

## Step-out Trade Information

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 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. 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. For this reason, your manager may find that placing trades with Morgan Stanley or Morgan Stanley’s affiliates is often the most favorable trading option for you. For Morgan Stanley’s SMA manager programs identified above where the manager has the authority to trade away from Morgan Stanley, it is expected that many of the transactions will be traded through Morgan Stanley or Morgan Stanley’s affiliates. However, 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, their trades to outside broker-dealers. Transactions through any other broker-dealer would normally include additional trading related costs included in the net price for trades executed away from Morgan Stanley. These additional trading costs 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. The information is for calendar year 2018 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. 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:<sup>1</sup>

<sup>1</sup>For more detailed information on trading (including related costs) please refer to the ADV Brochure for the program(s) you are utilizing, which is available at [www.morganstanley.com/ADV](http://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)
Advent Capital Management Balanced Convertible Non-QIB Composi	100%	0
Advent Capital Management Phoenix Convertible Income (CES & UMA)	100%	0
Advent Capital Management, LLC Phoenix Convertible Wrap Strategy	100%	0
Affinity Core Equity	0%	0
Agincourt Capital Management, LLC Core Fixed Income	100%	0
Alliance Bernstein L.P. Tax-Aware Fixed Income (Low TaxBracket) (CES & UMA)	62.58%	0
Alliance Bernstein L.P.AB Concentrated Int'l Growth (MA)	0%	0
Alliance Bernstein L.P.AB Concentrated US Growth	0%	0
Alliance Bernstein L.P.AB Municipal High Quality Portfolio (SMA) (CES & UMA)	90.77%	0
Alliance Bernstein L.P.AB Strategic Research Balanced (MA) (CES & UMA)	0%	0
Alliance Bernstein L.P.AB Tax Aware Fixed Income (MA) (CES & UMA)	62.58%	0
Alliance Bernstein L.P.Tax-Aware Fixed Income (Medium TaxBracket) (CES & UMA)	62.58%	0
AllianceBernstein L.P. AB Strategic Research (MA)	0%	0
Allianz GI Global Sustain ADR SMA	0%	0
Allianz GI NFJ Dividend Value	0%	0
Algert Global LLC International Small Cap	N/A	N/A
AMI Asset Management Large Cap Growth Equity	0%	0
AMI Asset Management Small Cap Growth Equity	0%	0
Amundi Pioneer Asset Management Fundamental Growth	0%	0
Anchor Capital Advisors LLC Balanced Value	0%	0
Anchor Capital Advisors LLC Mid Cap Value	0%	0
Ancora Advisors Ancora/Thelen Small Mid Cap	0%	0
Aperio Group Custom Strategies	0%	0
Aperio Group Full Custom - Total US Mkt SRI	0%	0
Aperio Group LLC Developed World	0%	0
Aperio Group Standard - Total US MKt SRI	0%	0
Appleton Partners, Inc. Municipal Bond (CES & UMA)	100%	0
Aristotle Capital Boston Small/Mid Cap Equity	0%	0

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)
Aristotle Capital Management Value Equity	0%	0
Asset Preservation Advisors APA Intermediate Composite	100%	0
Asset Preservation Advisors HQ Intm Tax Exempt	100%	0
Atalanta Sosnoff Intermediate Duration Fixed Income	0%	0
Atalanta Sosnoff Capital LLC Large Cap Equity	0%	0
Atalanta Sosnoff Capital LLC Balanced	0%	0
Atlanta Capital Management Co. High Quality Select Equity	0%	0
Atlanta Capital Management Co. High Quality SMID Cap	0%	0
Bahl & Gaynor, Inc. Income Growth	0%	0
Becker Capital Large Cap Value	0%	0
BlackRock Core Bond w/ BATS (CES & UMA)	100%	0
BlackRock Customized Core Bond	100%	0
BlackRock Equity Dividend SMA	0%	0
BlackRock Equity Dividend w/Catholic Values	0%	0
BlackRock Fundamental Core Taxable SMA	100%	0
BlackRock Global Dividend SMA	0%	0
BlackRock Global Dividend w/Catholic Values	0%	0
BlackRock Global Fixed Income SMA	100%	0
BlackRock Intermediate Duration Portfolios	100%	0
BlackRock Intermediate Muni - SMA	100%	0
BlackRock Inc Multi - Asset Income MF/ETIF: Moderate (MAPS)	0%	0
BlackRock Inc Multi - Asset Income MF/ETIF: Conservative (MAPS)	0%	0
BlackRock Intermediate Taxable FI - SMA	100%	0
BlackRock Inc Multi - Asset Income MF/ETIF: Growth (MAPS)	0%	0
BlackRock International Dividend ADR	0%	0
BlackRock Laddered Municipal Fixed Income 10-20 Years (CES & UMA)	100%	0
BlackRock Laddered Municipal Fixed Income 1-10 Years (CES & UMA)	100%	0
BlackRock Laddered Municipal Fixed Income 1-5 Years (CES & UMA)	100%	0

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)
BlackRock Laddered Municipal Fixed Income 5-15 Years (CES & UMA)	100%	0
BlackRock Large Cap Core SMA	0%	0
BlackRock Large Cap Value SMA	0%	0
BlackRock Large Cap Value w/Catholic Values	0%	0
BlackRock Long Term Muni - SMA	100%	0
BlackRock Managed Account Short Duration	100%	0
BlackRock PPM Fundamental Core Taxable SMA	100%	0
BlackRock PPM Global Fixed Income SMA	100%	0
BlackRock PPM Intermediate Municipal FI SMA	100%	0
BlackRock PPM Intermediate Taxable FI SMA	100%	0
BlackRock PPM Long Term Municipal FI SMA	100%	0
BlackRock PPM Short Term Muni - SMA	100%	0
BlackRock PPM Short Term Taxable FI SMA	100%	0
BlackRock Short Term Municipal FI SMA	100%	0
BlackRock Short Term Taxable Fixed Income SMA	100%	0
BlackRock U.S. LgCap Values Based Non Lendable	0%	0
BMO Asset Management Corp. Disciplined Large-Cap Growth	0%	0
BMO Asset Management Corp. Disciplined Large-Cap Value	0%	0
BMO Asset Management Corp. Disciplined Micro-Cap	0%	0
Boston Partner Large Cap Value Eq	0%	0
Boston Partners Small/Mid Cap Value Eq	0%	0
Boyd Watterson Asset Management Investment Grade Intermediate (CES & UMA)	100%	0
Boyd Watterson Ultra Enhanced Core SMA Fixed Income (CES & UMA)	100%	0
Brandes Investment Partners Global Balanced	12.31%	7 - 20 BPS
Brandes Investment Partners Global Balanced Value	11.79%	7 - 20 BPS
Brandes Investment Partners Global Equity	18.79%	7 - 25 BSP
Brandes Investment Partners Global Small-Mid Cap Equity	28.85%	7 - 20 BPS
Brandes Investment Partners International Equity	31.15%	7 - 20 BPS

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Brandes Investment Partners US Value Equity	1.33%	2 - 2 CPS
Brandes Investment Partners Emerging Markets Equity	46.18%	7 - 25 BPS
Brandes Investment Partners - SMA Div Emerging Markets Value Eq - SMA	46.38%	7 - 25 BPS
Brandywine Global Investment Mgmt Classic Large Cap Value	0%	0
Brandywine Global Investment Mgmt Global Fixed Income	0%	0
Breckinridge Capital Advisors, Inc.Intermediate Tax-Efficient Strategy (CES & UMA)	99%	0
Breckinridge Capital Advisors, Inc.Intermediate Tax-Efficient Sustainab (CES & UMA)	100%	0
Breckinridge Capital Advisors, Inc.Intermediate Term Taxable Bond Strategy	100%	0
Breckinridge Intermediate Government Credit	100%	0
Breckinridge Intermediate Sustainable Government (CES & UMA)	99%	0
Cadinha & Co. Conservative Asset Allocator	0%	0
Calamos Advisors U.S. Convertible 80/20 Strategy - SMA	89.71%	0
Calamos Advisors Calamos U.S. Convertible Strategy	82.11%	0
Calamos Advisors Convertible 100% - SMA Strategy	89.71%	0
Cambiar Investors European Equities	0%	0
Cambiar Investors LLC Global Equity	0%	0
Cambiar Investors LLC International Equity	0%	0
Cambiar Investors LLC International Equity ADR	43%	0 - 7.599 BPS
Cambiar Investors LLC Large Cap Value Equity	0%	0
Cambiar Investors LLC Small Cap Value	0%	0
Cambiar Investors Small/Mid Cap Value	0%	0
Capital Group Long Municipal SMA	0%	0
Capital Group Capital Group Global Equity SMA	0%	2 - 4 CPS
Capital Group Capital Group Intl. Equity SMA	0%	2 - 4 CPS
Capital Group Capital Group PCS U.S. Equity	0%	2 - 4 CPS
Capital Group World Dividend Growers SMA	0%	2 - 4 CPS
CBRE Clarion Securities CBRE Clarion US Real Estate Str	0%	0
Center Coast Capital Advisors Center Coast MLP SMA	0%	0

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CenterSquare Investment Management U.S. REIT Separate Account	0%	0
Chartwell Investment Partners Intermediate Fixed Income	100%	0
Chartwell Investment Partners Mid Cap Value	0%	0
Connors Investor Services, Inc. Covered Call	N/A	N/A
Chartwell Investment Partners Intermediate Fixed Income	100%	0
Chartwell Investment Partners Short Duration BB High Yield Fixed	100%	0
Chilton Trust Global (CES & UMA)	100%	0
Chilton Trust Short Term Crossover Municipals (CES & UMA)	100%	0
Chilton Trust Short Term Taxable (CES & UMA)	100%	0
Chilton Trust Crossover Municipal (CES & UMA)	100%	0
Chilton TrustTaxable (CES & UMA)	100%	0
Churchill Management Group Premier Wealth Tactical	3%	1 - 1.4 CPS
Cincinnati Asset Management Domestic High Yield Corporate Fixed Income	100%	0
Cincinnati Asset Management Investment Grade Fixed Income (CES & UMA)	100%	0
Cincinnati Asset Management Short Duration Fixed Income (CES & UMA)	100%	0
Cincinnati Asset Management, Inc.Broad Market Corporate Bond Program	100%	0
Cincinnati Asset Management, Inc.Broad Market Corporate Bond Program	100%	0
Cincinnati Asset Management, Inc.High Yield Corporate Fixed-Income	100%	0
Clarkston Capital Partners, LLC SMID Cap Strategy	N/A	N/A
ClearBridge All Cap Value Equity (MA)	95.27%	1.5 CPS
ClearBridge All Cap Value ESG (MA)	N/A	N/A
ClearBridge All Cap Value ESG/Catholic Values	100%	1.11 CPS
ClearBridge Appreciation ESG	97.74%	1.12 CPS
ClearBridge Dividend Strategy	36.7%	1.66 CPS
ClearBridge International Growth ADR	16.1%	1.31 CPS
ClearBridge International Growth ADR ESG	N/A	N/A
ClearBridge International Value ADR	59.93%	1.07 CPS
ClearBridge Investments, LLC. All Cap Growth (CES)	55.87%	1.39 CPS

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ClearBridge Investments, LLC. ClearBridge Large Cap Growth ESG	67.36%	1.15 CPS
ClearBridge Investments, LLC. Dividend Strategy ESG	0%	0
ClearBridge Investments, LLC. ClearBridge Appreciation	100%	1.33 CPS
ClearBridge Large Cap Growth	29.41%	1.25 CPS
ClearBridge Large Cap Growth ESG/Catholic Values	55.74%	1.21 CPS
ClearBridge Large Cap Value	49.86%	1.02 CPS
ClearBridge Large Cap Value ESG MA	N/A	N/A
ClearBridge Large Cap Value ESG/Catholic Values	31.66%	0.82 CPS
ClearBridge Mid Cap Core	100%	0.15 CPS
ClearBridge Multi Cap Growth ESG	2.42%	1.47 CPS
ClearBridge Multi-Cap Growth Equity	21.99%	0.28 CPS
ClearBridge Small Cap Growth	96.12%	0
ClearBridge Taxable Fixed Income SMA	100%	0
Columbia Management Contrarian Large Cap Core	0%	0
Columbia Management Dividend Income (MA)	0%	0
Columbia Management Focused Large Cap Value	0%	0
Columbia Management Select Large Cap Growth(MA)	0%	0
Community Capital Management, Inc. Core Fixed Income Composite (CES & UMA)	0%	0
Compass Group LLC Latin American Corporate Debt	100%	0
Confluence Investment Management Large Cap Value	0%	0
Confluence Investment Management Small Cap Value	0%	0
Congress Asset Management Company Balanced Portfolio	0%	0
Congress Asset Management Company Large Cap Growth Wrap Composite	0%	0
Congress Asset Management Mid Cap Growth	0%	0
Congress Asset Management Small Cap Growth	0%	0
Cooke & Bieler Large Cap Value	0%	0
Cove Street Capital, LLC Classic Value Small Cap Plus	0%	0
Credit Suisse Asset Management Limited Duration Tax-Advantaged FI (CES & UMA)	100%	0

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Credit Suisse Intermediate Tax Adv FI (CES & UMA)	100%	0
Crossmark Global Investments Custom SRI Equity Index	0%	0
Crossmark Global Investments Custom SRI International Equity Index	0%	0
CS Mckee Aggregate Fixed Income	0%	0
Cumberland Advisors Total Return Taxable Fixed Income	100%	0
Cumberland Advisors, Inc.Fixed Income and Cash Portfolios	100%	0
Cumberland Advisors, Inc.Municipal Bonds Total Return (CES & UMA)	100%	0
Cushing Management, L.P.Cushing MLP Alpha Total Return Strat	0%	0
D.F. Dent & Company, Inc.Small Cap Growth	0%	0
Davis Advisors Large Cap Value	0%	0
Davis Advisors Davis Multi Cap Equity	0%	0
Davis Advisors Davis Global ADR SMA	0%	0
Delaware Investments Intermediate Aggregate Duration US Government (CES & UMA)	99%	0
Delaware Investments International Equity ADR-London (MA)	77.91%	0 - 6 CPS
Delaware Investments Large Cap Growth Equity	0%	0
Delaware Investments Large Cap Value Equity	13.01%	0 - 2 CPS
Delaware Investments Low Duration US Government (CES & UMA)	99%	0
Delaware Investments Small Cap Value Equity	29.05%	0 - 2 CPS
Delaware Investments SMID Cap Growth Equity (CES & UMA)	2.94%	0 - 2 CPS
DF Dent and Company Mid Cap Growth	0%	0
Dolan McEniry Capital Management Core Plus	100%	0
Dolan McEniry Capital Management Credit	100%	0
Eagle Asset ManagementSmall Cap Growth - Retail (MA)	0%	0
Eagle Capital Management, LLC Eagle Equity	N/A	N/A
Earnest Partners, LLC Mid Cap Value	0%	0
Earnest Partners, LLC Small Cap Value	0%	0
Earnest Partners, LLC Small/Mid Cap Core	0%	0
Eaton Vance Management Investment Grade Aggregate Core Bond	100%	0



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Eaton Vance Management Ladder Corp Int	100%	0
Eaton Vance Management Laddered Corporate Strategy - Intermediate	100%	0
Eaton Vance Management Laddered Corporate Strategy - Long	100%	0
Eaton Vance Management Laddered Corporate Strategy - Short (CES & UMA)	100%	0
Eaton Vance Management Large Cap Value Equity	100%	0
Eaton Vance Management Managed Munis Interm Maturity (MA) (CES & UMA)	100%	0
Eaton Vance Management Managed Munis Long Maturity (MA)	100%	0
Eaton Vance Management Managed Munis Short Maturity (MA) (CES & UMA)	100%	0
Eaton Vance Management TABS Interm Muni CES	100%	0
Eaton Vance Management TABS Laddered Muni Intm (CES & UMA)	100%	0
Eaton Vance Management TABS Laddered Muni Long	100%	0
Eaton Vance Management TABS Laddered Muni-Short (CES & UMA)	100%	0
Eaton Vance Management TABS Limited Maturity Muni (MA)	100%	0
Eaton Vance Management TABS Long Maturity Muni	100%	0
Eaton Vance Management TABS Strategies Intermediate	100%	0
Eaton Vance ManagementLaddered Corporate Strategy - Intermediate	100%	0
Eaton Vance ManagementTABS Laddered Muni - Long (MA)	100%	0
Eaton Vance ManagementTax Advantaged Bond Strategy Limited	100%	0
Eaton Vance ManagementTax Advantaged Bond Strategy Long	100%	0
Edge Asset Management SMID Dividend Income WO MLPS SMA	0%	0
Edge Asset ManagementSMID Dividend Income W MLPS SMA	0%	0
Edgewood Management LLC Large Cap Growth	N/A	N/A
Energy Income Partners Energy Infrastructure and MLP Income Strategy	0%	0
Epoch Investment Partners, Inc.Global Equity Shareholder Yield	0%	0
Equity Investment Corporation All Cap Value Equity	0%	0
Equity Investment Corporation Large Cap Value Equity	0%	0
Falcon Point Capital, LLC Small Cap Growth Strategy	0%	0
Fayez Sarofim Large Cap Equity	0%	0

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Federated Clover Investment Advisors All Cap Value	0%	0
Federated Investors Core Aggregate-Fixed Income	100%	0
Federated Investors Core Plus-Fixed Income	100%	0
Federated Investors MDT Small Cap Core	0%	0
Federated Investors Strategic Value Dividend	0%	0
Federated Investors, Inc.Core Broad (Core Plus) (MA)	100%	0
Federated Investors, Inc.Federated Clover Small Cap Value	0%	0
Federated Investors, Inc.Int'l Strategic Val Dividend ADR(MA)	0%	0
Federated Investors, Inc.MDT All Cap Core (SMA)	0%	0
Federated Investors, Inc.MDT Large Cap Value	0%	0
Federated Investors, Inc.MDT Mid Cap Growth (SMA)	0%	0
Federated Investors, Inc.MDT Small Cap Value	0%	0
Federated Investors, Inc.MDT Tax Aware All Cap Core (SMA)	0%	0
Fiduciary Management Inc All Cap Equity	0%	N/A
Fiduciary Management Inc Large Cap	0%	N/A
Fiduciary Management Inc Small Cap Equity	0%	N/A
Fiera Capital Small Cap Growth	0%	0
Fiera Capital Small/Mid Growth	0%	0
Frontier Capital Management Co LLC Frontier Mid Cap Growth	N/A	N/A
Frontier Capital Management Co. LLC Frontier Capital Appreciation	N/A	N/A
Foundry Partners Micro Cap Value	85%	0
Foundry Partners All Cap Value	0%	0
Franklin Templeton Investments Franklin Inter Municipal FI SMA (CES & UMA)	100%	0
Franklin Templeton Investments Franklin Intermediate Term FI (CES & UMA)	10%	0
Franklin Templeton Investments Franklin Small Cap Growth SMA	0%	0
Franklin Templeton Investments Templeton International Equity SMA	0%	0
Franklin Templeton Investments Templeton Intl ORD Equity SMA	0%	0
Franklin Templeton Investments Templeton World Balanced SMA (CES & UMA)	0%	0

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Fuller & Thaler Asset Management Inc Small Cap Growth	0%	0
Fuller & Thaler Asset Management Behavioral Small-Cap Growth	0%	0
Fuller & Thaler Asset Management Small Cap Value	0%	0
Gamco Investors All Cap Value Equity	N/A	N/A
Goldman Sachs Asset Mgmt. L.P. US Mid Cap Value	0%	0
Goldman Sachs Asset Management, L.P. (GSAM) GS Tax-Advantaged Core Strategy S&P 500	0%	N/A
Goldman Sachs Asset Mgmt. L.P. US Strategic Growth	0%	0
Geneva Capital Management Mid Cap Growth Equity	0%	0
Geneva Capital Management Small Cap	0%	N/A
Geneva Capital Management Midcap	0%	N/A
Geneva Capital Management Allcap	0%	N/A
GMO Benchmark Free Allocation Strategy	0%	0
Goldman Sachs Asset Mgmt.US Mid Cap Value	0%	0
GMO International All Country Equity Allocation Strategy	0%	0
Great Lakes Advisors, LLC.Disciplined Smid Cap Catholic Values	0%	0
Great Lakes Advisors, LLC.Disciplined Tax Managed LargeCap	0%	0
Great Lakes Advisors, LLC.Sustainable Responsible LargeCap	0%	0
Great Lakes Advisors, LLC.Sustainable Responsible SMidCap	0%	0
Great Lakes Disciplined All Cap	0%	0
Great Lakes Disciplined Large Cap	0%	0
Great Lakes Disciplined Large Cap ESG	0%	0
Great Lakes Disciplined Smid Cap	0%	0
Great Lakes Disciplined SR Large Cap Catholic Values	0%	0
Great Lakes Disciplined SR Large Cap Clean Energy	0%	0
Great Lakes Disciplined TaxManaged All Cap	0%	0
GW&K Investment Management Municipal Bond Strategy (CES & UMA)	100%	0 - 0.5 BPS
GW&K Investment Management Small / Mid Cap Core	0%	0
GW&K Investment Management, LLC Small Cap Core Strategy	0%	0

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Hahn Capital Management HCM Mid Cap Value	0%	0
Hancock Horizon Investments Large Cap Value	0%	0
Harding Loevner LPGlobal Equity ADR	100%	3.149 BPS
Harding Loevner LPInternational Equity ADR	72.97%	13.49 BPS
Harris Associates L.P. U.S. Concentrated	0%	0
HGK Asset Management International Equity	0%	0
HGK Asset Management Large Cap Value	0%	0
HGK Asset Management Small Cap Value	0%	0
Hoisington Investment Management Co. Macroeconomic Fixed Income	100%	0
Horizon Asset Management LLC Core Value	0%	0
IndexIQ Advisors LLC.IQ Hedge Multi-Strategy SMA	0%	0
Invesco Diversified Dividend	0%	0
Invesco Growth and Income SMA/WRAP	0%	0
Invesco Intermed Term Muni Income SMA/WRAP (CES & UMA)	100%	0
Invesco International ADR Growth - SMA/WRAP	88.69%	0 -20 BPS
Invesco Long Municipal Income SMA/WRAP (CES & UMA)	0%	0
Invesco US REITs	36.91%	0
Invesco Limited Term Municipal Inc SMA/WRAP (CES & UMA)	100%	0
J.P. Morgan Asset Management Intermediate Municipal Bond - MA	0%	0
J.P. Morgan Asset Management International ADR - MA	0%	0
J.P. Morgan Asset Management Municipal Ladder Yield Curve Enhanced (CES & UMA)	0%	0
James Capital Alliance, Inc. US 60-Plus All Cap Balanced	0%	0
James Capital Alliance, Inc. US All Cap Balanced	0%	0
Janus Capital Management LLCJanus Conc Growth MA (LCG Retail)	0%	0
John Hancock Asset ManagementFundamental Large Cap Core Wrap	0%	0
JP Morgan Asset Management Large Cap Growth	0%	N/A
JP Morgan Asset Management U.S. Mid Cap Growth	0%	N/A
JP Morgan Asset Management Core Bond	0%	0

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JP Morgan Asset Management Equity Income – MA	0%	N/A
JP Morgan Asset Management Intermediate Municipal Bond	0%	0
JP Morgan Asset Management Mid Cap Value	0%	0
JP Morgan Asset Management Municipal STEP 1-5 Year (CES & UMA)	0%	0
JP Morgan Asset Management Municipal STEPS 1-10 Year (CES & UMA)	0%	0
JP Morgan Asset Management Municipal STEPS 1-17 Years (CES & UMA)	0%	0
JP Morgan Asset Management Value Advantage – MA	0%	N/A
JP Morgan Multi Asset Income: Moderate (MAPs)	N/A	N/A
JP Morgan Multi Asset Income: Moderate Conservative (MAP)	N/A	N/A
JP Morgan Multi Asset Income: Moderate Growth (MAP)	N/A	N/A
Karpus Investment Management Fixed Income Management	35%	0
Karpus Investment Management International Equity Composite	0%	0
Karpus Investment Management Conservative Balanced	17.5%	0
Kennedy Capital Management, Inc. Mid Cap Value	0%	0
Kovitz Investment Group, LLC Core Equity	0%	0
Lazard Asset Management Developing Markets Equity Select ADR	95%	8 - 2 CPS (range of additional costs is a debit of 8 cps to a credit of 2cps)
Lazard Asset Management Emerging Markets Equity ADR	95%	8 - 2 CPS (range of additional costs is a debit of 8 cps to a credit of 2cps)
Lazard Asset Management Global Equity Select ADR	75%	8 - 2 CPS (range of additional costs is a debit of 8 cps to a credit of 2cps)
Lazard Asset Management International Equity Select ADR	95%	8 - 2 CPS (range of additional costs is a debit of 8 cps to a credit of 2cps)
Lazard Asset Management International Equity Select w/ Emerging Markets ADR	95%	8 - 2 CPS (range of additional costs is a debit of 8 cps to a credit of 2cps)

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Lazard Asset Management LLC Global Balanced Select ADR - SMA	75%	8 - 2 CPS (range of additional costs is a debit of 8 cps to a credit of 2cps)
Lazard Asset Management US Equity Concentrated - SMA	40%	0
Lazard Asset Management US Equity Select - SMA	40%	0
Lazard Asset Management LLC Global Balanced Select ADR - SMA	75%	8 - 2 CPS (range of additional costs is a debit of 8 cps to a credit of 2cps)
Legg Mason Inc Balanced Income	49.6%	0.77 CPS
Legg Mason Inc Dividend Strategy Balanced Tax Favored 60/40	71.48%	1.66 CPS
Legg Mason Inc. Lg Grwth Bal 60/40 Tax Favored	39.88%	1.51 CPS
Legg Mason Inc.AC Growth Bal 70/30 Taxable	17.61%	1.43 CPS
Legg Mason Inc.All Cap Growth Balanced Taxable 60/40	N/A	N/A
Legg Mason Inc.All Cap Value Bal 60/40 Taxable	73.28%	1.47 CPS
Legg Mason Inc.Appreciation Bal w Muni Tax Favored 60/40	36.57%	1.28 CPS
Legg Mason Inc.Dividend Strat Bal 70/30 Tax Favored	35.94%	1.65 CPS
Legg Mason Inc.Dividend Strat Bal 70/30 Taxable	19.54%	1.64 CPS
Legg Mason Inc.Dividend Strategy Bal w Muni 60/40 Tax Favored	29.09%	1.64 CPS
Legg Mason Inc.Large Cap Growth ESG Balanced 60/40 Taxable	32.86%	1.29 CPS
Legg Mason Inc.Legg Mason Apprec Bal wMuni 70/30	31.03%	1.27 CPS
Legg Mason Inc.Legg Mason Appreciation Balanced 60/40 taxable	38.85%	1.28 CPS
Legg Mason Inc.Legg Mason Appreciation Balanced 70/30 taxable	36.12%	1.30 CPS
Legg Mason Inc.Legg Mason Balanced Inc w/Muni 70/30	100%	0.76 CPS
Legg Mason Inc.Legg Mason Balanced Income 70/30 SMA	95.01%	0.75 CPS
Legg Mason Inc.Legg Mason Balanced Income w/Muni	43.06%	0.77 CPS
Legg Mason Inc.Legg Mason Dividend Strategy Bal 60/40 Taxable	35.22%	1.65 CPS
Legg Mason Inc.Lg Cp Growth Bal 60/40 Taxable	52.69%	1.53 CPS
Legg Mason Inc.Lrg Gr ESG Bal 70-30 Taxable	70.27%	1.28 CPS
Legg Mason Inc.Western Asset Active Bond Gov-Corp (UMA & CES)	97%	0

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)
Legg Mason Inc. Western Asset Active Bond Intermediate Portfolios	97%	0
Legg Mason Inc. Western Asset GSM Gov/Corp (UMA & CES)	97%	0
Legg Mason Inc. All Cap Growth Balanced Taxable 60/40	33.93%	1.46 CPS
Longfellow Investment Mgmt Company Intermediate Duration Fixed Income	100%	0
Longfellow Investment Mgmt Company Short Duration Fixed Income	100%	0
Loomis, Sayles & Company Intermediate Duration Fixed Income	0%	0
Loomis, Sayles & Company Small/Mid Cap Equity	0%	0
Loomis, Sayles & Company, L.P. Core	0%	0
Lord, Abnett & Co., LLC Convertibles MA	91.2%	0
Lord, Abnett & Co., LLC Large Cap Value MA	0%	0
Lord, Abnett & Co., LLC Long Municipal MA	88.3%	0
Lord, Abnett & Co., LLC Value Equity MA	0%	0
Lord, Abnett & Company Intermediate Muni SMA (CES & UMA)	80.2%	0
Lord Abnett & Co. LLC Core Plus Total Return	N/A	N/A
Lord, Abnett & Company Managed Municipal Ladders: 1-10 Year (CES & UMA)	99.6%	0
Lord, Abnett & Company Managed Municipal Ladders: 1-15 Year (CES & UMA)	66%	0
Lord, Abnett & Company Managed Municipal Ladders: 1-20 Year (CES & UMA)	88.4%	0
Lord, Abnett & Company Managed Municipal Ladders: 1-5 Year (CES & UMA)	93.4%	0
Lord, Abnett & Company Managed Municipal Ladders: 5-10 Year (CES & UMA)	75.2%	0
Lord, Abnett & Company Managed Municipal Ladders: 5-15 Year (CES & UMA)	80.2%	0
Lord, Abnett & Company Value Balanced - Taxable	0%	0
Lyrical Asset Management U.S. Value Equity	0%	0
MacKay Shields LLC Convertible Securities	75.14%	0
Madison Investment Advisors Intermediate Corporate Only	100%	0
Madison Investment Advisors Intermediate Fixed Income	100%	0
Madison Investment Advisors Intermediate Government Only (CES/ UMA)	100%	0
Madison Investment Advisors, LLC Intermediate Govt/Corp Bond (CES & UMA)	100%	0
Madison Investment Advisors, LLC Large Cap Equity	0%	0

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)
Madison Investment Advisors, LLC Ltd Dur Govt Only Bd Sub-Advisory MA (CES & UMA)	100%	0
Madison Investment Advisors, LLC Mid Cap Equity	0%	0
Managed Advisory Portfolio Solutions Intermediate Municipal	0%	0
Managed Advisory Portfolio Solutions Investment Grade Floating Rate Corporate Bond	0%	0
Managed Advisory Portfolio Solutions Laddered Municipal Intermediate	0%	0
Managed Advisory Portfolio Solutions Short Duration Municipal	0%	0
Managed Advisory Portfolio Solutions Short Term Corporate Bond	0%	0
Manning & Napier Advisors Disciplined Value	0%	0
Manning & Napier Advisors U.S. Core Equity	0%	0
Manning & Napier Advisors, Inc. Non-U.S. Equity	0%	0
McDonnell Investment Management, LLC 1-3 Year Government (CES & UMA)	100%	0
McDonnell Investment Management All Government Taxable	100%	0
McDonnell Investment Management Core Aggregate	100%	0
McDonnell Investment Management Government/Credit Bond Portfolio (CES/ UMA)	100%	0
McDonnell Investment Management, LLC - Medium Municipal Bond (CES & UMA)	100%	0
McDonnell Investment Management, LLC 1-3 Year Government/Credit	100%	0
McDonnell Investment Management, LLC Government/Credit	100%	0
McDonnell Investment Management, LLC SMA - All Government Bond	100%	0
McDonnell Investment Management, LLC Intermediate Municipal	100%	0
McLean Budden Limited MB Global Equity	0%	0 - 1 CPS
MFS Investment Management MFS Large Cap Value (SMA) (CES & UMA)	3.5%	0
Montag & Caldwell, LLC Large Cap Growth	0%	0
Miller Howard Income Equity (with MLPs)	0%	0
Miller Howard Income Equity (without MLPs)	0%	0
Miller Howard Infrastructure	0%	0
Miller Howard MLP Strategy	0%	0
Minneapolis Port. Mgmt. Group All Cap Value	0%	0
Neuberger Berman International ADR (WRAP)	0%	0



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)
National Investment Services, Inc. (NIS) Core Fixed Income	N/A	N/A
Neuberger Berman Sustainable Equity	0%	0
Neuberger Berman S&P 500 Hedged Option Premium Strategy	0%	0
Neuberger Berman Small Cap Intrinsic Value (WRAP)	0%	0
New Century Advisors, LLC NCA Global Inflation-Linked Bond	0%	0
New Century Advisors LLC NCA Short Duration Plus	0%	0
NewSouth Capital Management NSCM Small/Mid Value Equity	75%	0
NorthCoast Asset Management CANSLIM Investment Program strategy	0%	0
NorthPointe Capital Large Cap Value	0%	0
Nuance Investments Nuance Mid Cap Value	0%	0
Nuveen Asset Management Intermediate Gov/Credit FI	86%	1 - 10 BPS
Nuveen Asset Management Intermediate Term Municipal HQ MA (CES & UMA)	99%	1 - 10 BPS
Nuveen Asset Management Municipal Bond Ladder 10-25 Yr (MA) (CES & UMA)	99%	1 - 10 BPS
Nuveen Asset Management Municipal Bond Ladder 1-7 Year (MA) (CES & UMA)	99%	1 - 10 BPS
Nuveen Asset Management Municipal Bond Ladder 5-15 Year (MA) (CES & UMA)	99%	1 - 10 BPS
Nuveen Asset Management Municipal Limited Maturity (MA) (CES & UMA)	99%	1 - 10 BPS
Nuveen Asset Management Municipal Long Term (MA) (CES & UMA)	99%	1 - 10 BPS
Nuveen Asset Management Nuveen Municipal Total Return (MA) (CES & UMA)	68%	1 - 10 BPS
Nuveen Asset Management Small Cap Value	0%	0
Nuveen Asset Management Stable Growth	0%	0
Nuveen Asset ManagementNuveen Municipal Total Return (MA)	99%	1 - 10 BPS
Nuveen Asset ManagementStable Growth	0%	0
Nuveen Dividend Value	0%	0
Nuveen Municipal Bond Ladder Strategy 1-10 Yr (CES & UMA)	99%	1 - 10 BPS
Nuveen Municipal Bond Ladder Strategy 1-15 Yr (CES & UMA)	99%	1 - 10 BPS
NWQ Investment Management Co., LLC International Value Equity	0%	0
NWQ Investment Management Co., LLC Special Equity	0%	0
NWQ Investment Management Co., LLC International Value (IADR)	0%	0

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)
NWQ Investment Management Large Cap Value	0%	0
NWQ Investment Management Large Cap Value Balanced (CES & UMA)	9%	0
Oak Ridge Investments All Cap Growth	20%	3 -5 BPS
Oak Ridge Investments Small/Mid Cap Growth	78%	3 -5 BPS
O'Shaughnessy Asset Mgmt, LLC Enhanced Dividend Strategy	0%	0
O'Shaughnessy Asset Mgmt, LLC Market Leaders Value	0%	0
Pacific Income Advisers Inc.Market Duration (SMA) (CES & UMA)	75%	0.001 BPS
Pacific Income Advisers Limited Duration (CES & UMA)	75%	0.001 BPS
Pacific Income Advisers, Inc. Moderate Duration MACS (CES & UMA)	75%	0.001 BPS
Pacific Investment Mgmt. Co 1-12 Year National Muni Ladder MA (CES & UMA)	100%	0
Pacific Investment Mgmt. Co 1-18 Year National Muni Ladder MA (CES & UMA)	100%	0
Pacific Investment Mgmt. Co 1-6 Year National Muni Ladder MA (CES & UMA)	100%	0
Pacific Investment Mgmt. Co 3-11 Yr National Muni Ladder (CES & UMA)	100%	0
Pacific Investment Mgmt. Co 3-17 Yr National Muni Ladder (CES & UMA)	100%	0
Pacific Investment Mgmt. Co Core Plus - Total Return Full Auth.	100%	0
Pacific Investment Mgmt. Co Muni Bond National Intermediate - LA(CES & UMA)	100%	0
Pacific Investment Mgmt. Co Non US Hedged	100%	0
Pacific Investment Mgmt. Co PIMCO Real Return Managed Accounts	100%	0
Pacific Investment Mgmt. Co PIMCO Total Return MA	100%	0
Pacific Investment Mgmt. Co Real Return for Managed Accounts	100%	0
Pacific Investment Mgmt. CoTotal Return for Managed Accounts	100%	0
PanAgora Asset Management Large Cap Core	1.2%	0.2 - 0.6 CPS
Parametric Custom Passive Index	0%	5 BPS
Parametric Enhanced Income	0%	5 BPS
Parametric Portfolio Associates LLC Enhanced Fixed Income	0%	0
Parametric Enhanced Income Core	0%	5 BPS
Parametric Portfolio Associates Custom Core EAFE ADR	0%	5 BPS
Parametric Portfolio Associates Custom Russell 3000 / Int Ldr Corporate (60/40)	0%	5 BPS

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)
Parametric Portfolio Associates Custom Russell 3000 / Short Laddered Muni (60/40)	0%	5 BPS
Parametric Portfolio Associates Custom S&P 500 / Short Laddered Muni (60/40)	0%	5 BPS
Parametric Portfolio Associates Custom S&P500 / Int Laddered Corporate (60/40)	0%	5 BPS
Parametric Portfolio Associates Custom S&P500/MSCI EAFE ADR/Int Ldr Corp 30/30/40	0%	5 BPS
Parametric Portfolio Associates Eaton Vance/Parametric Multi Cap MSP	0%	5 BPS
Parametric Portfolio Associates Parametric Tax Managed KLD400 ( CES & UMA)	0%	5 BPS
Parametric Portfolio Associates Parametric Tax Managed MSCI EAFE ADR	0%	5 BPS
Parametric Portfolio Associates Parametric Tax Managed RU 3000 (CES & UMA)	0%	5 BPS
Parametric Portfolio Associates Parametric Tax Managed S&P 500	0%	5 BPS
Parametric Portfolio Associates Custom Core - S&P 500	0%	5 BPS
Parametric Portfolio Associates Custom Russell 3000 / Interm Laddered Muni (60/40)	0%	5 BPS
Parametric Portfolio Associates Custom S&P500/Intermediate Laddered Muni (60/40)	0%	5 BPS
Parametric Portfolio Associates Custom SP500/MSCI EAFE ADR/Sht Ldr Muni 30/30/40	1%	5 BPS
Parametric Stock Delta Shift	0%	5 BPS
Parametric Tax-Advantaged Enhanced Income Core	0%	5 BPS
PENN Capital Management Mid Cap Equity	0%	0
PENN Capital Management Opportunistic High Yield	0%	0
PENN Capital Management Small Cap Equity	95%	0
PENN Capital Management Small to Mid Cap Equity	95%	0
Pinnacle Associates Small to Mid Cap Equity	0%	0
Polen Capital Management Focus Growth	16%	0
Principal Global Equities Aligned Investors MidCap Equity SMA	0%	0
Principal Global Equities U.S. Blue Chip Equity	0%	0
Principal Global Investors Preferred Securities - Tax Advantaged	70%	0
Principal Real Estate Investors Real Estate Equity Securities SMA	0%	0
Principal Spectrum Preferred	72%	0
Jennison Associates LLC Mid Cap Growth	N/A	N/A
Reaves Asset Management Long Term Value (Utility/Energy Infr)	0%	0

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)
Reinhart Partners, Inc Genesis Private Market Value	0%	0
Reinhart Partners, IncActive Intermediate Duration	78%	0
Reinhart Partners, IncActive Intermediate Fixed Income	59%	0
Reinhart Partners, IncMid Cap Private Market Value Equity	0%	0
Renaissance International Equity ADR	0%	0
Renaissance Investment ManagementInternational Equity - Wrap (MA)	0%	0
Rice, Hall, James & Associates Micro Cap Growth	0%	0
Rice Hall James & Associates SMID Cap Opportunities	0%	0
Richard Bernstein Advisors RBA Risk-Bal G Ib ETF Strategy MA	0%	0
Richmond Capital Management Builders ProLoan Bond Fund	0%	0
Riverbridge Partners, LLC Eco Leaders	0%	0
Riverbridge Partners, LLC Small Cap Growth	0%	0
Riverbridge Partners, LLC SMID Cap Growth	0%	0
Riverfront Investment Group Conservative Growth	0%	0
Riverfront Investment Group Global Allocation	89.57%	0
Riverfront Investment Group Global Growth	0%	0
Riverfront Investment Group, LLCRIG Moderate Growth & Income	0%	0
Rothschild Asset Management Large Cap Core Equity	0%	0
Rothschild & Co. US Large Cap Value	0%	N/A
Rothschild Asset Management U.S. Small/Mid-Cap Core	0%	0
RSW Investments Market Duration Municipal	100%	0
RSW Investments, LLCMarket Duration Tax-Exempt Bond (MA)	100%	0
Ryan Labs LDI Long Duration	100%	0
Ryan Labs Short Duration Government/Credit	100%	0
Ryan Labs, Inc.Intermediate Gov/Credit	100%	0
Sage Advisory Services Core Taxable Fixed Income	100%	0
Sage Advisory Services Intermediate Corporate FI	100%	0
Sage Advisory Services, Ltd. Co.Intermediate Corporate Only	100%	0

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)
Sage Advisory Services, Ltd. Co.Intermediate Term Fixed Income (CES & UMA)	100%	0
Sage Advisory Services, Ltd. Co.Short Term Taxable Fixed Income ( CES & UMA)	100%	0
Sagewood Asset Management LLC Volatility Yield	0%	0
Salient MLP SMA	0%	0
Salient Partners, L.P.Salient MLP Total Return Fund LP	0%	0
Sands Capital Management LLC Select Growth	0.7%	0
Santa Barbara Asset Management Dividend Growth	0%	0
Sawgrass Asset Management, LLC Diversified Large Growth Equity	0%	0
Schafer Cullen Capital Management Emerging Market High Dividend	1.37%	0 - 3 CPS
Schafer Cullen Capital Management High Dividend Value Equity	1.2%	0
Schafer Cullen Capital Management International High Dividend Val. ADR	15.91%	0
Schafer Cullen Enhanced Equity Income	0%	0
Scharf Investments Scharf Core Equity	0%	0
Segall Bryant & Hamill High Yield Fixed Income	8.4%	0
Segall Bryant & Hamill All Cap Core Equity	0%	0
Segall Bryant & Hamill Core Fixed Income	100%	0
Segall Bryant & Hamill Intermediate Fixed Income	100%	0
Segall Bryant & Hamill Short Term Fixed Income	100%	0
Segall Bryant & Hamill SMID Cap Equity	0%	0
Seix Investment Advisors Core Bond Wrap (MA) (CES)	0%	0
Seix Investment Advisors Core Bond (UMA)	100%	0
Seix Investment Advisors Enhanced Bond	100%	0
Seix Investment Advisors High Quality High Yield (CES & UMA)	100%	0
Seix Investment Advisors LLC Enhanced Bond Wrap (MA)	100%	0
Seizert Capital Partners Core Equity	0%	0
Select UMA Overlay Manager Executed Transactions	1.09%	.0079 CPS
Sheets Smith Absolute Return Balanced	0%	0
Sierra Investment Partners Sierra/Pioneer Concentrated US Growth	0%	0

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)
Silvercrest Asset Management SMID CAP Equity	0%	0
Segall Bryant & Hamill All Cap Core	0%	0
Schroders International Alpha ADR	N/A	N/A
Segall Bryant & Hamill SMID Cap	0%	0
Silvercrest Asset Management Group LLC Small Cap Value	0%	0
Silvercrest Asset Management Group LLC SMID Cap Value	0%	0
Sit Investment Associates, Inc. Short Duration	100%	0
Smith Asset Management Large Cap Focused Growth	0%	0
Snow Capital Management L.P. All Cap Value	3.4%	2 - 3 CPS
Snow Capital Management Small Cap Value	0%	0
Sterling Capital ManagementMid Cap Value SMA	0%	0
Stonebridge Advisors Tax Advantaged Preferred Securities	50%	0
Stonebridge Advisors Taxable Preferred Securities	50%	0
Sustainable Growth Advisers, LPFlagship U.S. Large Cap Growth	0%	0
Systematic Financial Management, L.PMid Cap Value	0%	0
Systematic Financial Management, L.PSmall Cap Free Cash Flow	0%	0
T. Rowe Price International Core Equity ADR	0%	0
T. Rowe Price US Blue Chip Growth Equity SMA	0%	0
Taplin, Canida & Habacht, LLC Core Fixed Income	100%	0
TCW Balanced Managed Account (CES & UMA)	0%	0
TCW Concentrated Core Equities	0%	0
TCW Intermediate	0%	0
TCW MetWest Core Plus Fixed Income	0%	0
TCW MetWest Low Duration	0%	0
TCW Relative Value Large Cap	0%	0
TCW Relative Value Mid Cap	0%	0
The Boston Company Mid Cap Opportunistic Value	0%	0
The London Company Income Equity	0%	0 - 1 CPS

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)
The London Company Mid Cap	0%	0 - 1 CPS
The London Company Small Cap	0%	0 - 1 CPS
The London Company SMID Cap	0%	0 - 1 CPS
Thomas Partners Inc.TPI Dividend Growth Strategy K-1	34.14%	0 - 2 CPS
Thomas Partners Inc.TPI Dividend Growth Strategy Non K-1	34.14%	0 - 2 CPS
Thomas White International, Ltd.Emerging Markets ADR	0%	0
Thornburg Investment Management International Growth ADR	0%	0
Thornburg Investment Management Limited Term Municipal	100%	0
Thornburg Investment Management, Inc International ADR Strategy	79%	4 – 4.4 CPS
Thornburg Investment Management, IncInternational Equity Strategy	0%	0
Totoise Capital Advisors. LLC Tortoise Midstream MLP Separate Acct	45%	0
Todd Asset Management LLC International Intrinsic Value	0%	0
Trillium Asset Management Large Cap Core	0%	0
Trillium Asset Management Large Cap Core w/Catholic Values	0%	0
Uniplan Investment Counsel Equity REIT	0%	0
Vaughan Nelson Investment Management Value Opportunity	0%	0
Vaughan Nelson Small Capitalization Value	0%	0
Victory Capital Management Diversified Equity	0%	0
Victory Capital Management Inc.Munder Mid-Capitalization Growth	0%	0
Victory Capital Management INCORE Investment Grade Convertible (CES & UMA)	0%	0
Victory Capital Management NewBridge (MA) Large Cap Gro	0%	0
Volaris Capital Management LLC Volatility Income Strategy	0%	0
Voya Investment Management - Intermediate Fixed Income SMA (CES)	82%	0
Voya Investment Management - Strategic Fixed Income SMA (UMA)	42%	0
Voya Investment Management Co., LLC.Enhanced Yield Fixed Income	42%	0
Voya Investment Management Co., LLC.Voya High Yield SMA (UMA & CES)	43%	0
Voya Investment Management Co., LLC.Voya Large Cap Growth S&P 500	0%	0
Voya Investment Management Corporate Leaders 100 SMA	0%	0

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)
Walden Asset Management Walden SMID Cap Equity	100%	0
Weaver C. Barksdale & Associates Core Aggregate Controlled Risk	100%	0
Weaver C. Barksdale & Associates Intermediate	100%	0
Weaver C. Barksdale & Associates Short Controlled Risk	100%	0
WEDGE Capital Management, L.L.P. Core- Aggregate Fixed Portfolio	100%	0
WEDGE Capital Management, QVM - Large Cap Value	0%	0
Wedgewood Partners, Inc. Large Cap Focused Growth	0%	0
Wells Capital Management CoreBuilder Municipal	52.64%	0
Wells Capital Management Fundamental All Cap Growth Equity	0%	0
Wells Capital Management Fundamental Large Cap Select Growth	0%	0
Wells Capital Management Fundamental Mid Cap Growth Equity	0%	0
Wells Capital Management Fundamental SMID Cap Growth Equity	0%	0
Wells Fargo funds Management Core Builder Municipal	52.65%	0
West End Advisors Global Balanced	0%	0
West End Advisors Global Equity	0%	0
West End Advisors Large Cap Core	0%	0
Western Asset Management Company US Core Full Discretion	97%	0
Western Asset Management Corporate Bond Ladder Portfolios (1-10 Years) (CES & UMA)	97%	0
Western Asset Management Corporate Bond Ladder Portfolios (1-5 Years) (CES & UMA)	97%	0
Western Asset Management GSM 3- Year Portfolios (CES & UMA)	97%	0
Western Asset Management GSM 5- Year Portfolios (CES & UMA)	97%	0
Western Asset Management GSM 7- Year Portfolios (CES & UMA)	97%	0
Western Asset Management U.S. High Yield	97%	0
Western Asset-Legg Mason RETAIL Western Asset Active Bond Aggregate (UMA & CES)	97%	0
Western Asset-Legg Mason RETAIL Western Asset Managed Municipals Portfolio (CES & UMA)	97%	0
Western Asset-Legg Mason RETAIL Short Term Municipal Fixed Income	97%	0
Western Asset-Legg Mason RETAIL Western Asset Active Bond Interm SMA	97%	0
Western Asset-Legg Mason RETAIL Western Asset Core Bond SMA (CES & UMA)	97%	0



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)
Western Asset-Legg Mason RETAILWestern Asset Core Plus Portfolios SMA (CES & UMA)	97%	0
Western Asset-Legg Mason RETAILWestern Asset Current Market Muni (UMA & CES)	97%	0
Western Asset-Legg Mason RETAILWestern Asset Enhanced Cash SMA	97%	0
Western Asset-Legg Mason RETAILWestern Asset ShortTerm Municipal SMA	97%	0
Westfield Capital Large Cap Growth Equity	73.94%	0
Westfield Capital Management All Cap Growth Equity	93.73%	0
Westfield Capital Mid Cap Growth Equity	0%	0
Westfield Capital Small Cap Growth Equity	84.68%	0
Westfield Capital Small/Mid Cap Growth Equity	88.21%	0
Winslow Capital Management U.S. Large Cap Growth	0%	N/A
Winslow Capital Management Large Cap Growth	0%	0
Wright Investors' Service, Inc. Intermediate Core Fixed Income	0%	0
Wright Investors' Service, Inc. Large Cap Growth	0%	0
Zacks Investment Management All Cap Core	0%	0
Ziegler Capital MVP Small Cap Core	0%	0
Ziegler Capital Red Granite Large Cap Growth Equity	0%	0