Madison Strategic Sector Premium Fund Form N-CSRS August 28, 2014

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FORM N-CSR

CERTIFIED SHAREHOLDER REPORT OF REGISTERED

MANAGEMENT INVESTMENT COMPANIES

Investment Company Act file number 811-21713

Madison Strategic Sector Premium Fund

(Exact name of registrant as specified in charter)

550 Science Drive, Madison, WI 53711 (Address of principal executive offices)(Zip code)

W. Richard Mason
Madison Legal and Compliance Department
550 Science Drive
Madison, WI 53711
(Name and address of agent for service)

Registrant s telephone number, including area code: 608-274-0300

Date of fiscal year end: December 31

Date of reporting period: June 30, 2014

Form N-CSR is to be used by management investment companies to file reports with the Commission not later than 10 days after the transmission to stockholders of any report that is required to be transmitted to stockholders under Rule 30e-1 under the Investment Company Act of 1940 (17 CFR 270.30e-1). The Commission may use the information provided on Form N-CSR in its regulatory, disclosure review, inspection, and policymaking roles.

A registrant is required to disclose the information specified by Form N-CSR, and the Commission will make this information public. A registrant is not required to respond to the collection of information contained in Form N-CSR unless the Form displays a currently valid Office of Management and Budget (OMB) control number. Please direct comments concerning the accuracy of the information collection burden estimate and any suggestions for reducing the burden to Secretary, Securities and Exchange Commission, 450 Fifth Street, NW, Washington, DC 20549-0609. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. s 3507.

Semi-annual Report June 30, 2014

MADISON STRATEGIC SECTOR PREMIUM FUND (MSP)

Active Equity Management combined with a Covered Call Option Strategy

MSP | Madison Strategic Sector Premium Fund | June 30, 2014

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MSP | Madison Strategic Sector Premium Fund | June 30, 2014

Review of Period

What happened in the market during the first half of 2014?

The first half of 2014 was a positive period across the board for stocks and bonds. Investors showed considerable confidence with robust flows to domestic stocks, which were up 7.14% as measured by the S&P 500® Index. Smaller stocks also had positive results, with the Russell Midcap® Index advancing 8.67% and the Russell 2000® Index of small-cap stocks up 3.19%. International stocks were also up broadly, with the MSCI EAFE Index (net) up 4.78% and the Russell Emerging Markets® Index up 6.64%. Bond investors benefited from a drop in interest rates across the period which boosted bond valuations. The bellwether 10-year Treasury began the period yielding 3.03% and ended the period with a 2.53% yield. The Barclays U.S. Aggregate Bond Index, considered a good proxy for the broad domestic bond market, was up 3.93%. The CBOE S&P BuyWrite® Index (BXM) which represents a passive version a covered call strategy, rose 5.66%.

While the results of all the cited indices indicate a benign environment for investors, the year didn t start out quite so positively. Plenty of cautionary economic indicators were evident, as the U.S. economy showed the results of a deep and bitter winter. Many stocks faltered in the opening months, particularly some which had benefitted most from the extremely strong returns of 2013. Many emerging markets and Japan also corrected sharply, and the initial reports that the U.S. economy had contracted in the first quarter at a -2.9% annual clip gave credence to those concerns.

Overwhelming these early negatives was a growing confidence that the U.S. economy was making solid progress and the first quarter setback was only temporary. Unemployment fell during the first six months of 2014 by 1.4%, the largest such decline since 1984, while inflation remained contained. Even as the Federal Reserve eased its bond purchase program, there was a consensus that the Fed would likely keep rates low for some time, promoting continued expansion. Geopolitical stresses in the Ukraine and Middle East gave investors around the world reason to allocate funds to the perceived safety of U.S. Treasuries, despite yields which provide little real return when matched with inflation rates.

With the exception of a late January setback, equity markets have moved steadily higher for most of the period, with market volatility continuing to trend lower. On June 30, 2014, volatility as measured by the CBOE Volatility Index (VIX) was at seven-plus year lows. Low volatility results in lower call option premiums and can signal a level of investor complacency which we are increasingly wary of.

How did the fund perform given the marketplace conditions during the first six months of 2014?

For the six months ending June 30, 2014, the fund s net asset value (NAV) rose 5.02%, trailing the CBOE S&P BuyWrite® Index (BXM) return of 5.66%. The S&P 500® rose 7.14% during the period. The fund s market price rose 11.51% as the discount to NAV narrowed to 8.9% at June 30, compared with an average discount for the six month period of 11.4%. On an NAV basis, the fund performed in line with the BXM index for much of the period. As the S&P 500® Index moved sharply higher in mid-May through the end of June, management became increasingly defensive and the fund increasingly hedged. Given this posture, the fund began lagging the performance of the BXM through the end of the period and lagged the S&P 500® Index surge by a greater margin. Relative to the S&P 500® Index, stock selection in the fund was a positive contributor to performance, however, sector allocation caused a drag on performance. The primary negative drivers of sector allocation were centered on the fund s absence from the relatively small Utilities Sector which performed very well as interest rates declined, and the fund s underweighted positioning in the Energy Sector which enjoyed strong performance as geopolitical issues resulted in stronger crude oil pricing. In addition, the fund was overweighted in the Consumer Discretionary Sector, which lagged primarily on weather related concerns. The most significant headwind to the fund was extremely active assignment activity as a result of the strong upward momentum of the overall market, particularly in the second quarter of the year. An upward trending market will result in a number

MSP | Madison Strategic Sector Premium Fund | Review of Period (unaudited) - continued | June 30, 2014

of underlying equity positions rising above the strike price of the call option over which they are written, resulting in the equity position potentially being assigned or called away at the option strike price. As a result, the fund received significant amounts of cash which we reinvested opportunistically. However, the higher cash balance in the fund was a headwind to performance given the generally upward trend of the market.

SHARE PRICE AND NAV PERFORMANCE FOR MADISON STRATEGIC SECTOR PREMIUM FUND

Describe the fund s portfolio equity and option structure.

As of June 30, 2014, the fund held 43 equity securities and unexpired call options had been written against 87% of the fund s stock holdings. It is the strategy of the fund to write out-of-the-money call options. As of June 30, 45.1% of the fund s call options (32 of 71 different options) remained out-of-the-money. (Out-of-the-money means the stock price is below the strike price at which the shares could be called away by the option holder). This level is lower than previous periods due to the strong upward move in equities this year which moved a number of call options in-the-money. Of the 71 option positions, three were put options which we sold against existing equity holdings that also have covered call options written. The writing of out-of-the-money put options allows the fund to increase the level of income generated and provides for a lower entry point for adding to existing equity holdings. The cash potentially required to purchase additional shares of the underlying stocks in the event a put option is assigned is segregated from other cash and held in separated short-term Treasury securities. In addition, the fund had two protective put option holdings against the S&P 500® Index. The fund will opportunistically own protective put options in order to provide additional insurance against a potential market decline.

Which sectors are prevalent in the fund?

From a sector perspective, MSP s largest exposure as of June 30, 2014 was to the Consumer Discretionary Sector, followed very closely by the Information Technology Sector. The fund s third largest sector exposure was a neutral position (relative to the S&P 500® sector weighting) in the Industrial Sector. The fund had smaller, underweighted holdings in the Health Care, Energy, Consumer Staples and Financial Sectors. The fund had a small overweighted position in the Materials Sector and an underweighted position in the Telecommunications Sector, although both of these are relatively small portfolio exposures. There was no representation in the Utilities Sector.

| ALLOCATION AS A PERCENTAGE OF TOTAL INVESTMENTS AS OF 6/30/14 | |
|---|-------|
| Consumer Discretionary | 19.0% |
| Consumer Staples | 4.0% |
| Energy | 4.9% |
| Financials | 4.1% |
| Health Care | 8.1% |
| Industrials | 9.1% |
| Information Technology | 17.9% |
| Materials | 3.5% |
| Telecommunication Services | 1.2% |
| Exchange Traded Funds | 3.8% |
| U.S. Government and Agency Obligations | 5.6% |
| Options Purchased | 0.4% |
| Short-Term Investments | 18.4% |

Discuss the fund s security and option selection process.

The fund is managed by primarily focusing on active stock selection before adding the call option overlay utilizing individual equity call options rather than index options. We use fundamental analysis to select what we see as solid companies with good growth prospects and attractive valuations. We then seek attractive call options to write on

MSP | Madison Strategic Sector Premium Fund | Review of Period (unaudited) - concluded | June 30, 2014

those stocks. It is our belief that this partnership of active management of the equity and option strategies provides investors with an innovative, risk-moderated approach to equity investing. The fund s portfolio managers seek to invest in a portfolio of common stocks that have favorable PEG ratios (Price-Earnings ratio to Growth rate) as well as financial strength and industry leadership. As bottom-up investors, we focus on the fundamental businesses of our companies. Our stock selection philosophy strays away from the beat the street mentality, as we seek companies that have sustainable competitive advantages, predictable cash flows, solid balance sheets and high-quality management teams. By concentrating on long-term prospects and circumventing the instant gratification school of thought, we believe we bring elements of consistency, stability and predictability to our shareholders.

Once we have selected attractive and solid names for the fund, we employ our call writing strategy. This procedure entails selling calls that are primarily out-of the-money, meaning that the strike price is higher than the common stock price, so that the fund can participate in some stock appreciation. By receiving option premiums, the fund receives a high level of investment income and adds an element of downside protection. Call options may be written over a number of time periods and at differing strike prices in an effort to maximize the protective value to the strategy and spread income evenly throughout the year.

What is the management soutlook for the market and fund in 2014?

Our outlook for the rest of this year is muted with an inclination to become increasingly defensive. Economic growth has improved from the weather induced collapse of the first quarter. However, a portion of the second quarter growth should prove to have resulted from pent-up demand from consumers who didn't shop during the frigid winter months. We expect overall growth for the full year should continue to be challenged since the economy does not appear to have entered a self-sustaining growth phase that doesn't require artificially low interest rates. Equity valuations are no longer cheap although we don't believe they are overly stretched yet. Corporate profits are at all-time highs but the rate of growth is slowing and an increasing proportion of the growth is coming from stock buy-backs rather than organic earnings improvement. The geopolitical environment is becoming progressively strained with particular focus on regions that could impact crude oil supply.

Typically the market has a correction (defined as a 10%-20% pullback) about every 18 months or so. The most recent market correction occurred in the fall of 2011 or about 32 months ago, so we are due. Another sign that we are nearing the end of a cycle is the surge we have seen in merger and acquisition (M&A) activity. Peak M&A activity has historically coincided with a top in the market cycle.

TOP TEN EQUITY HOLDINGS AS OF 6/30/14

| | % of Total Investments |
|--------------------------------------|---------------------------|
| Ebay Inc. | 2.9% |
| Costco Wholesale Corp. | 2.9% |
| Amazon.com Inc. | 2.7% |
| Discovery Communications Inc., Class | |
| C | 2.7% |
| EMC Corp. | 2.6% |
| CBS Corp., Class B | 2.4% |
| Apache Corp. | 2.3% |
| The Mosaic Company | 2.2% |
| Carmax Inc. | 2.2% |
| Ross Stores Inc. | 2.0% |

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MSP | Madison Strategic Sector Premium Fund | June 30, 2014

Portfolio of Investments (unaudited)

| | Shares | Value (Note 2) |
|--|--------|----------------|
| COMMON STOCKS - 78.2% | | |
| Consumer Discretionary - 20.7% | | |
| Amazon.com Inc. * (A) | 7,500 | \$ 2,435,850 |
| CarMax Inc. * (A) | 37,000 | 1,924,370 |
| CBS Corp., Class B (A) | 34,500 | 2,143,830 |
| Discovery Communications Inc., Class C * (A) | 33,000 | 2,395,470 |
| Home Depot Inc./The (A) | 21,000 | 1,700,160 |
| Lululemon Athletica Inc. * (A) | 27,000 | 1,092,960 |
| Panera Bread Co., Class A * (A) | 2,500 | 374,575 |
| Priceline Group Inc./The * (A) | 1,000 | 1,203,000 |
| Ross Stores Inc. (A) | 28,000 | 1,851,640 |
| Starbucks Corp. (A) | 22,000 | 1,702,360 |
| Starbucks Corp. (A) | 22,000 | 1,702,300 |
| Company Stanley A 40/ | | 16,824,215 |
| Consumer Staples - 4.4% | 00.000 | 0 500 500 |
| Costco Wholesale Corp. (A) | 22,000 | 2,533,520 |
| Whole Foods Market Inc. (A) | 27,000 | 1,043,010 |
| | | 3,576,530 |
| Energy - 5.4% | 00.000 | 0.040.400 |
| Apache Corp. (A) | 20,000 | 2,012,400 |
| Occidental Petroleum Corp. (A) | 14,500 | 1,488,135 |
| Petroleo Brasileiro S.A., ADR | 60,000 | 877,800 |
| | | 4,378,335 |
| Financials - 4.4% | | |
| Morgan Stanley (A) | 56,000 | 1,810,480 |
| State Street Corp. (A) | 27,000 | 1,816,020 |
| | | 3,626,500 |
| Health Care - 8.8% | | |
| Amgen Inc. (A) | 10,500 | 1,242,885 |
| Baxter International Inc. (A) | 5,500 | 397,650 |
| Celgene Corp. * (A) | 9,200 | 790,096 |
| Cerner Corp. * (A) | 32,000 | 1,650,560 |
| Gilead Sciences Inc. * (A) | 13,500 | 1,119,285 |
| Teva Pharmaceutical Industries Ltd., ADR (A) | 12,000 | 629,040 |
| Varian Medical Systems Inc. * (A) | 16,000 | 1,330,240 |
| | | 7,159,756 |
| Industrials - 9.9% | | |
| C.H. Robinson Worldwide Inc. (A) | 20,000 | 1,275,800 |
| FedEx Corp. (A) | 4,300 | 650,934 |
| Jacobs Engineering Group Inc. * | 34,000 | 1,811,520 |
| Rockwell Collins Inc. (A) | 18,500 | 1,445,590 |
| Stericycle Inc. * (A) | 10,500 | 1,243,410 |
| United Technologies Corp. (A) | 14,500 | 1,674,025 |
| | | 8,101,279 |
| Information Technology - 19.5% | | |
| Accenture PLC, Class A (A) | 18,000 | 1,455,120 |
| | | |

| Edgar i mig. | Madicon Chatogic Cotton Fromain Fand | 1 0111111 00110 | | |
|---|---|-----------------|--|--|
| Altera Corp. (A) | 42,500 | 1,477,300 | | |
| Apple Inc. (A) | 11,900 | 1,105,867 | | |
| Broadcom Corp., Class A (A) | 30,000 | 1,113,600 | | |
| eBay Inc. * (A) | 51,000 | 2,553,060 | | |
| EMC Corp. (A) | 86,000 | | | |
| | | 2,265,240 | | |
| Linear Technology Corp. (A) | 36,000 | 1,694,520 | | |
| Microsoft Corp. (A) | 41,000 | 1,709,700 | | |
| Nuance Communications Inc. * | 45,000 | 844,650 | | |
| QUALCOMM Inc. (A) | 21,000 | 1,663,200 | | |
| | | 15 000 057 | | |
| Materials - 3.8% | | 15,882,257 | | |
| Freeport-McMoRan Copper & Gold Inc | . (A) 31,000 | 1,131,500 | | |
| Mosaic Co./The (A) | 40,000 | 1,978,000 | | |
| modale con the (ity | 10,000 | 1,070,000 | | |
| | | 3,109,500 | | |
| Telecommunication Service - 1.3% | | -,, | | |
| Verizon Communications Inc. (A) | 22,000 | 1,076,460 | | |
| ` ' | | | | |
| Total Common Stocks | | | | |
| (Cost \$62,771,496) | | 63,734,832 | | |
| · | Contracts | | | |
| | | | | |
| PUT OPTIONS PURCHASED - 0.5% | | | | |
| S&P 500 Index, Put, July 2014, \$1,900 | 90 | 35,550 | | |
| S&P 500 Index, Put, Sept 2014, \$1,950 | | 331,100 | | |
| , , , , , , | | , | | |
| Total Put Options Purchased | | | | |
| (Cost \$668,476) | | 366,650 | | |
| (,, | | , | | |
| | Shares | | | |
| | | | | |
| INVESTMENT COMPANIES - 4.2% | | | | |
| Powershares QQQ Trust Series 1 (A) | 18,000 | 1,690,380 | | |
| SPDR S&P 500 ETF Trust (A) | 8,600 | 1,683,192 | | |
| | | | | |
| Total Investment Companies | | | | |
| (Cost \$3,262,101) | | 3,373,572 | | |
| | | | | |
| | Par Value | | | |
| | | | | |
| U.S. GOVERNMENT AND AGENCY | | | | |
| OBLIGATIONS - 6.1% | | | | |
| U.S. Treasury Bill (B) (C) - 6.1% | | | | |
| 0.026%, 8/21/14 | \$ 5,000,000 | 4,999,819 | | |
| 0.02070, 0/21/17 | Ψ 5,000,000 | 7,555,615 | | |
| Total II S Government and Agency | | | | |
| Total U.S. Government and Agency Obligations (Cost \$4,999,819) | | 4 000 010 | | |
| Obilgations (005t \$4,333,013) | See accompanying Notes to Financial Statement | 4,999,819 | | |
| | See accompanying Notes to Financial Statements. | | | |

MSP | Madison Strategic Sector Premium Fund | Portfolio of Investments (unaudited) - continued | June 30, 2014

| | Shares | res Value (Not | | |
|--|------------|----------------|--|--|
| SHORT-TERM INVESTMENTS - 20.0% State Street Institutional U.S. Government Money Market Fund | 16,280,502 | \$ | 16,280,502 | |
| Total Short-Term Investments (Cost \$16,280,502) | | | 16,280,502 | |
| TOTAL INVESTMENTS - 109.0% (Cost \$87,982,394**) NET OTHER ASSETS AND LIABILITIES - (6.2%) TOTAL CALL & PUT OPTIONS WRITTEN - (2.8%) | | | 88,755,375 (4,982,417) (2,311,388) | |
| TOTAL NET ASSETS - 100.0% | | \$ | 81,461,570 | |

- * Non-income producing.
- ** Aggregate cost for Federal tax purposes was \$87,991,691.
- (A) All or a portion of these securities positions represent covers (directly or through conversion rights) for outstanding options written.
- (B) All or a portion of these securities are segregated as collateral for put options written. As of June 30, 2014, the total amount segregated was \$4,999,819.
- (C) Rate noted represents annualized yield at time of purchase.
- ADR American Depositary Receipt
- ETF Exchange Traded Fund
- PLC Public Limited Company

| Call Options Written | Contracts (100 Shares Per Contract) | Expiration Date | Strike Price | Value (Note 2) |
|------------------------------|---|-----------------|--------------|----------------|
| Accenture PLC, Class A | 90 | August 2014 | \$ 80.00 | \$ 19,575 |
| Accenture PLC, Class A | 90 | August 2014 | 82.50 | 8,325 |
| Altera Corp. | 225 | August 2014 | 35.00 | 23,625 |
| Altera Corp. | 200 | September 2014 | 35.00 | 26,000 |
| Amazon.com Inc. | 37 | July 2014 | 315.00 | 48,840 |
| Amazon.com Inc. | 38 | August 2014 | 325.00 | 59,565 |
| Amgen Inc. | 105 | July 2014 | 115.00 | 44,100 |
| Apache Corp. | 100 | July 2014 | 90.00 | 108,750 |
| Apache Corp. | 100 | October 2014 | 95.00 | 84,000 |
| Apple Inc. | 119 | August 2014 | 93.57 | 37,485 |
| Baxter International Inc. | 55 | August 2014 | 75.00 | 3,960 |
| Broadcom Corp., Class A | 300 | August 2014 | 36.00 | 60,900 |
| C.H. Robinson Worldwide Inc. | 100 | August 2014 | 60.00 | 44,500 |
| C.H. Robinson Worldwide Inc. | 100 | November 2014 | 60.00 | 54,000 |
| CarMax Inc. | 167 | July 2014 | 45.00 | 115,230 |
| CarMax Inc. | 90 | October 2014 | 50.00 | 36,000 |
| CarMax Inc. | 113 | October 2014 | 52.50 | 29,098 |
| CBS Corp. | 100 | July 2014 | 60.00 | 28,000 |
| CBS Corp. | 115 | September 2014 | 60.00 | 48,875 |
| Celgene Corp. | 92 | July 2014 | 77.50 | 78,660 |
| Cerner Corp. | 145 | September 2014 | 55.00 | 12,687 |
| Costco Wholesale Corp. | 110 | . July 2014 | 115.00 | 12,760 |

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| Costco Wholesale Corp. | 110 | October 2014 | 115.00 | 39,875 | | |
|---|-----|----------------|--------|--------|--|--|
| Discovery Communications Inc. | 80 | July 2014 | 75.00 | 3,800 | | |
| Discovery Communications Inc. | 170 | September 2014 | 75.00 | 33,150 | | |
| Discovery Communications Inc. | 80 | September 2014 | 80.00 | 5,600 | | |
| eBay Inc. | 250 | September 2014 | 52.50 | 30,125 | | |
| eBay Inc. | 70 | October 2014 | 55.00 | 6,965 | | |
| EMC Corp. | 300 | August 2014 | 26.00 | 28,200 | | |
| EMC Corp. | 300 | August 2014 | 27.00 | 14,250 | | |
| EMC Corp. | 260 | October 2014 | 27.00 | 20,280 | | |
| FedEx Corp. | 30 | July 2014 | 140.00 | 34,425 | | |
| FedEx Corp. | 13 | August 2014 | 150.00 | 5,330 | | |
| Freeport-McMoRan Copper & Gold Inc. | 310 | August 2014 | 35.00 | 57,660 | | |
| See accompanying Notes to Financial Statements. | | | | | | |

MSP | Madison Strategic Sector Premium Fund | Portfolio of Investments (unaudited) - concluded | June 30, 2014

| | Contracts (100 Shares | | | | | |
|--------------------------|-----------------------|-----------------|--------------|-------|----------------|--------|
| Call Options Written | Per Contract) | Expiration Date | Strike Price | | Value (Note 2) | |
| Gilead Sciences Inc. | 135 | August 2014 | \$ | 82.50 | \$ | 43,200 |
| Home Depot Inc. | 105 | July 2014 | | 80.00 | | 16,590 |
| Home Depot Inc. | 105 | August 2014 | | 80.00 | | 23,205 |
| Linear Technology Corp. | 135 | July 2014 | | 46.00 | | 18,900 |
| Linear Technology Corp. | 135 | August 2014 | | 47.00 | | 18,225 |
| Linear Technology Corp. | 90 | August 2014 | | 48.00 | | 8,100 |
| Lululemon Athletica Inc. | 190 | July 2014 | | 47.50 | | 1,235 |
| Microsoft Corp. | 220 | August 2014 | | 41.00 | | |