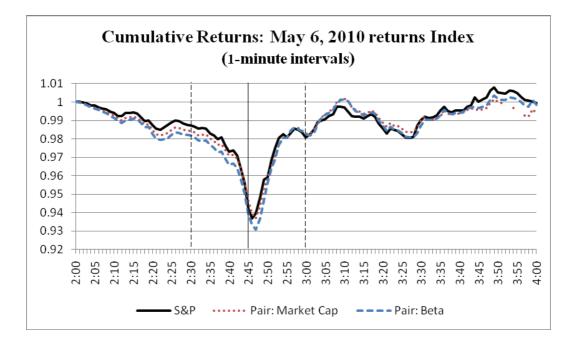
**III.2** Stock Level Data

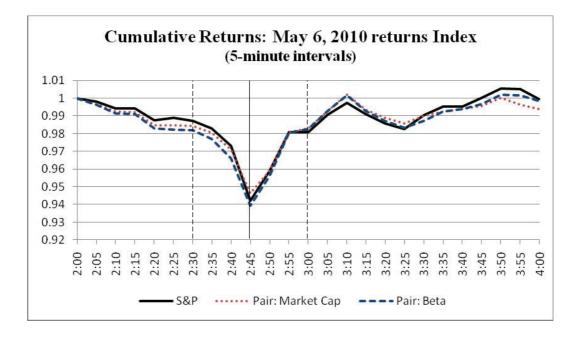
III.2.a Returns

All the charts below show the data in 1-minute intervals and 5-minute intervals. The solid vertical lines are located at 2:45pm, with dashed vertical lines at 2:30pm and 3:00pm.

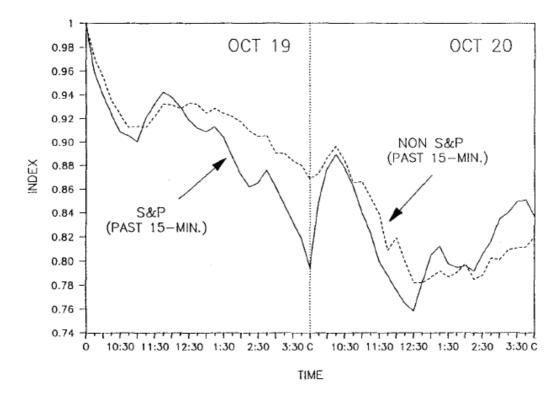
#### **Cumulative Returns**

The first set of charts is an index of all three portfolios, the one S&P portfolio and the two non-S&P portfolios. The index starts at 1, and shows the cumulative returns over the two hour window from 2:00pm – 4:00pm. As we will see, the S&P portfolio hits it low for the day of -6.31% at 2:46pm, while the Pair: Market Cap and Pair: Beta portfolios hit their lows of -6.33% and -6.93% at 2:47pm, respectively.





Below is a copy of the similar index graph appearing in Blume, MacKinley, and Terker' *ORDER IMBALANCES AND STOCK PRICE MOVEMENTS ON OCTOBER 19 AND 20, 1987*:



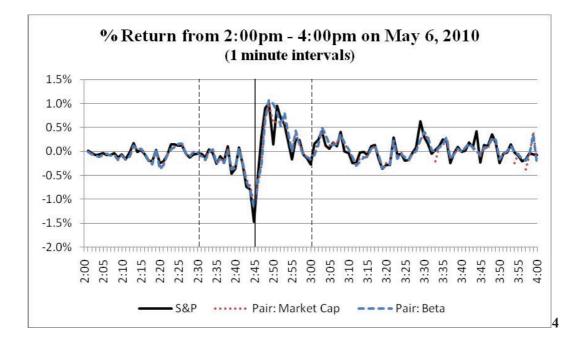
Perhaps the most notable difference between the two sets of charts is the scale. The Flash Crash chart approaches a 10% dip over the course of minutes, while the Black Monday experienced a 20-25% decline over the course of two days.

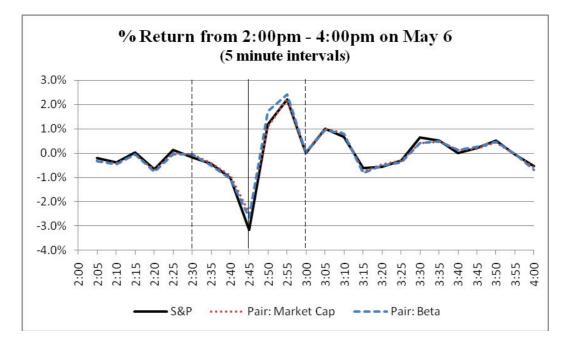
Another notable characteristic when comparing these graphs is that the S&P consistently underperformed the market for most of October 19, 1987. However, with the Flash Crash, we see that for most of the two hour time horizon, the two non-S&P portfolios underperformed the S&P portfolio.

# **Percentage Returns**

The next set of charts show the percentage returns of the three portfolios from 2:00pm - 4:00pm on May 6, 2010. For each portfolio, an average price for each minute was determined by using a weighted average of the number of shares changed and trade price. The percentage movement was the calculated using the following formula:

 $[(P_t / P_{t-1}) - 1] * 100\%$ 



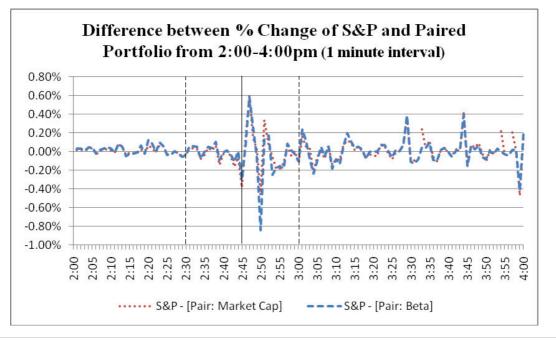


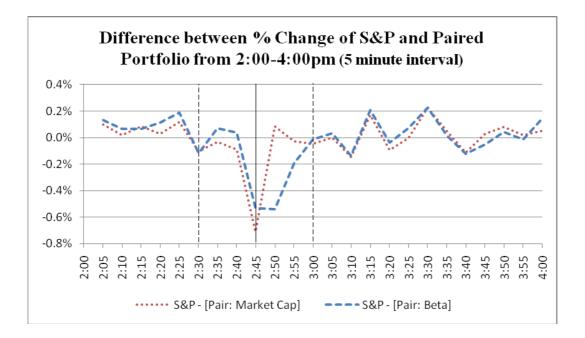
<sup>4</sup> Three data points were removed from all remaining graphs as outliers. All three points were in the Pair – Market Cap portfolio and occurred at 3:32pm, 3:53pm, and 3:56pm. The average percent change was -0.005%, with a deviation of 0.27% and a range of [-1.08%, 0.98%] without the outliers. The percentage change for the outliers were 76.66%, 30.95%, and 9.91%, respectively, and were the result of enormous percentage gains form one company, AMSC.

The 1-minute interval chart shows that the three portfolios behaved in a very similar manner. In fact, of the 120 observations, the S&P portfolio and the Pair: Market Cap portfolio moved in the same direction, either both positively or both negatively, 110 times. The S&P portfolio moved in the same direction of the Pair: Beta portfolio 109 out of 120 observations.

A second important feature of the 1-minute interval chart is that the decline at 2:45pm for the S&P portfolio is greater than either of the non-S&P portfolios. The S&P fell -1.47% between 2:45 and 2:46, while the Pair: Market Cap and Pair: Beta portfolios fell -1.08% and -1.17%, respectively. This preliminary finding indicates that the S&P 500 portfolio was more adversely affected during the peak of the crash than non-S&P stocks.

The next set of charts shows the difference between the S&P portfolio and the non-S&P portfolio, which is simply % change S&P minus the % change non-S&P. All negative points on the graph represent the times when the S&P portfolio underperformed the non-S&P portfolios.



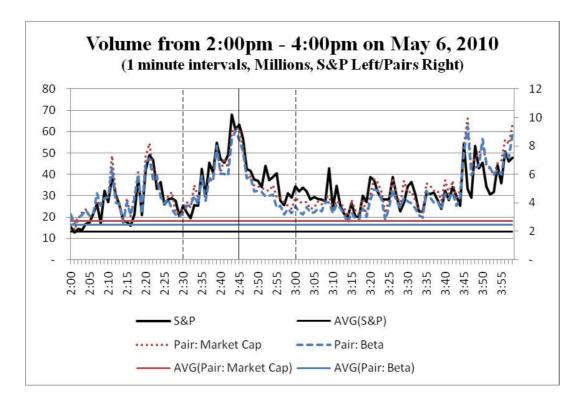


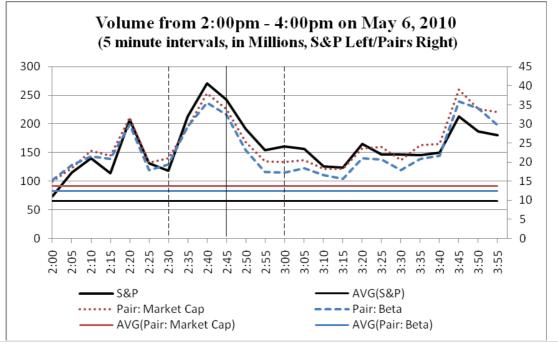
On the 1-minute interval chart above we see that the S&P portfolio fell first, at 2:45, followed by a larger fall in the non-S&P stocks, subsequently followed by an even larger fall in the S&P portfolio. These charts indicate that the S&P 500 portfolio fell by a greater amount during the peak of the crash, although the difference between the portfolios is much less than than the 7% seen during the October 1987 crash.

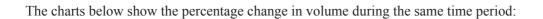
### III.2.b Volume

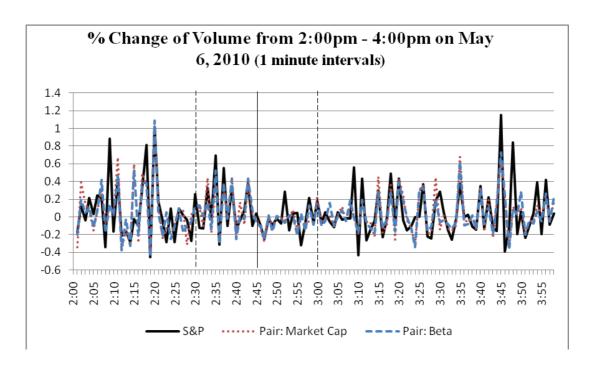
Below are the trading volumes of the three portfolios during the same two hour window. The axis on the left represents the number of shares traded in the S&P portfolio during each interval, while the axis on the right represents the number of shares traded in the non-S&P portfolio during the same intervals. The averages displayed in these charts show the average number of trades per interval form

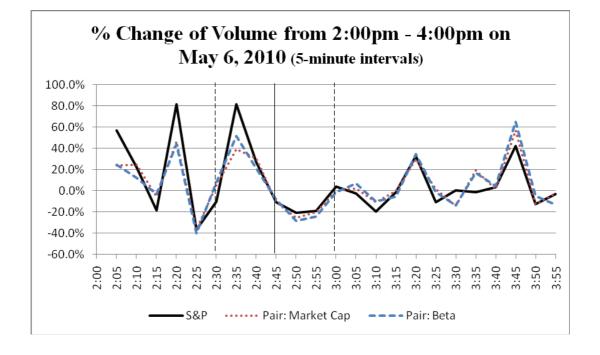
2:00pm – 4:00pm on the previous day, May 5, 2010. It is worth noting that the average volume on May 6, 2010 was more than twice that of the previous day.







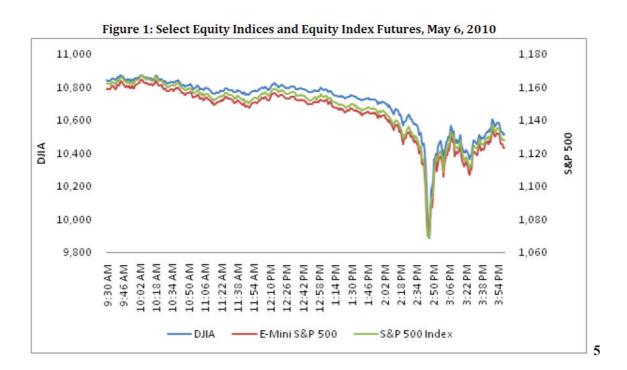




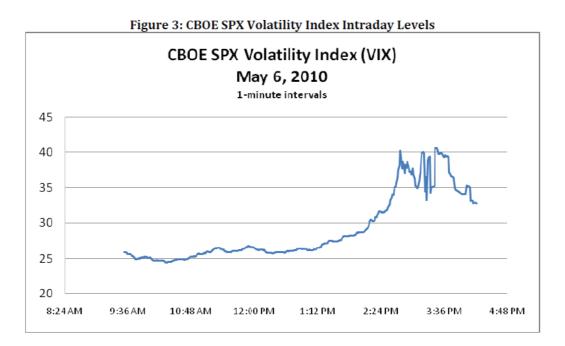
Interestingly, the volume appears to be most calm during the period of the crash, which is consistent with prices decreasing due to a lack of buyers. The portfolios had the greatest volatility between 2:40pm and 3:10pm, but the graphs above show of the smallest number of orders, relative to the already inflated volume, during that same time period.

# IV. Market-level Analysis

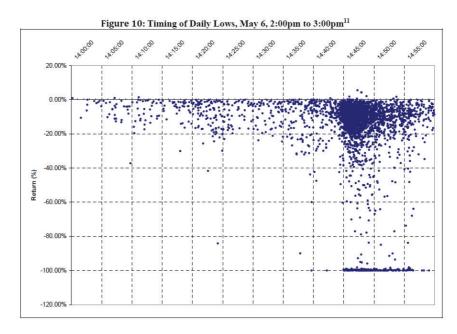
To give some insight into the events of May 6, 2010, we need to examine how the market behaved throughout the day, not just between 2:00pm - 4:00pm. All the charts in this section are as they appear in the SEC's report on the *Preliminary Findings Regarding the Market Events of May 6, 2010*.



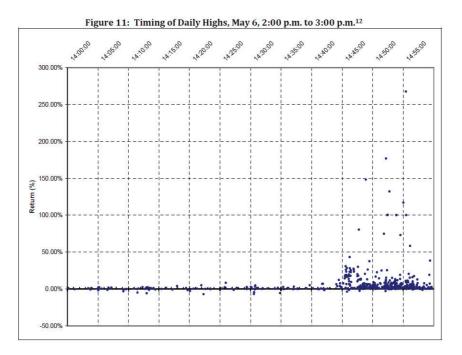
<sup>5</sup> Source: Preliminary Findings Regarding the Market Events of May 6, 2010, SEC



The majority of intra-day lows occurred during the peak of the crash and in its subsequent wake, as the chart below shows:



However, while some stocks lost nearly all their value, a group of stocks also increased drastically, doubling, or even tripling in value during the same time period:



# V. Regression Analysis

The first regression analysis was done to determine if the S&P 500 portfolio performed differently than the non-S&P stocks, using dummy variable to represent the S&P firms6. The regressions below were performed on the 2:45pm cross-section, using a 5-minute interval. Therefore, it captures the changes from 2:45pm – 2:50pm. This time was chosen because it was the minute that had the most significant declines in the data.

<sup>6</sup> Dummy Variable "S&P?" = 1 if stock is on the S&P500, 0 otherwise

Each table contains two sets of regressions because the S&P portfolio was compared to each of the non-S&P portfolios separately.

Table 1	: %	change	versus	S&P?
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<b>Pair: Beta</b> (R-Sq = 2.2%)				
	Coef	Т	Р	
Constant	-0.0263	-32.34	0.000	
S&P?	-0.0053	-4.61	0.000	

<b>Pair: Market Cap</b> (R-Sq = 4.9%)					
	Coef	Т	Р		
Constant	-0.0245	-33.87	0.000		
S&P?	-0.0071	-6.95	0.000		

Depending on the alternative portfolio used, the S&P portfolio dropped -0.5 to -0.7% more than the non-S&P portfolio. This coefficient is statistically significant, indicating that the S&P stocks were hurt more during the peak of the crash.

The second regression looks at several more variables, including beta, market capitalization, and abnormal volume. The beta and market cap were pulled from the CRSP database, as previously mentioned, and a 2009 end-of-year numbers. The 'abnormal return' variable is a ratio consisting of the volume traded between 2:45pm and 2:50pm, divided by the average 2-hour volume of the previous day.

Table 2: % Change versus S&P?, Beta, MarkCap(M), AbVolume

2:45-2:50	Pair: Beta (R-Sq = 6.3%)			Pair: N	Market Cap (I	R-Sq = 7.4%	)	
		Coef	Т	Р		Coef	Т	Р
	Constant	-0.01754	-8.65	0.000	Constant	-0.0201	-11.68	0.000
	S&P?	-0.00595	-4.71	0.000	S&P?	-0.0060	-5.56	0.000
	Beta	-0.00418	-5.48	0.000	Beta	-0.0027	-3.56	0.000
	MarkCap(M)	-0.00008	-3.59	0.000	MarkCap(M)	-0.0001	-3.76	0.000
	AbVolume	-0.00106	-1.22	0.224	AbVolume	-0.0005	-0.64	0.524

Of the four variables in the regression, only the abnormal volume ratio is not statistically significant. There is not enough data at this point to claim that beta is the best predictor of how the stocks behaved, but it does appear to have a significant predictive quality. It is also worth noting that the R-squared values are 6.3% and 7.4%, which is much greater than originally predicted.

Table 3 below contains a series of regressions for five time periods, ranging from 2:35pm through 3:00pm. The purpose of this regression is to examine the predictive qualities of the variables in the minutes leading up to the crash, as well as in the recovery of the crash. The three variables used in the regression below are the S&P dummy variable, beta, and market cap.

2:35-2:40	Pai	r: Beta (R-Sq	= 4.8%)		Pair: Market Cap (R-Sq = 5.6%)	
		Coef	Т	Р	Coef T	Р
	Constant	-0.00313	-8.43	0.000	Constant -0.0024 -8.90 0.0	00
	S&P?	-0.00034	1.12	0.263	S&P? -0.0003 -1.04 0.2	99
	Beta	-0.00111	-6.06	0.000	Beta -0.0012 -7.02 0.0	00
	MarkCap(M)	-0.00001	-2.15	0.032	MarkCap(M) -0.0000 -2.55 0.0	11
2:40-2:45	Pai	r: Beta (R-Sq	= 8.4%)		Pair: Market Cap (R-Sq = 16.7%)	
		Coef	Т	Р	Coef T	Р
	Constant	-0.0058	-9.62	0.000	Constant -0.0056 -16.45 0.0	00
	S&P?	-0.0012	-2.39	0.017	S&P? -0.0013 -4.29 0.0	00
	Beta	-0.0027	-9.08	0.000	Beta -0.0028 -13.11 0.0	00
	MarkCap(M)	0.0000	0.70	0.485	MarkCap(M) 0.0000 1.04 0.2	98
2:45-2:50	Pai	r: Beta (R-Sq	= 6.2%)		Pair: Market Cap (R-Sq = 7.3%)	
		Coef	Т	Р	Coef T	Р
	Constant	-0.0192	-12.49	0.000	Constant -0.0201 -17.09 0.0	00
	S&P?	-0.0059	-4.69	0.000	S&P? -0.0060 -5.58 0.0	00
	Beta	-0.0041	-5.42	0.000	Beta -0.0027 -3.53 0.0	00
	MarkCap(M)	-0.0001	-3.56	0.000	MarkCap(M) -0.0001 -3.75 0.0	00
2:55-2:55	Pai	r: Beta (R-Sq	= 6.3%)		Pair: Market Cap (R-Sq = 5.7%)	
		Coef	Т	Р	Coef T	Р
	Constant	0.0035	1.52	0.130	Constant 0.0003 0.17 0.8	67
	S&P?	-0.0031	-1.62	0.105	S&P? 0.0000 0.00 0.9	99
	Beta	0.0079	6.89	0.000	Beta 0.0080 7.09 0.0	00
	MarkCap(M)	0.0001	2.78	0.006	MarkCap(M) 0.0001 3.11 0.0	02
2:55-3:00	Pai	r: Beta (R-Sq	= 2.8%)		Pair: Market Cap (R-Sq = 1.4%)	
		Coef	Т	Р	Coef T	Р
	Constant	0.0148	6.60	0.000	Constant 0.0173 9.14 0.0	00
	S&P?	0.0014	0.75	0.454	S&P? 0.0006 0.35 0.7	23
	Beta	0.0054	4.88	0.000	Beta 0.0040 3.43 0.0	00
	MarkCap(M)	-0.0000	-0.64	0.522	MarkCap(M) -0.0000 -0.80 0.4	26

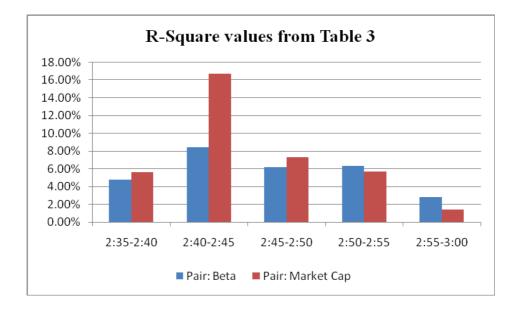
# Table 3: % Change versus S&P?, Beta, MarkCap(M) Series

There are a number of observations from the results above. First, the only variable that is statistically significant in every regression is beta, and it always falls within the 99% confidence interval. Additionally, the beta coefficient consistently matches the same sign as the constant coefficient.

Regardless of whether the market is increasing or decreasing, the stocks with the higher betas appear to follow in the same direction to a greater degree. This is beta's purpose, but it is interesting that beta remains valuable even during short time durations in potentially irrational markets. More analysis would need to determine if beta is in fact the best predictor, but these results are consistent with that belief.

Much like beta, the S&P dummy variable's coefficient also consistently has the same sign as the constant's coefficient. This further supports the claim that the S&P 500 fell faster and recovered faster than an alternative portfolio.

There is also an unexpected finding with regards to the r-squared values. These values vary greatly across tests, ranging from 1.4% through 16.7%. However, there seems to be a pattern. The r-squared value increases during volatile periods and decreases thereafter. Five time periods is not enough draw any conclusion, but this data at least indicates that beta and market cap may become better predictors in times of extreme volatility.



#### VI. Conclusion

In October 1987, the S&P 500 performed 7% worse than the broader market during the Black Monday crash. This report analyzed whether the same was true during the May 6, 2010 Flash Crash. The methodology used was to create an S&P portfolio and compare it to two different alternative portfolios. Both non-S&P portfolios consisted of companies in the same industries as the S&P portfolio, and a secondary characteristic of having the best match with regards to beta or market capitalization.

The analysis indicated that stocks in the S&P 500 underperform its peers, but to a much lesser extent than in 1987. The S&P stocks were within 1% of the non-S&P portfolios at the peak of the crash, compared to 7% on Black Monday. The fact that the 2010 crash occurred quicker and the imbalance between the portfolios was smaller may be the result of a more efficient market. Technological improvements may be one of the factors that enable markets to digest larger corrections faster than twenty years ago. I would expect this trend to continue, and when the next sudden crash occurs for no obvious reason, there will be even less of a difference between the S&P and non-S&P portfolios.

This study also found that beta is still one of the best predictors of how a stock will behave during a crash. Despite the fact the regression was performed on returns over 5-minute windows, the beta still predicted stock price movement more consistently and to an overall higher degree than the other predictors.

# APPENDIX: S&P 500 Index Firms Removed from S&P Portfolio

**Company Removed** 

Berkshire Hathaway Inc. **Brown-Forman** Corporation **Comcast Corporation** Discovery Communications, Inc. **E\*TRADE** Financial Corporation Motorola Mobility Holdings, Inc. Motorola Solutions, Inc. NextEra Energy, Inc. Noble Corp. QEP Resources, Inc. Viacom, Inc. Moody's Corp. CareFusion Corporation **CBS** Corporation CME Group Inc. Coach Inc. ConocoPhillips Constellation Brands Inc. Coventry Health Care Inc. Dun & Bradstreet Corp. Fluor Corporation Lennar Corp. McCormick & Co. Inc. Loews Corporation Lorillard. Inc. Altria Group Inc. Norfolk Southern Corp. The Sherwin-Williams Company The Home Depot, Inc. Big Lots Inc. Reynolds American Inc. Lorillard, Inc. Altria Group Inc. Norfolk Southern Corp. The Sherwin-Williams Company The Home Depot, Inc. Family Dollar Stores Inc. Molson Coors Brewing Company **Reason for Omission** 

No SIC code associated with stock ticker in CRSP No SIC code associated with stock ticker in CRSP No SIC code associated with stock ticker in CRSP No SIC code associated with stock ticker in CRSP No SIC code associated with stock ticker in CRSP No SIC code associated with stock ticker in CRSP No SIC code associated with stock ticker in CRSP No SIC code associated with stock ticker in CRSP No SIC code associated with stock ticker in CRSP No SIC code associated with stock ticker in CRSP No SIC code associated with stock ticker in CRSP Bad beta associated with stock ('0') in CRSP No beta associated with stock in CRSP No SIC pair found - Pair: Market Cap method No SIC pair found - Pair: Market Cap method No SIC pair found – Pair: Market Cap method No SIC pair found - Pair: Market Cap method No SIC pair found - Pair: Market Cap method No SIC pair found - Pair: Market Cap method No SIC pair found - Pair: Market Cap method No SIC pair found – Pair: Beta method No SIC pair found - Pair: Beta method No SIC pair found - Pair: Beta method No SIC pair found – Pair: Beta method No SIC pair found - Pair: Beta method No SIC pair found - Pair: Beta method No SIC pair found – Pair: Beta method No Market Cap in CRSP

# APPENDIX: Pair: Market Cap Portfolio

S&P	Matched Pair	SIC Match
3M Co.	Insulet Corporation	3841
Abbott Laboratories	NeurogesX, Inc.	2834
Abercrombie & Fitch Co.	Buckle Inc.	5651
ACE Limited	Old Republic International Corp.	6331
Adobe Systems Inc.	Parametric Technology Corporation	7370
Advanced Micro Devices, Inc.	Diodes Incorporated	3674
Aetna Inc.	CorVel Corporation	6324
AFLAC Inc.	Triple-S Management Corporation	6321
Agilent Technologies Inc.	Ixia	3825
Air Products & Chemicals Inc.	Sensient Technologies Corporation	2813
Airgas Inc.	Innophos Holdings Inc	5169
AK Steel Holding Corporation	Texas Industries Inc.	3312
Akamai Technologies Inc.	BGC Partners, Inc.	7372
Alcoa, Inc.	Kaiser Aluminum Corporation	3334
Allegheny Energy Inc.	Dynegy Inc.	4911
Allegheny Technologies Inc.	Carpenter Technology Corp.	3312
Allergan Inc.	Durect Corp.	2834
Altera Corp.	SMART Modular Technologies (WWH) Inc.	3670
Amazon.com Inc.	United Online, Inc.	7370
Ameren Corporation	Northwestern Corp.	4931
American Electric Power Co., Inc.	ITC Holdings Corp.	4911
American Express Company	City National Corp.	6712
American International Group, Inc.	Unitrin Inc.	6331
American Tower Corp.	Hughes Communications, Inc.	4899
Ameriprise Financial Inc.	Advance America, Cash Advance Centers Inc.	6141
AmerisourceBergen Corporation	BMP Sunstone Corporation	5122
Amgen Inc.	BioCryst Pharmaceuticals, Inc.	2830
Amphenol Corporation	Thomas & Betts Corp.	3678
Anadarko Petroleum Corporation	Quicksilver Resources Inc.	1311
Analog Devices Inc.	IXYS Corp.	3674
Aon Corporation	PartnerRe Ltd.	6321
Apache Corp.	McMoRan Exploration Co.	1311
Apartment Investment & Management Co.	iStar Financial Inc.	6798
Apollo Group Inc.	Career Education Corp.	8200
Apple Inc.	Omnicell Inc.	3571
Applied Materials Inc.	Brooks Automation Inc.	3550
Archer Daniels Midland Company	Darling International Inc.	207
Assurant Inc.	Employers Holdings, Inc.	6331
AT&T, Inc.	Virgin Media, Inc.	4813
Autodesk, Inc.	Smith Micro Software Inc.	7370
Automatic Data Processing, Inc.	DST Systems Inc.	7374

S&P	Matched Pair	SIC Match
Laboratory Corp. of America Holdings	Genoptix, Inc.	8071
Legg Mason Inc.	Calamos Asset Management Inc.	6211
Leggett & Platt, Incorporated	Sealy Corporation	2515
Leucadia National Corp.	Louisiana-Pacific Corp.	242
Lexmark International Inc.	Aruba Networks, Inc.	3577
Life Technologies Corporation	Novavax, Inc.	2836
Limited Brands, Inc.	Charming Shoppes Inc.	5621
Lincoln National Corp.	Protective Life Corp.	6311
Linear Technology Corp.	Rambus Inc.	3670
Lockheed Martin Corporation	Federal Signal Corp.	37
Loews Corporation	Star Scientific, Inc.	2111
Lowe's Companies Inc.	Builders FirstSource, Inc.	5211
LSI Corporation	ON Semiconductor Corp.	3674
M&T Bank Corp.	Western Alliance	6022
	Bancorporation	
Macy's, Inc.	Stein Mart Inc.	5311
Marathon Oil Corporation	Walter Energy, Inc.	1321
Marriott International, Inc.	Vail Resorts Inc.	7011
Marsh & McLennan Companies, Inc.	MGIC Investment Corp.	6351
Marshall & Ilsley Corporation	Synovus Financial Corp.	6021
Masco Corporation	American Woodmark Corp.	243
Massey Energy Co.	James River Coal Co.	1221
Mastercard Incorporated	EnerNOC, Inc.	7389
Mattel Inc.	Kid Brands, Inc.	3942
McAfee, Inc.	Magma Design Automation Inc.	7372
McDonald's Corp.	Ruby Tuesday, Inc.	5812
McKesson Corporation	Herbalife Ltd.	5122
Mead Johnson Nutrition	Caraco Pharmaceutical	2834
Company	Laboratories Ltd.	
MeadWestvaco Corporation	Domtar Corporation	2621
MedcoHealth Solutions Inc.	Drugstore.com Inc.	591
Medtronic, Inc.	Nalco Holding Co.	3841
MEMC Electronic Materials Inc.	Entropic Communications, Inc.	3674
Merck & Co. Inc.	Acacia Research Corporation	2834
MetLife, Inc.	National Financial Partners Corp.	6411
MetroPCS Communications, Inc.	NII Holdings Inc.	4812
Microchip Technology Inc.	TriQuint Semiconductor, Inc.	3670
Micron Technology Inc.	Conexant Systems Inc.	3674
Microsoft Corporation	Interactive Intelligence, Inc.	7370
Molex Inc.	Anadigics, Inc.	3670
Molson Coors Brewing	Coca-Cola Bottling Co.	208
Company	Consolidated	
Monsanto Co.	The Scotts Miracle-Gro Co.	2879
Monster Worldwide, Inc.	Lamar Advertising Co.	731

AutoZone Inc. Pep Boys - Manny, Moe & Jack 5	511 531
	798
	75
	844
	533
Ball CorporationCrown Holdings Inc.3	411
Bank of America CorporationWebster Financial Corp.6	021
Baxter International Inc. Delcath Systems Inc. 3	841
BB & T Corp. Financial Institutions Inc. 6	02
Becton, Dickinson and Symmetry Medical, Inc. 3 Company	841
Bed Bath & Beyond, Inc. Tuesday Morning Corp. 5	7
Bemis Company, Inc. Clearwater Paper Corporation 2	6
Best Buy Co. Inc. Pier 1 Imports, Inc. 5	7
	331
	830
	372
	721
	798
	841
Bristol-Myers Squibb Medicines Co. 2 Company	834
· · · · · · · · · · · · · · · · · · ·	670
	372
······································	841
*	311
Cameron International Dynamic Materials Corp. 3 Corporation	49
	03
Capital One Financial Corp. Capital Source Inc. 6	141
Cardinal Health, Inc. Elizabeth Arden, Inc. 5	122
	5
Carnival Corporation Royal Caribbean Cruises Ltd. 4	481
Caterpillar Inc. Manitowoc Co. Inc. 3	531
CB Richard Ellis Group, Inc. RAIT Financial Trust 6	798
	89
CenterPoint Energy, Inc. UIL Holdings Corporation 4	911
CenturyLink, Inc. Atlantic Tele-Network, Inc. 4	813
	830
	373
CF Industries Holdings, Inc. LSB Industries Inc. 2	873
	731
Charles Schwab Corp. Raymond James Financial Inc. 6	211
	311
	9
	324
	330
	320
	674
Citigroup, Inc. Citizens Republic Bancorp, Inc 6	021
	370
Inc.	

Morgan Stanley	Wilmington Trust Corporation	6712
Murphy Oil Corporation	Holly Corporation	2911
Mylan, Inc.	Jazz Pharmaceuticals, Inc.	2834
Nabors Industries Ltd.	Hercules Offshore, Inc.	1381
Nasdaq OMX Group Inc.	GFI Group Inc.	6200
National Oilwell Varco, Inc.	Gulfmark Offshore, Inc.	3533
National Semiconductor Corporation	OmniVision Technologies Inc.	3674
NetApp, Inc.	Brocade Communications Systems, Inc.	3572
Netflix, Inc.	World Wrestling Entertainment Inc.	78
Newell Rubbermaid Inc.	Entegris, Inc.	3089
Newfield Exploration Co.	Swift Energy Co.	1311
Newmont Mining Corp.	Golden Star Resources, Ltd.	1041
News Corp.	The E. W. Scripps Company	2711
Nicor Inc.	Atmos Energy Corporation	4924
Nike Inc.	CROCS Inc.	3021
NiSource Inc.	CH Energy Group Inc.	4931
Noble Energy, Inc.	NV Energy, Inc.	4931
Nordstrom Inc.	J. Crew Group, Inc.	5651
Northeast Utilities	El Paso Electric Co.	4911
	Boston Private Financial	
Northern Trust Corporation	Holdings Inc.	6020
Northrop Grumman Corporation	Garmin Ltd.	3812
Novell Inc.	Syntel, Inc.	7370
Novellus Systems, Inc.	Century Aluminum Co.	3350
NRG Energy, Inc.	Calpine Corp.	4911
Nucor Corporation	Universal Stainless & Alloy Products Inc.	3312
NVIDIA Corporation	Power-One Inc.	3670
NYSE Euronext, Inc.	TD AMERITRADE Holding Corporation	62
Occidental Petroleum	Continental Resources Inc.	1311
Corporation Omnicom Group Inc.	Valassis Communications Inc.	731
ONEOK Inc.		
	Southwest Gas Corporation	4923
Oracle Corp.	Ansys, Inc.	7370
O'Reilly Automotive Inc.	U.S. Auto Parts Network, Inc.	553
Owens-Illinois, Inc.	Apogee Enterprises, Inc.	32
PACCAR Inc.	Oshkosh Corporation	3711
Pall Corp.	Twin Disc Inc.	356
Parker Hannifin Corporation	Sun Hydraulics Corp.	349
Patterson Companies Inc.	1-800-Flowers.com Inc.	5990
Paychex Inc.	DSP Group Inc.	87
Peabody Energy Corp.	Alpha Natural Resources, Inc.	1221
People's United Financial Inc.	Univest Corp. of Pennsylvania	6036
Pepco Holdings, Inc.	ALLETE, Inc.	4931
Pepsico, Inc.	National Beverage Corp.	2086
PerkinElmer Inc.	Cepheid	3826
Pfizer Inc.	Akorn, Inc.	2834
1119.	UniSource Energy Corporation	4911
PG & E Corp.		2111
PG & E Corp.	Vector Group Ltd.	2111
PG & E Corp. Philip Morris International, Inc. Pinnacle West Capital Corp.		4911
PG & E Corp. Philip Morris International, Inc. Pinnacle West Capital Corp.	Vector Group Ltd. Great Plains Energy Incorporated	
PG & E Corp. Philip Morris International, Inc.	Vector Group Ltd. Great Plains Energy	4911

Clorox Corporation	Zep, Inc.	2842
CMS Energy Corp.	Vectren Corporation	493
Coca-Cola Enterprises Inc.	M&F Worldwide Corp.	2086
Cognizant Technology Solutions Corp.	Epicor Software Corporation	7370
Colgate-Palmolive Co.	AptarGroup, Inc.	2844
Comerica Incorporated	Banco Latinoamericano de Comercio Exterior, S.A	6021
Computer Sciences Corporation	Unisys Corporation	7373
Compuware Corporation	Concur Technologies, Inc.	7370
ConAgra Foods, Inc.	Seaboard Corp.	2011
CONSOL Energy Inc.	Arch Coal Inc.	122
Consolidated Edison Inc.	UGI Corp.	493
Constellation Energy Group,	OGE Energy Corp.	4931
Inc.	0,5 1	
Corning Inc.	Belden, Inc.	3357
Costco Wholesale Corporation	School Specialty Inc.	53
	1	-
CR Bard Inc.	CryoLife Inc.	3841
CSX Corp.	Kansas City Southern	4011
Cummins Inc.	Brunswick Corporation	3519
CVS Caremark Corporation	Rite Aid Corp.	5912
Danaher Corp.	Cognex Corp.	3823
Darden Restaurants, Inc.	Ruth's Hospitality Group Inc.	5812
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DaVita, Inc.	Clinical Data, Inc.	809
Dean Foods Co.	Lifeway Foods Inc.	202
Deere & Company	CNH Global NV	3523
Dell Inc.	Extreme Networks Inc.	3570
Denbury Resources Inc.	Stone Energy Corp.	1311
DENTSPLY International Inc.	Somaxon Pharmaceuticals, Inc.	3840
Devon Energy Corporation	ATP Oil & Gas Corp.	1311
DeVry, Inc.	Corinthian Colleges Inc.	8249
Diamond Offshore Drilling Inc.	Parker Drilling Co.	1381
DIRECTV	Clearwire Corporation	4899
Discover Financial Services	World Acceptance Corp.	6141
Dominion Resources, Inc.	Westar Energy, Inc.	4911
Dover Corp.	Columbus Mckinnon Corp.	353
DR Horton Inc.	Beazer Homes USA Inc.	1531
Dr Pepper Snapple Group, Inc.	Wendy's/Arby's Group, Inc.	2086
DTE Energy Co.	Ormat Technologies Inc.	4911
Duke Energy Corporation	IdaCorp, Inc.	4911
Eastman Chemical Co.	PolyOne Corporation	2821
Eaton Corporation	ArvinMeritor Inc.	3714
eBay Inc.	Alliance Data Systems Corporation	7389
Ecolab Inc.	Arch Chemicals Inc.	2841
Edison International	Otter Tail Corporation	4911
EI DuPont de Nemours & Co.	Myers Industries Inc.	2821
El Paso Corp.	PetroQuest Energy Inc.	1311
Electronic Arts Inc.	iGATE Corporation	7370
Eli Lilly & Co.	Targacept, Inc.	2834
EMC Corporation	Falconstor Software Inc.	3572
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Emerson Electric Co.	Capstone Turbine Corp.	3629
Entergy Corporation	Empire District Electric Co.	4911
EOG Resources, Inc.	GMX Resources Inc.	1311
EQT Corporation	Energen Corp.	4923

Polo Ralph Lauren Corp.       The Talbots Inc.       \$136         PPG Industries Inc.       Ferro Corp.       2851         PPL Corporation       Alliant Energy Corporation       2813         Precision Castparts Corp.       Steel Dynamics Inc.       33         priceline.com Incorporated       comScore, Inc.       7389         Principal Financial Group Inc.       Presidential Life Corp.       63         Proter & Gamble Co.       Stepan Company       2841         Progress Energy Inc.       Portland General Electric       4911         Company       American Financial Group Inc.       6331         Proders & Gamble Co.       Stepan Company       2841         Progressive Corp.       American Financial Group Inc.       6331         Prologis       Developers Diversified Realty       6798         Corp.       Predictiony. Inc.       Phoenix Companies Inc.       6361         Public Storage       MPG Office Trust, Inc.       6798         PulteGroup. Inc.       EMCOR Group Inc.       1731         Quest Diagnostics Inc.       Array BioPharma, Inc.       8071         Quest Diagnostics Inc.       Array BioPharma, Inc.       8701         RadioShack Corp.       hhgregg, Inc.       5731         Rayteon Co.	PNC Financial Services Group Inc.	First Community Bancshares, Inc. (Bluefield)	6021
PPL Corporation       Alliant Energy Corporation       4911         Praxair Inc.       Calgon Carbon Corporation       2813         Precision Castparts Corp.       Steel Dynamics Inc.       33         priceline.com Incorporated       comScore, Inc.       7389         Principal Financial Group Inc.       Presidential Life Corp.       63         Proters & Gamble Co.       Stepan Company       2841         Progress Energy Inc.       Portland General Electric       4911         Company       Progressive Corp.       American Financial Group Inc.       6331         Prologis       Developers Diversified Realty       6798         Pulue Storage       MPG Office Trust, Inc.       6798         Pulte Storage       MPG Office Trust, Inc.       6798         Quanta Services, Inc.       EMCOR Group Inc.       1731         Quest Diagnostics Inc.       Array BioPharma, Inc.       8071         Quest Communications       Cogen Communications       4813         International Inc.       Group Inc.       7371         Range Resources Corporation       Forest Oil Corp.       1311         Regions Financial Corp.       ParkWest Bancorp       6021         Raythcon Co.       Herley Industries Inc.       3734         Rockwel	Polo Ralph Lauren Corp.	The Talbots Inc.	5136
Praxair Inc.       Calgon Carbon Corporation       2813         Precision Castparts Corp.       Steel Dynamics Inc.       33         priceline.com Incorporated       comScore, Inc.       7389         Principal Financial Group Inc.       Presidential Life Corp.       63         Progress Energy Inc.       Portland General Electric       6331         ProJogis       Developers Diversified Realty       6798         Prudential Financial, Inc.       Phoenix Companies Inc.       6311         Public Service Enterprise Group       Cleco Corporation       4931         Inc.       HPG Office Trust, Inc.       6798         Public Service Enterprise Group       Cleco Corporation       4931         Inc.       HPG Office Trust, Inc.       6798         QuALCOMM Incorporated       BigBand Networks, Inc.       3663         Quanta Services, Inc.       Array BioPharma, Inc.       8071         Qwest Communications       Cogent Communications       4813         International Inc.       Group Inc.       7731         Rage Resources Corporation       Forest Oil Corp.       1311         Raytheon Co.       Herley Industries Inc.       3321         Regions Financial Corp.       PacWest Bancorp       6021         Regions Financial Cor	PPG Industries Inc.	Ferro Corp.	2851
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priceline.com Incorporated       comScore, Inc.       7389         Principal Financial Group Inc.       Presidential Life Corp.       63         Procter & Gamble Co.       Stepan Company       2841         Progress Energy Inc.       Portland General Electric       4911         Company       Processive Corp.       American Financial Group Inc.       6331         ProLogis       Developers Diversified Realty       6798         Public Service Enterprise Group       Cleco Corporation       4931         Inc.       Hovnanian Enterprises Inc.       6331         PulteGroup, Inc.       Hovnanian Enterprises Inc.       3633         Quart CoMM Incorporated       BigBand Networks, Inc.       3663         Quast Diagnostices Inc.       EMCOR Group Inc.       1731         Quest Diagnostices Inc.       Array BioPharma, Inc.       8071         Qwest Communications       Cogent Communications       4813         International Inc.       Group Inc.       3731         RadioShack Corp.       hhgregg, Inc.       5731         Rage Resources Corporation       Forest Oil Corp.       1311         Raytheon Co.       Herley Industries Inc.       3812         Red Hat, Inc.       Corps.       2742         Gorp.	Praxair Inc.	Calgon Carbon Corporation	2813
Principal Financial Group Inc.       Presidential Life Corp.       63         Procter & Gamble Co.       Stepan Company       2841         Progress Energy Inc.       Portland General Electric       4911         Company       Developers Diversified Realty       6798         ProLogis       Developers Diversified Realty       6798         Prudential Financial, Inc.       Phoenix Companies Inc.       6311         Public Storage       MPG Office Trust, Inc.       6798         PulteGroup, Inc.       Hovnanian Enterprises Inc.       1531         QUALCOMM Incorporated       BigBand Networks, Inc.       3663         Quest Diagnostics Inc.       Array BioPharma, Inc.       8071         Quest Communications       Cogent Communications       4813         International Inc.       Group Inc.       7750         R.B. Donnelley & Sons       Presstek Inc.       7751         Range Resources Corporation       Forest Oil Corp.       1311         Raytheon Co.       Herley Industries Inc.       3812         Red Hat, Inc.       International Inc.       Corp.         Regions Financial Corp.       PacWest Bancorp       6021         Report Industries Inc.       Graco Inc.       3763         Rockwell Autimational Inc. <t< td=""><td>Precision Castparts Corp.</td><td>Steel Dynamics Inc.</td><td>33</td></t<>	Precision Castparts Corp.	Steel Dynamics Inc.	33
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CompanyProgressive Corp.American Financial Group Inc.6331ProLogisDevelopers Diversified Realty6798Corp.Prudential Financial, Inc.Phoenix Companies Inc.6311Public Service Enterprise GroupCleco Corporation4931Inc.Public StorageMPG Office Trust, Inc.6798Public StorageMPG Office Trust, Inc.6798QuAL COMM IncorporatedBigBand Networks, Inc.3663Quanta Services, Inc.EMCOR Group Inc.1731Quest Diagnostics Inc.Array BioPharma, Inc.8071Qwest CommunicationsCogent Communications4813International Inc.Group Inc.75731Range Resources CorporationForest Oil Corp.1311Raytheon Co.Herley Industries Inc.3812Red Hat, Inc.Corp.PacWest Bancorp6021Regions Financial Corp.PacWest Bancorp6021Regions Financial Corp.PacWest Bancorp6021Regions Financial Corp.PacWest Bancorp3829Rockwell Collins Inc.Ducommun Inc.3728Roper Industries Inc.Graco Inc.3561Ross Stores Inc.Zumiez, Inc.561Ross Stores Inc.Zumiez, Inc.561Rowan Companies Inc.W&T Offshore Inc.1381Ryder System, Inc.Standard Parking Corp.731Salesforce.comSFN Group, Inc.8742Sanbisk Corp.Universal Display Corp.3573Salesforce comSFN Group, Inc. </td <td></td> <td></td> <td></td>			
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Snap-on Inc.EnPro Industries, Inc.342Southern CompanyDPL Inc.4911	SLM Corporation		61
Southern Company DPL Inc. 4911			

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Equifax Inc.	Valassis Communications Inc.	73	So
Equity Residential	LaSalle Hotel Properties	6798	Sp
Estee Lauder Companies Inc.	Revlon, Inc.	2844	Sp
Exelon Corp.	MGE Energy Inc.	4931	St.
Expedia Inc.	Gaylord Entertainment Co.	4833	Sta
Expeditors International of Washington Inc.	Forward Air Corp.	4730	Sta
Express Scripts Inc.	HEALTHSOUTH Corp.	8093	Sta
Exxon Mobil Corporation	WD-40 Company	29	Sta W
F5 Networks, Inc.	Nuance Communications, Inc.	7372	Sta
Fastenal Co.	Lumber Liquidators Holdings, Inc.	52	Ste
Federated Investors, Inc.	Cohen & Steers Inc.	6282	Sti
FedEx Corporation	Air Transport Services Group, Inc.	4513	Su
Fidelity National Information Services, Inc.	Gaiam Inc.	7389	Su
Fifth Third Bancorp	Associated Banc-Corp	6711	SU
First Horizon National Corp.	TCF Financial Corporation	6021	Sy
First Solar, Inc.	Amkor Technology, Inc.	3674	Sy
FirstEnergy Corp.	Hawaiian Electric Industries Inc.	4911	T.
Fiserv, Inc.	Ultimate Software Group, Inc.	7370	Та
FLIR Systems, Inc.	Trimble Navigation Limited	3810	TE
Flowserve Corp.	Ampco-Pittsburgh Corp.	3561	Те
FMC Corp.	Dril-Quip, Inc.	3533	Те
FMC Technologies, Inc.	Tesco Corporation	3533	Те
Ford Motor Co.	Spartan Motors Inc.	3711	Te
Forest Laboratories Inc.	Dynavax Technologies Corporation	2834	Те
Fortune Brands Inc.	OmegaFlex, Inc.	343	Те
Franklin Resources Inc.	Piper Jaffray Companies	6282	Te
Freeport-McMoRan Copper & Gold Inc.	Coeur d'Alene Mines Corporation	1041	Th
Frontier Communications Corporation	Equinix, Inc.	4813	Th
GameStop Corp.	Williams-Sonoma Inc.	57	Th Cc
Gannett Co., Inc.	Journal Communications Inc.	2711	Th
Gap Inc.	Stage Stores Inc.	5651	Th
General Dynamics Corp.	TAL International Group, Inc.	3731	Th
General Electric Co.	Dresser-Rand Group Inc.	3511	Th
General Mills, Inc.	Smart Balance, Inc	20	Th
Seneral hims, me.	Sinare Banaree, ine	20	Co
Genuine Parts Company	American Axle & Manufacturing Holdings Inc.	5013	Th
Genworth Financial Inc.	CNO Financial Group, Inc.	6311	Th
Genzyme Corp.	ViroPharma Inc.	2830	Th
Gilead Sciences Inc.	Human Genome Sciences Inc.	2830	Th
	Orbital Sciences Corp.	3761	Th
Goodrich Corp.			Th
Goodrich Corp. Goodyear Tire & Rubber Co.	Cooper Tire & Rubber Co.	3011	
	Cooper Tire & Rubber Co. Sourcefire, Inc.	7375	Th
Goodyear Tire & Rubber Co. Google Inc.	Sourcefire, Inc.		Th Ti
Goodyear Tire & Rubber Co.	Sourcefire, Inc. American Capital, Ltd. Complete Production Services,	7375	
Goodyear Tire & Rubber Co. Google Inc. H&R Block, Inc.	Sourcefire, Inc. American Capital, Ltd.	7375 6159	Ti
Goodyear Tire & Rubber Co. Google Inc. H&R Block, Inc. Halliburton Company	Sourcefire, Inc. American Capital, Ltd. Complete Production Services, Inc.	7375 6159 1389	Ti Ti

Spectra Energy Corp.	Berry Petroleum Co. National Fuel Gas Co.	131 492
Sprint Nextel Corp.	Terremark Worldwide, Inc.	481
St. Jude Medical Inc.	Stereotaxis Inc.	384
Stanley Black & Decker, Inc.	Gulf Island Fabrication Inc.	34
Staples, Inc.	Books-A-Million Inc.	594
Starbucks Corporation	The Cheesecake Factory	5810
Starwood Hotels & Resorts Worldwide Inc.	Incorporated Orient-Express Hotels Ltd.	701
State Street Corp.	Oriental Financial Group Inc.	6022
Stericycle, Inc.	Casella Waste Systems Inc.	495
		.,,,
Stryker Corp.	NewMarket Corp.	384
Sunoco, Inc.	Owens Corning	29
SunTrust Banks, Inc.	Nara Bancorp Inc.	602
SUPERVALU Inc.	Nash Finch Co.	514
Symantec Corporation	Sapient Corp.	7370
Sysco Corp.	United Natural Foods, Inc.	514
T. Rowe Price Group, Inc.	Penson Worldwide Inc	621
Target Corp.	99¢ Only Stores	533
TECO Energy, Inc.	PNM Resources, Inc.	491
Tellabs Inc.	Brush Engineered Materials Inc.	366
Tenet Healthcare Corp.	Health Management Associates Inc.	806
Teradata Corporation	Cray Inc.	357
Teradyne Inc.	Consolidated Tomoka Land Co.	382
Tesoro Corporation	CVR Energy, Inc.	291
Texas Instruments Inc.	RadiSys Corporation	367
Textron Inc.	Spirit AeroSystems Holdings Inc	372
The AES Corporation	Headwaters Inc.	491
The Allstate Corporation	Horace Mann Educators Corp.	633
The Bank of New York Mellon Corporation	Heartland Financial USA Inc.	602
The Chubb Corporation	National Interstate Corporation	633
The Coca-Cola Company	MGP Ingredients Inc.	208
The Coea-Cola Company	Hexcel Corp.	
The Dow Chemical Company		282
	Astoria Financial Corporation	
The Dow Chemical Company The Goldman Sachs Group, Inc. The Interpublic Group of	Astoria Financial Corporation Clear Channel Outdoor	
The Dow Chemical Company The Goldman Sachs Group, Inc.	Astoria Financial Corporation	671 731
The Dow Chemical Company The Goldman Sachs Group, Inc. The Interpublic Group of Companies, Inc.	Astoria Financial Corporation Clear Channel Outdoor Holdings Inc.	671 731 203
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The Dow Chemical Company The Goldman Sachs Group, Inc. The Interpublic Group of Companies, Inc. The J. M. Smucker Company The Kroger Co. The McGraw-Hill Companies, Inc. The TJX Companies, Inc. The Travelers Companies, Inc.	Astoria Financial Corporation Clear Channel Outdoor Holdings Inc. Del Monte Foods Co. Winn-Dixie Stores Inc. The Knot, Inc. Citi Trends PICO Holdings Inc.	6712 731 2032 541 273 56 633
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Hartford Financial Services Group Inc.	CNA Financial Corporation	6331
Hasbro Inc.	LeapFrog Enterprises Inc.	3944
HCP, Inc.	Macerich Co.	6798
Health Care REIT Inc.	Ashford Hospitality Trust Inc.	6798
Helmerich & Payne Inc.	Warren Resources Inc.	1311
Hershey Co.	Ralcorp Holdings Inc.	2066
Hess Corporation	Frontier Oil Corp.	2911
Hewlett-Packard Company	Silicon Graphics International Corp.	3571
HJ Heinz Co.	B&G Foods Inc.	2033
Honeywell International Inc.	LMI Aerospace Inc.	372
Hormel Foods Corp.	Smithfield Foods Inc.	201
Hospira Inc.	Medifast Inc.	2834
Host Hotels & Resorts Inc.	Sunstone Hotel Investors Inc.	7011
Hudson City Bancorp, Inc.	Flushing Financial Corp.	6030
Humana Inc.	HealthSpring Inc.	6324
Huntington Bancshares Inc.	West Coast Bancorp	6020
Illinois Tool Works Inc.	Kulicke & Soffa Industries Inc.	356
		3564
Ingersoll-Rand Plc	Lydall Inc.	3304
Integrys Energy Group, Inc.	Black Hills Corporation	4931
Intel Corporation	CTS Corporation	3679
IntercontinentalExchange, Inc.	Harris & Harris Group, Inc.	679
International Business Machines Corp.	Super Micro Computer, Inc.	3571
International Flavors & Fragrances Inc.	Lubrizol Corporation	2865
International Game Technology	Las Vegas Sands Corp.	7999
International Paper Co.	Verso Paper Corp.	2621
Intuit Inc.	Bottomline Technologies Inc.	7370
Intuitive Surgical, Inc.	Hansen Medical, Inc.	3842
Invesco Ltd.	Eaton Vance Corp.	6282
Iron Mountain Inc.	Arkansas Best Corporation	42
ITT Corporation	Colfax Corporation	3561
J. C. Penney Company, Inc.	Retail Ventures Inc.	5311
Jabil Circuit Inc.	Sanmina-SCI Corp.	3672
Jacobs Engineering Group Inc.	McDermott International Inc.	8711
Janus Capital Group Inc.	Pzena Investment Management, Inc	6282
JDS Uniphase Corporation	Fairchild Semiconductor International Inc.	3674
Johnson & Johnson	Salix Pharmaceuticals Ltd.	2834
Johnson Controls Inc.	BE Aerospace Inc.	2531
JPMorgan Chase & Co.	NGP Capital Resources Company	6726
Juniper Networks, Inc.	VMware, Inc.	7379
Kellogg Company	Corn Products International Inc.	204
KeyCorp	Texas Capital BancShares Inc.	6021
Kimberly-Clark Corporation	Buckeye Technologies Inc.	26
Kimco Realty Corporation	SL Green Realty Corp.	
		6798
KLA-Tencor Corporation	Microvision Inc.	3827
Kohl's Corp.	Bon-Ton Stores Inc.	531
Kraft Foods Inc.	J&J Snack Foods Corp.	2052
L-3 Communications Holdings Inc.	Ener1, Inc.	3669

Total System Services, Inc.	Marchex, Inc.	7389
Tyco International Ltd.	Hutchinson Technology Inc.	3679
Tyson Foods Inc.	Sanderson Farms, Inc.	2015
U.S. Bancorp	Privatebancorp Inc.	602
Union Pacific Corporation	Genesee & Wyoming Inc.	4011
United Parcel Service, Inc.	Dynamex Inc.	4215
United States Steel Corp.	Commercial Metals Company	3312
United Technologies Corp.	Triumph Group, Inc.	372
Unitedhealth Group, Inc.	Health Net Inc.	6324
Unum Group	StanCorp Financial Group Inc.	6321
Urban Outfitters Inc.	Casual Male Retail Group, Inc.	5650
V.F. Corporation	Quiksilver Inc.	232
Valero Energy Corp.	Alon USA Energy, Inc.	2911
Varian Medical Systems Inc.	Cynosure, Inc.	3845
Ventas, Inc.	FelCor Lodging Trust Inc.	6798
VeriSign Inc.	Cadence Design Systems Inc.	7372
Verizon Communications Inc.	Valmont Industries, Inc.	4813
Visa, Inc.	Asset Acceptance Capital	6153
v 15u, 110.	Corp.	0100
Vornado Realty Trust	Pennsylvania Real Estate Investment Trust	6798
Vulcan Materials Company	USEC Inc.	142
W.W. Grainger, Inc.	Houston Wire & Cable Company	5063
Walgreen Co.	PetMed Express Inc.	5912
Wal-Mart Stores Inc.	Dollar Tree, Inc.	5331
Walt Disney Co.	Ameristar Casinos Inc.	799
Waste Management, Inc.	US Ecology, Inc.	4953
Waters Corp.	Bruker Corporation	3826
Watson Pharmaceuticals Inc.	Orexigen Therapeutics, Inc.	2834
WellPoint Inc.	LHC Group, Inc.	8082
Wells Fargo & Company	CenterState Banks, Inc.	6021
Western Digital Corp.	Seagate Technology PLC	3572
Western Union Co.	Dollar Financial Corp.	6099
Weyerhaeuser Co.	Deltic Timber Corp.	24
Whirlpool Corp.	Helen of Troy Limited	363
Whole Foods Market, Inc.	Ruddick Corp.	541
Williams Companies, Inc.	ATRION Corp.	492
Windstream Corporation	PAETEC Holding Corp.	4813
Wisconsin Energy Corp.	Central Vermont Public Service Corp.	4911
Wyndham Worldwide Corporation	MGM Resorts International	7011
Wynn Resorts Ltd.	Empire Resorts Inc.	7990
Xcel Energy Inc.	NSTAR	4911
Xerox Corp.	3D Systems Corp.	3577
Xilinx Inc.	RF Micro Devices Inc.	3670
XL Group plc	PMI Group Inc.	6351
Yahoo! Inc.	WebMD Health Corp.	7375
Yum! Brands, Inc.	DineEquity, Inc.	5812
Zimmer Holdings, Inc.	Wright Medical Group Inc.	3842
Zions Bancorp.	East West Bancorp, Inc.	6020
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# APPENDIX: Pair: Market Cap Portfolio

S&P	Matched Pair	SIC Match
3M Co.	Nalco Holding Co.	3841
Abbott Laboratories	Endo Pharmaceuticals Holdings Inc.	2834
Abercrombie & Fitch Co.	Zumiez, Inc.	56
ACE Limited	Axis Capital Holdings Ltd.	6331
Adobe Systems Inc.	Concur Technologies, Inc.	7370
Advanced Micro Devices, Inc.	Atheros Communications Inc.	3674
Aetna Inc.	WellCare Health Plans, Inc.	6324
AFLAC Inc.	PartnerRe Ltd.	6321
Agilent Technologies Inc.	FormFactor Inc.	3825
Air Products & Chemicals Inc.	Calgon Carbon Corporation	2813
Airgas Inc.	Acuity Brands, Inc.	5169
AK Steel Holding Corporation	Quanex Building Products Corporation	3312
Akamai Technologies Inc.	SXC Health Solutions, Corp.	7372
Alcoa, Inc.	Kaiser Aluminum Corporation	3334
Allegheny Energy Inc.	Empire District Electric Co.	4911
Allegheny Technologies Inc.	Texas Industries Inc.	3312
Allergan Inc.	Salix Pharmaceuticals Ltd.	2834
Altera Corp.	Silicon Laboratories Inc.	3670
Amazon.com Inc.	Synopsys Inc.	7370
Ameren Corporation	Black Hills Corporation	4931
American Electric Power Co., Inc.	ITC Holdings Corp.	4911
American Express Company	City National Corp.	6712
American International Group, Inc.	CNA Financial Corporation	6331
American Tower Corp.	AboveNet, Inc.	4899
Ameriprise Financial Inc.	CapitalSource Inc.	6141
AmerisourceBergen Corporation	Elizabeth Arden, Inc.	5122
Amgen Inc.	Vertex Pharmaceuticals Incorporated	2830
Amphenol Corporation	Thomas & Betts Corp.	3678
Anadarko Petroleum Corporation	EXCO Resources Inc.	1311
Analog Devices Inc.	Skyworks Solutions Inc.	3674
Aon Corporation	StanCorp Financial Group Inc.	6321
Apache Corp.	Continental Resources Inc.	1311
Apartment Investment & Management Co.	Camden Property Trust	6798
Apollo Group Inc.	Career Education Corp.	8200
Apple Inc.	Super Micro Computer, Inc.	3571
Applied Materials Inc.	Cymer Inc.	3550
Archer Daniels Midland Company	Darling International Inc.	207
Assurant Inc.	Markel Corp.	6331
AT&T, Inc.	Virgin Media, Inc.	4813
Autodesk, Inc.	Syntel, Inc.	7370

S&P	Matched Pair	SIC Mate
L-3 Communications Holdings Inc.	Ener1, Inc.	3669
Laboratory Corp. of America Holdings	Genoptix, Inc.	8071
Legg Mason Inc.	Raymond James Financial Inc.	6211
Leggett & Platt, Incorporated	Tempur Pedic International Inc.	2515
Leucadia National Corp.	Louisiana-Pacific Corp.	242
Lexmark International Inc.	Aruba Networks, Inc.	3577
Life Technologies Corporation	Integra LifeSciences Holdings Corporation	2836
Limited Brands, Inc.	Dillard's Inc.	5621
Lincoln National Corp.	American National Insurance Co.	6311
Linear Technology Corp.	Atmel Corporation	3670
Lockheed Martin Corporation	Lear Corp.	37
Lowe's Companies Inc.	Lumber Liquidators Holdings, Inc.	5211
LSI Corporation	Cypress Semiconductor Corporation	3674
M&T Bank Corp.	Signature Bank	6022
Macy's, Inc.	Retail Ventures Inc.	5311
Marathon Oil Corporation	Questar Corporation	1321
Marriott International. Inc.	MGM Resorts International	7011
Marsh & McLennan Companies, Inc.	Assured Guaranty Ltd.	6351
Marshall & Ilsley Corporation	Texas Capital BancShares Inc.	6021
Masco Corporation	American Woodmark Corp.	243
Massey Energy Co.	Arch Coal Inc.	1221
Mastercard Incorporated	IHS Inc.	7389
Mattel Inc.	JAKKS Pacific, Inc.	3942
McAfee, Inc.	Blackboard Inc.	7372
McDonald's Corp.	Brinker International Inc.	5812
McKesson Corporation	Herbalife Ltd.	5122
Mead Johnson Nutrition Company	MannKind Corp.	2834
MeadWestvaco Corporation	Domtar Corporation	2621
MedcoHealth Solutions Inc.	Drugstore.com Inc.	591
Medtronic, Inc.	Teleflex Incorporated	3841
MEMC Electronic Materials Inc.	Amkor Technology, Inc.	3674
Merck & Co. Inc.	King Pharmaceuticals Inc.	2834
MetLife, Inc.	Brown & Brown Inc.	6411
MetroPCS Communications, Inc.	NII Holdings Inc.	4812
Microchip Technology Inc.	PMC-Sierra Inc.	3670
Micron Technology Inc.	AVX Corp.	3674
	Activision Blizzard, Inc.	7370
Microsoft Corporation Molex Inc.	American Superconductor Corporation	3670
Microsoft Corporation		3670 208

Automatic Data Processing, Inc.	Rackspace Hosting, Inc	7374
AutoNation Inc.	Penske Automotive Group, Inc.	5511
AutoZone Inc.	Pep Boys - Manny, Moe & Jack	5531
Avalonbay Communities Inc.	Macerich Co.	6798
Avery Dennison Corporation	Presstek Inc.	275
Avon Products Inc.	AptarGroup, Inc.	2844
Baker Hughes Incorporated	Oil States International Inc.	3533
Ball Corporation	Crown Holdings Inc.	3411
Bank of America Corporation	TCF Financial Corporation	6021
Baxter International Inc.	W.R. Grace & Co.	3841
BB & T Corp.	Westamerica Bancorp.	602
Becton, Dickinson and	Hill-Rom Holdings, Inc.	3841
Company		
Bed Bath & Beyond, Inc.	Williams-Sonoma Inc.	57
		26
Bemis Company, Inc.	Clearwater Paper Corporation	20
Best Buy Co. Inc.	hhgregg, Inc.	5731
Biogen Idec Inc.	Perrigo Co.	2830
BMC Software Inc.	Cadence Design Systems Inc.	7372
Boeing Co.	AAR Corp.	3721
Boston Properties Inc.	Liberty Property Trust	6798
Boston Scientific Corporation	Haemonetics Corp.	3841
Bristol-Myers Squibb Company	Medicis Pharmaceutical Corp.	2834
Broadcom Corp.	Cree Inc.	3670
CA Technologies	Nuance Communications, Inc.	7372
Cablevision Systems Corporation	LodgeNet Interactive Corporation	4841
Cabot Oil & Gas Corporation	SandRidge Energy, Inc.	1311
Cameron International Corporation	Dynamic Materials Corp.	349
Campbell Soup Co.	Lancaster Colony Corporation	203
Capital One Financial Corp.	Credit Acceptance Corp.	6141
Cardinal Health, Inc.	Nu Skin Enterprises Inc.	5122
CarMax Inc.	Group 1 Automotive Inc.	55
Carnival Corporation	Royal Caribbean Cruises Ltd.	4481
Caterpillar Inc.	Martin Marietta Materials Inc.	3531
CB Richard Ellis Group, Inc.	Alexandria Real Estate Equities Inc.	6798
Celgene Corporation	HB Fuller Co.	289
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CenterPoint Energy, Inc.	El Paso Electric Co.	4911
CenturyLink, Inc.	TW Telecom Inc.	4813
Cephalon Inc.	IDEXX Laboratories, Inc.	2830
Cerner Corp.	MICROS Systems, Inc.	7373
CF Industries Holdings, Inc.	LSB Industries Inc.	2873
CH Robinson Worldwide Inc.	UTi Worldwide Inc.	4731
Charles Schwab Corp.	Jefferies Group Inc.	6211
Chesapeake Energy Corporation	Plains Exploration & Production Company	1311
Chevron Corp.	Frontier Oil Corp.	2911
CIGNA Corporation	AMERIGROUP Corporation	6324
Cincinnati Financial Corp.	Harleysville Group Inc.	6330
Cintas Corporation	Perry Ellis International Inc.	2320
Cisco Systems, Inc.	Marvell Technology Group Ltd.	3674
Citigroup, Inc.	FirstMerit Corporation	6021
Citrix Systems, Inc.	Tibco Software, Inc.	7370
Cliffs Natural Resources Inc.	Hecla Mining Co.	10

Monster Worldwide, Inc.	Valassis Communications Inc.	731
Morgan Stanley	Washington Federal Inc.	6712
Murphy Oil Corporation	Owens Corning	29
Mylan, Inc.	Par Pharmaceutical Companies Inc.	2834
Nabors Industries Ltd.	Atwood Oceanics, Inc.	1381
Nasdaq OMX Group Inc.	GFI Group Inc.	6200
National Oilwell Varco, Inc.	Dril-Quip, Inc.	3533
National Semiconductor	International Rectifier	3674
Corporation	Corporation	
NetApp, Inc.	Brocade Communications Systems, Inc.	3572
Netflix, Inc.	Lions Gate Entertainment Corp.	78
Newell Rubbermaid Inc.	Jarden Corp.	3089
Newfield Exploration Co.	Forest Oil Corp.	1311
Newmont Mining Corp.	Allied Nevada Gold Corp.	1041
News Corp.	The New York Times	2711
*	Company	
Nicor Inc.	Atmos Energy Corporation	4924
Nike Inc.	GSI Commerce Inc.	3021
NiSource Inc.	CH Energy Group Inc.	4931
Noble Energy, Inc.	Cleco Corporation	4931
Nordstrom Inc.	Stage Stores Inc.	5651
Northeast Utilities	Otter Tail Corporation	4911
Northern Trust Corporation	BOK Financial Corp.	6020
Northrop Grumman Corporation	Garmin Ltd.	3812
Novell Inc.	JDA Software Group Inc.	7370
Novellus Systems, Inc.	Century Aluminum Co.	3350
NRG Energy, Inc.	UIL Holdings Corporation	4911
Nucor Corporation	Commercial Metals Company	3312
NVIDIA Corporation	Rambus Inc.	3670
NYSE Euronext, Inc.	TD AMERITRADE Holding Corporation	62
Occidental Petroleum Corporation	Ultra Petroleum Corp.	1311
	Lamar Advertising Co.	731
Omnicom Group Inc. ONEOK Inc.	Lamar Advertising Co. WGL Holdings Inc.	731 4923
Omnicom Group Inc.	Lamar Advertising Co. WGL Holdings Inc. Ansys, Inc.	
Omnicom Group Inc. ONEOK Inc.	WGL Holdings Inc.	4923
Omnicom Group Inc. ONEOK Inc. Oracle Corp.	WGL Holdings Inc. Ansys, Inc. U.S. Auto Parts Network, Inc.	4923 7370
Omnicom Group Inc. ONEOK Inc. Oracle Corp. O'Reilly Automotive Inc. Owens-Illinois, Inc.	WGL Holdings Inc. Ansys, Inc. U.S. Auto Parts Network, Inc. Apogee Enterprises, Inc.	4923 7370 553 32
Omnicom Group Inc. ONEOK Inc. Oracle Corp. O'Reilly Automotive Inc. Owens-Illinois, Inc. PACCAR Inc.	WGL Holdings Inc. Ansys, Inc. U.S. Auto Parts Network, Inc. Apogee Enterprises, Inc. Federal Signal Corp.	4923 7370 553
Omnicom Group Inc. ONEOK Inc. Oracle Corp. O'Reilly Automotive Inc. Owens-Illinois, Inc. PACCAR Inc. Pall Corp.	WGL Holdings Inc. Ansys, Inc. U.S. Auto Parts Network, Inc. Apogee Enterprises, Inc. Federal Signal Corp. Kulicke & Soffa Industries Inc.	4923 7370 553 32 3711
Omnicom Group Inc. ONEOK Inc. Oracle Corp. O'Reilly Automotive Inc. Owens-Illinois, Inc. PACCAR Inc. Pall Corp. Parker Hannifin Corporation	WGL Holdings Inc. Ansys, Inc. U.S. Auto Parts Network, Inc. Apogee Enterprises, Inc. Federal Signal Corp.	4923 7370 553 32 3711 356 349
Omnicom Group Inc. ONEOK Inc. Oracle Corp. O'Reilly Automotive Inc. Owens-Illinois, Inc. PACCAR Inc. Pall Corp. Parker Hannifin Corporation Patterson Companies Inc.	<ul> <li>WGL Holdings Inc.</li> <li>Ansys, Inc.</li> <li>U.S. Auto Parts Network, Inc.</li> <li>Apogee Enterprises, Inc.</li> <li>Federal Signal Corp.</li> <li>Kulicke &amp; Soffa Industries Inc.</li> <li>Sun Hydraulics Corp.</li> <li>PetSmart, Inc.</li> </ul>	4923 7370 553 32 3711 356
Omnicom Group Inc. ONEOK Inc. Oracle Corp. O'Reilly Automotive Inc. Owens-Illinois, Inc. PACCAR Inc. Pall Corp. Parker Hannifin Corporation Patterson Companies Inc. Paychex Inc.	WGL Holdings Inc. Ansys, Inc. U.S. Auto Parts Network, Inc. Apogee Enterprises, Inc. Federal Signal Corp. Kulicke & Soffa Industries Inc. Sun Hydraulics Corp. PetSmart, Inc. URS Corporation	4923 7370 553 32 3711 356 349 5990 87
Omnicom Group Inc. ONEOK Inc. Oracle Corp. O'Reilly Automotive Inc. Owens-Illinois, Inc. PACCAR Inc. Pall Corp. Parker Hannifin Corporation Patterson Companies Inc.	WGL Holdings Inc. Ansys, Inc. U.S. Auto Parts Network, Inc. Apogee Enterprises, Inc. Federal Signal Corp. Kulicke & Soffa Industries Inc. Sun Hydraulics Corp. PetSmart, Inc. URS Corporation Alpha Natural Resources, Inc. New York Community	4923 7370 553 32 3711 356 349 5990
Omnicom Group Inc. ONEOK Inc. Oracle Corp. O'Reilly Automotive Inc. Owens-Illinois, Inc. PACCAR Inc. Pall Corp. Parker Hannifin Corporation Patterson Companies Inc. Paychex Inc. Peabody Energy Corp.	WGL Holdings Inc. Ansys, Inc. U.S. Auto Parts Network, Inc. Apogee Enterprises, Inc. Federal Signal Corp. Kulicke & Soffa Industries Inc. Sun Hydraulics Corp. PetSmart, Inc. URS Corporation Alpha Natural Resources, Inc.	4923 7370 553 32 3711 356 349 5990 87 1221
Omnicom Group Inc. ONEOK Inc. Oracle Corp. O'Reilly Automotive Inc. Owens-Illinois, Inc. PACCAR Inc. Pall Corp. Parker Hannifin Corporation Patterson Companies Inc. Paychex Inc. Peabody Energy Corp. People's United Financial Inc. Pepco Holdings, Inc.	WGL Holdings Inc. Ansys, Inc. U.S. Auto Parts Network, Inc. Apogee Enterprises, Inc. Federal Signal Corp. Kulicke & Soffa Industries Inc. Sun Hydraulics Corp. PetSmart, Inc. URS Corporation Alpha Natural Resources, Inc. New York Community Bancorp Inc. Vectren Corporation	4923 7370 553 32 3711 356 349 5990 87 1221 6036 493
Omnicom Group Inc. ONEOK Inc. Oracle Corp. O'Reilly Automotive Inc. Owens-Illinois, Inc. PACCAR Inc. Pall Corp. Parker Hannifin Corporation Patterson Companies Inc. Paychex Inc. Peabody Energy Corp. People's United Financial Inc.	<ul> <li>WGL Holdings Inc.</li> <li>Ansys, Inc.</li> <li>U.S. Auto Parts Network, Inc.</li> <li>Apogee Enterprises, Inc.</li> <li>Federal Signal Corp.</li> <li>Kulicke &amp; Soffa Industries Inc.</li> <li>Sun Hydraulics Corp.</li> <li>PetSmart, Inc.</li> <li>URS Corporation</li> <li>Alpha Natural Resources, Inc.</li> <li>New York Community</li> <li>Bancorp Inc.</li> <li>Vectren Corporation</li> <li>M&amp;F Worldwide Corp.</li> <li>Mettler-Toledo International,</li> </ul>	4923 7370 553 32 3711 356 349 5990 87 1221 6036
Omnicom Group Inc. ONEOK Inc. Oracle Corp. O'Reilly Automotive Inc. Owens-Illinois, Inc. PACCAR Inc. Pall Corp. Parker Hannifin Corporation Patterson Companies Inc. Paychex Inc. Peabody Energy Corp. People's United Financial Inc. Pepco Holdings, Inc. Pepsico, Inc. PerkinElmer Inc.	<ul> <li>WGL Holdings Inc.</li> <li>Ansys, Inc.</li> <li>U.S. Auto Parts Network, Inc.</li> <li>Apogee Enterprises, Inc.</li> <li>Federal Signal Corp.</li> <li>Kulicke &amp; Soffa Industries Inc.</li> <li>Sun Hydraulics Corp.</li> <li>PetSmart, Inc.</li> <li>URS Corporation</li> <li>Alpha Natural Resources, Inc.</li> <li>New York Community</li> <li>Bancorp Inc.</li> <li>Vectren Corporation</li> <li>M&amp;F Worldwide Corp.</li> <li>Mettler-Toledo International, Inc.</li> </ul>	4923 7370 553 32 3711 356 349 5990 87 1221 6036 493 2086 3826
Omnicom Group Inc. ONEOK Inc. Oracle Corp. O'Reilly Automotive Inc. Owens-Illinois, Inc. PACCAR Inc. Pall Corp. Parker Hannifin Corporation Patterson Companies Inc. Paychex Inc. Peabody Energy Corp. People's United Financial Inc. Pepco Holdings, Inc. Pepsico, Inc. PerkinElmer Inc.	<ul> <li>WGL Holdings Inc.</li> <li>Ansys, Inc.</li> <li>U.S. Auto Parts Network, Inc.</li> <li>Apogee Enterprises, Inc.</li> <li>Federal Signal Corp.</li> <li>Kulicke &amp; Soffa Industries Inc.</li> <li>Sun Hydraulics Corp.</li> <li>PetSmart, Inc.</li> <li>URS Corporation</li> <li>Alpha Natural Resources, Inc.</li> <li>New York Community</li> <li>Bancorp Inc.</li> <li>Vectren Corporation</li> <li>M&amp;F Worldwide Corp.</li> <li>Mettler-Toledo International, Inc.</li> <li>Dendreon Corp.</li> </ul>	4923 7370 553 32 3711 356 349 5990 87 1221 6036 493 2086 3826 2834
Omnicom Group Inc. ONEOK Inc. Oracle Corp. O'Reilly Automotive Inc. Owens-Illinois, Inc. PACCAR Inc. Pall Corp. Parker Hannifin Corporation Patterson Companies Inc. Paychex Inc. Peabody Energy Corp. People's United Financial Inc. Pepco Holdings, Inc. Pepsico, Inc. Perkine Inc. Pfizer Inc. PG & E Corp.	WGL Holdings Inc. Ansys, Inc. U.S. Auto Parts Network, Inc. Federal Signal Corp. Kulicke & Soffa Industries Inc. Sun Hydraulics Corp. PetSmart, Inc. URS Corporation Alpha Natural Resources, Inc. New York Community Bancorp Inc. Vectren Corporation M&F Worldwide Corp. Mettler-Toledo International, Inc. Dendreon Corp. DPL Inc.	4923 7370 553 32 3711 356 349 5990 87 1221 6036 493 2086 3826 2834 4911
Omnicom Group Inc. ONEOK Inc. Oracle Corp. O'Reilly Automotive Inc. Owens-Illinois, Inc. PACCAR Inc. Pall Corp. Parker Hannifin Corporation Patterson Companies Inc. Paychex Inc. Peabody Energy Corp. People's United Financial Inc. Pepco Holdings, Inc. Pepsico, Inc. PerkinElmer Inc. Pfizer Inc. PG & E Corp. Philip Morris International, Inc.	WGL Holdings Inc. Ansys, Inc. U.S. Auto Parts Network, Inc. Federal Signal Corp. Kulicke & Soffa Industries Inc. Sun Hydraulics Corp. PetSmart, Inc. URS Corporation Alpha Natural Resources, Inc. New York Community Bancorp Inc. Vectren Corporation M&F Worldwide Corp. Mettler-Toledo International, Inc. Dendreon Corp. DPL Inc. Vector Group Ltd.	4923 7370 553 32 3711 356 349 5990 87 1221 6036 493 2086 3826 2834 4911 2111
Omnicom Group Inc. ONEOK Inc. Oracle Corp. O'Reilly Automotive Inc. Owens-Illinois, Inc. PACCAR Inc. Pall Corp. Parker Hannifin Corporation Patterson Companies Inc. Paychex Inc. Peabody Energy Corp. People's United Financial Inc. Pepco Holdings, Inc. Pepsico, Inc. PerkinElmer Inc. Pfizer Inc. PG & E Corp. Philip Morris International, Inc. Pinnacle West Capital Corp.	WGL Holdings Inc. Ansys, Inc. U.S. Auto Parts Network, Inc. Federal Signal Corp. Kulicke & Soffa Industries Inc. Sun Hydraulics Corp. PetSmart, Inc. URS Corporation Alpha Natural Resources, Inc. New York Community Bancorp Inc. Vectren Corporation M&F Worldwide Corp. Mettler-Toledo International, Inc. Dendreon Corp. DPL Inc. Vector Group Ltd. Headwaters Inc.	4923         7370         553         32         3711         356         349         5990         87         1221         6036         493         2086         3826         2834         4911         2111         4911
Omnicom Group Inc. ONEOK Inc. Oracle Corp. O'Reilly Automotive Inc. Owens-Illinois, Inc. PACCAR Inc. Pall Corp. Parker Hannifin Corporation Patterson Companies Inc. Paychex Inc. Peabody Energy Corp. People's United Financial Inc. Pepco Holdings, Inc. Pepsico, Inc. PerkinElmer Inc. Pfizer Inc. PG & E Corp. Philip Morris International, Inc.	WGL Holdings Inc. Ansys, Inc. U.S. Auto Parts Network, Inc. Federal Signal Corp. Kulicke & Soffa Industries Inc. Sun Hydraulics Corp. PetSmart, Inc. URS Corporation Alpha Natural Resources, Inc. New York Community Bancorp Inc. Vectren Corporation M&F Worldwide Corp. Mettler-Toledo International, Inc. Dendreon Corp. DPL Inc. Vector Group Ltd.	4923 7370 553 32 3711 356 349 5990 87 1221 6036 493 2086 3826 2834 4911 2111

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Dean Foods Co. Deere & Company Dell Inc. Denbury Resources Inc. DENTSPLY International	Lifeway Foods Inc. CNH Global NV Itron, Inc. Atlas Energy, Inc.	202 3523 3570 1311
Dean Foods Co. Deere & Company Dell Inc. Denbury Resources Inc. DENTSPLY International Inc.	Lifeway Foods Inc. CNH Global NV Itron, Inc. Atlas Energy, Inc. CONMED Corporation Petrohawk Energy Corporation Corinthian Colleges Inc.	202 3523 3570 1311 3840
Dean Foods Co. Deere & Company Dell Inc. Denbury Resources Inc. DENTSPLY International Inc. Devon Energy Corporation	Lifeway Foods Inc. CNH Global NV Itron, Inc. Atlas Energy, Inc. CONMED Corporation Petrohawk Energy Corporation	202 3523 3570 1311 3840 1311
Dean Foods Co. Deere & Company Dell Inc. Denbury Resources Inc. DENTSPLY International Inc. Devon Energy Corporation DeVry, Inc. Diamond Offshore Drilling	Lifeway Foods Inc. CNH Global NV Itron, Inc. Atlas Energy, Inc. CONMED Corporation Petrohawk Energy Corporation Corinthian Colleges Inc.	202 3523 3570 1311 3840 1311 8249
Dean Foods Co. Deere & Company Dell Inc. Denbury Resources Inc. DENTSPLY International Inc. Devon Energy Corporation DeVry, Inc. Diamond Offshore Drilling Inc.	Lifeway Foods Inc. CNH Global NV Itron, Inc. Atlas Energy, Inc. CONMED Corporation Petrohawk Energy Corporation Corinthian Colleges Inc. Patterson-UTI Energy Inc.	202 3523 3570 1311 3840 1311 8249 1381
Dean Foods Co. Deere & Company Dell Inc. Denbury Resources Inc. DENTSPLY International Inc. Devon Energy Corporation DeVry, Inc. Diamond Offshore Drilling Inc. DIRECTV	Lifeway Foods Inc. CNH Global NV Itron, Inc. Atlas Energy, Inc. CONMED Corporation Petrohawk Energy Corporation Corinthian Colleges Inc. Patterson-UTI Energy Inc. Crown Castle International Corp.	202 3523 3570 1311 3840 1311 8249 1381 4899
Dean Foods Co. Deere & Company Dell Inc. Denbury Resources Inc. DENTSPLY International Inc. Devon Energy Corporation DeVry, Inc. Diamond Offshore Drilling Inc. DIRECTV DISCOVET Financial Services Dominion Resources, Inc.	Lifeway Foods Inc. CNH Global NV Itron, Inc. Atlas Energy, Inc. CONMED Corporation Petrohawk Energy Corporation Corinthian Colleges Inc. Patterson-UTI Energy Inc. Crown Castle International Corp. EZCORP Inc.	202 3523 3570 1311 3840 1311 8249 1381 4899 6141 4911 353
Dean Foods Co. Deere & Company Dell Inc. Denbury Resources Inc. DENTSPLY International Inc. Devon Energy Corporation DeVry, Inc. Diamond Offshore Drilling Inc. DIRECTV Discover Financial Services Dominion Resources, Inc.	Lifeway Foods Inc. CNH Global NV Itron, Inc. Atlas Energy, Inc. CONMED Corporation Petrohawk Energy Corporation Corinthian Colleges Inc. Patterson-UTI Energy Inc. Crown Castle International Corp. EZCORP Inc. NSTAR	202 3523 3570 1311 3840 1311 8249 1381 4899 6141 4911
Dean Foods Co. Deere & Company Dell Inc. Denbury Resources Inc. DENTSPLY International Inc. Devon Energy Corporation DeVry, Inc. Diamond Offshore Drilling Inc. DIRECTV DISCOVET Financial Services Dominion Resources, Inc.	Lifeway Foods Inc. CNH Global NV Itron, Inc. Atlas Energy, Inc. CONMED Corporation Petrohawk Energy Corporation Corinthian Colleges Inc. Patterson-UTI Energy Inc. Crown Castle International Corp. EZCORP Inc. NSTAR Lufkin Industries Inc.	202 3523 3570 1311 3840 1311 8249 1381 4899 6141 4911 353
Dean Foods Co. Deere & Company Dell Inc. Denbury Resources Inc. DENTSPLY International Inc. Devon Energy Corporation DeVry, Inc. Diamond Offshore Drilling Inc. DIRECTV Discover Financial Services Dominion Resources, Inc. Dover Corp. DR Horton Inc. Dr Pepper Snapple Group, Inc. DTE Energy Co.	Lifeway Foods Inc. CNH Global NV Itron, Inc. Atlas Energy, Inc. CONMED Corporation Petrohawk Energy Corporation Corinthian Colleges Inc. Patterson-UTI Energy Inc. Crown Castle International Corp. EZCORP Inc. NSTAR Lufkin Industries Inc. NVR Inc. MGP Ingredients Inc. PNM Resources, Inc.	202 3523 3570 1311 3840 1311 8249 1381 4899 6141 4911 353 1531
Dean Foods Co. Deere & Company Dell Inc. Denbury Resources Inc. DENTSPLY International Inc. Devon Energy Corporation DeVry, Inc. Diamond Offshore Drilling Inc. DIRECTV Discover Financial Services Dominion Resources, Inc. Dover Corp. DR Horton Inc. Dr Pepper Snapple Group, Inc.	Lifeway Foods Inc. CNH Global NV Itron, Inc. Atlas Energy, Inc. CONMED Corporation Petrohawk Energy Corporation Corinthian Colleges Inc. Patterson-UTI Energy Inc. Crown Castle International Corp. EZCORP Inc. NSTAR Lufkin Industries Inc. NVR Inc. MGP Ingredients Inc.	202 3523 3570 1311 3840 1311 8249 1381 4899 6141 4911 353 1531 208
Dean Foods Co. Deere & Company Dell Inc. Denbury Resources Inc. DENTSPLY International Inc. Devon Energy Corporation DeVry, Inc. Diamond Offshore Drilling Inc. DIRECTV Discover Financial Services Dominion Resources, Inc. Dover Corp. DR Horton Inc. Dr Pepper Snapple Group, Inc. DTE Energy Co.	Lifeway Foods Inc. CNH Global NV Itron, Inc. Atlas Energy, Inc. CONMED Corporation Petrohawk Energy Corporation Corinthian Colleges Inc. Patterson-UTI Energy Inc. Crown Castle International Corp. EZCORP Inc. NSTAR Lufkin Industries Inc. NVR Inc. MGP Ingredients Inc. PNM Resources, Inc.	202 3523 3570 1311 3840 1311 8249 1381 4899 6141 4911 353 1531 208 4911
Dean Foods Co. Deere & Company Dell Inc. Denbury Resources Inc. DENTSPLY International Inc. Devon Energy Corporation DeVry, Inc. Diamond Offshore Drilling Inc. DIRECTV Discover Financial Services Dominion Resources, Inc. Dover Corp. DR Horton Inc. Dr Pepper Snapple Group, Inc. DTE Energy Co. Duke Energy Corporation	Lifeway Foods Inc. CNH Global NV Itron, Inc. Atlas Energy, Inc. CONMED Corporation Petrohawk Energy Corporation Corinthian Colleges Inc. Patterson-UTI Energy Inc. Crown Castle International Corp. EZCORP Inc. NSTAR Lufkin Industries Inc. NVR Inc. MGP Ingredients Inc. PNM Resources, Inc. Alliant Energy Corporation	202 3523 3570 1311 3840 1311 8249 1381 4899 6141 4911 353 1531 208 4911 4911
Dean Foods Co. Deere & Company Dell Inc. Denbury Resources Inc. DENTSPLY International Inc. Devon Energy Corporation DeVry, Inc. Diamond Offshore Drilling Inc. DIRECTV Discover Financial Services Dominion Resources, Inc. Dover Corp. DR Horton Inc. Dr Pepper Snapple Group, Inc. DTE Energy Co. Duke Energy Corporation Eastman Chemical Co.	Lifeway Foods Inc. CNH Global NV Itron, Inc. Atlas Energy, Inc. CONMED Corporation Petrohawk Energy Corporation Corinthian Colleges Inc. Patterson-UTI Energy Inc. Crown Castle International Corp. EZCORP Inc. NSTAR Lufkin Industries Inc. NVR Inc. MGP Ingredients Inc. PNM Resources, Inc. Alliant Energy Corporation PolyOne Corporation BorgWarner Inc.	202 3523 3570 1311 3840 1311 8249 1381 4899 6141 4911 353 1531 208 4911 4911 2821
Dean Foods Co. Deere & Company Dell Inc. Denbury Resources Inc. DENTSPLY International Inc. Devon Energy Corporation DeVry, Inc. Diamond Offshore Drilling Inc. DIRECTV Discover Financial Services Dominion Resources, Inc. Dover Corp. DR Horton Inc. Dr Pepper Snapple Group, Inc. DTE Energy Co. Duke Energy Corporation Eastman Chemical Co. Eaton Corporation	Lifeway Foods Inc. CNH Global NV Itron, Inc. Atlas Energy, Inc. CONMED Corporation Petrohawk Energy Corporation Corinthian Colleges Inc. Patterson-UTI Energy Inc. Crown Castle International Corp. EZCORP Inc. NSTAR Lufkin Industries Inc. NVR Inc. MGP Ingredients Inc. PNM Resources, Inc. Alliant Energy Corporation PolyOne Corporation	202 3523 3570 1311 3840 1311 8249 1381 4899 6141 4911 353 1531 208 4911 4911 2821 3714
Dean Foods Co. Deere & Company Dell Inc. Denbury Resources Inc. DENTSPLY International Inc. Devon Energy Corporation DeVry, Inc. Diamond Offshore Drilling Inc. DIRECTV Discover Financial Services Dominion Resources, Inc. Dover Corp. DR Horton Inc. Dr Pepper Snapple Group, Inc. DTE Energy Co. Duke Energy Corporation Eastman Chemical Co. Eaton Corporation eBay Inc.	Lifeway Foods Inc. CNH Global NV Itron, Inc. Atlas Energy, Inc. CONMED Corporation Petrohawk Energy Corporation Corinthian Colleges Inc. Patterson-UTI Energy Inc. Crown Castle International Corp. EZCORP Inc. NSTAR Lufkin Industries Inc. NVR Inc. MGP Ingredients Inc. PNM Resources, Inc. Alliant Energy Corporation PolyOne Corporation BorgWarner Inc. Lender Processing Services, Inc. Arch Chemicals Inc. Portland General Electric	202 3523 3570 1311 3840 1311 8249 1381 4899 6141 4911 353 1531 208 4911 4911 2821 3714 7389
Dean Foods Co. Deere & Company Dell Inc. Denbury Resources Inc. DENTSPLY International Inc. Devon Energy Corporation DeVry, Inc. Diamond Offshore Drilling Inc. DIRECTV Discover Financial Services Dominion Resources, Inc. Dover Corp. DR Horton Inc. Dr Pepper Snapple Group, Inc. DTE Energy Co. Duke Energy Corporation Eastman Chemical Co. Eaton Corporation eBay Inc. Ecolab Inc.	Lifeway Foods Inc. CNH Global NV Itron, Inc. Atlas Energy, Inc. CONMED Corporation Petrohawk Energy Corporation Corinthian Colleges Inc. Patterson-UTI Energy Inc. Crown Castle International Corp. EZCORP Inc. NSTAR Lufkin Industries Inc. NVR Inc. MGP Ingredients Inc. PNM Resources, Inc. Alliant Energy Corporation PolyOne Corporation BorgWarner Inc. Lender Processing Services, Inc. Arch Chemicals Inc. Portland General Electric Company	202 3523 3570 1311 3840 1311 8249 1381 4899 6141 4911 353 1531 208 4911 4911 2821 3714 7389 2841
Dean Foods Co. Deere & Company Dell Inc. Denbury Resources Inc. DENTSPLY International Inc. Devon Energy Corporation DeVry, Inc. Diamond Offshore Drilling Inc. DIRECTV Discover Financial Services Dominion Resources, Inc. Dover Corp. DR Horton Inc. Dr Pepper Snapple Group, Inc. DTE Energy Co. Duke Energy Corporation Eastman Chemical Co. Eaton Corporation eBay Inc. Ecolab Inc. Edison International	Lifeway Foods Inc. CNH Global NV Itron, Inc. Atlas Energy, Inc. CONMED Corporation Petrohawk Energy Corporation Corinthian Colleges Inc. Patterson-UTI Energy Inc. Crown Castle International Corp. EZCORP Inc. NSTAR Lufkin Industries Inc. NVR Inc. MGP Ingredients Inc. PNM Resources, Inc. Alliant Energy Corporation PolyOne Corporation BorgWarner Inc. Lender Processing Services, Inc. Arch Chemicals Inc. Portland General Electric	202 3523 3570 1311 3840 1311 8249 1381 4899 6141 4911 353 1531 208 4911 4911 2821 3714 7389 2841 4911

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The Allstate Corporation	W.R. Berkley Corporation	6331
The Bank of New York Mellon	Bank of Hawaii Corporation	6022
Corporation	And Contration 111	(221
The Chubb Corporation	Arch Capital Group Ltd.	6331
The Coca-Cola Company	Wendy's/Arby's Group, Inc.	2086
The Dow Chemical Company	Hexcel Corp.	2821
The Goldman Sachs Group, Inc.	TFS Financial Corp	6712
The Interpublic Group of Companies, Inc.	Clear Channel Outdoor Holdings Inc.	731
The J. M. Smucker Company	B&G Foods Inc.	2033
The Kroger Co.	Ruddick Corp.	5411
The McGraw-Hill Companies, Inc.	The Knot, Inc.	2731
The TJX Companies, Inc.	J. Crew Group, Inc.	5651
The Travelers Companies, Inc.	Everest Re Group Ltd.	6331
The Washington Post Company	The Dolan Company	2711
Thermo Fisher Scientific, Inc.	Beckman Coulter Inc.	3829
Tiffany & Co.	Blue Nile Inc.	5944

Harman International Industries Inc.	Dolby Laboratories Inc.	3651	Time Warner Inc.	DreamWorks Animation SKG Inc.
Harris Corp.	InterDigital, Inc.	3663	Titanium Metals Corporation	RTI International Metals, Inc.
Hartford Financial Services Group Inc.	Transatlantic Holdings Inc.	6331	Torchmark Corp.	CNO Financial Group, Inc.
Hasbro Inc.	LeapFrog Enterprises Inc.	3944	Total System Services, Inc.	NeuStar, Inc.
HCP, Inc.	Digital Realty Trust Inc.	6798	Tyco International Ltd.	Supertex Inc.
Health Care REIT Inc.	Duke Realty Corp.	6798	Tyson Foods Inc.	Sanderson Farms, Inc.
Helmerich & Payne Inc.	Unit Corp.	1311	U.S. Bancorp	SVB Financial Group
Hershey Co.	Ralcorp Holdings Inc.	2066	Union Pacific Corporation	Kansas City Southern
Hess Corporation	CVR Energy, Inc.	2911	United Parcel Service, Inc.	Dynamex Inc.
Hewlett-Packard Company	Cray Inc.	3571	United States Steel Corp.	Carpenter Technology Corp.
HJ Heinz Co.	Del Monte Foods Co.	2033	United Technologies Corp.	LMI Aerospace Inc.
Honeywell International Inc.	Triumph Group, Inc.	372	United health Group, Inc.	Health Net Inc.
Hormel Foods Corp.	Smithfield Foods Inc.	201	Unum Group	Triple-S Management
1			-	Corporation
Hospira Inc.	Alnylam Pharmaceuticals, Inc.	2834	Urban Outfitters Inc.	Citi Trends
Host Hotels & Resorts Inc.	Choice Hotels International Inc.	7011	V.F. Corporation	Phillips-Van Heusen Corp.
Hudson City Bancorp, Inc.	Capitol Federal Financial, Inc.	6030	Valero Energy Corp.	Alon USA Energy, Inc.
Humana Inc.	HealthSpring Inc.	6324	Varian Medical Systems Inc.	Thoratec Corp.
Huntington Bancshares Inc.	Prosperity Bancshares Inc.	6020	Ventas, Inc.	Rayonier Inc.
Illinois Tool Works Inc.	Nordson Corporation	356	VeriSign Inc.	Pegasystems Inc.
Ingersoll-Rand Plc	Donaldson Company, Inc.	3564	Verizon Communications Inc.	Equinix, Inc.
Integrys Energy Group, Inc.	Clean Energy Fuels Corp.	493	Visa, Inc.	Portfolio Recovery Associates Inc.
Intel Corporation	Synaptics Inc.	3679	Vornado Realty Trust	Nationwide Health Properties Inc.
IntercontinentalExchange, Inc.	Harris & Harris Group, Inc.	679	Vulcan Materials Company	USEC Inc.
International Business Machines Corp.	Omnicell Inc.	3571	W.W. Grainger, Inc.	Anixter International Inc.
International Flavors & Fragrances Inc.	Lubrizol Corporation	2865	Walgreen Co.	PetMed Express Inc.
International Game Technology	Las Vegas Sands Corp.	7999	Wal-Mart Stores Inc.	Dollar Tree, Inc.
International Paper Co.	Sonoco Products Co.	2621	Walt Disney Co.	Empire Resorts Inc.
Intuit Inc.	Parametric Technology Corporation	7370	Waste Management, Inc.	Covanta Holding Corporation
Intuitive Surgical, Inc.	Edwards Lifesciences Corp.	3842	Waters Corp.	Illumina Inc.
Invesco Ltd.	Morningstar Inc.	6282	Watson Pharmaceuticals Inc.	AMAG Pharmaceuticals, Inc.
Iron Mountain Inc.	JB Hunt Transport Services Inc.	42	WellPoint Inc.	LHC Group, Inc.
ITT Corporation	IDEX Corporation	3561	Wells Fargo & Company	Cullen/Frost Bankers, Inc.
J. C. Penney Company, Inc.	School Specialty Inc.	531	Western Digital Corp.	STEC, Inc.
Jabil Circuit Inc.	Benchmark Electronics Inc.	3672	Western Union Co.	Euronet Worldwide Inc.
Jacobs Engineering Group	McDermott International Inc.	8711	Weyerhaeuser Co.	Deltic Timber Corp.
Inc.				
Janus Capital Group Inc.	Cohen & Steers Inc.	6282	Whirlpool Corp.	National Presto Industries Inc.
JDS Uniphase Corporation	Intersil Corporation	3674	Whole Foods Market, Inc.	Winn-Dixie Stores Inc.
Johnson & Johnson	Warner Chilcott plc	2834	Williams Companies, Inc.	ATRION Corp.
Johnson Controls Inc.	BE Aerospace Inc.	2531	Windstream Corporation	Atlantic Tele-Network, Inc.
JPMorgan Chase & Co.	BlackRock Kelso Capital Corporation	6726	Wisconsin Energy Corp.	Dynegy Inc.
Juniper Networks, Inc.	Accenture plc	7379	Wyndham Worldwide Corporation	Sunstone Hotel Investors Inc.
Kellogg Company	Smart Balance, Inc	20	Wynn Resorts Ltd.	Ameristar Casinos Inc.
KeyCorp	PacWest Bancorp	6021	Xcel Energy Inc.	IdaCorp, Inc.
Kimberly-Clark Corporation	Buckeye Technologies Inc.	26	Xerox Corp.	Zebra Technologies Corp.
Kimco Realty Corporation	Senior Housing Properties Trust	6798	Xilinx Inc.	QLogic Corp.
KLA-Tencor Corporation	Microvision Inc.	3827	XL Group plc	ProAssurance Corporation
			Yahoo! Inc.	
Kohl's Corp.	Stein Mart Inc.	5311	Yanoo! Inc.	Sourcefire, Inc.

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