

**Firm Overview**

Since its founding in 1955, Federated Investors, Inc. (NYSE:FII) and its subsidiaries have grown to become one of the nation's largest investment management organizations with assets under management of \$459.9 billion (as of 12/31/18) in investment strategies of domestic and international equity, fixed income and money market asset classes. Federated offers depth and breadth in its selection of products to meet the needs of virtually any client, from the large institutional investor and high net worth individuals, to retirement plan participants.

**Composite**

MDT Tax Aware All Cap Core Managed Account

**Benchmark**

Russell 3000® (Index)

**MDT Advisers Investment Team Key Personnel**

**Daniel Mahr, CFA**  
Managing Director, Research, Head of MDT Team  
17 Years Experience

**Frederick Konopka, CFA**  
Portfolio and Trading Manager  
22 Years Experience

**John Paul Lewicke**  
Research Manager  
12 Years Experience

**Sarah Stahl, CIPM**  
Managing Director  
22 Years Experience

**Damien Zhang, CFA**  
Research Manager  
10 Years Experience

**Tony Ng, CFA**  
Research Manager  
8 Years Experience

Past performance is no guarantee of future results.

**MDT Tax Aware All Cap Core Managed Account**

**Investment Philosophy**

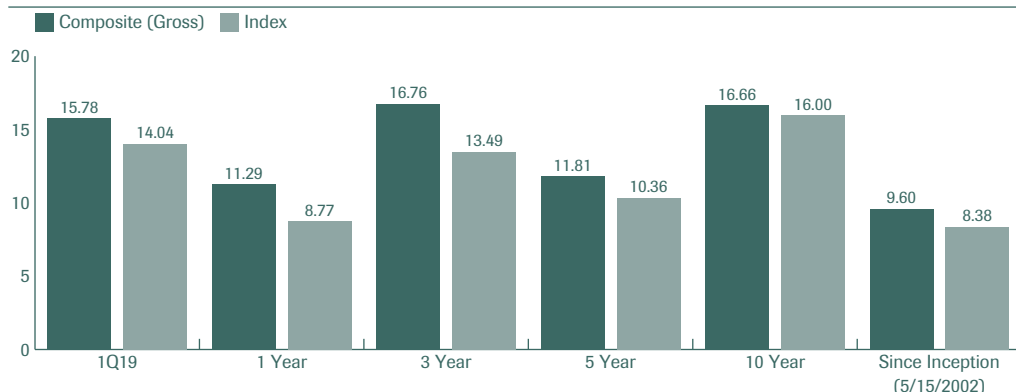
Our goal is to seek superior risk-adjusted performance for our clients. We believe that an unemotional, disciplined process will lead to superior portfolio selection. We believe that companies with strong combinations of fundamentals will outperform their peers in the long run. We believe that clients should hold a well-diversified portfolio with moderate tracking error and strong alpha potential.

**Investment Process**

Every trading day, we analyze the most recent data for each stock in the MDT Tax Aware All Cap Core universe. We evaluate all companies bottom-up according to fundamental and technical factors that measure a company's value, growth and quality characteristics. We build a portfolio of stocks with a variety of combinations of fundamental characteristics that obeys layered risk controls. The end result of our disciplined process is a well-diversified portfolio with moderate tracking error and strong alpha potential net of trading costs.

Investment Process	Risk Management	Advantages
<ul style="list-style-type: none"> <li>3,000 stocks screened daily using fundamental and technical factors</li> <li>High potential stocks identified by looking for combinations of factors that outperform</li> <li>Top stocks purchased for portfolio, subject to risk controls</li> <li>Trading costs built into the model—trades are only made if they improve the portfolio net of expected trading costs</li> <li>Consideration given to taxes</li> </ul>	<ul style="list-style-type: none"> <li>Portfolios tuned for relatively low risk given the potential alpha</li> <li>Typically 90-110 stocks in portfolio</li> <li>Diversification constraints designed to                             <ul style="list-style-type: none"> <li>limit position size</li> <li>limit benchmark-relative exposure to correlated companies in different sectors</li> <li>limit benchmark-relative exposure to businesses, industries and sectors</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Seeks superior risk-adjusted <b>after-tax performance</b></li> <li>Daily bottom-up, fundamental stock selection</li> <li>Differentiated process</li> <li>Transparent process</li> <li>Disciplined, unemotional, repeatable process</li> <li>Integrated, whole market approach</li> <li>Constant research and reevaluation of model</li> </ul>
Tax Considerations		
<ul style="list-style-type: none"> <li>Tax differential effect - takes into account the difference between short- and long-term tax rates</li> <li>Tax deferral effect - takes into account the benefit of deferring taxes one year</li> <li>Wash sales - strategy prevents wash sales from occurring</li> <li>Specific client tax bracket customization</li> </ul>		

**Pre-Tax Annualized Returns (%)\***



Data as of 3/31/19. Since inception performance is calculated starting on June 1, 2002. Information is supplemental to the attached GIPS presentation.

\*For a comparison of gross to net returns, see chart on page 3. "Pure" gross-of-fees returns do not reflect the deduction of any expenses, including trading costs. "Pure" gross-of-fees returns are supplemental to net returns. This information is supplemental to the attached GIPS presentation which should be referred to for the current performance, including the net figures.

# MDT Tax Aware All Cap Core Managed Account

## Portfolio Characteristics

	Portfolio	Index*
5-Year Forward EPS Growth (%)	13.4	11.8
P/E Forward Fiscal Year Est.	19.0	18.6
Wtd. Median Cap** (Mil.)	\$37,579	\$73,757
Price/Book	6.8x	5.0x
Dividend Yield (%)	1.0	1.6

## Sector Weightings (%)

	Portfolio	Index*
Communication Services	10.0	9.0
Consumer Discretionary	11.5	10.4
Consumer Staples	5.8	6.5
Energy	5.5	5.1
Financials	14.2	13.2
Health Care	14.6	14.4
Industrials	10.4	10.1
Information Technology	22.2	21.1
Materials	2.8	3.0
Real Estate	0.0	4.1
Utilities	3.0	3.2

## Pre-Tax Annual Performance Returns (%)\*\*\*

	Composite (Gross)	Index
2010	16.00	16.93
2011	-0.70	1.03
2012	18.02	16.42
2013	35.81	33.55
2014	16.68	12.56
2015	-2.65	0.48
2016	11.97	12.74
2017	23.37	21.13
2018	-0.32	-5.24
2019 (YTD)	15.78	14.04

## Benchmark Analysis\*\*\*\*

	Portfolio	Index
Annualized Return (%)	9.60	8.38
Annualized Standard Deviation (%)	15.25	14.49
Annualized Sharpe Ratio	0.59	0.54
Beta	1.01	1.00
Tracking Error (%)	4.08	0.00
Annualized Alpha (%)	1.15	0.00
R-Squared (%)	92.90	100.00
Up Capture Ratio (%)	104.84	100.00
Down Capture Ratio (%)	100.02	100.00

## Comparative After Tax Performance for a Sample Account

	2015			2016			2017			2018			(YTD) 2019		
	TAACC <sup>1</sup>	ACC <sup>2</sup>	R3000	TAACC <sup>1</sup>	ACC <sup>2</sup>	R3000	TAACC <sup>1</sup>	ACC <sup>2</sup>	R3000	TAACC <sup>1</sup>	ACC <sup>2</sup>	R3000	TAACC <sup>1</sup>	ACC <sup>2</sup>	R3000
Pre-tax (gross)	-3.08	-2.26	0.48	12.31	12.50	12.74	22.93	22.43	21.13	-0.50	-1.59	-5.24	16.25	15.66	14.04
After-tax (gross)	-7.43	-6.24	—	12.10	9.99	—	19.43	17.49	—	-4.04	-5.19	—	15.93	15.35	—
% of Realized Gains (Long-term)	97.00	79.00	—	71.00	69.00	—	97.00	58.00	—	93.00	61.00	—	92.00	76.00	—
% of Realized Gains (Short-term)	3.00	21.00	—	29.00	31.00	—	3.00	42.00	—	7.00	39.00	—	8.00	24.00	—
% of Realized Losses (Long-term)	11.00	41.00	—	17.00	51.00	—	18.00	55.00	—	10.00	17.00	—	7.00	76.00	—
% of Realized Losses (Short-term)	89.00	59.00	—	83.00	49.00	—	82.00	45.00	—	90.00	83.00	—	93.00	24.00	—
Net Short-term realized gain (loss) as a % of average capital	-1.77	0.81	—	-3.69	0.96	—	-1.36	4.86	—	-2.18	3.24	—	-0.91	0.14	—
Net Long-term realized gain (loss) as a % of average capital	20.50	6.09	—	7.48	3.93	—	12.88	6.72	—	17.73	8.31	—	2.32	0.40	—
After-tax (net)	-9.23	-8.07	—	9.95	7.88	—	17.45	15.53	—	-5.67	-6.79	—	15.47	14.88	—

Information is supplemental to the attached GIPS presentation.

<sup>1</sup> Account representative of our MDT Tax Aware All Cap Core Portfolio, not inclusive of all client accounts.

<sup>2</sup> Account representative of our MDT All Cap Core Portfolio, not inclusive of all client accounts.

The sector and style weights and portfolio characteristics were derived through analysis of all accounts that are "shadowed" on MDT's APL portfolio accounting system.

\*Information is derived from a universe that approximates the Russell 3000® Index.

\*\*Market cap at which 50% of assets are invested in higher market caps and 50% of assets are invested in lower market caps.

\*\*\*For a comparison of gross to net returns, see chart on page 3. "Pure" gross-of-fees returns do not reflect the deduction of any expenses, including trading costs. "Pure" gross-of-fees returns are supplemental to net returns. This information is supplemental to the attached GIPS presentation which should be referred to for the current performance, including the net figures.

\*\*\*\*Data from 6/1/02-3/31/19

The Russell 3000® Index measures the performance of the largest 3000 U.S. companies representing approximately 98% of the investable U.S. equity market. The index is calculated on a total return basis with dividends reinvested. It is unmanaged and not available for direct investment. Investing in equities is speculative and involves substantial risk. Individual client accounts will vary. MDT seeks to optimize every portfolio on a daily basis. However, not all portfolios may trade daily, due to operational issues or liquidity constraints. All charts and tables were created using information from Morningstar Inc. and MDT's internal Investment Team.

Russell Investments is the owner of the trademarks, service marks and copyrights related to its respective indexes. Copyright © Russell Investments 1995-2019. All rights reserved.

The net performance results reflect the deduction of 3% investment advisory fees per year (the highest fee applicable to any account in a sub-advisory managed account program), deducted monthly.

The after-tax returns shown are subject to the limitations of the specific calculation methodology applied. The calculation assumes maximum federal marginal tax rates for individuals, it assumes that all losses can be used to offset gains, and it assumes that all dividends are qualified dividends and taxed accordingly. Since the client's actual circumstances and tax rates determined after the fact may differ from the anticipated tax rates used in this process, the returns reported may not equal the actual after-tax returns for specific clients. Additional information regarding this calculation is available upon request.

**Past performance is no guarantee of future results.**

# Schedule of Rates of Return and Statistics

Composite **MDT Tax Aware All Cap Core Managed Account Composite**  
 Index **Russell 3000® Index**  
 Periods Ending **3/31/2019**

Returns (%)			
	Gross Composite Return	Index	Net Composite Return (Assuming Maximum Fee)
<b>Q1 19</b>	15.78	14.04	14.95
<b>YTD</b>	15.78	14.04	14.95
<b>1 Year</b>	11.29	8.77	8.02
<b>3 Years (Annlzd)</b>	16.76	13.49	13.34
<b>5 Years (Annlzd)</b>	11.81	10.36	8.53
<b>7 Years (Annlzd)</b>	14.54	12.63	11.19
<b>10 Years (Annlzd)</b>	16.66	16.00	13.25
<b>15 Years (Annlzd)</b>	9.65	8.68	6.43
<b>Jun 02 - Mar 19 (Annlzd)</b>	9.60	8.38	6.38

	Composite Gross Return	Composite Net Return	Benchmark Return	Composite* 3-Yr St Dev	Benchmark* 3-Yr St Dev	Number of Portfolios	Dispersion**	% of Carve-Outs	Composite Assets (\$mil)	Firm Assets (\$bil)
<b>2009</b>	25.71	22.05	28.34	22.42	20.32	294	1.02	0.00%	119.3	384.4
<b>2010</b>	16.00	12.60	16.93	24.14	22.62	220	0.40	0.00%	90.6	354.3
<b>2011</b>	-0.70	-3.65	1.03	19.45	19.35	158	0.40	0.00%	66.2	363.9
<b>2012</b>	18.02	14.57	16.42	16.30	15.73	116	0.63	0.00%	52.4	371.3
<b>2013</b>	35.81	31.89	33.55	13.71	12.53	111	0.68	0.00%	69.8	366.8
<b>2014</b>	16.68	13.27	12.56	9.00	9.29	105	1.19	0.00%	76.6	349.3
<b>2015</b>	-2.65	-5.54	0.48	10.68	10.58	69	0.56	0.00%	36.2	343.4
<b>2016</b>	11.97	8.68	12.74	11.43	10.88	64	0.74	0.00%	43.8	342.3
<b>2017</b>	23.37	19.79	21.13	11.00	10.09	65	0.70	0.00%	49.2	354.7
<b>2018</b>	-0.32	-3.27	-5.24	12.15	11.18	50	0.64	0.00%	33.4	377.2

\*Represents the 3-year annualized standard deviation for both the composite and index returns. The statistic is used to measure the volatility of composite returns.

\*\*Standard deviation is calculated using gross returns. Standard deviation is not applicable ("N/A") for any period if fewer than five accounts are in the composite for that period. (See footnote 5)

This strategy utilizes a disciplined, quantitative investment process which analyzes a diverse universe of approximately 3,000 publicly traded domestic equities on a daily basis. The process selects stocks based on fundamental variables, controls risk through diversification constraints, and controls turnover by taking into account the impact of trading cost. This strategy is similar to the All Cap Core except that it also takes into account the effect of taxes. The universe of stocks available to this strategy is the MDT All Cap Core Universe, which approximates the Russell 3000. The Russell 3000 Index measures the performance of the largest 3,000 U.S. companies representing approximately 98% of the investable U.S. equity market. Indexes are unmanaged and cannot be invested in directly. Prior to March 2005, this composite consisted of the MDT Tax Aware All Cap Core Institutional Composite. Beginning March 2005, wrap fee accounts make up 100% of this composite. This composite was created March 2005. MDT Advisers, a Federated Advisory Company, has managed portfolios in this investment style since May 2002. Firm assets prior January 2007 are of an acquired entity of Federated Investors. Performance presented prior to January 2007 occurred while the Portfolio Management Team members were affiliated with a prior firm. Performance shown for 2002 is for a partial period starting on June 1, 2002. Federated Investors claims compliance with the Global Investment Performance Standards ("GIPS®") and has prepared and presented this report in compliance with the GIPS® standards. Federated Investors has been independently verified for the period of January 1, 1992, through December 31, 2018. The verification report is available upon request. Verification assesses whether (1) the firm has complied with all the composite construction requirements of the GIPS® standards on a firm-wide basis, and (2) the firm's policies and procedures are designed to calculate and present performance in compliance with the GIPS® standards. Verification does not ensure the accuracy of any specific composite presentation. Accounts eligible for this composite must follow this style, be fully discretionary, and must have wrapped or bundled fees. Performance results are presented both net and gross of total wrap fees and reflect the reinvestment of income. "Pure" gross returns are shown as supplemental and do not reflect the deduction of transaction costs. Net returns reflect the deduction of a maximum fee. A fee equal to the highest anticipated wrap fee that a client could pay (3.00% annually as charged by the program sponsor, inclusive of up to a maximum investment advisory fee of 1.00%) is used. This total wrap fee includes all charges for trading costs, portfolio management, custody and other administrative fees. Actual fees may vary depending on, among other things, the applicable fee schedule and portfolio size. Gross returns prior to March 2005 are shown gross of fees and expenses, but net of direct transaction costs.

See Notes to the Schedule of Rates of Return and Statistics.

# Notes to the Schedule of Rates of Return and Statistics

- 1. Federated Investors is a global, independent, multi-strategy investment management firm with offices in Pittsburgh, New York, Rochester, Boston, London, Dublin, and Frankfurt. For GIPS® purposes, Federated Investors is defined to include the assets of registered investment companies, separate (or private) accounts, managed accounts (including wrap accounts) and commingled or collective trusts that are advised or sub-advised by the following subsidiaries: Federated Advisory Services Co.; Federated Equity Management Co. of PA; Federated Investment Counseling; Federated Investment Management Co.; Federated Global Investment Management Corp.; International Management Limited; MDT Advisers; Federated Securities Corp.; effective December, 2008, (the date of acquisition) the institutional assets of Federated Clover Investment Advisors, and effective September, 2009, (the date the assets were brought into compliance) the SMA/Wrap assets of Federated Clover Investment Advisors; and effective April, 2012 (the date of acquisition) Federated Investors (UK) LLP. Effective with the January 1, 2011, change in GIPS® policies regarding fair value, the assets of the Capital Preservation Fund (a Guaranteed Investment Contract vehicle) were included in the defined firm assets. Prior to that date they were excluded as they are not market value based investments. Firm assets on this report exclude the advisory-only, model-based assets that maybe included in other reports providing total firm assets*
- 2. Interest income and dividends are recognized on an accrual basis. Returns include the reinvestment of all income.*
- 3. All market values and performance information are valued in U.S. dollars unless currency is denoted in composite title.*
- 4. With the exception of the Federated Clover Investment Advisors composites, annual composite dispersion is measured and presented using the asset weighted standard deviation of the returns of all of the portfolios included in the composite over the entire year. Quarterly dispersion is measured using all portfolios included in the composite for that quarter. With regard to Federated Clover Investment Advisors composites, annual dispersion is measured using the equal weighted standard deviation of the returns of all the portfolios included in the composite over the entire year.*
- 5. Composite dispersion does not measure the risk of the product presented, it simply measures the return variance among portfolios managed in a similar fashion. This variance can be affected by variations in cash flow or specific client parameters among the portfolios comprising the composites, as well as by Federated's execution of strategy across accounts.*
- 6. See the composite description language on the prior page for a discussion on appropriate fees currently applied to calculate composite performance. With regard to the institutional composites not managed by the Federated Clover or MDT Advisers teams, for the period July 1, 1992 through September 30, 2009, net of fee performance was calculated monthly by reducing the gross composite return by the highest actual fee of any account in the composite for that month, regardless of investment vehicle. Prior to this, the maximum management fee charged for the period July 1, 1992 through September 30, 1992 was used to calculate net of fee performance back to inception of the composite. In addition, further fee information can be obtained from Federated's respective Forms ADV Part 2 Brochure Item 5.*
- 7. Additional information regarding the policies for valuing portfolios, calculating performance, and preparing compliant presentations, as well as a complete list and description of the firm's composites is available upon request.*
- 8. Past performance is not indicative of future results.*
- 9. See disclosures on the Schedule of Rates of Return and Statistics Reports for additional information.*



FederatedInvestors.com  
mdtadvisers.com

G35245-48 (4/19)

Federated is a registered trademark of Federated Investors, Inc.

2019 ©Federated Investors, Inc.

**MDT** | A Federated  
ADVISERS | Advisory  
Company