

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

Morgan Stanley Smith Barney LLC ("Morgan Stanley"), acting as overlay manager, and Executing Sub-Managers participating in some of Morgan Stanley's Separately Managed Account ("SMA") manager programs (together, the "Managers") have the authority to effect 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. Such programs include Consulting and Evaluation Services, Select UMA, and institutional services programs. In addition, even if the price is not more favorable, for the selected such broker-dealer, the Manager may consider other 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 Consulting and Evaluation Services and 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 from each such Manager. Individual client account percentages may vary from the Manager strategy percentage listed below. The information is for calendar year 2020 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 FA/PWA.

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
AAM Insurance Core Advisory (Custom Solution)	100.00%	0 BPS	ALS1	ICS
Advent Capital Management, LLC Phoenix Convertible Income Strategy	100.00%	0 BPS	ADC-2	Select UMA
Advent Capital Management, LLC Balanced Convertible Non-QIB Composi	100.00%	0 BPS	ADC3	CES
Advent Capital Management, LLC Phoenix Convertible Income Advisory	100.00%	0 BPS	ADC2	CES
AllianceBernstein L.P. AB Municipal High Quality Portfolio SMA	96.30%	0 BPS	ALI-J	Select UMA
AllianceBernstein L.P. AB Strategic Research Balanced (MA)	0.00%	0 BPS	REG-B	Select UMA
AllianceBernstein L.P. Tax-Aware Fixed Income (Low TaxBracket)	47.89%	0 BPS	ALI-F	Select UMA
AllianceBernstein L.P. Tax-Aware Fixed Income (Medium TaxBracket)	47.89%	0 BPS	ALI-B	Select UMA
AllianceBernstein L.P. Tax-Aware Fixed Income	47.89%	0 BPS	ALI-C	Select UMA
AllianceBernstein L.P. AB Sustain Global Thematic ADR (MA)	0.00%	0 BPS	ALIO	CES
AllianceBernstein L.P. Tax-Aware Fixed Income (Low TaxBracket)	47.89%	0 BPS	ALI9	CES
AllianceBernstein L.P. Tax-Aware Fixed Income (Medium TaxBracket)	47.89%	0 BPS	ALI8	CES
AllianceBernstein L.P. AB Concentrated US Growth	0.00%	0 BPS	ALIH	CES
AllianceBernstein L.P. AB Concentrated Int'l Growth (MA)	0.00%	0 BPS	ALIM	CES
AllianceBernstein L.P. AB Sustainable Int'l Thematic	0.00%	0 BPS	ALIP	CES
AllianceBernstein L.P. AB Tax Aware Fixed Income (MA)	47.89%	0 BPS	ALI7	CES
AllianceBernstein L.P. AB Municipal High Quality (MA)	96.30%	0 BPS	ALIJ	CES
AllianceBernstein L.P. AB Strategic Research Balanced (MA)	0.00%	0 BPS	ALI3	CES
AllianceBernstein L.P. AB Strategic Research (MA)	0.00%	0 BPS	ALI2	CES
Allspring CoreBuilder Municipal Income	40.00%	0 CPS	WEL-1	Select UMA
Allspring Mid Value	0.00%	0 CPS	WLS3	CES
Allspring CoreBuilder Municipal Income	40.00%	0 CPS	WELB	CES
Allspring SMID Core	0.00%	0 CPS	GLD3	CES
Allspring SMID Growth Equity	0.00%	0 CPS	WEL3	CES
Allspring Fundamental All Cap Growth Equity	0.00%	0 CPS	WEL5	CES
Allspring Large Core	0.00%	0 CPS	GLD1	CES
Allspring Mid Growth Equity	0.00%	0 CPS	WEL4	CES
Allspring Large Select Growth	0.00%	0 CPS	WEL2	CES
AMI Asset Management AMI SMID Cap Growth Equity	0.00%	0 CPS	AMI2	CES
AMI Asset Management AMI Large Cap Growth Equity	0.00%	0 CPS	AMI1	CES
Amundi Pioneer Asset Management Fundamental Growth	0.00%	0 CPS	POI1	CES
Anchor Capital Advisors LLC Balanced Wrap	0.00%	0 CPS	ACP1	CES
Anchor Capital Advisors LLC Mid Cap Value	0.00%	0 CPS	ACP2	CES
Ancora Advisors Ancora/Thelen Small Mid Cap	0.00%	0 BPS	NOA1	CES
Aperio Group LLC Aperio Group Custom Strategies	0.00%	0 BPS	APR6	CES
Aperio Group LLC Developed World	0.00%	0 BPS	APR5	CES
Aperio Group LLC Full Custom Total US Market SRI	0.00%	0 BPS	APR4	CES
Aperio Group LLC Total U.S. Market SRI	0.00%	0 BPS	APR3	CES
Appleton Partners, Inc. Municipal Bond	100.00%	0 CPS	APP-3	Select UMA

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Appleton Partners, Inc. Municipal Bond	100.00%	0 CPS	APP4	CES
Aristotle Capital Boston, LLC Small/Mid Cap Equity	0.00%	0 CPS	ABO1	CES
Aristotle Capital Management, LLC International Equity - ADR	0.00%	0 CPS	RCB5	CES
Aristotle Capital Management, LLC Value Equity	0.00%	0 CPS	RCB4	CES
Asset Preservation Advisors HQ Intm Tax Exempt	100.00%	0 CPS	APD-1	Select UMA
Asset Preservation Advisors APA High Quality Intermediate	100.00%	0 CPS	APD1	CES
Associated Trust Company Associated Intermediate-Term Bond	0.00%	0 CPS	ABA2	ICS
Associated Trust Company Associated Core Bond Composite (CF)	0.00%	0 CPS	ABA1	ICS
Atalanta Sosnoff Capital LLC Intermediate Duration Fixed	69.14%	0 BPS	ASF-4	Select UMA
Atalanta Sosnoff Capital LLC Intermediate Duration Fixed	69.14%	0 BPS	ASF4	CES
Atalanta Sosnoff Capital LLC Balanced	0.00%	0 BPS	ASF2	CES
Atalanta Sosnoff Capital LLC Large Cap Equity	0.00%	0 CPS	ASF1	CES
Atalanta Sosnoff Capital LLC Intermediate Duration Fixed Income	69.14%	0 BPS	ASF3	ICS
Atlanta Capital Management Co., LLC High Quality Select Equity	0.00%	0 CPS	ATA4	CES
Atlanta Capital Management Co., LLC High Quality Calvert Equity (MA)	0.00%	0 CPS	ATA5	CES
Bahl & Gaynor, Inc. Income Growth	0.00%	0 CPS	BAH1	CES
Bares Capital Management, Inc. Bares Capital Small Cap Equity	39.00%	0.007 CPS	BAE1	CES
BlackRock Municipal Ladder SMA 10-20 Year	100.00%	0 CPS	BLK-J	Select UMA
BlackRock Municipal Ladder SMA 5-15 Year	100.00%	0 CPS	BLK-K	Select UMA
BlackRock Municipal Ladder SMA 1-10 Year	100.00%	0 CPS	BLK-M	Select UMA
BlackRock Municipal Ladder SMA 1-5 Year	100.00%	0 CPS	BLK-L	Select UMA
BlackRock PPM Global Fixed Income SMA	100.00%	0 CPS	BLK-E	Select UMA
BlackRock PPM Intermediate Taxable FI - SMA	100.00%	0 CPS	BLK-6	Select UMA
BlackRock Short Term Taxable Fixed Income SMA	100.00%	0 CPS	BLK-9	Select UMA
BlackRock PPM Short Term Muni - SMA	100.00%	0 CPS	BLK-8	Select UMA
BlackRock PPM Long Term Muni - SMA	100.00%	0 CPS	BLK-7	Select UMA
BlackRock PPM Intermediate Muni - SMA	100.00%	0 CPS	BLK-4	Select UMA
BlackRock PPM Fundamental Core Taxable SMA	100.00%	0 CPS	BLK-3	Select UMA
BlackRock Short Duration for Managed Accounts	100.00%	0 CPS	BAK-F	Select UMA
BlackRock Core Bond for Managed Accounts w/ BATS	100.00%	0 CPS	BLR-F	Select UMA
BlackRock Municipal Ladder SMA 10-20 Year	100.00%	0 CPS	BLKJ	CES
BlackRock Municipal Ladder SMA 5-15 Year	100.00%	0 CPS	BLKK	CES
BlackRock Municipal Ladder SMA 1-10 Year	100.00%	0 CPS	BLKM	CES
BlackRock Municipal Ladder SMA 1-5 Year	100.00%	0 CPS	BLKL	CES
BlackRock International Dividend ADR	0.00%	0 CPS	BLKF	CES
BlackRock Large Cap Value w/Catholic Values	0.00%	0 CPS	BLK17	CES
BlackRock Global Dividend w/Catholic Values	0.00%	0 CPS	BLK16	CES
BlackRock Equity Dividend w/Catholic Values	0.00%	0 CPS	BLK15	CES
BlackRock Global Dividend Income - SMA	0.00%	0 CPS	BLK2	CES

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BlackRock Global Fixed Income - SMA	100.00%	0 CPS	BLKE	CES
BlackRock Core Bond w/ BATS - SMA	100.00%	0 CPS	BLK12	CES
BlackRock Equity Dividend - SMA	0.00%	0 CPS	BLK1	CES
BlackRock Large Cap Value - SMA	0.00%	0 CPS	BLK4	CES
BlackRock Customized Core Bond	100.00%	0 CPS	BLK14	CES
BlackRock Long Term Muni - SMA	100.00%	0 CPS	BLK8	CES
BlackRock Intermediate Taxable FI - SMA	100.00%	0 CPS	BLK7	CES
BlackRock Intermediate Muni - SMA	100.00%	0 CPS	BLK6	CES
BlackRock Fundamental Core Taxable SMA	100.00%	0 CPS	BLK5	CES
BlackRock Short Term Taxable Fixed Income SMA	100.00%	0 CPS	BLK3	CES
BlackRock Short Term Muni - SMA	100.00%	0 CPS	BLK9	CES
BlackRock Intermediate Duration Portfolios	100.00%	0 CPS	BAK2	CES
BlackRock Large Cap Core - SMA	0.00%	0 CPS	BLK10	CES
Boston Partners Mid Cap Value Equity	0.00%	0 CPS	RBE3	CES
Boston Partners Large Cap Value Eq	0.00%	0 CPS	RBE2	CES
Boston Partners Small/Mid Cap Val Eq	0.00%	0 CPS	RBE1	CES
Boyd Watterson Asset Management, LLC Ultra Enhanced Core SMA Fixed Income	100.00%	0 BPS	BYD-F	Select UMA
Boyd Watterson Asset Management, LLC Investment Grade Intermediate	99.50%	0 CPS	BOY-F	Select UMA
Boyd Watterson Asset Management, LLC Investment Grade Intermediate	100.00%	0 CPS	BOY3	CES
Boyd Watterson Asset Management, LLC Ultra Enhanced Core SMA Fixed Income	100.00%	0 BPS	BOY2	CES
Brandes Investment Partners Global Balanced Value	29.91%	7 - 25 BPS	BRN-B	Select UMA
Brandes Investment Partners US Value Equity	2.46%	0.5 - 2 CPS	BRNB	CES
Brandes Investment Partners Emerging Markets Equity	52.15%	10 - 25 BPS	BRN9	CES
Brandes Investment Partners Enhanced Income	29.77%	12.5 - 15 BPS	BRN8	CES
Brandes Investment Partners Global Equity	35.22%	7 - 25 BPS	BRN5	CES
Brandes Investment Partners International Equity	66.70%	7 - 20 BPS	BRN4	CES
Brandes Investment Ptnrs - SMA Div Emerging Markets Value Eq - SMA	0.00%	0 BPS	BRN3	CES
Brandywine Global Investment Managem Global Fixed Income Investment Grade	0.00%	0 BPS	BRW2	CES
Brandywine Global Investment Managem Classic Large Cap Value	0.00%	0 CPS	BRW3	CES
Breckinridge Capital Advisors Intermediate Government Credit Gender Lens	100.00%	0 CPS	BRK-5	Select UMA
Breckinridge Capital Advisors Intermediate Government Credit Gender Lens	100.00%	0 CPS	BRK5	CES
Breckinridge Capital Advisors, Inc. Intermediate Tax Efficient Sustainable	100.00%	0 CPS	BRK-4	Select UMA
Breckinridge Capital Advisors, Inc. Intermediate Sustainable Gov Credit	100.00%	0 CPS	BRK-3	Select UMA
Breckinridge Capital Advisors, Inc. Intermediate Term Taxable Bond Strategy	99.00%	0 CPS	BRK-1	Select UMA
Breckinridge Capital Advisors, Inc. Intermediate Tax-Efficient	100.00%	0 CPS	BRK-M	Select UMA
Breckinridge Capital Advisors, Inc. Intermediat Sustainable TaxEfficient	100.00%	0 CPS	BRK4	CES
Breckinridge Capital Advisors, Inc. Intermediate Sustainable Gov Credit	100.00%	0 CPS	BRK3	CES
Breckinridge Capital Advisors, Inc. Intermediate Government Credit	99.00%	0 CPS	BRK2	CES
Breckinridge Capital Advisors, Inc. Intermediate Tax-Efficient	100.00%	0 CPS	BRK1	CES

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Brookfield Public Securities Grp LLC Center Coast Brookfield MLP SMA	0.00%	0 CPS	COA1	CES
Brown Advisory Brown Advisory Large Cap Sust Growth	0.00%	0 CPS	BWN2	CES
Calamos Advisors LLC Calamos U.S. Convertible 80/20 Strategy	88.00%	0 BPS	CMS-C	Select UMA
Calamos Advisors LLC Convertible 100% SMA Strategy	95.00%	0 BPS	CAL-C	Select UMA
Calamos Advisors LLC Calamos U.S. Convertible Strategy	92.00%	0 BPS	CMS1	CES
Calvert Investment Management Small Cap	0.00%	0 CPS	CAV1	CES
Cambiar Investors LLC Europe Select	0.00%	0 BPS	CBR8	CES
Cambiar Investors LLC SMID Value	0.00%	0 BPS	CBR4	CES
Cambiar Investors LLC Global Equity	0.00%	0 BPS	CBR6	CES
Cambiar Investors LLC International Equity ADR	60.00%	0 - 7 BPS	CBR3	CES
Cambiar Investors LLC Large Cap Value Equity	0.00%	0 BPS	CBR1	CES
Cambiar Investors LLC Small Cap Value	0.00%	0 BPS	CBR2	CES
Capital Group Capital Group Long Municipal SMA	100.00%	0 CPS	CPG-8	Select UMA
Capital Group Capital Group Intermediate Muni SMA	100.00%	0 CPS	CPG-7	Select UMA
Capital Group Short Municipal SMA	100.00%	0 CPS	CPG-6	Select UMA
Capital Group International Growth SMA	0.00%	0 CPS	CPGD	CES
Capital Group Global Growth ADR	0.00%	0 CPS	CPGC	CES
Capital Group Capital Group U.S. Growth SMA	0.00%	0 CPS	CPGB	CES
Capital Group Capital Group US Income & Growth SMA	0.00%	0 CPS	CPGA	CES
Capital Group Capital Group Long Municipal SMA	100.00%	0 CPS	CPG8	CES
Capital Group Capital Group Intermediate Muni SMA	100.00%	0 CPS	CPG7	CES
Capital Group Short Municipal Bond SMA	100.00%	0 CPS	CPG6	CES
Capital Group Capital Group World Div Grower SMA	22.25%	2 -3 CPS	CPG5	CES
Capital Group Capital Group Intl. Equity SMA	57.12%	3 - 4 CPS	CPG1	CES
Capital Group Capital Group Global Equity SMA	0.84%	2 CPS	CPG4	CES
Capital Group Capital Group PCS U.S. Equity	0.00%	0 CPS	CPG2	CES
Capital Group Capital Group PCS Intl. Equity	0.00%	0 CPS	CPG3	CES
CenterSquare Investment Management U.S. REIT Separate Account	0.99%	0 CPS	CSQ1	ICS
Chartwell Investment Partners Mid Cap Value	0.00%	0 CPS	WOLC	CES
Chartwell Investment Partners Short Duration BB High Yield Fixed	100.00%	0 CPS	WOLD	ICS
Chartwell Investment Partners Intermediate Fixed Income	100.00%	0 CPS	WOLA	ICS
Chilton Investment Services, LLC Short Term Taxable	100.00%	0 CPS	IGF-4	Select UMA
Chilton Investment Services, LLC Taxable	100.00%	0 CPS	IGF-3	Select UMA
Chilton Investment Services, LLC Short Term Crossover Municipal	100.00%	0 CPS	IGF-2	Select UMA
Chilton Investment Services, LLC Crossover Municipal	100.00%	0 CPS	IGF-1	Select UMA
Chilton Investment Services, LLC Global	100.00%	0 CPS	IGF-5	Select UMA
Chilton Investment Services, LLC Global	100.00%	0 CPS	IGF5	CES
Chilton Investment Services, LLC Short Term Taxable	100.00%	0 CPS	IGF4	CES
Chilton Investment Services, LLC Taxable	100.00%	0 CPS	IGF3	CES

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Chilton Investment Services, LLC Short Term Crossover Municipal	100.00%	0 CPS	IGF2	CES
Chilton Investment Services, LLC Crossover Municipal	100.00%	0 CPS	IGF1	CES
Cincinnati Asset Management, Inc. Short Duration Fixed Income	100.00%	0 BPS	CIN-1	Select UMA
Cincinnati Asset Management, Inc. Investment Grade Fixed Income	100.00%	0 BPS	CNI-F	Select UMA
Cincinnati Asset Management, Inc. High Yield Corporate Fixed-Income	100.00%	0 BPS	CIN-H	Select UMA
Cincinnati Asset Management, Inc. Broad Market Corporate Bond Program	100.00%	0 BPS	CNI-5	Select UMA
Cincinnati Asset Management, Inc. Short Duration Fixed Income	100.00%	0 BPS	CIN4	CES
Cincinnati Asset Management, Inc. Investment Grade Fixed Income	100.00%	0 BPS	CIN3	CES
Cincinnati Asset Management, Inc. Broad Market Corporate Bond Program	100.00%	0 BPS	CIN2	CES
Cincinnati Asset Management, Inc. High Yield Corporate Fixed-Income	100.00%	0 BPS	CIN1	CES
Clarkston Capital Partners, LLC SMID Cap Strategy	0.00%	0 CPS	CKC1	ICS
ClearBridge International Value ADR	100.00%	0 - 0.68 CPS	GCI2	CES
ClearBridge Small Cap (MA)	0.00%	0 CPS	CLDV	CES
ClearBridge Dividend Strategy ESG MA	0.00%	0 CPS	CBEP	CES
ClearBridge Intl Growth ADR ESG (MA)	51.30%	0.17 CPS	CLD17	CES
ClearBridge LargeCapGr ESGCatholic	50.04%	0.349 CPS	CLD21	CES
ClearBridge AllCapVal ESGCatholic	0.00%	0 CPS	CLD20	CES
ClearBridge LargeCapVal ESGCatholic	81.47%	1.11 CPS	CLD19	CES
ClearBridge All Cap Value (MA)	0.00%	0 CPS	SAJ	CES
ClearBridge Large Cap Value (MA)	14.57%	0.54 CPS	CLD5	CES
ClearBridge Multi Cap Growth ESG MA	4.46%	1.61 CPS	CLD16	CES
ClearBridge All Cap Value ESG (MA)	0.00%	0 CPS	CLD15	CES
ClearBridge Intl Growth ADR (MA)	77.04%	1.23 CPS	CLD7	CES
ClearBridge Large Cap Value ESG MA	48.02%	1.08 CPS	CLD14	CES
ClearBridge Multi Cap Growth (MA)	37.26%	1.649 CPS	CLD1	CES
ClearBridge Mid Cap (MA)	86.38%	0.029 CPS	CLD6	CES
ClearBridge Small Cap Growth (MA)	100.00%	0 CPS	CLDM	CES
ESG Large Cap Growth	38.58%	1.379 CPS	CLD4	CES
ClearBridge All Cap Growth (MA)	0.00%	0 CPS	CLDD	CES
ClearBridge Appreciation ESG	72.50%	1.11 CPS	CLD11	CES
ClearBridge Appreciation	99.41%	1.08 CPS	SBH	CES
ClearBridge Large Cap Growth (MA)	38.58%	1.379 CPS	SAX	CES
ClearBridge Dividend Strategy (MA)	35.63%	1.55 CPS	SBO	CES
Cohen & Steers Capital Mgmt., Inc. Institutional & Exchange-Traded Preferred Securities	0.00%	0 CPS	CSE1	CES
Cohen & Steers Capital Mgmt., Inc. Cohen & Steers US Realty Total Ret	0.00%	0 BPS	CSE3	CES
Pacific Investment Mgmt. Co Liability Driven Investing	0.00%	0 BPS	CMP5	CES
Columbia Management Investments Select Large Cap Grwth Wrap	0.00%	0 BPS	MCO3	CES
Columbia Management Investments Dividend Opportunity Model	0.00%	0 BPS	CMP4	CES
Columbia Management Investments Dividend Income (MA)	0.00%	0 BPS	CMP2	CES

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Columbia Management Investments Focused Large Cap Value	0.00%	0 BPS	SEL4	CES
Columbia Management Investments Contrarian Large Cap Core	0.00%	0 BPS	CMP3	CES
Community Capital Management, Inc. Core Fixed Income Composite	93.70%	0 CPS	CMU-1	Select UMA
Community Capital Management, Inc. Core Fixed Income Composite	93.70%	0 CPS	CMU1	CES
Confluence Investment Management Large Cap Value	0.00%	0 CPS	FLU1	CES
Confluence Investment Management Small Cap Value	0.00%	0 CPS	FLU2	CES
Congress Asset Management Company Small Cap Growth	0.00%	0 CPS	CSA6	CES
Congress Asset Management Company Mid Cap Growth	0.00%	0 CPS	CSA4	CES
Congress Asset Management Company Balanced Portfolio	0.00%	0 CPS	CSA3	CES
Congress Asset Management Company Large Cap Growth	0.00%	0 CPS	CSA1	CES
Connors Investor Services, Inc. Covered Call	0.00%	0 BPS	CON1	CES
Cooke & Bieler, L.P. Large Cap Value Equity	0.00%	0 BPS	COO1	CES
Copeland Capital Management, LLC SMID Cap Dividend Growth	0.00%	0 CPS	CCN1	CES
Cove Street Capital, LLC Classic Value Small Cap Plus	0.00%	0 CPS	CVC2	CES
Credit Suisse Asset Management Intermediate Tax-Advantaged FI	100.00%	0 BPS	CDX-2	Select UMA
Credit Suisse Asset Management Limited Duration Tax-Advantaged FI	100.00%	0 BPS	CDX-1	Select UMA
Credit Suisse Asset Management Limited Duration Tax-Advantaged FI	100.00%	0 BPS	CDX1	CES
Credit Suisse Asset Management Intermediate Tax-Advantaged FI	100.00%	0 BPS	CDX2	CES
Crossmark Global Investments Custom SRI International Equity Index	0.00%	0 CPS	CPS4	ICS
Crossmark Global Investments Custom SRI Equity Index	0.00%	0 CPS	CPS3	ICS
CS McKee Aggregate Fixed Income	0.00%	0 BPS	CSM1	CES
Cumberland Advisors, Inc. Total Return Taxable Fixed Inc	100.00%	0 CPS	CUM-2	Select UMA
Cumberland Advisors, Inc. Total Return Muni B	100.00%	0 CPS	CUM-1	Select UMA
Cumberland Advisors, Inc. Total Return Taxable Fixed Inc	100.00%	0 CPS	CUM2	CES
Cumberland Advisors, Inc. Total Return Tax-Free Municipal Bond	100.00%	0 CPS	CUM1	CES
D.F. Dent & Company, Inc. Small Cap Growth	0.00%	0 CPS	DFD2	CES
D.F. Dent & Company, Inc. Mid Cap Growth	0.00%	0 CPS	DFD1	CES
Davis Advisors Davis Global ADR SMA	0.00%	0 CPS	DSA4	CES
Davis Advisors Davis Multi Cap Equity	0.00%	0 CPS	DSA2	CES
Davis Advisors Davis Large Cap Value	0.00%	0 CPS	DSA1	CES
Dearborn Partners, LLC Dearborn Core Rising Dividend	0.00%	0 BPS	DRB1	CES
Delaware / Macquarie US Smid Cap Focus-Gr (SMA)	0.00%	0 CPS	DCM-A	Select UMA
Delaware / Macquarie Low Duration Gov Only	99.00%	0 CPS	ALC-F	Select UMA
Delaware / Macquarie Intermediate Term Gov Fixed	99.00%	0 CPS	ACI-A	Select UMA
Delaware / Macquarie US Govt Low Dur FI (SMA)	99.00%	0 CPS	ACI7	CES
Delaware / Macquarie US Govt Int Agg Bond (SMA)	99.00%	0 CPS	ACI4	CES
Delaware / Macquarie US Sml Cap Value Eq (SMA)	31.00%	0 CPS	DCM3	CES
Delaware / Macquarie US Large Cap Growth Equity	0.00%	0 CPS	DCM1	CES
Delaware / Macquarie Intl ADR Eq-Mondrian (SMA)	82.00%	0 - 6 BPS	DCM2	CES

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Delaware / Macquarie US Smid Cap Focus-Gr (SMA)	0.00%	0 CPS	DCM5	CES
Delaware / Macquarie US Large Cap Value Equity	30.00%	0 CPS	DCM4	CES
Dolan McEniry Capital Mgmt., LLC Core Plus	100.00%	0 CPS	DLM-2	Select UMA
Dolan McEniry Capital Mgmt., LLC Credit	100.00%	0 CPS	DLM-1	Select UMA
Dolan McEniry Capital Mgmt., LLC Core Plus	100.00%	0 CPS	DLM2	CES
Dolan McEniry Capital Mgmt., LLC Credit	100.00%	0 CPS	DLM1	CES
Dorsey Wright Systematic Relative Strength Int'l	0.00%	0 BPS	DOW3	CES
Eagle Asset Management Mid Cap Growth - Retail (MA)	0.00%	0 CPS	EAG6	CES
Eagle Asset Management Equity Income (MA)	0.00%	0 CPS	EAG7	CES
Eagle Asset Management Small Cap Growth - Retail (MA)	0.00%	0 CPS	EAG4	CES
Eagle Capital Management Eagle Equity	0.00%	0 CPS	ECM1	CES
Earnest Partners, LLC Small/Mid Cap Core Equity	0.00%	0 CPS	EPL4	CES
Earnest Partners, LLC Mid Cap Value Equity	0.00%	0 CPS	EPL2	CES
Earnest Partners, LLC Small Cap Value Equity	0.00%	0 CPS	EPL3	CES
Parametric U.S. Corporate Ladder Long	100.00%	0 BPS	EATC	CES
Parametric U.S. Corporate Ladder Intermediate	100.00%	0 BPS	EATB	CES
Parametric U.S. Corporate Ladder Short	100.00%	0 BPS	EATA	CES
Eaton Vance Management Investment Grade Aggregate Core Bond	100.00%	0 CPS	EAT8	CES
Parametric TABS Municipal Ladder Short	100.00%	0 BPS	EAT6	CES
Parametric TABS Municipal Ladder Intermediate	100.00%	0 BPS	EAT7	CES
Parametric TABS Total Return Intermediate	100.00%	0 BPS	ETN	CES
Parametric TABS Total Return Long	100.00%	0 BPS	EAT5	CES
Eaton Vance Management U.S. Small-Cap Equity	0.00%	0 CPS	EVA7	CES
Eaton Vance Management Investment Grade Intermediate Core	100.00%	0 CPS	EVAD	CES
Eaton Vance Management Large-Cap Value Equity	0.00%	0 CPS	EVA3	CES
Parametric TABS Municipal Long	100.00%	0 BPS	EAT4	CES
Parametric TABS Municipal Intermediate	100.00%	0 BPS	EAT3	CES
Parametric TABS Municipal Short	100.00%	0 BPS	EVA8	CES
Eaton Vance Management Investment Grade Aggregate Core Bond	100.00%	0 CPS	EATG	ICS
Edge Asset Management Equity Income SMA	0.00%	0 BPS	EDA3	CES
Edge Asset Management SMA EDGE SMID DIVIDEND INCOME	0.00%	0 BPS	EDA2	CES
Edgewood Management LLC Large Cap Growth	0.00%	0 BPS	EDG1	CES
Energy Income Partners Energy Infrastructure & MLP SMAs	0.00%	0 CPS	ENE2	CES
Epoch Investment Partners, Inc. Global Equity Shareholder Yield	0.00%	0 BPS	MNY1	CES
Equity Investment Corporation Large-Cap Value Equity	0.00%	0 CPS	EIC2	CES
Equity Investment Corporation All-Cap Value Equity	0.00%	0 CPS	EIC1	CES
Fayez Sarofim & Co. Global Equity	0.00%	0 CPS	FAY3	CES
Fayez Sarofim & Co. Large Cap Equity	0.00%	0 CPS	FAY1	CES
Federated Hermes, Inc. Core Plus SMA	100.00%	0 BPS	FED-6	Select 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
Federated Hermes, Inc. MDT Mid Cap Growth SMA	0.00%	0 BPS	MTA5	CES
Federated Hermes, Inc. MDT Tax Aware ACC SMA	0.00%	0 BPS	MTA1	CES
Federated Hermes, Inc. MDT All Cap Core SMA	0.00%	0 BPS	MTA2	CES
Federated Hermes, Inc. MDT Large Cap Value Inst	0.00%	0 BPS	MDT1	CES
Federated Hermes, Inc. MDT Small Cap Value SMA	0.00%	0 BPS	MTA3	CES
Federated Hermes, Inc. Int Strat Val Div ADR SMA	0.00%	0 BPS	FED2	CES
Federated Hermes, Inc. Core Plus SMA	0.00%	0 BPS	FED6	CES
Federated Hermes, Inc. Clover Small Cap Value	0.00%	0 BPS	CLV5	CES
Federated Hermes, Inc. Strategic Value Div SMA	0.00%	0 BPS	FED1	CES
Federated Hermes, Inc. Clover All Cap Value	41.00%	0 BPS	CLV4	CES
Federated Hermes, Inc. MDT Small Cap Core	0.00%	0 BPS	MTA8	ICS
Federated Hermes, Inc. Core Aggregate Fixed Income (MA)	100.00%	0 BPS	FED5	ICS
Fiduciary Mgmt., Inc. of Milwaukee All Cap Equity	0.00%	0 BPS	FMI2	ICS
Fiduciary Mgmt., Inc. of Milwaukee Large Cap	0.00%	0 CPS	FMI1	ICS
Fiduciary Mgmt., Inc. of Milwaukee Small Cap Equity	0.00%	0 CPS	FMI3	ICS
Fiera Capital Inc. Tax Efficient Core Plus Enhanced	85.00%	0 CPS	APX5	CES
Fiera Capital Inc. Small Cap Growth	0.00%	0 CPS	APX2	CES
Fiera Capital Inc. Small-Mid Growth	0.00%	0 CPS	APX4	CES
Foundry Partners, LLC All Cap Value	94.80%	0 CPS	FPT1	CES
Foundry Partners, LLC Foundry Partners Micro Cap Value	76.10%	0 CPS	FTP3	ICS
Franklin Templeton Investments Franklin Inter Municipal FI SMA	100.00%	0 BPS	FKM-M	Select UMA
Franklin Templeton Investments Intermediate Term Fixed Income	10.00%	0 BPS	FKM-F	Select UMA
Franklin Templeton Investments Franklin DynaTech SMA	100.00%	0 BPS	TPA7	CES
Franklin Templeton Investments Intl ORD Equity SMA	0.00%	0 CPS	FKM6	CES
Franklin Templeton Investments Franklin Inter Municipal FI SMA	100.00%	0 BPS	FKM9	CES
Franklin Templeton Investments Templeton Intl ADR Equity SMA	0.00%	0 BPS	TPAG	CES
Franklin Templeton Investments Franklin Intermediate FI SMA	10.00%	0 BPS	FKMC	CES
Franklin Templeton Investments Franklin Small Cap Growth SMA	0.00%	0 BPS	FKM1	CES
Frontier Capital Management Co., LLC Frontier Capital Appreciation	0.00%	0 CPS	FCM5	CES
Frontier Capital Management Co., LLC Mid Cap Growth	30.60%	2.2 CPS	FCM2	CES
Fuller & Thaler Asset Management, Inc Behavioral Small-Cap Equity	0.00%	0 CPS	FUT3	CES
Fuller & Thaler Asset Management, Inc Small Cap Value	0.00%	0 CPS	FUT1	CES
Fuller & Thaler Asset Management, Inc Small Cap Growth	0.00%	0 CPS	FUT2	CES
Gabelli Asset Management Company Gabelli All Cap Value	0.00%	0 BPS	GAM1	CES
Galliard Capital Management Short Intermediate Core Total Comp.	100.00%	0 CPS	GRD7	CES
Galliard Capital Management Intermediate Govt/Credit Composite	100.00%	0 CPS	GRD5	CES
Galliard Capital Management Broad Market Core Composite	100.00%	0 CPS	GRD6	CES
Garcia Hamilton & Assoc formerly DHJ Fixed Income - Short Duration Opp.	100.00%	0 CPS	DHI4	CES
Garcia Hamilton & Assoc formerly DHJ Fixed Income - Aggregate	85.03%	0 CPS	DHI5	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
Garcia Hamilton & Assoc formerly DHJ Fixed Income - Intermediate G/C	47.96%	0 CPS	DHI3	CES
Geneva Capital Management LLC US Small Cap Growth	0.00%	0 CPS	GNC1	CES
Geneva Capital Management LLC US Mid Cap Growth	0.00%	0 CPS	GNC2	CES
GIS - BlackRock PPM Municipal Bond Portfolio	100.00%	0 CPS	BLK-W	Select UMA
GIS - Chilton Crossover Fixed Strategy	100.00%	0 CPS	GIF-D	Select UMA
GIS - Chilton Tax-Advantaged Liquidity Strategy	100.00%	0 BPS	GIF-B	Select UMA
GIS - Chilton Global Inflation-Linked Strategy	100.00%	0 BPS	GIF-7	Select UMA
GIS - Chilton Taxable Fixed Strategy	100.00%	0 BPS	GIF-3	Select UMA
GIS - Chilton Taxable Liquidity Strategy	100.00%	0 BPS	GIF-1	Select UMA
GMO Intl All Country Equity Allocation	0.00%	0 CPS	GMV3	ICS
Goldman Sachs Asset Mgmt. Tax Advantaged Core – MSCI EAFE ADR	0.00%	0 CPS	GOL-5	Select UMA
Goldman Sachs Asset Mgmt. Tax Advantaged Core – Russell 3000	0.00%	0 CPS	GOL-4	Select UMA
Goldman Sachs Asset Mgmt. Tax Advantaged Core - S&P 500	0.00%	0 CPS	GSA-1	Select UMA
Goldman Sachs Asset Mgmt. US Mid Cap Value	0.00%	0 CPS	GOL-S	Select UMA
Goldman Sachs Asset Mgmt. Tax Advantaged Core – MSCI EAFE ADR	0.00%	0 CPS	GOL5	CES
Goldman Sachs Asset Mgmt. Tax Advantaged Core – Russell 3000	0.00%	0 CPS	GOL4	CES
Goldman Sachs Asset Mgmt. Tax Advantaged Core - S&P 500	0.00%	0 CPS	GSA1	CES
Goldman Sachs Asset Mgmt. US Mid Cap Value	0.00%	0 CPS	GOL3	CES
Goldman Sachs Asset Mgmt. US Strategic Growth	0.00%	0 CPS	GOL2	CES
Great Lakes Advisors, LLC. Disciplined TaxManaged AllCap (MA)	0.00%	0 CPS	AIP-3	Select UMA
Great Lakes Advisors, LLC. Disciplined SMidCap Catholic Values	0.00%	0 CPS	AIPA	CES
Great Lakes Advisors, LLC. SMidCap ESG	0.00%	0 CPS	AIP8	CES
Great Lakes Advisors, LLC. Climate Opportunities	0.00%	0 CPS	AIP7	CES
Great Lakes Advisors, LLC. LargeCap Catholic	0.00%	0 CPS	AIP6	CES
Great Lakes Advisors, LLC. Disciplined TaxManaged LargeCap	0.00%	0 CPS	AIP1	CES
Great Lakes Advisors, LLC. LargeCap ESG	0.00%	0 CPS	AIP4	CES
Great Lakes Advisors, LLC. Disciplined SMidCap	0.00%	0 CPS	AIP5	CES
Great Lakes Advisors, LLC. Disciplined LargeCap	0.00%	0 CPS	AIP3	CES
Great Lakes Advisors, LLC. Disciplined AllCap	0.00%	0 CPS	AIP2	CES
GW&K Investment Management, LLC 2-8 Year Active Muni Strategy	100.00%	0 CPS	GAN-5	Select UMA
GW&K Investment Management, LLC Municipal Bond Strategy	100.00%	0 CPS	GAN-3	Select UMA
GW&K Investment Management, LLC 2-8 Year Active Municipal Bond	100.00%	0 CPS	GAN5	CES
GW&K Investment Management, LLC Small/Mid Cap Core Strategy	0.00%	0 CPS	GAN2	CES
GW&K Investment Management, LLC Municipal Bond Strategy	100.00%	0 CPS	GAN4	CES
GW&K Investment Management, LLC Small Cap Core Strategy	0.00%	0 CPS	GAN1	CES
Hahn Capital Management Hahn Mid Cap Value	0.00%	0 CPS	HAH1	CES
Hamlin Capital Management, LLC Equity Income Strategy	0.00%	0 BPS	HHM2	CES
Harding Loevner LP Global Equity ADR	99.00%	2 - 3 BPS	HLM2	CES
Harding Loevner LP International Equity ADR	49.00%	6 - 7 BPS	HLM1	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
Harris Associates L.P. Concentrated Value Equity	0.00%	0 BPS	HRA1	ICS
Harvest Volatility Management, LLC Collateral Yield Enhancement	0.00%	0 CPS	HVL1	CES
HGK Asset Management, Inc. HGK Small Cap Value	0.00%	0 BPS	HGK1	CES
HGK Asset Management, Inc. Large Cap Value	0.00%	0 BPS	HGK2	CES
HGK Asset Management, Inc. International Equity	0.00%	0 BPS	HGK7	ICS
Hoisington Investment Management Co. Macroeconomic Fixed Income	100.00%	0 CPS	HOI1	ICS
Horizon Kinetics Asset Mgmt., LLC Core Value	0.00%	0 BPS	HOR1	CES
Income Research & Management, Inc. IR+M Core Municipal	0.00%	0 CPS	IRM1	CES
IndexIQ Advisors LLC. IQ Hedge Multi-Strategy Tracker ETF	0.00%	0 CPS	IIQ1	CES
Ingalls & Snyder LLC Fundamental Equity Advisors SMID	0.00%	0 CPS	IGL3	CES
Ingalls & Snyder LLC Fundamental Equity Advisors All-Cap	0.00%	0 CPS	IGL2	CES
Invesco Long Municipal Income SMA/WRAP	0.00%	0 CPS	IVC-C	Select UMA
Invesco Intermed Term Muni Income SMA/WRAP	0.00%	0 CPS	IVC-B	Select UMA
Invesco Limited Term Municipal Inc SMA/WRAP	100.00%	0 CPS	IVC-A	Select UMA
Invesco Long Municipal Income SMA/WRAP	0.00%	0 CPS	IVCC	CES
Invesco Intermed Term Muni Income SMA/WRAP	0.00%	0 CPS	IVCB	CES
Invesco Limited Term Municipal Inc SMA/WRAP	100.00%	0 CPS	IVCA	CES
Invesco Growth and Income SMA/WRAP	0.00%	0 CPS	IVC9	CES
Invesco Diversified Dividend	0.00%	0 CPS	IVC7	CES
Invesco International ADR Growth - SMA/WRAP	0.00%	0 CPS	IVC3	CES
Invesco US REITs	96.70%	0 CPS	IVC2	CES
J.P. Morgan Asset Management Municipal Ladder Yield Curve Enhanced	0.00%	0 CPS	FLM-4	Select UMA
J.P. Morgan Asset Management Municipal Ladder 1-5 Year	0.00%	0 CPS	FLM-1	Select UMA
J.P. Morgan Asset Management Municipal Ladder 1-17 Year	0.00%	0 CPS	FLM-3	Select UMA
J.P. Morgan Asset Management Municipal Ladder 1-10 Year	0.00%	0 CPS	FLM-2	Select UMA
J.P. Morgan Asset Management Intermediate Municipal Bond - MA	0.00%	0 CPS	FIM-M	Select UMA
J.P. Morgan Asset Management Equity Income - MA	0.00%	0 BPS	FLM9	CES
J.P. Morgan Asset Management US Value SMA	0.00%	0 CPS	FLML	CES
J.P. Morgan Asset Management Growth Advantage SMA	0.00%	0 BPS	FLMK	CES
J.P. Morgan Asset Management Municipal Ladder Yield Curve Enhanced	0.00%	0 CPS	FLM8	CES
J.P. Morgan Asset Management Municipal Ladder 1-17 Year	0.00%	0 CPS	FLM7	CES
J.P. Morgan Asset Management Municipal Ladder 1-10 year	0.00%	0 CPS	FLM6	CES
J.P. Morgan Asset Management Municipal Ladder 1-5 Year	0.00%	0 CPS	FLM5	CES
J.P. Morgan Asset Management Value Advantage - MA	0.00%	0 BPS	FLMC	CES
J.P. Morgan Asset Management Mid Cap Growth	0.00%	0 BPS	FLMJ	CES
J.P. Morgan Asset Management Large Cap Growth	0.00%	0 BPS	FLM4	CES
J.P. Morgan Asset Management Core Bond (Columbus)	0.00%	0 CPS	FLM1	CES
J.P. Morgan Asset Management International ADR - MA	0.00%	0 BPS	FIM1	CES
J.P. Morgan Asset Management Intermediate Municipal Bond - MA	0.00%	0 CPS	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 Mid Cap Value - MA	0.00%	0 BPS	FLMA	CES
Janus Henderson Investors Global Life Sciences	0.00%	0 CPS	JCG3	CES
Janus Henderson Investors Concentrated Growth Managed Account	0.00%	0 CPS	JCG1	CES
Jennison Associates LLC International Equity Opportunities	0.00%	0 CPS	JNA7	CES
Jennison Associates LLC Global Equity Opportunities	0.00%	0 CPS	JNA6	CES
Jennison Associates LLC Mid Cap Growth	0.00%	0 CPS	JNA3	CES
Jennison Associates LLC Large Cap Growth Equity	0.00%	0 CPS	JNA1	CES
Jensen Investment Management, Inc. Quality Growth Equity Composite	0.00%	0 BPS	JMA1	CES
John Hancock Asset Management Core Plus Bond SMA	50.00%	0 BPS	JHA-4	Select UMA
John Hancock Asset Management Core Bond SMA	54.00%	0 CPS	JHA-3	Select UMA
John Hancock Asset Management Core Plus Bond SMA	0.00%	0 BPS	JHA4	CES
John Hancock Asset Management Core Bond SMA	0.00%	0 BPS	JHA3	CES
John Hancock Asset Management Fundamental Large Cap Core	0.00%	0 BPS	JHA1	CES
Karpus Investment Management Fixed Income Management	48.90%	0 CPS	KAR1	CES
Karpus Investment Management Conservative Balanced	27.50%	0 BPS	KAR2	ICS
Kayne Anderson Rudnick Invst. Small-Mid Cap Quality Value	0.00%	0 BPS	KAY5	CES
Kayne Anderson Rudnick Invst. Mid Cap Core (MA)	0.00%	0 CPS	KAY6	CES
Kayne Anderson Rudnick Invst. Small-Mid Cap Core (MA)	0.00%	0 CPS	KAY4	CES
Kayne Anderson Rudnick Invst. Small Cap Quality Value (MA)	0.00%	0 CPS	KAY3	CES
Kennedy Capital Management, Inc. Mid Cap Value	0.00%	0 CPS	KEC1	CES
Kovitz Investment Group, LLC Core Equity	0.00%	0 CPS	KOV1	CES
Lazard Asset Management LLC Emerging Markets Core Equity	95.00%	2 - 8 CPS	LZDE	CES
Lazard Asset Management LLC Developing Markets Eq Select ADR-SMA	95.00%	2 - 8 CPS	LZDD	CES
Lazard Asset Management LLC US Equity Concentrated - SMA	40.00%	0 CPS	LZDU	CES
Lazard Asset Management LLC Global Balanced Select ADR - SMA	95.00%	2 - 8 CPS	LZDH	CES
Lazard Asset Management LLC US Equity Select - SMA	40.00%	0 CPS	LZD9	CES
Lazard Asset Management LLC International Eq Select w/EM ADR	95.00%	2 - 8 CPS	LZDF	CES
Lazard Asset Management LLC Emerging Markets Eq Select ADR - SMA	95.00%	2 - 8 CPS	LZDL	CES
Lazard Asset Management LLC Global Equity Select ADR	75.00%	2 - 8 CPS	LZD3	CES
Lazard Asset Management LLC International Eq Select ADR	95.00%	2 - 8 CPS	LZD4	CES
Legg Mason Inc. All Cap Value Bal 60/40 Taxable	71.53%	1.21 CPS	CLD-R	Select UMA
Legg Mason Inc. Lg Grwth Bal 60/40 Tax Favored	56.19%	1.35 CPS	CBE-F	Select UMA
Legg Mason Inc. Lg Cp Growth Bal 60/40 Taxable	63.77%	1.35 CPS	CBE-B	Select UMA
Legg Mason Inc. Dividend Strategy Bal 60/40 Taxable	48.20%	1.54 CPS	CLD-J	Select UMA
Legg Mason Inc. Balanced Income w/Muni	79.60%	0.39 CPS	CBE-J	Select UMA
Legg Mason Inc. Balanced Income	84.66%	0.38 CPS	CBE-8	Select UMA
Legg Mason Inc. Appreciation Balanced 70/30 taxable	65.59%	1.02 CPS	CBE-3	Select UMA
Legg Mason Inc. Appreciation Balanced 60/40 taxable	62.20%	1.02 CPS	CLD-K	Select UMA
Legg Mason Inc. Apprec Bal wMuni 70/30	52.99%	1.02 CPS	CLD-N	Select 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
Legg Mason Inc. All Cap Growth Balanced Taxable 60/40	45.53%	1.50 CPS	CLD-S	Select UMA
Legg Mason Inc. Large Cap Growth ESG Balanced 60/40 Taxable	52.98%	1.149 CPS	CLD-C	Select UMA
Legg Mason Inc. Dividend Strategy Bal w Muni 60/40 Tax Favored	43.75%	1.54 CPS	CLD-I	Select UMA
Legg Mason Inc. Dividend Strat Bal 70/30 Taxable	42.98%	1.55 BPS	CLD-G	Select UMA
Legg Mason Inc. Dividend Strat Bal 70/30 Tax Favored	73.17%	1.56 CPS	CLD-H	Select UMA
Legg Mason Inc. Appreciation Bal w Muni Tax Favored 60/40	42.04%	0.989 CPS	CLD-L	Select UMA
Legg Mason Inc. AC Growth Bal 70/30 Taxable	52.68%	1.53 CPS	CLD-U	Select UMA
Legg Mason Inc. Lrg Gr ESG Bal 70-30 Taxable	42.31%	1.179 CPS	CBE-M	Select UMA
Legg Mason Inc. Western Asset Active Bond Intermediate Portfolios	97.00%	0 CPS	WTM-C	Select UMA
Legg Mason Inc. Western Asset Active Bond Gov-Corp	97.00%	0 CPS	WTM-D	Select UMA
Legg Mason Inc. Western Asset GSM Gov/Corp	97.00%	0 CPS	SAL-A	Select UMA
Legg Mason Inc. All Cap Growth Balanced Taxable 60/40	0.00%	0 CPS	CLDJ	CES
Legg Mason Inc. All Cap Value 60/40 SMA	0.00%	0 CPS	CLDC	CES
Legg Mason Inc. Balanced Income 70/30 SMA	96.14%	0.38 CPS	SBG	CES
Legg Mason Inc. Balanced Inc w/Muni 70/30	96.57%	0.38 CPS	LGM1	CES
Longfellow Investment Mgmt. Co. Intermediate Duration Fixed Income	93.00%	0 BPS	LNG1	CES
Longfellow Investment Mgmt. Co. Short Duration Fixed Income Mgmt	93.00%	0 BPS	LNG2	CES
Loomis, Sayles & Company, L.P. Government/Credit Bond Portfolio	100.00%	0 BPS	LSA-4	Select UMA
Loomis, Sayles & Company, L.P. All Government	100.00%	0 BPS	LSA-3	Select UMA
Loomis, Sayles & Company, L.P. 1-3 Year Government	100.00%	0 BPS	LSA-2	Select UMA
Loomis, Sayles & Company, L.P. Medium Duration Municipal Bond	100.00%	0 BPS	MDI-M	Select UMA
Loomis, Sayles & Company, L.P. Intermediate Term Municipal Fixed Income 5 Year	100.00%	0 BPS	MDO-M	Select UMA
Loomis, Sayles & Company, L.P. Govt/Credit Managed Account	100.00%	0 BPS	LSA4	CES
Loomis, Sayles & Company, L.P. All Government SMA	100.00%	0 BPS	LSA3	CES
Loomis, Sayles & Company, L.P. 1-3 Year Government SMA	100.00%	0 BPS	LSA2	CES
Loomis, Sayles & Company, L.P. Med (10 Year) Muni Bond Mgd Acct	100.00%	0 BPS	MDI4	CES
Loomis, Sayles & Company, L.P. Small/Mid Cap	0.00%	0 BPS	LSS5	CES
Loomis, Sayles & Company, L.P. Small Cap Value	0.00%	0 CPS	LSS4	CES
Loomis, Sayles & Company, L.P. Multisector Full Discretion	0.00%	0 CPS	LSS3	CES
Loomis, Sayles & Company, L.P. Intermediate Duration Fixed Income	43.70%	0 - 1 BPS	LSS1	CES
Loomis, Sayles & Company, L.P. Core	52.58%	0 - 1 BPS	LSF	CES
Loomis, Sayles & Company, L.P. Interim (5 Year) Muni Bond Mgd Acct	100.00%	0 BPS	MDI3	CES
Loomis, Sayles & Company, L.P. Large Cap Growth	0.00%	0 BPS	LSA9	ICS
Lord, Abnett & Co., LLC Managed Municipal Ladders: 5-15 Year	99.00%	0 BPS	LOC-I	Select UMA
Lord, Abnett & Co., LLC Managed Municipal Ladders: 1-20 Year	88.00%	0 BPS	LOC-H	Select UMA
Lord, Abnett & Co., LLC Managed Municipal Ladders: 1-10 Year	94.00%	0 BPS	LOC-G	Select UMA
Lord, Abnett & Co., LLC Managed Municipal Ladders: 5-10 Year	100.00%	0 BPS	LOC-F	Select UMA
Lord, Abnett & Co., LLC Managed Municipal Ladders: 1-15 Year	99.00%	0 BPS	LOC-E	Select UMA
Lord, Abnett & Co., LLC Managed Municipal Ladders: 1-5 Year	99.00%	0 BPS	LOC-D	Select 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
Lord, Abbett & Co., LLC Value Balanced - Taxable	0.00%	0 BPS	LOC-3	Select UMA
Lord, Abbett & Co., LLC Intermediate Municipal MA	97.00%	0 BPS	LOC-5	Select UMA
Lord, Abbett & Co., LLC Long Municipal MA	99.00%	0 BPS	LOC-M	Select UMA
Lord, Abbett & Co., LLC Convertibles MA	99.00%	0 BPS	LOC-C	Select UMA
Lord, Abbett & Co., LLC Core Plus Total Return	0.00%	0 BPS	LOA7	CES
Lord, Abbett & Co., LLC 5-15 Yr Managed Municipal Ladder MA	99.00%	0 BPS	LOCI	CES
Lord, Abbett & Co., LLC 5-10 Yr Managed Municipal Ladder MA	100.00%	0 BPS	LOCF	CES
Lord, Abbett & Co., LLC 1-15 Yr Managed Municipal Ladder MA	99.00%	0 BPS	LOCE	CES
Lord, Abbett & Co., LLC 1-20 Yr Managed Municipal Ladder MA	88.00%	0 BPS	LOCH	CES
Lord, Abbett & Co., LLC 1-10 Yr Managed Municipal Ladder MA	94.00%	0 CPS	LOGG	CES
Lord, Abbett & Co., LLC 1-5 Yr Managed Municipal Ladder MA	99.00%	0 BPS	LOCD	CES
Lord, Abbett & Co., LLC Intermediate Municipal MA	97.00%	0 BPS	LOA5	CES
Lord, Abbett & Co., LLC Large Cap Value MA	0.00%	0 BPS	LOA2	CES
Lord, Abbett & Co., LLC Long Municipal MA	99.00%	0 BPS	LOC9	CES
Lord, Abbett & Co., LLC Value Equity MA	0.00%	0 BPS	LOA4	CES
Lord, Abbett & Co., LLC Convertibles MA	99.00%	0 BPS	LOA3	CES
LS Investment Advisors Institutional Dividend Growers	100.00%	1 CPS	LSJ1	ICS
Lyrical Asset Management, L.P. Lyrical U.S. Value Equity - CS	0.00%	0 CPS	LYR1	CES
MacKay Shields LLC Convertible Securities	82.63%	0 CPS	MKY-C	Select UMA
MacKay Shields LLC Core Investment Grade	0.00%	0 CPS	MKY1	CES
MacKay Shields LLC Convertible	0.00%	0 CPS	MKY2	CES
Madison Investment Advisors, LLC Active Intermediate Duration	81.34%	0 CPS	RHC-1	Select UMA
Madison Investment Advisors, LLC Intermediate Corporate Bond	100.00%	0 CPS	MAV-F	Select UMA
Madison Investment Advisors, LLC Intermediate - Government Only	100.00%	0 CPS	MAD-2	Select UMA
Madison Investment Advisors, LLC Intermediate Fixed Income	100.00%	0 CPS	MDV-F	Select UMA
Madison Investment Advisors, LLC Genesis Private Market Value SMA	0.00%	0 CPS	RHC3	CES
Madison Investment Advisors, LLC Active Intermediate Fixed Income	81.34%	0 CPS	RHC2	CES
Madison Investment Advisors, LLC Mid Cap Private Market Value Equity	0.00%	0 CPS	RHC1	CES
Madison Investment Advisors, LLC Intermediate Government Bond (MA)	100.00%	0 CPS	MAD8	CES
Madison Investment Advisors, LLC Intermediate Corporate Bond	100.00%	0 CPS	MAD7	CES
Madison Investment Advisors, LLC Mid Cap Equity	0.00%	0 CPS	MAD5	CES
Madison Investment Advisors, LLC Intermediate Govt/Corp Bond	100.00%	0 CPS	MAD3	CES
Madison Investment Advisors, LLC Large Cap Equity	0.00%	0 CPS	MAD4	CES
Manning & Napier Advisors, LLC Core Non-U.S. Equity	0.00%	0 BPS	MAN1	CES
Manning & Napier Advisors, LLC Disciplined Value	0.00%	0 BPS	MAN4	ICS
Manning & Napier Advisors, LLC U.S. Core Equity	0.00%	0 BPS	MAN3	ICS
Mar Vista Investment Partners, LLC Strategic Growth	0.00%	0 CPS	MVS2	CES
MartinCurrie-FranklinTempletonRETAIL Martin Currie Emerging Mkts SMA	0.00%	0 CPS	MRE1	CES
MetLife Investment Advisors, LLC Long Credit	0.00%	0 CPS	LOP2	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
MFS Investment Management MFS Large Cap Value (SMA)	0.00%	0 CPS	MFSS5	CES
Miller Value Partners LLC Opportunity Equity	0.00%	0 CPS	MIL1	CES
Miller/Howard Investments, Inc. MLP Strategy	0.00%	0 CPS	MLH1	CES
Miller/Howard Investments, Inc. Infrastructure	0.00%	0 CPS	MLH4	CES
Miller/Howard Investments, Inc. Income-Equity Strategy (No MLPs)	0.00%	0 CPS	MLH2	CES
Miller/Howard Investments, Inc. Income-Equity Strategy with MLPs	0.00%	0 CPS	MLH5	CES
Minneapolis Port. Mgmt. Group All Cap Value	0.00%	0 CPS	MIN2	CES
Morgan Stanley Investment Management Defensive All World Core Equity	100.00%	0 CPS	SRU-9	Select UMA
Morgan Stanley Investment Management Defensive International Core Equity	100.00%	0 CPS	SRU-8	Select UMA
Morgan Stanley Investment Management Defensive European Large Cap Core Equity	100.00%	0 CPS	SRU-7	Select UMA
Morgan Stanley Investment Management Defensive US Large Cap Core Equity	100.00%	0 CPS	SRU-1	Select UMA
Morgan Stanley Investment Management Defensive All World Core Equity	100.00%	0 CPS	SRU9	CES
Morgan Stanley Investment Management Defensive International Core Equity	100.00%	0 CPS	SRU8	CES
Morgan Stanley Investment Management Defensive European Large Cap Core Equity	100.00%	0 CPS	SRU7	CES
Morgan Stanley Investment Management Defensive US Large Cap Core Equity	100.00%	0 CPS	SRU1	CES
MSIM Fixed Income Managed Solutions Contingent Convert Bond	0.00%	0 CPS	MAF-O	Select UMA
MSIM Fixed Income Managed Solutions NRC Eligible Preferred	0.00%	0 CPS	MAF-U	Select UMA
MSIM Fixed Income Managed Solutions Long Duration Municipal	0.00%	0 CPS	MAF-N	Select UMA
MSIM Fixed Income Managed Solutions Inv Grade Floating Rate	0.00%	0 CPS	MAF-J	Select UMA
MSIM Fixed Income Managed Solutions Short Duration Municipal	0.00%	0 CPS	MAF-I	Select UMA
MSIM Fixed Income Managed Solutions Preferred Securities Custom	0.00%	0 CPS	MAF-G	Select UMA
MSIM Fixed Income Managed Solutions Intermediate Laddered Muni	0.00%	0 CPS	MAF-F	Select UMA
MSIM Fixed Income Managed Solutions Intermediate Municipal	0.00%	0 CPS	MAF-E	Select UMA
MSIM Fixed Income Managed Solutions Short Term Corporate Bond	0.00%	0 CPS	MAF-D	Select UMA
Neuberger Berman Emerging Markets Equity	0.00%	0 CPS	NEUB	CES
Neuberger Berman S&P 500 Hedged Option Premium Strategy	0.00%	0 CPS	NBR1	CES
Neuberger Berman Small Cap Intrinsic Value (WRAP)	0.00%	0 CPS	NEU6	CES
Neuberger Berman International ADR (WRAP)	0.00%	0 CPS	NEU1	CES
Neuberger Berman Sustainable Equity	0.00%	0 BPS	NEU2	CES
NewSouth Capital Management, Inc. NSCM Small/Mid Value Equity	63.50%	0 BPS	NWS3	ICS
Mellon Investments Corporation US Small Mid Cap Growth Equity	0.00%	0 CPS	MOL2	CES
Mellon Investments Corporation US Dynamic Large Cap Value	0.00%	0 CPS	MOL1	CES
Walter Scott & Partners Limited EAFE Equity	0.00%	0 CPS	MOL3	CES
Newton Investment Management Global Equity Income	0.00%	0 CPS	NEC3	CES
Newton Investment Management Global Equity	0.00%	0 CPS	NEC2	CES
Newton Investment Management International Equity	0.00%	0 CPS	NEC1	CES
NorthCoast Asset Management CAN SLIM	0.00%	0 CPS	NMG1	CES
Nuance Investments, LLC Nuance Mid Cap Value	0.00%	0 CPS	NUA1	CES
Nuveen Asset Management Municipal Bond Ladder 10-25 Yr	99.00%	0 BPS	NUV-9	Select 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 Municipal Bond Ladder 5-15 Year	99.00%	0 BPS	NUV-8	Select UMA
Nuveen Asset Management Municipal Bond Ladder 1-7 Year	99.00%	0 BPS	NUV-7	Select UMA
Nuveen Asset Management Municipal Long Term (MA)	99.00%	0 BPS	NVM-M	Select UMA
Nuveen Asset Management Municipal Limited Maturity (MA)	99.00%	0 BPS	NUV-M	Select UMA
Nuveen Asset Management 1-15 Year Municipal Ladder	99.00%	0 BPS	NUV-2	Select UMA
Nuveen Asset Management 1-10 Year Municipal Ladder	99.00%	0 BPS	NUV-1	Select UMA
Nuveen Asset Management Intermediate Term Municipal HQ MA	99.00%	0 BPS	NVE-M	Select UMA
Nuveen Asset Management Municipal Total Return	79.00%	0 BPS	NVE-5	Select UMA
Nuveen Asset Management Municipal Bond Ladder 1-7 Year (MA)	99.00%	0 BPS	NUV7	CES
Nuveen Asset Management Municipal Bond Ladder 5-15 Year (MA)	99.00%	0 BPS	NUV8	CES
Nuveen Asset Management Municipal Bond Ladder 10-25 Yr (MA)	99.00%	0 BPS	NUV9	CES
Nuveen Asset Management Municipal Bond Ladder 1-15 Year (MA)	99.00%	0 BPS	NUV5	CES
Nuveen Asset Management Municipal Bond Ladder 1-10 Year (MA)	99.00%	0 BPS	NUV4	CES
Nuveen Asset Management Nuveen Municipal Total Return (MA)	79.00%	0 BPS	NVE6	CES
Nuveen Asset Management Dividend Value	0.00%	0 CPS	NUV3	CES
Nuveen Asset Management Small Cap Value	0.00%	0 CPS	NUV6	CES
Nuveen Asset Management Stable Growth	0.00%	0 CPS	CPT2	CES
Nuveen Asset Management Municipal Long Term (MA)	99.00%	0 BPS	NUV1	CES
Nuveen Asset Management Municipal Limited Maturity (MA)	99.00%	0 BPS	NVE8	CES
Nuveen Asset Management Intermediate Term Municipal HQ MA	99.00%	0 BPS	NVE9	CES
Nuveen Asset Management Intermediate Gov/Credit FI	100.00%	1 - 5 BPS	NUV2	ICS
NWQ Investment Management Co., LLC Large Cap Value Balanced	0.00%	0 CPS	NWQ-B	Select UMA
NWQ Investment Management Co., LLC International Value Equity	0.00%	0 CPS	TGI4	CES
NWQ Investment Management Co., LLC International Value Equity ADR	0.00%	0 CPS	TGI1	CES
NWQ Investment Management Co., LLC Large Cap Value	0.00%	0 CPS	NWQ2	CES
NWQ Investment Management Co., LLC Special Equity	0.00%	0 CPS	NWQ3	CES
NWQ Investment Management Co., LLC Large Cap Value Balanced	0.00%	0 CPS	NWQ1	CES
Oak Ridge Investments, LLC All Cap Growth	12.83%	3 - 5 CPS	OKR2	CES
Oak Ridge Investments, LLC Small to Mid Cap Growth	94.68%	3 - 5 CPS	OKR1	CES
O'Shaughnessy Asset Management, LLC Enhanced Dividend	0.00%	0 CPS	OSH3	CES
Pacific Income Advisers, Inc. Market Duration SMA	95.00%	0 - 0.5 BPS	PIA-F	Select UMA
Pacific Income Advisers, Inc. Moderate Duration MACS	95.00%	0 - 0.5 BPS	PIA-1	Select UMA
Pacific Income Advisers, Inc. Limited Duration SMA	95.00%	0 - 0.5 BPS	PIF-F	Select UMA
Pacific Income Advisers, Inc. Moderate Duration MACS	95.00%	0.005 - 0.01 BPS	PIA3	CES
Pacific Income Advisers, Inc. Limited Duration	95.00%	0 - 0.5 BPS	PIA1	CES
Pacific Income Advisers, Inc. Market Duration (SMA)	95.00%	0 - 0.5 BPS	PIA2	CES
Pacific Investment Mgmt. Co PIMCO Corporate Bond Ladder 3-8 year	100.00%	0 CPS	PCO-J	Select UMA
Pacific Investment Mgmt. Co PIMCO Corporate Bond Ladder 3-11 year	100.00%	0 CPS	PCO-I	Select UMA
Pacific Investment Mgmt. Co Corporate Bond Intermediate Ladder	100.00%	0 CPS	PCO-H	Select 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
Pacific Investment Mgmt. Co Corporate Bond Short Ladder	100.00%	0 CPS	PCO-G	Select UMA
Pacific Investment Mgmt. Co 1-18 Year National Muni Ladder MA	100.00%	0 CPS	PCO-D	Select UMA
Pacific Investment Mgmt. Co 1-12 Year National Muni Ladder MA	100.00%	0 CPS	PCO-C	Select UMA
Pacific Investment Mgmt. Co 1-6 Year National Muni Ladder MA	100.00%	0 CPS	PCO-B	Select UMA
Pacific Investment Mgmt. Co 3-17 Yr National Muni Ladder	100.00%	0 CPS	PCO-8	Select UMA
Pacific Investment Mgmt. Co 3-11 Yr National Muni Ladder	100.00%	0 CPS	PCO-7	Select UMA
Pacific Investment Mgmt. Co Muni Bond National Intermediate	100.00%	0 CPS	PCO-1	Select UMA
Pacific Investment Mgmt. Co Real Return for Managed Accounts	100.00%	0 CPS	PCO-6	Select UMA
Pacific Investment Mgmt. Co Total Return for Managed Accounts	100.00%	0 CPS	PCO-2	Select UMA
Pacific Investment Mgmt. Co PIMCO Corporate Bond Ladder 3-8 year	100.00%	0 CPS	PCOJ	CES
Pacific Investment Mgmt. Co PIMCO Corporate Bond Ladder 3-11 year	100.00%	0 CPS	PCOI	CES
Pacific Investment Mgmt. Co Corporate Bond Intermediate Ladder	100.00%	0 CPS	PCOH	CES
Pacific Investment Mgmt. Co Corporate Bond Short Ladder	100.00%	0 CPS	PCOG	CES
Pacific Investment Mgmt. Co Muni Bond National Intermediate	100.00%	0 CPS	PCO6	CES
Pacific Investment Mgmt. Co 3-11 Yr National Muni Ladder	100.00%	0 CPS	PCO7	CES
Pacific Investment Mgmt. Co 3-17 Yr National Muni Ladder	100.00%	0 CPS	PCO8	CES
Pacific Investment Mgmt. Co 1-18 Year National Muni Ladder MA	100.00%	0 CPS	PCOD	CES
Pacific Investment Mgmt. Co 1-6 Year National Muni Ladder MA	100.00%	0 CPS	PCOB	CES
Pacific Investment Mgmt. Co 1-12 Year National Muni Ladder MA	100.00%	0 CPS	PCOC	CES
Pacific Investment Mgmt. Co PIMCO Real Return Managed Accounts	100.00%	0 BPS	PCO5	CES
Pacific Investment Mgmt. Co PIMCO Total Return MA	100.00%	0 CPS	PCO2	CES
Pacific Investment Mgmt. Co Core Plus - Total Return Full Auth.	100.00%	0 CPS	PCO3	CES
Pacific Investment Mgmt. Co International Bond USD-Hedged	100.00%	0 CPS	PCO1	CES
Parametric Portfolio Associates Custom Core Developed International Gender Lens	0.00%	0 CPS	PPA-M	Select UMA
Parametric Portfolio Associates Custom Core US Large Cap Gender Lens	0.00%	0 CPS	PPA-K	Select UMA
Parametric Portfolio Associates PPA Custom Core US Large Mid Cap Core	0.00%	0 CPS	PPA-G	Select UMA
Parametric Portfolio Associates PPA Custom Core Global ex US ADR	0.40%	0.5 BPS	PPA-I	Select UMA
Parametric Portfolio Associates PPA Custom Core US Large-Mid Cap Growth	0.00%	0 CPS	PPA-H	Select UMA
Parametric Portfolio Associates PPA Custom Core US Large-Mid Cap Value	0.00%	0 CPS	PPA-F	Select UMA
Parametric Portfolio Associates PPA Custom Core US Mid Cap	0.00%	0 CPS	PPA-E	Select UMA
Parametric Portfolio Associates PPA Custom Core US Small Cap	0.00%	0 CPS	PPA-D	Select UMA
Parametric Portfolio Associates PPA Custom Core Global ADR	0.08%	0.5 BPS	PPA-C	Select UMA
Parametric Portfolio Associates Custom S&P500/MSCI EAFE ADR/Int Ldr Corp 30/30/40	0.00%	0 CPS	PPE-9	Select UMA
Parametric Portfolio Associates Custom Russell 3000 / Int Ldr Corporate (60/40)	0.00%	0 CPS	PPE-8	Select UMA
Parametric Portfolio Associates Custom S&P500 / Int Laddered Corporate (60/40)	0.00%	0 CPS	PPE-7	Select UMA
Parametric Portfolio Associates Custom SP500/MSCI EAFE ADR/Int Ldr Muni 30/30/40	0.00%	0 CPS	PPE-6	Select UMA
Parametric Portfolio Associates Custom SP500/MSCI EAFE ADR/Sht Ldr Muni 30/30/40	0.00%	0 CPS	PPE-3	Select UMA
Parametric Portfolio Associates Custom Russell 3000 / Short Laddered Muni (60/40)	0.00%	0 CPS	PPE-2	Select UMA
Parametric Portfolio Associates Custom S&P 500 / Short Laddered Muni (60/40)	0.00%	0 CPS	PPE-1	Select 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 Custom Russell 3000 / Interm Laddered Muni (60/40)	0.00%	0 CPS	PPE-5	Select UMA
Parametric Portfolio Associates Custom S&P500/Intermediate Laddered Muni (60/40)	0.00%	0 CPS	PPE-4	Select UMA
Parametric Portfolio Associates Custom Core EAFE ADR	0.00%	0 CPS	PPA-1	Select UMA
Parametric Portfolio Associates Custom Core - S&P 500	0.00%	0 CPS	PPA-7	Select UMA
Parametric Portfolio Associates CC US Broad Cap - TM	0.01%	0.50 CPS	PPA-2	Select UMA
Parametric Portfolio Associates CC US SRI Broad Cap - TM	0.00%	0 CPS	PPA-4	Select UMA
Parametric Portfolio Associates U.S. Corporate Ladder Short	100.00%	0 BPS	EAT-A	Select UMA
Parametric Portfolio Associates U.S. Corporate Ladder Intermediate	100.00%	0 BPS	EAT-B	Select UMA
Parametric Portfolio Associates TABS Municipal Short	100.00%	0 BPS	EAT-M	Select UMA
Parametric Portfolio Associates TABS Municipal Ladder Short	100.00%	0 BPS	EAT-6	Select UMA
Parametric Portfolio Associates TABS Municipal Ladder Long	100.00%	0 BPS	EAT-5	Select UMA
Parametric Portfolio Associates TABS Municipal Ladder Intermediate	100.00%	0 BPS	EAT-4	Select UMA
Parametric Portfolio Associates TABS Total Return Intermediate	100.00%	0 BPS	EAT-3	Select UMA
Parametric Portfolio Associates TABS Municipal Long	100.00%	0 BPS	ETV-M	Select UMA
Parametric Portfolio Associates TABS Municipal Intermediate	100.00%	0 BPS	EVM-M	Select UMA
Parametric Portfolio Associates TABS Total Return Long	100.00%	0 BPS	EAT-1	Select UMA
Parametric Portfolio Associates TABS Total Return Limited	100.00%	0 BPS	EAT-2	Select UMA
Parametric Portfolio Associates Custom Core Developed International Gender Lens	0.00%	0 CPS	PPAM	CES
Parametric Portfolio Associates Portfolio Delta Shift Strategy	0.00%	0 CPS	PPM7	CES
Parametric Portfolio Associates Custom Core US Large Cap Gender Lens	0.00%	0 CPS	PPAK	CES
Parametric Portfolio Associates PPA Custom Multi-Asset Taxable (CES) 30/70	0.00%	0 CPS	PPM6	CES
Parametric Portfolio Associates PPA Custom Multi-Asset Taxable (CES) 50/50	0.00%	0 CPS	PPM5	CES
Parametric Portfolio Associates PPA Custom Multi-Asset Taxable (CES)70/30	0.00%	0 CPS	PPM4	CES
Parametric Portfolio Associates PPA Custom Multi-Asset Tax Advantaged (CES)30/70	0.00%	0 CPS	PPM3	CES
Parametric Portfolio Associates PPA Custom Multi-Asset Tax Advantaged (CES)50/50	0.00%	0 CPS	PPM2	CES
Parametric Portfolio Associates PPA Custom Multi-Asset Tax Advantaged (CES)70/30	0.00%	0 CPS	PPM1	CES
Parametric Portfolio Associates Enhanced Income Core	10.72%	0.50 CPS	PPAB	CES
Parametric Portfolio Associates Enhanced Inc Core Tax-Adv	10.94%	0.50 CPS	PPAA	CES
Parametric Portfolio Associates CC Developed Intl ADR -TM	0.43%	0.5 BPS	PPA9	CES
Parametric Portfolio Associates Stock Delta Shift	0.00%	0 CPS	PPAC	CES
Parametric Portfolio Associates Custom Passive Index	0.00%	0 CPS	PPA1	CES
Parametric Portfolio Associates Eaton Vance/Parametric Multi Cap MSP	0.00%	0 CPS	PPA8	CES
Parametric Portfolio Associates Enhanced Income Tax-Adv	0.00%	0 CPS	PPA6	CES
Parametric Portfolio Associates CC US Broad Cap - TM	0.01%	0.50 CPS	PPA5	CES
Parametric Portfolio Associates CC US SRI Broad Cap - TM	0.00%	0 CPS	PPA4	CES
Parametric Portfolio Associates Enhanced Income	0.15%	0.50 CPS	PPA3	CES
Parametric Portfolio Associates CC US Large Cap - TM	0.00%	0 CPS	PPA7	CES
Penn Capital Management Opportunistic HY	0.00%	0 CPS	PNN1	CES
Penn Capital Management Small to Mid Cap Equity	98.00%	0 CPS	PNN	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
Penn Capital Management Small Cap Equity	0.00%	0 CPS	PNN2	CES
Penn Capital Management Mid Cap Equity	0.00%	0 CPS	PNN4	CES
Pinnacle Associates Ltd Small/Medium Cap Equity	0.00%	0 CPS	PIN1	CES
Polen Capital Management, LLC International Growth ADR	0.00%	0 CPS	POL3	CES
Polen Capital Management, LLC Global Growth ADR	0.00%	0 CPS	POL2	CES
Polen Capital Management, LLC Focus Growth	0.00%	0 CPS	POL1	CES
Principal Global Equities U.S. Blue Chip Equity	0.00%	0 CPS	PGI6	CES
Principal Global Equities MidCap Equity SMA	0.00%	0 BPS	PGI5	CES
Principal Real Estate Investors Real Estate Equity Securities SMA	0.00%	0 BPS	PGI1	CES
Renaissance Investment Management Large Cap Growth - Wrap (MA)	0.00%	0 CPS	REN1	CES
Renaissance Investment Management International Equity ADR- Wrap (MA)	0.00%	0 CPS	REN2	CES
Rice, Hall, James & Associates Small Cap Opportunities	0.00%	0 CPS	RHJ6	CES
Rice, Hall, James & Associates Micro Cap Equity	0.00%	0 CPS	RHJ4	CES
Rice, Hall, James & Associates Micro Cap Opportunities	0.00%	0 CPS	RHJ5	CES
Rice, Hall, James & Associates SMID Cap Opportunities	0.00%	0 CPS	RHJ7	CES
Rice, Hall, James & Associates SMID Cap Growth	0.00%	0 CPS	RHJ2	ICS
Rice, Hall, James & Associates Micro Cap Growth	0.00%	0 CPS	RHJ3	ICS
Richard Bernstein Advisors RBA Risk-Bal Gbl ETF Strategy MA	0.00%	0 CPS	RBS1	CES
Riverbridge Partners, LLC SMID Cap Growth	0.00%	0 BPS	RIV3	CES
Riverbridge Partners, LLC All Cap Growth	0.00%	0 BPS	RIV5	CES
Riverbridge Partners, LLC Eco Leaders	0.00%	0 BPS	RIV2	CES
Riverbridge Partners, LLC Small Cap Growth	0.00%	0 BPS	RIV1	CES
Riverfront Investment Group, LLC RIG Conservative Growth	0.00%	0 - 0.005 CPS	RVR-B	Select UMA
Riverfront Investment Group, LLC RIG Moderate Growth & Income	8.00%	0 - 0.005 CPS	RVG4	CES
Riverfront Investment Group, LLC RIG Global Growth	0.00%	0 CPS	RVG2	CES
Riverfront Investment Group, LLC RIG Conservative Growth	0.00%	0 CPS	RVG1	CES
Riverfront Investment Group, LLC RIG Global Allocation	8.00%	0 - 0.005 CPS	RVG3	CES
Rothschild & Co Asset Management US Large-Cap Value	0.00%	0 BPS	ROT4	CES
Rothschild & Co Asset Management US Large-Cap Core	0.00%	0 CPS	ROT3	CES
Royce & Associates-LeggMason RETAIL Royce Premier SMA	0.00%	0 CPS	RYC1	CES
RSW Investments, LLC Market Duration Muni	100.00%	0 CPS	RSW-1	Select UMA
RSW Investments, LLC Market Duration Tax-Exempt Bond	100.00%	0 CPS	RSW1	CES
Sage Advisory Services, Ltd. Co. Short Term Taxable Fixed Income	100.00%	0 CPS	SGE-F	Select UMA
Sage Advisory Services, Ltd. Co. Intermediate Corporate Only	100.00%	0 CPS	SGE-2	Select UMA
Sage Advisory Services, Ltd. Co. Intermediate Term Fixed Income	100.00%	0 CPS	SGS-F	Select UMA
Sage Advisory Services, Ltd. Co. Long Duration LDI (10+ Years)	100.00%	0 CPS	SGEA	CES
Sage Advisory Services, Ltd. Co. Intermediate Term Corporate FI	100.00%	0 CPS	SGE8	CES
Sage Advisory Services, Ltd. Co. Core Taxable Fixed Income	100.00%	0 CPS	SGE1	CES
Sage Advisory Services, Ltd. Co. Intermediate Term Fixed Income	100.00%	0 CPS	SGE2	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
Sage Advisory Services, Ltd. Co. Short Term Taxable Fixed Income	100.00%	0 CPS	SGE3	CES
Sagewood Asset Management LLC Volatility Yield	0.00%	0 CPS	SGW1	CES
Salient Partners, L.P. Salient MLP Separate Account	0.00%	0 CPS	FWM2	CES
Salient Partners, L.P. Salient MLP Total Return Fund LP	0.00%	0 CPS	BDK1	CES
Sands Capital Management, LLC Select Growth	0.00%	0 BPS	SNS1	CES
Santa Barbara Asset Management Dividend Growth	0.00%	0 CPS	CPT3	CES
Sawgrass Asset Management, LLC Diversified Large Growth Equity	0.00%	0 BPS	SWG2	CES
Schafer Cullen Capital Management Emerging Market High Dividend	1.38%	0 - 3 CPS	SCC4	CES
Schafer Cullen Capital Management International High Dividend Val. ADR	1.05%	0 CPS	SCC1	CES
Schafer Cullen Capital Management High Dividend Value Equity	4.08%	0 CPS	SCC3	CES
Schafer Cullen Capital Management Enhanced Equity Income -CES	0.00%	0 CPS	SCC5	ICS
Scharf Investments Core Equity	0.00%	0 CPS	SID1	CES
Schroders International Alpha	0.00%	0 BPS	WER1	CES
Segall Bryant & Hamill Core Fixed Income	0.00%	0 CPS	SEG-8	Select UMA
Segall Bryant & Hamill Intermediate Fixed Income	0.00%	0 CPS	SEG-7	Select UMA
Segall Bryant & Hamill Quality High Yield Fixed Income	0.00%	0 CPS	SEG-6	Select UMA
Segall Bryant & Hamill Core Fixed Income	100.00%	0 BPS	SEG8	CES
Segall Bryant & Hamill Intermediate Fixed Income	0.00%	0 CPS	SEG7	CES
Segall Bryant & Hamill Quality High Yield Fixed Income	56.90%	0 BPS	SEG6	CES
Segall Bryant & Hamill SMID Cap	0.00%	0 CPS	SEG1	CES
Segall Bryant & Hamill All Cap	0.00%	0 CPS	SEG2	CES
Segall Bryant & Hamill Short Term Fixed Income	100.00%	0 CPS	SEG4	ICS
Segall Bryant & Hamill High Yield Fixed Income	0.00%	0 CPS	DEV1	ICS
Seix Investment Advisors LLC High Quality High Yield	100.00%	0 BPS	SIX-H	Select UMA
Seix Investment Advisors LLC Core Bond	100.00%	0 BPS	SIF-F	Select UMA
Seix Investment Advisors LLC Core Bond Wrap (MA)	100.00%	0 BPS	SIX7	CES
Seix Investment Advisors LLC High Quality High Yield	100.00%	0 BPS	SIX9	CES
Seizert Capital Partners Core-Equity-ICS	0.00%	0 CPS	SZR2	ICS
Select UMA Overlay Manager Executed Transactions*	17.00%	0.72 CPS	N/A	Select UMA
Sheets Smith Investment Mgmt., LLC Absolute Return Balanced Portfolio	0.00%	0 CPS	SSA1	CES
Silvercrest Asset Mgmt. Group LLC U.S. SMID Value	0.00%	0 CPS	SIL4	CES
Silvercrest Asset Mgmt. Group LLC U.S. Small Cap Value	0.00%	0 CPS	SIL1	CES
Silvercrest Asset Mgmt. Group LLC SMID Cap Equity	0.00%	0 CPS	SIL3	ICS
Sit Investment Associates, Inc. Municipal Short Duration	100.00%	0 CPS	SIZ1	ICS
Smith Asset Management Group Large Cap Focused	0.00%	0 CPS	SMG1	CES
Spectrum Asset Mgmt. Tax Advantage SMA	65.00%	0 BPS	PGI4	CES
Spectrum Asset Mgmt. Preferred Securities	60.00%	0 BPS	PGI3	CES
Sterling Capital Management Mid Cap Value SMA	0.00%	0 CPS	SCM1	CES
Stonebridge Advisors LLC Tax-Advantaged Preferred Securities	29.00%	0 CPS	STG4	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
Stonebridge Advisors LLC StandardTaxable Preferred Securities	30.00%	0 CPS	STG2	CES
Sun Life Capital Management LDI Extended Duration	100.00%	0 CPS	RLI2	CES
Sun Life Capital Management Government/Credit Intermediate	100.00%	0 CPS	RLI1	CES
Sun Life Capital Management Short Duration Government/Credit	100.00%	0 CPS	RLI3	CES
Sustainable Growth Advisers, LP SGA U.S. Large Cap Growth	0.00%	0 BPS	SGC1	CES
Systematic Financial Management, L.P Small Cap Free Cash Flow	0.00%	0 CPS	SYS1	CES
T. Rowe Price International Core Equity SMA	0.00%	0 BPS	TRR2	CES
T. Rowe Price US Blue Chip Growth Equity SMA	0.00%	0 BPS	TRR1	CES
TCW Balanced Managed Accounts	0.00%	0 CPS	TCW-B	Select UMA
TCW TCW Core Plus Fixed Income	0.00%	0 CPS	MET4	CES
TCW TCW Intermediate	0.00%	0 CPS	MET2	CES
TCW TCW Low Duration	0.00%	0 CPS	MET3	CES
TCW TCW Concentrated Core Equities	0.00%	0 CPS	TCA8	CES
TCW TCW Balanced - Managed Accounts	0.00%	0 CPS	TCA5	CES
TCW TCW Relative Value Mid Cap	0.00%	0 CPS	TCA2	CES
TCW TCW Relative Value Large Cap	0.00%	0 CPS	TCA4	CES
The Ithaka Group, LLC Ithaka Growth Portfolio	0.00%	0 CPS	IHK1	ICS
The London Company Mid Cap	0.00%	0 CPS	LND4	CES
The London Company SMID Cap	0.00%	0 CPS	LND2	CES
The London Company Income Equity	0.00%	0 CPS	LND3	CES
The London Company Small Cap	0.00%	0 CPS	LND1	CES
Thomas White International, Ltd. Emerging Markets ADR	0.00%	0 CPS	TMS1	CES
ThomasPartners Inc. TPI Dividend Growth Strategy Non K-1	58.00%	0 - 0.02 CPS	TPZ1	CES
ThomasPartners Inc. TPI Dividend Growth Strategy K-1	58.00%	0 - 0.02 CPS	TPZ3	CES
Thompson, Siegel & Walmsley LLC TSW Mid Cap Value	0.00%	0 CPS	TSW3	CES
Thompson, Siegel & Walmsley LLC TSW SMID Cap Value	0.00%	0 CPS	TSW4	CES
Thornburg Investment Management, Inc Emerging Markets ADR	0.00%	0 CPS	THI5	CES
Thornburg Investment Management, Inc Intl Growth ADR Strategy	0.00%	0 CPS	THI4	CES
Thornburg Investment Management, Inc Ltd Term Muni Strategy	100.00%	0 BPS	THI3	CES
Thornburg Investment Management, Inc Intl Equity Strategy	0.00%	0 CPS	THI1	CES
Thornburg Investment Management, Inc International ADR Strategy	1.00%	0 - 0.02 CPS	THI2	CES
Todd Asset Management LLC International Intrinsic Value	0.00%	0 CPS	TOD1	CES
Tortoise Capital Advisors, LLC Tortoise Midstream MLP Separate Acct	10.15%	0 CPS	TCZ1	ICS
Trillium Asset Management LLC Large Cap Core w/Catholic Values	0.00%	0 CPS	TAM2	CES
Trillium Asset Management LLC Large Cap Core	0.00%	0 CPS	TAM1	CES
Uniplan Investment Counsel Uniplan REIT Portfolio	0.00%	0 CPS	UNI2	CES
Vaughan Nelson Investment Management Value Opportunity	0.00%	0 BPS	VNV2	CES
Vaughan Nelson Investment Management Small Capitalization Value	0.00%	0 CPS	VNVM	CES
Victory Capital Management Inc. INCORE Inv Grade Convertibles (MA)	0.00%	0 CPS	SPR-C	Select 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
Victory Capital Management Inc. Diversified Equity	0.00%	0 CPS	SPR2	CES
Victory Capital Management Inc. INCORE Inv Grade Convertibles (MA)	0.00%	0 CPS	SPR3	CES
Virtus Fund Advisors AllianzGI Global Sustain ADR MA	0.00%	0 CPS	AGS4	CES
Virtus/NFJ NFJ Dividend Value MA	0.00%	0 CPS	NFJ2	CES
Volaris Capital Management LLC Volatility Income Strategy	0.00%	0 BPS	VOL1	CES
Voya Investment Management Co., LLC. Enhanced Yield Fixed Income	62.90%	0 BPS	FSC-1	Select UMA
Voya Investment Management Co., LLC. Voya Intermediate Fixed Income SMA	42.40%	0 BPS	FSC-F	Select UMA
Voya Investment Management Co., LLC. Voya High Yield SMA	32.70%	0 CPS	INH-H	Select UMA
Voya Investment Management Co., LLC. Voya Corporate Leaders 100 SMA	0.00%	0 BPS	FSCB	CES
Voya Investment Management Co., LLC. Voya Large Cap Core Growth	0.00%	0 BPS	FSCC	CES
Voya Investment Management Co., LLC. Voya High Yield SMA	32.70%	0 BPS	FSC4	CES
Voya Investment Management Co., LLC. Voya Enhanced Yield Fixed Income SMA	62.90%	0 BPS	FSCK	CES
Voya Investment Management Co., LLC. Voya Intermediate Fixed Income SMA	42.40%	0 BPS	FSC5	CES
Walden Asset Management Walden SMID Cap Equity	95.00%	0 BPS	WLM3	ICS
WCM Investment Management Focused Growth International	95.00%	0 CPS	WCM2	CES
Weaver C. Barksdale & Associates Inc Weaver Intermediate Fixed	100.00%	0 BPS	WCB4	CES
Weaver C. Barksdale & Associates Inc Weaver Short Controlled Risk Fixed	100.00%	0 BPS	WCB3	CES
Weaver C. Barksdale & Associates Inc Weaver Core Controlled Risk Fixed	100.00%	0 BPS	WCB1	CES
WEDGE Capital Management, L.L.P. Intermediate Aggregate Fixed Income	100.00%	0 CPS	WED5	CES
WEDGE Capital Management, L.L.P. QVM - Large Cap Value	100.00%	0 CPS	WED4	CES
WEDGE Capital Management, L.L.P. QVM - Large Cap Value	100.00%	0 CPS	WED1	ICS
WestEnd Advisors Global Balanced	0.00%	0 CPS	WEA3	CES
WestEnd Advisors Global Equity	0.00%	0 CPS	WEA2	CES
WestEnd Advisors U.S. Sector	0.00%	0 CPS	WEA5	CES
WestEnd Advisors Large-Cap Core Equity	0.00%	0 CPS	WEA1	CES
Western Asset Management Company US High Yield	97.00%	0 CPS	WTMB	CES
Western Asset Management Company US Core Plus	97.00%	0 CPS	WTMC	CES
Western Asset Managed Muni SMA	97.00%	0 CPS	WTM-G	Select UMA
Western Asset Corp Bond Ladders 1-10	97.00%	0 CPS	WTM-F	Select UMA
Western Asset Corp Bond Ladders 1-5	97.00%	0 CPS	WTM-E	Select UMA
Western Asset Short Term Municipal Fixed Income	97.00%	0 CPS	WTM-6	Select UMA
Western Asset Core Bond SMA	97.00%	0 CPS	WTM-9	Select UMA
Western Asset Active Bond Aggregate	97.00%	0 CPS	WTM-B	Select UMA
Western Asset GSM 5 Year Portfolio	97.00%	0 CPS	WTM-2	Select UMA
Western Asset GSM 3 Year Portfolio	97.00%	0 CPS	WTM-4	Select UMA
Western Asset GSM 7 Year Portfolio	97.00%	0 CPS	WRN-F	Select UMA
Western Asset Core Plus Portfolios	97.00%	0 CPS	WTM-A	Select UMA
Western Asset CurrentMarket Muni SMA	97.00%	0 CPS	WSN-M	Select UMA
Western Asset Managed Muni SMA	97.00%	0 CPS	WTMG	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
Western Asset Corp Bond Ladders 1-10	97.00%	0 CPS	WTMF	CES
Western Asset Corp Bond Ladders 1-5	97.00%	0 CPS	WTME	CES
Western Asset ShortTerm MunicipalSMA	97.00%	0 CPS	WTMA	CES
Western Asset Enhanced Cash SMA	97.00%	0 CPS	WEC	CES
Western Asset Active Bond Interm SMA	97.00%	0 CPS	WTM8	CES
Western Asset Act. Bond Gov/Corp SMA	97.00%	0 CPS	WTM9	CES
Western Asset Active Bond Aggreg SMA	97.00%	0 CPS	SBB	CES
Western Asset Core Plus SMA	97.00%	0 CPS	WTM1	CES
Western Asset Core Bond SMA	97.00%	0 CPS	WTM2	CES
Western Asset Govt/Corp SMA	97.00%	0 CPS	SAA	CES
Western Asset CurrentMarket Muni SMA	97.00%	0 CPS	WTM4	CES
Western Asset GSM 5-Year SMA	97.00%	0 CPS	SAF	CES
Western Asset GSM 3-Year SMA	97.00%	0 CPS	SAT	CES
Western Asset GSM 7-Year SMA	97.00%	0 CPS	WTM6	CES
Westfield Capital Management Mid Cap Growth Equity	0.00%	0 CPS	WES5	CES
Westfield Capital Management Small Cap Growth Equity	89.18%	0 CPS	WES2	CES
Westfield Capital Management Small/Mid Cap Growth Equity	89.10%	0 CPS	WES1	CES
Westfield Capital Management Large Cap Growth Equity	85.85%	0 CPS	WES3	CES
Westfield Capital Management All Cap Growth Equity	88.61%	0 CPS	WES4	ICS
Westwood Management Corporation SmallCap Value	1.00%	1 CPS	WWD3	CES
Winslow Capital Management, LLC. U.S. Large Cap Growth	0.00%	0 BPS	WIN1	CES
Zacks Investment Management, Inc. Zacks All Cap Core Strategy	0.00%	0 CPS	ZAK1	CES
Ziegler Capital Management Red Granite Large Cap Growth Equity	0.00%	0 CPS	RGG2	CES
Ziegler Capital Management MVP Small Cap Core	0.00%	0 CPS	MVP1	CES
Ziegler Capital Management Core Fixed Income	0.00%	0 CPS	LOT5	ICS

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