

Trades Not Executed by Morgan Stanley and Potential Costs That May Be Incurred

Overlay Manager or Executing Sub-Manager (“managers”) participating in some of Morgan Stanley Smith Barney LLC’s (“Morgan Stanley’s”) Separately Managed Account (“SMA”) manager programs have the authority to affect transactions through broker-dealers other than us or our affiliates when the manager reasonably believes that such other broker-dealer may effect such transactions at a price, including any mark-ups or mark-downs and/or other fees and charges, that is more favorable to the account than would be the case if transacted through us or our affiliates. These programs include Global Investment Solutions, Consulting and Evaluation Services, Select UMA and institutional services programs. In addition, even if the price is not more favorable, for the selection of such broker-dealer, the manager may consider all relevant factors, including execution capabilities, speed, efficiency, confidentiality, familiarity with potential purchasers or sellers, or any other relevant matters.

Managers may aggregate the securities to buy or sell for more than one client to obtain favorable execution to the extent permitted by law. The manager is then responsible for allocating the trade in a manner that is equitable and consistent with its fiduciary duty to its clients (which could include, e.g., pro rata allocation, random allocation or rotation allocation). For block trade orders, the price to each client is the average price for the aggregate order.

We refer to trades on which we are not the executing broker as “step-out trades.” If your manager trades with another firm, you may be assessed other trading related costs (mark-ups, mark-downs and/or other fees and charges) by the other broker-dealer. Those costs are in addition to the program fees applicable to Morgan Stanley’s SMA manager programs, will be included in the net price of the security, and will not be reflected as a separate charge on your trade confirmations or account statements. There are certain managers (including, but not limited to, managers offering municipal, corporate and convertible fixed income strategies) that have historically directed most, if not all, of their trades to outside broker-dealers. Any additional trading costs from step-out trades may increase your overall costs.

For the Global Investment Solutions, Consulting and Evaluation Services, Select UMA manager implemented strategies (generally, fixed income and balanced) and institutional services programs, the managers (and not Morgan Stanley) have discretion over broker-dealer selection and execution, and are responsible for meeting best execution obligations to program participants. Before selecting a manager for any of Morgan Stanley’s SMA manager programs identified above where the manager has the authority to trade away from Morgan Stanley, you should carefully review all material related to that manager, including the step-out trade information Morgan Stanley has requested from each of the managers in its SMA manager programs identified above where the manager has the authority to trade away from Morgan Stanley. Individual client account percentages may vary from the manager strategy percentage listed below. The information is for calendar year 2019 and has not been independently verified by Morgan Stanley. Neither the managers nor Morgan Stanley can represent that past step-out trading practices are indicative of current or future practices.

For information about costs incurred, please contact your Financial Advisor/Private Wealth Advisor (FA/PWA). If the manager you have selected or are considering is not listed below, or if that manager has not provided Step-Out information, please contact your FA/PWA for more information. The information provided by the managers is summarized below. For more detailed information on trading (including related costs), please refer to the ADV Brochure for the program(s) and/or manager(s) you are utilizing, which is available at www.morganstanley.com/ADV and from your Financial Advisor.

Product	Dollar-Weighted percentage of MSSB client step-out trades for the investment strategy	Average additional trading related costs included in net price for trades executed away from MSSB (cents per share or basis points)	Manager Code	Advisory Program
Advent Capital Management Balanced Convertible Non-QIB Composi	100%	0 BPS	ADC3	CES
Advent Capital Management Phoenix Convertible Income Strategy	100%	0 BPS	ADC-2	UMA
Advent Capital Management Phoenix Convertible Income Advisory	100%	0 BPS	ADC2	CES
AAM Insurance Core Advisory (Custom Solution)	100%	0 (as visible to AAM)	ALS1	ICS
AllianceBernstein L.P. AB Global Value Eq.	0%	0 CPS	ALI1	CES
AllianceBernstein L.P. AB Strategic Research Balanced (MA)	0%	0 CPS	REG-B	UMA
AllianceBernstein L.P. Tax-Aware Fixed Income (Low TaxBracket)	51.31%	0 BPS	ALI9	CES
AllianceBernstein L.P. Tax-Aware Fixed Income (Low TaxBracket)	51.31%	0 BPS	ALI-F	UMA
AllianceBernstein L.P.AB Concentrated Int'l Growth (MA)	0%	0 BPS	ALIM	CES
AllianceBernstein L.P.AB Concentrated US Growth	0%	0 BPS	ALIH	CES
AllianceBernstein L.P.AB Municipal High Quality (MA)	83.48%	0 BPS	ALIJ	CES
AllianceBernstein L.P.AB Municipal High Quality Portfolio SMA	83.48%	0 BPS	ALI-J	UMA
AllianceBernstein L.P.AB Strategic Research Balanced (MA)	0%	0 BPS	ALI3	CES
AllianceBernstein L.P.AB Tax Aware Fixed Income (MA)	51.3%	0 BPS	ALI7	CES
AllianceBernstein L.P.AB Tax Aware Fixed Income	51%	0 BPS	ALI-C	UMA
AllianceBernstein L.P.Tax-Aware Fixed Income (Medium TaxBracket)	51.31%	0 BPS	ALI8	CES
AllianceBernstein L.P.Tax-Aware Fixed Income (Medium TaxBracket)	51.31%	0 BPS	ALI-B	UMA
AllianceBernstein L.P. AB Strategic Research (MA)	0%	0 BPS	ALI2	CES
Allianz GI Global Sustain ADR SMA	0%	0 CPS	AGS4	CES
Allianz GI NFJ Dividend Value	0%	0 CPS	NFJ2	CES
AMI Asset Management AMI Large Cap Growth Equity	0%	0-2 CPS	AMI1	CES
AMI Asset Management AMI SMID Cap Growth Equity	0%	0-2 CPS	AMI2	CES
Amundi Pioneer Asset Management Fundamental Growth	0%	0 CPS	POI1	CES
Anchor Capital Advisors LLC Balanced Wrap	0%	0 BPS	ACP1	CES
Anchor Capital Advisors LLC Mid Cap Value	0%	0 BPS	ACP2	CES
Ancora Advisors Ancora/Thelen Small Mid Cap	0%	0 CPS	NOA1	CES
Aperio Group Custom Strategies	0%	0 BPS	APR6	CES
Aperio Group Full Custom Total US Mkt SRI	0%	0 BPS	APR4	CES
Aperio Group Developed World	0%	0 BPS	APR5	CES
Aperio Group Total US Mkt SRI	0%	0 BPS	APR3	CES
Appleton Partners, Inc. Municipal Bond	100%	0 BPS	APP4	CES
Appleton Partners, Inc. Municipal Bond	100%	0 BPS	APP-3	UMA
Aristotle Capital Boston Small/Mid Cap Equity	0%	0 CPS	ABO1	CES

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Aristotle Capital Management Value Equity	0%	0 CPS	RCB4	CES
Aristotle Capital Management International Equity - ADR	0%	0 CPS	RCB5	CES
ASB Capital Management AFL-CIO Equity Index Fund	0%	0 CPS	ASC2	ICS
Asset Preservation Advisors APA Intermediate Composite	100%	0 CPS	APD1	CES
Asset Preservation Advisors HQ Intm Tax Exempt	100%	0 CPS	APD-1	UMA
Atalanta Sosnoff Intermediate Duration Fixed Income	0%	0 CPS	ASF3	ICS
Atalanta Sosnoff Capital LLC Large Cap Equity	0%	0 BPS	ASF1	CES
Atalanta Sosnoff Capital LLC Balanced	0%	0 BPS	ASF2	CES
Atlanta Capital Management Co. High Quality Select Equity	0%	0 BPS	ATA4	CES
Atlanta Capital Management Co.High Quality SMID Cap	0%	0 CPS	ATA2	CES
Bahl & Gaynor, Inc.Income Growth	0%	0 CPS	BAH1	CES
Bahl & Gaynor, Inc.Large Cap Quality Growth	0%	0 CPS	BAH2	ICS
Becker Capital Large Cap Value	0%	0 CPS	BCK2	ICS
BlackRock Core Bond w/ BATS - SMA	100%	0 CPS	BLK12	CES
BlackRock Core Bond for Managed Accounts w/ BATS	100%	0 CPS	BLR-F	UMA
BlackRock Customized Core Bond	100%	0 CPS	BLK14	CES
BlackRock Equity Dividend SMA	0%	0 CPS	BLK1	CES
BlackRock Equity Dividend w/Catholic Values	0%	0 CPS	BLK15	CES
BlackRock Fundamental Core Taxable SMA	100%	0 CPS	BLK5	CES
BlackRock Global Dividend SMA	0%	0 CPS	BLK2	CES
BlackRock Global Dividend w/Catholic Values	0%	0 CPS	BLK16	CES
BlackRock Global Fixed Income SMA	100%	0 CPS	BLKE	CES
BlackRock PPM Global Fixed Income SMA	100%	0 CPS	BLK-E	UMA
BlackRock PPM Municipal Bond Portfolio	100%	0 CPS	BLK-W	UMA
BlackRock Intermediate Duration Portfolios	100%	0 CPS	BAK2	CES
BlackRock Intermediate Muni - SMA	100%	0 CPS	BLK6	CES
BlackRock Intermediate Taxable FI - SMA	100%	0 CPS	BLK7	CES
BlackRock International Dividend ADR	0%	0 CPS	BLKF	CES
BlackRock Municipal Ladder SMA 10-20 Years	100%	0 CPS	BLKJ	CES
BlackRock Municipal Ladder SMA 10-20 Years	100%	0 CPS	BLK-J	UMA
BlackRock Municipal Ladder SMA 1-10 Years	100%	0 CPS	BLKM	CES
BlackRock Municipal Ladder SMA 1-10 Years	100%	0 CPS	BLK-M	UMA
BlackRock Municipal Ladder SMA 1-5 Years	100%	0 CPS	BLKL	CES

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BlackRock Municipal Ladder SMA 1-5 Years	100%	0 CPS	BLK-L	UMA
BlackRock Municipal Ladder SMA 5-15 Years	100%	0 CPS	BLKK	CES
BlackRock Municipal Ladder SMA 5-15 Years	100%	0 CPS	BLK-K	UMA
BlackRock Large Cap Core SMA	0%	0 CPS	BLK10	CES
BlackRock Large Cap Value SMA	0%	0 CPS	BLK4	CES
BlackRock Large Cap Value w/Catholic Values	0%	0 CPS	BLK17	CES
BlackRock Long Term Muni - SMA	100%	0 CPS	BLK8	CES
BlackRock Short Duration for Managed Accounts	100%	0 CPS	BAK-F	UMA
BlackRock PPM Fundamental Core Taxable SMA	100%	0 CPS	BLK-3	UMA
BlackRock PPM Global Fixed Income SMA	100%	0 CPS	BLK-E	UMA
BlackRock PPM Intermediate Municipal - SMA	100%	0 CPS	BLK-4	UMA
BlackRock PPM Intermediate Taxable FI SMA	100%	0 CPS	BLK-6	UMA
BlackRock PPM Long Term Municipal FI SMA	100%	0 CPS	BLK-7	UMA
BlackRock PPM Short Term Muni - SMA	100%	0 CPS	BLK-8	UMA
BlackRock PPM Short Term Taxable FI SMA	100%	0 CPS	BLK-9	UMA
BlackRock Short Term Municipal FI SMA	100%	0 CPS	BLK9	CES
BlackRock Short Term Taxable Fixed Income SMA	100%	0 CPS	BLK3	CES
BlackRock U.S. LgCap Values Based Non Lendable	0%	0 CPS	BLKG	ICS
Boston Partner Large Cap Value Eq	0%	0 BPS	RBE2	CES
Boston Partners Small/Mid Cap Value Eq	0%	0 BPS	RBE1	CES
Boyd Watterson Asset Management Investment Grade Intermediate	100%	0 BPS	BOY3	CES
Boyd Watterson Asset Management Investment Grade Intermediate	100%	0 CPS	BOY-F	UMA
Boyd Watterson Asset Management Ultra Enhanced Core SMA Fixed Income	100%	0 BPS	BOY2	CES
Boyd Watterson Asset Management Ultra Enhanced Core SMA Fixed Income	100%	0 BPS	BYD-F	UMA
Brandes Investment Partners Enhanced Income	5%	2 CPS	BRN8	CES
Brandes Investment Partners Global Balanced Value	24%	15 BPS	BRN-B	UMA
Brandes Investment Partners Global Equity	85%	15 BPS	BRN5	CES
Brandes Investment Partners Global Small-Mid Cap Equity	46%	10 BPS	BRN1	CES
Brandes Investment Partners International Equity	72%	13 BPS	BRN4	CES
Brandes Investment Partners US Value Equity	17%	2 CPS	BRNB	CES
Brandes Investment Partners Emerging Markets Equity	73%	20 BPS	BRN9	CES
Brandes Investment Ptnrs - SMA Div Emerging Markets Value Eq - SMA	0%	0 CPS	BRN3	CES
Brandywine Global Investment Mgmt Classic Large Cap Value	0%	0 CPS	BRW3	CES

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Brandywine Global Investment Mgmt Global Fixed Income Investment Grade	0%	0 BPS	BRW2	CES
Breckinridge Capital Advisors, Inc. Intermediate Tax-Efficient	100%	0 CPS	BRK1	CES
Breckinridge Capital Advisors, Inc. Intermediate Tax-Efficient	100%	0 CPS	BRK-M	UMA
Breckinridge Capital Advisors, Inc. Intermediat Sustainable TaxEfficient	100%	0 CPS	BRK4	CES
Breckinridge Capital Advisors, Inc. Intermediate TaxEfficient Sustainable	100%	0 CPS	BRK-4	UMA
Breckinridge Capital Advisors, Inc. Intermediate Term Taxable Bond Strategy	100%	0 CPS	BRK-1	UMA
Breckinridge Capital Advisors, Inc. Intermediate Government Credit	100%	0 CPS	BRK2	CES
Breckinridge Capital Advisors, Inc. Intermediate Sustainable Gov Credit	100%	0 CPS	BRK3	CES
Breckinridge Capital Advisors, Inc. Intermediate Sustainable Gov Credit	100%	0 CPS	BRK-3	UMA
Breckinridge Capital Advisors Intermediate Government Credit Gender Lens	100%	0 CPS	BRK5	CES
Brown Advisory Large Cap Sust Growth	0%	0 BPS	BWN2	CES
Cadinha & Co. Conservative Asset Allocator	0%	0 CPS	CAD1	CES
Calamos Advisors U.S. Convertible 80/20 Strategy	92%	0 BPS	CMS-C	UMA
Calamos Advisors U.S. Convertible Strategy	80%	0 BPS	CMS1	CES
Calamos Advisors Convertible 100% SMA Strategy	94%	0 BPS	CAL-C	UMA
Cambiar Investors LLC Europe Select	0%	0 CPS	CBR8	CES
Cambiar Investors LLC Global Equity	0%	0 CPS	CBR6	CES
Cambiar Investors LLC International Equity ADR	65%	0 BPS	CBR3	CES
Cambiar Investors LLC Large Cap Value Equity	0%	0 CPS	CBR1	CES
Cambiar Investors LLC Small Cap Value	0%	0 CPS	CBR2	CES
Cambiar Investors LLC SMID Value	0%	0 CPS	CBR4	CES
Capital Group International Growth SMA	0%	0 CPS	CPGD	CES
Capital Group Global Growth ADR	0%	0 CPS	CPGC	CES
Capital Group U.S. Growth SMA	0%	0 CPS	CPGB	CES
Capital Group US Income & Growth SMA	0%	0 CPS	CPGA	CES
Capital Group Intermediate Muni SMA	100%	0 CPS	CPG7	CES
Capital Group Short Municipal Bond SMA	100%	0 CPS	CPG6	CES
Capital Group Long Municipal SMA	100%	0 CPS	CPG8	CES
Capital Group Capital Group Global Equity SMA	1.75%	1 - 5 CPS	CPG4	CES
Capital Group Capital Group Intl. Equity SMA	36.14%	1 - 5 CPS	CPG1	CES
Capital Group Capital Group PCS U.S. Equity	0%	0 CPS	CPG2	CES
Capital Group PCS Intl. Equity	0%	0 CPS	CPG3	CES
Capital Group World Dividend Grower SMA	20.8%	1 - 5 CPS	CPG5	CES

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Capital Group Long Municipal SMA	100%	0 CPS	CPG-8	UMA
Capital Group Intermediate Muni SMA	100%	0 CPS	CPG-7	UMA
Capital Group Short Municipal SMA	100%	0 CPS	CPG-6	UMA
Center Coast Brookfield MLP SMA	0%	0 CPS	COA1	CES
CenterSquare Investment Management U.S. REIT Separate Account	0%	0 CPS	CSQ1	ICS
Chartwell Investment Partners Mid Cap Value	0%	0 CPS	WOLC	CES
Chartwell Investment Partners Intermediate Fixed Income	100%	0 CPS	WOLA	ICS
Chartwell Investment Partners Short Duration BB High Yield Fixed	100%	0 CPS	WOLD	ICS
Chilton Global	100%	0 CPS	IGF-5	CES
Chilton Global	100%	0 CPS	IGF5	UMA
Chilton Short Term Crossover Municipals	100%	0 CPS	IGF2	CES
Chilton Short Term Crossover Municipals	100%	0 CPS	IGF-2	UMA
Chilton Short Term Taxable	100%	0 CPS	IGF4	CES
Chilton Short Term Taxable	100%	0 CPS	IGF-4	UMA
Chilton Crossover Municipal	100%	0 CPS	IGF1	CES
Chilton Crossover Municipal	100%	0 CPS	IGF-1	UMA
Chilton Taxable	100%	0 CPS	IGF3	CES
Chilton Taxable	100%	0 CPS	IGF-3	UMA
Churchill Management Group Premier Wealth Tactical	40%	1 - 1.5 CPS	CHU1	CES
Cincinnati Asset Management, Inc. High Yield Corporate Fixed Income	100%	0 BPS	CIN1	CES
Cincinnati Asset Management, Inc. Investment Grade Fixed Income	100%	0 BPS	CNI-F	UMA
Cincinnati Asset Management, Inc. Short Duration Fixed Income	100%	0 BPS	CIN-1	UMA
Cincinnati Asset Management, Inc. Broad Market Corporate Bond Program	100%	0 BPS	CIN2	CES
Cincinnati Asset Management, Inc. Broad Market Corporate Bond Program	100%	0 BPS	CNI-5	UMA
Cincinnati Asset Management, Inc. Short Duration Fixed Income	100%	0 BPS	CIN4	CES
Cincinnati Asset Management, Inc. Investment Grade Fixed Income	100%	0 BPS	CIN3	CES
Cincinnati Asset Management, Inc. High Yield Corporate Fixed-Income (UMA)	100%	0 BPS	CIN-H	UMA
Clarkston Capital Partners, LLC SMID Cap Strategy	0%	0 CPS	CKC1	ICS
ClearBridge Appreciation ESG	59.11%	0.012 CPS	CLD11	CES
ClearBridge Dividend Strategy (MA)	60.99%	0.017 CPS	SBO	CES
ClearBridge International Growth ADR (MA)	78.66%	0.012 CPS	CLD7	CES
ClearBridge Large Cap Growth ESG	78.17%	0.014 CPS	CLD4	CES
ClearBridge Appreciation	100%	0.014 CPS	SBH	CES

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ClearBridge Large Cap Growth (MA)	51.74%	0.014 CPS	SAX	CES
ClearBridge Large Cap Growth ESG/Catholic Values	59.62%	0.014 CPS	CLD21	CES
ClearBridge Large Cap Value (MA)	12.29%	0.008 CPS	CLD5	CES
ClearBridge Large Cap Value ESG MA	75.05%	0.007 CPS	CLD14	CES
ClearBridge Large Cap Value ESG/Catholic Values	50.16%	0.007 CPS	CLD19	CES
ClearBridge Mid Cap (MA)	100%	0 CPS	CLD6	CES
ClearBridge Multi Cap Growth ESG MA	9.7%	0.016 CPS	CLD16	CES
ClearBridge Multi-Cap Growth (MA)	12.87%	0.005 CPS	CLD1	CES
ClearBridge Small Cap Growth (MA)	100%	0 CPS	CLDM	CES
ClearBridge Taxable Fixed Income SMA	100%	0 CPS	CLDG	ICS
Cohen & Steers Capital Mgmt., Inc. U.S. Realty Total Return	0%	0 CPS	CSE3	CES
Columbia Management Capital Advisers Contrarian Large Cap Core	0%	0 CPS	CMP3	CES
Columbia Management Capital Advisers Dividend Income (MA)	0%	0 CPS	CMP2	CES
Columbia Management Capital Advisers Focused Large Cap Value	0%	0 CPS	SEL4	CES
Columbia Management Capital Advisers Dividend Opportunity Model	0%	0 CPS	CMP4	CES
Community Capital Management, Inc.Core Fixed Income Composite	100%	0 CPS	CMU1	CES
Community Capital Management, Inc.Core Fixed Income Composite	100%	0 CPS	CMU-1	UMA
Confluence Investment Management Large Cap Value	0%	0 CPS	FLU1	CES
Confluence Investment Management Small Cap Value	0%	0 CPS	FLU2	CES
Congress Asset Management Company Large Cap Growth	0%	0 CPS	CSA1	CES
Congress Asset Management Company Balanced Portfolio	0%	0 CPS	CSA3	CES
Congress Asset Management Company Mid Cap Growth	0%	0 CPS	CSA4	CES
Congress Asset Management Company Small Cap Growth	0%	0 CPS	CSA6	CES
Copeland Capital Management SMID Cap Dividend Growth	0%	0 CPS	CCN1	CES
Cove Street Capital, LLC Classic Value Small Cap Plus (ICS)	0%	0 CPS	CVC1	ICS
Cove Street Capital, LLC Classic Value Small Cap Plus	0%	0 CPS	CVC2	CES
Credit Suisse Asset Management Limited Duration Tax-Advantaged FI	100%	0 BPS	CDX1	CES
Credit Suisse Asset Management Limited Duration Tax-Advantaged FI	100%	0 BPS	CDX-1	UMA
Credit Suisse Intermediate Tax Adv FI	100%	0 BPS	CDX2	CES
Credit Suisse Intermediate Tax Adv FI	100%	0 BPS	CDX-2	UMA
Crossmark Global Investments Custom SRI Equity Index	0%	0 CPS	CPS3	ICS
Crossmark Global Investments Custom SRI International Equity Index	0%	0 CPS	CPS4	ICS
CS Mckee Aggregate Fixed Income	0%	0 CPS	CSM1	CES

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Cumberland Advisors Total Return Taxable Fixed Income	100%	0 BPS	CUM-2	UMA
Cumberland Advisors Total Return Taxable Fixed Income	100%	0 BPS	CUM2	CES
Cumberland Advisors Total Return Muni Bond	100%	0 BPS	CUM-1	UMA
Cumberland Advisors Total Return Tax-Free Municipal Bond	100%	0 BPS	CUM1	CES
Cushing Management, L.P.Cushing MLP Alpha Total Return Strat	0%	0 CPS	MLP1	CES
D.F. Dent & Company, Inc. Small Cap Growth	0%	0 CPS	DFD2	CES
Davis Advisors Large Cap Value	0%	0 CPS	DSA1	CES
Davis Advisors Davis Multi Cap Equity	0%	0 CPS	DSA2	CES
Davis Advisors Davis Global ADR SMA	0%	0 CPS	DSA4	CES
Delaware / Macquarie US Govt Int Agg Bond (SMA)	99%	0 CPS	ACI4	CES
Delaware / Macquarie Intermediate Aggregate Duration	99%	0 CPS	ACI-A	UMA
Delaware / Macquarie Intl ADR Eq-Mondrian (SMA)	83.20%	0 - 6 BPS	DCM2	CES
Delaware / Macquarie US Large Cap Growth Equity	0%	0 CPS	DCM1	CES
Delaware / Macquarie US Large Cap Value Equity	33%	0 CPS	DCM4	CES
Delaware / Macquarie US Govt Low Dur FI (SMA)	99%	0 CPS	ACI7	CES
Delaware / Macquarie Low Duration Gov Only	99%	0 CPS	ALC-F	UMA
Delaware / Macquarie US Sml Cap Value Eq (SMA)	17.04%	0 CPS	DCM3	CES
Delaware / Macquarie US Smid Cap Focus-Gr (SMA)	0%	0 CPS	DCM-A	UMA
D.F. Dent & Company, Inc. Mid Cap Growth	0%	0 CPS	DFD1	CES
Dodge & Cox Core Fixed Income	N/A	N/A	DAC3	ICS
Dodge & Cox U.S. Equity	0%	0 CPS	DAC1	ICS
Dolan McEniry Capital Mgmt Dolan McEniry Core Plus	100%	0 BPS	DLM2	CES
Dolan McEniry Capital Mgmt Dolan McEniry Credit	100%	0 BPS	DLM1	CES
Dolan McEniry Capital Mgmt Core Plus	100%	0 BPS	DLM-2	UMA
Dolan McEniry Capital Mgmt Credit	100%	0 BPS	DLM-1	UMA
Dorsey Wright Systematic Relative Strength Int'l	0%	0 CPS	DOW3	CES
Mid Cap Growth - Retail (MA)	0%	0 CPS	EAG6	CES
Eagle Asset Management Small Cap Growth - Retail (MA)	0%	0 CPS	EAG4	CES
Eagle Capital Management, LLC Eagle Equity	0%	0 CPS	ECM1	CES
Earnest Partners, LLC Mid Cap Value Equity	0%	0 CPS	EPL2	CES
Earnest Partners, LLC Small Cap Value	0%	N/A	EPL3	CES
Earnest Partners, LLC Small/Mid Cap Core Equity	0%	0 CPS	EPL4	CES
Eaton Vance Management Investment Grade Aggregate Core Bond	100%	0 BPS	EATG	ICS

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Eaton Vance Management Parametric TABS Total Return Intermediate	100%	0 BPS	ETN	CES
Eaton Vance Management Parametric TABS Total Return Long	100%	0 BPS	EAT5	CES
Eaton Vance Management Parametric TABS Total Return Limited	100%	0 BPS	EVAD	CES
Eaton Vance Management Parametric TABS Municipal Long	100%	0 BPS	EAT4	CES
Eaton Vance Management Parametric TABS Municipal Long	100%	0 BPS	ETV-M	UMA
Eaton Vance Management Parametric TABS Municiple Intermediate	100%	0 BPS	EAT3	CES
Eaton Vance Management Parametric TABS Municiple Intermediate	100%	0 BPS	EVM-M	UMA
Eaton Vance Management Parametric TABS Municiple Short	100%	0 BPS	EVA8	CES
Eaton Vance Management Parametric TABS Municiple Short	100%	0 BPS	EAT-M	UMA
Eaton Vance Management Parametric TABS Total Return Intermediate	100%	0 BPS	EAT-3	UMA
Eaton Vance Management Parametric TABS Total Return Long	100%	0 BPS	EAT-1	UMA
Eaton Vance Management Parametric Parametric TABS Total Return Limited	100%	0 BPS	EAT-2	UMA
Eaton Vance Management Parametric U.S. Corporate Ladder Intermediate	100%	0 BPS	EAT-B	UMA
Eaton Vance Management Parametric U.S. Corporate Ladder Long	100%	0 BPS	EATC	CES
Eaton Vance Management Parametric U.S. Corporate Ladder Short	100%	0 BPS	EATA	CES
Eaton Vance Management Parametric U.S. Corporate Ladder Short	100%	0 BPS	EAT-A	UMA
Eaton Vance Management Large Cap Value Equity	0%	0 BPS	EVA3	CES
Eaton Vance Management Parametric TABS Municipal Ladder Intermediate	100%	0 BPS	EAT7	CES
Eaton Vance Management Parametric TABS Municipal Ladder Intermediate	100%	0 BPS	EAT-4	UMA
Eaton Vance Management Parametric TABS Municipal Ladder Long	100%	0 BPS	EAT-5	UMA
Eaton Vance Management Parametric TABS Municipal Ladder Short	100%	0 BPS	EAT6	CES
Eaton Vance Management Parametric TABS Municipal Ladder Short	100%	0 BPS	EAT-6	UMA
Eaton Vance Management Parametric U.S. Corporate Ladder Intermediate	100%	0 BPS	EATB	CES
Edge Asset Management SMID Dividend Income WO MLPS SMA	0%	0 BPS	EDA2	CES
Edge Asset Management SMID Dividend Income W MLPS SMA	0%	0 BPS	EDA1	CES
Edgewood Management LLC Large Cap Growth	N/A	N/A	EDG1	CES
Energy Income Partners Energy Infrastructure and MLP SMAs	0%	0 CPS	ENE2	CES
Epoch Investment Partners Global Equity Shareholder Yield	0%	0 CPS	MNY1	CES
Equity Investment Corporation All Cap Value Equity	0%	0 CPS	EIC1	CES
Equity Investment Corporation Large Cap Value Equity	0%	0 CPS	EIC2	CES
Fayez Sarofim Large Cap Equity	0%	0 CPS	FAY1	CES
Federated Investors, Inc. Federated Clover All Cap Value	35%	0 BPS	CLV4	CES
Federated Investors, Inc. Core Aggregate-Fixed Income	100%	0 BPS	FED5	ICS

Product	Dollar-Weighted percentage of MSSB client step-out trades for the investment strategy	Average additional trading related costs included in net price for trades executed away from MSSB (cents per share or basis points)	Manager Code	Advisory Program
Federated Investors, Inc. Core Plus Fixed Income	100%	0 BPS	FED-6	UMA
Federated Investors, Inc. Core Plus Fixed Income (MA)	0%	0 BPS	FED6	CES
Federated Investors MDT Small Cap Core	0%	0 BPS	MTA8	ICS
Federated Investors Strategic Value Dividend (MA)	0%	0 BPS	FED1	CES
Federated Investors, Inc. Federated Clover Small Cap Value	0%	N/A	CLV5	CES
Federated Investors, Inc. Int'l Strategic Val Dividend ADR(MA)	0%	0 BPS	FED2	CES
Federated Investors, Inc. MDT All Cap Core (SMA)	0%	0 BPS	MTA2	CES
Federated Investors, Inc. MDT Large Cap Value	0%	0 BPS	MDT1	CES
Federated Investors, Inc. MDT Mid Cap Growth (SMA)	0%	0 BPS	MTA5	CES
Federated Investors, Inc. MDT Small Cap Value	0%	0 BPS	MTA3	CES
Federated Investors, Inc. MDT Tax Aware All Cap Core (SMA)	0%	0 BPS	MTA1	CES
Federated Investors, Inc. Core Plus Fixed Income	0%	0 BPS	FED-6	UMA
Fiduciary Management Inc All Cap Equity	N/A	N/A	FMI2	ICS
Fiduciary Management Inc Large Cap	N/A	N/A	FMI1	ICS
Fiduciary Management Inc Small Cap Equity	N/A	N/A	FMI3	ICS
Fiera Capital Inc. Small Cap Growth	0%	0 CPS	APX2	CES
Fiera Capital Inc. Small-Mid Growth	0%	0 CPS	APX4	CES
Frontier Capital Management Co LLC Frontier Mid Cap Growth	0%	0 CPS	FCM2	CES
Frontier Capital Management Co. LLC Frontier Capital Appreciation	0%	0 CPS	FCM5	ICS
Foundry Partners Micro Cap Value	81%	0 CPS	FTP3	ICS
Foundry Partners All Cap Value	76%	0 CPS	FPT1	CES
Franklin Templeton Investments Franklin Inter Municipal FI SMA	100%	0 BPS	FKM-M	UMA
Franklin Templeton Investments Franklin Inter Municipal FI SMA	100%	0 BPS	FKM9	CES
Franklin Templeton Investments Intermediate Term Fixed Income	10%	0 BPS	FKM-F	UMA
Franklin Templeton Investments Franklin Intermediate FI SMA	10%	0 BPS	FKMC	CES
Franklin Templeton Investments Franklin Small Cap Growth SMA	0%	0 BPS	FKM1	CES
Franklin Templeton Investments Templeton Intl ADR Equity SMA	0%	0 BPS	TPAG	CES
Franklin Templeton Investments Templeton Intl ORD Equity SMA	0%	0 BPS	FKM6	CES
Franklin Templeton Investments Templeton World Balanced SMA	0%	0 CPS	FKM7	CES
Franklin Templeton Investments Templeton World Balanced SMA	0%	0 CPS	TPA-G	UMA
Fuller & Thaler Asset Management Inc Small Cap Growth	0%	0 CPS	FUT2	CES
Fuller & Thaler Asset Management Small Cap Value	0%	0 CPS	FUT1	CES
Fuller & Thaler Asset Management Behavioral Small-Cap Equity	0%	0 CPS	FUT3	CES

Product	Dollar-Weighted percentage of MSSB client step-out trades for the investment strategy	Average additional trading related costs included in net price for trades executed away from MSSB (cents per share or basis points)	Manager Code	Advisory Program
Galliard Capital Management Short Intermediate Core Total Comp.	100%	0 CPS	GRD7	CES
Galliard Capital Management Intermediate Govt/Credit Composite	100%	0 CPS	GRD5	CES
Galliard Capital Management Broad Market Core Composite	100%	0 CPS	GRD6	CES
Garcia Hamilton & Assoc Fixed Income - Short Duration Opp.	100%	0 CPS	DHI4	CES
Garcia Hamilton & Assoc Fixed Income - Aggregate	74.59%	0 CPS	DHI5	CES
Garcia Hamilton & Assoc Fixed Income - Intermediate G/C	49.78%	0 CPS	DHI3	CES
Goldman Sachs Asset Mgmt. US Mid Cap Value	0%	0 CPS	GOL3	CES
Goldman Sachs Asset Mgmt. Tax-Advantaged Core - S&P 500	0%	0 CPS	GSA-1	UMA
Goldman Sachs Asset Mgmt. US Strategic Growth	0%	0 CPS	GOL2	CES
Goldman Sachs Asset Mgmt. Tax Advantaged Core – MSCI EAFE ADR	0%	0 CPS	GOL5	CES
Goldman Sachs Asset Mgmt. Tax Advantaged Core – Russell 3000	0%	0 CPS	GOL4	CES
Goldman Sachs Asset Mgmt. Tax Advantaged Core - S&P 500	0%	0 CPS	GSA1	CES
Goldman Sachs Asset Mgmt. Tax Advantaged Core – MSCI EAFE ADR	0%	0 CPS	GOL-5	UMA
Goldman Sachs Asset Mgmt. Tax Advantaged Core – Russell 3000	0%	0 CPS	GOL-4	UMA
Goldman Sachs Asset Mgmt. US Mid Cap Value	0%	0 CPS	GOL-5	UMA
Geneva Capital Management US Mid Cap Growth	0%	0 CPS	GNC2	CES
Geneva Capital Management US Small Cap Growth	0%	0 CPS	GNC1	CES
Global Investment Solutions Multi Manager Alternatives Portfolio	N/A	N/A	GIS-V	UMA
GMO Benchmark Free Allocation Strategy	0%	0 CPS	GMV4	ICS
GMO International All Country Equity Allocation Strategy	0%	0 CPS	GMV3	ICS
Great Lakes Advisors, LLC. Disciplined Smid Cap Catholic Values	0%	0 CPS	AIPA	CES
Great Lakes Advisors, LLC. Disciplined Tax Managed LargeCap	0%	0 CPS	AIP1	CES
Great Lakes Advisors, LLC. LargeCap ESG	0%	0 CPS	AIP4	CES
Great Lakes Advisors, LLC. SMidCap ESG	0%	0 CPS	AIP8	CES
Great Lakes Advisors, LLC. Disciplined All Cap	0%	0 CPS	AIP2	CES
Great Lakes Advisors, LLC. Disciplined Large Cap	0%	0 CPS	AIP3	CES
Great Lakes Advisors, LLC. Disciplined Smid Cap	0%	0 CPS	AIP5	CES
Great Lakes Advisors, LLC. Disciplined SR Large Cap Catholic Values	0%	0 CPS	AIP6	CES
Great Lakes Advisors, LLC. Disciplined Large Cap Climate Opportunities	0%	0 CPS	AIP7	CES
Great Lakes Advisors, LLC. Disciplined TaxManaged All Cap	0%	0 CPS	AIP-3	UMA
GW&K Investment Management Municipal Bond Strategy	100%	0 CPS	GAN4	CES
GW&K Investment Management Municipal Bond Strategy	100%	0 CPS	GAN-3	UMA
GW&K Investment Management Small / Mid Cap Core	0%	0 CPS	GAN2	CES

Product	Dollar-Weighted percentage of MSSB client step-out trades for the investment strategy	Average additional trading related costs included in net price for trades executed away from MSSB (cents per share or basis points)	Manager Code	Advisory Program
GW&K Investment Management Small Cap Core Strategy	0%	0 CPS	GAN1	CES
Hahn Capital Management HCM Mid Cap Value	0%	0 CPS	HAH1	CES
Hancock Whitney Asset Management Large Cap Value	0%	0 CPS	HBA3	CES
Glovista Investments LLC Glovista Emerging Market Equities	34.8%	0 - 0.5 CPS	GLV1	ICS
Hamlin Capital Management, LLC Hamlin Equity Income Strategy	0%	N/A	HHM2	CES
Harding Loevner LP Global Equity ADR	100%	4.4 BPS	HLM2	CES
Harding Loevner LP International Equity ADR	96%	11.7 BPS	HLM1	CES
Harris Associates L.P.Concentrated Value Equity	0%	0 CPS	HRA1	ICS
Harvest Volatility Management, LLC Collateral Yield Enhancement	0%	0 BPS	HVL1	CES
HGK Asset Management International Equity	0%	0 BPS	HGK7	ICS
HGK Asset Management Large Cap Value	0%	0 CPS	HGK2	CES
HGK Asset Management Small Cap Value	0%	N/A	HGK1	CES
HGK Asset Management HGK A+ Intermediate	0%	0 CPS	HGK6	ICS
Hoisington Investment Management Co. Macroeconomic Fixed Income	100%	0 CPS	HOI1	ICS
Horizon Asset Management LLC Core Value (MA)	0%	0 CPS	HOR1	CES
IndexIQ Advisors LLC. IQ IQ Hedge Multi-Strategy Tracker ETF	0%	0 CPS	IIQ1	CES
Invesco Diversified Dividend	0%	0 CPS	IVC7	CES
Invesco Growth and Income SMA/WRAP	0%	0 CPS	IVC9	CES
Invesco Intermed Term Muni Income SMA/WRAP	0%	0 CPS	IVCB	CES
Invesco Intermed Term Muni Income SMA/WRAP	0%	0 CPS	IVC-B	UMA
Invesco International ADR Growth - SMA/WRAP	0%	0 CPS	IVC3	CES
Invesco Limited Term Municipal Inc SMA/WRAP	0%	0 CPS	IVCA	CES
Invesco Limited Term Municipal Inc SMA/WRAP	0%	0 CPS	IVC-A	UMA
Invesco Long Municipal Income SMA/WRAP	0%	0 CPS	IVCC	CES
Invesco Long Municipal Income SMA/WRAP	0%	0 CPS	IVC-C	UMA
Invesco US REITs	92.25%	0 CPS	IVC2	CES
Ingalls & Snyder, LLC Fundamental Equity Advisors SMID	0%	N/A	IGL3	CES
Ingalls & Snyder, LLC Fundamental Equity Advisors All-Cap	0%	N/A	IGL2	CES
J.P. Morgan Asset Management Core Bond (Columbus)	0%	0 BPS	FLM1	CES
J.P. Morgan Asset Management Equity Income – MA	0%	0 CPS	FLM9	CES
J.P. Morgan Asset Management Growth Advantage SMA	0%	0 CPS	FLMK	CES
J.P. Morgan Asset Management Intermediate Municipal Bond - MA	0%	0 BPS	FIM-M	UMA
J.P. Morgan Asset Management Intermediate Municipal Bond - MA	0%	0 BPS	FIM6	CES

Product	Dollar-Weighted percentage of MSSB client step-out trades for the investment strategy	Average additional trading related costs included in net price for trades executed away from MSSB (cents per share or basis points)	Manager Code	Advisory Program
J.P. Morgan Asset Management International ADR - MA	0%	0 CPS	FIM1	CES
J.P. Morgan Asset Management JPM Mid Cap Growth	0%	0 CPS	FLMJ	CES
J.P. Morgan Asset Management Large Cap Growth	0%	0 CPS	FLM4	CES
J.P. Morgan Asset Management Mid Cap Value - MA	0%	0 CPS	FLMA	CES
J.P. Morgan Asset Management Municipal Ladder 1-10 Year	0%	0 BPS	FLM-6	CES
J.P. Morgan Asset Management Municipal Ladder 1-10 Year	0%	0 BPS	FLM-2	UMA
J.P. Morgan Asset Management Municipal Ladder 1-17 Years	0%	0 BPS	FLM7	CES
J.P. Morgan Asset Management Municipal Ladder 1-17 Years	0%	0 BPS	FLM-3	UMA
J.P. Morgan Asset Management Municipal Ladder 1-5 Year	0%	0 BPS	FLM5	CES
J.P. Morgan Asset Management Municipal Ladder 1-5 Year	0%	0 BPS	FLM-1	UMA
J.P. Morgan Asset Management Municipal Ladder Yield Curve Enhanced	0%	0 BPS	FLM8	CES
J.P. Morgan Asset Management Municipal Ladder Yield Curve Enhanced	0%	0 BPS	FLM-4	UMA
J.P. Morgan Asset Management Value Advantage – MA	0%	0 CPS	FLMC	CES
James Capital Alliance, Inc. US 60-Plus All Cap Balanced	0%	0 CPS	JCA4	CES
James Capital Alliance, Inc. US All Cap Balanced	0%	0 CPS	JCA3	CES
Janus Capital Management LLC Janus Conc Growth MA (LCG Retail)	0%	0 CPS	JCG1	CES
Jennison Associates LLC Mid Cap Growth	0%	0 CPS	JNA3	CES
Jennison Associates LLC International Equity Opportunities	0%	0 CPS	JNA7	CES
Jennison Associates LLC Global Equity Opportunities	0%	0 CPS	JNA6	CES
Jennison Associates LLC Large Cap Growth Equity	0%	0 CPS	JNA1	CES
Jensen Investment Management Quality Growth Equity Composite	0%	0 BPS	JMA1	CES
John Hancock Asset Management Fundamental Large Cap Core Wrap	0%	0 CPS	JHA1	CES
Kayne Anderson Rudnick Invst. Small-Mid Cap Quality Value	0%	N/A	KAY5	CES
Kayne Anderson Rudnick Invst. Small-Mid Cap Core (MA)	0%	N/A	KAY4	CES
Kayne Anderson Rudnick Invst. Small Cap Quality Value (MA)	0%	N/A	KAY3	CES
Karpus Investment Management Fixed Income Management	39.5%	0 CPS	KAR1	CES
Karpus Investment Management International Equity Composite	0%	0 CPS	KAR3	ICS
Karpus Investment Management Conservative Balanced	22.32%	0 CPS	KAR2	ICS
Kennedy Capital Management, Inc. Mid Cap Value	0%	0 CPS	KEC1	CES
Kovitz Investment Group, LLC Core Equity	0%	0 CPS	KOV1	CES
Lazard Asset Management Developing Markets Equity Select ADR-SMA	95%	2 - 8 CPS	LZDD	CES
Lazard Asset Management Emerging Markets Equity ADR	95%	2 - 8 CPS	LZDE	CES
Lazard Asset Management Global Equity Select ADR	95%	2 - 8 CPS	LZD3	CES

Product	Dollar-Weighted percentage of MSSB client step-out trades for the investment strategy	Average additional trading related costs included in net price for trades executed away from MSSB (cents per share or basis points)	Manager Code	Advisory Program
Lazard Asset Management International Equity Select ADR	95%	2 - 8 CPS	LZD4	CES
Lazard Asset Management International Equity Select w/ Emerging Markets ADR	95%	2 - 8 CPS	LZDF	CES
Lazard Asset Management Global Balanced Select ADR - SMA	95%	2 - 8 CPS	LZDH	CES
Lazard Asset Management US Equity Concentrated - SMA	40%	0 CPS	LZDU	CES
Lazard Asset Management US Equity Select - SMA	40%	0 CPS	LZD9	CES
Lazard Asset Management Emerging Markets Eq Select ADR - SMA	95%	2 - 8 CPS	LZDL	CES
Mellon Investments Corporation US Small Mid Cap Growth Equity	0%	0 CPS	MOL2	CES
Mellon Investments Corporation US Dynamic Large Cap Value	0%	0 CPS	MOL1	CES
Legg Mason Inc. Balanced Income	68.41%	0.010 CPS	CBE-8	UMA
Legg Mason Inc. Lg Grwth Bal 60/40 Tax Favored	48.73%	0.01%	CBE-F	UMA
Legg Mason Inc.AC Growth Bal 70/30 Taxable	65.02%	.01 CPS	CLD-U	UMA
Legg Mason Inc.All Cap Value Bal 60/40 Taxable	65.93%	0.014 CPS	CLD-R	UMA
Legg Mason Inc.Appreciation Bal w Muni Tax Favored 60/40	21.80%	0.014 CPS	CLD-L	UMA
Legg Mason Inc.Dividend Strat Bal 70/30 Tax Favored	57.51%	0.017 CPS	CLD-H	UMA
Legg Mason Inc.Dividend Strat Bal 70/30 Taxable	41.66%	0.017 CPS	CLD-G	UMA
Legg Mason Inc.Dividend Strategy Bal w Muni 60/40 Tax Favored	42.22%	0.017 CPS	CLD-I	UMA
Legg Mason Inc.Large Cap Growth ESG Balanced 60/40 Taxable	41.15%	0.012 CPS	CLD-C	UMA
Legg Mason Inc.Legg Mason Apprec Bal wMuni 70/30	47.68%	0.014 CPS	CLD-N	UMA
Legg Mason Inc.Legg Mason Appreciation Balanced 60/40 taxable	29.20%	0.014 CPS	CLD-K	UMA
Legg Mason Inc.Legg Mason Appreciation Balanced 70/30 taxable	31.07%	0.014 CPS	CBE-3	UMA
Legg Mason Inc.Legg Mason Balanced Inc w/Muni 70/30	100%	0.010 CPS	LGM1	CES
Legg Mason Inc.Legg Mason Balanced Income 70/30 SMA	100%	0.010 CPS	SBG	CES
Legg Mason Inc.Legg Mason Balanced Income w/Muni	100%	0.010 CPS	CBE-J	UMA
Legg Mason Inc.Legg Mason Dividend Strategy Bal 60/40 Taxable	58.98%	0.017 CPS	CLD-J	UMA
Legg Mason Inc.Lg Cp Growth Bal 60/40 Taxable	58.13%	0.014 CPS	CBE-B	UMA
Legg Mason Inc.Lrg Gr ESG Bal 70-30 Taxable	71.13%	0.012 CPS	CBE-M	UMA
Legg Mason Inc.Western Asset Active Bond Gov-Corp	97%	0 BPS	WTM-D	UMA
Legg Mason Inc.Western Asset Active Bond Intermediate Portfolios	97%	0 BPS	WTM-C	UMA
Legg Mason Inc.Western Asset GSM Gov/Corp	97%	0 BPS	SAL-A	UMA
Legg Mason Inc. All Cap Growth Balanced Taxable 60/40	56.05%	0.01 CPS	CLD-S	UMA
Loomis, Sayles & Company Intermediate Duration Fixed Income	61%	0 - 1 BPS	LSS1	CES
Loomis, Sayles & Company Small/Mid Cap Equity	0%	0 BPS	LSS5	CES
Loomis, Sayles & Company Core	62%	0 - 1 BPS	LSF	CES

Product	Dollar-Weighted percentage of MSSB client step-out trades for the investment strategy	Average additional trading related costs included in net price for trades executed away from MSSB (cents per share or basis points)	Manager Code	Advisory Program
Loomis, Sayles & Company Mgd Acct Govt/Credit	100%	0 CPS	LSA4	CES
Loomis, Sayles & Company All Government SMA	100%	0 CPS	LSA3	CES
Loomis, Sayles & Company 1-3 Year Government SMA	100%	0 CPS	LSA2	CES
Loomis, Sayles & Company Med (10 Year) Muni Bond Mgd Acct	100%	0 CPS	MDI4	CES
Loomis, Sayles & Company Interim (5 Year) Muni Bond Mgd Acct	100%	0 CPS	MDI3	CES
Loomis, Sayles & Company Government/Credit Bond Portfolio	100%	0 BPS	LSA-4	UMA
Loomis, Sayles & Company All Government	100%	0 BPS	LSA-3	UMA
Loomis, Sayles & Company 1-3 Year Government	100%	0 BPS	LSA-2	UMA
Loomis, Sayles & Company Medium Duration Municipal Bond	100%	0 BPS	MDI-M	UMA
Loomis, Sayles & Company ntermediate Term Municipal Fixed Income 5 Year	100%	0 BPS	MDO-M	UMA
Lord, Abbett & Co., LLC Convertibles MA	99%	0 BPS	LOC-C	UMA
Lord, Abbett & Co., LLC Large Cap Value MA	0%	0 BPS	LOA2	CES
Lord, Abbett & Co., LLC Long Municipal MA	99%	0 BPS	LOC-M	UMA
Lord, Abbett & Co., LLC Value Equity MA	0%	0 BPS	LOA4	CES
Lord, Abbett & Co., LLC Intermediate Municipal MA	97%	0 BPS	LOA5	CES
Lord, Abbett & Co., LLC Intermediate Municipal MA	97%	0 BPS	LOC-5	UMA
Lord, Abbett & Co., LLC Core Plus Total Return (ICS)	0%	0 BPS	LOA6	ICS
Lord, Abbett & Co., LLC Managed Municipal Ladders: 1-10 Year	97%	0 BPS	LOC-G	UMA
Lord, Abbett & Co., LLC Managed Municipal Ladders: 1-15 Year	97%	0 BPS	LOC-E	UMA
Lord, Abbett & Co., LLC Managed Municipal Ladders: 1-20 Year	100%	0 BPS	LOC-H	UMA
Lord, Abbett & Co., LLC Managed Municipal Ladders: 1-5 Year	100%	0 BPS	LOC-D	UMA
Lord, Abbett & Co., LLC Managed Municipal Ladders: 5-10 Year	92%	0 BPS	LOC-F	UMA
Lord, Abbett & Co., LLC Managed Municipal Ladders: 5-15 Year	97%	0 BPS	LOC-I	UMA
Lord, Abbett & Co., LLC Value Balanced - Taxable	0%	0 CPS	LOC-3	UMA
Lord, Abbett & Co., LLC Core Plus Total Return	N/A	N/A	LOA7	CES
Lord, Abbett & Company 5-15 Yr Managed Municipal Ladder MA	97%	0 BPS	LOCI	CES
Lord, Abbett & Company 5-10 Yr Managed Municipal Ladder MA	92%	0 BPS	LOCF	CES
Lord, Abbett & Company 1-15 Yr Managed Municipal Ladder MA	99.9%	0 BPS	LOCE	CES
Lord, Abbett & Company 1-20 Yr Managed Municipal Ladder MA	100%	0 BPS	LOCH	CES
Lord, Abbett & Company 1-10 Yr Managed Municipal Ladder MA	97%	0 BPS	LOCG	CES
Lord, Abbett & Company 1-5 Yr Managed Municipal Ladder MA	100%	0 BPS	LOCD	CES
Lord, Abbett & Company Long Municipal MA	99%	0 BPS	LOC9	CES
Lord, Abbett & Company Convertibles MA	99%	0 BPS	LOA3	CES

Product	Dollar-Weighted percentage of MSSB client step-out trades for the investment strategy	Average additional trading related costs included in net price for trades executed away from MSSB (cents per share or basis points)	Manager Code	Advisory Program
Lyrical Asset Management Lyrical U.S. Value Equity - CS	0%	0 CPS	LYR1	CES
M.D. Sass Relative Value Equities	95%	3.5 - 4.5 CPS	MDS1	ICS
MacKay Shields LLC Convertible Securities	90.8%	0 CPS	MKY-C	UMA
MacKay Shields LLC Core Investment Grade	0%	0 CPS	MKY1	CES
MacKay Shields LLC Convertible	0%	0 CPS	MKY2	CES
MacKay Shields LLC Fixed Income Intermediate	0%	0 CPS	MKY4	ICS
Madison Investment Advisors Intermediate Corporate Only	100%	0 CPS	MAD7	CES
Madison Investment Advisors Intermediate Fixed Income	100%	0 CPS	MDV-F	UMA
Madison Investment Advisors Intermediate Government Only	100%	0 CPS	MAD-2	UMA
Madison Investment Advisors Intermediate Government Bond	100%	0 CPS	MAD8	CES
Madison Investment Advisors Intermediate Govt/Corp Bond	100%	0 CPS	MAV-F	UMA
Madison Investment Advisors Intermediate Govt/Corp Bond	100%	0 CPS	MAD3	CES
Madison Investment Advisors Large Cap Equity	0%	0 CPS	MAD4	CES
Madison Investment Advisors Ltd Dur Govt Only Bd Sub-Advisory MA	100%	0 CPS	MAD1	CES
Madison Investment Advisors Ltd Dur Govt Only Bd Sub-Advisory MA	100%	0 CPS	MAD-1	UMA
Madison Investment Advisors Mid Cap Equity	0%	0 CPS	MAD5	CES
Managed Advisory Portfolio Solutions Intermediate Municipal	0%	0 BPS	MAF-E	UMA
Managed Advisory Portfolio Solutions Investment Grade Floating Rate Corporate Bond	0%	0 BPS	MAF-J	UMA
Managed Advisory Portfolio Solutions Laddered Municipal Intermediate	0%	0 BPS	MAF-F	UMA
Managed Advisory Portfolio Solutions Short Duration Municipal	0%	0 BPS	MAF-I	UMA
Managed Advisory Portfolio Solutions Short Term Corporate Bond	0%	0 BPS	MAF-D	UMA
Managed Advisory Portfolio Solutions Preferred Securities (Custom)	0%	0 BPS	MAF-G	UMA
Managed Advisory Portfolio Solutions Contingent Convertible Bond	0%	0 BPS	MAF-O	UMA
Managed Advisory Portfolio Solutions NRC Eligible Preferred	0%	0 BPS	MAF-U	UMA
Managed Advisory Portfolio Solutions Short Duration Enhanced Fixed Income (MAPS)	0%	0 BPS	MAF-T	UMA
Managed Advisory Portfolio Solutions Long Duration Municipal Portfolio	0%	0 BPS	MAF-N	UMA
Managed Advisory Portfolio Solutions Core Plus Fixed Income (ETFs)	0%	0 BPS	MAF-7	UMA
Manning & Napier Advisors Disciplined Value	0%	0 BPS	MAN4	ICS
Manning & Napier Advisors U.S. Core Equity	0%	0 BPS	MAN3	ICS
Manning & Napier Advisors, Inc. Core Non-U.S. Equity	0%	0 BPS	MAN1	CES
MFS Investment Management MFS Large Cap Value (SMA)	3.6%	0 CPS	MFS5	CES
Montag & Caldwell, LLC Large Cap Growth	0%	0 CPS	MON1	CES
Miller Howard Income Equity (with MLPs)	0%	0 CPS	MLH5	CES

Product	Dollar-Weighted percentage of MSSB client step-out trades for the investment strategy	Average additional trading related costs included in net price for trades executed away from MSSB (cents per share or basis points)	Manager Code	Advisory Program
Miller Howard Income Equity (without MLPs)	0%	0 CPS	MLH2	CES
Miller Howard Infrastructure	0%	0 CPS	MLH4	CES
Miller Howard MLP Strategy	0%	0 CPS	MLH1	CES
Miller Howard Drill Bit to Burner Tip (No K-1s)	0%	0 CPS	MLH7	CES
Minneapolis Port. Mgmt. Group All Cap Value	0%	0 CPS	MIN2	CES
Morgan Stanley Investment Management MSIM Defensive U.S. Large Cap Core Equity Taxable	100%	0 CPS	SRU-1	UMA
Morgan Stanley Investment Management MSIM Defensive U.S. Large Cap Core Non-Taxable	100%	0 BPS	SRU-2	UMA
Neuberger Berman International ADR (WRAP)	0%	0 CPS	NEU1	CES
Neuberger Berman Emerging Markets Equity	0%	0 CPS	NEUB	CES
Neuberger Berman Sustainable Equity	0%	0 CPS	NEU2	CES
Neuberger Berman S&P 500 Hedged Option Premium Strategy	0%	0 CPS	NBR1	CES
Neuberger Berman Small Cap Intrinsic Value (WRAP)	0%	0 CPS	NEU6	CES
New Century Advisors, LLC NCA Global Inflation-Linked Bond	0%	0 CPS	NNC2	ICS
New Century Advisors LLC NCA Short Duration Plus	0%	0 CPS	NNC1	ICS
NewSouth Capital Management NSCM Small/Mid Value Equity	93.7%	0 CPS	NWS3	ICS
NewSouth Capital Management NSCM Small Cap Value Equity	0%	0 CPS	NWS2	ICS
Newton Capital Management BNYM Newton Global Equity	0%	0 CPS	NEC2	CES
Newton Capital Management International Equity	0%	0 CPS	NEC1	CES
NorthCoast Asset Management CAN SLIM	0%	0 CPS	NMG1	CES
Nuance Investments Nuance Mid Cap Value	0%	0 CPS	NUA1	CES
Nuveen Asset Management Intermediate Gov/Credit FI	100%	3 - 5 BPS	NUV2	ICS
Nuveen Asset Management Intermediate Term Municipal HQ MA	99%	0 BPS	NVE9	CES
Nuveen Asset Management Intermediate Term Municipal HQ MA	99%	0 BPS	NVE-M	UMA
Nuveen Asset Management Municipal Bond Ladder 10-25 Yr (MA)	99%	0 BPS	NUV9	CES
Nuveen Asset Management Municipal Bond Ladder 10-25 Yr	99%	0 BPS	NUV-9	UMA
Nuveen Asset Management Municipal Bond Ladder 1-7 Year (MA)	99%	0 BPS	NUV7	CES
Nuveen Asset Management Municipal Bond Ladder 1-7 Year	99%	0 BPS	NUV-7	UMA
Nuveen Asset Management Municipal Bond Ladder 5-15 Year (MA)	99%	0 BPS	NUV8	CES
Nuveen Asset Management Municipal Bond Ladder 5-15 Year	99%	0 BPS	NUV-8	UMA
Nuveen Asset Management Municipal Limited Maturity (MA)	99%	0 BPS	NVE8	CES
Nuveen Asset Management Municipal Limited Maturity (MA)	99%	0 BPS	NUV-M	UMA
Nuveen Asset Management Municipal Long Term (MA)	99%	0 BPS	NUV1	CES
Nuveen Asset Management Municipal Long Term (MA)	99%	0 BPS	NVM-M	UMA

Product	Dollar-Weighted percentage of MSSB client step-out trades for the investment strategy	Average additional trading related costs included in net price for trades executed away from MSSB (cents per share or basis points)	Manager Code	Advisory Program
Nuveen Asset Management Nuveen Municipal Total Return (MA)	99%	0 BPS	NVE6	CES
Nuveen Asset Management Nuveen Municipal Total Return	99%	0 BPS	NVE-5	UMA
Nuveen Asset Management Small Cap Value	0%	0 BPS	NUV6	CES
Nuveen Asset Management Stable Growth	0%	0 BPS	CPT2	CES
Nuveen Asset Management Dividend Value	0%	0 BPS	NUV3	CES
Nuveen Asset Management Municipal Bond Ladder Strategy 1-10 Yr	99%	0 BPS	NUV4	CES
Nuveen Asset Management Municipal Bond Ladder Strategy 1-15 Yr	99%	0 BPS	NUV5	CES
Nuveen Asset Management 1-15 Year Municipal Ladder	99%	0 BPS	NUV-2	UMA
Nuveen Asset Management 1-10 Year Municipal Ladder	99%	0 CPS	NUV-1	UMA
NWQ Investment Management Co., LLC International Value Equity	0%	0 CPS	TGI4	CES
NWQ Investment Management Co., LLC Special Equity	0%	0 CPS	NWQ3	CES
NWQ Investment Management Co., LLC International Value (IADR)	0%	0 CPS	TGI1	CES
NWQ Investment Management Large Cap Value	0%	0 CPS	NWQ2	CES
NWQ Investment Management Large Cap Value Balanced	0%	0 CPS	NWQ-B	CES
NWQ Investment Management Large Cap Value Balanced	1%	0 CPS	NWQ1	CES
NWQ Investment Management Special Equity	0%	0 CPS	NWQ3	CES
Oak Ridge Investments All Cap Growth	25.15%	3 - 5 CPS	OKR2	CES
Oak Ridge Investments Small to Mid Cap Growth	95.51%	3 - 5 CPS	OKR1	CES
O'Shaughnessy Asset Mgmt, LLC Enhanced Dividend Strategy	0%	0 BPS	OSH3	CES
O'Shaughnessy Asset Mgmt, LLC Market Leaders Value	N/A	N/A	OSH4	ICS
Pacific Income Advisers Inc.Market Duration SMA	75%	0 - 0.5 BPS	PIA-F	UMA
Pacific Income Advisers Inc.Market Duration (SMA)	75%	0 - 0.5 BPS	PIA2	CES
Pacific Income Advisers Limited Duration SMA	75%	0 - 0.5 BPS	PIF-F	UMA
Pacific Income Advisers Limited Duration	75%	0 - 0.5 BPS	PIA1	CES
Pacific Income Advisers, Inc. Moderate Duration MACS	75%	0 - 0.5 BPS	PIA3	CES
Pacific Income Advisers, Inc. Moderate Duration MACS	75%	0 - 0.5 BPS	PIA-1	UMA
Pacific Investment Mgmt. Co 1-12 Year National Muni Ladder MA	100%	0 CPS	PCOC	CES
Pacific Investment Mgmt. Co 1-12 Year National Muni Ladder MA	100%	0 CPS	PCO-C	UMA
Pacific Investment Mgmt. Co 1-18 Year National Muni Ladder MA	100%	0 CPS	PCOD	CES
Pacific Investment Mgmt. Co 1-18 Year National Muni Ladder MA	100%	0 CPS	PCO-D	UMA
Pacific Investment Mgmt. Co 1-6 Year National Muni Ladder MA	100%	0 CPS	PCOB	CES
Pacific Investment Mgmt. Co 1-6 Year National Muni Ladder MA	100%	0 CPS	PCO-B	UMA
Pacific Investment Mgmt. Co 3-11 Yr National Muni Ladder	100%	0 CPS	PCO7	CES

Product	Dollar-Weighted percentage of MSSB client step-out trades for the investment strategy	Average additional trading related costs included in net price for trades executed away from MSSB (cents per share or basis points)	Manager Code	Advisory Program
Pacific Investment Mgmt. Co 3-11 Yr National Muni Ladder	100%	0 CPS	PCO-7	UMA
Pacific Investment Mgmt. Co 3-17 Yr National Muni Ladder	100%	0 CPS	PCO8	CES
Pacific Investment Mgmt. Co 3-17 Yr National Muni Ladder	100%	0 CPS	PCO-8	UMA
Pacific Investment Mgmt. Co Core Plus - Total Return Full Auth.	100%	0 CPS	PCO3	CES
Pacific Investment Mgmt. Co Muni Bond National Intermediate	100%	0 CPS	PCO6	CES
Pacific Investment Mgmt. Co Muni Bond National Intermediate	100%	0 CPS	PCO-1	UMA
Pacific Investment Mgmt. Co International Bond USD-Hedged	100%	0 CPS	PCO1	CES
Pacific Investment Mgmt. Co PIMCO Real Return Managed Accounts	100%	0 CPS	PCO5	CES
Pacific Investment Mgmt. Co PIMCO Total Return MA	100%	0 CPS	PCO2	CES
Pacific Investment Mgmt. Co Real Return for Managed Accounts	100%	0 CPS	PCO-6	UMA
Pacific Investment Mgmt. Co Total Return for Managed Accounts	100%	0 CPS	PCO-2	UMA
Parametric Portfolio Associates Parametric CC US SRI Broad Cap - TM	0%	0 CPS	PPA4	CES
Parametric Portfolio Associates Parametric Custom Passive Index	0%	0 CPS	PPA1	CES
Parametric Portfolio Associates Parametric Enhanced Income	0%	0 CPS	PPA3	CES
Parametric Portfolio Associates Enhanced Income Core	0%	0 CPS	PPAB	CES
Parametric Portfolio Associates Custom Core EAFE ADR	1%	0 - 5 BPS	PPA-1	UMA
Parametric Portfolio Associates Custom Russell 3000 / Int Ldr Corporate (60/40)	0%	0 CPS	PPE-8	UMA
Parametric Portfolio Associates Custom Russell 3000 / Short Laddered Muni (60/40)	0%	0 CPS	PPE-2	UMA
Parametric Portfolio Associates Custom S&P 500 / Short Laddered Muni (60/40)	0%	0 BPS	PPE-1	UMA
Parametric Portfolio Associates Custom S&P500 / Int Laddered Corporate (60/40)	0%	0 CPS	PPE-7	UMA
Parametric Portfolio Associates Custom S&P500/MSCI EAFE ADR/Int Ldr Corp 30/30/40	0%	0 CPS	PPE-9	UMA
Parametric Portfolio Associates Eaton Vance/Parametric Multi Cap MSP	0%	0 CPS	PPA8	CES
Parametric Portfolio Associates Custom Core - S&P 500	0%	0 CPS	PPA-7	UMA
Parametric Portfolio Associates Custom Russell 3000 / Interm Laddered Muni (60/40)	0%	0 CPS	PPE-5	UMA
Parametric Portfolio Associates Custom S&P500/Intermediate Laddered Muni (60/40)	0%	0 CPS	PPE-4	UMA
Parametric Portfolio Associates Custom SP500/MSCI EAFE ADR/Sht Ldr Muni 30/30/40	0%	0 CPS	PPE-3	UMA
Parametric Portfolio Associates Custom SP500/MSCI EAFE ADR/Int Ldr Muni 30/30/40	0%	0 CPS	PPE-6	UMA
Parametric Portfolio Associates Parametric CC Developed Intl ADR -TM	0%	0 CPS	PPA9	CES
Parametric Portfolio Associates Parametric Stock Delta Shift	0%	0 CPS	PPAC	CES
Parametric Portfolio Associates Parametric Enhanced Income Core	0%	0 CPS	PPAB	CES
Parametric Portfolio Associates Parametric Enhanced Income Tax-Adv	0%	0 CPS	PPA6	CES
Parametric Portfolio Associates Parametric CC US Broad Cap - TM	0%	0 CPS	PPA5	CES
Parametric Portfolio Associates Parametric CC US Broad Cap - TM	0%	0 CPS	PPA-2	UMA

Product	Dollar-Weighted percentage of MSSB client step-out trades for the investment strategy	Average additional trading related costs included in net price for trades executed away from MSSB (cents per share or basis points)	Manager Code	Advisory Program
Parametric Portfolio Associates Parametric CC US Large Cap - TM	0%	0 CPS	PPA7	CES
Parametric Portfolio Associates Parametric CC US SRI Broad Cap - TM	0%	0 CPS	PPA-4	UMA
PENN Capital Management Mid Cap Equity	0%	0 CPS	PNN4	CES
PENN Capital Management Opportunistic High Yield	0%	0 CPS	PNN1	CES
PENN Capital Management Small Cap Equity	0%	0 CPS	PNN2	CES
PENN Capital Management Small to Mid Cap Equity	98%	0 CPS	PNN	CES
Pzena Investment Management, LLC Pzena Small Cap Focused Value	100%	0.5 CPS - 3.5 CPS	PZE1	ICS
Pinnacle Associates Small to Mid Cap Equity	0%	0 CPS	PIN1	CES
Polen Capital Management Polen Focus Growth	0%	0 CPS	POL1	CES
Polen Capital Management Polen Global Growth ADR	0%	0 CPS	POL2	CES
Principal Global Equities MidCap Equity SMA	0%	0 BPS	PGI5	CES
Principal Global Equities U.S. Blue Chip Equity	0%	0 BPS	PGI6	CES
Principal Real Estate Investors Real Estate Equity Securities SMA	0%	0 BPS	PGI1	CES
Spectrum Asset Mgmt. Spectrum Spectrum Tax Advantage SMA	80%	0 BPS	PGI4	CES
Spectrum Asset Mgmt. Spectrum Preferred Securities	80%	0 BPS	PGI3	CES
Reinhart Partners, Inc Genesis Private Market Value	0%	0 CPS	RHC3	ICS
Reinhart Partners, Inc Active Intermediate Duration	0%	0 CPS	RHC1	UMA
Reinhart Partners, Inc Active Intermediate Fixed Income	83.96%	0 BPS	RHC2	CES
Reinhart Partners, Inc Mid Cap Private Market Value Equity	0%	0 CPS	RHC1	CES
Renaissance Investment Management Large Cap Growth - Wrap (MA)	0%	0 CPS	REN1	CES
Renaissance Investment Management International Equity - Wrap (MA)	0%	0 CPS	REN2	CES
Rice, Hall, James & Associates Micro Cap Growth	0%	N/A	RHJ3	ICS
Rice Hall James & Associates SMID Cap Opportunities	0%	N/A	RHJ2	ICS
Rice Hall James & Associates Small Cap Opportunities	0%	N/A	RHJ6	CES
Rice Hall James & Associates Micro Cap Equity	0%	N/A	RHJ4	CES
Rice Hall James & Associates Micro Cap Opportunities	0%	N/A	RHJ5	CES
Rice Hall James & Associates SMID Cap Opportunities	0%	N/A	RHJ7	CES
Richard Bernstein Advisors RBA Risk-Bal G Ib ETF Strategy MA	0%	0 CPS	RBS1	CES
Richmond Capital Management Builders ProLoan Bond Fund	0%	0 CPS	RIC3	ICS
Riverbridge Partners, LLC Eco Leaders	0%	0 CPS	RIV2	CES
Riverbridge Partners, LLC Small Cap Growth	0%	0 CPS	RIV1	CES
Riverbridge Partners, LLC SMID Cap Growth	0%	0 CPS	RIV3	CES
Riverfront Investment Group RIG Conservative Growth	0%	0 CPS	RVG1	CES

Product	Dollar-Weighted percentage of MSSB client step-out trades for the investment strategy	Average additional trading related costs included in net price for trades executed away from MSSB (cents per share or basis points)	Manager Code	Advisory Program
Riverfront Investment Group RIG Global Allocation	83.40%	0 CPS	RVG3	CES
Riverfront Investment Group RIG Global Growth	0%	0 CPS	RVG2	CES
Riverfront Investment Group, LLC RIG Moderate Growth & Income	0%	0 CPS	RVG4	CES
Rothschild & Co Asset Management US Large Cap Core	0%	0 CPS	ROT3	CES
Rothschild & Co. US Large Cap Value	0%	0 CPS	ROT4	CES
Rothschild & Co Asset Management US U.S. Small/Mid-Cap Core	0%	0 CPS	ROH2	ICS
RSW Investments Market Duration Municipal	100%	0 CPS	RSW-1	UMA
RSW Investments Market Duration Tax-Exempt Bond	100%	0 CPS	RSW1	CES
SLC Management U.S Total Return Fixed Income Team LDI Long Duration	0%	0 CPS	RLI2	CES
SLC Management U.S Total Return Fixed Income Team Short Duration Government/Credit	0%	0 CPS	RLI3	CES
SLC Management U.S Total Return Fixed Income Team Intermediate Gov/Credit	0%	0 CPS	RLI1	CES
Sage Advisory Services Core Taxable Fixed Income	100%	0 CPS	SGE1	CES
Sage Advisory Services Intermediate Corporate FI	100%	0 CPS	SGE8	CES
Sage Advisory Services Intermediate Corporate Only	100%	0 CPS	SGE-2	UMA
Sage Advisory Services Intermediate Term Fixed Income	100%	0 CPS	SGS-F	UMA
Sage Advisory Services Intermediate Term Fixed Income	100%	0 CPS	SGE2	CES
Sage Advisory Services Short Term Taxable Fixed Income	100%	0 CPS	SGE-F	UMA
Sage Advisory Services Short Term Taxable Fixed Income	100%	0 CPS	SGE3	CES
Sage Advisory Services Long Duration LDI (10+ Years)	100%	0 CPS	SGEA	CES
Sagewood Asset Management LLC Volatility Yield	0%	0 CPS	SGW1	CES
Salient Partners Salient MLP Seperate Account	0%	0 CPS	FWM2	CES
Salient Partners Salient MLP Total Return Fund LP	0%	0 CPS	BDK1	CES
Sands Capital Management LLC Select Growth	1%	0 CPS	SNS1	CES
Santa Barbara Asset Management Dividend Growth	0%	0 CPS	CPT3	CES
Sawgrass Asset Management, LLC Diversified Large Growth Equity	0%	0 BPS	SWG2	CES
Schafer Cullen Capital Management Emerging Market High Dividend	3.28%	0 - 2 CPS	SCC4	CES
Schafer Cullen Capital Management High Dividend Value Equity	1.09%	0 CPS	SCC3	CES
Schafer Cullen Capital Management International High Dividend Val. ADR	1.68%	0 CPS	SCC1	CES
Schafer Cullen Capital Management Enhanced Equity Income	0%	0 CPS	SCC5	ICS
Scharf Investments Scharf Core Equity	0%	0 BPS	SID1	CES
Segall Bryant & Hamill High Yield Fixed Income	57.5%	0 CPS	DEV1	ICS
Segall Bryant & Hamill All Cap Equity	0%	0 CPS	SEG2	CES
Segall Bryant & Hamill Core Fixed Income	100%	0 CPS	SEG3	ICS

Product	Dollar-Weighted percentage of MSSB client step-out trades for the investment strategy	Average additional trading related costs included in net price for trades executed away from MSSB (cents per share or basis points)	Manager Code	Advisory Program
Segall Bryant & Hamill Intermediate Fixed Income	100%	0 CPS	SEG5	ICS
Segall Bryant & Hamill Short Term Fixed Income	100%	0 CPS	SEG4	ICS
Segall Bryant & Hamill SMID Cap Equity	0%	0 CPS	SEG1	CES
Seix Investment Advisors Core Bond	100%	0 BPS	SIF-F	UMA
Seix Investment Advisors Enhanced Bond	100%	0 BPS	SIC-F	UMA
Seix Investment Advisors High Quality High Yield	100%	0 BPS	SIX-H	UMA
Seizert Capital Partners Core Equity	0%	0 CPS	SZR2	ICS
Select UMA Overlay Manager Executed Transactions*	23%	0.78 CPS	N/A	UMA
Sheets Smith Absolute Return Balanced Portfolio	0%	0 CPS	SSA1	CES
Amundi Pioneer Institutional Asset Management US Concentrated US Growth	100%	\$0.01 per share	POI2	ICS
Silvercrest Asset Management U.S. Small Cap Value	0%	0 CPS	SIL1	CES
Silvercrest Asset Management SMID CAP Equity	0%	0 CPS	SIL3	ICS
Schroders International Alpha	N/A	N/A	WER1	CES
Schroders International Alpha ADR	N/A	N/A	WER-1	UMA
Silvercrest Asset Management Group LLC SMID Cap Value	0%	0 CPS	SIL4	CES
Sit Investment Associates, Inc. Municipal Short Duration	100%	0 CPS	SIZ1	ICS
Smith Asset Management Large Cap Focused Growth	0%	0 BPS	SMG1	CES
Sterling Capital Management Mid Cap Value SMA	0%	0 CPS	SCM1	CES
Stonebridge Advisors Tax Advantaged Preferred Securities	31%	0 CPS	STG4	CES
Steinberg Asset Management, LLC SMID Cap Value	0%	0 CPS	STP7	ICS
Stonebridge Advisors Taxable Preferred Securities	33.25%	0 CPS	STG2	CES
Sustainable Growth Advisers, LP SGA U.S. Large Cap Growth	N/A	N/A	SGC1	CES
Systematic Financial Management Small Cap Free Cash Flow	0%	0 CPS	SYS1	CES
T. Rowe Price International Core Equity ADR	0%	0 CPS	TRR2	CES
T. Rowe Price US Blue Chip Growth Equity SMA	0%	0 CPS	TRR1	CES
Taplin, Canida & Habacht, LLC Core Fixed Income	100%	0 CPS	TCH1	ICS
TCW Balanced Managed Account	0%	0 CPS	TCA5	CES
TCW Balanced Managed Account	0%	0 CPS	TCW-B	UMA
TCW Concentrated Core Equities	0%	0 CPS	TCA8	CES
TCW Intermediate	0%	0 CPS	MET2	CES
TCW Core Plus Fixed Income	0%	0 CPS	MET4	CES
TCW Low Duration	0%	0 CPS	MET3	CES
TCW Relative Value Large Cap	0%	0 CPS	TCA4	CES

Product	Dollar-Weighted percentage of MSSB client step-out trades for the investment strategy	Average additional trading related costs included in net price for trades executed away from MSSB (cents per share or basis points)	Manager Code	Advisory Program
TCW Relative Value Mid Cap	0%	0 CPS	TCA2	CES
The Ithaka Group Ithaka Growth Portfolio	0%	0 CPS	IHK1	ICS
The London Company Income Equity	0%	0 CPS	LND3	CES
The London Company Mid Cap	0%	0 CPS	LND4	CES
The London Company Small Cap	0%	0 CPS	LND1	CES
The London Company SMID Cap	0%	0 CPS	LND2	CES
Thomas White International, Ltd. Emerging Markets ADR	0%	0 BPS	TMS1	CES
Thompson, Siegel & Walmsley LLC TSW Mid Cap Value	0%	0 CPS	TSW3	CES
Thompson, Siegel & Walmsley LLC TSW SMID Cap Value	0%	0 CPS	TSW4	CES
Thornburg Investment Management International Growth ADR	0%	0 CPS	THI4	CES
Thornburg Investment Management Limited Term Municipal	100%	0 CPS	THI3	CES
Thornburg Investment Management International ADR Strategy	22%	2.5 - 3 CPS	THI2	CES
Thornburg Investment Management International Equity Strategy	0%	0 CPS	THI1	CES
Thornburg Investment Management Emerging Markets ADR	0%	0 CPS	THI5	CES
Totoise Capital Advisors Tortoise Midstream MLP Separate Acct	43%	0 CPS	TCZ1	ICS
Todd Asset Management LLC International Intrinsic Value	0%	0 CPS	TOD1	CES
Trillium Asset Management Large Cap Core	0%	0 CPS	TAM1	CES
Trillium Asset Management Large Cap Core w/Catholic Values	17.90%	0 CPS	TAM2	CES
Uniplan Investment Counsel Uniplan REIT Portfolio	0%	0 CPS	UNI2	CES
Vaughan Nelson Investment Management Value Opportunity	0%	0 BPS	VNV2	ICS
Vaughan Nelson Small Capitalization Value	0%	0 CPS	VNVM	CES
Victory Capital Management Diversified Equity	0%	0 CPS	SPR2	CES
Victory Capital Management Munder Mid-Capitalization Growth	0%	0 CPS	MUM1	CES
Victory Capital Management INCORE Investment Grade Convertibles MA	0%	0 CPS	SPR-C	UMA
Victory Capital Management INCORE Investment Grade Convertibles MA	0%	0 CPS	SPR3	CES
Volaris Capital Management LLC Volatility Income Strategy	0%	0 BPS	VOL1	CES
Voya Investment Management - Intermediate Fixed Income SMA	62%	0 BPS	FSC5	CES
Voya Investment Management - Intermediate Fixed Income SMA	62%	0 BPS	FSC-F	UMA
Voya Investment Management Co., LLC.Enhanced Yield Fixed Income	42%	0 BPS	FSC-1	UMA
Voya Investment Management Co., LLC.Enhanced Yield Fixed Income SMA	42%	0 BPS	FSCK	CES
Voya Investment Management Co., LLC.Voya High Yield SMA	38%	0 BPS	INH-H	UMA
Voya Investment Management Co., LLC.Voya High Yield SMA	38%	0 BPS	FSC4	CES
Voya Investment Management Co., LLC.Voya Large Cap Growth	0%	0 BPS	FSCC	CES

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Voya Investment Management Corporate Leaders 100 SMA	0%	0 CPS	FSCB	CES
Walter Scott & Partners Limited EAFE Equity	0%	0 CPS	MOL3	CES
Walden Asset Management Walden SMID Cap Equity	95%	0 CPS	WLM3	ICS
Weaver C. Barksdale & Associates Weaver Core Controlled Risk Fixed	100%	0 BPS	WCB1	CES
Weaver C. Barksdale & Associates Weaver Intermediate Fixed	100%	0 BPS	WCB4	CES
Weaver C. Barksdale & Associates Weaver Short Controlled Risk Fixed	100%	0 BPS	WCB3	CES
WEDGE Capital Management Intermediate Aggregate Fixed Income	0%	0 BPS	WED5	CES
WEDGE Capital Management QVM - Large Cap Value	100%	0 CPS	WED1	ICS
Wells Capital Management Special U.S. Mid Cap Value SMA	0%	0 CPS	WLS3	CES
Wells Capital Management CoreBuilder Municipal	44%	0 CPS	WEL-1	UMA
Wells Capital Management Fundamental All Cap Growth Equity	0%	0 CPS	WEL5	CES
Wells Capital Management Fundamental Large Cap Select Growth	0%	0 CPS	WEL2	CES
Wells Capital Management Fundamental Mid Cap Growth Equity	0%	0 CPS	WEL4	CES
Wells Capital Management Fundamental SMID Cap Growth Equity	0%	0 CPS	WEL3	CES
Wells Fargo funds Management Core Builder Municipal	44%	0 CPS	WELB	CES
West End Advisors Global Balanced	0%	0 BPS	WEA3	CES
West End Advisors Global Equity	0%	0 CPS	WEA2	CES
West End Advisors Large Cap Core Equity	0%	0 CPS	WEA1	CES
West End Advisors US Sector	0%	0 CPS	WEA5	CES
Western Asset Management Company US Core Plus	97%	0 BPS	WTMC	CES
Western Asset Management Corporate Bond Ladder Portfolios (1-10 Years)	97%	0 BPS	WTMF	CES
Western Asset Management Corporate Bond Ladder Portfolios (1-10 Years)	97%	0 BPS	WTM-F	UMA
Western Asset Management Corporate Bond Ladder Portfolios (1-5 Years)	97%	0 BPS	WTME	CES
Western Asset Management Corporate Bond Ladder Portfolios (1-5 Years)	97%	0 BPS	WTM-E	UMA
Western Asset-Legg Mason RETAIL Western Asset Govt/Corp SMA	97%	0 BPS	SAA	CES
Western Asset-Legg Mason RETAIL Western Asset GSM 3 Year Portfolio	97%	0 BPS	WTM-4	UMA
Western Asset-Legg Mason RETAIL Western Asset GSM 3-Year SMA	97%	0 BPS	SAT	CES
Western Asset-Legg Mason RETAIL Western Asset GSM 5 Year Portfolio	97%	0 BPS	WTM-2	UMA
Western Asset-Legg Mason RETAIL Western Asset GSM 5-Year SMA	97%	0 BPS	SAF	CES
Western Asset-Legg Mason RETAIL Western Asset GSM 7-Year SMA	97%	0 BPS	WTM6	CES
Western Asset-Legg Mason RETAIL Western Asset GSM 7 Year Portfolio	97%	0 BPS	WRN-F	UMA
ClearBridge Invest-LeggMasonRETAIL International Value ADR	56%	0.010 CPS	GCI2	CES
Western Asset-Legg Mason RETAIL Western Asset Active Bond Gov/Corp SMA	97%	0 BPS	WTM9	CES

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Western Asset-Legg Mason RETAIL Western Asset Management U.S. High Yield	97%	0 BPS	WTMB	CES
Western Asset-Legg Mason RETAIL Western Asset Active Bond Aggregate	97%	0 BPS	WTM-B	UMA
Western Asset-Legg Mason RETAIL Western Asset Active Bond Aggregate SMA	97%	0 BPS	SBB	CES
Western Asset-Legg Mason RETAIL Western Asset Managed Muni SMA	97%	0 BPS	WTM-G	UMA
Western Asset-Legg Mason RETAIL Western Asset Managed Muni SMA	97%	0 BPS	WTMG	CES
Western Asset-Legg Mason RETAIL Short Term Municipal Fixed Income	97%	0 BPS	WTM-6	UMA
Western Asset-Legg Mason RETAIL Western Asset Active Bond Interim SMA	97%	0 BPS	WTM8	CES
Western Asset-Legg Mason RETAIL Western Asset Core Bond SMA	97%	0 BPS	WTM-9	UMA
Western Asset-Legg Mason RETAIL Western Asset Core Bond SMA	97%	0 BPS	WTM2	CES
Western Asset-Legg Mason RETAIL Western Asset Core Plus SMA	97%	0 BPS	WTM1	CES
Western Asset-Legg Mason RETAIL Western Asset Core Plus Portfolios	97%	0 BPS	WTM-A	UMA
Western Asset-Legg Mason RETAIL Western Asset Current Market Muni SMA	97%	0 BPS	WSN-M	UMA
Western Asset-Legg Mason RETAIL Western Asset Current Market Muni SMA	97%	0 BPS	WTM4	CES
Western Asset-Legg Mason RETAIL Western Asset Enhanced Cash SMA	97%	0 BPS	WEC	CES
Western Asset-Legg Mason RETAIL Western Asset ShortTerm Municipal SMA	97%	0 BPS	WTMA	CES
Westfield Capital Large Cap Growth Equity	88.85%	0 CPS	WES3	CES
Westfield Capital Management All Cap Growth Equity	67.76%	0 CPS	WES4	ICS
Westfield Capital Mid Cap Growth Equity	0%	0 CPS	WES5	CES
Westfield Capital Small Cap Growth Equity	86.90%	0 CPS	WES2	CES
Westfield Capital Small/Mid Cap Growth Equity	82.39%	0 CPS	WES1	CES
Winslow Capital Management Large Cap Growth	0%	0 CPS	WIN1	CES
Zacks Investment Management All Cap Core Strategy	0%	N/A	ZAK1	CES
Ziegler Capital MVP Small Cap Core	0%	0 BPS	MVP1	CES
Ziegler Capital Red Granite Large Cap Growth Equity	0%	0 BPS	RGG2	CES

*These numbers are based on a manual estimate of number of shares typically traded away, for example ADRs, by the UMA Trading Desk.