

## ALL LIPPER INDEX COMPONENTS

12/30/2024

Index Name    Full Fund Name

Nasdaq Symbol

Open-End

### US Diversified Equity

#### Lipper Alternative Event Driven Funds Index

AQR Funds: AQR Diversified Arbitrage Fund; Class I Shares	ADAIX
Arbitrage Funds: Arbitrage Fund; Class I Shares	ARBFX
Arbitrage Funds: Water Island Event-Driven Fund; Class I Shares	AEDFX
BlackRock Large Cap Series Funds, Inc.: BlackRock Event Driven Equity Fund; Institutional Shares	BILFX
Driehaus Mutual Funds: Driehaus Event Driven Fund	DEVFX
Gabelli Investor Funds, Inc: Gabelli ABC Fund; Class AAA Shares	GABFX
Investment Managers Series Trust II: First Trust Merger Arbitrage Fund; Class I Shares	VARFX
Merger Fund; Institutional Class Shares	MERFX
NexPoint Funds I: NexPoint Merger Arbitrage Fund; Class Z Shares	HMEFX
Virtus Event Opportunities Trust: Virtus Westchester Event Driven Fund; Class I Shares	WCEIX

## Lipper Alternative Global Macro Funds Index

Advisors Preferred Trust: Dynamic Alpha Macro Fund; Institutional Class Shares	DYMX
AIM Investment Funds (Invesco Investment Funds): Invesco Balanced-Risk Allocation Fund; Class A Shares	ABRZX
AIM Investment Funds (Invesco Investment Funds): Invesco Global Allocation Fund; Class A Shares	QVGIX
Allspring Funds Trust: Allspring Absolute Return Fund; Institutional Class Shares	WABIX
AQR Funds: AQR Macro Opportunities Fund; Class R6 Shares	QGMRX
AQR Funds: AQR Multi-Asset Fund; Class I Shares	AQRIX
BlackRock Funds: BlackRock Tactical Opportunities Fund; Investor A Shares	PCBAX
BNY Mellon Advantage Funds, Inc: BNY Mellon Dynamic Total Return Fund; Class I Shares	AVGRX
Columbia Funds Series Trust I: Columbia Adaptive Risk Allocation Fund; Institutional Class Shares	CRAZX
Columbia Funds Series Trust II: Columbia Global Opportunities Fund; Class A Shares	IMRFX
Deutsche DWS International Fund, Inc: DWS Global Macro Fund; Class S Shares	DBIVX
Dunham Funds: Dunham Dynamic Macro Fund; Class N Shares	DNAVX
Eaton Vance Mutual Funds Trust: Eaton Vance Global Macro Absolute Return Advantage Fund; Class I Shares	EGRIX
Eaton Vance Mutual Funds Trust: Eaton Vance Global Macro Absolute Return Fund; Class I Shares	EIGMX
GMO Trust: Benchmark-Free Allocation Fund; Class III Shares	GBMFX
GMO Trust: GMO Benchmark-Free Fund; Class III Shares	GBFFX
GMO Trust: GMO Strategic Opportunities Allocation Fund; Class III Shares	GBATX
GPS Funds II: GuidePath Multi-Asset Income Allocation Fund; Service Class Shares	GPMIX
Investment Managers Series Trust II: AXS Income Opportunities Fund; Class I Shares	OIOIX
Investment Managers Series Trust II: First Trust Multi-Strategy Fund; Class I Shares	FTMIX
MFS Series Trust XV: MFS Global Alternative Strategy Fund; Class I Shares	DVRIX
Northern Lights Fund Trust: Toews Hedged Oceana Fund	THIDX
Northern Lights Fund Trust: Toews Hedged US Fund	THLGX
Northern Lights Fund Trust: Toews Hedged US Opportunity Fund	THSMX
Permanent Portfolio Family of Funds: Permanent Portfolio; Class I Shares	PRPFX
PIMCO Funds: PIMCO All Asset All Authority Fund; Institutional Class Shares	PAUIX
PIMCO Funds: PIMCO All Asset Fund; Institutional Class Shares	PAAIX
PIMCO Funds: PIMCO Global Core Asset Allocation; Institutional Class Shares	PGAIX
Pioneer Series Trust VI: Pioneer Equity Premium Income Fund; Class Y Shares	PMYRX
Virtus Strategy Trust: Virtus Global Allocation Fund; Class R6 Shares	AGASX

---

**Lipper Alternative Long/Short Equity Funds Index**

AB Cap Fund, Inc: AB Select US Long/Short Portfolio; Advisor Class Shares	ASYLX
Alger Funds II: Alger Dynamic Opportunities Fund; Class Z Shares	ADOZX
Allspring Funds Trust: Allspring Global Long/Short Equity Fund; Class R6 Shares	AGAWX
AQR Funds: AQR Long-Short Equity Fund; Class I Shares	QLEIX
BlackRock Funds: BlackRock Global Equity Market Neutral Fund; Institutional Class Shares	BDMIX
Calamos Investment Trust: Calamos Phineus Long/Short Fund; Class I Shares	CPLIX
CRM Mutual Fund Trust: CRM Long/Short Opportunities Fund; Institutional Shares	CRHX
Diamond Hill Funds: Diamond Hill Long-Short Fund; Class I Shares	DHLSX
Dunham Funds: Dunham Monthly Distribution Fund; Class N Shares	DNMDX
Easterly Funds Trust: Easterly Hedged Equity Fund; Class I Shares	JDIEX
Eaton Vance Mutual Funds Trust: Parametric Volatility Risk Premium - Defensive Fund; Class I Shares	EIVPX
Federated Hermes Adviser Series: Federated Hermes MDT Market Neutral Fund; Institutional Class Shares	QQMNX
Forum Funds: MAI Managed Volatility Fund; Institutional Class Shares	MAIPX
FundVantage Trust: Gotham Enhanced Return Fund; Institutional Class Shares	GENIX
Gateway Trust: Gateway Equity Call Premium Fund; Class Y Shares	GCPYX
Hussman Investment Trust: Hussman Strategic Market Cycle Fund	HSGFX
John Hancock Investment Trust: Disciplined Value Global Long/Short Fund; Class I Shares	JAKUX
John Hancock Investment Trust: John Hancock Seaport Long/Short Fund; Class I Shares	JSFDX
Meeder Funds: Meeder Spectrum Fund; Institutional Class Shares	SRUIX
Mutual Fund Series Trust: Catalyst/Millburn Hedge Strategy Fund; Class I Shares	MBXIX
Neuberger Berman Alternative Funds: Neuberger Berman Long Short Fund; Institutional Class Shares	NLSIX
Northern Lights Fund Trust II: Invenomic Fund; Institutional Class Shares	BIVIX
Northern Lights Fund Trust III: Covered Bridge Fund; Class I Shares	TCBIX
Northern Lights Fund Trust IV: Anchor Risk Managed Equity Strategies Fund; Advisor Class Shares	ATEAX
PIMCO Funds: PIMCO RAE Worldwide Long/Short PLUS Fund; Institutional Class Shares	PWLIX
Professionally Managed Portfolios: Otter Creek Long/Short Opportunity Fund; Institutional Class Shares	OTTRX
RBB Fund, Inc: Boston Partners Long/Short Research Fund; Institutional Class Shares	BPIRX
Series Portfolios Trust: Equable Shares Hedged Equity Fund; Class I Shares	EQHEX
Valued Advisers Trust: LS Opportunity Fund; Institutional Class Shares	LSOFX
Weitz Funds: Partners III Opportunity Fund; Institutional Class Shares	WPOPX

**Index Name    Full Fund Name****Nasdaq Symbol****Lipper Alternative Managed Futures Funds Index**

American Beacon Funds: American Beacon AHL Managed Futures Strategy Fund; Class Y Shares	AHLYX
AQR Funds: AQR Managed Futures Strategy Fund; Class I Shares	AQMIX
Forum Funds II: ABR 75/25 Volatility Fund; Institutional Class Shares	VOLSX
Investment Managers Series Trust III: Manteio Managed Futures Strategy Fund; Class I Shares	CSAIX
LoCorr Investment Trust: LoCorr Macro Strategies Fund; Class I Shares	LFMIX
LoCorr Investment Trust: LoCorr Market Trend Fund; Class I Shares	LOTIX
PIMCO Funds: PIMCO TRENDS Managed Futures Strategy Fund; Institutional Class Shares	PQTIX
RBB Fund, Inc: Abbey Capital Futures Strategy Fund; Class I Shares	ABYIX
RBB Fund, Inc: Campbell Systematic Macro Fund; Class I Shares	EBSIX
Virtus Alternative Solutions Trust: Virtus AlphaSimplex Managed Futures Strategy Fund; Class I Shares	ASFYX

**Lipper Dedicated Short Bias Funds Index**

Federated Hermes Equity Funds: Federated Hermes Prudent Bear Fund; Institutional Class Shares	PBRIX
Managed Portfolio Series: Leuthold Grizzly Short Fund	GRZZX
PIMCO Funds: PIMCO StocksPLUS Short Fund; Institutional Class Shares	PSTIX
ProFunds: Bear ProFund; Investor Shares	BRPIX
ProFunds: UltraBear ProFund; Investor Shares	URPIX
ProFunds: UltraShort NASDAQ-100 ProFund; Investor Shares	USPIX
Rydex Dynamic Funds: Inverse NASDAQ-100 2x Strategy Fund; H-Class Shares	RYVNX
Rydex Dynamic Funds: Inverse S&P 500 2x Strategy Fund; H-Class Shares	RYTPX
Rydex Series Funds: Inverse NASDAQ-100 Strategy Fund; Investor Class Shares	RYAIX
Rydex Series Funds: Inverse S&P 500 Strategy Fund; Investor Class Shares	RYURX

**Lipper Diversified Leveraged Funds Index**

Direxion Funds: Direxion Monthly NASDAQ-100 Bull 1.25X Fund; Investor Class Shares	DXNLX
Direxion Funds: Direxion Monthly NASDAQ-100 Bull 1.75x Fund; Investor Class Shares	DXQLX
Direxion Funds: Direxion Monthly S&P 500 Bull 1.75x Fund; Investor Class Shares	DXSLX
Direxion Funds: Direxion Monthly Small Cap Bull 1.75x Fund; Investor Class Shares	DXRLX
ProFunds: Biotechnology UltraSector ProFund; Investor Shares	BIPIX
ProFunds: Consumer Discretionary UltraSector ProFund; Investor Shares	CYPIX
ProFunds: Financials UltraSector ProFund; Investor Shares	FNPIX
ProFunds: Health Care UltraSector ProFund; Investor Shares	HCPIX
ProFunds: Industrials UltraSector ProFund; Investor Shares	IDPIX
ProFunds: Internet UltraSector ProFund; Investor Shares	INPIX
ProFunds: Oil & Gas Equipment & Services UltraSector ProFund; Investor Class Shares	OEPIX
ProFunds: Precious Metals UltraSector ProFund; Investor Shares	PMPIX
ProFunds: ProFund Energy UltraSector ProFund; Investor Shares	ENPIX
ProFunds: Semiconductor UltraSector ProFund; Investor Shares	SMPIX
ProFunds: Technology UltraSector ProFund; Investor Shares	TEPIX
ProFunds: UltraBull ProFund; Investor Shares	ULPIX
ProFunds: UltraChina ProFund; Investor Class Shares	UGPIX
ProFunds: UltraDow 30 ProFund; Investor Class Shares	UDPIX
ProFunds: UltraJapan ProFund; Investor Class	UJPIX
ProFunds: UltraLatin America ProFund; Investor Class	UBPIX
ProFunds: UltraMid-Cap ProFund; Investor Class	UMPIX
ProFunds: UltraNASDAQ-100 ProFund; Investor Shares	UOPIX
ProFunds: UltraSmall-Cap ProFund; Investor Class	UAPIX
Rydex Dynamic Funds: Dow 2x Strategy Fund; H-Class Shares	RYCVX
Rydex Dynamic Funds: NASDAQ-100 2x Strategy Fund; H-Class Shares	RYVYX
Rydex Dynamic Funds: Russell 2000 2x Strategy Fund; H-Class Shares	RYRSX
Rydex Dynamic Funds: S&P 500 2x Strategy Fund; H-Class Shares	RYTNX
Rydex Series Funds: Mid-Cap 1.5x Strategy Fund; H-Class Shares	RYMDX
Rydex Series Funds: Monthly Rebalance NASDAQ-100 2x Strategy Fund; H-Class Shares	RMQHX
Rydex Series Funds: Nova Fund; Investor Shares	RYNVX

## =====

**Lipper Equity Income Funds Index**

Advisors' Inner Circle Fund: Hamlin High Dividend Equity Fund; Institutional Class Shares	HHDFX
AIM Equity Funds (Invesco Equity Funds): Invesco Diversified Dividend Fund; Class A Shares	LCEAX
AIM Sector Funds (Invesco Sector Funds): Invesco Dividend Income Fund; Class A Shares	IAUTX
American Century Capital Portfolios, Inc: Equity Income Fund; Investor Class Shares	TWEIX
BlackRock Equity Dividend Fund; Institutional Shares	MADVX
BlackRock Funds: BlackRock High Equity Income Fund; Institutional Shares	BMCIX
Columbia Funds Series Trust I: Columbia Dividend Income Fund; Institutional Class Shares	GSFTX
Columbia Funds Series Trust II: Columbia Dividend Opportunity Fund; Class A Shares	INUTX
Delaware Group Equity Funds IV: Macquarie Growth & Income Fund; Class A Shares	FGINX
Federated Hermes Equity Funds: Federated Hermes Strategic Value Dividend Fund; Institutional Shares	SVAIX
Fidelity Devonshire Trust: Fidelity Equity-Income Fund	FEQIX
Fidelity Financial Trust: Fidelity Equity Dividend Income Fund	FEQTX
Franklin Investors Securities Trust: Franklin Equity Income Fund; Class A Shares	FISEX
Goldman Sachs Trust: Goldman Sachs US Equity Dividend and Premium Fund; Institutional Class Shares	GSPKX
Hartford Mutual Funds, Inc: Hartford Dividend and Growth Fund; Class A Shares	IHGIX
Hartford Mutual Funds, Inc: Hartford Equity Income Fund; Class A Shares	HQIAX
Investment Managers Series Trust: Bahl & Gaynor Income Growth Fund; Class I Shares	AFNIX
JPMorgan Trust II: JPMorgan Equity Income Fund; Class I Shares	HLIEX
Legg Mason Partners Investment Trust: ClearBridge Dividend Strategy Fund; Class A Shares	SOPAX
Lord Abbett Affiliated Fund, Inc; Class A Shares	LAFFX
Lord Abbett Research Fund, Inc: Lord Abbett Dividend Growth Fund; Class A Shares	LAMAX
Nuveen Investment Funds, Inc: Nuveen Dividend Value Fund; Class R6 Shares	FFEFX
Nuveen Investment Trust II: Nuveen Dividend Growth Fund; Class I Shares	NSBRX
Parnassus Income Funds: Parnassus Core Equity Fund; Investor Shares	PRBLX
Principal Funds, Inc: Equity Income Fund; Institutional Class Shares	PEIIX
Sterling Capital Funds: Sterling Capital Equity Income Fund; Institutional Class Shares	BEGIX
T Rowe Price Equity Income Fund, Inc	PRFDX
Vanguard Fenway Funds: Vanguard Equity Income Fund; Admiral Shares	VEIRX
Vanguard Specialized Funds: Vanguard Dividend Growth Fund; Investor Shares	VDIGX
Victory Portfolios III: Victory Income Stock Fund; Fund Shares Class	USISX

---

**Lipper Large-Cap Core Funds Index**

Advisers Investment Trust: State Farm Growth Fund	STFGX
AIM Equity Funds (Invesco Equity Funds): Invesco Main Street Fund; Class A Shares	MSIGX
American Funds Fundamental Investors; Class A Shares	ANCFX
Columbia Funds Series Trust I: Columbia Contrarian Core Fund; Institutional Class Shares	SMGIX
DFA Investment Dimensions Group Inc: US High Relative Profitability Portfolio; Institutional Class Share	DURPX
Fidelity Concord Street Trust: Fidelity ZERO Large Cap Index Fund	FNILX
Fidelity Contrafund	FCNTX
Fidelity Contrafund K6 Fund	FLCNX
Fidelity Contrafund: Fidelity Advisor New Insights Fund; Class I Shares	FINSX
Fidelity Contrafund: Fidelity Series Opportunistic Insights Fund	FVWSX
Fidelity Salem Street Trust: Fidelity SAI US Low Volatility Index Fund	FSUVX
Franklin Managed Trust: Franklin Rising Dividends Fund; Class A Shares	FRDPX
Investment Company of America; Class A Shares	AIVSX
Jensen Quality Growth Fund Inc; Class I Shares	JENIX
JPMorgan Trust I: JPMorgan US Equity Fund; Class R6 Shares	JUEMX
JPMorgan Trust I: JPMorgan US Research Enhanced Equity Fund; Class R6 Shares	JDEUX
Legg Mason Partners Investment Trust: ClearBridge Appreciation Fund; Class A Shares	SHAPX
Massachusetts Investors Growth Stock Fund; Class A Shares	MIGFX
Pioneer Fund; Class A Shares	PIODX
Putnam Sustainable Leaders Fund; Class A Shares	PNOPX
Russell Investment Company: Tax-Managed US Large Cap Fund; Class S Shares	RETSX
Schwab Investments: Schwab 1000 Index Fund	SNXFX
State Street Institutional Investment Trust: State Street US Core Equity Fund	SSAQX
T Rowe Price Dividend Growth Fund, Inc	PRDGX
T Rowe Price US Equity Research Fund, Inc; Class I Shares	PCCOX
T Rowe Price US Large-Cap Core Fund, Inc; Class Z Shares	TRZLX
Vanguard Chester Funds: Vanguard PRIMECAP Fund; Admiral Shares	VPMAX
Vanguard Index Funds: Vanguard Large-Cap Index Fund; Admiral Shares	VLCAX
Vanguard Quantitative Funds: Vanguard Growth & Income Fund; Admiral Shares	VGIAX
Vanguard World Fund: Vanguard FTSE Social Index Fund; Admiral Class Shares	VFTAX

**Lipper Large-Cap Growth Funds Index**

AB Large Cap Growth Fund, Inc; Advisor Class Shares	APGYX
Advisors' Inner Circle Fund: Edgewood Growth Fund; Institutional Class Shares	EGFIX
AIM Counselor Series Trust (Invesco Counselor Series Trust): Invesco American Franchise Fund; Class A Shares	VAFAX
American Century Mutual Funds, Inc: Growth Fund; Investor Class Shares	TWCGX
American Century Mutual Funds, Inc: Ultra Fund; Investor Class Shares	TWCUX
Fidelity Magellan Fund	FMAGX
Fidelity Mt Vernon Street Trust: Fidelity Growth Company Fund	FDGRX
Fidelity Mt Vernon Street Trust: Fidelity Series Growth Company Fund	FCGSX
Fidelity Salem Street Trust: Fidelity Large Cap Growth Index Fund	FSPGX
Fidelity Salem Street Trust: Fidelity SAI US Quality Index Fund	FUQIX
Fidelity Securities Fund: Fidelity Blue Chip Growth Fund	FBGRX
Fidelity Securities Fund: Fidelity Blue Chip Growth K6 Fund	FBCGX
Fidelity Securities Fund: Fidelity OTC Portfolio	FOCPX
Fidelity Securities Fund: Fidelity Series Blue Chip Growth Fund	FSBDX
FundVantage Trust: Polen Growth Fund; Institutional Class Shares	POLIX
Growth Fund of America; Class A Shares	AGTHX
Harbor Funds: Harbor Capital Appreciation Fund; Institutional Class Shares	HACAX
Janus Investment Fund: Janus Henderson Forty Fund; Class D Shares	JFRDX
Janus Investment Fund: Janus Henderson Research Fund; Class D Shares	JNRFX
JPMorgan Trust II: JPMorgan Large Cap Growth Fund; Class I Shares	SEEGX
Loomis Sayles Funds II: Loomis Sayles Growth Fund; Class Y Shares	LSGRX
MFS Series Trust II: MFS Growth Fund; Class A Shares	MFEGX
Principal Funds, Inc: LargeCap Growth Fund I; Class R-6 Shares	PLCGX
Professionally Managed Portfolios: Akre Focus Fund; Institutional Class Shares	AKRIX
T Rowe Price Blue Chip Growth Fund, Inc	TRBCX
T Rowe Price Equity Funds, Inc: T Rowe Price Large-Cap Growth Fund; Class I Shares	TRLGX
T Rowe Price Growth Stock Fund, Inc	PRGFX
TIAA-CREF Funds: Nuveen Large Cap Growth Index Fund; Class R6 Shares	TILIX
Vanguard Index Funds: Vanguard Growth Index Fund; Admiral Class Shares	VIGAX
Vanguard World Fund: Vanguard US Growth Fund; Investor Shares	VWUSX



**Lipper Large-Cap Value Funds Index**

AIM Counselor Series Trust (Invesco Counselor Series Trust): Invesco Growth & Income Fund; Class A Shares	ACGIX
American Mutual Fund; Class A Shares	AMRMX
Clipper Funds Trust: Clipper Fund	CFIMX
Columbia Funds Series Trust II: Columbia Large Cap Value Fund; Class A Shares	INDZX
Columbia Funds Series Trust II: Columbia Multi-Manager Value Strategies Fund; Institutional Class Shares	CZMVX
Cullen Funds Trust: Cullen High Dividend Equity Fund; Class I Shares	CHDVX
Davis New York Venture Fund, Inc: Davis New York Venture Fund; Class A Shares	NYVTX
DoubleLine Funds Trust: DoubleLine Shiller Enhanced CAPE; Class I Shares	DSEEX
Fidelity Concord Street Trust: Fidelity Large Cap Stock Fund	FLCSX
Fidelity Destiny Portfolios: Fidelity Advisor Capital Development Fund; Class O Shares	FDETX
Fidelity Hastings Street Trust: Fidelity Mega Cap Stock Fund	FGRTX
Fidelity Hastings Street Trust: Fidelity Series Large Cap Stock Fund	FGLGX
Fidelity Securities Fund: Fidelity Growth & Income Portfolio	FGRIX
Homestead Funds, Inc: Value Fund	HOVLX
JPMorgan Trust I: JPMorgan US Value Fund; Class I Shares	VGIIX
Legg Mason Partners Investment Trust: ClearBridge Large Cap Value Fund; Class I Shares	SAIFX
MFS Series Trust I: MFS Value Fund; Class I Shares	MEIIX
Neuberger Berman Equity Funds: Neuberger Berman Large Cap Value Fund; Investor Class Shares	NPRTX
Optimum Fund Trust: Optimum Large Cap Value Fund; Institutional Class Shares	OILVX
Payden & Rygel Investment Group: Payden Equity Income Fund; Class SI Shares	PYVSX
Putnam Large Cap Value Fund; Class A Shares	PEYAX
Selected American Shares, Inc; Class D Shares	SLADX
T Rowe Price Value Fund, Inc; Class Z Shares	TRZAX
TIAA-CREF Funds: Nuveen Large Cap Value Fund; Class W Shares	TRLWX
Touchstone Funds Group Trust: Touchstone Dividend Equity Fund; Class A Shares	TQCAX
Transamerica Funds: Transamerica Large Cap Value; Class I2 Shares	TWQZX
Vanguard Index Funds: Vanguard Value Index Fund; Admiral Shares	VVIAX
Vanguard Windsor Funds: Vanguard Windsor II Fund; Admiral Shares	VWNAX
Voya Corporate Leaders Trust Fund	LEXCX
Washington Mutual Investors Fund; Class A Shares	AWSHX

---

**Lipper Mid-Cap Core Funds Index**

AIM Growth Series (Invesco Growth Series): Invesco Main Street Mid Cap Fund; Class A Shares	OPMSX
BlackRock Funds: iShares Russell Mid-Cap Index Fund; Class K Shares	BRMKX
Bridge Builder Trust: Bridge Builder Small/Mid Cap Value Fund	BBVSX
Bridge Builder Trust: Bridge Builder Tax Managed Small/Mid Cap Fund	BBTSX
Carillon Series Trust: Carillon Scout Mid Cap Fund; Class I Shares	UMBMX
Columbia Funds Series Trust: Columbia Select Mid Cap Value Fund; Class A Shares	CMUAX
DFA Investment Dimensions Group Inc: US Vector Equity Portfolio; Institutional Class Shares	DFVEX
Eaton Vance Growth Trust: Eaton Vance Atlanta Capital SMID-Cap Fund; Class I Shares	EISMX
Fidelity Capital Trust: Fidelity Value Fund	FDVLX
Fidelity Concord Street Trust: Fidelity Mid-Cap Stock Fund	FMCSX
Fidelity Concord Street Trust: Fidelity Mid-Cap Stock K6 Fund	FNKFX
Fidelity Devonshire Trust: Fidelity Mid Cap Value Fund	FSMVX
Fidelity Salem Street Trust: Fidelity Mid Cap Index Fund	FSMDX
Fidelity Salem Street Trust: Fidelity Mid Cap Value Index Fund	FIMVX
Ivy Funds: Macquarie Mid Cap Income Opportunities Fund; Institutional Class Shares	IVOIX
John Hancock Funds III: John Hancock Disciplined Value Mid Cap Fund; Institutional Class Shares	JVMIX
JP Morgan Fleming Mutual Fund Group, Inc: JPMorgan Mid Cap Value Fund; Class L Shares	FLMVX
JPMorgan Trust I: JPMorgan Mid Cap Equity Fund; Class R6 Shares	JPPEX
Legg Mason Partners Investment Trust: ClearBridge Mid Cap Fund; Class A Shares	SBMAX
Longleaf Partners Funds Trust: Longleaf Partners Fund	LLPFX
Lord Abbett Mid Cap Stock Fund Inc; Class A Shares	LAVLX
Parnassus Funds: Parnassus Mid Cap Fund; Institutional Class Shares	PFPMX
Principal Funds, Inc: MidCap Value Fund I; Class R-6 Shares	PCMSX
Schwab Capital Trust: Schwab US Mid-Cap Index Fund	SWMCX
Thrivent Mutual Funds: Thrivent Mid Cap Stock Fund; Class S Shares	TMSIX
Touchstone Funds Group Trust: Touchstone Mid Cap Fund; Class Y Shares	TMCPX
Vanguard Horizon Funds: Vanguard Strategic Equity Fund; Investor Class Shares	VSEQX
Vanguard Index Funds: Vanguard Mid-Cap Index Fund; Admiral Shares	VIMAX
Victory Portfolios: Victory Sycamore Established Value Fund; Class R6 Shares	VEVRX
Virtus Asset Trust: Virtus Ceredex Mid-Cap Value Equity Fund; Class I Shares	SMVTX

## Lipper Mid-Cap Growth Funds Index

Advisors' Inner Circle Fund II: Champlain Mid Cap Fund; Institutional Shares	CIPIX
AIM Investment Funds (Invesco Investment Funds): Invesco Discovery Mid Cap Growth Fd; Class A Shs	OEGAX
Artisan Partners Funds, Inc: Artisan Mid Cap Fund; Institutional Shares	APHMX
Baird Funds, Inc: Baird Mid Cap Growth Fund; Institutional Class Shares	BMDIX
Baron Investment Funds Trust: Baron Asset Fund; Institutional Class Shares	BARIX
Baron Investment Funds Trust: Baron Growth Fund; Institutional Class Shares	BGRIX
BlackRock Funds: BlackRock Mid-Cap Growth Equity Portfolio; Institutional Shares	CMGIX
BNY Mellon Funds Trust: BNY Mellon Mid Cap Multi-Strategy Fund; Class M Shares	MPMCX
BNY Mellon Investment Funds I: BNY Mellon Small/Mid Cap Growth Fund; Class I Shares	SDSCX
Bridge Builder Trust: Bridge Builder Small/Mid Cap Growth Fund	BBGSX
Brown Capital Management Mutual Funds: Brown Capital Management Small Company Fund; Institutional Share	BCSSX
Carillon Series Trust: Carillon Eagle Mid Cap Growth Fund; Class R-6 Shares	HRAUX
Columbia Acorn Trust: Columbia Acorn Fund; Institutional Class Shares	ACRNX
Fidelity Concord Street Trust: Fidelity Extended Market Index Fund	FSMAX
Franklin Strategic Series: Franklin Small-Mid Cap Growth Fund; Class A Shares	FRSGX
Hartford Mutual Funds, Inc: Hartford MidCap Fund; Class A Shares	HFM CX
Ivy Funds: Macquarie Mid Cap Growth Fund; Institutional Class Shares	IY MIX
Janus Investment Fund: Janus Henderson Enterprise Fund; Class I Shares	JMGRX
JPMorgan Trust II: JPMorgan Mid Cap Growth Fund; Class R6 Shares	JMG MX
MassMutual Select Funds: MassMutual Mid Cap Growth Fund; Class I Shares	MEFZX
MFS Series Trust IV: MFS Mid Cap Growth Fund; Class R6 Shares	OTCKX
Principal Funds, Inc: MidCap Growth Fund III; Institutional Class Shares	PPIMX
Professionally Managed Portfolios: Congress Mid Cap Growth Fund; Institutional Class Shares	IMIDX
T Rowe Price Institutional Equity Funds, Inc: T Rowe Price Institutional Mid-Cap Equity Growth Fund	PMEGX
T Rowe Price Mid-Cap Growth Fund, Inc	RPMGX
T Rowe Price New Horizons Fund, Inc; Class I Shares	PRJIX
Vanguard Index Funds: Vanguard Mid-Cap Growth Index Fund; Admiral Class Shares	VMGMX
Vanguard Whitehall Funds: Vanguard Mid-Cap Growth Fund; Investor Class Shares	VMGRX
Virtus Equity Trust: Virtus KAR Mid-Cap Core Fund; Class I Shares	VIMCX
Virtus Equity Trust: Virtus KAR Small-Mid Cap Core Fund; Class I Shares	VKSIX

---

**Lipper Mid-Cap Value Funds Index**

Advisors Series Trust: Pzena Mid Cap Value Fund; Institutional Class Shares	PZIMX
AIM Sector Funds (Invesco Sector Funds): Invesco Value Opportunities Fund; Class A Shares	VVOAX
Allspring Funds Trust: Allspring Special Mid Cap Value Fund; Institutional Class Shares	WFMIX
American Century Capital Portfolios, Inc: Mid Cap Value Fund; Class R6 Shares	AMDVX
Ariel Investment Trust: Ariel Appreciation Fund; Investor Class Shares	CAAPX
Ariel Investment Trust: Ariel Fund; Investor Class Shares	ARGFX
BlackRock Mid-Cap Value Series, Inc: BlackRock Mid-Cap Value Fund; Institutional Shares	MARFX
Capitol Series Trust: FullerThaler Behavioral Mid-Cap Value Fund; Institutional Class Shares	FTVSX
Fidelity Puritan Trust: Fidelity Low-Priced Stock Fund	FLPSX
Fidelity Puritan Trust: Fidelity Low-Priced Stock K6 Fund	FLKSX
Franklin Value Investors Trust: Franklin Mutual US Mid Cap Value Fund; Class A Shares	FRBSX
Harbor Funds: Harbor Mid Cap Value Fund; Institutional Class Shares	HAMVX
Hartford Mutual Funds, Inc: Hartford MidCap Value Fund; Class F Shares	HMVFX
Heartland Group, Inc: Heartland Mid Cap Value Fund; Investor Class Shares	HRMDX
Hotchkis & Wiley Funds: Hotchkis & Wiley Mid-Cap Value Fund; Class I Shares	HWMIX
Managed Portfolio Series: Nuance Mid Cap Value Fund; Institutional Class Shares	NMVLX
Managed Portfolio Series: Prospector Opportunity Fund	POPFX
MFS Series Trust XI: MFS Mid Cap Value Fund; Class R6 Shares	MVCKX
MoA Funds: MoA Mid Cap Value Fund	MAMVX
Morgan Stanley Institutional Fund Trust: Dynamic Value Portfolio; Class R6 Shares	MAADX
Nuveen Investment Funds Inc: Nuveen Mid Cap Value 1 Fund; Class I Shares	FSEIX
Pioneer Mid Cap Value Fund; Class A Shares	PCGRX
Prudential Investment Portfolios, Inc. 10: PGIM Quant Solutions Mid-Cap Value Fund; Class A Shares	SPRAX
T Rowe Price Mid-Cap Value Fund, Inc	TRMCX
TIAA-CREF Funds: Nuveen Mid Cap Value Fund; Class R6 Shares	TIMVX
Transamerica Funds: Transamerica Mid Cap Value Opportunities; Class I Shares	MVTIX
Transamerica Funds: Transamerica Small/Mid Cap Value; Class A Shares	IIVAX
Vanguard Index Funds: Vanguard Mid-Cap Value Index Fund; Admiral Class Shares	VMVAX
Vanguard Whitehall Funds: Vanguard Selected Value Fund; Investor Shares	VASVX
Voya Equity Trust: Voya VACS Series MCV Fund	VVJEX

**Lipper Mixed-Asset Target 2010 Funds Index**

American Funds Target Date Retirement Series: American Funds 2010 Target Date Retirement Fund; Class R6 Shs	RFTTX
Fidelity Aberdeen Street Trust: Fidelity Advisor Freedom 2010 Fund; Class A Shares	FACFX
Fidelity Aberdeen Street Trust: Fidelity Freedom 2010 Fund	FFFCX
Fidelity Aberdeen Street Trust: Fidelity Freedom Index 2010 Fund; Institutional Premium Class Shares	FFWTX
John Hancock Funds II: Multimanager 2010 Lifetime Portfolio; Class 1 Shares	JLAOX
MassMutual Select Funds: MassMutual Select T Rowe Price Retirement 2010 Fund; Class I Shares	MMXBX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement 2005 Fund	TRRFx
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement 2010 Fund	TRRAX
TIAA-CREF Funds: Nuveen Lifecycle 2010 Fund; Class R6 Shares	TCTIX
TIAA-CREF Funds: Nuveen Lifecycle Index 2010 Fund; Class R6 Shares	TLTIX

**Lipper Mixed-Asset Target 2015 Index**

American Funds Target Date Retirement Series: American Funds 2015 Target Date Retirement Fund; Class A Shares	AABTX
Empower Funds, Inc: Empower Lifetime 2015 Fund; Investor Class Shares	MXLYX
Fidelity Aberdeen Street Trust: Fidelity Advisor Freedom 2015 Fund; Class A Shares	FFVAX
Fidelity Aberdeen Street Trust: Fidelity Freedom 2015 Fund	FFVFX
Fidelity Aberdeen Street Trust: Fidelity Freedom Index 2015 Fund; Investor Class Shares	FLIFX
GuideStone Funds: MyDestination 2015 Fund; Investor Class Shares	GMTZX
Principal Funds, Inc: Principal LifeTime 2015 Fund; Institutional Class Shares	LTINX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement 2015 Fund	TRRGX
TIAA-CREF Funds: Nuveen Lifecycle 2015 Fund; Class R6 Shares	TCNIX
TIAA-CREF Funds: Nuveen Lifecycle Index 2015 Fund; Class R6 Shares	TLFIX

## Lipper Mixed-Asset Target 2020 Funds Index

American Funds Target Date Retirement Series: American Funds 2020 Target Date Retirement Fund; Class R6 Shs	RRCTX
DFA Investment Dimensions Group Inc: Dimensional 2020 Target Date Retirement Income Fund; Institutional CI S	DRIRX
Empower Funds, Inc: Empower Lifetime 2020 Fund; Investor Class Shares	MXAGX
Fidelity Aberdeen Street Trust: Fidelity Advisor Freedom 2020 Fund; Class A Shares	FDAFX
Fidelity Aberdeen Street Trust: Fidelity Flex Freedom Blend 2020 Fund	FULSX
Fidelity Aberdeen Street Trust: Fidelity Freedom 2020 Fund	FFFDX
Fidelity Aberdeen Street Trust: Fidelity Freedom Blend 2020 Fund; Premier Class Shares	FFBLX
Fidelity Aberdeen Street Trust: Fidelity Freedom Index 2020 Fund; Institutional Premium Class Shares	FIWTX
Franklin Fund Allocator Series: Franklin LifeSmart 2020 Retirement Target Fund; Class A Shares	FLRMX
John Hancock Funds II: 2020 Lifetime Blend Portfolio; Class 1 Shares	JRLOX
John Hancock Funds II: Multimanager 2020 Lifetime Portfolio; Class 1 Shares	JLDOX
JPMorgan Trust I: JPMorgan SmartRetirement 2020 Fund; Class R6 Shares	JTTYX
JPMorgan Trust I: JPMorgan SmartRetirement Blend 2020 Fund; Class R6 Shares	JSYRX
MassMutual Select Funds: MassMutual RetireSMART by JPMorgan 2020 Fund; Class I Shares	MRTDX
MassMutual Select Funds: MassMutual Select T Rowe Price Retirement 2020 Fund; Class I Shares	MMTWX
MoA Funds: MoA Clear Passage 2020 Fund	MURGX
Principal Funds, Inc: Principal LifeTime 2020 Fund; Institutional Class Shares	PLWIX
Principal Funds, Inc: Principal LifeTime Hybrid 2020 Fund; Class J Shares	PHJTX
Prudential Investment Portfolios 5: PGIM Target Date 2020 Fund; Class R6 Shares	PDDJX
Schwab Capital Trust: Schwab Target 2020 Fund	SWCRX
Schwab Capital Trust: Schwab Target 2020 Index Fund	SWYLY
State Street Institutional Investment Trust: State Street Target Retirement 2020 Fund; Class K Shares	SSBOX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement 2020 Fund	TRRBX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement Blend 2020 Fund; Class I Shares	TBLDX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement Income 2020 Fund	TRLAX
T Rowe Price Retirement Funds, Inc: T Rowe Price Target 2020 Fund; Class I Shares	TTURX
TIAA-CREF Funds: Nuveen Lifecycle 2020 Fund; Class R6 Shares	TCWIX
TIAA-CREF Funds: Nuveen Lifecycle Index 2020 Fund; Class R6 Shares	TLWIX
Transamerica Funds: Transamerica ClearTrack 2020; Class R1 Shares	TCHTX
Vanguard Chester Funds: Vanguard Target Retirement 2020 Fund; Investor Class Shares	VTWNX

## Lipper Mixed-Asset Target 2025 Index

American Century Asset Allocation Portfolios, Inc: One Choice 2025 Portfolio; Investor Class Shares	ARWIX
American Funds Target Date Retirement Series: American Funds 2025 Target Date Retirement Fund; Class A Shares	AADTX
DFA Investment Dimensions Group Inc: Dimensional 2025 Target Date Retirement Income Fund; Institutional Class Shares	DRIUX
Empower Funds, Inc: Empower Lifetime 2025 Fund; Service Class Shares	MXFLX
Fidelity Aberdeen Street Trust: Fidelity Advisor Freedom 2025 Fund; Class A Shares	FATWX
Fidelity Aberdeen Street Trust: Fidelity Freedom 2025 Fund	FFTWX
Fidelity Aberdeen Street Trust: Fidelity Freedom Blend 2025 Fund; Class K6 Shares	FHLDX
Fidelity Aberdeen Street Trust: Fidelity Freedom Index 2025 Fund; Investor Class Shares	FQIFX
Franklin Fund Allocator Series: Franklin LifeSmart 2025 Retirement Target Fund; Class A Shares	FTRTX
GuideStone Funds: MyDestination 2025 Fund; Investor Class Shares	GMWZX
John Hancock Funds II: 2025 Lifetime Blend Portfolio; Class 1 Shares	JRTBX
John Hancock Funds II: Multimanager 2025 Lifetime Portfolio; Class 1 Shares	JLEOX
JPMorgan Trust I: JPMorgan SmartRetirement 2025 Fund; Class R5 Shares	JNSIX
JPMorgan Trust I: JPMorgan SmartRetirement Blend 2025 Fund; Class R6 Shares	JBYSX
MassMutual Select Funds: MassMutual Select T Rowe Price Retirement 2025 Fund; Class I Shares	MMTFX
MFS Series Trust XII: MFS Lifetime 2025 Fund; Class R6 Shares	LTTKX
MoA Funds: MoA Clear Passage 2025 Fund	MURHX
PIMCO Equity Series: PIMCO RealPath Blend 2025 Fund; Institutional Class Shares	PPZRX
Principal Funds, Inc: Principal LifeTime 2025 Fund; Institutional Class Shares	LTSTX
Principal Funds, Inc: Principal LifeTime Hybrid 2025 Fund; Class R-6 Shares	PLFTX
Putnam Target Date Funds: Putnam Sustainable Retirement 2025 Fund; Class Y Shares	PRRPX
Schwab Capital Trust: Schwab Target 2025 Fund	SWHRX
Schwab Capital Trust: Schwab Target 2025 Index Fund	SWYDX
State Street Institutional Investment Trust: State Street Target Retirement 2025 Fund; Class K Shares	SSBSX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement 2025 Fund	TRRHX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement Blend 2025 Fund; Class I Shares	TBLEX
T Rowe Price Retirement Funds, Inc: T Rowe Price Target 2025 Fund	TRRVX
TIAA-CREF Funds: Nuveen Lifecycle 2025 Fund; Class R6 Shares	TCYIX
TIAA-CREF Funds: Nuveen Lifecycle Index 2025 Fund; Class R6 Shares	TLQIX
Vanguard Chester Funds: Vanguard Target Retirement 2025 Fund; Investor Class Shares	VTTVX

---

**Lipper Mixed-Asset Target 2030 Funds Index**

American Century Asset Allocation Portfolios, Inc: One Choice 2030 Portfolio; Class I Shares	ARCSX
American Funds College Target Date Series: American Funds College 2027 Fund; Class 529-A Shares	CSTAX
American Funds College Target Date Series: American Funds College 2030 Fund; Class 529-A Shares	CTHAX
American Funds Target Date Retirement Series: American Funds 2030 Target Date Retirement Fund; Class R6 Shs	RFETX
BlackRock Funds III: BlackRock LifePath Index 2030 Fund; Class K Shares	LINKX
Empower Funds, Inc: Empower Lifetime 2030 Fund; Investor Class Shares	MXATX
Fidelity Aberdeen Street Trust: Fidelity Advisor Freedom 2030 Fund; Class A Shares	FAFEX
Fidelity Aberdeen Street Trust: Fidelity Freedom 2030 Fund	FFFEX
Fidelity Aberdeen Street Trust: Fidelity Freedom Blend 2030 Fund; Class K6 Shares	FKHDX
Fidelity Aberdeen Street Trust: Fidelity Freedom Index 2030 Fund; Institutional Premium Class Shares	FFEGX
John Hancock Funds II: 2030 Lifetime Blend Portfolio; Class 1 Shares	JRTGX
John Hancock Funds II: Multimanager 2030 Lifetime Portfolio; Class 1 Shares	JLFOX
JPMorgan Trust I: JPMorgan SmartRetirement 2030 Fund; Class R5 Shares	JSMIX
JPMorgan Trust I: JPMorgan SmartRetirement Blend 2030 Fund; Class R6 Shares	JRBYX
MassMutual Select Funds: MassMutual Select T Rowe Price Retirement 2030 Fund; Class M5 Shares	MMTOX
MFS Series Trust XII: MFS Lifetime 2030 Fund; Class R6 Shares	MLTKX
MoA Funds: MoA Clear Passage 2030 Fund	MURIX
PIMCO Equity Series: PIMCO RealPath Blend 2030 Fund; Institutional Class Shares	PBPNX
Principal Funds, Inc: Principal LifeTime 2030 Fund; Institutional Class Shares	PMTIX
Principal Funds, Inc: Principal LifeTime Hybrid 2030 Fund; Class R-6 Shares	PLZTX
Putnam Target Date Funds: Putnam Sustainable Retirement 2030 Fund; Class Y Shares	PRRTX
Schwab Capital Trust: Schwab Target 2030 Fund	SWDRX
Schwab Capital Trust: Schwab Target 2030 Index Fund	SWYEX
State Street Institutional Investment Trust: State Street Target Retirement 2030 Fund; Class K Shares	SSBYX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement 2030 Fund	TRRCX
T Rowe Price Retirement Funds, Inc: T Rowe Price Target 2030 Fund; Class I Shares	TWRRX
TIAA-CREF Funds: Nuveen Lifecycle 2030 Fund; Class R6 Shares	TCRIX
TIAA-CREF Funds: Nuveen Lifecycle Index 2030 Fund; Class R6 Shares	TLHIX
Vanguard Chester Funds: Vanguard Target Retirement 2030 Fund; Investor Class Shares	VTHRX
Victory Portfolios III: Victory Target Retirement 2030 Fund	URTRX



## =====

**Lipper Mixed-Asset Target 2035 Index**

American Century Asset Allocation Portfolios, Inc: One Choice 2035 Portfolio; Investor Class Shares	ARYIX
American Funds College Target Date Series: American Funds College 2033 Fund; Class 529-A Shares	CTLAX
American Funds Target Date Retirement Series: American Funds 2035 Target Date Retirement Fund; Class R6 Shs	RFFTX
BlackRock Funds III: BlackRock LifePath Index 2035 Fund; Class K Shares	LIJKX
DFA Investment Dimensions Group Inc: Dimensional 2035 Target Date Retirement Income Fund; Institutional CI S	DRIGX
Empower Funds, Inc: Empower Lifetime 2035 Fund; Investor Class Shares	MXKLX
Fidelity Aberdeen Street Trust: Fidelity Advisor Freedom 2035 Fund; Class A Shares	FATHX
Fidelity Aberdeen Street Trust: Fidelity Freedom 2035 Fund; Class K Shares	FSNUX
Fidelity Aberdeen Street Trust: Fidelity Freedom Blend 2035 Fund; Premier Class Shares	FFBRX
Fidelity Aberdeen Street Trust: Fidelity Freedom Index 2035 Fund; Institutional Premium Class Shares	FFEZX
GuideStone Funds: MyDestination 2035 Fund; Investor Class Shares	GMHZX
John Hancock Funds II: 2035 Lifetime Blend Portfolio; Class 1 Shares	JRTKX
John Hancock Funds II: Multimanager 2035 Lifetime Portfolio; Class 1 Shares	JLHOX
JPMorgan Trust I: JPMorgan SmartRetirement 2035 Fund; Class R6 Shares	SRJYX
JPMorgan Trust I: JPMorgan SmartRetirement Blend 2035 Fund; Class R6 Shares	JPYRX
MassMutual Select Funds: MassMutual Select T Rowe Price Retirement 2035 Fund; Class I Shares	MMTJX
MFS Series Trust XII: MFS Lifetime 2035 Fund; Class R6 Shares	LFEXX
MoA Funds: MoA Clear Passage 2035 Fund	MURJX
PIMCO Equity Series: PIMCO RealPath Blend 2035 Fund; Institutional Class Shares	PDGZX
Principal Funds, Inc: Principal LifeTime 2035 Fund; Institutional Class Shares	LTUXX
Principal Funds, Inc: Principal LifeTime Hybrid 2035 Fund; Class J Shares	PHJJX
Putnam Target Date Funds: Putnam Sustainable Retirement 2035 Fund; Class Y Shares	PRRYX
Schwab Capital Trust: Schwab Target 2035 Fund	SWIRX
Schwab Capital Trust: Schwab Target 2035 Index Fund	SWYFX
State Street Institutional Investment Trust: State Street Target Retirement 2035 Fund; Class K Shares	SSCKX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement 2035 Fund	TRRJX
T Rowe Price Retirement Funds, Inc: T Rowe Price Target 2035 Fund	RPGRX
TIAA-CREF Funds: Nuveen Lifecycle 2035 Fund; Class R6 Shares	TCIIX
TIAA-CREF Funds: Nuveen Lifecycle Index 2035 Fund; Class R6 Shares	TLYIX
Vanguard Chester Funds: Vanguard Target Retirement 2035 Fund; Investor Class Shares	VTTHX

## Lipper Mixed-Asset Target 2040 Index

American Century Asset Allocation Portfolios, Inc: One Choice 2040 Portfolio; Investor Class Shares	ARDVX
American Funds College Target Date Series: American Funds College 2036 Fund; Class 529-A Shares	CCFAX
American Funds College Target Date Series: American Funds College 2039 Fund; Class 529-A Shares	CDJAX
American Funds Target Date Retirement Series: American Funds 2040 Target Date Retirement Fund; Class R6 Shs	RFGTX
BlackRock Funds III: BlackRock LifePath Index 2040 Fund; Class K Shares	LIKKX
Empower Funds, Inc: Empower Lifetime 2040 Fund; Investor Class Shares	MXBDX
Fidelity Aberdeen Street Trust: Fidelity Advisor Freedom 2040 Fund; Class A Shares	FAFFX
Fidelity Aberdeen Street Trust: Fidelity Freedom 2040 Fund	FFFFX
Fidelity Aberdeen Street Trust: Fidelity Freedom Blend 2040 Fund; Class K6 Shares	FHHDX
Fidelity Aberdeen Street Trust: Fidelity Freedom Index 2040 Fund; Investor Class Shares	FBIFX
John Hancock Funds II: 2040 Lifetime Blend Portfolio; Class 1 Shares	JRTTX
John Hancock Funds II: Multimanager 2040 Lifetime Portfolio; Class 1 Shares	JLIOX
JPMorgan Trust I: JPMorgan SmartRetirement 2040 Fund; Class R5 Shares	SMTIX
JPMorgan Trust I: JPMorgan SmartRetirement Blend 2040 Fund; Class R6 Shares	JOBYX
MassMutual Select Funds: MassMutual Select T Rowe Price Retirement 2040 Fund; Class M5 Shares	MMFPX
MFS Series Trust XII: MFS Lifetime 2040 Fund; Class R6 Shares	MLFKX
MoA Funds: MoA Clear Passage 2040 Fund	MURLX
PIMCO Equity Series: PIMCO RealPath Blend 2040 Fund; Institutional Class Shares	PVPNX
Principal Funds, Inc: Principal LifeTime 2040 Fund; Institutional Class Shares	PTDIX
Principal Funds, Inc: Principal LifeTime Hybrid 2040 Fund; Class R-6 Shares	PLMTX
Putnam Target Date Funds: Putnam Sustainable Retirement 2040 Fund; Class Y Shares	PRZZX
Schwab Capital Trust: Schwab Target 2040 Fund	SWERX
Schwab Capital Trust: Schwab Target 2040 Index Fund	SWYGX
State Street Institutional Investment Trust: State Street Target Retirement 2040 Fund; Class K Shares	SSCQX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement 2040 Fund	TRRDX
T Rowe Price Retirement Funds, Inc: T Rowe Price Target 2040 Fund; Class I Shares	TRXRX
TIAA-CREF Funds: Nuveen Lifecycle 2040 Fund; Class R6 Shares	TCOIX
TIAA-CREF Funds: Nuveen Lifecycle Index 2040 Fund; Class R6 Shares	TLZIX
Vanguard Chester Funds: Vanguard Target Retirement 2040 Fund; Investor Class Shares	VFORX
Victory Portfolios III: Victory Target Retirement 2040 Fund	URFRX

## Lipper Mixed-Asset Target 2045 Index

American Century Asset Allocation Portfolios, Inc: One Choice 2045 Portfolio; Investor Class Shares	AROIX
American Funds Target Date Retirement Series: American Funds 2045 Target Date Retirement Fund; Class R6 Shs	RFHTX
BlackRock Funds III: BlackRock LifePath Index 2045 Fund; Class K Shares	LIHKX
DFA Investment Dimensions Group Inc: Dimensional 2045 Target Date Retirement Income Fund; Institutional CI S	DRIIX
Empower Funds, Inc: Empower Lifetime 2045 Fund; Service Class Shares	MXRLX
Fidelity Aberdeen Street Trust: Fidelity Advisor Freedom 2045 Fund; Class A Shares	FFFZX
Fidelity Aberdeen Street Trust: Fidelity Freedom 2045 Fund	FFFGX
Fidelity Aberdeen Street Trust: Fidelity Freedom Blend 2045 Fund; Class K6 Shares	FHFDX
Fidelity Aberdeen Street Trust: Fidelity Freedom Index 2045 Fund; Institutional Premium Class Share	FFOLX
GuideStone Funds: MyDestination 2045 Fund; Investor Class Shares	GMFZX
John Hancock Funds II: 2045 Lifetime Blend Portfolio; Class 1 Shares	JRLQX
John Hancock Funds II: Multimanager 2045 Lifetime Portfolio; Class 1 Shares	JLJOX
JPMorgan Trust I: JPMorgan SmartRetirement 2045 Fund; Class R5 Shares	JSAIX
JPMorgan Trust I: JPMorgan SmartRetirement Blend 2045 Fund; Class R6 Shares	JMYAX
MassMutual Select Funds: MassMutual Select T Rowe Price Retirement 2045 Fund; Class I Shares	MMFTX
MFS Series Trust XII: MFS Lifetime 2045 Fund; Class R6 Shares	LTMLX
MoA Funds: MoA Clear Passage 2045 Fund	MURMX
PIMCO Equity Series: PIMCO RealPath Blend 2045 Fund; Institutional Class Shares	PVQNX
Principal Funds, Inc: Principal LifeTime 2045 Fund; Institutional Class Shares	LTRIX
Principal Funds, Inc: Principal LifeTime Hybrid 2045 Fund; Class R-6 Shares	PLNTX
Putnam Target Date Funds: Putnam Sustainable Retirement 2045 Fund; Class Y Shares	PRVYX
Schwab Capital Trust: Schwab Target 2045 Fund	SWMRX
Schwab Capital Trust: Schwab Target 2045 Index Fund	SWYHX
State Street Institutional Investment Trust: State Street Target Retirement 2045 Fund; Class K Shares	SSDEX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement 2045 Fund	TRRKX
T Rowe Price Retirement Funds, Inc: T Rowe Price Target 2045 Fund	RPTFX
TIAA-CREF Funds: Nuveen Lifecycle 2045 Fund; Class R6 Shares	TTFIX
TIAA-CREF Funds: Nuveen Lifecycle Index 2045 Fund; Class R6 Shares	TLXIX
Vanguard Chester Funds: Vanguard Target Retirement 2045 Fund; Investor Class Shares	VTIVX
Voya Separate Portfolios Trust: Voya Target Retirement 2045 Fund; Class R6 Shares	VTRNX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Mixed-Asset Target 2050 Index**

American Century Asset Allocation Portfolios, Inc: One Choice 2050 Portfolio; Class I Shares	ARFSX
American Funds Target Date Retirement Series: American Funds 2050 Target Date Retirement Fund; Class A Shares	AALT
BlackRock Funds III: BlackRock LifePath Dynamic 2050 Fund; Investor A Shares	LPRFX
BlackRock Funds III: BlackRock LifePath Index 2050 Fund; Class K Shares	LIPKX
DFA Investment Dimensions Group Inc: Dimensional 2050 Target Date Retirement Income Fund; Institutional CI S	DRIJX
Empower Funds, Inc: Empower Lifetime 2050 Fund; Investor Class Shares	MXBOX
Fidelity Aberdeen Street Trust: Fidelity Advisor Freedom 2050 Fund; Class A Shares	FFFLX
Fidelity Aberdeen Street Trust: Fidelity Freedom 2050 Fund	FFFHX
Fidelity Aberdeen Street Trust: Fidelity Freedom Blend 2050 Fund; Class K6 Shares	FHEDX
Fidelity Aberdeen Street Trust: Fidelity Freedom Index 2050 Fund; Investor Class Shares	FIPFX
John Hancock Funds II: 2050 Lifetime Blend Portfolio; Class 1 Shares	JRLWX
John Hancock Funds II: Multimanager 2050 Lifetime Portfolio; Class 1 Shares	JLKOX
JPMorgan Trust I: JPMorgan SmartRetirement 2050 Fund; Class R5 Shares	JTSIX
JPMorgan Trust I: JPMorgan SmartRetirement Blend 2050 Fund; Class R6 Shares	JNYAX
MassMutual Select Funds: MassMutual Select T Rowe Price Retirement 2050 Fund; Class M5 Shares	MMDFX
MFS Series Trust XII: MFS Lifetime 2050 Fund; Class R6 Shares	MFFKX
MoA Funds: MoA Clear Passage 2050 Fund	MURNX
PIMCO Equity Series: PIMCO RealPath Blend 2050 Fund; Institutional Class Shares	PPQZX
Principal Funds, Inc: Principal LifeTime 2050 Fund; Institutional Class Shares	PPLIX
Principal Funds, Inc: Principal LifeTime Hybrid 2050 Fund; Class R-6 Shares	PLJTX
Putnam Target Date Funds: Putnam Sustainable Retirement 2050 Fund; Class Y Shares	PRRUX
Schwab Capital Trust: Schwab Target 2050 Fund	SWNRX
Schwab Capital Trust: Schwab Target 2050 Index Fund	SWYMX
State Street Institutional Investment Trust: State Street Target Retirement 2050 Fund; Class K Shares	SSDLX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement 2050 Fund	TRRMX
T Rowe Price Retirement Funds, Inc: T Rowe Price Target 2050 Fund	TRFOX
TIAA-CREF Funds: Nuveen Lifecycle 2050 Fund; Class R6 Shares	TFTIX
TIAA-CREF Funds: Nuveen Lifecycle Index 2050 Fund; Class R6 Shares	TLLIX
Vanguard Chester Funds: Vanguard Target Retirement 2050 Fund; Investor Class Shares	VFIFX
Victory Portfolios III: Victory Target Retirement 2050 Fund	URFFX

## Lipper Mixed-Asset Target 2055+ Index

American Century Asset Allocation Portfolios, Inc: One Choice 2055 Portfolio; Class I Shares	ARENX
American Funds Target Date Retirement Series: American Funds 2055 Target Date Retirement Fund; Class A Share	AAMTX
BlackRock Funds III: BlackRock LifePath Dynamic 2055 Fund; Class K Shares	LPVKX
BlackRock Funds III: BlackRock LifePath Index 2055 Fund; Class K Shares	LIVKX
DFA Investment Dimensions Group Inc: Dimensional 2055 Target Date Retirement Income Fund; Institutional CI S	DRIKX
Empower Funds, Inc: Empower Lifetime 2055 Fund; Service Class Shares	MXXLX
Fidelity Aberdeen Street Trust: Fidelity Advisor Freedom 2055 Fund; Class A Shares	FHFAX
Fidelity Aberdeen Street Trust: Fidelity Freedom 2055 Fund	FDEEX
Fidelity Aberdeen Street Trust: Fidelity Freedom Blend 2055 Fund; Class K6 Shares	FHDDX
Fidelity Aberdeen Street Trust: Fidelity Freedom Index 2055 Fund; Investor Class Shares	FDEWX
GuideStone Funds: MyDestination 2055 Fund; Investor Class Shares	GMGZX
John Hancock Funds II: 2055 Lifetime Blend Portfolio; Class 1 Shares	JLKZX
John Hancock Funds II: Multimanager 2055 Lifetime Portfolio; Class 1 Shares	JLKUX
JPMorgan Trust I: JPMorgan SmartRetirement 2055 Fund; Class R5 Shares	JFFIX
JPMorgan Trust I: JPMorgan SmartRetirement Blend 2055 Fund; Class R6 Shares	JTYBX
MassMutual Select Funds: MassMutual Select T Rowe Price Retirement 2055 Fund; Class I Shares	MMDJX
MFS Series Trust XII: MFS Lifetime 2055 Fund; Class R6 Shares	LFIKX
MoA Funds: MoA Clear Passage 2055 Fund	MUROX
PIMCO Equity Series: PIMCO RealPath Blend 2055 Fund; Institutional Class Shares	PRQZX
Principal Funds, Inc: Principal LifeTime 2055 Fund; Institutional Class Shares	LTFIX
Principal Funds, Inc: Principal LifeTime Hybrid 2055 Fund; Class R-6 Shares	PLHTX
Schwab Capital Trust: Schwab Target 2055 Fund	SWORX
Schwab Capital Trust: Schwab Target 2055 Index Fund	SWYJX
State Street Institutional Investment Trust: State Street Target Retirement 2055 Fund; Class K Shares	SSDQX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement 2055 Fund	TRRNX
T Rowe Price Retirement Funds, Inc: T Rowe Price Target 2055 Fund	TRFFX
TIAA-CREF Funds: Nuveen Lifecycle 2055 Fund; Class R6 Shares	TTRIX
TIAA-CREF Funds: Nuveen Lifecycle Index 2055 Fund; Class R6 Shares	TTIIX
Vanguard Chester Funds: Vanguard Target Retirement 2055 Fund; Investor Class Shares	VFFVX
Voya Separate Portfolios Trust: Voya Target Retirement 2055 Fund; Class R6 Shares	VTRRX

## Lipper Mixed-Asset Target 2060 Funds Index

American Century Asset Allocation Portfolios, Inc: One Choice 2060 Portfolio; Class R6 Shares	ARGDX
American Funds Target Date Retirement Series: American Funds 2060 Target Date Retirement Fund; Class R6 Shs	RFUTX
BlackRock Funds III: BlackRock LifePath Index 2060 Fund; Class K Shares	LIZKX
DFA Investment Dimensions Group Inc: Dimensional 2060 Target Date Retirement Income Fund; Institutional Cl S	DRILX
Empower Funds, Inc: Empower Lifetime 2060 Fund; Investor Class Shares	MXGNX
Fidelity Aberdeen Street Trust: Fidelity Advisor Freedom 2060 Fund; Class I Shares	FDKQX
Fidelity Aberdeen Street Trust: Fidelity Freedom 2060 Fund; Class K Shares	FNSFX
Fidelity Aberdeen Street Trust: Fidelity Freedom Blend 2060 Fund; Class K6 Shares	FHCDX
Fidelity Aberdeen Street Trust: Fidelity Freedom Index 2060 Fund; Institutional Premium Class Shares	FFLEX
John Hancock Funds II: 2060 Lifetime Blend Portfolio; Class 1 Shares	JRODX
John Hancock Funds II: Multimanager 2060 Lifetime Portfolio; Class 1 Shares	JRETX
JPMorgan Trust I: JPMorgan SmartRetirement 2060 Fund; Class R6 Shares	JAKYX
JPMorgan Trust I: JPMorgan SmartRetirement Blend 2060 Fund; Class R6 Shares	JAAYX
MassMutual Select Funds: MassMutual Select T Rowe Price Retirement 2060 Fund; Class I Shares	MMSKX
MFS Series Trust XII: MFS Lifetime 2060 Fund; Class R6 Shares	MFJKX
MoA Funds: MoA Clear Passage 2060 Fund	MURPX
PIMCO Equity Series: PIMCO RealPath Blend 2060 Fund; Institutional Class Shares	PRBMX
Principal Funds, Inc: Principal LifeTime 2060 Fund; Institutional Class Shares	PLTZX
Principal Funds, Inc: Principal LifeTime Hybrid 2060 Fund; Class R-6 Shares	PLKTX
Schwab Capital Trust: Schwab Target 2060 Fund	SWPRX
Schwab Capital Trust: Schwab Target 2060 Index Fund	SWYNX
State Street Institutional Investment Trust: State Street Target Retirement 2060 Fund; Class K Shares	SSDYX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement 2060 Fund	TRRLX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement Blend 2060 Fund; Class I Shares	TBLNX
T Rowe Price Retirement Funds, Inc: T Rowe Price Target 2060 Fund	TRTFX
TIAA-CREF Funds: Nuveen Lifecycle 2060 Fund; Class R6 Shares	TLXNX
TIAA-CREF Funds: Nuveen Lifecycle Index 2060 Fund; Class R6 Shares	TVIIX
Vanguard Chester Funds: Vanguard Target Retirement 2060 Fund; Investor Class Shares	VTTSX
Victory Portfolios III: Victory Target Retirement 2060 Fund	URSIX
Voya Separate Portfolios Trust: Voya Target Retirement 2060 Fund; Class R6 Shares	VTRUX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Mixed-Asset Target Allocation Aggressive Growth Funds**

AB Portfolios: AB Wealth Appreciation Strategy; Advisor Class Shares	AWAYX
Allspring Funds Trust: Allspring Spectrum Aggressive Growth Fund; Class C Shares	WEACX
American Century Asset Allocation Portfolios, Inc: One Choice Portfolio: Very Aggressive; Investor Class Shs	AOVIX
Aristotle Funds Series Trust: Aristotle Portfolio Optimization Aggressive Growth Fund; Class A Shares	POEAX
BlackRock Funds II: BlackRock 80/20 Target Allocation Fund; Investor A Shares	BAAPX
Calvert Social Investment Fund: Calvert Growth Allocation Fund; Class A Shares	CAAAX
Dimensional Investment Group Inc: Global Equity Portfolio; Institutional Class Shares	DGEIX
Empower Funds, Inc: Empower Aggressive Profile Fund; Investor Class Shares	MXAPX
E-Valuator Funds Trust: The E-Valuator Aggressive Growth (85%-99%) RMS Fund; Service Class Shares	EVAGX
Fidelity Aberdeen Street Trust: Fidelity Multi-Asset Index Fund	FFNOX
Fidelity Charles Street Trust: Fidelity Asset Manager 85%	FAMRX
Franklin Fund Allocator Series: Franklin Corefolio Allocation Fund; Class A Shares	FTCOX
Goldman Sachs Trust: Goldman Sachs Dynamic Global Equity Fund; Class A Shares	GAPAX
GPS Funds II: GuidePath Growth Allocation Fund; Service Class Shares	GPSTX
GuideStone Funds: Aggressive Allocation Fund; Investor Class Shares	GGBZX
John Hancock Funds II: Lifestyle Blend Aggressive Portfolio; Class 1 Shares	JIIOX
John Hancock Funds II: Multimanager Lifestyle Aggressive Portfolio; Class 1 Shares	JILAX
JPMorgan Trust II: JPMorgan Investor Growth Fund; Class A Shares	ONGAX
Legg Mason Partners Investment Trust: Franklin Multi-Asset Growth Fund; Class A Shares	SCHAX
Meeder Funds: Meeder Dynamic Allocation Fund; Institutional Class Shares	DYGIX
MFS Series Trust X: MFS Aggressive Growth Allocation Fund; Class A Shares	MAAGX
MoA Funds: MoA Aggressive Allocation Fund	MAANX
Nationwide Mutual Funds: Nationwide Investor Destinations Aggressive Fund; Service Class Shares	NDASX
New York Life Investments Funds Trust: NYLI Equity Allocation Fund; Class A Shares	MGXAX
Principal Funds, Inc: SAM Strategic Growth Portfolio; Class A Shares	SACAX
Russell Investment Company: Equity Growth Strategy Fund; Class A Shares	REAAX
Thrivent Mutual Funds: Thrivent Aggressive Allocation Fund; Class A Shares	TAAAX
Transamerica Funds: Transamerica Asset Allocation - Growth Portfolio; Class A Shares	IAAAX
Transamerica Funds: Transamerica Asset Allocation Long Horizon; Class R Shares	TALRX
Ultimus Managers Trust: Blueprint Adaptive Growth Allocation Fund; Institutional Class Shares	BLUIX

---

**Lipper Mixed-Asset Target Allocation Conservative Funds Index**

AIM Growth Series (Invesco Growth Series): Invesco Income Allocation Fund; Class A Shares	ALAAX
AIM Investment Funds (Invesco Investment Funds): Invesco Multi-Asset Income Fund; Class A Shares	PIAFX
American Century Asset Allocation Portfolios, Inc: One Choice Portfolio: Very Conservative; Investor Class Shs	AONIX
Columbia Funds Series Trust II: Columbia Income Builder Fund; Class A Shares	RBBAX
Columbia Funds Series Trust: Columbia Capital Allocation Moderate Conservative Portfolio; Class A Shares	NLGAX
Dimensional Investment Group Inc: Global Allocation 25/75 Portfolio; Institutional Class Shares	DGTSX
Empower Funds, Inc: Empower Conservative Profile Fund; Investor Class Shares	MXCPX
Federated Hermes Income Securities Trust: Federated Hermes Capital Income Fund; Class A Shares	CAPAX
Federated Hermes Income Securities Trust: Federated Hermes Muni & Stock Advantage Fund; Class A Shares	FMUAX
Fidelity Charles Street Trust: Fidelity Asset Manager 20%	FASIX
Fidelity Charles Street Trust: Fidelity Asset Manager 30%	FTANX
Fidelity Charles Street Trust: Fidelity Asset Manager 40%	FFANX
Franklin Fund Allocator Series: Franklin Conservative Allocation Fund; Class A Shares	FTCIX
John Hancock Funds II: Multimanager Lifestyle Conservative Portfolio; Class 1 Shares	JILCX
JPMorgan Trust II: JPMorgan Investor Conservative Growth Fund; Class A Shares	OICAX
Lord Abbett Investment Trust: Lord Abbett Multi-Asset Income Fund; Class A Shares	ISFAX
MFS Series Trust X: MFS Conservative Allocation Fund; Class A Shares	MACFX
MFS Series Trust XIII: MFS Diversified Income Fund; Class A Shares	DIFAX
New York Life Investments Funds Trust: NYLI Conservative Allocation Fund; Class A Shares	MCKAX
Principal Funds, Inc: SAM Flexible Income Portfolio; Class A Shares	SAUPX
Putnam Asset Allocation Funds: Putnam Dynamic Asset Allocation Conservative Fund; Class A Shares	PACAX
T Rowe Price Spectrum Funds II, Inc: T Rowe Price Spectrum Conservative Allocation Fund	PRSIX
Thrivent Mutual Funds: Thrivent Diversified Income Plus Fund; Class A Shares	AAHYX
Thrivent Mutual Funds: Thrivent Moderately Conservative Allocation Fund; Class A Shares	TCAAX
Transamerica Funds: Transamerica Asset Allocation - Conservative Portfolio; Class A Shares	ICLAX
Ultimus Managers Trust: Westwood Income Opportunity Fund; Institutional Shares	WHGIX
Vanguard STAR Funds: Vanguard LifeStrategy Conservative Growth Fund; Investor Shares	VSCGX
Vanguard STAR Funds: Vanguard LifeStrategy Income Fund; Investor Shares	VASIX
Vanguard Wellesley Income Fund; Investor Class Shares	VWINX
Vanguard World Fund: Vanguard Global Wellesley Income Fund; Admiral Shares	VGYAX



**Lipper Mixed-Asset Target Allocation Growth Funds Index**

AIM Counselor Series Trust (Invesco Counselor Series Trust): Invesco Equity & Income Fund; Class A Shares	ACEIX
AIM Growth Series (Invesco Growth Series): Invesco Active Allocation Fund; Class A Shares	OAAAX
American Balanced Fund; Class A Shares	ABALX
American Century Asset Allocation Portfolios, Inc: One Choice Portfolio: Moderate; Investor Class Shares	AOMIX
American Funds Portfolio Series: American Funds Growth & Income Portfolio; Class A Shares	GAIOX
American Funds Portfolio Series: American Funds Moderate Growth and Income Portfolio; Class A Shares	BLPAX
Columbia Funds Series Trust I: Columbia Balanced Fund; Class A Shares	CBLAX
Dodge & Cox Funds: Dodge & Cox Balanced Fund; Class I Shares	DODBX
Fidelity Charles Street Trust: Fidelity Asset Manager 70%	FASGX
Fidelity Puritan Trust: Fidelity Balanced Fund	FBALX
Fidelity Puritan Trust: Fidelity Balanced K6 Fund	FBKFX
Fidelity Puritan Trust: Fidelity Puritan Fund	FPURX
Fidelity Puritan Trust: Fidelity Puritan K6 Fund	FPKFX
Fidelity Salem Street Trust: Fidelity Strategic Dividend & Income Fund	FSDIX
John Hancock Funds II: Multimanager Lifestyle Growth Portfolio; Class 1 Shares	JILGX
John Hancock Investment Trust: John Hancock Balanced Fund; Class A Shares	SVBAX
JPMorgan Trust II: JPMorgan Investor Growth & Income Fund; Class A Shares	ONGIX
MFS Series Trust X: MFS Growth Allocation Fund; Class A Shares	MAGWX
Principal Funds, Inc: SAM Balanced Portfolio; Class A Shares	SABPX
Principal Funds, Inc: SAM Conservative Growth Portfolio; Class A Shares	SAGPX
Putnam Asset Allocation Funds: Putnam Dynamic Asset Allocation Growth Fund; Class A Shares	PAEAX
T Rowe Price Balanced Fund, Inc	RPBAX
T Rowe Price Capital Appreciation Fund, Inc	PRWCX
Thrivent Mutual Funds: Thrivent Moderately Aggressive Allocation Fund; Class A Shares	TMAAX
Vanguard STAR Funds: Vanguard LifeStrategy Growth Fund; Investor Shares	VASGX
Vanguard STAR Funds: Vanguard LifeStrategy Moderate Growth Fund; Investor Shares	VSMGX
Vanguard STAR Funds: Vanguard STAR Fund; Investor Shares	VGSTX
Vanguard Valley Forge Funds: Vanguard Balanced Index Fund; Admiral Shares	VBIAX
Vanguard Wellington Fund; Admiral Shares	VWENX
Vanguard World Fund: Vanguard Global Wellington Fund; Admiral Shares	VGWAX

**Lipper Mixed-Asset Target Allocation Moderate Funds Index**

Advisers Investment Trust: State Farm Balanced Fund	STFBX
AIM Growth Series (Invesco Growth Series): Invesco Select Risk Moderate Investor Fund; Class A Shares	OAMIX
American Century Asset Allocation Portfolios, Inc: One Choice Portfolio: Conservative; Investor Class Shares	AOCIX
American Funds Portfolio Series: American Funds Conservative Growth and Income Portfolio; Class A Shares	INPAX
American Funds Portfolio Series: American Funds Tax-Aware Conservative Growth and Income P; Class A Shs	TAIAX
Columbia Funds Series Trust II: Columbia Capital Allocation Moderate Portfolio; Class A Shares	ABUAX
Dimensional Investment Group Inc: Global Allocation 60/40 Portfolio; Institutional Class Shares	DGSIX
Empower Funds, Inc: Empower Moderate Profile Fund; Investor Class Shares	MXMPX
Fidelity Charles Street Trust: Fidelity Asset Manager 50%	FASMX
Fidelity Charles Street Trust: Fidelity Asset Manager 60%	FSANX
Franklin Fund Allocator Series: Franklin Moderate Allocation Fund; Class A Shares	FMTIX
Franklin Investors Securities Trust: Franklin Managed Income Fund; Class A Shares	FBLAX
George Putnam Balanced Fund; Class A Shares	PGEOX
Goldman Sachs Trust: Goldman Sachs Income Builder Fund; Institutional Shares	GSBIX
Harris Associates Investment Trust: Oakmark Equity and Income Fund; Investor Class Shares	OAKBX
Hartford Mutual Funds, Inc: Hartford Balanced Income Fund; Class A Shares	HBLAX
Income Fund of America; Class A Shares	AMECX
Janus Investment Fund: Janus Henderson Balanced Fund; Class T Shares	JABAX
John Hancock Funds II: Multimanager Lifestyle Balanced Portfolio; Class 1 Shares	JILBX
John Hancock Funds II: Multimanager Lifestyle Moderate Portfolio; Class 1 Shares	JILMX
JPMorgan Trust II: JPMorgan Investor Balanced Fund; Class A Shares	OGIAX
Lord Abbett Investment Trust: Lord Abbett Multi-Asset Balanced Opportunity Fund; Class A Shares	LABFX
MFS Series Trust V: MFS Total Return Fund; Class A Shares	MSFRX
MFS Series Trust X: MFS Moderate Allocation Fund; Class A Shares	MAMAX
Putnam Asset Allocation Funds: Putnam Dynamic Asset Allocation Balanced Fund; Class A Shares	PABAX
T Rowe Price Spectrum Funds II, Inc: T Rowe Price Spectrum Moderate Allocation Fund	TRPBX
Thrivent Mutual Funds: Thrivent Moderate Allocation Fund; Class A Shares	THMAX
Vanguard Tax-Managed Funds: Vanguard Tax-Managed Balanced Fund; Admiral Shares	VTMFX
Victory Portfolios III: Victory Cornerstone Moderate Fund	USBSX
Victory Portfolios III: Victory Cornerstone Moderately Aggressive Fund	USCRX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Mixed-Asset Target Today Index**

American Century Asset Allocation Portfolios, Inc: One Choice In Retirement Portfolio; Investor Class Shares	ARTOX
BlackRock Funds III: BlackRock LifePath Index Retirement Fund; Class K Shares	LIRKX
Fidelity Aberdeen Street Trust: Fidelity Freedom Income Fund	FFFAX
Fidelity Aberdeen Street Trust: Fidelity Freedom Index Income Fund; Institutional Premium Class Shares	FFGZX
JPMorgan Trust I: JPMorgan SmartRetirement Blend Income Fund; Class R6 Shares	JYBX
State Street Institutional Investment Trust: State Street Target Retirement Fund; Class K Shares	SSFOX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement Balanced Fund	TRRIX
TIAA-CREF Funds: Nuveen Lifecycle Index Retirement Income Fund; Class R6 Shares	TRILX
Vanguard Chester Funds: Vanguard Target Retirement Income Fund; Investor Class Shares	VTINX
Victory Portfolios III: Victory Target Retirement Income Fund	URINX

**Lipper Multi-Cap Core Funds Index**

BlackRock Funds: iShares Total US Stock Market Index Fund; Class K Shares	BKTSX
Calvert Responsible Index Series, Inc: Calvert US Large-Cap Core Responsible Index Fund; Class I Shares	CISIX
Deutsche DWS Investment Trust: DWS Core Equity Fund; Class S Shares	SCDGX
DFA Investment Dimensions Group Inc: US Core Equity 1 Portfolio; Institutional Class Shares	DFEOX
DFA Investment Dimensions Group Inc: US Core Equity 2 Portfolio; Institutional Class Shares	DFQTX
DFA Investment Dimensions Group Inc: US Sustainability Core 1 Portfolio; Institutional Class Shares	DFSIX
Fidelity Capital Trust: Fidelity Advisor Stock Selector Fund; Class Z Shares	FZAPX
Fidelity Concord Street Trust: Fidelity Series Total Market Index Fund	FCFMX
Fidelity Concord Street Trust: Fidelity Total Market Index Fund	FSKAX
Fidelity Concord Street Trust: Fidelity ZERO Total Market Index Fund	FZROX
Fidelity Devonshire Trust: Fidelity Series All-Sector Equity Fund	FSAEX
Fidelity Rutland Square Trust II: Strategic Advisers Fidelity US Total Stock Fund	FCTDX
Hartford Mutual Funds, Inc: Hartford Capital Appreciation Fund; Class A Shares	ITHAX
Janus Investment Fund: Janus Henderson Contrarian Fund; Class D Shares	JACNX
MFS Series Trust I: MFS Core Equity Fund; Class A Shares	MRGAX
Old Westbury Funds, Inc: Old Westbury All Cap Core Fund	OWACX
PRIMECAP Odyssey Funds: PRIMECAP Odyssey Growth Fund	POGRX
Putnam Funds Trust: Putnam Core Equity Fund; Class A Shares	PMYAX
RBB Fund, Inc: Free Market US Equity Fund; Institutional Class Shares	FMUEX
Schwab Capital Trust: Schwab Total Stock Market Index Fund	SWTSX
SEI Institutional Managed Trust: Tax-Managed Large Cap Fund; Class F Shares	TMLCX
TIAA-CREF Funds: Nuveen Equity Index Fund; Class W Shares	TEQWX
TIAA-CREF Funds: Nuveen Large Cap Responsible Equity Fund; Class R6 Shares	TISCX
Trust for Professional Managers: Mairs & Power Growth Fund	MPGFX
Vanguard Fenway Funds: Vanguard PrimeCap Core Fund; Investor Shares	VPCCX
Vanguard Horizon Funds: Vanguard Capital Opportunity Fund; Admiral Shares	VHCAX
Vanguard Index Funds: Vanguard Total Stock Market Index Fund; Admiral Class Shares	VTSAX
Vanguard Institutional Index Fund: Vanguard Institutional Total Stock Market Index Fund; Institutional Plus	VITPX
Vanguard Tax-Managed Funds: Vanguard Tax-Managed Capital Appreciation Fund; Admiral Shares	VTCLX
Vanguard Trustees' Equity Fund: Vanguard Diversified Equity Fund; Investor Shares	VDEQX

**Lipper Multi-Cap Growth Funds Index**

AIM Equity Funds (Invesco Equity Funds): Invesco Summit Fund; Class P Shares	SMMIX
Allspring Funds Trust: Allspring Growth Fund; Class A Shares	SGRAX
Allspring Funds Trust: Allspring Premier Large Company Growth Fund; Class A Shares	EKJAX
AMCAP Fund; Class A Shares	AMCPX
American Century Mutual Funds, Inc: Heritage Fund; Investor Class Shares	TWHIX
Baron Select Funds: Baron Partners Fund; Retail Shares	BPTRX
Brown Advisory Funds: Brown Advisory Sustainable Growth Fund; Institutional Class Shares	BAFWX
Federated Hermes Equity Funds: Federated Hermes Kaufmann Fund; Class R Shares	KAUFX
Federated Hermes Equity Funds: Federated Hermes Kaufmann Large Cap Fund; Institutional Shares	KLCIX
Fidelity Advisor Series I: Fidelity Advisor Growth Opportunities Fund; Class I Shares	FAGCX
Fidelity Capital Trust: Fidelity Capital Appreciation Fund	FDCAX
Fidelity Hastings Street Trust: Fidelity Growth Discovery Fund	FDSVX
Fidelity Mt Vernon Street Trust: Fidelity Growth Strategies Fund	FDEGX
Fidelity Trend Fund	FTRNX
Franklin Custodian Funds: Franklin DynaTech Fund; Class A Shares	FKDNX
Franklin Custodian Funds: Franklin Growth Fund; Class A Shares	FKGRX
Franklin Strategic Series: Franklin Growth Opportunities Fund; Class A Shares	FGRAX
Hartford Mutual Funds II, Inc: Hartford Growth Opportunities Fund; Class A Shares	HGOAX
Legg Mason Partners Investment Trust: ClearBridge Growth Fund; Class A Shares	SHRAX
Legg Mason Partners Investment Trust: ClearBridge Select Fund; Class I Shares	LBFIX
Lord Abbett Securities Trust: Lord Abbett Growth Leaders Fund; Class I Shares	LGLIX
Morgan Stanley Institutional Fund, Inc: Growth Portfolio; Class A Shares	MSEGX
Mutual Fund Series Trust: Eventide Gilead Fund; Class I Shares	ETILX
Northern Lights Fund Trust III: HCM Tactical Growth Fund; Class A Shares	HCMGX
Pioneer Series Trust II: Pioneer Select Mid Cap Growth Fund; Class A Shares	PGOFX
PRIMECAP Odyssey Funds: PRIMECAP Odyssey Aggressive Growth Fund	POAGX
Principal Funds, Inc: MidCap Fund; Institutional Class Shares	PCBIX
Schwartz Investment Trust: Ave Maria Growth Fund	AVEGX
T Rowe Price All-Cap Opportunities Fund, Inc	PRWAX
Transamerica Funds: Transamerica Capital Growth; Class I Shares	TFOIX

---

**Lipper Multi-Cap Value Funds Index**

AIM Sector Funds (Invesco Sector Funds): Invesco Comstock Fund; Class A Shares	ACSTX
American Century Capital Portfolios, Inc: Focused Large Cap Value Fund; Class G Shares	ACFLX
AMG Funds: AMG Yacktman Focused Fund; Class I Shares	YAFIX
AMG Funds: AMG Yacktman Fund; Class I Shares	YACKX
BNY Mellon Advantage Funds, Inc: BNY Mellon Dynamic Value Fund; Class I Shares	DRGVX
Bridge Builder Trust: Bridge Builder Large Cap Value Fund	BBVLX
Delaware Group Equity Funds II: Macquarie Value Fund; Institutional Class Shares	DDVIX
DFA Investment Dimensions Group Inc: US Large Cap Value Portfolio; Institutional Class Shares	DFLVX
Diamond Hill Funds: Diamond Hill Large Cap Fund; Class I Shares	DHLRX
Dodge & Cox Funds: Dodge & Cox Stock Fund; Class I Shares	DODGX
Fidelity Devonshire Trust: Fidelity Series Stock Selector Large Cap Value Fund	FBLEX
Fidelity Devonshire Trust: Fidelity Series Value Discovery Fund	FNKLX
Fidelity Puritan Trust: Fidelity Value Discovery Fund	FVDFX
Fidelity Salem Street Trust: Fidelity Large Cap Value Index Fund	FLCOX
Fidelity Salem Street Trust: Fidelity Series Large Cap Value Index Fund	FIOOX
Fidelity Securities Fund: Fidelity Dividend Growth Fund	FDGFX
Franklin Mutual Series Funds: Franklin Mutual Shares Fund; Class Z Shares	MUTHX
Harris Associates Investment Trust: Oakmark Fund; Investor Class Shares	OAKMX
Harris Associates Investment Trust: Oakmark Select Fund; Advisor Class Shares	OAYLX
John Hancock Funds III: John Hancock Disciplined Value Fund; Class I Shares	JVLIX
JPMorgan Trust I: JPMorgan Value Advantage Fund; Class R6 Shares	JVAYX
Parnassus Funds: Parnassus Value Equity Fund; Investor Class Shares	PARWX
PRIMECAP Odyssey Funds: PRIMECAP Odyssey Stock Fund	POSKX
Principal Funds, Inc: LargeCap Value Fund III; Institutional Class Shares	PLVIX
Schwab Capital Trust: Schwab Fundamental U.S. Large Company Index Fund	SFLNX
Smead Funds Trust: Smead Value Fund; Class I1 Shares	SVFFX
T Rowe Price Equity Funds, Inc: T Rowe Price Large-Cap Value Fund; Class I Shares	TILCX
Thrivent Mutual Funds: Thrivent Large Cap Value Fund; Class S Shares	TLVIX
TIAA-CREF Funds: Nuveen Large Cap Value Index Fund; Class R6 Shares	TILVX
Vanguard Windsor Funds: Vanguard Windsor Fund; Admiral Shares	VWNEX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Retirement Income Funds Index**

American Funds Retirement Income Portfolio Series: American Funds Retirement Income Portfolio - Cnv; Class A	NAARX
American Funds Retirement Income Portfolio Series: American Funds Retirement Income Portfolio - Enh; Class A	NDARX
American Funds Retirement Income Portfolio Series: American Funds Retirement Income Portfolio - Mod; Class A	NBARX
Fidelity Income Fund: Fidelity Managed Retirement 2025 Fund	FIXRX
Fidelity Income Fund: Fidelity Simplicity RMD 2020 Fund	FIRWX
Fidelity Income Fund: Fidelity Simplicity RMD Income Fund	FIRNX
Franklin Fund Allocator Series: Franklin LifeSmart Retirement Income Fund; Class A Shares	FTRAX
Schwab Capital Trust: Schwab Monthly Income Fund -- Flexible Payout	SWKRX
Schwab Capital Trust: Schwab Monthly Income Fund -- Income Payout	SWLRX
Schwab Capital Trust: Schwab Monthly Income Fund -- Target Payout	SWJRX

**Index Name    Full Fund Name****Nasdaq Symbol****Lipper S&P 500 Index Funds Index**

AIM Counselor Series Trust (Invesco Counselor Series Trust): Invesco S&P 500 Index Fund; Class A Shares	SPIAX
BlackRock Funds III: iShares S&P 500 Index Fund; Class K Shares	WFSPX
BNY Mellon Index Funds, Inc: BNY Mellon S&P 500 Index Fund	PEOPX
BNY Mellon Investment Funds IV, Inc: BNY Mellon Institutional S&P 500 Stock Index Fund; Class I Shares	DSPIX
Catholic Responsible Investments Funds: Catholic Responsible Investments Equity Index Fund; Institutional	CRQSX
Columbia Funds Series Trust: Columbia Large Cap Index Fund; Institutional Class Shares	NINDX
Deutsche DWS Institutional Funds: DWS S&P 500 Index Fund; Class S Shares	SCPIX
Dimensional Investment Group Inc: US Large Company Portfolio; Institutional Class Shares	DFUSX
Empower Funds, Inc: Empower S&P 500 Index Fund; Investor Class Shares	MXVIX
Fidelity Concord Street Trust: Fidelity 500 Index Fund	FXAIX
Fidelity Concord Street Trust: Fidelity Flex 500 Index Fund	FDFIX
Fidelity Salem Street Trust: Fidelity SAI US Large Cap Index Fund	FLCPX
GuideStone Funds: Equity Index Fund; Investor Class Shares	GEQZX
JPMorgan Trust II: JPMorgan Equity Index Fund; Class I Shares	HLEIX
MassMutual Select Funds: MM S&P 500 Index Fund; Class I Shares	MMIZX
MoA Funds: MoA Equity Index Fund	MAEIX
Nationwide Mutual Funds: Nationwide S&P 500 Index Fund; Institutional Service Class Shares	GRISX
New York Life Investments Funds Trust: NYLI S&P 500 Index Fund; Class A Shares	MSXAX
Northern Funds: Stock Index Fund	NOSIX
Principal Funds, Inc: LargeCap S&P 500 Index Fund; Institutional Class Shares	PLFIX
Schwab Capital Trust: Schwab S&P 500 Index Fund	SWPPX
SEI Institutional Investments Trust: S&P 500 Index Fund; Class A Shares	SPINX
SEI Institutional Managed Trust: S&P 500 Index Fund; Class F Shares	SSPIX
SSgA Funds: State Street S&P 500 Index Fund; Class N Shares	SVSPX
State Street Institutional Investment Trust: State Street Equity 500 Index II Portfolio	SSEYX
T Rowe Price Index Trust, Inc: T Rowe Price Equity Index 500 Fund	PREIX
TIAA-CREF Funds: Nuveen S&P 500 Index Fund; Class R6 Shares	TISPX
Vanguard Index Funds: Vanguard 500 Index Fund; Admiral Shares	VFIAX
Vanguard Institutional Index Fund: Vanguard Institutional Index Fund; Institutional Shares	VINIX
Victory Portfolios III: Victory 500 Index Fund; Member Shares	USSPX



**Index Name    Full Fund Name****Nasdaq Symbol****Lipper Small-Cap Core Funds Index**

Allspring Funds Trust: Allspring Special Small Cap Value Fund; Institutional Class Shares	ESPNX
American Beacon Funds: American Beacon Small Cap Value Fund; Class R5 Shares	AVFIX
American Century Capital Portfolios, Inc: Small Cap Value Fund; Class I Shares	ACVIX
BlackRock Funds: BlackRock Advantage Small Cap Core Fund; Institutional Class Shares	BDSIX
BlackRock Index Funds, Inc: iShares Russell 2000 Small-Cap Index Fund; Class K Shares	BDBKX
Calvert Impact Fund, Inc: Calvert Small Cap Fund; Class I Shares	CSVIX
Capitol Series Trust: FullerThaler Behavioral Small-Cap Equity Fund; Institutional Class Shares	FTHSX
Columbia Funds Series Trust I: Columbia Multi-Manager Small Cap Equity Strategies Fund; Institutional CI Shs	CZMSX
Delaware Group Equity Funds V: Macquarie Small Cap Core Fund; Institutional Class Shares	DCCIX
Delaware Group Equity Funds V: Macquarie Small Cap Value Fund; Institutional Class Shares	DEVIX
DFA Investment Dimensions Group Inc: US Micro Cap Portfolio; Institutional Class Shares	DFSCX
DFA Investment Dimensions Group Inc: US Small Cap Portfolio; Institutional Class Shares	DFSTX
Fidelity Concord Street Trust: Fidelity Small Cap Discovery Fund	FSCRX
Fidelity Salem Street Trust: Fidelity Small Cap Index Fund	FSSNX
Fidelity Securities Fund: Fidelity Small Cap Value Fund	FCPVX
JPMorgan Trust I: JPMorgan Small Cap Equity Fund; Class I Shares	VSEIX
Mercer Funds: Mercer US Small/Mid Cap Equity Fund; Class Y-3 Shares	MSCGX
MFS Series Trust XIII: MFS New Discovery Value Fund; Class R6 Shares	NDVXX
Schwab Capital Trust: Schwab Fundamental U.S. Small Company Index Fund	SFSNX
Schwab Capital Trust: Schwab Small-Cap Index Fund	SWSSX
State Street Institutional Investment Trust: State Street Small/Mid Cap Equity Index Portfolio	SSMHX
T Rowe Price Small-Cap Value Fund, Inc	PRSVX
Thrivent Mutual Funds: Thrivent Small Cap Stock Fund; Class S Shares	TSCSX
TIAA-CREF Funds: Nuveen Quant Small Cap Equity Fund; Class R6 Shares	TISEX
TIAA-CREF Funds: Nuveen Small Cap Blend Index Fund; Class R6 Shares	TISBX
Vanguard Admiral Funds: Vanguard S&P Small-Cap 600 Index Fund; Institutional Shares	VSMSX
Vanguard Index Funds: Vanguard Small-Cap Index Fund; Admiral Shares	VSMAX
Vanguard Index Funds: Vanguard Small-Cap Value Index Fund; Admiral Class Shares	VSIAX
Vanguard Tax-Managed Funds: Vanguard Tax-Managed Small-Cap Fund;Admiral Shares	VTMSX
Victory Portfolios: Victory Sycamore Small Company Opportunity Fund; Class I Shares	VSOIX

**Lipper Small-Cap Growth Funds Index**

AB Cap Fund, Inc: AB Small Cap Growth Portfolio; Advisor Class Shares	QUAYX
Advisors' Inner Circle Fund II: Champlain Small Company Fund; Institutional Shares	CIPNX
AIM Counselor Series Trust (Invesco Counselor Series Trust): Invesco Discovery Fund; Class A Shs	OPOCX
Baron Investment Funds Trust: Baron Small Cap Fund; Institutional Class Shares	BSFIX
Brown Advisory Funds: Brown Advisory Small-Cap Growth Fund; Institutional Class Shares	BAFSX
Conestoga Funds: Conestoga Small Cap Fund; Institutional Class Shares	CCALX
Federated Hermes Equity Funds: Federated Hermes Kaufmann Small Cap Fund; Institutional Class Shares	FKAIX
Fidelity Capital Trust: Fidelity Stock Selector Small Cap Fund	FDSCX
Fidelity Salem Street Trust: Fidelity SAI Small-Mid Cap 500 Index Fund	FZFLX
Fidelity Securities Fund: Fidelity Series Small Cap Opportunities Fund	FSOPX
Fidelity Securities Fund: Fidelity Small Cap Growth Fund	FCPGX
Fidelity Securities Fund: Fidelity Small Cap Growth K6 Fund	FOCSX
Franklin Strategic Series: Franklin Small Cap Growth Fund; Class R6 Shares	FSMLX
Janus Investment Fund: Janus Henderson Triton Fund; Class N Shares	JGMNX
Janus Investment Fund: Janus Henderson Venture Fund; Class D Shares	JANVX
JPMorgan Trust II: JPMorgan Small Cap Growth Fund; Class R6 Shares	JGSMX
Legg Mason Partners Investment Trust: ClearBridge Small Cap Growth Fund; Class IS Shares	LMOIX
Neuberger Berman Equity Funds: Neuberger Berman Genesis Fund; Class R6 Shares	NRGSX
Principal Funds, Inc: SmallCap Growth Fund I; Class R-6 Shares	PCSMX
SEI Institutional Investments Trust: Extended Market Index Fund; Class A Shares	SMXAX
T Rowe Price Institutional Equity Funds, Inc: T Rowe Price Institutional Small-Cap Stock Fund	TRSSX
T Rowe Price Integrated Equity Funds, Inc: T Rowe Price Integrated US Sm-Cap Growth Eq Fd	PRDSX
T Rowe Price Small-Cap Stock Fund, Inc	OTCFX
Vanguard Explorer Fund; Admiral Shares	VEXRX
Vanguard Index Funds: Vanguard Small-Cap Growth Index Fund; Admiral Class Shares	VSGAX
Virtus Equity Trust: Virtus KAR Small-Cap Core Fund; Class I Shares	PKSFX
Virtus Equity Trust: Virtus KAR Small-Cap Growth Fund; Class I Shares	PXSGX
Wasatch Funds Trust: Wasatch Core Growth Fund; Investor Class Shares	WGROX
Wasatch Funds Trust: Wasatch Small Cap Growth Fund; Institutional Class Shares	WIAEX
William Blair Funds: Small-Mid Cap Growth Fund; Class I Shares	WSMDX

## Lipper Small-Cap Value Funds Index

Advisors' Inner Circle Fund: LSV Small Cap Value Fund; Institutional Class Shares	LSVQX
Aegis Funds: Aegis Value Fund; Class I Shares	AVALX
AIM Sector Funds (Invesco Sector Funds): Invesco Small Cap Value Fund; Class Y Shares	VSMIX
Bridgeway Funds, Inc: Bridgeway Omni Small-Cap Value Fund	BOSVX
Bridgeway Funds, Inc: Bridgeway Small-Cap Value Fund	BRSVX
Bridgeway Funds, Inc: Bridgeway Ultra-Small Company Market Fund	BRSIX
Columbia Funds Series Trust I: Columbia Small Cap Value Fund I; Institutional Class Shares	CSCZX
DFA Investment Dimensions Group Inc: US Small Cap Value Portfolio; Institutional Class Shares	DFSVX
DFA Investment Dimensions Group Inc: US Sustainability Targeted Value Portfolio; Institutional Class Shares	DAABX
DFA Investment Dimensions Group Inc: US Targeted Value Portfolio; Institutional Class Shares	DFVFX
Franklin Value Investors Trust: Franklin Mutual Small-Mid Cap Value Fund; Class A Shares	FRMCX
Franklin Value Investors Trust: Franklin Small Cap Value Fund; Class A Shares	FRVLX
Hotchkis & Wiley Funds: Hotchkis & Wiley Small Cap Diversified Value Fund; Class I Shares	HWVIX
Hotchkis & Wiley Funds: Hotchkis & Wiley Small Cap Value Fund; Class I Shares	HWSIX
Investment Managers Series Trust: Towle Value Fund	TDVFX
New Age Alpha Funds Trust: NAA SMid Cap Value Fund; Class A Shares	SEVAX
Northern Funds: Small Cap Value Fund	NOSGX
Nuveen Investment Funds, Inc: Nuveen Small Cap Value Fund; Class I Shares	FSCCX
PACE Select Advisors Trust: PACE Small/Medium Co Value Equity Investments; Class P Shares	PCSVX
PIMCO Equity Series: PIMCO RAE US Small Fund; Institutional Class Shares	PMJIX
PIMCO Funds: PIMCO RAE PLUS Small Fund; Institutional Class Shares	PCFIX
RBC Funds Trust: RBC Microcap Value Fund; Class I Shares	RMVIX
Royce Fund: Royce Small-Cap Special Equity Fund; Investment Class Shares	RYSEX
SEI Institutional Managed Trust: Small Cap Value Fund; Class F Shares	SESVX
Target Portfolio Trust: PGIM Quant Solutions Small-Cap Value Fund; Class Z Shares	TASVX
Undiscovered Managers Funds: Undiscovered Managers Behavioral Value Fund; Class R6 Shares	UBVFX
Unified Series Trust: Dean Small Cap Value Fund	DASCX
Valued Advisers Trust: Foundry Partners Small Cap Value Fund; Institutional Class Shares	DRISX
Vanguard Scottsdale Funds: Vanguard Russell 2000 Value Index Fund; Institutional Shares	VRTVX
Vericimetry Funds: Vericimetry US Small Cap Value Fund	VYSVX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Specialty Diversified Equity Funds Index**

Advisors Preferred Trust: Quantified Pattern Recognition Fund; Investor Class Shares	QSPMX
Advisors Preferred Trust: Quantified Tactical Sectors Fund; Investor Class Shares	QTSSX
Horizon Funds: Horizon Defined Risk Fund; Investor Class Shares	HNDRX
Investment Managers Series Trust II: AXS FTSE Venture Capital Return Tracker Fund; Class I Shares	LDVIX
Northern Lights Fund Trust III: Swan Defined Risk Fund; Class I Shares	SDRIX
PIMCO Funds: PIMCO StocksPLUS Long Duration Fund; Institutional Class Shares	PSLDX
Volumetric Fund, Inc	VOLMX

## Equity

## Lipper Absolute Return Funds Index

AIM Investment Funds (Invesco Investment Funds): Invesco Macro Allocation Strategy Fund; Class R6 Shares	GMSLX
ALPS Series Trust: Beacon Accelerated Return Strategy Fund; Institutional Class Shares	BARLX
ALPS Series Trust: Beacon Planned Return Strategy Fund; Institutional Class Shares	BPRLX
American Beacon Funds: American Beacon AHL TargetRisk Fund; Class Y Shares	AHTYX
AQR Funds: AQR Alternative Risk Premia Fund; Class R6 Shares	QRPRX
AQR Funds: AQR Style Premia Alternative Fund; Class I Shares	QSPIX
BNY Mellon Advantage Funds, Inc: BNY Mellon Global Real Return Fund; Class Y Shares	DRRYX
Calamos Investment Trust: Calamos Hedged Equity Fund; Class I Shares	CIHEX
DoubleLine Funds Trust: DoubleLine Shiller Enhanced International CAPE; Class I Shares	DSEUX
FundVantage Trust: Gotham Absolute Return Fund; Institutional Class Shares	GARIX
Goldman Sachs Trust: Goldman Sachs Absolute Return Tracker Fund; Institutional Class Shares	GJRTX
GPS Funds II: GuidePath Absolute Return Allocation Fund; Service Class Shares	GPARX
Horizon Funds: Horizon Active Risk Assist Fund; Investor Class Shares	ARANX
John Hancock Funds II: Multi-Asset Absolute Return Fund; Class I Shares	JHAIX
Lazard Funds, Inc: Lazard Enhanced Opportunities Portfolio; Institutional Class Shares	LEOIX
Managed Portfolio Series: ATAC Rotation Fund; Institutional Class Shares	ATCIX
Mutual Fund and Variable Insurance Trust: Rational Tactical Return Fund; Institutional Class Shares	HRSTX
Natixis Funds Trust II: Loomis Sayles Strategic Alpha Fund; Class Y Shares	LASYX
Northern Lights Fund Trust III: RESQ Dynamic Allocation Fund; Class A Shares	RQEAX
Northern Lights Fund Trust III: RESQ Strategic Income Fund; Class A Shares	RQIAX
Northern Lights Fund Trust IV: Fulcrum Diversified Absolute Return Fund; Super Institutional Class Shares	FARYX
Payden & Rygel Investment Group: Payden Absolute Return Bond Fund; Investor Class Shares	PYARX
Payden & Rygel Investment Group: Payden Managed Income Fund; SI Class Shares	PKBIX
Putnam Funds Trust: Putnam Mortgage Opportunities Fund; Class I Shares	PMOTX
Ultimus Managers Trust: Westwood Broadmark Tactical Growth Fund; Institutional Class Shares	FTGWX
Ultimus Managers Trust: Westwood Broadmark Tactical Plus Fund; Class F Shares	BTPIX
Unified Series Trust: Absolute CEF Opportunities; Institutional Shares	ACEFX
Unified Series Trust: Absolute Flexible Fund; Institutional Class Shares	FLXIX
Unified Series Trust: Standpoint Multi-Asset Fund; Institutional Class Shares	BLNDX
WP Trust: IPS Strategic Capital Absolute Return Fund; Institutional Class Shares	IPSAX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Alternative Equity Market Neutral Funds Index**

AQR Funds: AQR Equity Market Neutral Fund; Class I Shares	QMNIX
Calamos Investment Trust: Calamos Market Neutral Income Fund; Class A Shares	CVSIX
Fidelity Greenwood Street Trust: Fidelity SAI Convertible Arbitrage Fund	FSAWX
Gateway Trust: Gateway Fund; Class A Shares	GATEX
JPMorgan Trust I: JPMorgan Research Market Neutral Fund; Class I Shares	JMNSX
PIMCO Funds: PIMCO RAE Fundamental Advantage PLUS Fund; Institutional Class Shares	PFATX
Ultimus Managers Trust: Westwood Alternative Income Fund; Institutional Class Shares	WMNIX
Unified Series Trust: Absolute Convertible Arbitrage Fund; Institutional Class Shares	ARBIX
Vanguard Montgomery Funds: Vanguard Market Neutral Fund; Investor Shs	VMNFX
Victory Portfolios II: Victory Market Neutral Income Fund; Class I Shares	CBHIX

**Lipper Alternative Multi-Strategy Funds Index**

Advisors' Inner Circle Fund III: FS Multi-Strategy Alternatives Fund; Class I Shares	FSMSX
AIM Investment Funds (Invesco Investment Funds): Invesco Fundamental Alternatives Fund; Cls A Shs	QVOPX
AQR Funds: AQR Diversifying Strategies Fund; Class I Shares	QDSIX
Aspiriant Trust: Aspiriant Defensive Allocation Fund	RMDFX
BlackRock Funds IV: BlackRock Systematic Multi-Strategy Fund; Institutional Class Shares	BIMBX
Blackstone Alternative Investment Funds: Blackstone Alternative Multi-Strategy Fund; Class I Shares	BXMIX
Brinker Capital Destinations Trust: Destinations Multi Strategy Alternatives Fund; Class I Shares	DMSFX
Columbia Funds Series Trust I: Columbia Multi Strategy Alternatives Fund; Institutional Class Shares	CLAZX
Columbia Funds Series Trust I: Columbia Multi-Manager Alternative Strategies Fund; Institutional Class Shares	CZAMX
Columbia Funds Series Trust I: Multi-Manager Directional Alternatives Strategies Fund; Institutional Cl Shs	CDAZX
Fidelity Rutland Square Trust II: Strategic Advisers Alternatives Fund	FSLTX
Franklin Alternative Strategies Funds: K2 Alternative Strategies Fund; Advisor Class Shares	FABZX
GMO Trust: GMO Alternative Allocation Fund; Class I Shares	GAAGX
GuideStone Funds: Strategic Alternatives Fund; Institutional Class Shares	GFSYX
Investment Managers Series Trust III: Manteio Multialternative Strategy Fund; Class I Shares	CSQIX
John Hancock Funds II: Alternative Asset Allocation Fund; Class I Shares	JAAIX
John Hancock Investment Trust: John Hancock Diversified Macro Fund; Class I Shares	JDJIX
Litman Gregory Funds Trust: iMGP Alternative Strategies Fund; Institutional Class Shares	MASFX
Morgan Stanley Pathway Funds: Alternative Strategies Fund	TALTX
Morningstar Funds Trust: Morningstar Alternatives Fund; Institutional Class Shares	MSTVX
Neuberger Berman Alternative Funds: Neuberger Berman Absolute Return Multi-Manager Fund; Instl Class Shares	NABIX
Northern Lights Fund Trust: Grant Park Multi Alternative Strategies Fund; Class I Shares	GPAIX
PACE Select Advisors Trust: PACE Alternative Strategies Investments; Class P Shares	PASPX
PFS Funds: Potomac Risk Defensive Bull Fund	CRDBX
Principal Funds, Inc: Global Multi-Strategy Fund; Institutional Class Shares	PSMIX
RBB Fund, Inc: Abbey Capital Multi Asset Fund; Class I Shares	MAFIX
SEI Institutional Managed Trust: Multi-Strategy Alternative Fund; Class F Shares	SMSAX
T Rowe Price Multi-Strategy Total Return Fund, Inc; Class I Shares	TMSSX
Virtus Alternative Solutions Trust: Virtus AlphaSimplex Global Alternatives Fund; Class I Shares	GAFYX
Wilmington Funds: Wilmington Global Alpha Equities Fund; Class I Shares	WRAIX

---

**Lipper Balanced Funds Index**

Advisers Investment Trust: State Farm Balanced Fund	STFBX
AIM Growth Series (Invesco Growth Series): Invesco Select Risk Moderate Investor Fund; Class A Shares	OAMIX
American Balanced Fund; Class A Shares	ABALX
American Century Mutual Funds, Inc: Balanced Fund; Investor Class Shares	TWBIX
Columbia Funds Series Trust II: Columbia Capital Allocation Moderate Portfolio; Class A Shares	ABUAX
Dimensional Investment Group Inc: Global Allocation 60/40 Portfolio; Institutional Class Shares	DGSIX
Fidelity Charles Street Trust: Fidelity Asset Manager 50%	FASMX
Fidelity Charles Street Trust: Fidelity Asset Manager 60%	FSANX
Franklin Fund Allocator Series: Franklin Moderate Allocation Fund; Class A Shares	FMTIX
Franklin Investors Securities Trust: Franklin Managed Income Fund; Class A Shares	FBLAX
George Putnam Balanced Fund; Class A Shares	PGEOX
Goldman Sachs Trust: Goldman Sachs Income Builder Fund; Institutional Shares	GSBIX
GuideStone Funds: Balanced Allocation Fund; Investor Class Shares	GGIZX
Harris Associates Investment Trust: Oakmark Equity and Income Fund; Investor Class Shares	OAKBX
Hartford Mutual Funds, Inc: Hartford Balanced Income Fund; Class I Shares	HBLIX
Janus Investment Fund: Janus Henderson Balanced Fund; Class T Shares	JABAX
John Hancock Funds II: Lifestyle Blend Balanced Portfolio; Class 1 Shares	JIBOX
John Hancock Funds II: Multimanager Lifestyle Balanced Portfolio; Class 1 Shares	JILBX
JPMorgan Trust II: JPMorgan Investor Balanced Fund; Class A Shares	OGIAX
Lord Abbett Investment Trust: Lord Abbett Multi-Asset Balanced Opportunity Fund; Class A Shares	LABFX
MFS Series Trust V: MFS Total Return Fund; Class A Shares	MSFRX
MFS Series Trust X: MFS Moderate Allocation Fund; Class A Shares	MAMAX
Principal Funds, Inc: SAM Conservative Balanced Portfolio; Class J Shares	PCBJX
Putnam Asset Allocation Funds: Putnam Dynamic Asset Allocation Balanced Fund; Class A Shares	PABAX
T Rowe Price Balanced Fund, Inc	RPBAX
Thrivent Mutual Funds: Thrivent Moderate Allocation Fund; Class A Shares	THMAX
TIAA-CREF Funds: Nuveen Managed Allocation Fund; Class A Shares	TIMRX
Transamerica Funds: Transamerica Asset Allocation - Moderate Portfolio; Class A Shares	IMOAX
Vanguard Tax-Managed Funds: Vanguard Tax-Managed Balanced Fund; Admiral Shares	VTMFX
Victory Portfolios III: Victory Cornerstone Moderate Fund	USBSX



**Lipper China Region Funds Index**

AB Cap Fund, Inc: AB All China Equity Portfolio; Advisor Class Shares	ACEYX
AIM Investment Funds (Invesco Investment Funds): Invesco Greater China Fund; Class A Shares	AACFX
AMG Funds I: AMG Veritas China Fund; Class N Shares	MMCFX
Eaton Vance Growth Trust: Eaton Vance Greater China Growth Fund; Class A Shares	EVCGX
Fidelity Investment Trust: Fidelity China Region Fund	FHKCX
Guinness Atkinson Funds: China & Hong Kong Fund	ICHKX
Matthews Asia Funds: Matthews China Dividend Fund; Investor Class Shares	MCDFX
Matthews Asia Funds: Matthews China Fund; Investor Class Shares	MCHFX
Matthews Asia Funds: Matthews China Small Companies Fund; Investor Class Shares	MCSMX
Oberweis Funds: Oberweis China Opportunities Fund; Investor Class Shares	OBCHX

**Lipper Commodities General Funds Index**

Credit Suisse Commodity Return Strategy Fund; Institutional Class Shares	CRSOX
Deutsche DWS Securities Trust: DWS Enhanced Commodity Strategy Fund; Institutional Class Shares	SKIRX
DFA Investment Dimensions Group Inc: DFA Commodity Strategy Portfolio	DCMSX
Eaton Vance Mutual Funds Trust: Parametric Commodity Strategy Fund; Class I Shares	EIPCX
Fidelity Oxford Street Trust: Fidelity SAI Inflation-Focused Fund	FIFGX
Fidelity Oxford Street Trust: Fidelity Series Commodity Strategy Fund	FCSSX
Financial Investors Trust: ALPS/CoreCommodity Management CompleteCommodities Strategy Fund; Class I Share	JCRIX
PIMCO Funds: PIMCO CommoditiesPLUS Strategy Fund; Institutional Class Shares	PCLIX
PIMCO Funds: PIMCO CommodityRealReturn Strategy Fund; Institutional Class Shares	PCRIX
Vanguard Trustees' Equity Fund: Vanguard Commodity Strategy Fund; Admiral Class Shares	VCMDX

**Lipper Consumer Services Funds Index**

Fidelity Advisor Series VII: Fidelity Advisor Consumer Discretionary Fund; Class A Shares	FCNAX
Fidelity Select Portfolios: Communication Services Portfolio	FBMPX
Fidelity Select Portfolios: Consumer Discretionary Portfolio	FSCPX
Fidelity Select Portfolios: Leisure Portfolio	FDLSX
Fidelity Select Portfolios: Retailing Portfolio	FSRPX
Rydex Series Funds: Leisure Fund; Investor Class Shares	RYLIX
Rydex Series Funds: Retailing Fund; Investor Class Shares	RYRIX
US Global Investors Funds: Global Luxury Goods Fund	USLUX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Convertible Securities Funds Index**

AIM Growth Series (Invesco Growth Series): Invesco Convertible Securities Fund; Class A Shares	CNSAX
Calamos Investment Trust: Calamos Convertible Fund; Class I Shares	CICVX
Columbia Funds Series Trust: Columbia Convertible Securities Fund; Institutional Class Shares	NCIAX
Fidelity Financial Trust: Fidelity Convertible Securities Fund	FCV SX
Franklin Investors Securities Trust: Franklin Convertible Securities Fund; Advisor Class Shares	FCSZX
Lord Abbett Investment Trust: Lord Abbett Convertible Fund; Class I Shares	LCFYX
Miller Investment Trust: Miller Convertible Bond Fund; Class I Shares	MCIFX
New York Life Investments Funds: NYLI MacKay Convertible Fund; Class A Shares	MCOAX
Putnam Convertible Securities Fund; Class A Shares	PCONX
Virtus Strategy Trust: Virtus Convertible Fund; Institutional Class Shares	ANNPX

---

**Lipper Emerging Market Funds Index**

Advisors' Inner Circle Fund III: GQG Partners Emerging Markets Equity Fund; Institutional Class Shares	GQGIX
AIM Investment Funds (Invesco Investment Funds): Invesco Developing Markets Fund; Class Y Shares	ODVYX
Allspring Funds Trust: Allspring Emerging Markets Equity Fund; Institutional Class Shares	EMGNX
Baron Select Funds: Baron Emerging Markets Fund; Institutional Class Shares	BEXIX
BlackRock Emerging Markets Fund, Inc.; Institutional Shares	MADCX
Delaware Group Global & International Funds: Macquarie Emerging Markets Fund; Institutional Class Shares	DEMIX
DFA Investment Dimensions Group Inc: Emerging Markets Core Equity Portfolio; Institutional Class Shares	DFCEX
DFA Investment Dimensions Group Inc: Emerging Markets Portfolio; Institutional Class Shares	DFEMX
DFA Investment Dimensions Group Inc: Emerging Markets Small Cap Portfolio; Institutional Class Shares	DEMSX
DFA Investment Dimensions Group Inc: Emerging Markets Value Portfolio; Institutional Class Shares	DFEVX
Fidelity Advisor Series VIII: Fidelity Advisor Focused Emerging Markets Fund; Class I Shares	FIMKX
Fidelity Investment Trust: Fidelity Emerging Markets Fund	FEMKX
Fidelity Investment Trust: Fidelity Series Emerging Markets Fund	FHKFX
Fidelity Investment Trust: Fidelity Series Emerging Markets Opportunities Fund	FEMSX
Fidelity Rutland Square Trust II: Strategic Advisers Emerging Markets Fund	FSAMX
Fidelity Rutland Square Trust II: Strategic Advisers Fidelity Emerging Markets Fund	FGOMX
Fidelity Salem Street Trust: Fidelity Emerging Markets Index Fund	FPADX
Fidelity Salem Street Trust: Fidelity SAI Emerging Markets Index Fund	FERGX
Fidelity Salem Street Trust: Fidelity SAI Emerging Markets Low Volatility Index Fund	FGKPX
Fidelity Salem Street Trust: Fidelity SAI Emerging Markets Value Index Fund	FEMVX
Financial Investors Trust: Seafarer Overseas Growth and Income Fund; Institutional Class Shares	SIGIX
JPMorgan Trust I: JPMorgan Emerging Markets Equity Fund; Class R6 Shares	JEMWX
Lazard Funds, Inc: Lazard Emerging Markets Equity Portfolio; Institutional Shares	LZEMX
MFS Series Trust X: MFS Emerging Markets Equity Fund; Class R6 Shares	MEMJX
New World Fund, Inc; Class A Shares	NEWFX
Principal Funds, Inc: Origin Emerging Markets Fund; Class R-6 Shares	
RBC Funds Trust: RBC Emerging Markets Equity Fund; Class I Shares	REEIX
T Rowe Price International Funds, Inc: T Rowe Price Emerging Markets Discovery Stock Fd; Class Z Shares	TRFZX
T Rowe Price International Funds, Inc: T Rowe Price Emerging Markets Stock Fund; Class Z Shares	TRGZX
TIAA-CREF Funds: Nuveen Emerging Markets Equity Index Fund; Class W Shares	TENWX

**Index Name    Full Fund Name****Nasdaq Symbol****Lipper Energy MLP Funds Index**

AIM Investment Funds (Invesco Investment Funds): Invesco SteelPath MLP Income Fund; Class A Shs	MLPDX
AIM Investment Funds (Invesco Investment Funds): Invesco SteelPath MLP Select 40 Fund; Cls Y Shs	MLPTX
Brookfield Investment Funds: Center Coast Brookfield Midstream Focus Fund; Class I Shares	CCCNX
Goldman Sachs Trust: Goldman Sachs MLP Energy Infrastructure Fund; Class P Shares	GMNPX
MainGate Trust: MainGate MLP Fund; Class I Shares	IMLPX
Managed Portfolio Series: Tortoise Energy Infrastructure and Income Fund; Institutional Class Shares	INFIX
Managed Portfolio Series: Tortoise Energy Infrastructure Total Return Fund; Institutional Class Shares	TORIX
Prudential Investment Portfolios 18: PGIM Jennison Energy Infrastructure Fund; Class Z Shares	PRPZX
Two Roads Shared Trust: Recurrent MLP & Infrastructure Fund; Class I Shares	RMLPX
Ultimus Managers Trust: Westwood Salient MLP & Energy Infrastructure Fund; Institutional Class Shares	SMLPX

**Lipper European Funds Index**

AIM Funds Group (Invesco Funds Group): Invesco EQV European Small Company Fund; Class A Shares	ESMAX
AIM International Mutual Funds (Invesco International Mutual Funds): Invesco EQV European Eqty Fd; Cl A Shs	AEDAX
Brown Advisory Funds: Brown Advisory-WMC Strategic European Equity Fund; Institutional Class Shares	BAFHX
DFA Investment Dimensions Group Inc: Continental Small Company Portfolio; Institutional Class Shares	DFCSX
Fidelity Investment Trust: Fidelity Europe Fund	FIEUX
Fidelity Investment Trust: Fidelity Nordic Fund	FNORX
Janus Investment Fund: Janus Henderson European Focus Fund; Class I Shares	HFEIX
JPMorgan Trust I: JPMorgan Europe Dynamic Fund; Class R6 Shares	VEUVX
Morgan Stanley Europe Opportunity Fund Inc; Class A Shares	EUGAX
T Rowe Price International Funds, Inc: T Rowe Price European Stock Fund	PRESX

**Lipper Financial Services Funds Index**

Davis Series, Inc: Davis Financial Fund; Class A Shares	RPFGX
Fidelity Advisor Series VII: Fidelity Advisor Financials Fund; Class A Shares	FAFDX
Fidelity Select Portfolios: Banking Portfolio	FSRBX
Fidelity Select Portfolios: Brokerage and Investment Management Portfolio	FSLBX
Fidelity Select Portfolios: Financials Portfolio	FIDSX
Fidelity Select Portfolios: Insurance Portfolio	FSPCX
John Hancock Investment Trust II: John Hancock Financial Industries Fund; Class A Shares	FIDAX
John Hancock Investment Trust II: John Hancock Regional Bank Fund; Class A Shares	FRBAX
RMB Investors Trust: RMB Mendon Financial Services Fund; Class I Shares	RMBLX
T Rowe Price Financial Services Fund, Inc	PRISX

**Lipper Flexible Portfolio Funds Index**

Advisors' Inner Circle Fund: CIBC Atlas Income Opportunities Fund; Institutional Class Shares	AWIIX
American Funds Global Balanced Fund; Class R6 Shares	RGBGX
BlackRock Funds II: BlackRock Dynamic High Income Portfolio; Institutional Shares	BDHIX
BlackRock Funds II: BlackRock Multi-Asset Income Portfolio; Institutional Shares	BIICX
BlackRock Global Allocation Fund, Inc.; Investor A Shares	MDLOX
Calamos Investment Trust: Calamos Growth & Income Fund; Class A Shares	CVTRX
Columbia Acorn Trust: Columbia Thermostat Fund; Institutional Class Shares	COTZX
Columbia Funds Series Trust II: Columbia Flexible Capital Income Fund; Institutional Class Shares	CFIZX
Delaware Group Equity Funds V: Macquarie Wealth Builder Fund; Class A Shares	DDIAX
Fairholme Funds, Inc: Fairholme Fund	FAIRX
Fidelity School Street Trust: Fidelity Multi-Asset Income Fund	FMSDX
First Eagle Funds: First Eagle Global Fund; Class I Shares	SGIIX
First Eagle Funds: First Eagle Global Income Builder Fund; Class I Shares	FEBIX
Franklin Custodian Funds: Franklin Income Fund; Class A1 Shares	FKINX
Franklin Fund Allocator Series: Franklin Global Allocation Fund; Class A Shares	FFALX
Franklin Mutual Series Funds: Franklin Mutual Quest Fund; Class Z Shares	MQIFX
Goldman Sachs Trust: Goldman Sachs Tactical Tilt Overlay Fund; Class P Shares	GSLPX
GuideStone Funds: Defensive Market Strategies Fund; Institutional Class Shares	GDMYX
Horizon Funds: Horizon Active Asset Allocation Fund; Investor Class Shares	AAANX
Investment Managers Series Trust III: FPA Crescent Fund; Institutional Class Shares	FPACX
JPMorgan Trust I: JPMorgan Global Allocation Fund; Class I Shares	GAOSX
JPMorgan Trust I: JPMorgan Income Builder Fund; Class A Shares	JNBAX
Loomis Sayles Funds II: Loomis Sayles Global Allocation Fund; Class Y Shares	LSWWX
Managed Portfolio Series: Kensington Dynamic Growth Fund; Institutional Class Shares	KAGIX
New York Life Investments Funds: NYLI Income Builder Fund; Class A Shares	MTRAX
PIMCO Funds: PIMCO Inflation Response Multi-Asset Fund; Institutional Class Shares	PIRMX
Pioneer Series Trust IV: Pioneer Multi-Asset Income Fund; Class Y Shares	PMFYX
SEI Institutional Managed Trust: Multi-Asset Accumulation Fund; Class F Shares	SAAAX
Two Roads Shared Trust: Wealthfront Risk Parity Fund; Class W Shares	WFRPX
Virtus Investment Trust: Virtus Income & Growth Fund; Class A Shares	AZNAX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Global Equity Income Funds Index**

BlackRock Funds II: BlackRock Global Dividend Portfolio; Institutional Shares	BIBDX
BNY Mellon Investment Funds III: BNY Mellon Global Equity Income Fund; Class I Shares	DQEIX
Brinker Capital Destinations Trust: Destinations Equity Income Fund; Class I Shares	DGEFX
Capital Income Builder; Class A Shares	CAIBX
Eaton Vance Mutual Funds Trust: Eaton Vance Global Equity Income Fund; Class A Shares	EADIX
Janus Investment Fund: Janus Henderson Global Equity Income Fund; Class I Shares	HFQIX
Morningstar Funds Trust: Morningstar Global Income Fund; Institutional Class Shares	MSTGX
Prudential Investment Portfolios, Inc 10: PGIM Jennison Global Equity Income Fund; Class A Shares	SPQAX
Steward Funds, Inc: Steward Global Equity Income Fund; Institutional Class Shares	SGISX
Thornburg Investment Trust: Thornburg Investment Income Builder Fund; Class I Shares	TIBIX

## Lipper Global Funds Index

AB Cap Fund, Inc: AB Global Core Equity Portfolio; Advisor Class Shares	GCEYX
Advisors' Inner Circle Fund III: GQG Partners Global Quality Equity Fund; Institutional Class Shares	GQRIX
AIM International Mutual Funds (Invesco International Mutual Funds): Invesco Global Fund; Cls A Shs	OPPAX
American Funds Global Insight Fund; Class R-6 Shares	RGLGX
American Funds Portfolio Series: American Funds Global Growth Portfolio; Class A Shares	PGGAX
American Funds Portfolio Series: American Funds Growth Portfolio; Class A Shares	GWPAX
Artisan Partners Funds, Inc: Artisan Global Value Fund; Institutional Shares	APHGX
Capital Income Builder; Class A Shares	CAIBX
Capital World Growth & Income Fund; Class A Shares	CWGIX
Dodge & Cox Funds: Dodge & Cox Global Stock Fund; Class I Shares	DODWX
Fidelity Investment Trust: Fidelity Worldwide Fund	FWWFX
Franklin Mutual Series Funds: Franklin Mutual Beacon Fund; Class Z Shares	BEGRX
Franklin Mutual Series Funds: Franklin Mutual Global Discovery Fund; Class A Shares	TEDIX
Goldman Sachs Trust: Goldman Sachs Tax-Advantaged Global Equity Portfolio; Class P Shares	GSKPX
Impax Funds Series Trust I: Impax Global Environmental Markets Fund; Institutional Class Shares	PGINX
Janus Investment Fund: Janus Henderson Global Equity Income Fund; Class I Shares	HFQIX
Janus Investment Fund: Janus Henderson Global Research Fund; Class D Shares	JANWX
Janus Investment Fund: Janus Henderson Global Select Fund; Class D Shares	JANRX
Morgan Stanley Institutional Fund, Inc: Global Franchise Portfolio; Class I Shares	MSFAX
New Economy Fund; Class A Shares	ANEFX
New Perspective Fund; Class A Shares	ANWPX
Old Westbury Funds, Inc: Old Westbury Large Cap Strategies Fund	OWLSX
Prudential World Fund, Inc: PGIM Jennison Global Opportunities Fund; Class Z Shares	PRJZX
SEI Institutional Investments Trust: Global Managed Volatility Fund; Class A Shares	SGMAX
T Rowe Price International Funds, Inc: T Rowe Price Global Stock Fund	PRGSX
Templeton Funds, Inc: Templeton World Fund; Class A Shares	TEMWX
Templeton Growth Fund, Inc; Class A Shares	TEPLX
Thornburg Investment Trust: Thornburg Investment Income Builder Fund; Class I Shares	TIBIX
Vanguard Horizon Funds: Vanguard Global Equity Fund; Investor Shares	VHGEX
Vanguard Whitehall Funds: Vanguard Global Minimum Volatility Fund; Admiral Class Shares	VMNVX

**Index Name    Full Fund Name****Nasdaq Symbol****Lipper Global Health/Biotechnology Funds Index**

AIM Investment Funds (Invesco Investment Funds): Invesco Health Care Fund; Investor Class Shares	GTHIX
Eaton Vance Growth Trust: Eaton Vance Worldwide Health Sciences Fund; Class A Shares	ETHSX
Fidelity Select Portfolios: Pharmaceuticals Portfolio	FPHAX
Fidelity Summer Street Trust: Fidelity Healthy Future Fund	FAPHX
Janus Investment Fund: Janus Henderson Global Life Sciences Fund; Class T Shares	JAGLX
Putnam Global Health Care Fund; Class A Shares	PHSTX
Vanguard Specialized Funds: Vanguard Health Care Fund; Investor Shares	VGHCX

**Lipper Global Infrastructure Funds Index**

Advisors' Inner Circle Fund III: Ecofin Global Renewables Infrastructure Fund; Institutional Class Shares	ECOIX
Brookfield Investment Funds: Brookfield Global Listed Infrastructure Fund; Class I Shares	BGLYX
Cohen & Steers Global Infrastructure Fund, Inc; Class I Shares	CSUIX
Deutsche DWS Global/International Fund, Inc: DWS RREEF Global Infrastructure Fund; Institutional Class Shares	TOLIX
Frontier Funds, Inc: Frontier MFG Core Infrastructure Fund; Institutional Class Shares	FMGIX
John Hancock Investment Trust: John Hancock Infrastructure Fund; Class I Shares	JEEIX
Lazard Funds, Inc: Lazard Global Listed Infrastructure Portfolio; Institutional Shares	GLIFX
New York Life Investments Funds Trust: NYLI CBRE Global Infrastructure Fund; Class I Shares	VCRIX
Northern Funds: Multi-Manager Global Listed Infrastructure Fund	NMFIK
Nuveen Investment Funds, Inc: Nuveen Global Infrastructure Fund; Class I Shares	FGIYX

**Lipper Global Large-Cap Core Funds Index**

AB Portfolios: AB Tax-Managed Wealth Appreciation Strategy; Advisor Class Shares	ATWYX
American Funds Global Insight Fund; Class R-6 Shares	RGLGX
Capital World Growth & Income Fund; Class A Shares	CWGIX
DFA Investment Dimensions Group Inc: World Core Equity Portfolio; Institutional Class Shares	DREIX
Janus Investment Fund: Janus Henderson Global Select Fund; Class D Shares	JANRX
Managed Account Series: BlackRock GA Dynamic Equity Fund; Institutional Class Shares	BIEEX
MFS Series Trust VI: MFS Global Equity Fund; Class I Shares	MWEIX
Morgan Stanley Institutional Fund, Inc: Global Franchise Portfolio; Class I Shares	MSFAX
Northern Funds: Global Sustainability Index Fund; Class K Shares	NSRKX
Perpetual Americas Funds Trust: Trillium ESG Global Equity Fund; Institutional Class Shares	PORIX



---

**Lipper Global Large-Cap Growth Funds Index**

AIM Funds Group (Invesco Funds Group): Invesco Global Core Equity Fund; Class A Shares	AWSAX
AIM International Mutual Funds (Invesco International Mutual Funds): Invesco Global Focus Fund; Class Y Sh	GLVYX
AIM International Mutual Funds (Invesco International Mutual Funds): Invesco Global Fund; Cls A Shs	OPPAX
American Beacon Funds: American Beacon Ninety One Global Franchise Fund; Class R5 Shares	ZGFIX
American Century World Mutual Funds, Inc: Focused Global Growth Fund; Investor Class Shares	TWGGX
American Funds Portfolio Series: American Funds Global Growth Portfolio; Class A Shares	PGGAX
Artisan Partners Funds, Inc: Artisan Global Opportunities Fund; Institutional Shares	APHRX
Baillie Gifford Funds: Baillie Gifford Long Term Global Growth Fund; Class K Shares	BGLKX
Baird Funds, Inc: Chautauqua Global Growth Fund; Institutional Class Shares	CCGIX
BlackRock Unconstrained Equity Fund; Investor A Shares	MDEGX
BNY Mellon Strategic Funds, Inc: BNY Mellon Global Stock Fund; Class I Shares	DGLRX
BNY Mellon Worldwide Growth Fund, Inc; Class A Shares	PGROX
Brown Advisory Funds: Brown Advisory Global Leaders Fund; Institutional Shares	BAFLX
Columbia Funds Series Trust II: Columbia Select Global Equity Fund; Class A Shares	IGLGX
First Trust Series Fund: First Trust WCM Focused Global Growth Fund; Institutional Class Shares	WCMGX
FundVantage Trust: Polen Global Growth Fund; Institutional Class Shares	PGIIX
GAMCO Global Series Funds, Inc: Gabelli Global Growth Fund; Class AAA Shares	GICPX
Guinness Atkinson Funds: Global Innovators Fund; Investor Class Shares	IWIRX
Harding, Loevner Funds, Inc: Global Equity Portfolio; Institutional Class Shares	HLMVX
Impax Funds Series Trust I: Impax Global Opportunities Fund; Institutional Class Shares	PXGOX
Lazard Funds, Inc: Lazard Global Equity Select Portfolio; Institutional Class Shares	GESIX
Marsico Investment Fund: Marsico Global Fund; Investor Class Shares	MGLBX
MFS Series Trust VIII: MFS Global Growth Fund; Class A Shares	MWOFX
Morgan Stanley Institutional Fund, Inc: Global Concentrated Portfolio; Class I Shares	MLNIX
Morgan Stanley Institutional Fund, Inc: Global Opportunity Portfolio; Class I Shares	MGGIX
Natixis Funds Trust I: Mirova Global Sustainable Equity Fund; Class Y Shares	ESGYX
Neuberger Berman Equity Funds: Neuberger Berman Focus Fund; Investor Class	NBSSX
New Perspective Fund; Class A Shares	ANWPX
Old Westbury Funds, Inc: Old Westbury Large Cap Strategies Fund	OWLSX
Prudential World Fund, Inc: PGIM Jennison Global Opportunities Fund; Class Z Shares	PRJZX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Global Large-Cap Value Index**

AB Cap Fund, Inc: AB Global Core Equity Portfolio; Advisor Class Shares	GCEYX
Artisan Partners Funds, Inc: Artisan Global Value Fund; Institutional Shares	APHGX
Dodge & Cox Funds: Dodge & Cox Global Stock Fund; Class I Shares	DODWX
Franklin Mutual Series Funds: Franklin Mutual Beacon Fund; Class Z Shares	BEGRX
Harris Associates Investment Trust: Oakmark Global Select Fund; Investor Class Shares	OAKWX
John Hancock Funds III: John Hancock Global Shareholder Yield Fund; Class I Shares	JGYIX
New York Life Investments Funds Trust: NYLI Epoch Global Equity Yield Fund; Class I Shares	EPSYX
Russell Investment Company: Global Equity Fund; Class S Shares	RGESX
Thornburg Investment Trust: Thornburg Global Opportunities Fund; Class I Shares	THOIX
Vanguard Specialized Funds: Vanguard Global ESG Select Stock Fund; Admiral Shares	VESGX

## Lipper Global Multi-Cap Core Funds Index

Adviser Managed Trust: Diversified Equity Fund	DAACX
Aristotle Funds Series Trust: Aristotle Value Equity Fund; Class I-2 Shares	AIQXX
Aristotle Funds Series Trust: Aristotle/Saul Global Equity Fund; Class I-2 Shares	AIOOX
Aspiriant Trust: Aspiriant Risk-Managed Equity Allocation Fund; Advisor Class Shares	RMEAX
DFA Investment Dimensions Group Inc: DFA Selectively Hedged Global Equity Portfolio; Institutional Class Shs	DSHGX
Eaton Vance Growth Trust: Eaton Vance Richard Bernstein Equity Strategy Fund; Class I Shares	ERBIX
GMO Trust: GMO Global Developed Equity Allocation Fund; Class III Shares	GWOAX
GMO Trust: GMO Global Equity Allocation Fund; Class III Shares	GMGEX
Goldman Sachs Trust: Goldman Sachs Enhanced Dividend Global Equity Portfolio; Class P Shares	GAFPX
Goldman Sachs Trust: Goldman Sachs Tax-Advantaged Global Equity Portfolio; Class P Shares	GSKPX
Hartford Mutual Funds, Inc: Hartford Global Impact Fund; Class A Shares	HGXAX
Impax Funds Series Trust I: Impax Global Environmental Markets Fund; Institutional Class Shares	PGINX
Impax Funds Series Trust III: Impax Ellevest Global Women's Leadership Fund; Institutional Class Shares	PXWIX
Legg Mason Partners Investment Trust: Franklin Global Equity Fund; Class A Shares	CFIPX
Mercer Funds: Mercer Global Low Volatility Equity Fund; Class Y-3 Shares	MGLVX
Nationwide Mutual Funds: Nationwide Global Sustainable Equity Fund; Class A Shares	GGEAX
Northern Lights Fund Trust: PFG BR Target Allocation Equity Strategy Fund; Class R Shares	PFESX
Saturna Investment Trust: Saturna Sustainable Equity Fund	SEEFX
Schwartz Investment Trust: Ave Maria World Equity Fund	AVEWX
Segall Bryant & Hamill Trust: Segall Bryant & Hamill Global All Cap Fund; Retail Class Shares	WTMVX
Shelton Funds: Shelton Sustainable Equity Fund; Investor Shares Class	NEXTX
Symmetry Panoramic Trust: Symmetry Panoramic Global Equity Fund; Class I Shares	SPGEX
Symmetry Panoramic Trust: Symmetry Panoramic Tax-Managed Global Equity Fund; Class I Shares	SPGTX
Thrivent Mutual Funds: Thrivent Global Stock Fund; Class A Shares	AALGX
UBS Funds: UBS Engage For Impact Fund; Class P2 Shares	EIPTX
Ultimus Managers Trust: Nia Impact Solutions Fund	NIAGX
Vanguard Horizon Funds: Vanguard Global Equity Fund; Investor Shares	VHGEX
Victory Portfolios III: Victory Capital Growth Fund; Fund Shares Class	USCGX
Victory Portfolios III: Victory Cornerstone Equity Fund	UCEQX
Victory Portfolios III: Victory Sustainable World Fund; Fund Shares Class	USAWX

---

**Lipper Global Multi-Cap Growth Funds Index**

AB Sustainable Global Thematic Fund, Inc; Advisor Class Shares	ATEYX
abrdn Funds: abrdn Global Equity Impact Fund; Class A Shares	JETAX
Advisors' Inner Circle Fund: Sands Capital Global Growth Fund; Institutional Class Shares	SCMGX
AIM Growth Series (Invesco Growth Series): Invesco Select Risk High Growth Investor Fund; Class A Shares	OAAIX
Alger Global Equity Fund; Class A Shares	CHUSX
American Funds Portfolio Series: American Funds Growth Portfolio; Class A Shares	GWPAX
Artisan Partners Funds, Inc: Artisan Global Discovery Fund; Institutional Shares	APHDX
Artisan Partners Funds, Inc: Artisan Global Equity Fund; Investor Shares	ARTHX
Baillie Gifford Funds: Baillie Gifford Global Alpha Equities Fund; Class K Shares	BGAKX
Baron Select Funds: Baron Global Advantage Fund; Institutional Class Shares	BGAIX
Baron Select Funds: Baron WealthBuilder Fund; Institutional Class Shares	BWBIX
EntrepreneurShares Series Trust: ERShares Global Entrepreneurs Fund; Institutional Class Shares	ENTIX
Fidelity Investment Trust: Fidelity Enduring Opportunities Fund	FEOPX
Fidelity Investment Trust: Fidelity Worldwide Fund	FWWFX
Fidelity Summer Street Trust: Fidelity Climate Action Fund	FCAEX
GuideStone Funds: Impact Equity Fund; Institutional Class Shares	GMEYX
Janus Investment Fund: Janus Henderson Global Sustainable Equity Fund; Class D Shares	JEDTX
John Hancock Investment Trust: John Hancock Global Environmental Opportunities Fund; Class R6 Shares	JACDX
John Hancock Investment Trust: John Hancock Global Thematic Opportunities Fund; Class NAV Shares	JTKNX
Morgan Stanley Institutional Fund, Inc: Global Insight Portfolio; Class I Shares	MIGIX
New Economy Fund; Class A Shares	ANEFX
New York Life Investments Funds Trust: NYLI Epoch Capital Growth Fund; Class I Shares	MECFX
Northern Lights Fund Trust: PFG Invesco Equity Factor Rotation Strategy Fund; Class R Shares	PFIOX
Perpetual Americas Funds Trust: JOHCM Global Select Fund; Institutional Shares	JOGIX
T Rowe Price International Funds, Inc: T Rowe Price Global Growth Stock Fund; Class I Shares	RGGIX
T Rowe Price International Funds, Inc: T Rowe Price Global Stock Fund	PRGSX
Vanguard Valley Forge Funds: Vanguard Baillie Gifford Global Positive Impact Stock Fund; Investor Shares	VBPIX
Victory Portfolios: Victory RS Global Fund; Class Y Shares	RGGYX
Virtus Strategy Trust: Virtus NFJ Global Sustainability Fund; Institutional Class Shares	
Wasatch Funds Trust: Wasatch Global Select Fund; Institutional Class Shares	WGGSX

**Lipper Global Multi-Cap Value Funds Index**

Advisors' Inner Circle Fund: LSV Global Value Fund; Institutional Class Shares	LSVGX
AQR Funds: AQR Global Equity Fund; Class R6 Shares	AQGRX
Causeway Capital Management Trust: Causeway Global Value Fund; Institutional Class Shares	CGVIX
Columbia Funds Series Trust II: Columbia Global Value Fund; Class A Shares	IEVAX
Davis New York Venture Fund, Inc: Davis Global Fund; Class Y Shares	DGFYX
Forum Funds: Polaris Global Value Fund	PGVFX
Franklin Mutual Series Funds: Franklin Mutual Global Discovery Fund; Class A Shares	TEDIX
Gallery Trust: Mondrian Global Equity Value Fund	MPGVX
Harris Associates Investment Trust: Oakmark Global Fund; Investor Class Shares	OAKGX
Lazard Funds, Inc: Lazard Equity Franchise Portfolio; Institutional Class Shares	LZFIX
Longleaf Partners Funds Trust: Longleaf Partners Global Fund	LLGLX
MFS Series Trust I: MFS Low Volatility Global Equity Fund; Class I Shares	MVGIX
Morningstar Funds Trust: Morningstar Global Opportunistic Equity Fund; Institutional Class Shares	MSTSX
Mutual Fund Series Trust: Catalyst/MAP Global Equity Fund; Class I Shares	CAXIX
Northern Lights Fund Trust: PFG American Funds Growth Strategy Fund; Class R Shares	PFGGX
Pioneer Series Trust V: Pioneer Global Sustainable Equity Fund; Class A Shares	GLOSX
RBB Fund, Inc: Boston Partners Global Equity Fund; Institutional Class Shares	BPGIX
SEI Institutional Investments Trust: Global Managed Volatility Fund; Class A Shares	SGMAX
SEI Institutional Investments Trust: World Select Equity Fund; Class A Shares	SWSAX
SEI Institutional Managed Trust: Global Managed Volatility Fund; Class F Shares	SVTAX
T Rowe Price Global Funds, Inc: T Rowe Price Global Value Equity Fund; Investor Class Shares	TRGVX
Templeton Funds, Inc: Templeton World Fund; Class A Shares	TEMWX
Templeton Growth Fund, Inc; Class A Shares	TEPLX
Tweedy, Browne Fund, Inc: Tweedy, Browne International Value Fund II - Currency Unhedged	TBCUX
Tweedy, Browne Fund, Inc: Tweedy, Browne Value Fund	TWEBX
Vanguard Specialized Funds: Vanguard Global Capital Cycles Fund; Investor Shares	VGPMX
Vanguard Whitehall Funds: Vanguard Advice Select Global Value Fund; Admiral Class Shares	VAGVX
Vanguard Whitehall Funds: Vanguard Global Minimum Volatility Fund; Admiral Class Shares	VMNVX
Voya Mutual Funds: Voya Global High Dividend Low Volatility Fund; Class A Shares	NAWGX
World Funds Trust: The Cook & Bynum Fund	COBYX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Global Natural Resources Funds Index**

BlackRock Funds: BlackRock Energy Opportunities Fund; Investor A Shares	BACAX
Fidelity Investment Trust: Fidelity Global Commodity Stock Fund	FFGCX
Franklin Strategic Series: Franklin Natural Resources Fund; Class A Shares	FRNRX
GMO Trust: GMO Resources Fund; Class IV Shares	GOVIX
Goehring & Rozencwajg Investment Funds: Goehring & Rozencwajg Resources Fund; Institutional Class Shares	GRHIX
PGIM Jennison Natural Resources Fund; Class Z Shares	PNRZX
T Rowe Price New Era Fund, Inc	PRNEX
VanEck Funds: Global Resources Fund; Class I Shares	GHAIX
Vanguard Specialized Funds: Vanguard Energy Fund; Admiral Shares	VGELX
Victory Portfolios: Victory Global Energy Transition Fund; Class Y Shares	RSNYX

---

**Lipper Global Real Estate Fund Index**

AB Global Real Estate Investment Fund, Inc; Class A Shares	AREAX
AB Institutional Funds, Inc: AB Global Real Estate Invest Fund II; Class I Share	ARIIX
AIM Counselor Series Trust (Invesco Counselor Series Trust): Invesco Global Real Estate Income Fd; Class A Shs	ASRAX
AIM Investment Securities Funds (Invesco Investment Securities Funds): Invesco Global Real Estate Fd; CI Y	ARGYX
American Century Capital Portfolios, Inc: Global Real Estate Fund; Class I Shares	ARYNX
BlackRock Funds: iShares Developed Real Estate Index Fund;Class K Shares	BKRDY
BNY Mellon Investment Funds V, Inc: BNY Mellon Developed Markets Real Estate Securities; Class Y Shares	DRLYX
Brookfield Investment Funds: Brookfield Global Listed Real Estate Fund; Class I Shares	BLRYX
Cohen & Steers Global Realty Shares, Inc; Class I Shares	CSSPX
Deutsche DWS Securities Trust: DWS RREEF Global Real Estate Securities Fund; Institutional Class Shares	RRGIX
DFA Investment Dimensions Group Inc: DFA Global Real Estate Securities Portfolio	DFGEX
Easterly Funds Trust: Easterly Global Real Estate Fund; Class A Shares	JAREX
Goldman Sachs Trust: Goldman Sachs Global Real Estate Securities Fund; Class R6 Shares	GARVX
GuideStone Funds: Global Real Estate Securities Fund; Investor Class Shares	GREZX
Janus Investment Fund: Janus Henderson Global Real Estate Fund; Class I Shares	JERIX
MFS Series Trust XIII: MFS Global Real Estate Fund; Class R6 Shares	MGLRX
Natixis Funds Trust IV: AEW Global Focused Real Estate Fund; Class Y Shares	NRIFYX
Northern Funds: Global Real Estate Index Fund	NGREX
Northern Funds: Multi-Manager Global Real Estate Fund	NMMGX
Nuveen Investment Trust V: Nuveen Global Real Estate Securities Fund; Class R6 Shares	NGJFX
PACE Select Advisors Trust: PACE Global Real Estate Securities Investments; Class P Shares	PREQX
Principal Funds, Inc: Global Real Estate Securities Fund; Institutional Class Shares	POSIX
Prudential Investment Portfolios 12: PGIM Global Real Estate Fund; Class Z Shares	PURZX
Prudential Investment Portfolios 9: PGIM Select Real Estate Fund; Class Z Shares	SREZX
Russell Investment Company: Global Real Estate Securities Fund; Class S Shares	RRESX
Schwab Capital Trust: Schwab Fundamental Global Real Estate Index Fund	SFREX
Schwab Investments: Schwab Global Real Estate Fund	SWASX
T Rowe Price Global Real Estate Fund, Inc	TRGRX
Third Avenue Trust: Third Avenue Real Estate Value Fund; Institutional Class Shares	TAREX
Virtus Opportunities Trust: Virtus Duff & Phelps Global Real Estate Securities Fund; Class I Shares	VGISX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Global Science & Technology Funds Index**

American Beacon Funds: American Beacon ARK Transformational Innovation Fund; Class R5 Shares	ADNIX
Baron Select Funds: Baron FinTech Fund; Institutional Class Shares	BFIIX
Baron Select Funds: Baron Technology Fund; Institutional Class Shares	BTECX
BlackRock Funds: BlackRock Technology Opportunities Fund; Investor A Shares	BGSAX
Columbia Funds Series Trust II: Columbia Seligman Global Technology Fund; Class A Shares	SHGTX
Janus Investment Fund: Janus Henderson Global Technology and Innovation Fund; Class T Shares	JAGTX
Putnam Funds Trust: Putnam Global Technology Fund; Class A Shares	PGTAX
T Rowe Price Global Technology Fund, Inc	PRGTX



## Lipper Global Small/Mid-Cap Funds Index

Advisors' Inner Circle Fund II: Kopernik Global All-Cap Fund; Class I Shares	KGGIX
AIM International Mutual Funds (Invesco International Mutual Funds): Invesco Global Oppty Fd; Cls A Sh	OPGIX
Allspring Funds Trust: Allspring Special Global Small Cap Fund; Class A Shares	EKGAX
ALPS Series Trust: Seven Canyons Strategic Global Fund; Investor Class Shares	WASIX
ALPS Series Trust: Seven Canyons World Innovators Fund; Investor Class Shares	WAGTX
American Century World Mutual Funds, Inc: Global Small Cap Fund; Investor Class Shares	AGCVX
American Pension Investors Trust: Yorktown Growth Fund; Class L Shares	APITX
AMG Funds: AMG Yacktman Special Opportunities Fund; Class Z Shares	YASLX
Deutsche DWS Global/International Fund, Inc: DWS Global Small Cap Fund; Class S Shares	SGSCX
DFA Investment Dimensions Group Inc: Global Small Company Portfolio; Institutional Class Shares	DGLIX
DFA Investment Dimensions Group Inc: Global Social Core Equity Portfolio; Institutional Class Shares	DGBEX
Federated Hermes Adviser Series: Federated Hermes SDG Engagement Equity Fund; Institutional Shares	FHESX
Fidelity Puritan Trust: Fidelity Series Intrinsic Opportunities Fund	FDMLX
Grandeur Peak Global Trust: Grandeur Peak Global Contrarian Fund; Institutional Class Shares	GPGCX
Grandeur Peak Global Trust: Grandeur Peak Global Micro Cap Fund; Institutional Class Shares	GPMCX
Grandeur Peak Global Trust: Grandeur Peak Global Opportunities Fund; Institutional Class Shares	GPGIX
Grandeur Peak Global Trust: Grandeur Peak Global Reach Fund; Institutional Class Shares	GPRIX
Grandeur Peak Global Trust: Grandeur Peak Global Stalwarts Fund; Institutional Class Shares	GGSYX
Kinetics Mutual Funds, Inc: Small Cap Opportunities Fund; No Load Class	KSCOX
MFS Series Trust IV: MFS Global New Discovery Fund; Class A Shares	GLNAX
Morgan Stanley Institutional Fund, Inc: Global Endurance Portfolio; Class I Shares	MSJIX
Mutual Fund Series Trust: AlphaCentric Robotics and Automation Fund; Class I Shares	GNXIX
Northern Lights Fund Trust IV: Moerus Worldwide Value Fund; Institutional Class Shares	MOWIX
Oberweis Funds: Oberweis Global Opportunities Fund; Investor Class Shares	OBEGX
Old Westbury Funds, Inc: Old Westbury Small & Mid Cap Strategies Fund	OWSMX
SMALLCAP World Fund, Inc; Class A Shares	SMCWX
Templeton Global Smaller Companies Fund; Class A Shares	TEMGX
Third Avenue Trust: Third Avenue Value Fund; Institutional Class Shares	TAVFX
Virtus Investment Trust: Virtus KAR Global Small-Cap Fund; Class A Shares	RGSAX
Wasatch Funds Trust: Wasatch Global Opportunities Fund; Investor Class Shares	WAGOX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Growth & Income Funds Index**

American Funds Fundamental Investors; Class A Shares	ANCFX
American Funds Target Date Retirement Series: American Funds 2030 Target Date Retirement Fund; Class R6 Shs	RFETX
American Funds Target Date Retirement Series: American Funds 2035 Target Date Retirement Fund; Class R6 Shs	RFFTX
American Funds Target Date Retirement Series: American Funds 2040 Target Date Retirement Fund; Class R6 Shs	RFGTX
American Mutual Fund; Class A Shares	AMRMX
Bridge Builder Trust: Bridge Builder Large Cap Growth Fund	BBGLX
DFA Investment Dimensions Group Inc: US Core Equity 1 Portfolio; Institutional Class Shares	DFOEX
DFA Investment Dimensions Group Inc: US Core Equity 2 Portfolio; Institutional Class Shares	DFQTX
Dodge & Cox Funds: Dodge & Cox Stock Fund; Class I Shares	DODGX
Fidelity Concord Street Trust: Fidelity Series Total Market Index Fund	FCFMX
Fidelity Concord Street Trust: Fidelity Total Market Index Fund	FSKAX
Fidelity Contrafund	FCNTX
Fidelity Contrafund K6 Fund	FLCNX
Fidelity Puritan Trust: Fidelity Balanced Fund	FBALX
Fidelity Puritan Trust: Fidelity Puritan Fund	FPURX
Fidelity Rutland Square Trust II: Strategic Advisers Fidelity US Total Stock Fund	FCTDX
Income Fund of America; Class A Shares	AMECX
Investment Company of America; Class A Shares	AIVSX
MFS Series Trust I: MFS Value Fund; Class I Shares	MEIIX
TIAA-CREF Funds: Nuveen Equity Index Fund; Class W Shares	TEQWX
Vanguard Chester Funds: Vanguard PRIMECAP Fund; Admiral Shares	VPMAX
Vanguard Chester Funds: Vanguard Target Retirement 2025 Fund; Investor Class Shares	VTTVX
Vanguard Chester Funds: Vanguard Target Retirement 2030 Fund; Investor Class Shares	VTHRX
Vanguard Chester Funds: Vanguard Target Retirement 2035 Fund; Investor Class Shares	VTTHX
Vanguard Chester Funds: Vanguard Target Retirement 2040 Fund; Investor Class Shares	VFORX
Vanguard Index Funds: Vanguard Total Stock Market Index Fund; Institutional Plus Class Shares	VSMPX
Vanguard Institutional Index Fund: Vanguard Institutional Total Stock Market Index Fund; Institutional Plus	VITPX
Vanguard Wellington Fund; Admiral Shares	VWENX
Vanguard Windsor Funds: Vanguard Windsor II Fund; Admiral Shares	VWNAX
Washington Mutual Investors Fund; Class A Shares	AWSHX

**Lipper Growth Funds Index**

Advisors' Inner Circle Fund: Edgewood Growth Fund; Institutional Class Shares	EGFIX
AMCAP Fund; Class A Shares	AMCPX
American Century Mutual Funds, Inc: Ultra Fund; Investor Class Shares	TWCUX
American Funds Target Date Retirement Series: American Funds 2045 Target Date Retirement Fund; Class R6 Shs	RFHTX
American Funds Target Date Retirement Series: American Funds 2050 Target Date Retirement Fund; Class R6 Shs	RFITX
American Funds Target Date Retirement Series: American Funds 2055 Target Date Retirement Fund; Class R6 Shs	RFKTX
Fidelity Concord Street Trust: Fidelity NASDAQ Composite Index Fund	FNCMX
Fidelity Magellan Fund	FMAGX
Fidelity Mt Vernon Street Trust: Fidelity Growth Company Fund	FDGRX
Fidelity Mt Vernon Street Trust: Fidelity Growth Company K6 Fund	FGKFX
Fidelity Mt Vernon Street Trust: Fidelity Series Growth Company Fund	FCGSX
Fidelity Salem Street Trust: Fidelity Large Cap Growth Index Fund	FSPGX
Fidelity Salem Street Trust: Fidelity SAI US Quality Index Fund	FUQIX
Fidelity Securities Fund: Fidelity Blue Chip Growth Fund	FBGRX
Fidelity Securities Fund: Fidelity OTC Portfolio	FOCPX
Growth Fund of America; Class A Shares	AGTHX
Harbor Funds: Harbor Capital Appreciation Fund; Institutional Class Shares	HACAX
Janus Investment Fund: Janus Henderson Research Fund; Class D Shares	JNRFX
JPMorgan Trust II: JPMorgan Large Cap Growth Fund; Class R6 Shares	JLGMX
MFS Series Trust II: MFS Growth Fund; Class R6 Shares	MFEKX
T Rowe Price Blue Chip Growth Fund, Inc	TRBCX
T Rowe Price Capital Appreciation Fund, Inc	PRWCX
T Rowe Price Equity Funds, Inc: T Rowe Price Large-Cap Growth Fund; Class I Shares	TRLGX
T Rowe Price Growth Stock Fund, Inc; Class Z Shares	TRJZX
Vanguard Chester Funds: Vanguard Target Retirement 2045 Fund; Investor Class Shares	VTIVX
Vanguard Chester Funds: Vanguard Target Retirement 2050 Fund; Investor Class Shares	VFIFX
Vanguard Chester Funds: Vanguard Target Retirement 2055 Fund; Investor Class Shares	VFFVX
Vanguard Chester Funds: Vanguard Target Retirement 2060 Fund; Investor Class Shares	VTTSX
Vanguard Valley Forge Funds: Vanguard Balanced Index Fund; Admiral Shares	VBIAX
Vanguard World Fund: Vanguard US Growth Fund; Admiral Shares	VWUAX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Health/Biotechnology Funds Index**

BlackRock Funds: BlackRock Health Sciences Opportunities Portfolio; Investor A Shares	SHSAX
Fidelity Advisor Series VII: Fidelity Advisor Health Care Fund; Class A Shares	FACDX
Fidelity Select Portfolios: Biotechnology Portfolio	FBIOX
Fidelity Select Portfolios: Health Care Portfolio	FSPHX
Fidelity Select Portfolios: Health Care Services Portfolio	FSHCX
Fidelity Select Portfolios: Medical Technology and Devices Portfolio	FSMEX
Mutual Fund Series Trust: Eventide Healthcare & Life Sciences Fund; Class I Shares	ETIHX
Prudential Sector Funds, Inc: PGIM Jennison Health Sciences Fund; Class Z Shares	PHSZX
Schwab Capital Trust: Schwab Health Care Fund	SWHFX
T Rowe Price Health Sciences Fund, Inc	PRHSX

---

**Lipper Income Funds Index**

American Funds Retirement Income Portfolio Series: American Funds Retirement Income Portfolio - Enh; Class A	NDARX
American Funds Target Date Retirement Series: American Funds 2010 Target Date Retirement Fund; Class R6 Shs	RFTTX
American Funds Target Date Retirement Series: American Funds 2015 Target Date Retirement Fund; Class R6 Shs	RFJTX
American Funds Target Date Retirement Series: American Funds 2020 Target Date Retirement Fund; Class R6 Shs	RRCTX
BlackRock Funds III: BlackRock LifePath Index Retirement Fund; Class K Shares	LIRKX
Empower Funds, Inc: Empower Conservative Profile Fund; Investor Class Shares	MXCPX
Fidelity Aberdeen Street Trust: Fidelity Freedom 2010 Fund	FFFCX
Fidelity Aberdeen Street Trust: Fidelity Freedom 2015 Fund	FFVFX
Fidelity Aberdeen Street Trust: Fidelity Freedom 2020 Fund	FFFDX
Fidelity Aberdeen Street Trust: Fidelity Freedom Income Fund	FFFAX
Fidelity Aberdeen Street Trust: Fidelity Freedom Index 2020 Fund; Institutional Premium Class Shares	FIWTX
Fidelity Charles Street Trust: Fidelity Asset Manager 20%	FASIX
Fidelity Charles Street Trust: Fidelity Asset Manager 30%	FTANX
Fidelity Charles Street Trust: Fidelity Asset Manager 40%	FFANX
JPMorgan Trust II: JPMorgan Investor Conservative Growth Fund; Class A Shares	OICAX
MFS Series Trust X: MFS Conservative Allocation Fund; Class A Shares	MACFX
MFS Series Trust XIII: MFS Diversified Income Fund; Class A Shares	DIFAX
Principal Funds, Inc: Principal LifeTime 2020 Fund; Institutional Class Shares	PLWIX
Principal Funds, Inc: SAM Flexible Income Portfolio; Class J Shares	PFIJX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement 2010 Fund	TRRAX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement 2015 Fund	TRRGX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement 2020 Fund	TRRBX
T Rowe Price Retirement Funds, Inc: T Rowe Price Retirement Balanced Fund	TRRIX
TIAA-CREF Funds: Nuveen Lifecycle 2020 Fund; Class R6 Shares	TCWIX
TIAA-CREF Funds: Nuveen Lifecycle Index 2020 Fund; Class R6 Shares	TLWIX
Vanguard Chester Funds: Vanguard Target Retirement 2020 Fund; Investor Class Shares	VTWNX
Vanguard Chester Funds: Vanguard Target Retirement Income Fund; Investor Class Shares	VTINX
Vanguard STAR Funds: Vanguard LifeStrategy Conservative Growth Fund; Investor Shares	VSCGX
Vanguard STAR Funds: Vanguard LifeStrategy Income Fund; Investor Shares	VASIX
Vanguard Wellesley Income Fund; Admiral Class Shares	VWIAX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Industrials Funds Index**

Advisors Series Trust: First Sentier American Listed Infrastructure Fund; Class I Shares	FLIAX
Fidelity Advisor Series VII: Fidelity Advisor Industrials Fund; Class A Shares	FCLAX
Fidelity Select Portfolios: Defense and Aerospace Portfolio	FSDAX
Fidelity Select Portfolios: Environment and Alternative Energy Fund	FSLEX
Fidelity Select Portfolios: Industrials Portfolio	FCYIX
Fidelity Select Portfolios: Transportation Portfolio	FSRFX
Fidelity Summer Street Trust: Fidelity Agricultural Productivity Fund	FARMX
Rydex Series Funds: Transportation Fund; Investor Class Shares	RYPIX
T Rowe Price International Funds, Inc: T Rowe Price Global Industrials Fund	RPGIX

**Lipper International Equity Income Fund Index**

Advisors' Inner Circle Fund III: GQG Partners International Quality Value Fund; Institutional Cl Shs	GQJIX
Columbia Funds Series Trust I: Columbia International Dividend Income Fund; Institutional Class Shares	CSVFX
Cullen Funds Trust: Cullen Emerging Markets High Dividend Fund; Class I Shares	CEMFx
Cullen Funds Trust: Cullen International High Dividend Fund; Class I Shares	CIHIX
Federated Hermes Equity Funds: Federated Hermes International Strategic Value Dividend Fund; Institutional Shs	IVFIX
Federated Hermes Managed Pool Series: Federated Hermes International Dividend Strategy Portfolio	FIDPX
Goldman Sachs Trust: Goldman Sachs International Equity Dividend and Premium Fund; Class R6 Shares	GIDUX
Goldman Sachs Trust: Goldman Sachs International Equity Income Fund; Institutional Class Shares	GSIKX
Investment Managers Series Trust: EuroPac International Dividend Income Fund; Class A Shares	EPDPX
Matthews Asia Funds: Matthews Asia Dividend Fund; Investor Class Shares	MAPIX

**Lipper International Funds Index**

Artisan Partners Funds, Inc: Artisan International Value Fund; Institutional Class Shares	APHKX
DFA Investment Dimensions Group Inc: International Core Equity Portfolio; Institutional Class Shares	DFIEX
Dimensional Investment Group Inc: DFA International Value Portfolio; Institutional Class Shares	DFIVX
Dodge & Cox Funds: Dodge & Cox International Stock Fund; Class I Shares	DODFX
EuroPacific Growth Fund; Class R6 Shares	RERGX
Fidelity Concord Street Trust: Fidelity International Index Fund	FSPSX
Fidelity Investment Trust: Fidelity Series International Growth Fund	FIGSX
Fidelity Investment Trust: Fidelity Series International Value Fund	FINVX
Fidelity Investment Trust: Fidelity Series Overseas Fund	FSOSX
Fidelity Rutland Square Trust II: Strategic Advisers Fidelity International Fund	FUSIX
Fidelity Rutland Square Trust II: Strategic Advisers International Fund	FILFX
Fidelity Salem Street Trust: Fidelity Global ex US Index Fund	FSGGX
Fidelity Salem Street Trust: Fidelity Series Global ex US Index Fund	FSGEX
Fidelity Salem Street Trust: Fidelity Total International Index Fund	FTIHX
First Eagle Funds: First Eagle Overseas Fund; Class I Shares	SGOIX
Goldman Sachs Trust II: Goldman Sachs GQG Partners International Opportunities Fund; Institutional Class Shs	GSIMX
Harding, Loevner Funds, Inc: International Equity Portfolio; Institutional Class Shares	HLMIX
Investment Managers Series Trust: WCM Focused International Growth Fund; Institutional Class Shares	WCMIX
MFS Series Trust I: MFS Research International Fund; Class R6 Shares	MRSKX
MFS Series Trust X: MFS International Diversification Fund; Class I Shares	MDIJX
MFS Series Trust X: MFS International Growth Fund; Class R6 Shares	MGRDX
MFS Series Trust X: MFS International Intrinsic Value Fund; Class R6 Shares	MINJX
MFS Series Trust XVII: MFS International Equity Fund; Class R6 Shares	MIEIX
T Rowe Price International Funds, Inc: T Rowe Price International Stock Fund; Class Z Shares	TRNZX
T Rowe Price International Funds, Inc: T Rowe Price International Value Equity Fund; Class Z Shares	TROZX
T Rowe Price International Funds, Inc: T Rowe Price Overseas Stock Fund; Class Z Shares	TRZSX
TIAA-CREF Funds: Nuveen International Equity Index Fund; Class R6 Shares	TCIEX
Vanguard STAR Funds: Vanguard Total International Stock Index Fund; Investor Shares	VGTSX
Vanguard Trustees' Equity Fund: Vanguard International Value Fund; Investor Shares	VTRIX
Vanguard World Fund: Vanguard International Growth Fund; Admiral Shares	VWILX

---

**Lipper International Large-Cap Core Funds Index**

BlackRock Funds III: iShares MSCI Total International Index Fund; Class K Shares	BDOKX
BlackRock Funds: BlackRock Advantage International Fund; Institutional Shares	BROIX
BlackRock Index Funds, Inc: iShares MSCI EAFE International Index Fund; Class K Shares	BTMKX
Catholic Responsible Investments Funds: Catholic Responsible Investments International Equity Fund; Inst Cl	CRLSX
Columbia Funds Series Trust I: Columbia Multi-Manager International Equity Strategies Fund; Instl Cl Shs	CMIEX
Empower Funds, Inc: Empower International Index Fund; Institutional Class Shares	MXPBX
Federated Hermes World Investment Series, Inc: Federated Hermes International Leaders Fund; Inst Cls ShS	FGFLX
Fidelity Concord Street Trust: Fidelity International Index Fund	FSPSX
Fidelity Salem Street Trust: Fidelity Flex International Index Fund	FITFX
Fidelity Salem Street Trust: Fidelity Global ex US Index Fund	FSGGX
Fidelity Salem Street Trust: Fidelity SAI International Index Fund	FIONX
Fidelity Salem Street Trust: Fidelity Series Global ex US Index Fund	FSGEX
GuideStone Funds: International Equity Fund; Institutional Class Shares	GIEYX
GuideStone Funds: International Equity Index Fund; Institutional Class Shares	GIIYX
Impax Funds Series Trust I: Impax International Sustainable Economy Fund; Institutional Class Shares	PXNIX
International Growth & Income Fund; Class R6 Shares	RIGGX
Ivy Funds: Macquarie International Core Equity Fund; Institutional Class Shares	ICEIX
Janus Investment Fund: Janus Henderson Overseas Fund; Class D Shares	JNOSX
MFS Series Trust XVII: MFS International Equity Fund; Class R6 Shares	MIEIX
Morgan Stanley Institutional Fund, Inc: International Equity Portfolio; Class I Shares	MSIQX
Nationwide Mutual Funds: Nationwide International Index Fund; Class R6 Shares	GIXIX
PACE Select Advisors Trust: PACE International Equity Investments; Class P Shares	PCIEX
Principal Funds, Inc: International Equity Index Fund; Class R-6 Shares	PFIEX
Putnam International Equity Fund; Class A Shares	POVSX
Schwab Capital Trust: Schwab International Index Fund	SWISX
T Rowe Price International Funds, Inc: T Rowe Price Overseas Stock Fund; Class Z Shares	TRZSX
T Rowe Price International Index Fund, Inc: T Rowe Price International Equity Index Fund	PIEQX
TIAA-CREF Funds: Nuveen International Equity Fund; Class W Shares	TIEWX
TIAA-CREF Funds: Nuveen International Equity Index Fund; Class R6 Shares	TCIEX
TIAA-CREF Funds: Nuveen International Responsible Equity Fund; Class R6 Shares	TSONX



**Lipper International Large-Cap Growth Funds Index**

American Century World Mutual Funds, Inc: International Growth Fund; Class G Shares	ACAEX
Artisan Partners Funds, Inc: Artisan International Fund; Institutional Shares	APHIX
BBH Trust: BBH Partner Fund - International Equity; Class I Shares	BBHLX
BNY Mellon Strategic Funds, Inc: BNY Mellon International Stock Fund; Class I Shares	DISRX
DFA Investment Dimensions Group Inc: International High Relative Profitability Portfolio; Institutional CI Shs	DIHRX
EuroPacific Growth Fund; Class R6 Shares	RERGX
Fidelity Advisor Series VIII: Fidelity Advisor International Capital Appreciation Fund; Class I Shares	FCPIX
Fidelity Investment Trust: Fidelity Advisor International Growth Fund; Class I Shares	FIIXX
Fidelity Investment Trust: Fidelity Diversified International Fund	FDIVX
Fidelity Investment Trust: Fidelity Diversified International K6 Fund	FKIDX
Fidelity Investment Trust: Fidelity International Capital Appreciation Fund	FIVFX
Fidelity Investment Trust: Fidelity International Capital Appreciation K6 Fund	FAPCX
Fidelity Investment Trust: Fidelity International Discovery Fund	FIGRX
Fidelity Investment Trust: Fidelity Series Canada Fund	FCNSX
Fidelity Investment Trust: Fidelity Series International Growth Fund	FIGSX
Fidelity Investment Trust: Fidelity Series Overseas Fund	FSOSX
Goldman Sachs Trust II: Goldman Sachs GQG Partners International Opportunities Fund; Institutional Class Shs	GSIMX
Hartford Mutual Funds II, Inc: Hartford Schroders International Stock Fund; Class I Shares	SCIEX
Investment Managers Series Trust: WCM Focused International Growth Fund; Institutional Class Shares	WCMIX
John Hancock Funds III: John Hancock International Growth Fund; Class I Shares	GOGIX
JPMorgan Trust I: JPMorgan International Equity Fund; Class R6 Shares	JNEMX
Lazard Funds, Inc: Lazard International Strategic Equity Portfolio; Institutional Shares	LISIX
Legg Mason Global Asset Management Trust: ClearBridge International Growth Fund; Class I Shares	LMGNX
MFS Series Trust I: MFS Research International Fund; Class R6 Shares	MRSKX
MFS Series Trust X: MFS International Growth Fund; Class R6 Shares	MGRDX
Morgan Stanley Institutional Fund, Inc: International Advantage Portfolio; Class I Shares	MFAIX
Perpetual Americas Funds Trust: JOHCM International Select Fund; Institutional Shares	JOHIX
Principal Funds, Inc: Diversified International Fund; Class R-6 Shares	PDIFX
Prudential World Fund, Inc: PGIM Jennison International Opportunities Fund; Class Z Shares	PWJZX
Vanguard World Fund: Vanguard International Growth Fund; Admiral Shares	VWILX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper International Large-Cap Value Index**

American Beacon Funds: American Beacon International Equity Fund; Class R5 Shares	AAIEX
Artisan Partners Funds, Inc: Artisan International Value Fund; Institutional Class Shares	APHKX
Causeway Capital Management Trust: Causeway International Value Fund; Institutional Class Shares	CIVIX
Dodge & Cox Funds: Dodge & Cox International Stock Fund; Class I Shares	DODFX
Fidelity Investment Trust: Fidelity International Value Fund	FIVLX
Fidelity Investment Trust: Fidelity Series International Value Fund	FINVX
Fidelity Salem Street Trust: Fidelity SAI International Value Index Fund	FIWCX
Gallery Trust: Mondrian International Value Equity Fund	MPIEX
MFS Series Trust X: MFS International Large Cap Value Fund; Class R6 Shares	MKVHX
Vanguard Horizon Funds: Vanguard International Core Stock Fund; Admiral Class Shares	VZICX

**Lipper International Multi-Cap Core Funds Index**

Columbia Funds Series Trust II: Columbia Overseas Core Fund; Institutional 3 Class Shares	COSOX
DFA Investment Dimensions Group Inc: International Sustainability Core 1 Portfolio	DFSPX
DFA Investment Dimensions Group Inc: Large Cap International Portfolio; Institutional Class Shares	DFALX
Empower Funds, Inc: Empower Core Strategies International Equity Fund; Investor Class Shares	MXEVX
Empower Funds, Inc: Empower International Value Fund; Institutional Share Class	MXJVX
Fidelity Concord Street Trust: Fidelity ZERO International Index Fund	FZILX
Fidelity Salem Street Trust: Fidelity SAI International Low Volatility Index Fund	FSKLX
Fidelity Salem Street Trust: Fidelity Total International Index Fund	FTIHX
FMI Funds, Inc: FMI International Fund; Institutional Class Shares	FMIYX
Goldman Sachs Trust: Goldman Sachs International Equity Insights Fund; Institutional Class Shares	GCIIX
Goldman Sachs Trust: Goldman Sachs International Tax-Managed Equity Fund; Class R6 Shares	GHTRX
Harbor Funds: Harbor Diversified International All Cap Fund; Retirement Class Shares	HNIDX
Harbor Funds: Harbor International Fund; Institutional Class Shares	HAIXX
Mercer Funds: Mercer Non-US Core Equity Fund; Class Y-3 Shares	MNCEX
Morgan Stanley Pathway Funds: International Equity Fund	TIEUX
Morningstar Funds Trust: Morningstar International Equity Fund; Institutional Class Shares	MSTFX
Northern Funds: International Equity Index Fund	NOINX
PIMCO Funds: PIMCO StocksPLUS International Fund (US Dollar-Hedged); Institutional Class Shares	PISIX
Putnam Focused International Equity Fund; Class A Shares	PEQUX
Russell Investment Company: International Developed Markets Fund; Class S Shares	RINTX
Schwab Capital Trust: Schwab International Core Equity Fund	SICNX
SEI Institutional International Trust: International Equity Fund; Class F Shares	SEITX
SEI Institutional Investments Trust: World Equity Ex-US Fund; Class A Shares	WEUSX
State Street Institutional Investment Trust: State Street Global All Cap Equity ex-US Index Fd; Class K Shares	SSGLX
State Street Institutional Investment Trust: State Street Global All Cap Equity ex-US Index Portfolio	SSGVX
T Rowe Price Spectrum Fund, Inc: Spectrum International Equity Fund; Class I Shares	TSINX
Thrivent Mutual Funds: Thrivent International Allocation Fund; Class S Shares	TWAIX
Vanguard STAR Funds: Vanguard Total International Stock Index Fund; Investor Shares	VGTSX
Victory Portfolios III: Victory International Fund; Institutional Shares Class	UIIFX
Wilmington Funds: Wilmington International Fund; Institutional Shares	WINIX

**Lipper International Multi-Cap Growth Funds Index**

AB Sustainable International Thematic Fund, Inc; Advisor Class Shares	AWPYX
AIM Growth Series (Invesco Growth Series): Invesco International Diversified Fund; Class Y Shares	OIDYX
AIM International Mutual Funds (Invesco International Mutual Funds): Invesco Oppen Internatl Gro Fd; Cls R6 Sh	OIGIX
Baillie Gifford Funds: Baillie Gifford Developed EAFE All Cap Fund; Class K Shares	BGPKX
Baillie Gifford Funds: Baillie Gifford International Alpha Fund; Class K Shares	BGIKX
Baron Select Funds: Baron International Growth Fund; Institutional Class Shares	BINIX
Brinker Capital Destinations Trust: Destinations International Equity Fund; Class I Shares	DIEFX
Buffalo Funds: Buffalo International Fund; Institutional Class Shares	BUIIX
Calvert Responsible Index Series, Inc: Calvert International Responsible Index Fund; Class I Shares	CDHIX
Clearwater Investment Trust: Clearwater International Fund	QCVAX
Empower Funds, Inc: Empower International Growth Fund; Institutional Share Class	MXHTX
Federated Hermes Adviser Series: Federated Hermes International Equity Fund; Institutional Class Shares	PIUIX
Federated Hermes Adviser Series: Federated Hermes International Growth Fund; Institutional Class Shares	PIGDY
Fidelity Investment Trust: Fidelity Overseas Fund	FOSFX
Fidelity Investment Trust: Fidelity SAI International SMA Completion Fund	FISZX
Fidelity Rutland Square Trust II: Strategic Advisers Fidelity International Fund	FUSIX
Fidelity Rutland Square Trust II: Strategic Advisers International Fund	FILFX
Franklin Global Trust: Franklin International Growth Fund; Advisor Class Shares	FNGZX
Manning & Napier Fund, Inc: Overseas Series; Class W Shares	MNOWX
MFS Series Trust X: MFS International Diversification Fund; Class I Shares	MDIJX
MFS Series Trust X: MFS International Intrinsic Value Fund; Class R6 Shares	MINJX
Neuberger Berman Equity Funds: Neuberger Berman International Equity Fund; Institutional Class Shares	NBIIX
Northern Funds: Active M International Equity Fund	NMIEX
Optimum Fund Trust: Optimum International Fund; Institutional Class Shares	OIIEX
Schwab Capital Trust: Schwab International Opportunities Fund	SWMIX
T Rowe Price International Funds, Inc: T Rowe Price International Stock Fund; Class Z Shares	TRNZX
TIAA-CREF Funds: Nuveen International Opportunities Fund; Class W Shares	TIOVX
Vanguard Whitehall Funds: Vanguard Advice Select International Growth Fund; Admiral Class Shares	VAIGX
Victory Portfolios: Victory RS International Fund; Class R6 Shares	RSIRX
Voya Mutual Funds: Voya Multi-Manager International Equity Fund; Class I Shares	IIGIX

---

**Lipper International Multi-Cap Value Funds Index**

Advisors' Inner Circle Fund II: Kopernik International Fund; Class I Shares	KGIIIX
American Century World Mutual Funds, Inc: International Value Fund; Class G Shares	ACAFX
American Century World Mutual Funds, Inc: Non-US Intrinsic Value Fund; Class G Shares	ANTGX
AQR Funds: AQR International Multi-Style Fund; Class R6 Shares	QICRX
Columbia Funds Series Trust: Columbia Overseas Value Fund; Institutional 2 Class Shares	COSSX
Datum One Series Trust: Brandes International Equity Fund; Class I Shares	BIIEIX
DFA Investment Dimensions Group Inc: DFA International Vector Equity Portfolio; Institutional Class Shares	DFVQX
DFA Investment Dimensions Group Inc: International Core Equity Portfolio; Institutional Class Shares	DFIEX
DFA Investment Dimensions Group Inc: International Social Core Equity Portfolio; Institutional Class Shares	DSCLX
DFA Investment Dimensions Group Inc: World ex US Core Equity Portfolio; Institutional Class Shares	DFWIX
DFA Investment Dimensions Group Inc: World ex US Value Portfolio; Institutional Class Shares	DFWVX
Dimensional Investment Group Inc: DFA International Value Portfolio; Institutional Class Shares	DFIVX
First Eagle Funds: First Eagle Overseas Fund; Class I Shares	SGOIX
Franklin Mutual Series Funds: Franklin Mutual International Value Fund; Class Z Shares	MEURX
GMO Trust: GMO International Equity Fund; Class IV Shares	GMCFX
GMO Trust: GMO International Opportunistic Value Fund; Class IV Shares	GMAZX
Harris Associates Investment Trust: Oakmark International Fund; Investor Class Shares	OAKIX
Hartford Mutual Funds II, Inc: Hartford Schroders International Multi-Cap Value Fund; Class I Shares	SIDNX
Hartford Mutual Funds, Inc: Hartford International Value Fund; Class I Shares	HILIX
John Hancock Investment Trust: John Hancock Disciplined Value International Fund; Class NAV Shares	JDIVX
Longleaf Partners Funds Trust: Longleaf Partners International Fund	LLINX
Pear Tree Funds: Pear Tree Polaris Foreign Value Fund; Institutional Shares	QFVIX
PIMCO Equity Series: PIMCO RAE International Fund; Institutional Class Shares	PPYIX
Principal Funds, Inc: Overseas Fund; Institutional Class Shares	PINZX
RBB Fund, Inc: Free Market International Equity Fund; Institutional Class Shares	FMNEX
SA Funds - Investment Trust: SA International Value Fund	SAHMX
T Rowe Price International Funds, Inc: T Rowe Price International Value Equity Fund; Class Z Shares	TROZX
Templeton Funds, Inc: Templeton Foreign Fund; Class A Shares	TEMFX
Tweedy, Browne Fund, Inc: Tweedy, Browne International Value Fund	TBGVX
Vanguard Trustees' Equity Fund: Vanguard International Value Fund; Investor Shares	VTRIX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper International Small/Mid-Cap Core Funds Index**

Bernstein Fund, Inc: International Small Cap Portfolio; Advisor Class Shares	IRCYX
DFA Investment Dimensions Group Inc: International Small Company Portfolio; Institutional Class Shares	DFISX
Fidelity Concord Street Trust: Fidelity SAI International Small Cap Index Fund	FSISX
Fidelity Investment Trust: Fidelity International Small Cap Fund	FISMX
Goldman Sachs Trust: Goldman Sachs International Small Cap Insights Fund; Institutional Class Shares	GICIX
Harris Associates Investment Trust: Oakmark International Small Cap Fund; Institutional Class Shares	OANEX
Principal Funds, Inc: International Small Company Fund; Class R-6 Shares	PFISX
SA Funds - Investment Trust: SA International Small Company Fund	SAISX
Segall Bryant & Hamill Trust: Segall Bryant & Hamill International Small Cap Fund; Institutional Class Shares	SBSIX
Victory Portfolios: Victory Trivalent International Small-Cap Fund; Class I Shares	MISIX

## Lipper International Small/Mid-Cap Growth Funds Index

AIM Funds Group (Invesco Funds Group): Invesco EQV International Small Company Fund; Class R6 Shares	IEGFX
AIM International Mutual Funds (Invesco International Mutual Funds): Invesco Intl Small-Mid Co F; Class R6 Shs	OSCIX
American Century World Mutual Funds, Inc: International Opportunities Fund; Investor Class Shares	AIOIX
American Century World Mutual Funds, Inc: International Small-Mid Cap Fund; Class G Shares	ANTMX
Artisan Partners Funds, Inc: Artisan International Small-Mid Fund; Institutional Shares	APHJX
Brown Capital Management Mutual Funds: Brown Capital Management International Small Company Fund; Inst Shares	BCSFX
Calvert World Values Fund, Inc: Calvert International Opportunities Fund; Class I Shares	COIIX
Columbia Acorn Trust: Columbia Acorn International; Institutional Class Shares	ACINX
DFA Investment Dimensions Group Inc: International Small Cap Growth Portfolio; Institutional Class Shares	DISMX
Driehaus Mutual Funds: Driehaus International Small Cap Growth Fund	DRIOX
Federated Hermes World Investment Series, Inc: Federated Hermes International Small-Mid Company Fd; Inst Shs	ISCIX
Fidelity Investment Trust: Fidelity International Small Cap Opportunities Fund	FSCOX
Fidelity Investment Trust: Fidelity Series International Small Cap Fund	FSTSX
Grandeur Peak Global Trust: Grandeur Peak International Opportunities Fund; Institutional Class Shares	GPIIX
Grandeur Peak Global Trust: Grandeur Peak International Stalwarts Fund; Institutional Class Shares	GISYX
Harding, Loevner Funds, Inc: International Small Companies Portfolio; Institutional Class Shares	HLMRX
Investment Managers Series Trust: WCM International Small Cap Growth Fund; Institutional Class Shares	WCMSX
Manning & Napier Fund, Inc: Rainier International Discovery Series; Class I Shares	RAIIX
MFS Series Trust V: MFS International New Discovery Fund; Class R6 Shares	MIDLX
Nationwide Mutual Funds: Nationwide International Small Cap Fund; Class R6 Shares	NWXUX
Putnam Investment Funds: Putnam International Capital Opportunities Fund; Class A Shares	PNVAX
Royce Fund: Royce International Premier Fund; Investment Class Shares	RIPNX
T Rowe Price International Funds, Inc: T Rowe Price International Discovery Fund; Class I Shares	TIDDX
Templeton Institutional Funds: Foreign Smaller Companies Series	TFSCX
TIAA-CREF Funds: Nuveen Quant International Small Cap Equity Fund; Class W Shares	TAIWX
Vanguard Whitehall Funds: Vanguard International Explorer Fund; Investor Shares	VINEX
Virtus Opportunities Trust: Virtus KAR International Small-Mid Cap Fund; Class I Shares	VIISX
Voya Mutual Funds: Voya Multi-Manager International Small Cap Fund; Class I Shares	NAPIX
Wasatch Funds Trust: Wasatch International Growth Fund; Investor Class Shares	WAIGX
Wasatch Funds Trust: Wasatch International Opportunities Fund; Institutional Class Shares	WIIOX

## Lipper International Small-Cap Funds Index

AIM International Mutual Funds (Invesco International Mutual Funds): Invesco Intl Small-Mid Co F; Class R6 Shs	OSCIX
American Century World Mutual Funds, Inc: International Opportunities Fund; Investor Class Shares	AIOIX
American Century World Mutual Funds, Inc: International Small-Mid Cap Fund; Class G Shares	ANTMX
Artisan Partners Funds, Inc: Artisan International Small-Mid Fund; Institutional Shares	APHJX
Bernstein Fund, Inc: International Small Cap Portfolio; Advisor Class Shares	IRCYX
Brown Capital Management Mutual Funds: Brown Capital Management International Small Company Fund; Inst Shares	BCSFX
Columbia Acorn Trust: Columbia Acorn International; Institutional Class Shares	ACINX
Datum One Series Trust: Brandes International Small Cap Equity Fund; Class I Shares	BISMX
DFA Investment Dimensions Group Inc: DFA International Small Cap Value Portfolio; Institutional Class Shares	DISVX
DFA Investment Dimensions Group Inc: International Small Company Portfolio; Institutional Class Shares	DFISX
DFA Investment Dimensions Group Inc: World ex US Targeted Value Portfolio; Institutional Class Shares	DWUSX
Fidelity Concord Street Trust: Fidelity SAI International Small Cap Index Fund	FSISX
Fidelity Investment Trust: Fidelity International Small Cap Fund	FISMX
Fidelity Investment Trust: Fidelity International Small Cap Opportunities Fund	FSCOX
Fidelity Investment Trust: Fidelity Series International Small Cap Fund	FSTSX
Goldman Sachs Trust: Goldman Sachs International Small Cap Insights Fund; Institutional Class Shares	GICIX
Grandeur Peak Global Trust: Grandeur Peak International Opportunities Fund; Institutional Class Shares	GPIIX
Grandeur Peak Global Trust: Grandeur Peak International Stalwarts Fund; Institutional Class Shares	GISYX
Harding, Loevner Funds, Inc: International Small Companies Portfolio; Institutional Class Shares	HLMRX
Harris Associates Investment Trust: Oakmark International Small Cap Fund; Class R6 Shares	OAZEX
MFS Series Trust V: MFS International New Discovery Fund; Class R6 Shares	MIDLX
Nationwide Mutual Funds: Nationwide International Small Cap Fund; Class R6 Shares	NWXUX
Pear Tree Funds: Pear Tree Polaris Foreign Value Small Cap Fund; Institutional Class Shares	QUSIX
Principal Funds, Inc: International Small Company Fund; Class R-6 Shares	PFISX
Schwab Capital Trust: Schwab Fundamental International Small Equity Index Fund	SFILX
T Rowe Price International Funds, Inc: T Rowe Price International Discovery Fund; Class I Shares	TIDDX
TIAA-CREF Funds: Nuveen Quant International Small Cap Equity Fund; Class W Shares	TAIWX
Vanguard Whitehall Funds: Vanguard International Explorer Fund; Investor Shares	VINEX
Victory Portfolios: Victory Trivalent International Small-Cap Fund; Class I Shares	MISIX
Virtus Opportunities Trust: Virtus KAR International Small-Mid Cap Fund; Class I Shares	VIISX



**Index Name    Full Fund Name****Nasdaq Symbol****Lipper Japan Funds Index**

DFA Investment Dimensions Group Inc: Japanese Small Company Portfolio; Institutional Class Shares	DFJSX
Fidelity Concord Street Trust: Fidelity SAI Japan Stock Index Fund	FSJPX
Fidelity Investment Trust: Fidelity Japan Fund	FJPNX
Fidelity Investment Trust: Fidelity Japan Smaller Companies Fund	FJSCX
GMO Trust: GMO-Usonian Japan Value Creation Fund; Class VI Shares	GMAHX
Hennessy Funds Trust: Hennessy Japan Fund; Investor Class Shares	HJPNX
Hennessy Funds Trust: Hennessy Japan Small Cap Fund; Investor Class Shares	HJPSX
Matthews Asia Funds: Matthews Japan Fund; Investor Class Shares	MJFOX
RMB Investors Trust: RMB Japan Fund; Class I Shares	RMBPX
T Rowe Price International Funds, Inc: T Rowe Price Japan Fund	PRJPX

**Lipper Micro-Cap Funds Index**

Bridgeway Funds, Inc: Bridgeway Ultra-Small Company Market Fund	BRSIX
DFA Investment Dimensions Group Inc: US Micro Cap Portfolio; Institutional Class Shares	DFSCX
Driehaus Mutual Funds: Driehaus Micro Cap Growth Fund	DMCRX
Franklin Value Investors Trust: Franklin Mutual Small-Mid Cap Value Fund; Class A Shares	FRMCX
Oberweis Funds: Oberweis Micro-Cap Fund; Investor Class Shares	OBMCX
Royce Fund: Royce Micro-Cap Fund; Investment Class Shares	RYOTX
TETON Westwood Funds: TETON Westwood Mighty Mites Fund; Class I Shares	WEIMX
Wasatch Funds Trust: Wasatch Micro Cap Fund; Investor Class Shares	WMICX
Wasatch Funds Trust: Wasatch Micro Cap Value Fund; Investor Class Shares	WAMVX
Wasatch Funds Trust: Wasatch Small Cap Value Fund; Investor Class Shares	WMCVX

**Index Name    Full Fund Name****Nasdaq Symbol****Lipper Mid-Cap Funds Index**

Advisors' Inner Circle Fund II: Champlain Mid Cap Fund; Institutional Shares	CIPIX
Allspring Funds Trust: Allspring Special Mid Cap Value Fund; Institutional Class Shares	WFMIX
Baron Investment Funds Trust: Baron Growth Fund; Institutional Class Shares	BGRIX
BlackRock Funds: BlackRock Mid-Cap Growth Equity Portfolio; Institutional Shares	CMGIX
Bridge Builder Trust: Bridge Builder Small/Mid Cap Growth Fund	BBGSX
Bridge Builder Trust: Bridge Builder Small/Mid Cap Value Fund	BBVSX
DFA Investment Dimensions Group Inc: US Targeted Value Portfolio; Institutional Class Shares	DFFVX
DFA Investment Dimensions Group Inc: US Vector Equity Portfolio; Institutional Class Shares	DFVEX
Eaton Vance Growth Trust: Eaton Vance Atlanta Capital SMID-Cap Fund; Class I Shares	EISMX
Fidelity Capital Trust: Fidelity Value Fund	FDVLX
Fidelity Concord Street Trust: Fidelity Extended Market Index Fund	FSMAX
Fidelity Concord Street Trust: Fidelity Mid-Cap Stock Fund	FMCSX
Fidelity Puritan Trust: Fidelity Low-Priced Stock Fund	FLPSX
Fidelity Salem Street Trust: Fidelity Mid Cap Index Fund	FSMDX
Janus Investment Fund: Janus Henderson Enterprise Fund; Class I Shares	JMGRX
John Hancock Funds III: John Hancock Disciplined Value Mid Cap Fund; Institutional Class Shares	JVMIX
JP Morgan Fleming Mutual Fund Group, Inc: JPMorgan Mid Cap Value Fund; Class L Shares	FLMVX
JPMorgan Trust II: JPMorgan Mid Cap Growth Fund; Class R6 Shares	JMGMX
MassMutual Select Funds: MassMutual Mid Cap Growth Fund; Class I Shares	MEFZX
MFS Series Trust IV: MFS Mid Cap Growth Fund; Class R6 Shares	OTCKX
MFS Series Trust XI: MFS Mid Cap Value Fund; Class R6 Shares	MVCKX
Parnassus Funds: Parnassus Mid Cap Fund; Institutional Class Shares	PFPMX
T Rowe Price Institutional Equity Funds, Inc: T Rowe Price Institutional Mid-Cap Equity Growth Fund	PMEGX
T Rowe Price Mid-Cap Growth Fund, Inc	RPMGX
T Rowe Price Mid-Cap Value Fund, Inc; Class I Shares	TRMIX
T Rowe Price New Horizons Fund, Inc; Class I Shares	PRJIX
Vanguard Horizon Funds: Vanguard Strategic Equity Fund; Investor Class Shares	VSEQX
Vanguard Index Funds: Vanguard Extended Market Index Fund; Institutional Select Shares	VSEMX
Vanguard Whitehall Funds: Vanguard Selected Value Fund; Investor Shares	VASVX
Victory Portfolios: Victory Sycamore Established Value Fund; Class R6 Shares	VEVRX

**Lipper Natural Resource Funds Index**

AIM Sector Funds (Invesco Sector Funds): Invesco Energy Fund; Class A Shares	IENAX
BNY Mellon Opportunity Funds: BNY Mellon Natural Resources Fund; Class I Shares	DLDRX
Fidelity Advisor Series VII: Fidelity Advisor Energy Fund; Class A Shares	FANAX
Fidelity Select Portfolios: Energy Portfolio	FSENX
Fidelity Select Portfolios: Natural Resources Portfolio	FNARX
Hennessy Funds Trust: Hennessy Energy Transition Fund; Institutional Class Shares	HNRIX
Integrity Funds: Integrity Mid-North American Resources Fund; Class A Shares	ICPAX
Rydex Series Funds: Energy Fund; Investor Class Shares	RYEIX
Rydex Series Funds: Energy Services Fund; Investor Class Shares	RYVIX
SCM Trust: ICON Natural Resources and Infrastructure Fund; Institutional Class Shares	ICBMX

**Lipper Pacific Region Ex-Japan Funds Index**

AIM International Mutual Funds (Invesco International Mutual Funds): Invesco EQV Asia Pacific E Fd; CI A Shs	ASIAx
Commonwealth International Series Trust: Commonwealth Australia/New Zealand Fund	CNZLX
Guinness Atkinson Funds: Asia Focus Fund	IASMX
Matthews Asia Funds: Matthews Asia Innovators Fund; Investor Class Shares	MATFX
Matthews Asia Funds: Matthews Asian Growth & Income Fund; Institutional Shares	MICSX
Matthews Asia Funds: Matthews Pacific Tiger Fund; Institutional Class Shares	MIPTX
Morgan Stanley Institutional Fund, Inc: Asia Opportunity Portfolio; Class I Shares	MSAQX
T Rowe Price International Funds, Inc: T Rowe Price Asia Opportunities Fund	TRAOX
T Rowe Price International Funds, Inc: T Rowe Price New Asia Fund	PRASX

**Lipper Precious Metals Equity Fund Index**

AIM Sector Funds (Invesco Sector Funds): Invesco Gold & Special Minerals Fund; Class A Shares	OPGSX
American Century Quantitative Equity Funds, Inc: Global Gold Fund; Investor Class Shares	BGEIX
Fidelity Select Portfolios: Gold Portfolio	FSAGX
First Eagle Funds: First Eagle Gold Fund; Class A Shares	SGGDx
Franklin Gold and Precious Metals Fund; Class A Shares	FKRCX
Gabelli Gold Fund, Inc; Class I Shares	GLDIX
Investment Managers Series Trust: EuroPac Gold Fund; Class A Shares	EPGFX
Sprott Funds Trust: Sprott Gold Equity Fund; Investor Class Shares	SGDLX
VanEck Funds: International Investors Gold Fund; Class A Shares	INIVX
Victory Portfolios III: Victory Precious Metals & Minerals Fund; Fund Shares Class	USAGX

## Lipper Real Estate Funds Index

Advisors' Inner Circle Fund III: Knights of Columbus Real Estate Fund; Class I Shares	KCRIX
AIM Investment Securities Funds (Invesco Investment Securities Funds): Invesco Real Estate Fund; Class A Shs	IARAX
American Century Capital Portfolios, Inc: Real Estate Fund; Investor Class Shares	REACX
Baron Select Funds: Baron Real Estate Fund; Institutional Shares	BREIX
Baron Select Funds: Baron Real Estate Income Fund; Institutional Class Shares	BRIIX
BlackRock Funds: BlackRock Real Estate Securities Fund; Institutional Class Shares	BIREX
Cohen & Steers Institutional Realty Shares, Inc	CSRIX
Cohen & Steers Real Estate Securities Fund, Inc; Class I Shares	CSDIX
Cohen & Steers Realty Shares, Inc; Class L Shares	CSRSX
Deutsche DWS Securities Trust: DWS RREEF Real Estate Securities Fund; Institutional Class Shares	RRRRX
DFA Investment Dimensions Group Inc: DFA Real Estate Securities Portfolio; Institutional Class Shares	DFREX
Empower Funds, Inc: Empower Real Estate Index Fund; Investor Class Shares	MXREX
Fidelity Salem Street Trust: Fidelity Real Estate Index Fund	FSRNK
Fidelity Securities Fund: Fidelity Advisor Real Estate Income Fund; Class Z Shares	FIKMX
Fidelity Securities Fund: Fidelity Series Real Estate Income Fund	FSREX
Fidelity Select Portfolios: Fidelity Real Estate Investment Portfolio	FRESX
Franklin Real Estate Securities Trust: Franklin Real Estate Securities Fund; Class A Shares	FREEX
John Hancock Funds II: Real Estate Securities Fund; Class 1 Shares	JIREX
Neuberger Berman Equity Funds: Neuberger Berman Real Estate Fund; Institutional Class Shares	NBRIX
New Age Alpha Funds Trust: NAA Risk Managed Real Estate Fund; Institutional Class Shares	GURIX
New York Life Investments Funds Trust: NYLI CBRE Real Estate Fund; Class I Shares	CRARX
Northern Lights Fund Trust: Altegris/AACA Opportunistic Real Estate Fund; Class I Shares	RAAIX
Nuveen Investment Funds, Inc: Nuveen Real Estate Securities Fund; Class I Shares	FARCX
PIMCO Funds: PIMCO RealEstateRealReturn Strategy Fund; Institutional Class Shares	PRRSX
Principal Funds, Inc: Real Estate Securities Fund; Institutional Class Shares	PIREX
T Rowe Price Real Estate Fund, Inc	TRREX
TIAA-CREF Funds: Nuveen Real Estate Securities Select Fund; Class R6 Shares	TIREX
Ultimus Managers Trust: Westwood Real Estate Income Fund; Institutional Class Shares	KIFYX
Vanguard Fixed Income Securities Funds: Vanguard Real Estate II Index Fund; Institutional Plus Shares	VRTPX
Virtus Opportunities Trust: Virtus Duff & Phelps Real Estate Securities Fund; Class I Shares	PHRIX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Real Return Funds Index**

AB Bond Fund, Inc: AB All Market Real Return Portfolio; Class 1 Shares	AMTOX
Cohen & Steers Real Assets Fund, Inc; Class I Shares	RAPIX
Fidelity Salem Street Trust: Fidelity Strategic Real Return Fund	FSRRX
Nuveen Investment Funds, Inc: Nuveen Real Asset Income Fund; Class I Shares	NRIIX
Principal Funds, Inc: Diversified Real Asset Fund; Institutional Class Shares	PDRDX
Russell Investment Company: Tax-Managed Real Assets Fund; Class S Shares	RTXSX
SEI Institutional Investments Trust: Multi-Asset Real Return Fund; Class A Shares	SEIAX
SEI Institutional Managed Trust: Multi-Asset Inflation Managed Fund; Class F Shares	SIFAX
T Rowe Price Real Assets Fund, Inc; Class Z Shares	TRZRX
Wilmington Funds: Wilmington Real Asset Fund; Institutional Shares	WMRIX

**Lipper Science & Technology Funds Index**

AIM Sector Funds (Invesco Sector Funds): Invesco Technology Fund; Investor Class Shares	FTCHX
Allspring Funds Trust: Allspring Innovation Fund; Class A Shares	WFSTX
BNY Mellon Advantage Funds, Inc: BNY Mellon Technology Growth Fund; Class A Shares	DTGRX
Columbia Funds Series Trust I: Columbia Global Technology Growth Fund; Institutional Class Shares	CMTFX
Columbia Funds Series Trust II: Columbia Seligman Technology & Information Fund; Class A Shares	SLMCX
Deutsche DWS Securities Trust: DWS Science and Technology Fund; Class A Shares	KTCAX
Fidelity Advisor Series VII: Fidelity Advisor Semiconductors Fund; Class I Shares	FELIX
Fidelity Advisor Series VII: Fidelity Advisor Technology Fund; Class A Shares	FADTX
Fidelity Select Portfolios: Enterprise Technology Services Portfolio	FBSOX
Fidelity Select Portfolios: Semiconductors Portfolio	FSELX
Fidelity Select Portfolios: Software and IT Services Portfolio	FSCSX
Fidelity Select Portfolios: Tech Hardware Portfolio	FDCPX
Fidelity Select Portfolios: Technology Portfolio	FSPTX
Firsthand Funds: Technology Opportunities Fund	TEFQX
Goldman Sachs Trust: Goldman Sachs Technology Opportunities Fund; Class A Shares	GITAX
Ivy Funds: Macquarie Science & Technology Fund; Institutional Class Shares	ISTIX
Kinetics Mutual Funds, Inc: Internet Fund; No Load Class	WWWFX
MFS Series Trust I: MFS Technology Fund; Class A Shares	MTCAX
Mutual Fund Series Trust: Eventide Exponential Technologies Fund; Class I Shares	ETIEX
Nationwide Mutual Funds: Nationwide Bailard Technology & Science Fund; Class M Shares	NWHQX
Nationwide Mutual Funds: Nationwide NYSE Arca Tech 100 Index Fund; Class A Shares	NWJCX
Oak Associates Funds: Black Oak Emerging Technology Fund	BOGSX
Oak Associates Funds: Red Oak Technology Select Fund	ROGSX
Rydex Series Funds: Electronics Fund; Investor Class Shares	RYSIX
Rydex Series Funds: Technology Fund; Investor Class Shares	RYTIX
SCM Trust: ICON Health and Information Technology Fund; Institutional Class Shares	ICTEX
T Rowe Price Science & Technology Fund, Inc	PRSCX
Victory Portfolios III: Victory Science & Technology Fund; Fund Shares Class	USSCX
Victory Portfolios: Victory RS Science and Technology Fund; Class A Shares	RSIFX
Virtus Investment Trust: Virtus Zevenbergen Technology Fund; Institutional Class Shares	DRGTX

---

**Lipper Small Cap Funds Index**

Allspring Funds Trust: Allspring Special Small Cap Value Fund; Institutional Class Shares	ESPNX
Baron Investment Funds Trust: Baron Small Cap Fund; Institutional Class Shares	BSFIX
Calvert Impact Fund, Inc: Calvert Small Cap Fund; Class I Shares	CSVIX
Capitol Series Trust: FullerThaler Behavioral Small-Cap Equity Fund; Institutional Class Shares	FTHSX
Conestoga Funds: Conestoga Small Cap Fund; Institutional Class Shares	CCALX
Delaware Group Equity Funds V: Macquarie Small Cap Core Fund; Institutional Class Shares	DCCIX
Delaware Group Equity Funds V: Macquarie Small Cap Value Fund; Institutional Class Shares	DEVIX
DFA Investment Dimensions Group Inc: US Small Cap Portfolio; Institutional Class Shares	DFSTX
DFA Investment Dimensions Group Inc: US Small Cap Value Portfolio; Institutional Class Shares	DFSVX
Federated Hermes Equity Funds: Federated Hermes Kaufmann Small Cap Fund; Institutional Class Shares	FKAIX
Fidelity Concord Street Trust: Fidelity Small Cap Discovery Fund	FSCRX
Fidelity Salem Street Trust: Fidelity Small Cap Index Fund	FSSNX
Fidelity Securities Fund: Fidelity Series Small Cap Opportunities Fund	FSOPX
Fidelity Securities Fund: Fidelity Small Cap Growth Fund	FCPGX
Fidelity Securities Fund: Fidelity Small Cap Value Fund	FCPVX
Neuberger Berman Equity Funds: Neuberger Berman Genesis Fund; Class R6 Shares	NRGSX
Schwab Capital Trust: Schwab Small-Cap Index Fund	SWSSX
T Rowe Price Institutional Equity Funds, Inc: T Rowe Price Institutional Small-Cap Stock Fund	TRSSX
T Rowe Price Integrated Equity Funds, Inc: T Rowe Price Integrated US Sm-Cap Growth Eq Fd	PRDSX
T Rowe Price Small-Cap Stock Fund, Inc	OTCFX
T Rowe Price Small-Cap Value Fund, Inc	PRSVX
TIAA-CREF Funds: Nuveen Small Cap Blend Index Fund; Class R6 Shares	TISBX
Undiscovered Managers Funds: Undiscovered Managers Behavioral Value Fund; Class L Shares	UBVLX
Vanguard Explorer Fund; Admiral Shares	VEXRX
Vanguard Index Funds: Vanguard Small-Cap Growth Index Fund; Admiral Class Shares	VSGAX
Vanguard Index Funds: Vanguard Small-Cap Index Fund; Admiral Shares	VSMAX
Vanguard Index Funds: Vanguard Small-Cap Value Index Fund; Admiral Class Shares	VSIAX
Vanguard Tax-Managed Funds: Vanguard Tax-Managed Small-Cap Fund; Admiral Shares	VTMSX
Victory Portfolios: Victory Sycamore Small Company Opportunity Fund; Class I Shares	VSOIX
Virtus Equity Trust: Virtus KAR Small-Cap Growth Fund; Class I Shares	PXSGX

**Lipper Specialty & Miscellaneous Funds Index**

Advisors' Inner Circle Fund III: KBI Global Investors Aquarius Fund; Institutional Class Shares	KBIWX
Calvert Impact Fund, Inc: Calvert Global Water Fund; Class I Shares	CFWIX
Fidelity Summer Street Trust: Fidelity Water Sustainability Fund	FLOWX
Forum Funds II: ABR Dynamic Blend Equity & Volatility Fund; Institutional Class Shares	ABRVX
GMO Trust: GMO Climate Change Fund; Class III Shares	GCCHX
GMO Trust: GMO Quality Cyclical Fund; Class VI Shares	GMAEX
Ivy Funds: Macquarie Climate Solutions Fund; Institutional Class Shares	IVEIX
New Alternatives Fund; Class A Shares	NALFX
Trust for Professional Managers: Rockefeller Climate Solutions Fund; Institutional Class Shares	RKCIX
Virtus Strategy Trust: Virtus Duff & Phelps Water Fund; Institutional Class Shares	AWTIX

**Lipper Telecommunication Funds Index**

Deutsche DWS Securities Trust: DWS Communications Fund; Class A Shares	COMAX
Fidelity Select Portfolios: Telecommunications Portfolio	FSTCX
Fidelity Select Portfolios: Wireless Portfolio	FWRLX
GAMCO Global Series Funds, Inc: Gabelli Global Content & Connectivity Fund; Class AAA Shares	GABTX
PFS Funds: Wireless Fund	WIREX
Rydex Series Funds: Telecommunications Fund; Investor Class Shares	RYMIX
T Rowe Price Communications & Technology, Inc	PRMTX

**Lipper Utility Funds Index**

Allspring Funds Trust: Allspring Utility & Telecommunications Fund; Class A Shares	EVUAX
American Century Quantitative Equity Funds, Inc: Utilities Fund; Investor Class Shares	BULIX
Fidelity Advisor Series VII: Fidelity Advisor Utilities Fund; Class A Shares	FUGAX
Fidelity Select Portfolios: Fidelity Telecom & Utilities Fund	FIUIX
Fidelity Select Portfolios: Utilities Portfolio	FSUTX
Franklin Custodian Funds: Franklin Utilities Fund; Class A1 Shares	FKUTX
Gabelli Utilities Fund; Class A Shares	GAUAX
Hennessy Funds Trust: Hennessy Gas Utility Fund; Investor Class Shares	GASFX
MFS Series Trust VI: MFS Utilities Fund; Class A Shares	MMUFX
Prudential Sector Funds, Inc: PGIM Jennison Utility Fund; Class A Shares	PRUAX



## Taxable Fixed Income

## Lipper A Rated Bond Funds Index

HC Capital Trust: US Corporate Fixed Income Securities Portfolio; HC Strategic Class Shares	HCXSX
Pioneer Bond Fund; Class Y Shares	PICYX
Saturna Investment Trust: Sextant Bond Income Fund	SBIFX
Schwartz Investment Trust: Ave Maria Bond Fund	AVEFX
SEI Institutional Investments Trust: Intermediate Duration Credit Fund; Class A Shares	SIDCX
SEI Institutional Investments Trust: Long Duration Credit Fund; Class A Shares	SLDAX
Vanguard Bond Index Funds: Vanguard Long-Term Bond Index Fund; Institutional Plus Class Shares	VBLIX
Vanguard Fixed Income Securities Funds: Vanguard Long-Term Investment-Grade Fund; Admiral Shares	VWETX
Victory Portfolios III: Victory Income Fund; Fund Shares Class	USAIX
Wilmington Funds: Wilmington Broad Market Bond Fund; Institutional Class	WIBMX

## Lipper Absolute Return Bond Funds Index

Carillon Series Trust: Carillon Reams Unconstrained Bond Fund; Class I Shares	SUBFX
Columbia Funds Series Trust II: Columbia Mortgage Opportunities Fund; Institutional Class Shares	CLMZx
Guggenheim Funds Trust: Guggenheim Macro Opportunities Fund; Institutional Class Shares	GIOIX
JPMorgan Trust I: JPMorgan Strategic Income Opportunities Fund; Class I Shares	JSOSX
JPMorgan Trust I: JPMorgan Unconstrained Debt Fund; Class I Shares	JSISX
PIMCO Funds: PIMCO Dynamic Bond Fund; Institutional Class Shares	PFIUX
PIMCO Funds: PIMCO Mortgage Opportunities and Bond Fund; Institutional Class Shares	PMZIX
Prudential Investment Portfolios 9: PGIM Absolute Return Bond Fund; Class Z Shares	PADZX
T Rowe Price International Funds, Inc: T Rowe Price Dynamic Global Bond Fund; Class Z Shares	TRDZX
TCW Metropolitan West Funds: TCW MetWest Unconstrained Bond Fund; Class I Shares	MWCIX

## Lipper Alternative Credit Focus Funds Index

AIM Investment Securities Funds (Invesco Investment Securities Funds): Invesco Income Fund; Class A Shares	AGOVX
BlackRock Funds V: BlackRock Strategic Income Opportunities Portfolio; Institutional Shares	BSIIX
BNY Mellon Investment Funds II, Inc: BNY Mellon Yield Enhancement Strategy Fund; Class Y Shares	DABJX
GMO Trust: GMO Opportunistic Income Fund; Class VI Shares	GMODX
Goldman Sachs Trust: Goldman Sachs Dynamic Bond Fund; Institutional Shares	GSZIX
Manning & Napier Fund, Inc: Credit Series; Class W Shares	MCDWX
Northern Lights Fund Trust: Navigator Tactical Fixed Income Fund; Class I Shares	NTBIX
Putnam Diversified Income Trust; Class Y Shares	PDVYX
T Rowe Price International Funds, Inc: T Rowe Price Dynamic Credit Fund; Class Z Shares	TRCDX
Touchstone Funds Group Trust: Touchstone Ares Credit Opportunities Fund; Class Y Shares	TMAYX

---

**Lipper BBB Rated Funds Index**

AIM Investment Securities Funds (Invesco Investment Securities Funds): Invesco Corporate Bond Fund; CI A Shs	ACCBX
American Funds Corporate Bond Fund; Class A Shares	BFCAX
AMG Funds III: AMG GW&K ESG Bond Fund; Class N Shares	MGFIX
BlackRock Allocation Target Shares: Series C Portfolio	BRACX
BlackRock Funds: iShares US Intermediate Credit Bond Index Fund	BICBX
BlackRock Funds: iShares US Long Credit Bond Index Fund	BLCBX
BNY Mellon Funds Trust: BNY Mellon Corporate Bond Fund; Class M Shares	BYMMX
Calvert Fund: Calvert Income Fund; Class I Shares	CINCX
Columbia Funds Series Trust I: Columbia Corporate Income Fund; Institutional 3 Class Shares	CRIYX
Delaware Group Income Funds: Macquarie Corporate Bond Fund; Institutional Class Shares	DGCIX
Delaware Group Income Funds: Macquarie Extended Duration Bond Fund; Institutional Class Shares	DEEIX
DFA Investment Dimensions Group Inc: DFA Intermediate-Term Extended Quality Portfolio; Institutional Class S	DFTEX
DFA Investment Dimensions Group Inc: DFA Social Fixed Income Portfolio; Institutional Class Shares	DSFIX
Federated Hermes Income Securities Trust: Federated Hermes Intermediate Corporate Bond Fund; Institutional Shs	FIIFX
Federated Hermes Investment Series Funds, Inc: Federated Hermes Corporate Bond Fund; Institutional Shares	FDBIX
Fidelity Salem Street Trust: Fidelity Corporate Bond Fund	FCBFX
Fidelity Salem Street Trust: Fidelity Series Corporate Bond Fund	FHMFx
Legg Mason Partners Income Trust: Western Asset Corporate Bond Fund; Class I Shares	SIGYX
Legg Mason Partners Institutional Trust: Western Asset SMASh Series Core Completion Fund	WAADX
Loomis Sayles Funds II: Loomis Sayles Investment Grade Bond Fund; Class Y Shares	LSIIX
Lord Abbett Investment Trust: Lord Abbett Income Fund; Class I Shares	LAUYX
MFS Series Trust IX: MFS Corporate Bond Fund; Class A Shares	MFBFX
Northern Lights Fund Trust: Navigator Tactical Investment Grade Bond Fund; Class I Shares	NTIIX
PIMCO Funds: PIMCO Extended Duration Fund; Institutional Class Shares	PEDIX
PIMCO Funds: PIMCO Investment Grade Credit Bond Fund; Class I-2 Shares	PBDPX
PIMCO Funds: PIMCO Long Duration Total Return Fund; Institutional Class Shares	PLRIX
Russell Investment Company: Strategic Bond Fund; Class S Shares	RFCTX
SEI Institutional Investments Trust: Long Duration Fund; Class A Shares	LDRAX
T Rowe Price Corporate Income Fund, Inc; Class Z Shares	TRZCX
Thrivent Mutual Funds: Thrivent Income Fund; Class S Shares	LBIIX

---

**Lipper Core Bond Funds Index**

American Century Investment Trust: Diversified Bond Fund; Class G Shares	ACDOX
Baird Funds, Inc: Baird Aggregate Bond Fund; Institutional Class Shares	BAGIX
BlackRock Bond Fund, Inc: BlackRock Total Return Fund; Institutional Shares	MAHQX
Bond Fund of America; A	ABNDX
Columbia Funds Series Trust I: Columbia Multi-Manager Total Return Bond Strategies Fund; Institutional CI Shs	CTRZX
DFA Investment Dimensions Group Inc: DFA Investment Grade Portfolio	DFAPX
Dodge & Cox Funds: Dodge & Cox Income Fund; Class I Shares	DODIX
Federated Hermes Total Return Series, Inc: Federated Hermes Total Return Bond Fund; Institutional Shares	FTRBX
Fidelity Income Fund: Fidelity Total Bond Fund	FTBFX
Fidelity Salem Street Trust: Fidelity Investment Grade Bond Fund	FBNDX
Fidelity Salem Street Trust: Fidelity SAI Total Bond Fund	FSMTX
Fidelity Salem Street Trust: Fidelity Series Bond Index Fund	FIFZX
Fidelity Salem Street Trust: Fidelity Series Investment Grade Bond Fund	FSIGX
Fidelity Salem Street Trust: Fidelity US Bond Index Fund	FXNAX
JPMorgan Trust II: JPMorgan Core Bond Fund; Class R6 Shares	JCBUX
MFS Series Trust IX: MFS Total Return Bond Fund; Class R6 Shares	MRBKX
Principal Funds, Inc: Core Fixed Income Fund; Class R-6 Shares	PICNX
Schwab Investments: Schwab US Aggregate Bond Index Fund	SWAGX
SEI Institutional Investments Trust: Core Fixed Income Fund; Class A Shares	SCOAX
T Rowe Price New Income Fund, Inc; Class Z Shares	TRVZX
TIAA-CREF Funds: Nuveen Bond Index Fund; Class R6 Shares	TBIIX
TIAA-CREF Funds: Nuveen Core Bond Fund; Class W Shares	TBBWX
TIAA-CREF Funds: Nuveen Core Impact Bond Fund; Class R6 Shares	TSBIX
Vanguard Bond Index Funds: Vanguard Intermediate-Term Bond Index Fund; Admiral Shares	VBILX
Vanguard Bond Index Funds: Vanguard Total Bond Market II Index Fund; Investor Shares	VTBIX
Vanguard Bond Index Funds: Vanguard Total Bond Market Index Fund; Admiral Shares	VBTLX
Vanguard Fixed Income Securities Funds: Vanguard Intermediate-Term Investment-Grade Fund; Admiral Shares	VFIDX
Vanguard Malvern Funds: Vanguard Core Bond Fund; Admiral Class Shares	VCOBX
Voya Funds Trust: Voya Intermediate Bond Fund; Class I Shares	IICIX
Western Asset Funds, Inc: Western Asset Core Bond Fund; Class I Shares	WATFX

## Lipper Core Plus Bond Funds Index

AB Bond Fund, Inc: AB Income Fund; Advisor Class Shares	ACGYX
AIM Counselor Series Trust (Invesco Counselor Series Trust): Invesco Core Plus Bond Fund; Class R6 Shares	CPBFX
Allspring Funds Trust: Allspring Core Plus Bond Fund; Institutional Class Shares	WIPIX
American Funds Strategic Bond Fund; Class A Shares	ANBAX
Baird Funds, Inc: Baird Core Plus Bond Fund; Institutional Class Shares	BCOIX
BNY Mellon Absolute Funds, Inc.: BNY Mellon Core Plus Fund; Class I Shares	DCPIX
Bridge Builder Trust: Bridge Builder Core Plus Bond Fund	BBCPX
Brinker Capital Destinations Trust: Destinations Core Fixed Income Fund; Class I Shares	DCFFX
Carillon Series Trust: Carillon Reams Core Plus Bond Fund; Class I Shares	SCPZX
Delaware Group Adviser Funds: Macquarie Diversified Income Fund; Institutional Class Shares	DPFFX
DoubleLine Funds Trust: DoubleLine Core Fixed Income Fund; Class I Shares	DBLFX
Empower Funds, Inc: Empower Core Strategies Flexible Bond Fund; Investor Class Shares	MXEWX
Financial Investors Trust: ALPS/Smith Total Return Bond Fund; Class I Shares	SMTHX
Franklin Investors Securities Trust: Franklin Total Return Fund; Class A Shares	FKBAX
Frost Family of Funds: Frost Total Return Bond Fund; Institutional Class Shares	FIJEX
Guggenheim Funds Trust: Guggenheim Total Return Bond Fund; Institutional Class Shares	GIBIX
Janus Investment Fund: Janus Henderson Flexible Bond Fund; Class I Shares	JFLEX
John Hancock Sovereign Bond Fund: John Hancock Bond Fund; Class I Shares	JHBIX
JPMorgan Trust II: JPMorgan Core Plus Bond Fund; Class R6 Shares	JCPUX
Natixis Funds Trust I: Loomis Sayles Core Plus Bond Fund; Class Y Shares	NERYX
Optimum Fund Trust: Optimum Fixed Income Fund; Institutional Class Shares	OIFIX
PIMCO Funds: PIMCO Total Return ESG Fund; Institutional Class Shares	PTSAX
PIMCO Funds: PIMCO Total Return Fund; Institutional Class Shares	PTTRX
Principal Funds, Inc: Bond Market Index Fund; Institutional Class Shares	PNIIX
Prudential Investment Portfolios, Inc 17: PGIM Total Return Bond Fund; Class Z Shares	PDBZX
TCW Metropolitan West Funds: TCW MetWest Total Return Bond Fund; Class I Shares	MWTIX
TIAA-CREF Funds: Nuveen Core Plus Bond Fund; Class R6 Shares	TIBFX
Trust for Professional Managers: Performance Trust Total Return Bond Fund; Institutional Class Shares	PTIAX
Victory Portfolios III: Victory Core Plus Intermediate Bond Fund; Institutional Shares Class	UIITX
Western Asset Funds, Inc: Western Asset Core Plus Bond Fund; Class I Shares	WACPX

---

**Lipper Emerging Market Hard Currency Debt Funds Index**

American Beacon Funds: American Beacon Developing World Income Fund; Class Y Shares	AGEYX
American Century International Bond Funds: Emerging Markets Debt Fund; Class G Shares	AEDGX
American Funds Emerging Markets Bond Fund; Class F3 Shares	EBNGX
Ashmore Funds: Ashmore Emerging Markets Total Return Fund; Institutional Class Shares	EMKIX
Columbia Funds Series Trust II: Columbia Emerging Markets Bond Fund; Institutional 3 Class Shares	CEBYX
DoubleLine Funds Trust: DoubleLine Emerging Markets Fixed Income Fund; Class I Shares	DBLEX
DoubleLine Funds Trust: DoubleLine Low Duration Emerging Markets Fixed Income Fund; Class I Shares	DBLLX
Fidelity Hastings Street Trust: Fidelity Series Emerging Markets Debt Fund	FEDCX
Fidelity Summer Street Trust: Fidelity Advisor New Markets Income Fund; Class Z Shares	FGBMX
GMO Trust: GMO Emerging Country Debt Fund; Class III Shares	GMCDX
Goldman Sachs Trust: Goldman Sachs Emerging Markets Debt Fund; Institutional Shares	GSDIX
JPMorgan Trust I: JPMorgan Emerging Markets Debt Fund; Class R6 Shares	JEMVX
MFS Series Trust X: MFS Emerging Markets Debt Fund; Class I Shares	MEDIX
Neuberger Berman Income Funds: Neuberger Berman Emerging Markets Debt Fund; Institutional Class Shares	NERIX
Payden & Rygel Investment Group: Payden Emerging Markets Bond Fund; SI Class Shares	PYEIX
PIMCO Funds: PIMCO Emerging Markets Bond Fund; Institutional Class Shares	PEBIX
PIMCO Funds: PIMCO Emerging Markets Full Spectrum Bond Fund; Institutional Class Shares	PFSIX
Principal Funds, Inc: Finisterre Emerging Markets Total Return Bond Fund; Institutional Class Shares	PFUMX
Prudential World Fund, Inc: PGIM Emerging Markets Debt Hard Currency Fund; Class R6 Shares	PDHGX
SEI Institutional International Trust: Emerging Markets Debt Fund; Class F Shares	SITEX
SEI Institutional Investments Trust: Emerging Markets Debt Fund; Class A Shares	SEDAX
T Rowe Price International Funds, Inc: T Rowe Price Emerging Markets Bond Fund; Class Z Shares	TREZX
T Rowe Price International Funds, Inc: T Rowe Price Emerging Markets Corporate Bond Fund; Class I Shares	TECIX
TCW Funds, Inc: TCW Emerging Markets Income Fund; Class I Shares	TGEIX
TIAA-CREF Funds: Nuveen Emerging Markets Debt Fund; Class W Shares	TEDVX
Transamerica Funds: Transamerica Emerging Markets Debt; Class I Shares	EMTIX
Vanguard Malvern Funds: Vanguard Emerging Markets Bond Fund; Admiral Class Shares	VEGBX
Vanguard Whitehall Funds: Vanguard Emerging Markets Government Bond Index Fund; Admiral Class Shares	VGAVX
Virtus Opportunities Turst: Virtus Stone Harbor Emerging Markets Debt Income Fund; Class I Shares	SHMDX
Voya Separate Portfolios Trust: Voya VACS Series EMHCD Fund	VVIQX

**Index Name    Full Fund Name****Nasdaq Symbol****Lipper Emerging Market Local Currency Debt Funds Index**

AIM Investment Funds (Invesco Investment Funds): Invesco Emerging Markets Local Debt Fund; Class Y Shs	OEMYX
Eaton Vance Mutual Funds Trust: Eaton Vance Emerging Markets Local Income Fund; Class I Shares	EELIX
Eaton Vance Series Fund Inc: Eaton Vance Emerging Markets Debt Opportunities Fund; Class I Shares	EIDOX
Fidelity Hastings Street Trust: Fidelity Series Emerging Markets Debt Local Currency Fund	FSEDX
MFS Series Trust X: MFS Emerging Markets Debt Local Currency Fund; Class R6 Shares	EMLNX
Payden & Rygel Investment Group: Payden Emerging Markets Local Bond Fund; SI Class Shares	PYILX
PIMCO Funds: PIMCO Emerging Markets Local Currency and Bond Fund; Institutional Class Shares	PELBX
Prudential World Fund, Inc: PGIM Emerging Markets Debt Local Currency Fund; Class Z Shares	EMDZX
T Rowe Price International Funds, Inc: T Rowe Price Emerging Markets Local Currency Bond Fund	PRELX
TCW Funds, Inc: TCW Emerging Markets Local Currency Income Fund; Class I Shares	TGWIX

**Lipper Flexible Income Funds Index**

Cohen & Steers Low Duration Preferred and Income Fund, Inc; Class I Shares	LPXIX
Cohen & Steers Preferred Securities and Income Fund, Inc; Class I Shares	CPXIX
Loomis Sayles Funds II: Loomis Sayles Strategic Income Fund; Class Y Shares	NEZYX
Nuveen Investment Trust V: Nuveen Flexible Income Fund; Class I Shares	NWQIX
Nuveen Investment Trust V: Nuveen Preferred Securities and Income Fund; Class I Shares	NPSRX
PIMCO Funds: PIMCO Preferred and Capital Securities Fund; Institutional Class Shares	PFINX
Principal Funds, Inc: Capital Securities Fund; Class S Shares	PCSFX
Principal Funds, Inc: Spectrum Preferred and Capital Securities Income Fund; Institutional Class Shares	PPSIX
Touchstone Strategic Trust: Touchstone Flexible Income Fund; Class Y Shares	MXIIX
Two Roads Shared Trust: Holbrook Income Fund; Class I Shares	HOBIX

---

**Lipper General Bond Funds Index**

AB Bond Fund, Inc: AB Sustainable Thematic Credit Portfolio; Advisor Class Shares	STHYX
American Century ETF Trust: Avantis Core Fixed Income Fund; Class G Shares	AVBNX
American Pension Investors Trust: Yorktown Multi-Sector Bond Fund; Institutional Class Shares	APIIX
Axonic Funds: Axonic Strategic Income Fund; Class I Shares	AXSIX
BBH Trust: BBH Income Fund; Class I Shares	BBNIX
BlackRock Funds III: BlackRock Diversified Fixed Income Fund; Class K Shares	BDVFX
Catholic Responsible Investments Funds: Catholic Responsible Investments Bond Fund; Institutional Class Shares	CRBSX
Catholic Responsible Investments Funds: Catholic Responsible Investments Opportunistic Bond Fund; Inst Cl	CROXS
Datum One Series Trust: Brandes Separately Managed Account Reserve Trust	SMARX
Exchange Place Advisors Trust: North Square McKee Bond Fund; Class R6 Shares	NMKBX
Fidelity Rutland Square Trust II: Strategic Advisers Core Income Fund	FPCIX
Fidelity Rutland Square Trust II: Strategic Advisers Fidelity Core Income Fund	FIWGX
GMO Trust: GMO Asset Allocation Bond Fund; Class VI Shares	GABFX
Harris Associates Investment Trust: Oakmark Bond Fund; Class R6 Shares	OAZCX
Legg Mason Partners Institutional Trust: Western Asset SMASh Series C Fund	LMLCX
Loomis Sayles Funds I: Loomis Sayles Bond Fund; Institutional Class	LSBDX
Morningstar Funds Trust: Morningstar Total Return Bond Fund; Institutional Class Shares	MSTRX
Northern Lights Fund Trust: PFG BNY Mellon Diversifier Strategy Fund; Class R Shares	PFADX
Perpetual Americas Funds Trust: Barrow Hanley Total Return Bond Fund; Institutional Class Shares	BTRIX
PIMCO Funds: PIMCO Long-Term Credit Bond Fund; Institutional Class Shares	PTCIX
RBB Fund, Inc.: Oakhurst Fixed Income Fund; Institutional Class Shares	OHFIX
RBC Funds Trust: RBC BlueBay Impact Bond Fund; Class I Shares	RIBIX
RiverNorth Funds: RiverNorth/DoubleLine Strategic Income Fund; Class I Shares	RNSIX
RiverNorth Funds: RiverNorth/Oaktree High Income Fund; Class I Shares	RNHIX
Russell Investment Company: Long Duration Bond Fund; Class Y Shares	RMHYX
Starboard Investment Trust: Matisse Discounted Bond CEF Strategy; Institutional Class Shares	MDFIX
Symmetry Panoramic Trust: Symmetry Panoramic US Systematic Fixed Income Fund; Class I Shares	SPUBX
Trust for Professional Managers: CrossingBridge Responsible Credit Fund; Institutional Class Shares	CBRDx
Trust for Professional Managers: CrossingBridge Ultra-Short Duration Fund; Institutional Class Shares	CBUDX
Trust for Professional Managers: Performance Trust Multisector Bond Fund; Institutional Class Shares	PTCRX

**Index Name    Full Fund Name****Nasdaq Symbol****Lipper General U.S. Government Funds Index**

Allspring Funds Trust: Allspring Government Securities Fund; Class A Shares	SGV DX
American Funds Income Series: US Government Securities Fund; Class R6 Shares	RGV GX
BlackRock Funds: iShares US Long Government Bond Index Fund	BLGBX
Fidelity Income Fund: Fidelity Government Income Fund	FGOVX
HC Capital Trust: US Government Fixed Income Securities Portfolio; HC Strategic Class Shares	HCUSX
JPMorgan Trust II: JPMorgan Government Bond Fund; Class A Shares	OGGAX
Morgan Stanley Long Duration Government Opportunities Fund; Class A Shares	USGAX
PIMCO Funds: PIMCO Long-Term US Government Fund; Institutional Class Shares	PGOVX
Sit US Government Securities Fund; Class S Shares	SNGVX
WesMark Funds: WesMark Government Bond Fund	WMBDX

**Lipper General U.S. Treasury Funds Index**

Columbia Funds Series Trust I: Columbia US Treasury Index Fund; Institutional 3 Class Shares	CUTYX
Fidelity Salem Street Trust: Fidelity Intermediate Treasury Bond Index Fund	FUAMX
Fidelity Salem Street Trust: Fidelity Long-Term Treasury Bond Index Fund	FNBGX
Fidelity Salem Street Trust: Fidelity SAI Long-Term Treasury Bond Index Fund	FBLTX
Fidelity Salem Street Trust: Fidelity SAI US Treasury Bond Index Fund	FUTBX
Fidelity Salem Street Trust: Fidelity Series Long-Term Treasury Bond Index Fund	FTLTX
T Rowe Price US Treasury Funds, Inc: US Treasury Intermediate Index Fund	PTITX
T Rowe Price US Treasury Funds, Inc: US Treasury Long-Term Index Fund; Class Z Shares	TRZUX
Vanguard Fixed Income Securities Funds: Vanguard Intermediate-Term Treasury Fund; Admiral Shares	VFIUX
Vanguard Fixed Income Securities Funds: Vanguard Long-Term Treasury Fund; Admiral Shares	VUSUX

**Lipper Global High Yield Funds Index**

AB High Income Fund, Inc; Advisor Class Shares	AGDYX
American Beacon Funds: American Beacon SiM High Yield Opportunities Fund; Class Y Shares	SHOYX
City National Rochdale Funds: City National Rochdale Fixed Income Opportunities Fund; Class N Shares	RIMOX
Deutsche DWS Income Trust: DWS Global High Income Fund; Institutional Class Shares	MGHYX
Fidelity Summer Street Trust: Fidelity SAI High Income Fund	FSHGX
FundVantage Trust: Polen Opportunistic High Yield Fund; Class Y Shares	DDJIX
PACE Select Advisors Trust: PACE High Yield Investments; Class P Shares	PHYPX
T Rowe Price High Yield Fund, Inc	PRHYX
T Rowe Price Institutional Income Funds, Inc: T Rowe Price Institutional High Yield Fund	TRHYX
T Rowe Price International Funds, Inc: T Rowe Price Global High Income Bond Fund; Class I Shares	RPOIX



## Lipper Global Income Funds Index

1290 Funds: 1290 Diversified Bond Fund; Class I Shares	TNUIX
AB Global Bond Fund, Inc; Advisor Class Shares	ANAYX
AIM Investment Funds (Invesco Investment Funds): Invesco Global Strategic Income Fund; Cls A Shs	OPSIX
American Century International Bond Funds: Global Bond Fund; Class G Shares	AGBGX
BlackRock Strategic Global Bond Fund, Inc; Institutional Shares	MAWIX
BNY Mellon Investment Funds I: BNY Mellon Global Fixed Income Fund; Class I Shares	SDGIX
Capital World Bond Fund; Class A Shares	CWBFX
DFA Investment Dimensions Group Inc: DFA Five-Year Global Fixed Income Portfolio; Institutional Class Shares	DFGBX
DFA Investment Dimensions Group Inc: DFA Global Core Plus Fixed Income Portfolio; Institutional Class Shares	DGCFX
DFA Investment Dimensions Group Inc: DFA Global Sustainability Fixed Income Portfolio; Instl Class Share	DGSFX
DFA Investment Dimensions Group Inc: DFA Selectively Hedged Global Fixed Income Portfolio	DFSHX
DFA Investment Dimensions Group Inc: DFA Two-Year Global Fixed Income Portfolio; Institutional Class Shares	DFGFX
Dodge & Cox Funds: Dodge & Cox Global Bond Fund; Class I Shares	DODLX
Empower Funds, Inc: Empower Global Bond Fund; Institutional Class Shares	MXZMX
Goldman Sachs Trust: Goldman Sachs Global Core Fixed Income Fund; Class R6 Shares	GBIUX
GuideStone Funds: Global Bond Fund; Institutional Class Shares	GGBEX
Hartford Mutual Funds, Inc: Hartford World Bond Fund; Class F Shares	HWDFX
JPMorgan Trust I: JPMorgan Global Bond Opportunities Fund; Class I Shares	GBOSX
Legg Mason Global Asset Management Trust: BrandywineGLOBAL - Global Opportunities Bond Fund; Class I Shares	GOBIX
Legg Mason Partners Institutional Trust: Western Asset SMASh Series Core Plus Completion Fund	LMECX
Legg Mason Partners Institutional Trust: Western Asset SMASh Series M Fund	LMSMX
MFS Series Trust X: MFS Global Opportunistic Bond Fund; Class R6 Shares	MGBOX
Morgan Stanley Global Fixed Income Opportunities Fund; Class I Shares	DINDX
PGIM Global Total Return Fund; Class R6 Shares	PGTQX
PIMCO Funds: PIMCO Global Bond Opportunities Fund (US Dollar-Hedged); Institutional Class Shares	PGBIX
SA Funds - Investment Trust: SA Global Fixed Income Fund	SAXIX
Symmetry Panoramic Trust: Symmetry Panoramic Global Systematic Fixed Income Fund; Class I Shares	SPGBX
T Rowe Price Global Multi-Sector Bond Fund	PRSNX
Templeton Income Trust: Templeton Global Bond Fund; Class A Shares	TPINX
Vanguard Charlotte Funds: Vanguard Global Credit Bond Fund; Admiral Class Shares	VGCAX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper GNMA Funds Index**

American Century Government Income Trust: Ginnie Mae Fund; Investor Class Shares	BGNMX
BNY Mellon US Mortgage Fund, Inc.; Class Z Shares	DRGMX
Deutsche DWS Income Trust: DWS GNMA Fund; Class S Shares	SGINX
Fidelity Income Fund: Fidelity GNMA Fund	FGMNX
Franklin Custodian Funds: Franklin US Government Securities Fund; Class A1 Shares	FKUSX
PIMCO Funds: PIMCO GNMA and Government Securities Fund; Institutional Class Shares	PDMIX
T Rowe Price GNMA Fund	PRGMX
Vanguard Fixed Income Securities Funds: Vanguard GNMA Fund; Investor Shares	VFIIX
Victory Portfolios: Victory Fund for Income; Class I Shares	VFFIX
Voya Funds Trust: Voya GNMA Income Fund; Class A Shares	LEXNX

**Lipper High Current Yield Bond Funds Index**

American Century Investment Trust: High Income Fund; Class G Shares	ACHFX
American High-Income Trust; Class A Shares	AHITX
Artisan Partners Funds, Inc: Artisan High Income Fund; Advisor Shares	APDFX
BlackRock Funds V: BlackRock High Yield Portfolio; Institutional Shares	BHYIX
Eaton Vance Series Trust II: Eaton Vance Income Fund of Boston; Institutional Shares	EIBIX
Federated Hermes Institutional Trust: Federated Hermes Institutional High Yield Bond Fund; Institutional Shs	FIHBX
Fidelity Advisor Series I: Fidelity Advisor Capital & Income Fund; Class I Shares	FAHCX
Fidelity Rutland Square Trust II: Strategic Advisers Income Opportunities Fund	FPIOX
Fidelity Summer Street Trust: Fidelity Capital & Income Fund	FAGIX
Fidelity Summer Street Trust: Fidelity High Income Fund	SPHIX
Fidelity Summer Street Trust: Fidelity Series High Income Fund	FSHNX
Franklin High Income Trust: Franklin High Income Fund; Class A1 Shares	FHAIX
Goldman Sachs Trust: Goldman Sachs High Yield Fund; Class P Shares	GGMPX
Ivy Funds: Macquarie High Income Fund; Institutional Class Shares	IVHIX
Legg Mason Partners Investment Trust: BrandywineGLOBAL - Corporate Credit Fund; Class I Shares	BCGIX
Legg Mason Partners Investment Trust: BrandywineGLOBAL - High Yield Fund; Class I Shares	BGHIX
Lord Abbett Investment Trust: Lord Abbett High Yield Fund; Class I Shares	LAHYX
MFS Series Trust III: MFS High Income Fund; Class R6 Shares	MHIKX
New York Life Investments Funds: NYLI MacKay High Yield Corporate Bond Fund; Class I Shares	MHYIX
Northern Funds: High Yield Fixed Income Fund	NHFIX
Northern Lights Fund Trust III: Counterpoint Tactical Income Fund; Class I Shares	CPITX
Northern Lights Fund Trust: Ocean Park Tactical Bond Fund; Institutional Class Shares	STBJX
PIMCO Funds: PIMCO High Yield Fund; Institutional Class Shares	PHIYX
Principal Funds, Inc: High Income Fund; Institutional Class Shares	PYHIX
Principal Funds, Inc: High Yield Fund; Institutional Class Shares	PHYTX
Prudential Investment Portfolios, Inc 15: PGIM High Yield Fund; Class Z Shares	PHYZX
SEI Institutional Investments Trust: High Yield Bond Fund; Class A Shares	SGYAX
SEI Institutional Managed Trust: High Yield Bond Fund; Class F Shares	SHYAX
TIAA-CREF Funds: Nuveen High Yield Fund; Class R6 Shares	TIHYX
Vanguard Fixed Income Securities Funds: Vanguard High-Yield Corporate Fund; Admiral Shares	VWEAX

---

**Lipper Inflation Protected Bond Funds Index**

AB Bond Fund, Inc: AB Bond Inflation Strategy; Class 1 Shares	ABNOX
AIM Investment Securities Funds (Invesco Investment Securities Funds): Invesco Sh Dur Infl Prot Fd; CI R6 Shs	SDPSX
American Century Government Income Trust: Inflation-Adjusted Bond Fund; Investor Class Shares	ACITX
American Century Investment Trust: Short Duration Inflation Protection Bond Fund; Class I Shares	APOHX
American Funds Inflation Linked Bond Fund; Class R6 Shares	RILFX
BlackRock Funds V: BlackRock Inflation Protected Bond Portfolio; Institutional Shares	BPRIX
DFA Investment Dimensions Group Inc: DFA Inflation-Protected Securities Portfolio; Institutional Class Shares	DIPSX
DFA Investment Dimensions Group Inc: DFA LTIP Portfolio; Institutional Class Shares	DRXIX
DFA Investment Dimensions Group Inc: DFA Short-Duration Real Return Portfolio; Institutional Class Shares	DFAIX
Eaton Vance Special Investment Trust: Eaton Vance Short Duration Inflation-Protected Income Fund; Class I Shs	EIRRX
Empower Funds, Inc: Empower Core Strategies Inflation-Protected Securities Fund; Investor Class Shares	MXEYX
Empower Funds, Inc: Empower Inflation-Protected Securities Fund; Institutional Class Shares	MXIOX
Fidelity Salem Street Trust: Fidelity Inflation-Protected Bond Index Fund	FIPDX
Fidelity Salem Street Trust: Fidelity Series 0-5 Year Inflation-Protected Bond Index Fund	FSTZX
Fidelity Salem Street Trust: Fidelity Series 5+ Year Inflation-Protected Bond Index Fund	FSTDY
Lord Abbett Investment Trust: Lord Abbett Inflation Focused Fund; Class I Shares	LIFIX
MFS Series Trust IX: MFS Inflation-Adjusted Bond Fund; Class R6 Shares	MIAXX
PIMCO Funds: PIMCO Long-Term Real Return Fund; Institutional Class Shares	PRAIX
PIMCO Funds: PIMCO Real Return Fund; Institutional Class Shares	PRRIX
PIMCO Managed Accounts Trust: Fixed Income SHares Series R	FXIRX
Principal Funds, Inc: Inflation Protection Fund; Institutional Class Shares	PIPIX
Schwab Investments: Schwab Treasury Inflation Protected Securities Index Fund	SWRSX
SEI Institutional Investments Trust: Real Return Fund; Class A Shares	RRPAX
SEI Institutional Managed Trust: Real Return Fund; Class F Shares	SRAAX
T Rowe Price Index Trust, Inc: T Rowe Price US Limited Duration TIPS Index Fund; Class I Shares	TLDUX
T Rowe Price Inflation Protected Bond Fund, Inc	PRIPX
T Rowe Price Limited Duration Inflation Focused Bond Fund; Class I Shares	TRLDX
TIAA-CREF Funds: Nuveen Inflation Linked Bond Fund; Class R6 Shares	TIILX
Vanguard Bond Index Funds: Vanguard Inflation-Protected Securities Fund; Admiral Shares	VAIPX
Vanguard Malvern Funds: Vanguard Short-Term Inflation-Protected Securities Index Fund; Institutional Class Shs	VTSPX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Intermediate U.S. Government Funds Index**

American Century Government Income Trust: Government Bond Fund; Investor Class Shares	CPTNX
American Funds Mortgage Fund; Class R6 Shares	RMAGX
BlackRock Funds: iShares US Intermediate Government Bond Index Fund	BIGBX
DFA Investment Dimensions Group Inc: DFA Intermediate Government Fixed Income Portfolio; Institutional CI Shs	DFIGX
Federated Hermes Total Return Government Bond Fund; Institutional Shares	FTRGX
Fidelity Income Fund: Fidelity Series Government Bond Index Fund	FHNFX
Homestead Funds Trust: Intermediate Bond Fund	HOIBX
MFS Series Trust XIII: MFS Government Securities Fund; Class R6 Shares	MFGKX
Vanguard Scottsdale Funds: Vanguard Intermediate-Term Treasury Index Fund; Admiral Class Shares	VSIGX
Victory Portfolios III: Victory Government Securities Fund; Fund Shares Class	USGNX

**Lipper International Income Funds Index**

AIM Investment Funds (Invesco Investment Funds): Invesco International Bond Fund; Class Y Shares	OIBYX
DFA Investment Dimensions Group Inc: DFA World ex US Govt Fixed Income Portfolio; Institutional Class Shares	DWFIX
Fidelity Salem Street Trust: Fidelity International Bond Index Fund	FBIIX
Fidelity School Street Trust: Fidelity Series International Developed Markets Bond Index Fund	FSTQX
PIMCO Funds: PIMCO International Bond Fund (Unhedged); Institutional Class Shares	PFUIX
PIMCO Funds: PIMCO International Bond Fund (US Dollar-Hedged); Institutional Class Shares	PFORX
T Rowe Price International Funds, Inc: T Rowe Price International Bond Fund (USD Hedged);Class Z Shares	TRMZX
T Rowe Price International Funds, Inc: T Rowe Price International Bond Fund; Class I Shares	RPISX
Vanguard Charlotte Funds: Vanguard Total International Bond II Index Fund; Institutional Class Shares	VTILX
Vanguard Charlotte Funds: Vanguard Total International Bond Index Fund; Admiral Class Shares	VTABX

## Lipper Loan Participation Funds Index

Advisors Series Trust: Shenkman Capital Floating Rate High Income Fund; Institutional Class Shares	SFHIX
AIM Counselor Series Trust (Invesco Counselor Series Trust): Invesco Floating Rate ESG Fund; Class Y Shares	AFRYX
AIM Counselor Series Trust (Invesco Counselor Series Trust): Invesco Senior Flt Rate Fd; Cls A Sh	OOSAX
Aristotle Funds Series Trust: Aristotle Floating Rate Income Fund; Class I Shares	PLFRX
BlackRock Funds V: BlackRock Floating Rate Income Portfolio; Institutional Shares	BFRIX
BNY Mellon Investment Funds IV, Inc: BNY Mellon Floating Rate Income Fund; Class Y Shares	DFLYX
Columbia Funds Series Trust II: Columbia Floating Rate Fund; Institutional Class Shares	CFRZX
Credit Suisse Opportunity Funds: Credit Suisse Floating Rate High Income Fund; Institutional Class Shares	CSHIX
Delaware Group Income Funds: Macquarie Floating Rate Fund; Institutional Class Shares	DDFLX
Eaton Vance Mutual Funds Trust: Eaton Vance Floating-Rate & High Income Fund; Institutional Class	EIFHX
Eaton Vance Mutual Funds Trust: Eaton Vance Floating-Rate Advantage Fund; Class I Shares	EIFAX
Eaton Vance Mutual Funds Trust: Eaton Vance Floating-Rate Fund; Institutional Class Shares	EIBLX
Federated Hermes Income Securities Trust: Federated Hermes Floating Rate Strategic Income Fund; Inst Shs	FFRSX
Fidelity Advisor Series I: Fidelity Floating Rate High Income Fund	FFRHX
Franklin Investors Securities Trust: Franklin Floating Rate Daily Access Fund; Class A Shares	FAFRX
Goldman Sachs Trust: Goldman Sachs High Yield Floating Rate Fund; Class P Shares	GGNPX
Guggenheim Funds Trust: Guggenheim Floating Rate Strategies Fund; Institutional Class Shares	GIFIX
Hartford Mutual Funds, Inc: Hartford Floating Rate Fund; Class I Shares	HFLIX
Investment Managers Series Trust: Palmer Square Income Plus Fund; Class I Shares	PSYPX
Lord Abbett Investment Trust: Lord Abbett Floating Rate Fund; Class I Shares	LFRIX
Mutual Fund Series Trust: Catalyst/CIFC Senior Secured Income Fund; Class I Shares	CFRIX
Natixis Funds Trust II: Loomis Sayles Senior Floating Rate and Fixed Income Fund; Class Y Shares	LSFYX
Neuberger Berman Income Funds: Neuberger Berman Floating Rate Income Fund; Institutional Class Shares	NFIIX
New York Life Investments Funds Trust: NYLI Floating Rate Fund; Class I Shares	MXFIX
Nuveen Investment Trust III: Nuveen Floating Rate Income Fund; Class I Shares	NFRIX
Prudential Investment Portfolios, Inc 14: PGIM Floating Rate Income Fund; Class Z Shares	FRFZX
T Rowe Price Floating Rate Fund, Inc	PRFRX
T Rowe Price Institutional Income Funds, Inc: T Rowe Price Institutional Floating Rate Fund	RPIFX
Victory Portfolios: Victory Floating Rate Fund; Class Y Shares	RSFYX
Virtus Asset Trust: Virtus Seix Floating Rate High Income Fund; Class I Shares	SAMBX

---

**Lipper Multi-Sector Income Funds Index**

American Funds Multi-Sector Income Fund; Class R6 Shares	RMDUX
Angel Oak Funds Trust: Angel Oak Multi-Strategy Income Fund; Institutional Class Shares	ANGIX
Aristotle Funds Series Trust: Aristotle Strategic Income Fund; Class I-2 Shares	PLSFX
BlackRock Allocation Target Shares: Series M Portfolio	BRAMX
Columbia Funds Series Trust I: Columbia Strategic Income Fund; Institutional Class Shares	LSIZX
DFA Investment Dimensions Group Inc: DFA Diversified Fixed Income Portfolio; Institutional Class Shares	DFXIX
Eaton Vance Mutual Funds Trust: Eaton Vance Strategic Income Fund; Class I Shares	ESIIX
Fidelity Advisor Series II: Fidelity Advisor Strategic Income Fund; Class A Shares	FSTAX
Franklin Strategic Series: Franklin Core Plus Bond Fund; Class A Shares	FRSTX
Hartford Mutual Funds, Inc: Hartford Strategic Income Fund; Class I Shares	HSNIX
Janus Investment Fund: Janus Henderson Multi-Sector Income Fund; Class I Shares	JMUIX
John Hancock Funds II: Strategic Income Opportunities Fund; Class I Shares	JIPIX
JPMorgan Trust I: JPMorgan Income Fund; Class I Shares	JMSIX
Lord Abbett Bond Debenture Fund, Inc; Class A Shares	LBNDX
Mercer Funds: Mercer Opportunistic Fixed Income Fund; Class Y-3 Shares	MOFIX
MFS Series Trust VIII: MFS Income Fund; Class I Shares	MFIIX
Neuberger Berman Income Funds: Neuberger Berman Strategic Income Fund; Institutional Class Shares	NSTLX
Northern Lights Fund Trust: Ocean Park Tactical Core Income Fund; Institutional Class Shares	SSIRX
Old Westbury Funds, Inc: Old Westbury Credit Income Fund	OWCIX
PIMCO Funds: PIMCO Diversified Income Fund; Institutional Class Shares	PDIIIX
PIMCO Funds: PIMCO Income Fund; Institutional Class Shares	PIMIX
PIMCO Managed Accounts Trust: Fixed Income SHares Series C	FXICX
PIMCO Managed Accounts Trust: Fixed Income SHares Series M	FXIMX
Pioneer Strategic Income Fund; Class Y Shares	STRYX
Principal Funds, Inc: Diversified Income Fund; Institutional Class Shares	PGDIX
Professionally Managed Portfolios: Osterweis Strategic Income Fund	OSTIX
RBB Fund, Inc: Free Market Fixed Income Fund; Institutional Class Shares	FMFIX
T Rowe Price Spectrum Fund, Inc: Spectrum Income Fund	RPSIX
Thornburg Investment Trust: Thornburg Strategic Income Fund; Class I Shares	TSIIX
Voya Funds Trust: Voya Strategic Income Opportunities Fund; Class I Shares	IISIX

**Lipper Short Investment Grade Bond Funds Index**

AIM Investment Securities Funds (Invesco Investment Securities Funds): Invesco Short Term Bond Fd; Class A Shs	STBAX
Baird Funds, Inc: Baird Short-Term Bond Fund; Institutional Class Shares	BSBIX
BBH Trust: BBH Limited Duration Fund; Class I Shares	BBBIX
BlackRock Funds V: BlackRock Low Duration Bond Portfolio; Institutional Shares	BFMSX
Calvert Fund: Calvert Short Duration Income Fund; Class I Shares	CDSIX
DFA Investment Dimensions Group Inc: DFA Short-Term Extended Quality Portfolio; Institutional Class Shares	DFEQX
Diamond Hill Funds: Diamond Hill Short Duration Securitized Bond Fund; Class I Shares	DHEIX
DoubleLine Funds Trust: DoubleLine Low Duration Bond Fund; Class I Shares	DBLSX
Fidelity Rutland Square Trust II: Strategic Advisers Short Duration Fund	FAUDX
Fidelity Salem Street Trust: Fidelity SAI Low Duration Bond Fund	FZOLX
Fidelity Salem Street Trust: Fidelity SAI Short Term Bond Fund	FZOMX
Fidelity Salem Street Trust: Fidelity Short-Term Bond Fund	FSHBX
Franklin Investors Securities Trust: Franklin Low Duration Total Return Fund; Class A Shares	FLDAX
Guggenheim Funds Trust: Guggenheim Limited Duration Fund; Institutional Class Shares	GILHX
JPMorgan Trust I: JPMorgan Short Duration Core Plus Fund; Class R6 Shares	JSDRX
JPMorgan Trust II: JPMorgan Short Duration Bond Fund; Class R6 Shares	JSDUX
Lord Abbett Investment Trust: Lord Abbett Short Duration Income Fund; Class A Shares	LALDX
MFS Series Trust IX: MFS Limited Maturity Fund; Class R6 Shares	MQLKX
PIMCO Funds: PIMCO Low Duration Fund; Institutional Class Shares	PTLDX
PIMCO Funds: PIMCO Low Duration Income Fund; Class I-2 Shares	PFTPX
Principal Funds, Inc: Short-Term Income Fund; Institutional Class Shares	PSHIX
Schwab Investments: Schwab Short-Term Bond Index Fund	SWSBX
SEI Institutional Investments Trust: Limited Duration Bond Fund; Class A Shares	SLDBX
T Rowe Price Short-Term Bond Fund, Inc	PRWBX
TCW Metropolitan West Funds: TCW MetWest Low Duration Bond Fund; Class I Shares	MWLIX
Thrivent Mutual Funds: Thrivent Limited Maturity Bond Fund; Class S Shares	THLIX
TIAA-CREF Funds: Nuveen Short Term Bond Index Fund; Class W Shares	TTBWX
Vanguard Fixed Income Securities Funds: Vanguard Short-Term Investment-Grade Fund; Admiral Shares	VFSUX
Vanguard Malvern Funds: Vanguard Institutional Short-Term Bond Fund; Institutional Plus Shares	VISTX
Victory Portfolios III: Victory Short-Term Bond Fund; Institutional Shares Class	UISBX



**Index Name    Full Fund Name****Nasdaq Symbol****Lipper Short U.S. Government Funds Index**

Allspring Funds Trust: Allspring Short Duration Government Bond Fund; Institutional Class Shares	WSGIX
American Century Government Income Trust: Short-Term Government Fund; Investor Class Shares	TWUSX
BNY Mellon Funds Trust: BNY Mellon Short-Term US Government Securities Fund; Class M Shares	MPSUX
Dimensional Investment Group Inc: DFA Two-Year Government Portfolio	DFYGX
Eaton Vance Mutual Funds Trust: Eaton Vance Short Duration Government Income Fund; Class I Shares	EILDY
Franklin Investors Securities Trust: Franklin Low Duration US Government Securities Fund; Class A Shares	FISAX
Goldman Sachs Trust: Goldman Sachs Short Duration Government Fund; Institutional Shares	GSTGX
SEI Daily Income Trust: Short-Duration Government Fund; Class F Shares	TCSGX
Short-Term Bond Fund of America; Class A Shares	ASBAX
Vanguard Fixed Income Securities Funds: Vanguard Short-Term Federal Fund; Admiral Shares	VSGDX

**Lipper Short U.S. Treasury Funds Index**

Advisers Investment Trust: State Farm Interim Fund	SFITX
Fidelity Salem Street Trust: Fidelity Short-Term Treasury Bond Index Fund	FUMBX
GMO Trust: GMO US Treasury Fund	GUSTX
Goldman Sachs Trust: Goldman Sachs Strategic Volatility Premium Fund; Class P Shares	SVPBX
Manor Investment Funds, Inc: Bond Fund	MNRBX
Permanent Portfolio Family of Funds: Short-Term Treasury Portfolio; Class I Shares	PRTBX
US Global Investors Funds: US Government Ultra-Short Bond Fund	UGSDX
Vanguard Fixed Income Securities Funds: Vanguard Short-Term Treasury Fund; Admiral Shares	VFIRX
WisdomTree Digital Trust: WisdomTree Floating Rate Treasury Digital Fund	FLTTX
WisdomTree Digital Trust: WisdomTree Short-Term Treasury Digital Fund	WTSYX

**Lipper Short-Intermediate Investment Grade Debt Funds Index**

American Funds College Target Date Series: American Funds College Enrollment Fund; Class 529-A Shares	CENAX
American Funds Portfolio Series: American Funds Preservation Portfolio; Class A Shares	PPVAX
Baird Funds, Inc: Baird Intermediate Bond Fund; Institutional Class Shares	BIMIX
BlackRock Allocation Target Shares: Series S Portfolio	BRASX
BNY Mellon Funds Trust: BNY Mellon Intermediate Bond Fund; Class M Shares	MPIBX
Brown Advisory Funds: Brown Advisory Intermediate Income Fund; Investor Class Shares	BIAIX
Columbia Funds Series Trust II: Columbia Limited Duration Credit Fund; Institutional Class Shares	CLDZX
Delaware Group Limited-Term Government Funds: Macquarie Limited-Term Diversified Income Fd; Class A Shares	DTRIX
DFA Investment Dimensions Group Inc: DFA Targeted Credit Portfolio; Institutional Class Shares	DTCPX
Fidelity Advisor Series II: Fidelity Limited Term Bond Fund	FJRLX
Fidelity Salem Street Trust: Fidelity Intermediate Bond Fund	FTHRX
Fidelity Salem Street Trust: Fidelity Short-Term Bond Index Fund	FNSOX
Financial Investors Trust: ALPS/Smith Short Duration Bond Fund; Class I Shares	SMDSX
Frost Family of Funds: Frost Low Duration Bond Fund; Institutional Class Shares	FILDX
Goldman Sachs Trust: Goldman Sachs Short Duration Bond Fund; Class P Shares	GMCPX
Intermediate Bond Fund of America; Class A Shares	AIBAX
Johnson Mutual Funds Trust: Johnson Institutional Intermediate Bond Fund; Class I Shares	JIBEX
LKCM Funds: LKCM Fixed Income Fund; Institutional Class Shares	LKFIX
Old Westbury Funds, Inc: Old Westbury Fixed Income Fund	OWFIX
PGIM Short-Term Corporate Bond Fund; Class Z Shares	PIFZX
PIMCO Funds: PIMCO Moderate Duration Fund; Institutional Class Shares	PMDRX
Prudential Investment Portfolios, Inc 17: PGIM Short Duration Multi-Sector Bond Fund; Class R6 Shares	SDMQX
TCW Metropolitan West Funds: TCW MetWest Intermediate Bond Fund; Class I Shares	MWIIIX
Thompson IM Funds, Inc: Thompson Bond Fund	THOPX
Thornburg Investment Trust: Thornburg Limited Term Income Fund; Class I Shares	THIIX
Transamerica Funds: Transamerica Short-Term Bond; Class I Shares	TSTIX
Tributary Funds, Inc: Tributary Short-Intermediate Bond Fund; Institutional Plus Class Shares	FOSPX
Vanguard Malvern Funds: Vanguard Institutional Intermediate-Term Bond Fund; Institutional Plus Shares	VIITX
Virtus Opportunities Trust: Virtus Newfleet Multi-Sector Short Term Bond Fund; Class I Shares	PIMSX
World Funds Trust: Curasset Capital Management Limited Term Income Fund; Founders Class Shares	CMIFX

**Lipper Short-Intermediate US Government Funds Index**

DFA Investment Dimensions Group Inc: DFA Short-Term Government Portfolio; Institutional Class Shares	DFFGX
Eaton Vance Mutual Funds Trust: Eaton Vance Government Opportunities Fund; Class A Shares	EVGOX
Federated Hermes Short-Intermediate Government Fund; Institutional Shares	FIGTX
Fidelity Advisor Series IV: Fidelity Limited Term Government Fund	FFXSX
Fidelity Income Fund: Intermediate Government Income Fund	FSTGX
Loomis Sayles Funds II: Loomis Sayles Limited Term Government and Agency Fund; Class A Shares	NEFLX
Northern Funds: Limited Term US Government Fund	NSIUX
Payden & Rygel Investment Group: Payden US Government Fund; Investor Class Shares	PYUSX
Thornburg Investment Trust: Thornburg Limited Term US Government Fund; Class A Shares	LTUSX

**Lipper Specialty Fixed Income Funds Index**

Amana Mutual Funds Trust: Participation Fund; Institutional Class Shares	AMIPX
BlackRock Funds IV: BlackRock Global Long/Short Credit Fund; Institutional Shares	BGCIX
Direxion Funds: Direxion Monthly 7-10 Year Treasury Bull 1.75x Fund; Investor Class Shares	DXKLX
Direxion Funds: Direxion Monthly High Yield Bull 1.2X Fund; Investor Class Shares	DXHYX
Dunham Funds: Dunham Long/Short Credit Fund; Class N Shares	DNAIX
Investment Managers Series Trust II: Ambassador Fund	EMPIX
Investment Managers Series Trust: Robinson Tax Advantaged Income Fund; Institutional Class Shares	ROBNX
Pioneer Series Trust VII: Pioneer CAT Bond Fund; Class Y Shares	CBYYX
ProFunds: US Government Plus ProFund; Investor Class Shares	GVPIX
Rydex Series Funds: Government Long Bond 1.2x Strategy Fund; Investor Class Shares	RYGBX

---

**Lipper U.S. Mortgage Funds Index**

Advisors Series Trust: Medalist Partners MBS Total Return Fund; Institutional Class Shares	SEMMX
AIM Growth Series (Invesco Growth Series): Invesco Quality Income Fund; Class A Shares	VKMGX
BlackRock Allocation Target Shares: Series A Portfolio	BATAX
BlackRock Funds V: BlackRock Impact Mortgage Fund; Investor A Shares	CIGAX
BlackRock Funds: iShares US Securitized Bond Index Fund	BISBX
Brown Advisory Funds: Brown Advisory Mortgage Securities Fund; Institutional Class Shares	BAFZX
Columbia Funds Series Trust II: Columbia Quality Income Fund; Class A Shares	AUGAX
Community Capital Trust:CCM Community Impact Bond Fund; CRA Class Shares	CRAIX
Community Development Fund; Class A Shares	CDCDX
DoubleLine Funds Trust: DoubleLine Total Return Bond Fund; Class I Shares	DBLTX
Empower Funds, Inc: Empower US Government Securities Fund; Institutional Class Shares	MXDQX
Federated Hermes Income Securities Trust: Federated Hermes Fund for US Government Securities; Class A Shares	FUSGX
Federated Hermes Managed Pool Series: Federated Hermes Mortgage Strategy Portfolio	FMBPX
Fidelity Advisor Series II: Fidelity Mortgage Securities Fund	FMSFX
Fidelity Advisor Series II: Fidelity Series Investment Grade Securitized Fund	FHPFX
HC Capital Trust: US Mortgage/Asset Backed Fixed Income Securities Portfolio; HC Strategic Class Shares	HCASX
James Alpha Funds Trust: Easterly Income Opportunities Fund; Class I Shares	JSVIX
John Hancock Strategic Series: John Hancock Managed Account Shares Securitized Debt Portfolio	JMAEX
JPMorgan Trust II: JPMorgan Mortgage-Backed Securities Fund; Class R6 Shares	JMBUX
Legg Mason Partners Income Trust: Western Asset Mortgage Total Return Fund; Class A Shares	SGVAX
Loomis Sayles Funds I: Loomis Sayles Securitized Asset Fund; Institutional Class Shares	LSSAX
Managed Account Series II: BlackRock US Mortgage Portfolio; Institutional Shares	MSUMX
Morgan Stanley Mortgage Securities Trust; Class I Shares	MTGDX
Mutual Fund and Variable Insurance Trust: Rational Special Situations Income Fund; Institutional Class Shares	RFXIX
PACE Select Advisors Trust: PACE Mortgage-Backed Securities Fixed Income Investments; Class P Shares	PCGTX
Principal Funds, Inc: Government & High Quality Bond Fund; Institutional Class Shares	PMRIX
Putnam Mortgage Securities Fund; Class A Shares	PGSIX
RBC Funds Trust: RBC BlueBay Access Capital Community Investment Fund; Class I Shares	ACCSX
TCW Funds, Inc: TCW Securitized Bond Fund; Class I Shares	TGLMX
Voya Separate Portfolios Trust: Voya Securitized Credit Fund; Class I Shares	VCFIX

---

**Lipper Ultra Short Obligations Funds Index**

Allspring Funds Trust: Allspring Ultra Short-Term Income Fund; Institutional Class Shares	SADIX
Baird Funds, Inc: Baird Ultra Short Bond Fund; Institutional Class Shares	BUBIX
BlackRock Funds: BlackRock Short Obligations Fund; Institutional Class Shares	BISOX
Calvert Fund: Calvert Ultra-Short Duration Income Fund; Class I Shares	CULIX
Columbia Funds Series Trust I: Columbia Ultra Short Term Bond Fund; Institutional 3 Class Shares	CMGUX
DFA Investment Dimensions Group Inc: DFA One-Year Fixed Income Portfolio; Institutional Class Shares	DFIHX
Federated Hermes Institutional Trust: Federated Hermes Government Ultrashort Fund; Institutional Shares	FGUSX
Federated Hermes Total Return Series, Inc: Federated Hermes Ultrashort Bond Fund; Institutional Shares	FULIX
Fidelity Hereford Street Trust: Fidelity Series Treasury Bill Index Fund	FHQFX
Fidelity Salem Street Trust: Fidelity Conservative Income Bond Fund	FCNVX
Fidelity Salem Street Trust: Fidelity Flex Conservative Income Bond Fund	FJTDX
Goldman Sachs Trust: Goldman Sachs Enhanced Income Fund; Class P Shares	GAEPX
Goldman Sachs Trust: Goldman Sachs Short-Term Conservative Income Fund; Class P Shares	GMBPX
Guggenheim Funds Trust: Guggenheim Ultra Short Duration Fund; Institutional Shares	GIYIX
Invesco Management Trust: Invesco Conservative Income Fund; Institutional Class Shares	ICIFX
JPMorgan Trust I: JPMorgan Managed Income Fund; Class L Shares	JMGIX
Lord Abbett Investment Trust: Lord Abbett Ultra Short Bond Fund; Class A Shares	LUBAX
Morgan Stanley Institutional Fund Trust: Ultra-Short Income Portfolio; Class IR Shares	MULSX
Northern Funds: Tax-Advantaged Ultra-Short Fixed Income Fund	NTAUX
Northern Funds: Ultra-Short Fixed Income Fund	NUSFX
Payden & Rygel Investment Group: Payden Limited Maturity Fund; Class SI Shares	PYLSX
PIMCO Funds: PIMCO Short Asset Investment Fund; Institutional Class Shares	PAIDX
PIMCO Funds: PIMCO Short-Term Fund; Institutional Class Shares	PTSHX
Pioneer Series Trust X: Pioneer Multi-Asset Ultrashort Income Fund; Class Y Shares	MYFRX
Putnam Funds Trust: Putnam Ultra Short Duration Income Fund; Class Y Shares	PSDYX
SEI Institutional Investments Trust: Ultra Short Duration Bond Fund; Class A Shares	SUSAX
SEI Institutional Managed Trust: Conservative Income Fund; Class F Shares	COIAX
T Rowe Price Ultra Short-Term Bond Fund	TRBUX
UBS Series Funds: UBS Ultra Short Income Fund; Class P Shares	USIPX
Vanguard Fixed Income Securities Funds: Vanguard Ultra-Short-Term Bond Fund; Admiral Shares	VUSFX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Tax-Exempt Fixed Income**

**Lipper California Intermediate Municipal Debt Funds Index**

American Century California Tax-Free & Municipal Funds: California Intermediate-Term Tax-Free Bond Fund; Inv	BCITX
Capital Group Private Client Services Funds: Capital Group California Core Municipal Fund	CCCMX
DFA Investment Dimensions Group Inc: DFA California Intermediate-Term Municipal Bond Portfolio; Inst Class Shs	DCIBX
Franklin California Tax-Free Trust: Franklin California Intermediate-Term Tax-Free Income Fund; Class A1 Shs	FKCIX
Northern Funds: California Intermediate Tax-Exempt Fund	NCITX
PIMCO Funds: PIMCO California Municipal Opportunistic Value Fund; Institutional Class Shares	GCMFX
Sanford C Bernstein Fund, Inc: California Municipal Portfolio; California Municipal Class Shares	SNCAX
Schwab Investments: Schwab California Tax-Free Bond Fund	SWCAX
SEI Tax Exempt Trust: California Municipal Bond Fund; Class F Shares	SBDAX
Vanguard California Tax-Free Funds: California Intermediate-Term Tax-Exempt Fund; Admiral Shares	VCADX

---

**Lipper California Municipal Debt Funds Index**

AB Municipal Income Fund, Inc: AB California Portfolio; Class A Shares	ALCAX
AIM Tax-Exempt Funds (Invesco Tax-Exempt Funds): Invesco California Municipal Fund; Class A Shares	OPCAX
Allspring Funds Trust: Allspring California Tax-Free Fund; Class A Shares	SCTAX
American Century California Tax-Free & Municipal Funds: California High-Yield Municipal Fund; Investor Cl Shs	BCHYX
American Funds Tax-Exempt Series II: Tax-Exempt Fund of California; Class A Shares	TAFTX
BlackRock California Municipal Series Trust: BlackRock California Municipal Opportunities Fund; Instl Cl Shs	MACMX
BNY Mellon California AMT-Free Municipal Bond Fund, Inc.; Class Z Shares	DRCAX
Columbia Funds Series Trust I: Columbia Strategic California Municipal Income Fund; Class A Shs	CLMPX
Deutsche DWS State Tax-Free Income Series: DWS California Tax-Free Income Fund; Class A Shares	KCTAX
Eaton Vance Municipals Trust: Eaton Vance California Municipal Opportunities Fund; Class A Shares	EACAX
Fidelity California Municipal Trust: Fidelity California Municipal Income Fund	FCTFX
Franklin California Tax-Free Income Fund; Class A1 Shares	FKTFX
Franklin Municipal Securities Trust: Franklin California High Yield Municipal Fund; Class A1 Shares	FCAMX
FundVantage Trust: Ambrus Tax-Conscious California Bond Fund; Institutional Class Shares	TCCBX
John Hancock California Municipal Bond Fund; Class A Shares	TACAX
Legg Mason Partners Income Trust: Western Asset California Municipals Fund; Class A Shares	SHRCX
Lord Abbett Municipal Income Fund, Inc: Lord Abbett California Tax Free Fund; Class A Shares	LCFIX
MFS Municipal Series Trust: MFS California Municipal Bond Fund; Class A Shares	MCFTX
New York Life Investments Funds Trust: NYLI MacKay California Muni Fund; Class I Shares	MCOIX
Northern Funds: California Tax-Exempt Fund	NCATX
Nuveen Multistate Trust II: Nuveen California High Yield Municipal Bond Fund; Class A Shares	NCHAX
Nuveen Multistate Trust II: Nuveen California Municipal Bond Fund; Class I Shares	NCSPX
Old Westbury Funds, Inc: Old Westbury California Municipal Bond Fund	OWCAX
PIMCO Funds: PIMCO California Municipal Bond Fund; Class A Shares	PCTTX
Principal Funds, Inc: California Municipal Fund; Class A Shares	SRCMX
Putnam California Tax Exempt Income Trust: Putnam California Tax Exempt Income Fund; Class A Shares	PCTEX
T Rowe Price State Tax-Free Funds, Inc: California Tax-Free Bond Fund	PRXCX
Vanguard California Tax-Free Funds: California Long-Term Tax-Exempt Fund; Admiral Shares	VCLAX
Victory Portfolios III: Victory California Bond Fund; Fund Shares Class	USCBX
Voyageur Mutual Funds: Macquarie Tax-Free California Fund; Institutional Class Shares	DCTIX

---

**Lipper General & Insured Municipal Debt Funds Index**

AB Municipal Income Fund, Inc: AB National Portfolio; Advisor Class Shares	ALTVX
AIM Tax-Exempt Funds (Invesco Tax-Exempt Funds): Invesco AMT-Free Municipal Income Fund; Class A Shares	OPTAX
AIM Tax-Exempt Funds (Invesco Tax-Exempt Funds): Invesco Municipal Income Fund; Class A Shares	VKMMX
Allspring Funds Trust: Allspring Municipal Bond Fund; Institutional Class Shares	WMBIX
BlackRock Municipal Bond Fund, Inc: BlackRock National Municipal Fund; Institutional Shares	MANLX
BlackRock Municipal Series Trust: BlackRock Strategic Municipal Opportunities Fund; Institutional Shares	MAMTX
BNY Mellon Funds Trust: BNY Mellon Municipal Opportunities Fund; Class M Shares	MOTMX
Bridge Builder Trust: Bridge Builder Municipal Bond Fund	BBMUX
Columbia Funds Series Trust I: Columbia Tax-Exempt Fund; Class A Shares	COLTX
DFA Investment Dimensions Group Inc: DFA Municipal Real Return Portfolio; Institutional Class Shares	DMREX
Eaton Vance Municipals Trust: Eaton Vance National Municipal Income Fund; Class I Shares	EIHMx
Fidelity Municipal Trust: Fidelity Municipal Income Fund	FHIGX
Fidelity Rutland Square Trust II: Strategic Advisers Municipal Bond Fund	FSMUX
Fidelity Salem Street Trust: Fidelity SAI Municipal Income Fund	FSMNx
Fidelity Salem Street Trust: Fidelity SAI Tax-Free Bond Fund	FSAJX
Fidelity Salem Street Trust: Fidelity Tax-Free Bond Fund	FTABX
Franklin Federal Tax-Free Income Fund; Class A1 Shares	FKTIX
Goldman Sachs Trust: Goldman Sachs Dynamic Municipal Income Fund; Institutional Shares	GSMTX
Legg Mason Partners Income Trust: Western Asset Managed Municipals Fund; Class A Shares	SHMMX
Lord Abbett Municipal Income Fund, Inc: Lord Abbett National Tax Free Fund; Class A Shares	LANSX
MFS Municipal Series Trust: MFS Municipal Income Fund; Class A Shares	MFIAX
New York Life Investments Funds: NYLI MacKay Tax Free Bond Fund; Class I Shares	MTBIX
Nuveen Managed Accounts Portfolios Trust: Nuveen Municipal Total Return Managed Accounts Portfolio	NMTRX
Nuveen Municipal Trust: Nuveen All-American Municipal Bond Fund; Class A Shares	FLAAX
T Rowe Price Summit Municipal Funds, Inc: T Rowe Price Summit Municipal Income Fund; Class I Shares	PRIMX
T Rowe Price Tax-Free Income Fund, Inc; Class I Shares	TFILX
Tax-Exempt Bond Fund of America; Class A Shares	AFTEX
Vanguard Municipal Bond Funds: Vanguard High-Yield Tax-Exempt Fund; Admiral Shares	VWALX
Vanguard Municipal Bond Funds: Vanguard Long-Term Tax-Exempt Fund; Admiral Shares	VWLUX
Victory Portfolios III: Victory Tax-Exempt Long-Term Fund; Fund Shares Class	USTEX



**Lipper High Yield Municipal Debt Funds Index**

AB Corporate Shares: AB Impact Municipal Income Shares	ABIMX
AB Corporate Shares: AB Municipal Income Shares	MISHX
AB Municipal Income Fund, Inc: AB High Income Municipal Portfolio; Advisor Class Shares	ABTYX
AIM Counselor Series Trust (Invesco Counselor Series Trust): Invesco Short Duration Hi Yld Muni Fd; CI A Shs	ISHAX
AIM Tax-Exempt Funds (Invesco Tax-Exempt Funds): Invesco High Yield Municipal Fund; Class A Shares	ACTHX
AIM Tax-Exempt Funds (Invesco Tax-Exempt Funds): Invesco Rochester Municipal Opportunities Fund; Class Y Shs	ORNYX
American Century Municipal Trust: High-Yield Municipal Fund; Class I Shares	AYMIX
American High-Income Municipal Bond Fund; Class A Shares	AMHIX
BlackRock Allocation Target Shares: Series E Portfolio	BATEX
BlackRock Municipal Bond Fund, Inc: BlackRock High Yield Municipal Fund; Institutional Shares	MAYHX
City National Rochdale Funds: City National Rochdale Municipal High Income Fund; Class N Shares	CNRNX
Deutsche DWS Municipal Trust: DWS Strategic High Yield Tax-Free Fund; Class S Shares	SHYTX
Eaton Vance Municipals Trust II: Eaton Vance High Yield Municipal Income Fund; Class A Shares	ETHYX
Franklin Tax-Free Trust: Franklin High Yield Tax-Free Income Fund; Class A1 Shares	FRHIX
Goldman Sachs Trust: Goldman Sachs High Yield Municipal Fund; Class P Shares	GGLPX
Lord Abbett Municipal Income Fund, Inc: Lord Abbett High Income Municipal Bond Fund; Class A Shares	HYMAX
Lord Abbett Municipal Income Fund, Inc: Lord Abbett Short Duration High Income Municipal Bond Fund; Class I	SDHIX
MFS Series Trust III: MFS Municipal High Income Fund; Class I Shares	MMIIX
New York Life Investments Funds Trust: NYLI MacKay High Yield Muni Bond Fund; Class I Shares	MMHIX
Northern Funds: High Yield Municipal Fund	NHYMX
Northern Lights Fund Trust: Ocean Park Tactical Municipal Fund; Institutional Class Shares	STMEX
Nuveen Municipal Trust: Nuveen High Yield Municipal Bond Fund; Class I Shares	NHMRX
Nuveen Municipal Trust: Nuveen Short Duration High Yield Municipal Bond Fund; Class I Shares	NVHIX
PIMCO Funds: PIMCO High Yield Municipal Bond Fund; Institutional Class Shares	PHMIX
Pioneer Series Trust V: Pioneer High Income Municipal Fund; Class Y Shares	HIMYX
Prudential Investment Portfolios 4: PGIM Muni High Income Fund; Class A Shares	PRHAX
Putnam Tax-Free Income Trust: Putnam Tax-Free High Yield Fund; Class A Shares	PTHAX
Russell Investment Company: Tax Exempt High Yield Bond Fund; Class S Shares	RTHSX
T Rowe Price Tax-Free High Yield Fund, Inc	PRFHX
Voyageur Mutual Funds: Macquarie National High-Yield Municipal Bond Fund; Institutional Class Shares	DVHIX

## Lipper Intermediate Municipal Debt Funds Index

AIM Tax-Exempt Funds (Invesco Tax-Exempt Funds): Invesco Intermediate Term Municipal Income Fd; Class A Shares	IKLMX
American Century Municipal Trust: Intermediate-Term Tax-Free Bond Fund; Class I Shares	AXBIX
AMG Funds: AMG GW&K Municipal Bond Fund; Class I Shares	GWMIX
Baird Funds, Inc: Baird Core Intermediate Municipal Bond Fund; Institutional Class Shares	BMNIX
Baird Funds, Inc: Baird Quality Intermediate Municipal Bond Fund; Institutional Class Shares	BMBIX
BBH Trust: BBH Intermediate Municipal Bond Fund; Class I Shares	BBIIX
BNY Mellon Funds Trust: BNY Mellon National Intermediate Municipal Bond Fund; Class M Shares	MPNIX
Brinker Capital Destinations Trust: Destinations Municipal Fixed Income Fund; Class I Shares	DMFFX
Brown Advisory Funds: Brown Advisory Tax-Exempt Bond Fund; Institutional Class Shares	BTEIX
Delaware Group Tax-Free Fund: Macquarie Tax-Free USA Intermediate Fund; Institutional Class Shares	DUSIX
DFA Investment Dimensions Group Inc: DFA Intermediate-Term Municipal Bond Portfolio; Institutional Class Shs	DFTIX
Eaton Vance Municipals Trust II: Parametric TABS 5-to-15 Year Laddered Municipal Bond Fund; Class I Shares	EILTX
Fidelity School Street Trust: Fidelity Advisor Intermediate Municipal Income Fund; Class Z Shares	FIQZX
Franklin Tax-Free Trust: Franklin Federal Intermediate-Term Tax-Free Income Fund; Class A1 Shares	FKITX
Hartford Mutual Funds, Inc: Hartford Municipal Opportunities Fund; Class I Shares	HHMIX
JPMorgan Trust I: JPMorgan National Municipal Income Fund; Class R6 Shares	JITZX
Legg Mason Partners Income Trust: Western Asset Intermediate-Term Municipals Fund; Class I Shares	SBTYX
Lord Abbett Municipal Income Fund, Inc: Lord Abbett Intermediate Tax Free Fund; Class I Shares	LAIIX
New York Life Investments Funds Trust: NYLI MacKay Strategic Muni Allocation Fund; Class I Shares	MTFGX
Northern Funds: Intermediate Tax-Exempt Fund	NOITX
Nuveen Municipal Trust: Nuveen Intermediate Duration Municipal Bond Fund; Class I Shares	NUVBX
Putnam Tax-Free Income Trust: Putnam Strategic Intermediate Municipal Fund; Class Y Shares	PAMYX
Russell Investment Company: Tax Exempt Bond Fund; Class S Shares	RLVSX
Sanford C Bernstein Fund, Inc: Diversified Municipal Portfolio; Diversified Municipal Class Shares	SNDPX
SEI Tax Exempt Trust: Intermediate-Term Municipal Fund; Class F Shares	SEIMX
T Rowe Price Summit Municipal Funds, Inc: T Rowe Price Summit Municipal Intermediate Fund; Class I Shares	PRTMX
Thornburg Investment Trust: Thornburg Intermediate Municipal Fund; Class I Shares	THMIX
Transamerica Funds: Transamerica Intermediate Muni; Class I Shares	TIMUX
Vanguard Municipal Bond Funds: Vanguard Intermediate-Term Tax-Exempt Fund; Admiral Shares	VWIUX
Victory Portfolios III: Victory Tax Exempt Intermediate-Term Fund; Fund Shares Class	USATX

**Lipper Maryland Municipal Debt Funds Index**

Brown Advisory Funds: Brown Advisory Maryland Bond Fund; Investor Class Shares	BIAMX
Eaton Vance Municipals Trust: Eaton Vance Maryland Municipal Income Fund; Class A Shares	ETMDX
Fidelity Union Street Trust: Fidelity Maryland Municipal Income Fund	SMDMX
Franklin Tax-Free Trust: Franklin Maryland Tax-Free Income Fund; Class A1 Shares	FMDTX
MFS Municipal Series Trust: MFS Maryland Municipal Bond Fund; Class A Shares	MFSMX
Nuveen Multistate Trust I: Nuveen Maryland Municipal Bond Fund; Class A Shares	NMDAX
T Rowe Price State Tax-Free Funds, Inc: T Rowe Price Maryland Tax-Free Bond Fund	MDXBX

**Lipper Massachusetts Municipal Debt Funds Index**

AB Municipal Income Fund II: AB Massachusetts Portfolio; Class A Shares	AMAX
Deutsche DWS State Tax-Free Income Series: DWS Massachusetts Tax-Free Fund; Class S Shares	SCMAX
Eaton Vance Municipals Trust: Eaton Vance Massachusetts Municipal Income Fund; Class A Shares	ETMAX
Fidelity Massachusetts Municipal Trust: Fidelity Massachusetts Municipal Income Fund	FDMMX
Franklin Tax-Free Trust: Franklin Massachusetts Tax-Free Income Fund; Class A1 Shares	FMISX
Legg Mason Partners Income Trust: Western Asset Massachusetts Municipals Fund; Class A Shares	SLMMX
MFS Municipal Series Trust: MFS Massachusetts Municipal Bond Fund; Class A Shares	MFSSX
Nuveen Multistate Trust II: Nuveen Massachusetts Municipal Bond Fund; Class I Shares	NBMAX
Putnam Massachusetts Tax Exempt Income Fund; Class A Shares	PXMAX
Vanguard Massachusetts Tax-Exempt Funds: Vanguard Massachusetts Tax-Exempt Fund; Investor Shares	VMATX

**Lipper Minnesota Municipal Debt Funds Index**

AB Municipal Income Fund II: AB Minnesota Portfolio; Class A Shares	AMNAX
Columbia Funds Series Trust II: Columbia Minnesota Tax-Exempt Fund; Class A Shares	IMNTX
Eaton Vance Municipals Trust: Eaton Vance Minnesota Municipal Income Fund; Class I Shares	EIMNX
Fidelity Municipal Trust: Fidelity Minnesota Municipal Income Fund	FIMIX
Franklin Tax-Free Trust: Franklin Minnesota Tax-Free Income Fund; Class A1 Shares	FMINX
Nuveen Investment Funds, Inc: Nuveen Minnesota Municipal Bond Fund; Class A Shares	FJMNX
Putnam Minnesota Tax Exempt Income Fund; Class A Shares	PXMNX
Sit Mutual Funds II, Inc: Sit Minnesota Tax-Free Income Fund	SMTFX
Voyageur Mutual Funds: Macquarie Minnesota High-Yield Municipal Bond Fund; Class A Shares	DVMHX
Voyageur Tax Free Funds: Macquarie Tax-Free Minnesota Fund; Class A Shares	DEFFX

**Lipper New Jersey Municipal Debt Funds Index**

AIM Tax-Exempt Funds (Invesco Tax-Exempt Funds): Invesco New Jersey Municipal Fund; Class A Shares	ONJAX
BlackRock Multi-State Municipal Series Trust: BlackRock New Jersey Municipal Bond Fund; Institutional Shares	MANJX
BNY Mellon New Jersey Municipal Bond Fund, Inc; Class A Shares	DRNJX
Fidelity Court Street Trust: Fidelity New Jersey Municipal Income Fund	FNJHX
Franklin Tax-Free Trust: Franklin New Jersey Tax-Free Income Fund; Class A1 Shares	FRNJX
Legg Mason Partners Income Trust: Western Asset New Jersey Municipals Fund; Class A Shares	SHNJX
Nuveen Multistate Trust II: Nuveen New Jersey Municipal Bond Fund; Class A Shares	NNJAX
Putnam New Jersey Tax Exempt Income Fund; Class A Shares	PTNJX
T Rowe Price State Tax-Free Funds, Inc: T Rowe Price New Jersey Tax-Free Bond Fund	NJTFX
Vanguard New Jersey Tax-Free Funds: New Jersey Long-Term Tax-Exempt Fund; Investor Shares	VNJTX

**Lipper New York Municipal Debt Funds Index**

AIM Tax-Exempt Funds (Invesco Tax-Exempt Funds): Invesco Rochester AMT-Free NY Muni Fd; Cls A Shs	OPNYX
AIM Tax-Exempt Funds (Invesco Tax-Exempt Funds): Invesco Rochester New York Municipals Fund; Class A Shs	RMUNX
BlackRock Multi-State Municipal Series Trust: BlackRock New York Municipal Opportunities Fund; Institutional	MANKX
Fidelity New York Municipal Trust: Fidelity New York Municipal Income Fund	FTFMX
Franklin New York Tax-Free Income Fund; Class A1 Shares	FNVTX
New York Life Investments Funds Trust: NYLI MacKay New York Muni Fund; Class A Shares	MNOAX
Nuveen Multistate Trust II: Nuveen New York Municipal Bond Fund; Class I Shares	NTNYX
Old Westbury Funds, Inc: Old Westbury New York Municipal Bond Fund	OWNYX
Putnam New York Tax Exempt Income Fund; Class A Shares	PTEIX
Vanguard New York Tax-Free Funds: New York Long-Term Tax-Exempt Fund; Admiral Shares	VNYUX

**Lipper Ohio Municipal Debt Funds Index**

AB Municipal Income Fund II: AB Ohio Portfolio; Class A Shares	AOHAX
Eaton Vance Municipals Trust: Eaton Vance Ohio Municipal Income Fund; Class A Shares	ETOHX
Federated Hermes Municipal Securities Income Trust: Federated Hermes Ohio Municipal Income Fund; Class F Shs	OMIFX
Fidelity Municipal Trust: Fidelity Ohio Municipal Income Fund	FOHFX
Franklin Tax-Free Trust: Franklin Ohio Tax-Free Income Fund; Class A1 Shares	FTOIX
Nuveen Multistate Trust IV: Nuveen Ohio Municipal Bond Fund; Class A Shares	FOHTX
Putnam Ohio Tax Exempt Income Fund; Class A Shares	PXOHX
Vanguard Ohio Tax-Free Funds: Ohio Long-Term Tax-Exempt Fund; Investor Shares	VOHIX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Other States Intermediate Municipal Debt Funds Index**

ALPS Series Trust: Carret Kansas Tax-Exempt Bond Fund; Institutional Class Shs	SEKSX
BNY Mellon Funds Trust: BNY Mellon Massachusetts Intermediate Municipal Bond Fund; Class M Shares	MMBMX
Columbia Funds Series Trust I: Columbia Oregon Intermediate Municipal Bond Fund; Institutional Class Shares	CMBFX
Commerce Funds: Kansas Tax-Free Intermediate Bond Fund	KTXIX
Commerce Funds: Missouri Tax-Free Intermediate Bond Fund	CFMOX
FundVantage Trust: Pacific Capital Tax-Free Securities Fund; Class Y Shares	PTXFX
Johnson Mutual Funds Trust: Johnson Municipal Income Fund	JMUNX
Nuveen Investment Funds, Inc: Nuveen Minnesota Intermediate Municipal Bond Fund; Class I Shares	FAMTX
Nuveen Investment Funds, Inc: Nuveen Oregon Intermediate Municipal Bond Fund; Class I Shares	FORCX
Segall Bryant & Hamill Trust: Segall Bryant & Hamill Colorado Tax Free Fund; Retail Class Shares	WTCOX

**Lipper Other States Municipal Debt Funds Index**

Bishop Street Funds: Hawaii Municipal Bond Fund; Class A Shares	BHIAx
Colorado BondShares-A Tax-Exempt Fund	HICOX
Dupree Mutual Funds: Kentucky Tax-Free Income Series	KYTFX
Eaton Vance Municipals Trust: Eaton Vance North Carolina Municipal Income Fund; Class I Shares	EINCX
Fidelity Court Street Trust: Fidelity Connecticut Municipal Income Fund	FICNX
Fidelity Municipal Trust: Fidelity Michigan Municipal Income Fund	FMHTX
Fidelity Union Street Trust: Fidelity Arizona Municipal Income Fund	FSAXX
Franklin Tax-Free Trust: Franklin Arizona Tax-Free Income Fund; Class A1 Shares	FTAXX
Franklin Tax-Free Trust: Franklin Colorado Tax-Free Income Fund; Class A1 Shares	FRCOX
Franklin Tax-Free Trust: Franklin Georgia Tax-Free Income Fund; Class A1 Shares	FTGAX
Franklin Tax-Free Trust: Franklin Louisiana Tax-Free Income Fund; Class A1 Shares	FKLAX
Franklin Tax-Free Trust: Franklin Michigan Tax-Free Income Fund; Class A1 Shares	FTTMX
Franklin Tax-Free Trust: Franklin Missouri Tax-Free Income Fund; Class A1 Shares	FRMOX
Franklin Tax-Free Trust: Franklin North Carolina Tax-Free Income Fund; Class A1 Shares	FXNCX
Franklin Tax-Free Trust: Franklin Oregon Tax-Free Income Fund; Class A1 Shares	FRORX
Hawaiian Tax-Free Trust; Class A Shares	HULAX
MFS Municipal Series Trust: MFS North Carolina Municipal Bond Fund; Class A Shares	MSNCX
MFS Municipal Series Trust: MFS South Carolina Municipal Bond Fund; Class A Shares	MFSCX
New York Life Investments Funds Trust: NYLI MacKay Arizona Muni Fund; Class Z Shares	AZTFX
New York Life Investments Funds Trust: NYLI MacKay Oregon Muni Fund; Class Z Shares	ORTFX
New York Life Investments Funds Trust: NYLI MacKay Utah Muni Fund; Class Z Shares	UTAHX
Nuveen Multistate Trust I: Nuveen Colorado Municipal Bond Fund; Class I Shares	FCORX
Nuveen Multistate Trust III: Nuveen Georgia Municipal Bond Fund; Class A Shares	FGATX
Nuveen Multistate Trust III: Nuveen Louisiana Municipal Bond Fund; Class A Shares	FTLAX
Nuveen Multistate Trust III: Nuveen North Carolina Municipal Bond Fund; Class I Shares	FCNRX
Nuveen Multistate Trust IV: Nuveen Kansas Municipal Bond Fund; Class A Shares	FKSTX
Nuveen Multistate Trust IV: Nuveen Kentucky Municipal Bond Fund; Class A Shares	FKYTX
Nuveen Multistate Trust IV: Nuveen Michigan Municipal Bond Fund; Class I Shares	NMMIX
Nuveen Multistate Trust IV: Nuveen Missouri Municipal Bond Fund; Class A Shares	FMOTX
T Rowe Price State Tax-Free Funds, Inc: Georgia Tax-Free Bond Fund	GTFBX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Pennsylvania Municipal Debt Funds Index**

AIM Tax-Exempt Funds (Invesco Tax-Exempt Funds): Invesco Pennsylvania Municipal Fund; Class A Shares	OPATX
BlackRock Multi-State Municipal Series Trust: BlackRock Pennsylvania Municipal Bond Fund; Institutional Shares	MAPYX
Delaware Group State Tax-Free Income Trust: Macquarie Tax-Free Pennsylvania Fund; Class A Shares	DELIX
Federated Hermes Municipal Securities Income Trust: Federated Hermes Pennsylvania Muni Inc Fd; Class A Shares	PAMFX
Fidelity Municipal Trust: Fidelity Pennsylvania Municipal Income Fund	FPXTX
Franklin Tax-Free Trust: Franklin Pennsylvania Tax-Free Income Fund; Class A1 Shares	FRPAX
MFS Municipal Series Trust: MFS Pennsylvania Municipal Bond Fund; Class A Shares	MFPAX
Nuveen Multistate Trust I: Nuveen Pennsylvania Municipal Bond Fund; Class I Shares	NBPAX
SEI Tax Exempt Trust: Pennsylvania Municipal Bond Fund; Class F Shares	SEPAX
Vanguard Pennsylvania Tax-Free Funds: Pennsylvania Long-Term Tax-Exempt Fund; Investor Shares	VPAIX

## Lipper Short Municipal Debt Funds Index

abrdn Funds: abrdn Ultra Short Municipal Income Fund; Institutional Class Shares	ATOIX
AIM Counselor Series Trust (Invesco Counselor Series Trust): Invesco Short Term Municipal Fd; Class Y Sh	ORSYX
Allspring Funds Trust: Allspring Short-Term Municipal Bond Fund; Institutional Class Shares	WSBIX
Allspring Funds Trust: Allspring Ultra Short-Term Municipal Income Fund; Institutional Class Shs	SMAIX
American Funds Short-Term Tax-Exempt Bond Fund; Class A Shares	ASTEX
Baird Funds, Inc: Baird Short-Term Municipal Bond Fund; Institutional Class Shares	BTMIX
BlackRock Municipal Bond Fund, Inc: BlackRock Short-Term Municipal Fund; Institutional Shares	MALMX
BNY Mellon Funds Trust: BNY Mellon National Short-Term Municipal Bond Fund; Class M Shares	MPSTX
DFA Investment Dimensions Group Inc: DFA Short-Term Municipal Bond Portfolio; Institutional Class Shares	DFSMX
DFA Investment Dimensions Group Inc: DFA Short-Term Selective State Municipal Bond Portfolio; Institutional CI	DFABX
Eaton Vance Investment Trust: Eaton Vance National Ultra-Short Municipal Income Fund; Class I Shares	EILMX
Federated Hermes Adviser Series: Federated Hermes Conservative Municipal Microshort Fund; Institutional Shares	FHMIX
Federated Hermes Fixed Income Securities, Inc: Federated Hermes Municipal Ultrashort Fund; Institutional Class	FMUSX
Federated Hermes Short-Intermediate Duration Municipal Trust: Federated Hermes Short-Int Muni Fd; Inst Shs	FSHIX
Fidelity Municipal Trust: Fidelity Conservative Income Municipal Bond Fund	FMNDX
Fidelity Municipal Trust: Fidelity Flex Conservative Income Municipal Bond Fund	FUEMX
Fidelity Rutland Square Trust II: Strategic Advisers Tax-Sensitive Short Duration Fund	FGNSX
Franklin Tax-Free Trust: Franklin Federal Limited-Term Tax-Free Income Fund; Class A Shares	FFLQX
Goldman Sachs Trust: Goldman Sachs Short Duration Tax-Free Fund; Class P Shares	GANPX
JPMorgan Trust IV: JPMorgan Ultra-Short Municipal Fund; Class I Shares	USMTX
Legg Mason Partners Income Trust: Western Asset Short Duration Municipal Income Fund; Class A Shares	SHDAX
Lord Abbett Municipal Income Fund, Inc: Lord Abbett Short Duration Tax-Free Fund; Class A Shares	LSDAX
New York Life Investments Funds Trust: NYLI MacKay Short Term Muni Fund; Class I Shares	MSTIX
Nuveen Investment Funds, Inc: Nuveen Short Term Municipal Bond Fund; Class I Shares	FSHYX
PIMCO Funds: PIMCO Short Duration Municipal Income Fund; Institutional Class Shares	PSDIX
Putnam Funds Trust: Putnam Short-Term Municipal Income Fund; Class Y Shares	PSMYX
SEI Institutional Managed Trust: Tax-Free Conservative Income Fund; Class F Shares	TFCAX
SEI Tax Exempt Trust: Short Duration Municipal Fund; Class F Shares	SUMAX
Vanguard Municipal Bond Funds: Vanguard Ultra-Short-Term Tax-Exempt Fund; Admiral Shares	VWSUX
Victory Portfolios III: Victory Tax Exempt Short-Term Fund; Fund Shares Class	USSTX



**Lipper Short-Intermediate Municipal Debt Funds Index**

AIM Tax-Exempt Funds (Invesco Tax-Exempt Funds): Invesco Limited Term Municipal Income Fund; Class A Shares	ATFAX
Allspring Funds Trust: Allspring Strategic Municipal Bond Fund; Institutional Class Shares	STRIX
Baird Funds, Inc: Baird Strategic Municipal Bond Fund; Institutional Class Shares	BSNIX
Fidelity Municipal Trust: Fidelity Limited Term Municipal Income Fund	FSTFX
Limited Term Tax-Exempt Bond Fund of America; Class A Shares	LTEBX
MFS Series Trust IX: MFS Municipal Limited Maturity Fund; Class I Shares	MTLIX
Nuveen Municipal Trust: Nuveen Limited Term Municipal Bond Fund; Class A Shares	FLTDX
Old Westbury Funds, Inc: Old Westbury Municipal Bond Fund	OWMBX
Thornburg Investment Trust: Thornburg Limited Term Municipal Fund; Class I Shares	LTMIX
Vanguard Municipal Bond Funds: Vanguard Limited-Term Tax-Exempt Fund; Admiral Shares	VMLUX

**Lipper Virginia Municipal Debt Funds Index**

AB Municipal Income Fund II: AB Virginia Portfolio; Class A Shares	AVAAX
Eaton Vance Municipals Trust: Eaton Vance Virginia Municipal Income Fund; Class A Shares	ETVAX
Franklin Tax-Free Trust: Franklin Virginia Tax-Free Income Fund; Class A1 Shares	FRVAX
Madison Funds: Madison Tax-Free Virginia Fund; Class Y Shares	GTVAX
MFS Municipal Series Trust: MFS Virginia Municipal Bond Fund; Class A Shares	MSVAX
Nuveen Multistate Trust I: Nuveen Virginia Municipal Bond Fund; Class A Shares	FVATX
T Rowe Price State Tax-Free Funds, Inc: T Rowe Price Virginia Tax-Free Bond Fund	PRVAX
Victory Portfolios III: Victory Virginia Bond Fund; Fund Shares Class	USVAX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Money Market**

**Lipper California Tax-Exempt Money Market Funds Index**

American Century California Tax-Free & Municipal Funds: California Tax-Free Money Market Fund; Investor Class	BCTXX
Charles Schwab Family of Funds: Schwab California Municipal Money Fund; Investor Class Shares	SWKXX
Federated Hermes Money Market Obligations Trust: Federated Hermes California Municipal Cash Tr; Service Shs	CACXX
Fidelity California Municipal Trust II: Fidelity California Municipal MM Fund; Institutional Class Shares	FSBXX
JPMorgan Trust I: JPMorgan California Municipal Money Market Fund; Service Class Shares	JCVXX
Vanguard California Tax-Free Funds: California Municipal Money Market Fund; Investor Shares	VCTXX

**Lipper Institutional Money Market Funds Index**

BlackRock Liquidity Funds: TempCash; Institutional Shares	TMCXX
Federated Hermes Money Market Obligations Trust: Federated Hermes Institutional Prime Oblg Fd; Inst Shs	POIXX
First American Funds Trust: Institutional Prime Obligations Fund; Class Z Shares	FPZXX
JPMorgan Trust I: JPMorgan Prime Money Market Fund; Capital Shares	CJPXX
Legg Mason Partners Institutional Trust: Western Asset Institutional Liquid Reserves; Institutional Shares	CILXX
Morgan Stanley Institutional Liquidity Funds: Money Market Portfolio; Wealth Class Shares	MWMXX
Morgan Stanley Institutional Liquidity Funds: Prime Portfolio; Institutional Class Shares	MPFXX
Plan Investment Fund, Inc: Money Market Portfolio	PIMXX
State Street Institutional Investment Trust: State Street Institutional Liquid Reserves Fund; Premier Cls	SSIXX

---

**Lipper Institutional US Government Money Market Funds Index**

AB Fixed-Income Shares, Inc: AB Government Money Market Portfolio; Class 1 Shares	AGRXX
AIM Treasurer's Series Trust (Invesco Treasurer's Series Trust): Premier US Govt Money Port; Inst Cl Shs	IUGXX
Allspring Funds Trust: Allspring Government Money Market Fund; Select Class Shares	WFFXX
BBH Trust: BBH US Government Money Market Fund; Institutional Class Shares	BBSXX
BlackRock Liquidity Funds: BlackRock Liquid Federal Trust Fund; Institutional Shares	TFFXX
BlackRock Liquidity Funds: FedFund; Institutional Shares	TFDXX
City National Rochdale Funds: City National Rochdale Government Money Market Fund; Servicing Class Shares	CNIXX
Deutsche DWS Money Market Trust: DWS Government Money Market Series; Institutional Class Shares	ICAXX
Dreyfus Government Cash Management Funds; Institutional Shares	DGCXX
Dreyfus Institutional Reserves Funds: Dreyfus Institutional Preferred Government Money Market Fd; Instl Shares	DSVXX
Federated Hermes Money Market Obligations Trust: Federated Hermes Government Obligations Fund; Premier Shares	FOFXX
Fidelity Colchester Street Trust: Government Portfolio; Institutional Class Shares	FRGXX
Fidelity Salem Street Trust: Fidelity Series Government Money Market Fund	FGNXX
First American Funds Trust: Government Obligations Fund; Class Z Shares	FGZXX
Goldman Sachs Trust: Goldman Sachs Financial Square Federal Instruments Fund; Institutional Class Shares	FIRXX
Goldman Sachs Trust: Goldman Sachs Financial Square Government Fund; Institutional Class Shares	FGTXX
HSBC Funds: HSBC US Government Money Market Fund; Class I Shares	HGIXX
Institutional Fiduciary Trust: Money Market Portfolio	INFXX
JPMorgan Trust I: JPMorgan Federal Money Market Fund; Institutional Class Shares	JFMXX
JPMorgan Trust II: JPMorgan US Government Money Market Fund; Capital Shares	OGVXX
Legg Mason Partners Institutional Trust: Western Asset Institutional Government Reserves; Institutional Shares	INGXX
Morgan Stanley Institutional Liquidity Funds: Government Portfolio; Institutional Class Shares	MVRXX
Northern Institutional Funds: US Government Portfolio; Shares	BNGXX
Northern Institutional Funds: US Government Select Portfolio; Shares	BGSXX
RBC Funds Trust: RBC BlueBay US Government Money Market Fund; RBC Institutional Class 1 Shares	TUGXX
Short-Term Investments Trust: Invesco Government & Agency Portfolio; Institutional Class Shares	AGPXX
State Street Institutional Investment Trust: State Street Institutional US Govrnmt MM Fd; Premier Class Shs	GVMXX
UBS Series Funds: UBS Select Government Institutional Fund	SEGXX
UBS Series Funds: UBS Select Government Preferred Fund	SGPXX
Wilmington Funds: Wilmington US Government Money Market Fund; Select Class Shares	WGEXX

---

**Lipper Institutional US Treasury Money Market Funds Index**

Allspring Funds Trust: Allspring 100% Treasury Money Market Fund; Institutional Class Shares	WOTXX
Allspring Funds Trust: Allspring Treasury Plus Money Market Fund; Institutional Class Shares	PISXX
BlackRock Funds III: BlackRock Cash Funds: Treasury; Institutional Class Shares	BRIXX
BlackRock Funds: Circle Reserve Fund; Institutional Class Shares	USDXX
BlackRock Liquidity Funds: T-Fund; Institutional Shares	TSTXX
BlackRock Liquidity Funds: Treasury Trust Fund; Institutional Shares	TTTXX
Dreyfus Treasury Obligations Cash Management; Institutional Shares	DTRXX
Dreyfus Treasury Securities Cash Management; Institutional Shares	DIRXX
Federated Hermes Money Market Obligations Trust: Federated Hermes Treasury Obligations Fund; Institutional Shs	TOIXX
Federated Hermes Money Market Obligations Trust: Federated Hermes Trust for US Treasury Oblg; Inst Shs	TTOXX
Federated Hermes Money Market Obligations Trust: Federated Hermes US Treasury Cash Reserves; Institutional Shs	BTIXX
Fidelity Colchester Street Trust: Treasury Only Portfolio; Class I Shares	FSIXX
Fidelity Colchester Street Trust: Treasury Portfolio; Class I Shares	FISXX
First American Funds Trust: Treasury Obligations Fund; Class Z Shares	FUZXX
First American Funds Trust: US Treasury Money Market Fund; Class Z Shares	FOZXX
Goldman Sachs Trust: Goldman Sachs Financial Square Treasury Instruments Fund; Institutional Class Shares	FTIXX
Goldman Sachs Trust: Goldman Sachs Financial Square Treasury Obligations Fund; Institutional Class Shares	FTOXX
Goldman Sachs Trust: Goldman Sachs Financial Square Treasury Solutions Fund; Institutional Class Shares	FEDXX
HSBC Funds: HSBC US Treasury Money Market Fund; Class I Shares	HBIXX
JPMorgan Trust I: JPMorgan 100% US Treasury Securities Money Market Fund; Capital Shares	CJTXX
JPMorgan Trust II: JPMorgan US Treasury Plus Money Market Fund; Institutional Shares	IJTXX
Legg Mason Partners Institutional Trust: Western Asset Institutional US Treasury Reserves; Institutional Shs	CIIXX
Morgan Stanley Institutional Liquidity Funds: Treasury Portfolio; Institutional Class Shares	MISXX
Morgan Stanley Institutional Liquidity Funds: Treasury Securities Portfolio; Institutional Class Shares	MSUXX
Northern Institutional Funds: Treasury Portfolio; Shares	NITXX
Short-Term Investments Trust: Invesco Treasury Obligations Portfolio; Institutional Class Shares	TSPXX
Short-Term Investments Trust: Invesco Treasury Portfolio; Institutional Class Shares	TRPXX
State Street Institutional Investment Trust: State Street Institutional Treas Plus MM Fund; Premier Class Shs	TPIXX
State Street Institutional Investment Trust: State Street Institutional Treasury MM Fd; Premier Class Shares	TRIXX
UBS Series Funds: UBS Select Treasury Preferred Fund	STPXX

**Lipper Money Market Funds Index**

AIM Treasurer's Series Trust (Invesco Treasurer's Series Trust): Premier Portfolio; Institutional Class Shares	IPPXX
Allspring Funds Trust: Allspring Money Market Fund; Premier Class Shares	WMPXX
Charles Schwab Family of Funds: Schwab Value Advantage Money Fund; Investor Class Shares	SWVXX
Federated Hermes Money Market Obligations Trust: Federated Hermes Prime Cash Obligations Fund; Wealth Shares	PCOXX
Fidelity Colchester Street Trust: Money Market Portfolio; Institutional Class	FNSXX
Fidelity Hereford Street Trust: Fidelity Money Market Fund; Premium Class	FZDXX
Goldman Sachs Trust: Goldman Sachs Investor Money Market Fund; Class I Shares	FMJXX
JPMorgan Trust II: JPMorgan Liquid Assets Money Market Fund; Premier Shares	PJLXX
UBS Series Funds: UBS Prime Reserves Fund	UPRXX
Vanguard Money Market Reserves: Vanguard Cash Reserves Federal Money Market Fund; Admiral Shares	VMRXX

**Lipper Tax-Exempt Money Market Funds Index**

Allspring Funds Trust: Allspring National Tax-Free Money Market Fund; Premier Class Shares	WFNXX
Charles Schwab Family of Funds: Schwab AMT Tax-Free Money Fund; Ultra Class Shares	SCTXX
Charles Schwab Family of Funds: Schwab Municipal Money Fund; Ultra Class Shares	SWOXX
Federated Hermes Money Market Obligations Trust: Federated Hermes Municipal Obligations Fund; Wealth Shares	MOFXX
Federated Hermes Money Market Obligations Trust: Federated Hermes Tax-Free Obligations Fund; Wealth Shares	TBIXX
Fidelity Colchester Street Trust: Tax-Exempt Portfolio; Class I Shares	FTCXX
Fidelity Union Street Trust II: Fidelity Municipal Money Market Fund	FTEXX
Goldman Sachs Trust: Goldman Sachs Investor Tax-Exempt Money Market Fund; Class I Shares	FTXXX
JPMorgan Trust I: JPMorgan Tax Free Money Market Fund; Institutional Class Shares	JTFXX
Vanguard Municipal Bond Funds: Vanguard Municipal Money Market Fund; Investor Shares	VMSXX

## Lipper US Government Money Market Funds Index

AB Fixed-Income Shares, Inc: AB Government Money Market Portfolio; Class AB Shares	MYMXX
AIM Investment Securities Funds (Invesco Investment Securities Funds): Invesco Govt Mny Mkt Fd; Class CR Shs	AIMXX
AIM Investment Securities Funds (Invesco Investment Securities Funds): Invesco US Govt Mny Ptf; Cls Y Sh	OMBXX
Allspring Funds Trust: Allspring Government Money Market Fund; Service Class Shares	NWGXX
American Century Investment Trust: US Government Money Market Fund; Investor Class Shares	TCRXX
American Funds US Government Money Market Fund; Class A Shares	AFAXX
Cash Account Trust: DWS Government & Agency Securities Portfolio; DWS Government & Agency Money Fund	DTGXX
Cavanal Hill Funds: Cavanal Hill Government Securities Money Market Fund; Administrative Class Shares	APCXX
Charles Schwab Family of Funds: Schwab Government Money Fund; Investor Class Shares	SNVXX
Charles Schwab Family of Funds: Schwab Retirement Government Money Fund	SNRXX
City National Rochdale Funds: City National Rochdale Government Money Market Fund; Class S Shares	CNFXX
Edward Jones Money Market Fund; Investment Shares	JNSXX
Federated Hermes Money Market Obligations Trust: Federated Hermes Government Reserves Fund; Class P Shares	GRFXX
Fidelity Hereford Street Trust: Fidelity Government Money Market Fund	SPAXX
Fidelity Phillips Street Trust: Fidelity Government Cash Reserves	FDRXX
Franklin US Government Money Fund; Class A Shares	FMFXX
HSBC Funds: HSBC US Government Money Market Fund; Class A Shares	HGDXX
John Hancock Current Interest: John Hancock Money Market Fund; Class A Shares	JHMXX
JPMorgan Trust I: JPMorgan Federal Money Market Fund; Premier Shares	VFPXX
JPMorgan Trust II: JPMorgan US Government Money Market Fund; Premier Shares	OGSXX
Legg Mason Partners Money Market Trust: Western Asset Government Reserves; Class A Shares	SMGXX
Lord Abbett US Government & Government Sponsored Enterprises Money Market Fund, Inc; Class A Shares	LACXX
Northern Funds: US Government Money Market Fund	NOGXX
Northern Funds: US Government Select Money Market Fund	NOSXX
PACE Select Advisors Trust: UBS Government Money Market Investments; Class P Shares	PCEXX
PIMCO Funds: PIMCO Government Money Market Fund; Class A Shares	AMAXX
T Rowe Price Government Money Fund, Inc	PRRXX
Thrivent Mutual Funds: Thrivent Money Market Fund; Class S Shares	AALXX
UBS Series Funds: UBS RMA Government Money Market Fund	RMGXX
Vanguard Money Market Reserves: Vanguard Federal Money Market Fund; Investor Shares	VMFXX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper US Treasury Money Market Funds Index**

Allspring Funds Trust: Allspring 100% Treasury Money Market Fund; Service Class Shares	NWTXX
Charles Schwab Family of Funds: Schwab Treasury Obligations Money Fund; Investor Class Shares	SNOXX
Charles Schwab Family of Funds: Schwab US Treasury Money Fund; Investor Class Shares	SNSXX
Fidelity Hereford Street Trust: Fidelity Treasury Only Money Market Fund	FDLXX
Fidelity Newbury Street Trust: Fidelity Treasury Money Market Fund	FZFXX
Gabelli Money Market Funds: Gabelli US Treasury Money Market Fund; Class I Shares	GABXX
JPMorgan Trust I: JPMorgan 100% US Treasury Securities Money Market Fund; Premier Shares	VHPXX
JPMorgan Trust II: JPMorgan US Treasury Plus Money Market Fund; Premier Shares	PJTXX
T Rowe Price US Treasury Funds, Inc: US Treasury Money Fund	PRTXX
Vanguard Admiral Funds: Vanguard Treasury Money Market Fund; Investor Shares	VUSXX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Closed-End**

**Equity**

**Lipper Closed-End Diversified Equity Funds Index**

Adams Diversified Equity Fund, Inc.	XADFX
Cornerstone Strategic Investment Fund, Inc.	XCLMX
Eaton Vance Tax-Advantaged Dividend Income Fund	XEVTX
Gabelli Dividend & Income Trust	XGDVX
Gabelli Equity Trust, Inc	XGABX
General American Investors Company, Inc	XGAMX
Liberty All-Star Equity Fund	XUSAX
Royce Small-Cap Trust, Inc	XRVTX
SRH Total Return Fund, Inc	XSTEX
Tri-Continental Corporation	XTYCX

**Lipper Closed-End Energy MLP Funds Index**

ClearBridge Energy Midstream Opportunity Fund Inc	XEMOX
Kayne Anderson Energy Infrastructure Fund, Inc	XKYNX
Neuberger Berman Energy Infrastructure and Income Fund Inc.	XNMLX
NXG Cushing Midstream Energy Fund	XSRVX
Tortoise Energy Infrastructure Corporation	XTYGX
Tortoise Midstream Energy Fund, Inc	XNTGX

**Lipper Closed-End Global Funds Index**

abrdn Total Dynamic Dividend Fund	XAODX
BlackRock Capital Allocation Term Trust	XCATX
Calamos Global Dynamic Income Fund	XCHWX
Eaton Vance Tax-Advantaged Global Dividend Income Fund	XETGX
Eaton Vance Tax-Advantaged Global Dividend Opportunities Fund	XETOX
Nuveen Multi-Asset Income Fund	XNMAX
Nuveen Real Asset Income and Growth Fund	XJRIX
NYLI CBRE Global Infrastructure Megatrends Term Fund	XMEGX
Thornburg Income Builder Opportunities Trust	XTBLX
Virtus Total Return Fund Inc.	XZTRX



**Index Name    Full Fund Name****Nasdaq Symbol****Lipper Closed-End Global Income Funds Index**

abrdn Asia-Pacific Income Fund, Inc	XFAPX
Carlyle Tactical Private Credit Fund; Class N Shares	TAKNX
Lord Abbett Family Of Funds: Lord Abbett Credit Opportunities Fund; Institutional Class Shares	LCRDY
Oaktree Diversified Income Fund Inc; Class D Shares	ODIDX
PIMCO Access Income Fund	XPAAX
PIMCO Dynamic Income Fund	XPDIY
PIMCO Dynamic Income Opportunities Fund	XPDOX
PIMCO Dynamic Income Strategy Fund	XPDDX
PIMCO Strategic Income Fund, Inc	XRCSX
Saba Capital Income & Opportunities Fund II	XSABX

**Lipper Closed-End Growth Funds Index**

AMG Pantheon Fund, LLC; Class 1 Shares	XPEBX
Bow River Capital Evergreen Fund; Class I Shares	EVERX
Central Securities Corporation	
Cornerstone Strategic Investment Fund, Inc.	XCLMX
Gabelli Equity Trust, Inc	XGABX
General American Investors Company, Inc	XGAMX
Liberty All-Star Growth Fund, Inc	XASGX
Royce Micro-Cap Trust, Inc	XOTCX
Royce Small-Cap Trust, Inc	XRVTX
Sprott Focus Trust, Inc	XFUNX

**Lipper Closed-End Income & Preferred Funds Index**

Calamos Strategic Total Return Fund	XCSQX
Cohen & Steers Tax-Advantaged Preferred Securities and Income Fund	XPTAX
First Trust Alternative Opportunities Fund; Class I Shares	VFLEX
First Trust Intermediate Duration Preferred & Income Fund	XFPFX
Flaherty & Crumrine Preferred and Income Securities Fund Incorporated	XFFCX
John Hancock Preferred Income Fund	XHPIX
John Hancock Preferred Income Fund III	XHPSX
John Hancock Premium Dividend Fund	XPDTX
Nuveen Preferred & Income Opportunities Fund	XJPCX
Variant Alternative Income Fund; Institutional Class Shares	NICHX

**Lipper Closed-End Options Arbitrage/Option Strategies Funds I**

BlackRock Enhanced Equity Dividend Trust	XBDJX
BlackRock ESG Capital Allocation Term Trust	XESGX
Eaton Vance Enhanced Equity Income Fund II	XEOSX
Eaton Vance Tax-Managed Buy-Write Opportunities Fund	XETVX
Eaton Vance Tax-Managed Diversified Equity Income Fund	XETYX
Eaton Vance Tax-Managed Global Buy-Write Opportunities Fund	XETWX
Eaton Vance Tax-Managed Global Diversified Equity Income Fund	XEXGX
Nuveen Nasdaq 100 Dynamic Overwrite Fund	XQQQX
Nuveen S&P 500 Buy-Write Income Fund	XBXMV
Virtus Dividend, Interest & Premium Strategy Fund	XNFXJ

**Lipper Closed-End Real Estate Index**

abrdn Global Premier Properties Fund	XAWPX
Apollo Diversified Real Estate Fund; Class A Shares	GIREX
Bluerock Total Income+ Real Estate Fund; Class I Shares	TIPWX
CBRE Global Real Estate Income Fund	XIGRX
CIM Real Assets & Credit Fund; Class I Common Shares	IRACX
Clarion Partners Real Estate Income Fund Inc; Class I Common Shares	CPREX
Cohen & Steers Quality Income Realty Fund, Inc	XRQIX
Cohen & Steers REIT & Preferred & Income Fund, Inc	XRNPX
Cohen & Steers Total Return Realty Fund, Inc	XRFXI
Versus Capital Real Estate Fund LLC; Class I Shares	VCMIX

**Lipper Closed-End Sector Equity Funds Index**

abrdn Healthcare Investors	XHQHX
abrdn Healthcare Opportunities Fund	XTHQX
BlackRock Health Sciences Term Trust	XBMZX
BlackRock Innovation and Growth Term Trust	XBIGX
BlackRock Science and Technology Term Trust	XBSZX
BlackRock Science and Technology Trust	XBSTX
Hamilton Lane Private Assets Fund; Class I Shares	XHLIX
Neuberger Berman Next Generation Connectivity Fund Inc.	XNBGX
The Private Shares Fund; Class I Shares	PIIVX
Versus Capital Real Assets Fund LLC	VCRRX

**Fixed Income****Lipper Closed-End California Municipal Funds Index**

BlackRock California Municipal Income Trust	XBFBZX
BlackRock MuniHoldings California Quality Fund, Inc.	XMUCX
Eaton Vance California Municipal Bond Fund	XEVMX
Invesco California Value Municipal Income Trust	XVCVX
Nuveen California AMT-Free Quality Municipal Income Fund	XNCMX
Nuveen California Municipal Value Fund	XNCAX
Nuveen California Quality Municipal Income Fund	XNACX
PIMCO California Municipal Income Fund	XPCQX
PIMCO California Municipal Income Fund II	XPCKX
PIMCO California Municipal Income Fund III	XPZCX

**Lipper Closed-End Emerging Market Debt Funds Index**

Morgan Stanley Emerging Markets Debt Fund, Inc	XMSDX
Morgan Stanley Emerging Markets Domestic Debt Fund, Inc	XEDDX
PIMCO Flexible Emerging Markets Income Fund; Institutional Class Shares	EMFLX
Templeton Emerging Markets Income Fund	XTEIX
Virtus Stone Harbor Emerging Markets Income Fund	XEDFX
Western Asset Emerging Markets Debt Fund Inc.	XEMDX

**Lipper Closed-End Emerging Markets Funds Index**

abrdn Emerging Markets Equity Income Fund, Inc	XAEFX
China Fund, Inc	
India Fund, Inc	XIFNX
Korea Fund, Inc	XKFDX
Mexico Fund, Inc	
Morgan Stanley China A Share Fund, Inc	XCAFX
Morgan Stanley India Investment Fund, Inc	XIIFX
Taiwan Fund, Inc.	
Templeton Dragon Fund, Inc	XTDFX
Templeton Emerging Markets Fund	XEMFX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Closed-End General Bond Funds Index**

Allspring Multi-Sector Income Fund	XERCX
Ares Dynamic Credit Allocation Fund, Inc	XADCX
BlackRock Credit Strategies Fund; Institutional Class Shares	CREDX
BlackRock Multi-Sector Income Trust	XBITX
BlackRock Taxable Municipal Bond Trust	XBBNX
CION Ares Diversified Credit Fund; Class I Shares	CADUX
City National Rochdale Select Strategies Fund	CNRLX
DoubleLine Funds: DoubleLine Opportunistic Credit Fund	XDBLX
Eaton Vance Limited Duration Income Fund	XEVVX
First Eagle Credit Opportunities Fund; Class I Shares	FECRX
Franklin Limited Duration Income Trust	XFTFX
FS Credit Income Fund; Class I Shares	FCRIX
FS Credit Opportunities Corp.	XFSCX
Guggenheim Taxable Municipal Bond & Investment Grade Debt Trust	XGBAX
John Hancock Investors Trust	XJHIX
KKR Credit Opportunities Portfolio; Class U Shares	KCOUX
MFS Charter Income Trust	XMCRX
MFS Multimarket Income Trust	XMMTX
Nuveen Core Plus Impact Fund	XNPCX
Nuveen Taxable Municipal Income Fund	XNBBX
Palmer Square Opportunistic Income Fund	PSOIX
PIMCO Corporate & Income Opportunity Fund	XPTYX
PIMCO Corporate & Income Strategy Fund	XPCNX
PIMCO High Income Fund	XPHKX
PIMCO Income Strategy Fund	XPFLX
PIMCO Income Strategy Fund II	XPFNX
Putnam Premier Income Trust	XPPTX
Western Asset Diversified Income Fund	XWDIX
Western Asset Inflation-Linked Income Fund	XWIAX
Western Asset Inflation-Linked Opportunities & Income Fund	XWIWX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Closed-End General Leveraged Municipal Debt Funds In**

BlackRock Municipal 2030 Target Term Trust	XBTTX
BlackRock Municipal Income Trust	XBFKX
BlackRock Municipal Income Trust II	XBLEX
BlackRock MuniHoldings Fund, Inc.	XMHDX
BlackRock MuniVest Fund, Inc.	XMVFX
BlackRock MuniYield Fund, Inc.	XMYDX
BlackRock MuniYield Quality Fund III, Inc.	XMYIX
BlackRock MuniYield Quality Fund, Inc.	XMQYX
BNY Mellon Strategic Municipals, Inc	XLEOX
DWS Municipal Income Trust	XKTFX
Eaton Vance Municipal Bond Fund	XEIMX
Eaton Vance Municipal Income Trust	XEVNX
Invesco Advantage Municipal Income Trust II	XVKIX
Invesco Municipal Opportunity Trust	XVMOX
Invesco Municipal Trust	XVKQX
Invesco Quality Municipal Income Trust	XIQIX
Invesco Trust for Investment Grade Municipals	XVGMX
Invesco Value Municipal Income Trust	XIIMX
Nuveen AMT-Free Municipal Credit Income Fund	XNVGX
Nuveen AMT-Free Quality Municipal Income Fund	XNEAX
Nuveen Dynamic Municipal Opportunities Fund	XNDMX
Nuveen Municipal Credit Income Fund	XNZFX
Nuveen Municipal Value Fund, Inc	XNUVX
Nuveen Quality Municipal Income Fund	XNADX
NYLI MacKay DefinedTerm Muni Opportunities Fund	XMMDX
PIMCO Flexible Municipal Income Fund; Institutional Class Shares	PMFLX
PIMCO Municipal Income Fund II	XPMLX
Putnam Municipal Opportunities Trust	XPMOX
RiverNorth Flexible Municipal Income Fund II Inc.	XRFXZ
Western Asset Managed Municipals Fund Inc	XMMUX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Closed-End High Yield Leveraged Bond Funds Index**

abrdn Income Credit Strategies Fund	XACPX
AllianceBernstein Global High Income Fund, Inc	XAWFX
Allspring Income Opportunities Fund	XEADX
Barings Global Short Duration High Yield Fund	XBGHX
BlackRock Corporate High Yield Fund, Inc.	XHYTX
BlackRock Limited Duration Income Trust	XBLWX
BNY Mellon High Yield Strategies Fund	XDHFx
Brookfield Real Assets Income Fund Inc	XRAIX
Credit Suisse Asset Management Income Fund, Inc	XCIKX
Credit Suisse High Yield Bond Fund	XDHYX
DoubleLine Income Solutions Fd	XDSLX
DoubleLine Yield Opportunities Fund	XDLYX
First Trust High Yield Opportunities 2027 Term Fund	XFABX
Franklin Universal Trust	XFUTX
Guggenheim Strategic Opportunities Fund	XGOFX
Invesco High Income Trust II	XVLTX
KKR Income Opportunities Fund	XKIOX
MFS Intermediate High Income Fund	XCIFX
Neuberger Berman High Yield Strategies Fund Inc.	XNHSX
New America High Income Fund, Inc.	
Nuveen Global High Income Fund	XJGHX
PGIM Global High Yield Fund, Inc	XGHYX
PGIM High Yield Bond Fund, Inc	XISDX
PGIM Short Duration High Yield Opportunities Fund	XSDHX
PIMCO Flexible Credit Income Fund; Institutional Class Shares	PFLEX
Pioneer Diversified High Income Fund, Inc.	XHNWX
Pioneer High Income Fund, Inc.	XPHTX
Pioneer ILS Interval Fund	XILSX
Western Asset Global High Income Fund Inc.	XEHIX
Western Asset High Income Fund II Inc	XHGIX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Closed-End High Yield Municipal Funds Index**

BlackRock MuniAssets Fund, Inc.	XMUAX
Invesco Municipal Income Opportunities Trust	XOIAX
MFS Municipal Income Trust	XMFMX
Nuveen Municipal Credit Opportunities Fund	XNMCX
Nuveen Municipal High Income Opportunity Fund	XNMZX
Pioneer Municipal High Income Advantage Fund, Inc.	XPMAX
Pioneer Municipal High Income Fund, Inc.	XMHIX
Pioneer Municipal High Income Opportunities Fund, Inc.	XMIOX
Putnam Managed Municipal Income Trust	XPMMX
Western Asset Municipal High Income Fund Inc	XMHFX

**Lipper Closed-End Investment Grade Funds Index**

Angel Oak Financial Strategies Income Term Trust	XFINX
BlackRock Core Bond Trust	XBHKX
BlackRock Credit Allocation Income Trust	XB TZX
Insight Select Income Fund	
Invesco Bond Fund	XVBFX
John Hancock Income Securities Trust	XJHSX
MFS Intermediate Income Trust	XMINX
Western Asset Investment Grade Income Fund Inc.	XPAIX
Western Asset Investment Grade Opportunity Trust	XIGIX
Western Asset Premier Bond Fund	XWEAX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Closed-End Loan Participation Funds Index**

1WS Credit Income Fund; Institutional Class Shares	OWSCX
Apollo Diversified Credit Fund; Class I Shares	CRDIX
Axonic Alternative Income Fund; Institutional Class Shares	AAIDX
BlackRock Debt Strategies Fund, Inc.	XDSUX
BlackRock Floating Rate Income Strategies Fund, Inc.	XFRAX
BlackRock Floating Rate Income Trust	XBGTX
Blackstone Long-Short Credit Income Fund	XXBGX
Blackstone Senior Floating Rate 2027 Term Fund	XBSLX
Blackstone Strategic Credit 2027 Term Fund	XBGBX
City National Rochdale Strategic Credit Fund	CNROX
Cliffwater Corporate Lending Fund; Class I Shares	CCLFX
Cliffwater Enhanced Lending Fund; Class I Shares	CELFX
Eagle Point Credit Company Inc	
Eagle Point Income Company Inc	
Eaton Vance Floating-Rate Income Trust	XEFTX
Eaton Vance Senior Floating-Rate Trust	XEFRX
Federated Hermes Project and Trade Finance Tender Fund	XPTFX
First Trust Senior Floating Rate Income Fund II	XFCTX
Flat Rock Core Income Fund	CORFX
Flat Rock Enhanced Income Fund	FRBBX
Highland Opportunities and Income Fund	XHFOX
Invesco Dynamic Credit Opportunity Fund; Class AX Shares	XAXCX
Invesco Senior Income Trust	XVVRX
Invesco Senior Loan Fund; Class IB Shares	XPRTX
Nuveen Credit Strategies Income Fund	XJQCX
Nuveen Floating Rate Income Fund	XJFRX
Pioneer Floating Rate Fund, Inc.	XPHDX
Saba Capital Income & Opportunities Fund	XBRWX
XAI Octagon Floating Rate & Alternative Income Trust	XFLTIX
YieldStreet Alternative Income Fund Inc.	



**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Closed-End New York Municipal Debt Funds Index**

BlackRock MuniHoldings New York Quality Fund, Inc.	XMHNX
BlackRock MuniYield New York Quality Fund, Inc.	XYNYX
BlackRock New York Municipal Income Trust	XBNYX
Eaton Vance New York Municipal Bond Fund	XENWX
Invesco Trust for Investment Grade New York Municipals	XVTNX
Nuveen New York AMT-Free Quality Municipal Income Fund	XNRKX
Nuveen New York Municipal Value Fund	XNNYX
Nuveen New York Quality Municipal Income Fund	XNANX
PIMCO New York Municipal Income Fund	XPNFX
PIMCO New York Municipal Income Fund II	XPNIX

**Lipper Closed-End Other States Municipal Debt Funds Index**

BlackRock MuniYield Michigan Quality Fund, Inc.	XMIYX
BlackRock Virginia Municipal Bond Trust	XBHVX
Nuveen Arizona Quality Municipal Income Fund	XNAZX
Nuveen Massachusetts Quality Municipal Income Fund	XNMTX
Nuveen Minnesota Quality Municipal Income Fund	XMNSX
Nuveen Missouri Quality Municipal Income Fund	XNOMX
Nuveen Virginia Quality Municipal Income Fund	XNPVX

**Variable****General Variable****Lipper Variable Annuity Balanced Funds Index**

Am Natl VA Sep Acct: VIP V Fundsmanager 50%; Svc CI 2/WithQuest III Grp Unallocated VA CI B  
 Am Natl VA Sep Acct: Alger Balanced; CI I-2/WithQuest III Grp Unallocated VA CI B  
 Hartford Lf Ins Co Sep Acct VL I: Putnam VT George Putnam Fund of Boston; CI IA/Stag VL Artisan  
 John Hancock VL Acct S: John Hancock Tr Lifestyle Balanced; NAV/Majestic Var COLI VL  
 John Hancock VL Acct S: John Hancock Tr Lifestyle Moderate; NAV/Majestic Var COLI VL  
 NML VA Acct B: Northwestern Mutual Balanced/Front Load ED VA  
 NML VA Acct B: Russell Inv Fd Balanced Strategy/Back Load VA  
 Phx Lf Var Accum Acct: AllianceBernstein VP Balanced Wealth Strategy; CI B/Phx Inv's Edge CI L  
 Prudential Var Apprec Acct: Pru Srs Fd Conservative Balanced; CI I/VAL VL  
 Union Central Carillon Acct: MFS Var Ins Tr Total Return; Init CI/VA CI 1

**Lipper Variable Annuity Core Bond Funds Index**

Am Natl VA Sep Acct: Federated Quality Bond II; Primary/WithQuest III Grp Unallocated VA CI B  
 Ameritas Lf Ins Co Sep Acct LLVL: Vanguard VIF Total Bond Market Index; Inv Sh CI/Low-Load VUL  
 Ameritas Var Sep Acct VA-2: VIP V Investment Grade Bond; Svc CI 2/Ovrtr Medley! VA  
 College Retirement Equities Fund: Bond Market Acct  
 Hartford Lf Ins Co Sep Acct VL I: Hartford Total Return Bond HLS; CI IA/Stag VL  
 Hartford Lf Ins Co Sep Acct VL I: Hartford Total Return Bond HLS; CI IA/Stag VL Artisan  
 Hartford Lf Ins Co Sep Acct VL II: Putnam VT Income; CI IA/Stag VL Last Survivor  
 John Hancock VL Acct UV: John Hancock Tr Total Bond Market B; NAV/Flex-V1 VL  
 NML VA Acct B: Northwestern Mutual Select Bond/Front Load ED VA  
 Pacific Select Sep Acct: Pacific Select Fd Managed Bond/Select VA

**Lipper Variable Annuity Emerging Markets Funds Index**

Ameritas Var Sep Acct VA-2: Univ Inst Fd Emerging Markets Equity; CI I/Ovrtr Medley! VA  
 Hartford Lf Ins Co Sep Acct VL II: Putnam VT International Growth; CI IA/Stag VL Last Survivor  
 Jackson National Sep Acct-I: JNL/American Funds New World; CI A/Perspective II CI B  
 Jackson National Sep Acct-I: JNL/Lazard Emerging Markets; CI A/Perspective II VA  
 Nationwide Var Acct-II: Van Eck VIP Trust Emerging Markets; Init CI/BOA IV VA  
 NML VA Acct B: Northwestern Emerging Markets Equity/Front Load ED  
 Phoenix Lf Var Accum Acct: Franklin Temp VIP Tr Developing Markets Securities; CI 1/Templeton Inv PI VA

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper Variable Annuity Equity Income Funds Index**

Amer General Lf Ins Co Sep Acct D: Principal Equity Income; CI 1 Shs/WM Strat Asst Mgr VA  
American National VA Separate Account: Invesco VI Diversified Div; Srs I/Withquest III Grp Unallocated VA CI  
Ameritas Lf Ins Co Sep Acct LLVL: Vanguard VIF Equity Income; Inv Sh CI/Low-Load VUL  
Hartford Lf Ins Co Sep Acct VL I: VIP Equity-Income; Init CI/Stag VL  
Hartford Lf Ins Co Sep Acct VL I: VIP Equity-Income; Init CI/Stag VL Artisan  
John Hancock VL Acct S: John Hancock Tr Equity-Income; NAV/Majestic Var COLI VL  
Nationwide Provident VLI Sep Acct 1: Nationwide Van Kampen NVIT Comstock Value; CI IV/Optn Prmr VUL  
NML VA Acct B: Northwestern Mutual Equity Income/Front Load ED VA  
Pruco Lf Flex Prem VA Acct: T Rowe Price Eqty Srs Equity Income/Discovery Select VA

**Lipper Variable Annuity Global Funds Index**

Ameritas Var Sep Acct VA-2: Invesco Van Kampen VI Global Value Equity; CI I/Ovrtr Medley! VA  
Ameritas Var Sep Acct VA-2: Third Avenue Value/Ovrtr Medley! VA  
College Retirement Equities Fund: Global Equities Acct  
College Retirement Equities Fund: Stock Acct  
John Hancock VL Acct S: John Hancock Tr Global; NAV/Majestic Var COLI VL  
Prudential Var Apprec Acct: Pru Srs Fd Global; CI I/Custm VAL 100 VL  
Union Central Carillon Acct: Franklin Templeton VIP Tr Temp Growth Securities; CI 2//Advantage VA III  
Union Central Carillon Acct: Oppenheimer Global Securities/VA; Non-Svc Shs//VA CI 1

---

**Lipper Variable Annuity Growth & Income Funds Index**

Am Natl VA Sep Acct: VIP V Freedom 2025; Svc CI 2/WithQuest III Grp Unallocated VA CI B  
 Am Natl VA Sep Acct: VIP V Freedom 2030; Svc CI 2/WithQuest III Grp Unallocated VA CI B  
 Am Natl VA Sep Acct: Alger Growth & Income; CI I-2/WithQuest III Grp Unallocated VA CI B  
 Am Natl VA Sep Acct: VIP III Growth & Income; Svc CI 2/WithQuest III Grp Unallocated VA CI B  
 Ameritas Var Sep Acct VA-2: Calvert VP SRI Balanced/Ovrtr Medley! VA  
 Hartford Lf Ins Co Sep Acct VL I: Hartford Advisers HLS; CI IA/Stag VL  
 Hartford Lf Ins Co Sep Acct VL I: Hartford Advisers HLS; CI IA/Stag VL Artisan  
 Hartford Lf Ins Co Sep Acct VL II: Putnam VT Multi-Cap Growth; CI IA/Stag VL Last Survivor  
 John Hancock VL Acct S: John Hancock Tr Total Stock Market Index; NAV/Majestic Var COLI VL  
 John Hancock VL Sep Acct V: John Hancock Tr Optimized All Cap; NAV/Flex-V1 VL  
 NML VA Acct A: NB AMT Socially Responsive; CI I/Indiv Flex Payment VA (Fee Based) CI C  
 NML VA Acct A: Northwestern Mutual Lrg Co Value/Indiv Flex Payment VA (Fee Based) CI C  
 NML VA Acct B: Northwestern Mutual Asset Allocation/Front Load ED VA  
 NML VA Acct B: Northwestern Mutual Domestic Equity/Front Load ED VA  
 NML VA Acct B: Northwestern Mutual Large Cap Blend/Back Load VA  
 NML VA Acct B: Northwestern Mutual Large Cap Core Stock/Front Load ED VA  
 NML VA Acct B: Russell Inv Fd Growth Strategy/Back Load VA  
 NML VL Acct: Russell Inv Fd Multi-Style Equity/Var CompLife VL  
 Pacific Select Exec Sep Acct: M Fund M Large Cap Value/Select Exec VUL  
 Pruco Lf Flex Prem VA Acct: Davis Var Acct Fd Value/Discovery Select VA  
 Pruco Lf Flex Prem VA Acct: Invesco VI Core Equity; Srs I/Discovery Select VA  
 Pruco Lf Flex Prem VA Acct: MFS Var Ins Tr Research; Init CI/Discovery Select VA  
 Pruco Lf Var Apprec Acct: Amer Cent VP Value; CI I/VUL  
 Prudential Var Apprec Acct: Pru Srs Fd Equity; CI I/Custm VAL 100 VL  
 Prudential Var Apprec Acct: Pru Srs Fd Equity; CI I/Custom VAL VL  
 Prudential Var Apprec Acct: Pru Srs Fd Flexible Managed; CI I/VAL VL  
 Prudential Var Apprec Acct: Pru Srs Fd Value; CI I/Custm VAL 100 VL  
 Prudential Var Apprec Acct: Pru Srs Fd Value; CI I/Custom VAL VL  
 TIAA Sep Acct VA-1: Stock Index/Teachers Personal Annuity VA  
 Union Central Carillon Acct: MFS Var Ins Tr Investors Trust; Init CI//VA CI 1

---

**Lipper Variable Annuity Growth Funds Index**

Am Natl VA Sep Acct: VIP V Fundsmanager 85%; Svc CI 2/WithQuest III Grp Unallocated VA CI B  
 Am Natl VA Sep Acct: VIP V T Rowe Price Eq Personal Strategy Balanced/WithQuest III Grp Unallocated VA CI B  
 Am Natl VA Sep Acct: Alger Capital Appreciation; CI I-2/WithQuest III Grp Unallocated VA CI B  
 Am Natl VA Sep Acct: Alger LargeCap Growth; CI I-2/WithQuest III Grp Unallocated VA CI B  
 Am Natl VA Sep Acct: Federated Kaufmann II; Primary/WithQuest III Grp Unallocated VA CI B  
 Am Natl VA Sep Acct: VIP III Growth Opportunity; Svc CI 2/WithQuest III Grp Unallocated VA CI B  
 Ameritas Lf Ins Co Sep Acct LLVL: Rydex Var Tr NASDAQ-100/Low-Load VUL  
 Ameritas Lf Ins Co Sep Acct LLVL: Vanguard VIF Growth; Inv Sh CI/Low-Load VUL  
 Ameritas Var Sep Acct VA-2: VIP Growth; Init CI/Ovrtr Ann II VA  
 Ameritas Var Sep Acct VA-2: VIP V Asset Manager; Init CI/Ovrtr Ann II VA  
 Hartford Lf Ins Co Sep Acct VL I: Putnam VT Global Asset Allocation; CI IA/Stag VL  
 Hartford Lf Ins Co Sep Acct VL I: Putnam VT Global Asset Allocation; CI IA/Stag VL Artisan  
 IL Ann & Ins Co Sep Acct 1: Pioneer VC Tr Growth Opportunities; CI I/Visionary Choice VA  
 John Hancock VL Acct S: John Hancock Tr Blue Chip Growth; NAV/Majestic Var COLI VL  
 John Hancock VL Acct S: John Hancock Tr Capital Appreciation; NAV/Majestic Var COLI VL  
 John Hancock VL Acct S: John Hancock Tr Lifestyle Growth; NAV/Majestic Var COLI VL  
 John Hancock VL Acct S: John Hancock Tr Mid Cap Stock; NAV/Majestic Var COLI VL  
 John Hancock VL Acct S: M Fund M Large Cap Growth/Majestic VUL 98  
 NML VA Acct A: VIP II Contrafund; Svc CI 2/Indiv Flex Payment VA (Fee Based) CI C  
 NML VA Acct B: Northwestern Mutual Growth Stock/Front Load ED VA  
 NML VA Acct B: Russell Inv Fd Equity Growth Strategy/Back Load VA  
 NML VA Acct B: Russell Inv Fd Moderate Strategy/Back Load VA  
 Pacific Select Exec Sep Acct: Pacific Select Fd Focused 30/Select Exec VUL  
 Pacific Select Sep Acct: Pacific Select Fd Growth LT/Select VA  
 Pruco Lf Flex Prem VA Acct: AllianceBernstein VP Large Cap Growth; CI B/Discovery Select VA  
 Pruco Lf Var Apprec Acct: Janus Aspen Janus; Inst Shs/VUL  
 Pruco Lf Var Apprec Acct: MFS Var Ins Tr Growth; Init CI/VUL  
 Prudential Var Apprec Acct: Pru Srs Fd Jennison; CI I/Custm VAL 100 VL  
 Prudential Var Apprec Acct: Pru Srs Fd Jennison; CI I/Custom VAL VL  
 Union Central Carillon Acct: DWS I Capital Growth; CI A//VA CI 1

**Lipper Variable Annuity High Yield Funds Index**

Am Natl VA Sep Acct: Federated High Income Bond II; Primary/WithQuest III Grp Unallocated VA CI B  
 Ameritas Lf Ins Co Sep Acct LLVL: Vanguard VIF High Yield Bond; Inv Sh CI/Low-Load VUL  
 Ameritas Var Sep Acct VA-2: VIP High Income; Svc CI 2/Ovrtr Medley! VA  
 Hartford Lf Ins Co Sep Acct VL II: Putnam VT High Yield; CI IA/Stag VL Last Survivor  
 John Hancock VL Acct S: John Hancock Tr High Yield; NAV/Majestic Var COLI VL  
 NML VA Acct B: Northwestern Mutual High Yield Bond/Front Load ED VA  
 Pacific Select Sep Acct: Pacific Select Fd High Yield Bond/Select VA  
 Prudential Var Apprec Acct: Pru Srs Fd High Yield Bond; CI I/Custm VAL 100 VL  
 Prudential Var Apprec Acct: Pru Srs Fd High Yield Bond; CI I/Custom VAL VL

**Lipper Variable Annuity Income Funds Index**

Am Natl VA Sep Acct: VIP V Freedom 2010; Svc CI 2/WithQuest III Grp Unallocated VA CI B  
 Am Natl VA Sep Acct: VIP V Freedom 2015; Svc CI 2/WithQuest III Grp Unallocated VA CI B  
 Am Natl VA Sep Acct: VIP V Freedom 2020; Svc CI 2/WithQuest III Grp Unallocated VA CI B  
 Am Natl VA Sep Acct: VIP V Fundsmanager 20%; Svc CI 2/WithQuest III Grp Unallocated VA CI B  
 Am Natl VA Sep Acct: Federated Cap Income II/WithQuest III Grp Unallocated VA CI B  
 Amer General Lf Ins Co Sep Acct D: Principal SAM Flexible Income; CI 1 Shs/WM Strat Asst Mgr VA  
 John Hancock VL Acct S: John Hancock Tr Lifestyle Conservative; NAV/Majestic Var COLI VL

**Lipper Variable Annuity International Funds Index**

Hartford Lf Ins Co Sep Acct VL I: Hartford International Opportunities HLS; CI IA/Stag VL  
 Hartford Lf Ins Co Sep Acct VL I: Hartford International Opportunities HLS; CI IA/Stag VL Artisan  
 Hartford Lf Ins Co Sep Acct VL I: Putnam VT International Equity; CI IA/Stag VL  
 John Hancock VL Acct S: John Hancock Tr International Equity Index B; NAV/Majestic VUL 98  
 NML VA Acct A: Northwestern Mutual Research International Core/Indiv Flex Payment VA (Fee Based) CI C  
 NML VA Acct B: Northwestern Mutual International Equity/Front Load ED VA  
 NML VA Acct B: Northwestern Mutual International Growth/Front Load ED VA  
 NML VL Acct: Russell Inv Fd Non-U S/Var Complife VL  
 Pruco Lf Flex Prem VA Acct: Janus Aspen Overseas; Inst Shs/Discovery Select VA  
 Pruco Lf Var Univ Acct: T Rowe Price Intl Srs International Stock/Prusel II VUL

**Lipper Variable Annuity Mid-Cap Funds Index**

Am Natl VA Sep Acct: Alger Mid Cap Growth; CI I-2/WlthQuest III Grp Unallocated VA CI B  
 Ameritas Var Sep Acct VA-2: Calvert VP S&P MidCap 400 Index; Cls I Shs/Ovrtr Medley! VA  
 John Hancock VL Acct S: John Hancock Tr Mid Cap Index; NAV/Majestic Var COLI VL  
 John Hancock VL Acct UV: John Hancock Tr Mid Value; NAV/Flex-V1 VL  
 NML VA Acct B: Northwestern Mutual Mid Cap Growth Stock/Front Load ED VA  
 NML VA Acct B: Northwestern Mutual Mid Cap Value/Front Load ED VA  
 NML VL Acct: Northwestern Mutual Index 400 Stock/Var CompLife VL  
 NML VL Acct: VIP III Mid Cap; Svc CI 2/Var CompLife VL  
 Pruco Lf Flex Prem VA Acct: Franklin Temp VIP Tr Franklin Small-Mid Cap Growth Secs; CI 2/Discovery Select VA  
 Pruco Lf Var Univ Acct: Pru Srs Fd SP Prudential US Emerging Growth/PruLife Cust Prem VUL

**Lipper Variable Annuity S&P 500 Index Funds Index**

Amer General Lf Ins Co Sep Acct VL-R: VALIC Co I Stock Index//Plat Inv III VL  
 Amer General Lf Ins Co Sep Acct VUL-2: VIP II Index 500; Init CI/EquiBldr II/III VUL  
 Ameritas Lf Ins Co Sep Acct LLVL: Vanguard VIF Equity Index; Inv Sh CI/Low-Load VUL  
 John Hancock VL Acct S: John Hancock Tr 500 Index B; NAV/Majestic VUL 98  
 NML VA Acct B: Northwestern Mutual Index 500 Stock/Back Load VA  
 Pacific Select Sep Acct: Pacific Select Fd Equity Index/Select VA  
 Prudential Var Apprec Acct: Pru Srs Fd Stock Index; CI I/VAL VL  
 Union Central Carillon Acct: Calvert VP S&P 500 Index//VA CI 1

**Lipper Variable Annuity Small-Cap Funds Index**

Ameritas Var Sep Acct VA-2: Calvert VP Russell 2000 Small Cap Index; CI I/Ovrtr Medley! VA  
 John Hancock VL Acct S: M Fund M Capital Appreciation/Majestic VUL 98  
 NML VA Acct A: Northwestern Mutual Index 600 Stock/Indiv Flex Payment VA (Fee Based) CI C  
 NML VL Acct: Northwestern Mutual Small Cap Growth Stock/Var CompLife VL  
 NML VL Acct: Northwestern Mutual Small Cap Value/Var CompLife VL  
 NML VL Acct: Russell Inv Fd Aggressive Equity/Var CompLife VL  
 Prudential Var Apprec Acct: Pru Srs Fd Small Capitalization Stock; CI I/Custm VAL 100 VL  
 Prudential Var Apprec Acct: Pru Srs Fd Small Capitalization Stock; CI I/Custom VAL VL  
 Union Security Var Acct C: Hartford SmallCap Growth HLS; CI IA/Wall St VUL 220  
 Union Security Var Acct C: Hartford SmallCap Growth HLS; CI IA/Wall St VUL 500

## USDE Variable

**Lipper Variable Annuity Large-Cap Core Funds Index**

Am Natl VA Sep Acct: Alger Growth & Income; CI I-2/WithQuest III Grp Unallocated VA CI B  
 Hartford Lf Ins Co Sep Acct VL II: Putnam VT Multi-Cap Growth; CI IA/Stag VL Last Survivor  
 NML VA Acct A: NB AMT Socially Responsive; CI I/Indiv Flex Payment VA (Fee Based) CI C  
 NML VA Acct B: Northwestern Mutual Large Cap Core Stock/Front Load ED VA  
 Pruco Lf Flex Prem VA Acct: Invesco VI Core Equity; Srs I/Discovery Select VA  
 Pruco Lf Flex Prem VA Acct: MFS Var Ins Tr Research; Init CI/Discovery Select VA  
 Prudential Var Apprec Acct: Pru Srs Fd Equity; CI I/Custm VAL 100 VL  
 Prudential Var Apprec Acct: Pru Srs Fd Equity; CI I/Custom VAL VL  
 Union Central Carillon Acct: MFS Var Ins Tr Investors Trust; Init CI//VA CI 1  
 Union Central Carillon Acct: Oppenheimer Main Street/VA; Non-Svc Shs//VA CI 1

**Lipper Variable Annuity Large-Cap Growth Funds Index**

John Hancock VL Acct S: John Hancock Tr Capital Appreciation; NAV/Majestic Var COLI VL  
 John Hancock VL Acct S: M Fund M Large Cap Growth/Majestic VUL 98  
 NML VA Acct A: VIP II Contrafund; Svc CI 2/Indiv Flex Payment VA (Fee Based) CI C  
 NML VA Acct B: Northwestern Mutual Focused Appreciation/Back Load ED VA  
 NML VA Acct B: Northwestern Mutual Growth Stock/Front Load ED VA  
 Pacific Select Exec Sep Acct: Pacific Select Fd Focused 30/Select Exec VUL  
 Pruco Lf Var Apprec Acct: Janus Aspen Janus; Inst Shs/VUL  
 Pruco Lf Var Apprec Acct: MFS Var Ins Tr Growth; Init CI/VUL  
 Prudential Var Apprec Acct: Pru Srs Fd Jennison; CI I/Custm VAL 100 VL  
 Prudential Var Apprec Acct: Pru Srs Fd Jennison; CI I/Custom VAL VL

**Lipper Variable Annuity Mid-Cap Growth Funds Index**

Am Natl VA Sep Acct: Alger Mid Cap Growth; CI I-2/WithQuest III Grp Unallocated VA CI B  
 Am Natl VA Sep Acct: T Rowe Price Eqty Srs Mid-Cap Growth/WithQuest III Grp Unallocated VA CI B  
 Ameritas Lf Ins Corp Sep Acct LLVA: Wells Fargo Advantage VT Discovery/No-Load VA  
 NML VL Acct: Northwestern Mutual Mid Cap Growth Stock/Var CompLife VL  
 Pruco Lf Flex Prem VA Acct: Franklin Temp VIP Tr Franklin Small-Mid Cap Growth Secs; CI 2/Discovery Select VA  
 Pruco Lf Var Univ Acct: Janus Aspen Enterprise; Svc Shs/Pruselect III VA  
 Pruco Lf Var Univ Acct: Oppenheimer Small- & Mid-Cap Growth/VA; Svc Shs/Pruselect III VUL  
 Pruco Lf Var Univ Acct: Pru Srs Fd SP Prudential US Emerging Growth/PruLife Cust Prem VUL



**Lipper Variable Annuity Mixed-Asset Target Allocation Growth**

Am Natl VA Sep Acct: VIP V Fundsmanager 60%; Svc CI 2/WithQuest III Grp Unallocated VA CI B  
 Am Natl VA Sep Acct: VIP V Fundsmanager 70%; Svc CI 2/WithQuest III Grp Unallocated VA CI B  
 Ameritas Lf Ins Co Sep Acct LLVL: Vanguard VIF Balanced; Inv Sh CI/Low-Load VUL  
 Ameritas Var Sep Acct VA-2: Calvert VP SRI Balanced/Ovrtr Medley! VA  
 Ameritas Var Sep Acct VA-2: VIP V Asset Manager: Growth; Init CI/Ovrtr Ann III PI VA  
 Hartford Lf Ins Co Sep Acct VL I: Hartford Advisers HLS; CI IA/Stag VL  
 Hartford Lf Ins Co Sep Acct VL I: Hartford Advisers HLS; CI IA/Stag VL Artisan  
 NML VA Acct B: Northwestern Mutual Asset Allocation/Back Load ED VA  
 NML VA Acct B: Russell Inv Fd Growth Strategy/Back Load VA  
 Prudential Var Apprec Acct: Pru Srs Fd Flexible Managed; CI I/VAL VL

**Lipper Variable Annuity Mixed-Asset Target Allocation Modera**

Am Natl VA Sep Acct: VIP V Fundsmanager 50%; Svc CI 2/WithQuest III Grp Unallocated VA CI B  
 Am Natl VA Sep Acct: VIP V T Rowe Price Eq Personal Strategy Balanced/WithQuest III Grp Unallocated VA CI B  
 Am Natl VA Sep Acct: Alger Balanced; CI I-2/WithQuest III Grp Unallocated VA CI B  
 Ameritas Var Sep Acct VA-2: VIP V Asset Manager; Init CI/Ovrtr Ann II VA  
 Hartford Lf Ins Co Sep Acct VL I: Putnam VT Global Asset Allocation; CI IA/Stag VL Artisan  
 NML VA Acct B: Northwestern Mutual Balanced/Front Load ED VA  
 NML VA Acct B: Russell Inv Fd Balanced Strategy/Back Load VA  
 NML VA Acct B: Russell Inv Fd Moderate Strategy/Back Load VA  
 Prudential Var Apprec Acct: Pru Srs Fd Conservative Balanced; CI I/VAL VL  
 Union Central Carillon Acct: MFS Var Ins Tr Total Return; Init CI//VA CI 1

**Lipper Variable Annuity Multi-Cap Core Funds Index**

Ameritas Lf Ins Corp Sep Acct LLVA: Wells Fargo Advantage VT Opportunity/No-Load VA  
 College Retirement Equities Fund: Equity Index Acct  
 Hartford Lf Ins Co Sep Acct VL I: Putnam VT Investors; CI IA/Stag VL Artisan  
 John Hancock VL Acct S: John Hancock Tr Total Stock Market Index; NAV/Majestic Var COLI VL  
 John Hancock VL Acct U: John Hancock Tr Optimized All Cap; NAV/VLI II  
 NML VA Acct B: Northwestern Mutual Large Cap Blend/Back Load VA  
 NML VL Acct: Russell Inv Fd Multi-Style Equity/Var CompLife VL  
 TIAA Sep Acct VA-1: Stock Index/Teachers Personal Annuity VA

**Lipper Variable Annuity Multi-Cap Growth Funds Index**

Am Natl VA Sep Acct: Alger LargeCap Growth; CI I-2/WithQuest III Grp Unallocated VA CI B  
 Am Natl VA Sep Acct: Federated Kaufmann II; Primary/WithQuest III Grp Unallocated VA CI B  
 Am Natl VA Sep Acct: VIP III Growth Opportunity; Svc CI 2/WithQuest III Grp Unallocated VA CI B  
 Ameritas Var Sep Acct VA-2: VIP Growth; Init CI/Ovrtr Ann II VA  
 IL Ann & Ins Co Sep Acct 1: Pioneer VC Tr Growth Opportunities; CI I/Visionary Choice VA  
 John Hancock VL Acct S: John Hancock Tr Mid Cap Stock; NAV/Majestic Var COLI VL

**Lipper Variable Annuity Multi-Cap Value Funds Index**

Am Natl VA Sep Acct: VIP Value; Svc CI 2/WithQuest III Grp Unallocated VA CI B  
 Ameritas Var Sep Acct VA-2: Amer Cent VP Income & Growth; CI I/Ovrtr Ann III PI VA  
 John Hancock VL Acct S: John Hancock Tr Optimized Value; NAV/Majestic Var COLI VL  
 NML VA Acct A: Northwestern Mutual Lrg Co Value/Indiv Flex Payment VA (Fee Based) CI C  
 NML VA Acct B: Northwestern Mutual Domestic Equity/Front Load ED VA  
 Pacific Select Exec Sep Acct: M Fund M Large Cap Value/Select Exec VUL  
 Pruco Lf Var Apprec Acct: Amer Cent VP Value; CI I/VUL

**Lipper Variable Annuity Small-Cap Core Funds Index**

Am Natl VA Sep Acct: Invesco VI Small Cap Equity; Srs I/WithQuest III Grp Unallocated VA CI B  
 Ameritas Var Sep Acct VA-2: Calvert VP Russell 2000 Small Cap Index; CI I/Ovrtr Medley! VA  
 John Hancock VL Acct S: John Hancock Tr Small Cap Index; NAV/Majestic Var COLI VL  
 John Hancock VL Acct S: John Hancock Tr Small Cap Value; NAV/Majestic Var Est Prot 98 VL  
 John Hancock VL Acct S: M Fund M Capital Appreciation/Majestic VUL 98  
 NML VA Acct A: Northwestern Mutual Index 600 Stock/Indiv Flex Payment VA (Fee Based) CI C  
 NML VL Acct: Northwestern Mutual Small Cap Value/Var CompLife VL  
 NML VL Acct: Russell Inv Fd Aggressive Equity/Var CompLife VL  
 Prudential Var Apprec Acct: Pru Srs Fd Small Capitalization Stock; CI I/Custm VAL 100 VL  
 Prudential Var Apprec Acct: Pru Srs Fd Small Capitalization Stock; CI I/Custom VAL VL

**Lipper Variable Annuity Small-Cap Growth Funds Index**

Ameritas Lf Ins Co Sep Acct LLVL: Vanguard VIF Small Company Growth; Inv Sh CI/Low-Load VUL  
 Ameritas Var Sep Acct VA-2: MFS Var Ins Tr New Discovery; Init CI/Ovrtr Medley! VA  
 IL Ann & Ins Co Sep Acct 1: Alger SmallCap Growth; CI I-2/Visionary Choice VA  
 John Hancock VL Acct U: John Hancock Tr Small Cap Growth; NAV/Medallion VL  
 NML VL Acct: Northwestern Mutual Small Cap Growth Stock/Var CompLife VL  
 Union Security Var Acct C: Hartford SmallCap Growth HLS; CI IA/Wall St VUL 220  
 Union Security Var Acct C: Hartford SmallCap Growth HLS; CI IA/Wall St VUL 500

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Variable Underlying Fund**

**General Underlying Fund**

**Lipper VUF Alternative Other Funds Index**

Advanced Series Trust: AST Academic Strategies Asset Allocation Portfolio  
Advanced Series Trust: AST Advanced Strategies Portfolio  
AIM Variable Insurance Funds (Invesco Variable Insurance Funds): Invesco VI Balanced-Risk All Fund; Series II  
Brighthouse Funds Trust I: Invesco Balanced-Risk Allocation Portfolio; Class B Shares  
Brighthouse Funds Trust I: PanAgora Global Diversified Risk Portfolio; Class B Shares  
EQ Advisors Trust: EQ/All Asset Growth Allocation Portfolio; Class IB Shares  
Ivy Variable Insurance Portfolios: Macquarie VIP Asset Strategy Series; Service Class Shares  
JNL Series Trust: JNL/JPMorgan Hedged Equity Fund; Class A Shares  
Pacific Select Fund: Hedged Equity Portfolio; Class I Shares  
PIMCO Variable Insurance Trust: PIMCO Global Managed Asset Allocation Portfolio; Advisor Class Shares

---

**Lipper VUF Balanced Funds Index**

Advanced Series Trust: AST Balanced Asset Allocation Portfolio	
Allianz Variable Insurance Products Fund of Funds Trust: AZL MVP Balanced Index Strategy Fund	
Brighthouse Funds Trust I: Brighthouse Balanced Plus Portfolio; Class B Shares	
Brighthouse Funds Trust I: MetLife Multi-Index Targeted Risk Portfolio; Class B Shares	
Brighthouse Funds Trust II: Brighthouse Asset Allocation 60 Portfolio; Class B Shares	
Brighthouse Funds Trust II: Brighthouse/Wellington Balanced Portfolio; Class A Shares	
EQ Advisors Trust: EQ/Balanced Strategy Portfolio; Class IB Shares	
Janus Aspen Series: Janus Henderson Balanced Portfolio; Service Shares	
JNL Series Trust: JNL/WMC Balanced Fund; Class A Shares	
John Hancock Variable Insurance Trust: Managed Volatility Balanced Portfolio; Series II Shares	JAJRX
John Hancock Variable Insurance Trust: Managed Volatility Moderate Portfolio; Series II Shares	JAIWX
Lincoln Variable Insurance Products Trust: LVIP American Global Balanced Allocation Managed Risk Fd; Service	
Lincoln Variable Insurance Products Trust: LVIP Global Moderate Allocation Managed Risk Fund; Service CI Shs	
MFS Variable Insurance Trust: MFS Total Return Series; Service Class Shares	
MML Series Investment Fund: MML Moderate Allocation Fund; Service Class Shares	
Nationwide Variable Insurance Trust: NVIT Blueprint Balanced Fund; Class II Shares	
Nationwide Variable Insurance Trust: NVIT Investor Destinations Balanced Fund; Class II Shares	
Nationwide Variable Insurance Trust: NVIT Investor Destinations Moderate Fund; Class II Shares	
New York Life Investments VP Funds Trust: NYLI VP Janus Henderson Balanced Portfolio; Service Class Shares	
Northwestern Mutual Series Fund, Inc: Balanced Portfolio	
Prudential Series Fund: PSF PGIM 50/50 Balanced Portfolio; Class I Shares	
SunAmerica Series Trust: SA PIMCO VCP Tactical Balanced Portfolio; Class 3 Shares	
Thrivent Series Fund, Inc: Thrivent Moderate Allocation Portfolio	
Transamerica Series Trust: Transamerica Goldman Sachs Managed Risk - Balanced ETF VP; Service Class Shares	
Transamerica Series Trust: Transamerica Janus Balanced VP; Service Class Shares	
Transamerica Series Trust: Transamerica JPMorgan Asset Allocation-Moderate VP; Service Class Shares	
Transamerica Series Trust: Transamerica Multi-Managed Balanced VP; Service Class Shares	
VALIC Company I: Moderate Growth Lifestyle Fund	VLSMX
Variable Insurance Products Fund III: Balanced Portfolio; Investor Class Shares	
Variable Insurance Products Fund V: Fundsmanager 50% Portfolio; Investor Class Shares	

---

**Lipper VUF Core Bond Funds Index**

American Funds Insurance Series: Bond Fund of America; Class 1 Shares	
Brighthouse Funds Trust I: JPMorgan Core Bond Portfolio; Class A Shares	
Brighthouse Funds Trust I: TCW Core Fixed Income Portfolio; Class A Shares	
Brighthouse Funds Trust II: BlackRock Bond Income Portfolio; Class A Shares	
Brighthouse Funds Trust II: MetLife Aggregate Bond Index Portfolio; Class A Shares	
Columbia Funds Variable Series Trust II: Columbia Variable Portfolio-Intermediate Bond Fund; Class 1 Shares	
Columbia Funds Variable Series Trust II: CTIVP - American Century Diversified Bond Fund; Class 1 Shares	
Columbia Funds Variable Series Trust II: Variable Portfolio - Partners Core Bond Fund; Class 1 Shares	
EQ Advisors Trust: EQ/Core Bond Index Portfolio; Class K Shares	
EQ Advisors Trust: EQ/Quality Bond PLUS Portfolio; Class IB Shares	
EQ Advisors Trust: Multimanager Core Bond Portfolio; Class K Shares	
Hartford Series Fund, Inc: Hartford Total Return Bond HLS Fund; Class IA Shares	HIABX
JNL Series Trust: JNL/DoubleLine Core Fixed Income Fund; Class A Shares	
JNL Series Trust: JNL/Mellon Bond Index Fund; Class A Shares	
John Hancock Variable Insurance Trust: Core Bond Trust; NAV Shares	JVCNX
John Hancock Variable Insurance Trust: Select Bond Trust; Series NAV Shares	JAGBX
Lincoln Variable Insurance Products Trust: LVIP JPMorgan Core Bond Fund; Standard Class Shares	
Lord Abbett Series Fund, Inc: Total Return Portfolio; Variable Contract Class Shares	
MFS Variable Insurance Trust: MFS Total Return Bond Series; Service Class Shares	
Nationwide Variable Insurance Trust: NVIT American Funds Bond Fund; Class II Shares	
Nationwide Variable Insurance Trust: NVIT Core Bond Fund; Class Y Shares	
Northwestern Mutual Series Fund, Inc: Select Bond Portfolio	
Pacific Select Fund: Managed Bond Portfolio; Class P Shares	
SunAmerica Series Trust: SA JPMorgan MFS Core Bond Portfolio; Class 1 Shares	
VALIC Company I: Core Bond Fund	VCBDX
Vanguard Variable Insurance Fund: Total Bond Market Index Portfolio; Investor Share Class	
Variable Insurance Products Fund V: Investment Grade Bond II Portfolio; Investor Class Shares	
Variable Insurance Products Fund V: Investment Grade Bond Portfolio; Service Class 2 Shares	
Voya Intermediate Bond Portfolio; Class S Shares	IPISX
Voya Variable Portfolios, Inc: Voya US Bond Index Portfolio; Class I Shares	ILBAX

**Lipper VUF Core Plus Bond Funds Index**

Advanced Series Trust: AST Core Fixed Income Portfolio  
 Brighthouse Funds Trust I: PIMCO Total Return Portfolio; Class B Shares  
 Columbia Funds Variable Series Trust II: CTIVP - TCW Core Plus Bond Fund; Class 1 Share  
 EQ Advisors Trust: EQ/Intermediate Corporate Bond Portfolio; Class K Shares  
 Lincoln Variable Insurance Products Trust: LVIP Macquarie Diversified Income Fund; Service Class Shares  
 Pacific Select Fund: Diversified Bond Portfolio; Class P Shares  
 PIMCO Variable Insurance Trust: PIMCO Total Return Portfolio; Administrative Class  
 Principal Variable Contracts Funds, Inc: Bond Market Index Account; Class 1 Shares  
 Prudential Series Fund: PSF PGIM Total Return Bond Portfolio; Class I Shares  
 Transamerica Series Trust: Transamerica Aegon Bond VP; Initial Class Shares

**Lipper VUF Corporate Debt BBB-Rated Funds Index**

Advanced Series Trust: AST Investment Grade Bond Portfolio  
 AuguStar Variable Insurance Products Fund Inc: AVIP Bond Portfolio  
 Columbia Funds Variable Insurance Trust: Columbia Variable Portfolio-Long Govt/Credit Bond Fd; Class 1 Shares  
 Ivy Variable Insurance Portfolios: Macquarie VIP Corporate Bond Series  
 Lincoln Variable Insurance Products Trust: LVIP Macquarie Bond Fund; Service Class Shares  
 Lincoln Variable Insurance Products Trust: LVIP SSgA Bond Index Fund; Standard Class Shares  
 Nationwide Variable Insurance Trust: NVIT Bond Index Fund; Class Y Shares  
 Penn Series Funds, Inc: Quality Bond Fund  
 SunAmerica Series Trust: SA Federated Hermes Corporate Bond Portfolio; Class 3 Shares  
 Thrivent Series Fund, Inc: Thrivent Income Portfolio

**Lipper VUF Dedicated Short Bias Funds Index**

ProFunds: ProFund VP Bear  
 ProFunds: ProFund VP Falling US Dollar  
 ProFunds: ProFund VP Rising Rates Opportunity  
 ProFunds: ProFund VP Short NASDAQ-100  
 ProFunds: ProFund VP Short Small-Cap  
 ProFunds: ProFund VP UltraShort NASDAQ-100  
 Rydex Variable Trust: Inverse Dow 2x Strategy Fund  
 Rydex Variable Trust: Inverse NASDAQ-100 Strategy Fund  
 Rydex Variable Trust: Inverse S&P 500 Strategy Fund  
 Transamerica Series Trust: Transamerica ProFund UltraBear VP; Service Class Shares

---

**Lipper VUF Emerging Markets Funds Index**

Advanced Series Trust: AST Emerging Markets Equity Portfolio	
American Funds Insurance Series: New World Fund; Class 1 Shares	
Brighthouse Funds Trust I: SSGA Emerging Markets Enhanced Index Portfolio II; Class A Shares	
Brighthouse Funds Trust I: SSGA Emerging Markets Enhanced Index Portfolio; Class A Shares	
Columbia Funds Variable Series Trust II: Columbia Variable Portfolio-Emerging Markets Fund; Class 3 Shares	
Delaware VIP Trust: Macquarie VIP Emerging Markets Series; Service Class Shares	
EQ Advisors Trust: EQ/Lazard Emerging Markets Equity Portfolio; Class IB Shares	
Franklin Templeton Variable Insurance Products Trust: Templeton Developing Markets VIP Fund; Class 2 Shares	
JNL Series Trust: JNL Emerging Markets Index Fund; Class I Shares	
JNL Series Trust: JNL Multi-Manager Emerging Markets Equity Fund; Class A Shares	
JNL Series Trust: JNL/American Funds New World Fund; Class A Shares	
JNL Series Trust: JNL/GQG Emerging Markets Equity Fund; Class I Shares	
JNL Series Trust: JNL/Mellon Emerging Markets Index Fund; Class A Shares	
John Hancock Variable Insurance Trust: Disciplined Value Emerging Markets Equity Trust; NAV Shares	JHVTX
Lazard Retirement Series, Inc: Lazard Retirement Emerging Markets Equity Portfolio; Service Class Shares	
Lincoln Variable Insurance Products Trust: Franklin Templeton Multi-Factor Emerging Markets Equity; Standard CI	
Lincoln Variable Insurance Products Trust: LVIP SSgA Emerging Markets Equity Index Fund; Standard Class Shares	
Morgan Stanley Variable Insurance Fund Inc: Emerging Markets Equity Portfolio; Class I Shares	MEMEX
Nationwide Variable Insurance Trust: NVIT GS Emerging Markets Equity Insights Fund; Class Y Shares	
New York Life Investments VP Funds Trust: NYLI VP Candriam Emerging Markets Equity Portfolio; Init CI Shs	
Northwestern Mutual Series Fund, Inc: Emerging Markets Equity Portfolio	
Pacific Select Fund: Emerging Markets Portfolio; Class P Shares	
Penn Series Funds, Inc: Emerging Markets Equity Fund	
SunAmerica Series Trust: SA JPMorgan Emerging Markets Portfolio; Class 3 Shares	
VALIC Company I: Emerging Economies Fund	VCGEX
VanEck VIP Trust: Emerging Markets Fund; Initial Class Shares	
Variable Insurance Products Fund II: Emerging Markets Portfolio; Initial Class Shares	
Voya Investors Trust: VY JPMorgan Emerging Markets Equity Portfolio; Service Class Shares	IJPIX
Voya Variable Portfolios, Inc: Voya Emerging Markets Index Portfolio; Class I Shares	IEPIX
Voya Variable Portfolios, Inc: Voya VACS Index Series EM Portfolio	VVIEX

---

**Lipper VUF Equity Income Funds Index**

Advanced Series Trust: AST Clearbridge Dividend Growth Portfolio	
AIM Variable Insurance Funds (Invesco Variable Insurance Funds): Invesco VI Diversified Dividend Fund; I	
American Funds Insurance Series: American Funds Growth and Income Portfolio; Class 4 Shares	
American Funds Insurance Series: Capital Income Builder; Class 4 Shares	
BlackRock Variable Series Funds, Inc: BlackRock Equity Dividend V.I. Fund; Class III Shares	
Columbia Funds Variable Series Trust II: Columbia Variable Portfolio-Dividend Opportunity Fund; Class 3 Shares	
Delaware VIP Trust: Macquarie VIP Growth and Income Series; Standard Class Shares	
EQ Advisors Trust: 1290 VT Equity Income Portfolio; Class K Shares	
EQ Advisors Trust: EQ/Franklin Rising Dividends Portfolio; Class IB Shares	
Guardian Variable Products Trust: Guardian Equity Income VIP Fund	
Hartford Series Fund, Inc: Hartford Dividend & Growth HLS Fund; Class IA Shares	HIADX
JNL Series Trust: JNL/American Funds Capital Income Builder Fund; Class A Shares	
JNL Series Trust: JNL/Invesco Diversified Dividend Fund; Class I Shares	
JNL Series Trust: JNL/Newton Equity Income Fund; Class A Shares	
JNL Series Trust: JNL/WMC Equity Income Fund; Class A Shares	
John Hancock Variable Insurance Trust: Equity Income Trust; NAV Shares	JAEEX
Legg Mason Partners Variable Equity Trust: ClearBridge Variable Dividend Strategy Portfolio; Class II Shares	
Lincoln Variable Insurance Products Trust: LVIP BlackRock Dividend Value Managed Volatility Fund; Svc Cl Shs	
Lord Abbett Series Fund, Inc: Dividend Growth Portfolio; Variable Contract Class Shares	
MML Series Investment Fund: MML Equity Income Fund; Initial Class Shares	
Nationwide Variable Insurance Trust: NVIT BlackRock Equity Dividend Fund; Class II Shares	
New York Life Investments VP Funds Trust: NYLI VP American Century Sustainable Equity Portfolio; Init Cl Shs	
Northwestern Mutual Series Fund, Inc: Equity Income Portfolio	
Principal Variable Contracts Funds, Inc: Equity Income Account; Class 1 Shares	
SunAmerica Series Trust: SA JPMorgan Equity-Income Portfolio; Class 1 Shares	
T Rowe Price Equity Series, Inc: T Rowe Price Equity Income Portfolio; Portfolio Class	
Transamerica Series Trust: Transamerica Aegon Sustainable Equity Income VP; Initial Class Shares	
Vanguard Variable Insurance Fund: Equity Income Portfolio; Investor Share Class	
Variable Insurance Products Fund: Equity-Income Portfolio; Initial Class Shares	
Voya Investors Trust: Voya Large Cap Value Portfolio; Institutional Class Shares	IPEIX



**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper VUF Equity Leverage Funds Index**

ProFunds: ProFund VP UltraBull  
ProFunds: ProFund VP UltraMid-Cap  
ProFunds: ProFund VP UltraNASDAQ-100  
ProFunds: ProFund VP UltraSmall-Cap  
Rydex Variable Trust: Dow 2x Strategy Fund  
Rydex Variable Trust: Mid-Cap 1.5x Strategy Fund  
Rydex Variable Trust: NASDAQ-100 2x Strategy Fund  
Rydex Variable Trust: Russell 2000 1.5x Strategy Fund  
Rydex Variable Trust: Russell 2000 2x Strategy Fund  
Rydex Variable Trust: S&P 500 2x Strategy Fund

**Lipper VUF Flexible Portfolio Funds Index**

AB Variable Products Series Fund, Inc: AB VPS Dynamic Asset Allocation Portfolio; Class B Shares  
 AB Variable Products Series Fund, Inc: AB VPS Global Risk Allocation-Moderate Portfolio; Class B Shares  
 Advanced Series Trust: AST Quantitative Modeling Portfolio  
 Allianz Variable Insurance Products Fund of Funds Trust: AZL MVP Global Balanced Index Strategy Fund  
 Allianz Variable Insurance Products Fund of Funds Trust: AZL MVP T Rowe Price Capital Appreciation Plus Fund  
 Allianz Variable Insurance Products Trust: AZL T Rowe Price Capital Appreciation Fund; Class 2 Shares  
 American Funds Insurance Series: American Funds Managed Risk Growth Portfolio; Class P2 Shares  
 American Funds Insurance Series: Managed Risk Asset Allocation Fund; Class P2 Shares  
 AuguStar Variable Insurance Products Fund Inc: AVIP BlackRock Balanced Allocation Portfolio  
 BlackRock Variable Series Funds, Inc: BlackRock Global Allocation V.I. Fund; Class III Shares  
 Franklin Templeton Variable Insurance Products Trust: Franklin Income VIP Fund; Class 2 Shares  
 Goldman Sachs Variable Insurance Trust: Goldman Sachs Trend Driven Fund; Service Class Shs  
 JNL Series Trust: JNL/BlackRock Global Allocation Fund; Class A Shares  
 JNL Series Trust: JNL/JPMorgan Global Allocation Fund; Class A Shares  
 JNL Series Trust: JNL/T Rowe Price Capital Appreciation Fund; Class A Shares  
 Lazard Retirement Series, Inc: Lazard Retirement Global Dynamic Multi-Asset Portfolio; Service Class  
 Lincoln Variable Insurance Products Trust: LVIP BlackRock Global Allocation Fund; Standard Class Shares  
 Lincoln Variable Insurance Products Trust: LVIP BlackRock Global Allocation Managed Risk Fund; Svc Cl Shs  
 Nationwide Variable Insurance Trust: NVIT BlackRock Managed Global Allocation Fund; Class II Shares  
 Nationwide Variable Insurance Trust: NVIT Managed American Funds Asset Allocation Fund; Class II Shares  
 New York Life Investments VP Funds Trust: NYLI VP Income Builder Portfolio; Service Class Shares  
 Penn Series Funds, Inc: Flexibly Managed Fund  
 State Street Variable Insurance Series Funds, Inc: State Street Total Return VIS Fund; Class 3 Shares    SSTTX  
 SunAmerica Series Trust: SA American Funds VCP Managed Allocation Portfolio; Class 3 Shares  
 SunAmerica Series Trust: SA VCP Dynamic Allocation Portfolio; Class 3 Shares  
 SunAmerica Series Trust: SA VCP Dynamic Strategy Portfolio; Class 3 Shares  
 Transamerica Series Trust: Transamerica BlackRock Tactical Allocation VP; Service Class Shares  
 Transamerica Series Trust: Transamerica Market Participation Strategy VP; Service Class Shares  
 Transamerica Series Trust: Transamerica Morgan Stanley Global Allocation VP; Service Class Shares  
 Wilshire Variable Insurance Trust: Wilshire Global Allocation Fund

**Lipper VUF General Bond Funds Index**

Allianz Variable Insurance Products Trust: AZL Enhanced Bond Index Fund	
Brighthouse Funds Trust II: Western Asset Management Strategic Bond Opportunities Portfolio; Class A Shares	
EQ Advisors Trust: EQ/Long-Term Bond Portfolio; Class K Shares	
JNL Series Trust: JNL Bond Index Fund; Class I Shares	
John Hancock Variable Insurance Trust: Active Bond Trust; NAV Shares	JAHDX
Lincoln Variable Insurance Products Trust: LVIP American Preservation Fund; Service Class Shares	
Nationwide Variable Insurance Trust: NVIT DoubleLine Total Return Tactical Fund; Class Y Shares	
PIMCO Variable Insurance Trust: PIMCO Income Portfolio; Advisor Class Shares	
Putnam Variable Trust: Putnam VT Diversified Income Fund; Class IB Shares	
Voya Variable Insurance Trust: VY BrandywineGLOBAL - Bond Portfolio	VGSBX

**Lipper VUF General US Government Funds Index**

Brighthouse Funds Trust I: Western Asset Management Government Income Portfolio; Class B Shares	
Guardian Variable Products Trust: Guardian US Government Securities VIP Fund	
JNL Series Trust: JNL/JPMorgan US Government & Quality Bond Fund; Class A Shares	
John Hancock Variable Insurance Trust: Short Term Government Income Trust; Series NAV Shares	JAFYX
Nationwide Variable Insurance Trust: NVIT Government Bond Fund; Class I Shares	
Northwestern Mutual Series Fund, Inc: Long-Term US Government Bond Portfolio	
Pacific Select Fund: Short Duration Bond Portfolio; Class I Shares	
PIMCO Variable Insurance Trust: PIMCO Long-Term US Government Portfolio; Administrative Class	
ProFunds: ProFund VP US Government Plus	
Prudential Series Fund: PSF PGIM Government Income Portfolio; Class I Shares	

---

**Lipper VUF Global Funds Index**

Advanced Series Trust: AST MFS Global Equity Portfolio	
AIM Variable Insurance Funds (Invesco Variable Insurance Funds): Invesco VI Global Fund; Series I	
Allianz Variable Insurance Products Trust: AZL MSCI Global Equity Index Fund; Class 2 Shares	
American Funds Insurance Series: American Funds Managed Risk Growth and Income Portfolio; Class P2 Shares	
American Funds Insurance Series: Capital World Growth & Income Fund; Class 2 Shares	
American Funds Insurance Series: Global Growth Fund; Class 2 Shares	
Brighthouse Funds Trust I: Invesco Global Equity Portfolio; Class A Shares	
EQ Advisors Trust: 1290 VT SmartBeta Equity ESG Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/Global Equity Managed Volatility Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/Invesco Global Portfolio; Class IB Shares	
Franklin Templeton Variable Insurance Products Trust: Franklin Mutual Global Discovery VIP Fund; Class 2 Shs	
Franklin Templeton Variable Insurance Products Trust: Templeton Growth VIP Fund; Class 2 Shares	
Janus Aspen Series: Janus Henderson Global Research Portfolio; Institutional Shares	JAWGX
JNL Series Trust: JNL/American Funds Global Growth Fund; Class A Shares	
JNL Series Trust: JNL/Harris Oakmark Global Equity Fund; Class I Shares	
JNL Series Trust: JNL/Invesco Global Growth Fund; Class A Shares	
JNL Series Trust: JNL/Loomis Sayles Global Growth Fund; Class I Shares	
JNL Series Trust: JNL/Mellon World Index Fund; Class A Shares	
John Hancock Variable Insurance Trust: Strategic Equity Allocation Trust; Series NAV Shares	JAFVX
Lincoln Variable Insurance Products Trust: LVIP American Global Growth Fund; Service Class II Shares	
Lincoln Variable Insurance Products Trust: LVIP Franklin Templeton Global Equity Managed Volatility Fund; Svc	
Lincoln Variable Insurance Products Trust: LVIP Loomis Sayles Global Growth Fund; Standard Class Shares	
Nationwide Variable Insurance Trust: NVIT American Funds Global Growth Fund; Class II Shares	
Prudential Series Fund: PSF Global Portfolio; Class I Shares	
Securian Funds Trust: SFT Equity Stabilization Fund	
SunAmerica Series Trust: SA American Funds Global Growth Portfolio; Class 3 Shares	
SunAmerica Series Trust: SA JPMorgan Global Equities Portfolio; Class 1 Shares	
Thrivent Series Fund, Inc: Thrivent Global Stock Portfolio	
Voya Partners, Inc: Voya Global Insights Portfolio; Initial Class Shares	IGMIX
Voya Variable Portfolios, Inc: Voya Global High Dividend Low Volatility Portfolio; Class S Shares	IGHSX

**Lipper VUF Global Income Funds Index**

Advanced Series Trust: AST Global Bond Portfolio  
AIM Variable Insurance Funds (Invesco Variable Insurance Funds): Invesco VI Global Stra Inc Fd;Srs II  
American Funds Insurance Series: Capital World Bond Fund; Class 2 Shares  
Brighthouse Funds Trust I: AB International Bond Portfolio; Class A Shares  
Brighthouse Funds Trust I: Brighthouse/Templeton International Bond Portfolio; Class A Shares  
Franklin Templeton Variable Insurance Products Trust: Templeton Global Bond VIP Fund; Class 2 Shares  
JNL Series Trust: JNL/PIMCO Income Fund; Class A Shares  
Lincoln Variable Insurance Products Trust: LVIP Vanguard Bond Allocation Fund; Service Class Shares  
New York Life Investments VP Funds Trust: NYLI VP MacKay Strategic Bond Portfolio; Service Class Shares  
Vanguard Variable Insurance Fund: Global Bond Index Portfolio; Investor Share Class

**Lipper VUF Global Real Estate Index**

Brighthouse Funds Trust I: CBRE Global Real Estate Portfolio; Class A Shares  
EQ Advisors Trust: EQ/Invesco Global Real Assets Portfolio; Class IB Shares  
Franklin Templeton Variable Insurance Products Trust: Franklin Global Real Estate VIP Fund; Class 2 Shares  
JNL Series Trust: JNL/WMC Global Real Estate Fund; Class A Shares  
Lincoln Variable Insurance Products Trust: LVIP BlackRock Real Estate Fund; Standard Class Shares  
MFS Variable Insurance Trust III: MFS Global Real Estate Portfolio; Initial Class Shares  
Russell Investment Funds: Global Real Estate Securities Fund RIFSX  
Transamerica Series Trust: Transamerica BlackRock Real Estate Securities VP; Initial Class Shares  
VALIC Company I: Global Real Estate Fund VGREX  
Voya Investors Trust: VY CBRE Global Real Estate Portfolio; Institutional Class Shares IRGIX

---

**Lipper VUF Growth & Income Funds Index**

American Funds Insurance Series: Asset Allocation Fund; Class 1 Shares	
American Funds Insurance Series: Growth-Income Fund; Class 1 Shares	
American Funds Insurance Series: Washington Mutual Investors Fund; Class 1 Shares	
Brighthouse Funds Trust I: American Funds Balanced Allocation Portfolio; Class C Shares	
Brighthouse Funds Trust II: Brighthouse Asset Allocation 80 Portfolio; Class B Shares	
Columbia Funds Variable Insurance Trust: Columbia Variable Portfolio-Managed Volatility Growth Fund; CI 2 Shs	
Columbia Funds Variable Series Trust II: Columbia Variable Portfolio-Select Large Cap Eq Fd; Class 1 Share	
EQ Advisors Trust: EQ/500 Managed Volatility Portfolio; Class K Shares	
EQ Advisors Trust: EQ/Common Stock Index Portfolio; Class IA Shares	
EQ Advisors Trust: EQ/Growth Strategy Portfolio; Class IB Shares	
Hartford Series Fund, Inc: Hartford Capital Appreciation HLS Fund; Class IA Shares	HIACX
JNL Series Trust: JNL/American Funds Growth Allocation Fund; Class A Shares	
JNL Series Trust: JNL/American Funds Growth-Income Fund; Class A Shares	
JNL Series Trust: JNL/American Funds Washington Mutual Investors Fund; Class A Shares	
JNL Series Trust: JNL/Goldman Sachs 4 Fund; Class A Shares	
JNL Series Trust: JNL/JPMorgan Managed Growth Fund; Class A Shares	
JNL Series Trust: JNL/Mellon US Stock Market Index Fund; Class A Shares	
John Hancock Variable Insurance Trust: Lifestyle Growth Portfolio; Series II Shares	JAIX
Lincoln Variable Insurance Products Trust: LVIP Global Growth Allocation Managed Risk Fund; Service CI Shs	
Nationwide Variable Insurance Trust: NVIT American Funds Asset Allocation Fund; Class II Shares	
Nationwide Variable Insurance Trust: NVIT American Funds Growth-Income Fund; Class II Shares	
Principal Variable Contracts Funds, Inc: Diversified Growth Account; Class 2 Shares	
Prudential Series Fund: PSF PGIM Flexible Managed Portfolio; Class I Shares	
Prudential Series Fund: PSF PGIM Jennison Blend Portfolio; Class I Shares	
Thrivent Series Fund, Inc: Thrivent Moderately Aggressive Allocation Portfolio	
Vanguard Variable Insurance Fund: Balanced Portfolio; Investor Share Class	
Vanguard Variable Insurance Fund: Total Stock Market Index Portfolio; Investor Share Class	
Variable Insurance Products Fund V: Fundsmanager 60% Portfolio; Investor Class Shares	
Voya Investors Trust: Voya VACS Index Series S Portfolio	VVIPX
Voya Investors Trust: VY T Rowe Price Capital Appreciation Portfolio; Service Class Shares	ITCSX

---

**Lipper VUF Growth Funds Index**

Advanced Series Trust: AST Capital Growth Asset Allocation Portfolio	
Advanced Series Trust: AST Large-Cap Growth Portfolio	
Advanced Series Trust: AST Prudential Growth Allocation Portfolio	
American Funds Insurance Series: Growth Fund; Class 2 Shares	
Brighthouse Funds Trust I: AB Global Dynamic Allocation Portfolio; Class B Shares	
Brighthouse Funds Trust I: American Funds Growth Allocation Portfolio; Class C Shares	
Brighthouse Funds Trust I: BlackRock Global Tactical Strategies Portfolio; Class B Shares	
Columbia Funds Variable Insurance Trust: Columbia Variable Portfolio-US Flexible Growth Fund; Class 2 Shares	
Columbia Funds Variable Series Trust II: Variable Portfolio - Moderate Portfolio; Class 2 Shares	
Columbia Funds Variable Series Trust II: Variable Portfolio-Managed Volatility Modt Gro Fd; Cl 2 Shs	
EQ Advisors Trust: EQ/Aggressive Allocation Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/Aggressive Growth Strategy Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/Large Cap Growth Managed Volatility Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/Moderate Allocation Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/Moderate Growth Strategy Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/Moderate-Plus Allocation Portfolio; Class IB Shares	
JNL Series Trust: JNL Moderate Growth Allocation Fund; Class A Shares	
JNL Series Trust: JNL/American Funds Growth Fund; Class A Shares	
JNL Series Trust: JNL/BlackRock Large Cap Select Growth Fund; Class A Shares	
JNL Series Trust: JNL/JPMorgan Managed Moderate Growth Fund; Class A Shares	
JNL Series Trust: JNL/Mellon Nasdaq 100 Index Fund; Class A Shares	
JNL Series Trust: JNL/T. Rowe Price Growth Stock Fund; Class A Shares	
John Hancock Variable Insurance Trust: Managed Volatility Growth Portfolio; Series II Shares	JAJAX
Pacific Select Fund: Portfolio Optimization Growth Portfolio; Class I Shares	
Pacific Select Fund: Portfolio Optimization Moderate Portfolio; Class I Shares	
Prudential Series Fund: PSF PGIM Jennison Growth Portfolio; Class I Shares	
Transamerica Series Trust: Transamerica WMC US Growth VP; Initial Class Shares	
Variable Insurance Products Fund II: Contrafund Portfolio; Service Class 2 Shares	
Variable Insurance Products Fund: Growth Portfolio; Initial Class Shares	
Variable Insurance Products Fund: Stock Selector Portfolio; Investor Class Shares	

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper VUF Health Biotech Funds Index**

AIM Variable Insurance Funds (Invesco Variable Insurance Funds): Invesco VI Health Care Fund; Series I Shares	
EQ Advisors Trust: EQ/T Rowe Price Health Sciences Portfolio; Class IB Shares	
Hartford Series Fund, Inc: Hartford Healthcare HLS Fund; Class IA Shares	HIAHX
JNL Series Trust: JNL/Mellon Healthcare Sector Fund; Class A Shares	
John Hancock Variable Insurance Trust: Health Sciences Trust; NAV Shares	JAFMX
Pacific Select Fund: Health Sciences Portfolio; Class I Shares	
Putnam Variable Trust: Putnam VT Global Health Care Fund; Class IB Shares	
T Rowe Price Equity Series, Inc: T Rowe Price Health Sciences Portfolio; Portfolio-II Class	
Thrivent Series Fund, Inc: Thrivent Healthcare Portfolio	
Variable Insurance Products Fund IV: Health Care Portfolio; Initial Class Shares	



**Lipper VUF High Yield Funds Index**

Advanced Series Trust: AST High Yield Portfolio	
American Funds Insurance Series: High-Income Trust; Class 2 Shares	
BlackRock Variable Series Funds II, Inc: BlackRock High Yield VI Fund; Class III Common Stock Shares	
Brighthouse Funds Trust I: BlackRock High Yield Portfolio; Class B Shares	
Brighthouse Funds Trust I: Brighthouse/Eaton Vance Floating Rate Portfolio; Class A Shares	
Columbia Funds Variable Series Trust II: Columbia Variable Portfolio-High Yield Bond Fund; Class 3 Shares	
Eaton Vance Variable Trust: Eaton Vance VT Floating-Rate Income Fund; Initial Class Shares	
EQ Advisors Trust: 1290 VT High Yield Bond Portfolio; Class K Shares	
Ivy Variable Insurance Portfolios: Macquarie VIP High Income Series; Service Class Shares	
JNL Series Trust: JNL Multi-Manager Floating Rate Income Fund; Class A Shares	
JNL Series Trust: JNL/PPM America High Yield Bond Fund; Class A Shares	
JNL Series Trust: JNL/T Rowe Price US High Yield Fund; Class I Shares	
Lincoln Variable Insurance Products Trust: LVIP JPMorgan High Yield Fund; Standard Class Shares	
Lincoln Variable Insurance Products Trust: LVIP Macquarie Diversified Floating Rate Fund; Service Class Shs	
Lord Abbett Series Fund, Inc: Bond Debenture Portfolio; Variable Contract Class Shares	
MFS Variable Insurance Trust II: MFS High Yield Portfolio; Initial Class Shares	
New York Life Investments VP Funds Trust: NYLI VP Floating Rate Portfolio; Service Class Shares	
New York Life Investments VP Funds Trust: NYLI VP MacKay High Yield Corporate Bond Portfolio; Svc Cl Shs	
Northwestern Mutual Series Fund, Inc: High Yield Bond Portfolio	
Pacific Select Fund: Floating Rate Income Portfolio; Class I Shares	
Pacific Select Fund: High Yield Bond Portfolio; Class P Shares	
PIMCO Variable Insurance Trust: PIMCO High Yield Portfolio; Administrative Class	
Prudential Series Fund: PSF PGIM High Yield Bond Portfolio; Class I Shares	
Thrivent Series Fund, Inc: Thrivent High Yield Portfolio	
Transamerica Series Trust: Transamerica Aegon High Yield Bond VP; Initial Class Shares	
VALIC Company I: High Yield Bond Fund	VHYLX
Vanguard Variable Insurance Fund: High Yield Bond Portfolio; Investor Share Class	
Variable Insurance Products Fund: Floating Rate High Income Portfolio; Investor Class Shares	
Variable Insurance Products Fund: High Income Portfolio; Investor Class Shares	
Voya Investors Trust: Voya High Yield Portfolio; Service Class Shares	IPHYX

---

**Lipper VUF Income Funds Index**

Advanced Series Trust: AST JPMorgan Conservative Multi-Asset Portfolio  
Advanced Series Trust: AST Preservation Asset Allocation Portfolio  
American Funds Insurance Series: American Funds IS 2010 Target Date Fund; Class 4 Shares  
AuguStar Variable Insurance Products Fund Inc: AVIP Constellation Managed Risk Balanced Portfolio  
Brighthouse Funds Trust II: Brighthouse Asset Allocation 40 Portfolio; Class B Shares  
Columbia Funds Variable Insurance Trust: Columbia Variable Portfolio-Managed Volatility Consv Fd; Cl 2 Shs  
Columbia Funds Variable Series Trust II: Variable Portfolio - Moderately Consv Portfolio; Class 2 Shares  
Columbia Funds Variable Series Trust II: Variable Portfolio-Conservative Portfolio; Class 2 Shares  
EQ Advisors Trust: EQ/Conservative Allocation Portfolio; Class IB Shares  
EQ Advisors Trust: EQ/Conservative Growth Strategy Portfolio; Class IB Shares  
EQ Advisors Trust: EQ/Conservative Strategy Portfolio; Class IB Shares  
EQ Advisors Trust: EQ/Conservative-Plus Allocation Portfolio; Class IB Shares  
EQ Advisors Trust: EQ/Ultra Conservative Strategy Portfolio; Class IB Shares  
JNL Series Trust: JNL Conservative Allocation Fund; Class A Shares  
JNL Series Trust: JNL/Franklin Templeton Income Fund; Class A Shares  
JNL Series Trust: JNL/JPMorgan Managed Conservative Fund; Class A Shares  
JNL Series Trust: JNL/JPMorgan Managed Moderate Fund; Class A Shares  
Lincoln Variable Insurance Products Trust: LVIP Global Conservative Allocation Managed Risk Fund; Service  
Nationwide Variable Insurance Trust: NVIT Blueprint Conservative Fund; Class II Shares  
Nationwide Variable Insurance Trust: NVIT Blueprint Moderately Conservative Fund; Class II Shares  
Nationwide Variable Insurance Trust: NVIT Investor Destinations Conservative Fund; Class II Shares  
Pacific Select Fund: Pacific Dynamix - Conservative Growth Portfolio; Class I Shares  
Pacific Select Fund: Portfolio Optimization Conservative Portfolio; Class I Shares  
Pacific Select Fund: Portfolio Optimization Moderate-Conservative Portfolio; Class I Shares  
Thrivent Series Fund, Inc: Thrivent Diversified Income Plus Portfolio  
Thrivent Series Fund, Inc: Thrivent Moderately Conservative Allocation Portfolio  
Transamerica Series Trust: Transamerica JPMorgan Asset Allocation-Conservative VP; Service Class Shares  
Transamerica Series Trust: Transamerica JPMorgan Tactical Allocation VP; Service Class Shares  
Variable Insurance Products Fund V: Fundsmanager 20% Portfolio; Investor Class Shares  
Voya Partners, Inc: Voya Index Solution Income Portfolio; Class Z Shares

VSZJX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper VUF Inflation Protected Bond Funds Index**

Brighthouse Funds Trust I: PIMCO Inflation Protected Bond Portfolio; Class A Shares

JNL Series Trust: JNL/PIMCO Real Return Fund; Class A Shares

Lincoln Variable Insurance Products Trust: LVIP American Century Inflation Protection Fund; Service Class Sh

Lincoln Variable Insurance Products Trust: LVIP BlackRock Inflation Protected Bond Fund; Service Class Shs

New York Life Investments VP Funds Trust: NYLI VP PIMCO Real Return Portfolio; Service Class Shares

Northwestern Mutual Series Fund, Inc: Inflation Protection Portfolio

Pacific Select Fund: Inflation Managed Portfolio; Class I Shares

PIMCO Variable Insurance Trust: PIMCO Real Return Portfolio; Administrative Class

Seasons Series Trust: SA American Century Inflation Protection Portfolio; Class 3 Shares

VALIC Company I: Inflation Protected Fund

VCTPX

---

**Lipper VUF International Funds Index**

Advanced Series Trust: AST International Equity Portfolio	
Allianz Variable Insurance Products Trust: AZL International Index Fund; Class 2 Shares	
American Funds Insurance Series: International Fund; Class 2 Shares	
Brighthouse Funds Trust I: Brighthouse/Artisan International Portfolio; Class A Shares	
Brighthouse Funds Trust I: Harris Oakmark International Portfolio; Class A Shares	
Brighthouse Funds Trust I: MFS Research International Portfolio; Class A Shares	
Brighthouse Funds Trust II: Baillie Gifford International Stock Portfolio; Class A Shares	
Columbia Funds Variable Series Trust II: Columbia Variable Portfolio-Overseas Core Fund; Class 1 Shares	
Columbia Funds Variable Series Trust II: Variable Portfolio - Partners International Core Eqty Fd; Class 1 Shs	
Columbia Funds Variable Series Trust II: Variable Portfolio - Partners International Growth Fund; Class 1 Shs	
Columbia Funds Variable Series Trust II: Variable Portfolio - Partners International Value Fund; Class 1 Shs	
EQ Advisors Trust: ATM International Managed Volatility Portfolio; Class K Shares	
EQ Advisors Trust: EQ/International Managed Volatility Portfolio; Class K Shares	
EQ Advisors Trust: EQ/MFS International Intrinsic Value Portfolio; Class IB Shares	
JNL Series Trust: JNL International Index Fund; Class I Shares	
JNL Series Trust: JNL/American Funds International Fund; Class A Shares	
JNL Series Trust: JNL/Causeway International Value Select Fund; Class I Shares	
JNL Series Trust: JNL/Mellon International Index Fund; Class A Shares	
Lincoln Variable Insurance Products Trust: LVIP MFS International Growth Fund; Standard Class Shares	
Lincoln Variable Insurance Products Trust: LVIP SSgA International Index Fund; Standard Class Shares	
MFS Variable Insurance Trust II: MFS International Intrinsic Value Portfolio; Service Class Shares	
Nationwide Variable Insurance Trust: NVIT International Index Fund; Class Y Shares	
Northwestern Mutual Series Fund, Inc: International Equity Portfolio	
Northwestern Mutual Series Fund, Inc: International Growth Portfolio	
Thrivent Series Fund, Inc: Thrivent International Allocation Portfolio	
VALIC Company I: International Equities Index Fund	VCIEIX
Vanguard Variable Insurance Fund: International Portfolio; Investor Share Class	
Vanguard Variable Insurance Fund: Total International Stock Market Index Portfolio; Investor Share Class	
Variable Insurance Products Fund: Overseas Portfolio; Initial Class Shares	
Voya Variable Portfolios, Inc: Voya VACS Index Series I Portfolio	VVIIX

**Lipper VUF Multi-Sector Income Funds Index**

Advanced Series Trust: AST Multi-Sector Fixed Income Portfolio	
Franklin Templeton Variable Insurance Products Trust: Franklin Strategic Income VIP Fund; Class 1 Shares	
Guardian Variable Products Trust: Guardian Multi-Sector Bond VIP Fund	
JNL Series Trust: JNL/Neuberger Berman Strategic Income Fund; Class A Shares	
JNL Series Trust: JNL/Western Asset Global Multi-Sector Bond Fund; Class A Shares	
John Hancock Variable Insurance Trust: Strategic Income Opportunities Trust; Series I Shares	JESNX
Nationwide Variable Insurance Trust: NVIT Amundi Multi Sector Bond Fund; Class I Shares	
Northwestern Mutual Series Fund, Inc: Multi-Sector Bond Portfolio	
Russell Investment Funds: Strategic Bond Fund	RIFDX
Variable Insurance Products Fund V: Strategic Income Portfolio; Investor Class Shares	

**Lipper VUF Natural Resources Funds Index**

Advanced Series Trust: AST T Rowe Price Natural Resources Portfolio	
ALPS Variable Investment Trust: ALPS/Alerian Energy Infrastructure Portfolio; Class III Shares	ALEFX
Brighthouse Funds Trust II: VanEck Global Natural Resources Portfolio; Class A Shares	
EQ Advisors Trust: EQ/Wellington Energy Portfolio; Class IB Shares	
JNL Series Trust: JNL/BlackRock Global Natural Resources Fund; Class A Shares	
JNL Series Trust: JNL/Mellon Energy Sector Fund; Class A Shares	
New York Life Investments VP Funds Trust: NYLI VP Natural Resources Portfolio; Initial Class Shares	
Prudential Series Fund: PSF Natural Resources Portfolio; Class I Shares	
VanEck VIP Trust: VanEck VIP Global Resources Fund; Initial Class Shares	
Variable Insurance Products Fund IV: Energy Portfolio; Investor Class Shares	

**Lipper VUF Real Estate Funds Index**

Advanced Series Trust: AST Cohen & Steers Realty Portfolio	
Columbia Funds Variable Series Trust II: CTIVP - CenterSquare Real Estate Fund; Class 1 Shares	
JNL Series Trust: JNL/Mellon Real Estate Sector Fund; Class A Shares	
John Hancock Variable Insurance Trust: Real Estate Securities Trust; Series NAV Shares	JAJMX
Lincoln Variable Insurance Products Trust: LVIP Macquarie US REIT Fund; Standard Class Shares	
Pacific Select Fund: Real Estate Portfolio; Class I Shares	
SunAmerica Series Trust: SA Fidelity Institutional AM Real Estate Portfolio; Class 3 Shares	
Thrivent Series Fund, Inc: Thrivent Real Estate Securities Portfolio	
Vanguard Variable Insurance Fund: Real Estate Index Portfolio; Investor Share Class	
Variable Insurance Products Fund IV: Real Estate Portfolio; Investor Class Shares	

---

**Lipper VUF S&P 500 Funds Index**

Allianz Variable Insurance Products Trust: AZL S&P 500 Index Fund; Class 2 Shares	
AuguStar Variable Insurance Products Fund Inc: AVIP S&P 500 Index Portfolio	
BlackRock Variable Series Funds, Inc: BlackRock S&P 500 Index V.I. Fund; Class I Shares	
BNY Mellon Stock Index Fund, Inc; Initial Shares	
Brighthouse Funds Trust II: MetLife Stock Index Portfolio; Class A Shares	
Calvert Variable Trust, Inc: CVT S&P 500 Index Portfolio	
Columbia Funds Variable Series Trust II: Columbia Variable Portfolio-Large Cap Index Fund; Class 3 Shares	
Deutsche DWS Investments VIT Funds: DWS Equity 500 Index VIP; Class A Shares	
EQ Advisors Trust: EQ/Equity 500 Index Portfolio; Class IA Shares	
JNL Series Trust: JNL S&P 500 Index Fund; Class I Shares	
JNL Series Trust: JNL/Mellon S&P 500 Index Fund; Class A Shares	
John Hancock Variable Insurance Trust: 500 Index Trust; NAV Shares	JAGMX
Lincoln Variable Insurance Products Trust: LVIP SSgA S&P 500 Index Fund; Standard Class Shares	
Nationwide Variable Insurance Trust: NVIT S&P 500 Index Fund; Class II Shares	
New York Life Investments VP Funds Trust: NYLI VP S&P 500 Index Portfolio; Initial Class Shares	
Northwestern Mutual Series Fund, Inc: Index 500 Stock Portfolio	
Pacific Select Fund: Equity Index Portfolio; Class I Shares	
Penn Series Funds, Inc: Index 500 Fund	
Principal Variable Contracts Funds, Inc: LargeCap S&P 500 Index Account; Class 1 Shares	
Prudential Series Fund: PSF Stock Index Portfolio; Class I Shares	
Schwab Annuity Portfolios: Schwab S&P 500 Index Portfolio	
Securian Funds Trust: Index 500 Fund; Class 2 Shares	
State Street Variable Insurance Series Funds, Inc: State Street S&P 500 Index VIS Fund; Class 1 Shares	SSSPX
SunAmerica Series Trust: SA Large Cap Index Portfolio; Class 1 Shares	
Thrivent Series Fund, Inc: Thrivent Large Cap Index Portfolio	
Transamerica Series Trust: Transamerica S&P 500 Index VP; Service Class Shares	
VALIC Company I: Stock Index Fund	VSTIX
Vanguard Variable Insurance Fund: Equity Index Portfolio; Investor Share Class	
Variable Insurance Products Fund II: Index 500 Portfolio; Initial Class Shares	
Voya Investors Trust: Voya US Stock Index Portfolio; Institutional Class Shares	INGIX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

---

**Lipper VUF Science & Technology Funds Index**

BNY Mellon Investment Portfolios: Technology Growth Portfolio; Service Shares

EQ Advisors Trust: EQ/MFS Technology Portfolio; Class IB Shares

EQ Advisors Trust: Multimanager Technology Portfolio; Class IB Shares

Ivy Variable Insurance Portfolios: Macquarie VIP Science & Technology Series; Service Class Shares

Janus Aspen Series: Janus Henderson Global Technology and Innovation Portfolio; Service Shares

JNL Series Trust: JNL/Mellon Communication Services Sector Fund; Class A Shares

JNL Series Trust: JNL/Mellon Information Technology Sector Fund; Class A Shares

John Hancock Variable Insurance Trust: Science & Technology Trust; Series I Shares

JESTX

VALIC Company I: Science & Technology Fund

VCSTX

Variable Insurance Products Fund IV: Technology Portfolio; Investor Class Shares

---

**Lipper VUF US Government Money Market Funds Index**

Advanced Series Trust: AST Government Money Market Portfolio	
AIM Variable Insurance Funds (Invesco Variable Insurance Funds): Invesco VI Govt Money Mkt Fund; Series I Shs	
AIM Variable Insurance Funds (Invesco Variable Insurance Funds): Invesco VI US Government Money Ptf;Srs I	
Allianz Variable Insurance Products Trust: AZL Government Money Market Fund	
BlackRock Series Fund, Inc: BlackRock Government Money Market Portfolio	
BlackRock Variable Series Funds, Inc: BlackRock Government Money Market V.I. Fund; Class I Shares	
BNY Mellon Variable Investment Fund: Government Money Market Portfolio; Initial Shares	
Columbia Funds Variable Series Trust II: Columbia Variable Portfolio-Government Mny Mkt Fund; Class 3 Shares	
Deutsche DWS Variable Series II: DWS Government Money Market VIP; Class A Shares	
EQ Advisors Trust: EQ/Money Market Portfolio; Class IB Shares	
Federated Hermes Insurance Series: Federated Hermes Government Money Fund II; Service Shares	
Goldman Sachs Variable Insurance Trust: Goldman Sachs Government Money Market Fund; Institutional Class Shares	
JNL Investors Series Trust: JNL Government Money Market Fund; Institutional Class Shares	
JNL Series Trust: JNL/Dreyfus Government Money Market Fund; Class A Shares	
Lincoln Variable Insurance Products Trust: LVIP Government Money Market Fund; Standard Class Shares	
MFS Variable Insurance Trust II: MFS US Government Money Market Portfolio; Initial Class Shares	
MML Series Investment Fund II: MML US Government Money Market Fund; Initial Class Shares	
Nationwide Variable Insurance Trust: NVIT Government Money Market Fund; Class I Shares	
New York Life Investments VP Funds Trust: NYLI VP US Government Money Market Portfolio; Initial Class Shares	
Northwestern Mutual Series Fund, Inc: Government Money Market Portfolio	
Penn Series Funds, Inc: Money Market Fund	
Prudential Series Fund: PSF PGIM Government Money Market Portfolio; Class I Shares	
Schwab Annuity Portfolios: Schwab Government Money Market Portfolio	
Securian Funds Trust: Government Money Market Fund	
Thrivent Series Fund, Inc: Thrivent Money Market Portfolio	
TIAA-CREF Life Funds: Nuveen Life Money Market Fund	TLMXX
Transamerica Series Trust: Transamerica BlackRock Government Money Market VP; Service Class Shares	
Variable Insurance Products Fund V: Government Money Market Portfolio; Initial Class Shares	
Voya Government Money Market Portfolio; Class I Shares	IVMXX
Voya Investors Trust: Voya Government Liquid Assets Portfolio; Service 2 Class Shares	ITLXX



**Index Name    Full Fund Name**

**Nasdaq Symbol**

---

**Lipper VUF Utility Funds Index**

EQ Advisors Trust: EQ/MFS Utilities Series Portfolio; Class IB Shares

Guardian Variable Products Trust: Guardian Global Utilities VIP Fund

JNL Series Trust: JNL/Mellon Utilities Sector Fund; Class A Shares

MFS Variable Insurance Trust: MFS Utilities Series; Initial Class Shares

New York Life Investments VP Funds Trust: NYLI VP Fidelity Institutional AM Utilities Portfolio; Svc CI Shs

ProFunds: ProFund VP Utilities

Rydex Variable Trust: Utilities Fund

Variable Insurance Products Fund IV: Utilities Portfolio; Initial Class Shares

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**USDE Underlying Fund**

**Lipper VUF Global Multi-Cap Growth Funds Index**

AB Variable Products Series Fund, Inc: AB Sustainable Global Thematic Portfolio; Class B Shares

American Funds Insurance Series: American Funds Global Growth Portfolio; Class 4 Shares

American Funds Insurance Series: American Funds Managed Risk Growth and Income Portfolio; Class P2 Shares

Janus Aspen Series: Janus Henderson Global Sustainable Equity Portfolio; Service Class Shares

JNL Series Trust: JNL/AB Sustainable Global Thematic Fund; Class A Shares

JNL Series Trust: JNL/American Funds Global Growth Fund; Class A Shares

John Hancock Variable Insurance Trust: American Global Growth Trust; Series II Shares

JAHWX

Lincoln Variable Insurance Products Trust: LVIP American Global Growth Fund; Service Class II Shares

Nationwide Variable Insurance Trust: NVIT American Funds Global Growth Fund; Class II Shares

---

**Lipper VUF International Large-Cap Core Funds Index**

Allianz Variable Insurance Products Trust: AZL International Index Fund; Class 2 Shares	
AuguStar Variable Insurance Products Fund Inc: AVIP BlackRock Advantage International Equity Portfolio	
BlackRock Variable Series Funds, Inc: BlackRock International Index V.I. Fund; Class I Shares	BIIVX
Brighthouse Funds Trust I: MFS Research International Portfolio; Class A Shares	
Brighthouse Funds Trust II: MetLife MSCI EAFE Index Portfolio; Class A Shares	
EQ Advisors Trust: ATM International Managed Volatility Portfolio; Class K Shares	
EQ Advisors Trust: EQ/International Core Managed Volatility Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/International Equity Index Portfolio; Class IA Shares	
EQ Advisors Trust: EQ/International Managed Volatility Portfolio; Class K Shares	
Guardian Variable Products Trust: Guardian International Equity VIP Fund	
Ivy Variable Insurance Portfolios: Macquarie VIP International Core Equity Series; Service Class Shares	
Janus Aspen Series: Janus Henderson Overseas Portfolio; Service Shares	
JNL Series Trust: JNL International Index Fund; Class I Shares	
Lazard Retirement Series, Inc: Lazard Retirement International Equity Portfolio; Service Class Shares	
Lincoln Variable Insurance Products Trust: LVIP MFS International Growth Fund; Standard Class Shares	
Lincoln Variable Insurance Products Trust: LVIP SSgA International Index Fund; Standard Class Shares	
MML Series Investment Fund: MML International Equity Fund; Class II Shares	
Nationwide Variable Insurance Trust: NVIT International Equity Fund; Class I Shares	
Nationwide Variable Insurance Trust: NVIT International Index Fund; Class Y Shares	
Pacific Select Fund: International Large-Cap Portfolio; Class I Shares	
Penn Series Funds, Inc: Developed International Index Fund	
Seasons Series Trust: SA Multi-Managed International Equity Portfolio; Class 1 Shares	
SunAmerica Series Trust: SA International Index Portfolio; Class 1 Shares	
SunAmerica Series Trust: SA Morgan Stanley International Equities Portfolio; Class 1 Shares	
Thrivent Series Fund, Inc: Thrivent International Index Portfolio	
TIAA-CREF Life Funds: Nuveen Life International Equity Fund	TLINX
Transamerica Series Trust: Transamerica MSCI EAFE Index VP; Service Class Shares	
VALIC Company I: International Equities Index Fund	VCIEIX
Voya Variable Portfolios, Inc: Voya International Index Portfolio; Class I Shares	IIIIIX
Voya Variable Portfolios, Inc: Voya VACS Index Series I Portfolio	VVIIIX

---

**Lipper VUF International Large-Cap Growth Funds Index**

Advanced Series Trust: AST International Equity Portfolio	
AIM Variable Insurance Funds (Invesco Variable Insurance Funds): Invesco VI EQV Internatl Eqty Fd; Srs II Shs	
American Funds Insurance Series: International Fund; Class 1 Shares	
American Funds Insurance Series: International Growth & Income Fund; Class 2 Shares	
BlackRock Variable Series Funds, Inc: BlackRock International V.I. Fund; Class I Shares	
Brighthouse Funds Trust I: Brighthouse/Artisan International Portfolio; Class A Shares	
Columbia Funds Variable Series Trust II: Variable Portfolio - Partners International Core Eqty Fd; Class 1 Shs	
Columbia Funds Variable Series Trust II: Variable Portfolio - Partners International Growth Fund; Class 1 Shs	
EQ Advisors Trust: EQ/MFS International Growth Portfolio; Class IB Shares	
Guardian Variable Products Trust: Guardian International Growth VIP Fund	
Hartford Series Fund, Inc: Hartford International Opportunities HLS Fund; Class IA Shares	HIAOX
JNL Series Trust: JNL/Baillie Gifford International Growth Fund; Class A Shares	
JNL Series Trust: JNL/WCM Focused International Equity Fund; Class I Shares	
JNL Series Trust: JNL/William Blair International Leaders Fund; Class A Shares	
Lincoln Variable Insurance Products Trust: LVIP American Century International Fund; Standard Class II Shares	
MFS Variable Insurance Trust II: MFS International Growth Portfolio; Service Class Shares	
Nationwide Variable Insurance Trust: NVIT NS Partners International Focused Growth Fund; Class II Shares	
New Age Alpha Variable Funds Trust: NAA World Equity Income Series	
New York Life Investments VP Funds Trust: NYLI VP PineStone International Equity Portfolio; Initial CI Shs	
Northwestern Mutual Series Fund, Inc: International Growth Portfolio	
Northwestern Mutual Series Fund, Inc: Research International Core Portfolio	
Pacific Select Fund: International Growth Portfolio; Class P Shares	
Penn Series Funds, Inc: International Equity Fund	
Principal Variable Contracts Funds, Inc: Diversified International Account; Class 1 Shares	
SunAmerica Series Trust: SA Fidelity Institutional AM International Growth Portfolio; Class 1 Shares	
Transamerica Series Trust: Transamerica International Focus VP; Initial Class Shares	
VALIC Company I: International Growth Fund	VCINX
Vanguard Variable Insurance Fund: International Portfolio; Investor Share Class	
Variable Insurance Products Fund II: International Capital Appreciation Portfolio; Investor Class Shares	
Virtus Variable Insurance Trust: Virtus SGA International Growth Series; Class A Shares	

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper VUF International Multi-Cap Core Funds Index**

Columbia Funds Variable Series Trust II: Columbia Variable Portfolio-Overseas Core Fund; Class 1 Shares	
JNL Series Trust: JNL/Mellon International Index Fund; Class A Shares	
John Hancock Variable Insurance Trust: International Equity Index Trust; Series NAV Shares	JVANX
Lincoln Variable Insurance Products Trust: LVIP Dimensional International Equity Managed Volatility Fd; Svc Sh	
Lincoln Variable Insurance Products Trust: LVIP Multi-Manager International Eqty Mngd Vol;Service	
Nationwide Variable Insurance Trust: NVIT GS International Equity Insights Fund; Class Y Shares	
Thrivent Series Fund, Inc: Thrivent International Allocation Portfolio	
VALIC Company I: International Socially Responsible Fund	VCSOX
Vanguard Variable Insurance Fund: Total International Stock Market Index Portfolio; Investor Share Class	
Variable Insurance Products Fund II: International Index Portfolio; Initial Class Shares	

**Lipper VUF International Multi-Cap Growth Funds Index**

Brighthouse Funds Trust II: Baillie Gifford International Stock Portfolio; Class A Shares	
EQ Advisors Trust: EQ/MFS International Intrinsic Value Portfolio; Class IB Shares	
JNL Series Trust: JNL/American Funds International Fund; Class A Shares	
JNL Series Trust: JNL/Lazard International Quality Growth Fund; Class I Shares	
John Hancock Variable Insurance Trust: American International Trust; Series II Shares	JAHMX
Lincoln Variable Insurance Products Trust: LVIP American International Fund; Service Class II Shares	
MFS Variable Insurance Trust II: MFS International Intrinsic Value Portfolio; Service Class Shares	
MFS Variable Insurance Trust II: MFS Research International Portfolio; Initial Class Shares	
T Rowe Price International Series, Inc: T Rowe Price International Stock Portfolio	
Variable Insurance Products Fund: Overseas Portfolio; Initial Class Shares	

---

**Lipper VUF Large-Cap Core Funds Index**

American Funds Insurance Series: Growth-Income Fund; Class 1 Shares	
Brighthouse Funds Trust II: Brighthouse/Wellington Core Equity Opportunities Portfolio; Class A Shares	
Columbia Funds Variable Insurance Trust: Columbia Variable Portfolio-Contrarian Core Fund; Class 1 Shares	
Columbia Funds Variable Series Trust II: Columbia Variable Portfolio-Disciplined Core Fund; Class 1 Shs	
Columbia Funds Variable Series Trust II: Columbia Variable Portfolio-Select Large Cap Eq Fd; Class 1 Share	
Columbia Funds Variable Series Trust II: Variable Portfolio - Partners Core Equity Fund; Class 1 Shares	
EQ Advisors Trust: ATM Large Cap Managed Volatility Portfolio; Class K Shares	
EQ Advisors Trust: EQ/500 Managed Volatility Portfolio; Class K Shares	
EQ Advisors Trust: EQ/Fidelity Institutional AM Large Cap Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/Large Cap Core Managed Volatility Portfolio; Class IB Shares	
Franklin Templeton Variable Insurance Products Trust: Franklin Rising Dividends VIP Fund; Class 2 Shs	
Hartford Series Fund, Inc: Hartford Disciplined Equity HLS Fund; Class IA Shares	HIAGX
Hartford Series Fund, Inc: Hartford Stock HLS Fund; Class IA Shares	HSTAX
JNL Series Trust: JNL/American Funds Growth-Income Fund; Class A Shares	
JNL Series Trust: JNL/American Funds Washington Mutual Investors Fund; Class A Shares	
Legg Mason Partners Variable Equity Trust: ClearBridge Variable Appreciation Portfolio; Class I Shares	
Lincoln Variable Insurance Products Trust: LVIP American Growth-Income Fund; Service Class II Shares	
Lincoln Variable Insurance Products Trust: LVIP SSgA Large Cap Managed Volatility Fund; Service Class Shares	
Nationwide Variable Insurance Trust: NVIT American Funds Growth-Income Fund; Class II Shares	
Nationwide Variable Insurance Trust: NVIT BNY Mellon Dynamic U.S. Core Fund; Class I Shares	
Nationwide Variable Insurance Trust: NVIT Managed American Funds Growth-Income Fund; Class II Shares	
Pacific Select Fund: Large-Cap Core Portfolio; Class P Shares	
Prudential Series Fund: PSF PGIM Jennison Blend Portfolio; Class I Shares	
Putnam Variable Trust: Putnam VT Sustainable Leaders Fund; Class IA Shares	
Transamerica Series Trust: Transamerica JPMorgan Enhanced Index VP; Initial Class Shares	
VALIC Company I: Large Capital Growth Fund	VLCGX
VALIC Company I: US Socially Responsible Fund	VSRDX
Vanguard Variable Insurance Fund: Capital Growth Portfolio; Investor Share Class	
Voya Investors Trust: Voya VACS Index Series S Portfolio	VVIPX
Voya Variable Portfolios, Inc: Voya Russell Large Cap Index Portfolio; Service Class Shares	IRLCX

---

**Lipper VUF Large-Cap Growth Funds Index**

Advanced Series Trust: AST Large-Cap Growth Portfolio	
American Funds Insurance Series: Growth Fund; Class 2 Shares	
Brighthouse Funds Trust I: American Funds Growth Portfolio; Class C Shares	
Brighthouse Funds Trust II: BlackRock Capital Appreciation Portfolio; Class A Shares	
Brighthouse Funds Trust II: Jennison Growth Portfolio; Class A Shares	
Columbia Funds Variable Series Trust II: Columbia Variable Portfolio-Large Cap Growth Fund; Class 1 Shares	
Columbia Funds Variable Series Trust II: CTIVP - Principal Blue Chip Growth Fund; Class 1 Shares	
EQ Advisors Trust: EQ/JPMorgan Growth Stock Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/Large Cap Growth Index Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/Large Cap Growth Managed Volatility Portfolio; Class IB Shares	
EQ Advisors Trust: Multimanager Aggressive Equity Portfolio; Class IA Shares	
JNL Series Trust: JNL/American Funds Growth Fund; Class A Shares	
JNL Series Trust: JNL/BlackRock Large Cap Select Growth Fund; Class A Shares	
JNL Series Trust: JNL/Mellon Nasdaq 100 Index Fund; Class A Shares	
JNL Series Trust: JNL/T. Rowe Price Growth Stock Fund; Class A Shares	
John Hancock Variable Insurance Trust: Blue Chip Growth Trust; NAV Shares	JAEDX
Lincoln Variable Insurance Products Trust: LVIP AllianceBernstein Large Cap Growth Fund; Standard Class Shares	
Lincoln Variable Insurance Products Trust: LVIP American Growth Fund; Service Class II Shares	
Lincoln Variable Insurance Products Trust: LVIP Blended Large Cap Growth Managed Volatility Fund; Service	
MFS Variable Insurance Trust: MFS Growth Series; Initial Class Shares	
Nationwide Variable Insurance Trust: NVIT American Funds Growth Fund; Class II Shares	
Northwestern Mutual Series Fund, Inc: Focused Appreciation Portfolio	
Prudential Series Fund: PSF PGIM Jennison Growth Portfolio; Class I Shares	
T Rowe Price Equity Series, Inc: T Rowe Price Blue Chip Growth Portfolio; Portfolio Class	
Thrivent Series Fund, Inc: Thrivent Large Cap Growth Portfolio	
Transamerica Series Trust: Transamerica WMC US Growth VP; Initial Class Shares	
VALIC Company I: Growth Fund	VCULX
Vanguard Variable Insurance Fund: Growth Portfolio; Investor Share Class	
Variable Insurance Products Fund II: Contrafund Portfolio; Initial Class Shares	
Voya Investors Trust: Voya Large Cap Growth Portfolio; Adviser Class Shares	IEOPX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper VUF Large-Cap Value Funds Index**

American Funds Insurance Series: Washington Mutual Investors Fund; Class 1 Shares  
Brighthouse Funds Trust II: MFS Value Portfolio; Class A Shares  
Columbia Funds Variable Series Trust II: CTIVP - MFS Value Fund; Class 1 Shares  
JNL Series Trust: JNL/DoubleLine Shiller Enhanced CAPE Fund; Class A Shares  
JNL Series Trust: JNL/Mellon Dow Index Fund; Class A Shares  
JNL Series Trust: JNL/T Rowe Price Value Fund; Class A Shares  
MFS Variable Insurance Trust: MFS Value Series; Service Class Shares  
Prudential Series Fund: PSF PGIM Jennison Value Portfolio; Class I Shares  
Vanguard Variable Insurance Fund: Diversified Value Portfolio; Investor Share Class  
Variable Insurance Products Fund III: Growth & Income Portfolio; Service Class 2 Shares



## Lipper VUF Mid-Cap Core Funds Index

AIM Variable Insurance Funds (Invesco Variable Insurance Funds): Invesco VI Main Street Mid Cap Fd; Srs I Shs	
Brighthouse Funds Trust I: Victory Sycamore Mid Cap Value Portfolio; Class B Shares	
Brighthouse Funds Trust II: Brighthouse/Artisan Mid Cap Value Portfolio; Class A Shares	
Columbia Funds Variable Series Trust II: Columbia Variable Portfolio-Select Mid Cap Value Fund; CI 1 Shares	
EQ Advisors Trust: EQ/Goldman Sachs Mid Cap Value Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/Mid Cap Value Managed Volatility Portfolio; Class IB Shares	
Goldman Sachs Variable Insurance Trust: Goldman Sachs Mid Cap Value Fund; Institutional Class Shares	
Guardian Variable Products Trust: Guardian Small-Mid Cap Core VIP Fund	
JNL Series Trust: JNL Multi-Manager Mid Cap Fund; Class I Shares	
JNL Series Trust: JNL/MFS Mid Cap Value Fund; Class A Shares	
Legg Mason Partners Variable Equity Trust: ClearBridge Variable Mid Cap Portfolio; Class II Shares	
Lincoln Variable Insurance Products Trust: LVIP American Century Select Mid Cap Managed Volatility; Svc CI Shs	
Lincoln Variable Insurance Products Trust: LVIP JPMorgan Mid Cap Value Fund; Standard Class Shares	
Lincoln Variable Insurance Products Trust: LVIP JPMorgan Select Mid Cap Value Managed Volatility Fund; Service	
Lincoln Variable Insurance Products Trust: LVIP Macquarie Mid Cap Value Fund; Standard Class Shares	
Lord Abbett Series Fund, Inc: Mid Cap Stock Portfolio; Variable Contract Class Shares	
Neuberger Berman Advisers Management Trust: Mid Cap Intrinsic Value Portfolio; Class I Shares	
New York Life Investments VP Funds Trust: NYLI VP Schroders Mid Cap Opportunities Portfolio; Svc CI Shs	
Pacific Select Fund: Mid-Cap Plus Bond Alpha Portfolio; Class I Shares	
Pacific Select Fund: Mid-Cap Value Portfolio; Class P Shares	
Penn Series Funds, Inc: Mid Cap Value Fund	
Thrivent Series Fund, Inc: Thrivent Mid Cap Stock Portfolio	
Ultra Series Fund: Mid Cap Fund; Class I Shares	
VALIC Company I: Mid Cap Value Fund	VVMCX
Vanguard Variable Insurance Fund: Mid-Cap Index Portfolio; Investor Share Class	
Variable Insurance Products Fund III: Mid Cap Portfolio; Service Class 2 Shares	
Variable Insurance Products Fund III: Value Strategies Portfolio; Service Class 2 Shares	
Voya Partners, Inc: VY JPMorgan Mid Cap Value Portfolio; Service Class Shares	IJMSX
Voya Variable Portfolios, Inc: Voya Russell Mid Cap Index Portfolio; Class I Shares	IIRMX
Voya Variable Portfolios, Inc: Voya VACS Index Series MC Portfolio	VVIMX

## Index Name    Full Fund Name

## Nasdaq Symbol

### Lipper VUF Mid-Cap Funds Index

AIM Variable Insurance Funds (Invesco Variable Insurance Funds): Invesco VI American Value Fund; Class II Shs	UMCCX
Alger Portfolios: Alger Mid Cap Growth Portfolio; Class I-2 Shares	AMGOX
Alger Portfolios: Alger SmallCap Growth Portfolio; Class I-2 Shares	AASOX
EQ Advisors Trust: EQ/Janus Enterprise Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/Mid Cap Index Portfolio; Class IB Shares	
Hartford Series Fund, Inc: Hartford MidCap HLS Fund; Class IA Shares	HIMCX
Janus Aspen Series: Janus Henderson Enterprise Portfolio; Institutional Shares	JAAGX
JNL Series Trust: JNL/Mellon S&P 400 MidCap Index Fund; Class A Shares	
JNL Series Trust: JNL/MFS Mid Cap Value Fund; Class A Shares	
JNL Series Trust: JNL/T Rowe Price Mid-Cap Growth Fund; Class A Shares	
John Hancock Variable Insurance Trust: Mid Cap Index Trust; Series I Shares	JECIX
John Hancock Variable Insurance Trust: Mid Value Trust; Series NAV Shares	JAGWX
Lincoln Variable Insurance Products Trust: LVIP American Century Mid Cap Value Fund; Service Class Shares	
Morgan Stanley Variable Insurance Fund Inc: Discovery Portfolio; Class II Shares	MMGTX
Northwestern Mutual Series Fund, Inc: Mid Cap Growth Stock Portfolio	
Thrivent Series Fund, Inc: Thrivent Mid Cap Stock Portfolio	
VALIC Company I: Mid Cap Index Fund	VMIDX
VALIC Company I: Mid Cap Strategic Growth Fund	VMSGX
VALIC Company I: Mid Cap Value Fund	VVMCX
Vanguard Variable Insurance Fund: Mid-Cap Index Portfolio; Investor Share Class	
Variable Insurance Products Fund III: Mid Cap Portfolio; Service Class 2 Shares	
Voya Partners, Inc: VY Baron Growth Portfolio; Service Class Shares	IBSSX
Voya Partners, Inc: VY JPMorgan Mid Cap Value Portfolio; Service Class Shares	IJMSX
Voya Partners, Inc: VY T Rowe Price Diversified Mid Cap Growth Portfolio; Initial Class Shares	IAXIX
Voya Variable Portfolios, Inc: Voya Index Plus MidCap Portfolio; Class I Shares	IPMIX
Voya Variable Portfolios, Inc: Voya Russell Mid Cap Growth Index Portfolio; Service Class Shares	IRGUX
Voya Variable Portfolios, Inc: Voya Russell Mid Cap Index Portfolio; Class I Shares	IIRMX
Voya Variable Portfolios, Inc: Voya VACS Index Series MC Portfolio	VVIMX
Voya Variable Products Trust: Voya MidCap Opportunities Portfolio; Class I Shares	IIMOX
Wanger Advisors Trust: Wanger Acorn	WUSAX

## Lipper VUF Mid-Cap Growth Funds Index

AIM Variable Insurance Funds (Invesco Variable Insurance Funds): Invesco VI Discovery MC Gr Fd;Srs I	
Brighthouse Funds Trust I: Morgan Stanley Discovery Portfolio; Class A Shares	
Brighthouse Funds Trust I: T Rowe Price Mid Cap Growth Portfolio; Class B Shares	
Brighthouse Funds Trust II: Frontier Mid Cap Growth Portfolio; Class A Shares	
Columbia Funds Variable Series Trust II: CTIVP - Westfield Mid Cap Growth Fund; Class 1 Shares	
EQ Advisors Trust: EQ/Janus Enterprise Portfolio; Class IB Shares	
Franklin Templeton Variable Insurance Products Trust: Franklin Small-Mid Cap Growth VIP Fund; Class 2 Shares	
Hartford Series Fund, Inc: Hartford MidCap HLS Fund; Class IA Shares	HIMCX
Ivy Variable Insurance Portfolios: Macquarie VIP Mid Cap Growth Series; Service Class Shares	
Janus Aspen Series: Janus Henderson Enterprise Portfolio; Service Shares	
JNL Series Trust: JNL/JPMorgan Midcap Growth Fund; Class A Shares	
JNL Series Trust: JNL/T Rowe Price Mid-Cap Growth Fund; Class A Shares	
Lincoln Variable Insurance Products Trust: LVIP American Century Capital Appreciation Fund; Standard Class Sh	
Lincoln Variable Insurance Products Trust: LVIP Baron Growth Opportunities Fund; Service Class Shares	
Lincoln Variable Insurance Products Trust: LVIP Blended Mid Cap Managed Volatility Fund; Service Class Shares	
Lincoln Variable Insurance Products Trust: LVIP T Rowe Price Structured Mid-Cap Growth Fund; Standard CI Shs	
Nationwide Variable Insurance Trust: NVIT Allspring Discovery Fund; Class I Shares	
Neuberger Berman Advisers Management Trust: Mid Cap Growth Portfolio; Class S Shares	
Northwestern Mutual Series Fund, Inc: Mid Cap Growth Stock Portfolio	
Pacific Select Fund: Mid-Cap Growth Portfolio; Class P Shares	
Principal Variable Contracts Funds, Inc: MidCap Account; Class 1 Shares	
Prudential Series Fund: PSF Mid-Cap Growth Portfolio; Class I Shares	
SunAmerica Series Trust: SA JPMorgan Mid-Cap Growth Portfolio; Class 3 Shares	
T Rowe Price Equity Series, Inc: T Rowe Price Mid-Cap Growth Portfolio; Portfolio Class	
Transamerica Series Trust: Transamerica Janus Mid-Cap Growth VP; Initial Class Shares	
VALIC Company I: Mid Cap Strategic Growth Fund	VMSGX
Voya Partners, Inc: VY T Rowe Price Diversified Mid Cap Growth Portfolio; Initial Class Shares	IAXIX
Voya Variable Portfolios, Inc: Voya Russell Mid Cap Growth Index Portfolio; Service Class Shares	IRGUX
Voya Variable Products Trust: Voya MidCap Opportunities Portfolio; Class I Shares	IIMOX
Wanger Advisors Trust: Wanger Acorn	WUSAX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper VUF Mid-Cap Value Funds Index**

Brighthouse Funds Trust I: Allspring Mid Cap Value Portfolio; Class A Shares	
Columbia Funds Variable Series Trust II: CTIVP - Victory Sycamore Established Value Fund; Class 1 Shares	
EQ Advisors Trust: EQ/American Century Mid Cap Value Portfolio; Class IB Shares	
John Hancock Variable Insurance Trust: Mid Value Trust; Series NAV Shares	JAGWX
Lincoln Variable Insurance Products Trust: LVIP American Century Mid Cap Value Fund; Service Class Shares	
MFS Variable Insurance Trust III: MFS Mid Cap Value Portfolio; Initial Class Shares	
Nationwide Variable Insurance Trust: NVIT Victory Mid Cap Value Fund; Class II Shares	
Northwestern Mutual Series Fund, Inc: Mid Cap Value Portfolio	
Transamerica Series Trust: Transamerica Small/Mid Cap Value VP; Initial Class Shares	
Transamerica Series Trust: Transamerica TSW Mid Cap Value Opportunities VP; Service Class Shares	

Index Name    Full Fund Name

Nasdaq Symbol

**Lipper VUF Mixed-Asset Target Allocation Aggressive Growth F**

Brighthouse Funds Trust I: American Funds Growth Allocation Portfolio; Class C Shares	
Brighthouse Funds Trust I: Brighthouse Asset Allocation 100 Portfolio; Class B Shares	
Clayton Street Trust: Protective Life Dynamic Allocation Series Growth Portfolio	
EQ Advisors Trust: EQ/AB Dynamic Aggressive Growth Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/Aggressive Allocation Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/Aggressive Growth Strategy Portfolio; Class IB Shares	
JNL Series Trust: JNL Aggressive Growth Allocation Fund; Class A Shares	
JNL Series Trust: JNL/JPMorgan Managed Aggressive Growth Fund; Class A Shares	
JNL Series Trust: JNL/Vanguard Growth ETF Allocation Fund;Class A Shares	
Legg Mason Partners Variable Equity Trust: Franklin Multi-Asset Variable Growth Fund; Class I Shares	
Legg Mason Partners Variable Equity Trust: Franklin Templeton Aggressive Model Portfolio; Class II Shares	
Lincoln Variable Insurance Products Trust: LVIP Global Aggressive Growth Allocation Managed Risk Fd; Service	
Lincoln Variable Insurance Products Trust: LVIP US Aggressive Growth Alloc Mgd Risk Fund; Svc Class Shares	
MML Series Investment Fund: MML Aggressive Allocation Fund; Service Class Shares	
Nationwide Variable Insurance Trust: NVIT Blueprint Aggressive Fund; Class II Shares	
Nationwide Variable Insurance Trust: NVIT Investor Destinations Aggressive Fund; Class II Shares	
New York Life Investments VP Funds Trust: NYLI VP Equity Allocation Portfolio; Service Class Shares	
Northern Lights Variable Trust: TOPS Aggressive Growth ETF Portfolio; Class 2 Shares	
Northern Lights Variable Trust: TOPS Growth ETF Portfolio; Class 2 Shares	
Pacific Select Fund: Portfolio Optimization Aggressive-Growth Portfolio; Class I Shares	
Penn Series Funds, Inc: Aggressive Allocation Fund	
Principal Variable Contracts Funds, Inc: SAM Conservative Growth Portfolio; Class 1 Shares	
Principal Variable Contracts Funds, Inc: SAM Strategic Growth Portfolio; Class 1 Shares	
Russell Investment Funds: Equity Growth Strategy Fund	RIFJX
SunAmerica Series Trust: SA Global Index Allocation 90/10 Portfolio; Class 3 Shares	
SunAmerica Series Trust: SA Index Allocation 90/10 Portfolio; Class 3 Shares	
Thrivent Series Fund, Inc: Thrivent Aggressive Allocation Portfolio	
Transamerica Series Trust: Transamerica JPMorgan Asset Allocation-Growth VP; Initial Class Shares	
Variable Insurance Products Fund V: Fundsmanager 85% Portfolio; Investor Class Shares	
Voya Partners, Inc: Voya Solution Moderately Aggressive Portfolio; Service Class Shares	IAGSX

---

**Lipper VUF Mixed-Asset Target Allocation Conservative Funds**

Advanced Series Trust: AST JPMorgan Conservative Multi-Asset Portfolio  
 Advanced Series Trust: AST Preservation Asset Allocation Portfolio  
 AuguStar Variable Insurance Products Fund Inc: AVIP Constellation Managed Risk Balanced Portfolio  
 Brighthouse Funds Trust II: Brighthouse Asset Allocation 40 Portfolio; Class B Shares  
 Columbia Funds Variable Insurance Trust: Columbia Variable Portfolio-Managed Volatility Consv Fd; CI 2 Shs  
 Columbia Funds Variable Series Trust II: Variable Portfolio - Moderately Consv Portfolio; Class 2 Shares  
 Columbia Funds Variable Series Trust II: Variable Portfolio-Conservative Portfolio; Class 2 Shares  
 EQ Advisors Trust: EQ/Conservative Allocation Portfolio; Class IB Shares  
 EQ Advisors Trust: EQ/Conservative Growth Strategy Portfolio; Class IB Shares  
 EQ Advisors Trust: EQ/Conservative Strategy Portfolio; Class IB Shares  
 EQ Advisors Trust: EQ/Conservative-Plus Allocation Portfolio; Class IB Shares  
 EQ Advisors Trust: EQ/Ultra Conservative Strategy Portfolio; Class IB Shares  
 JNL Series Trust: JNL Conservative Allocation Fund; Class A Shares  
 JNL Series Trust: JNL/Franklin Templeton Income Fund; Class A Shares  
 JNL Series Trust: JNL/JPMorgan Managed Conservative Fund; Class A Shares  
 JNL Series Trust: JNL/JPMorgan Managed Moderate Fund; Class A Shares  
 Lincoln Variable Insurance Products Trust: LVIP Global Conservative Allocation Managed Risk Fund; Service  
 Nationwide Variable Insurance Trust: NVIT Blueprint Conservative Fund; Class II Shares  
 Nationwide Variable Insurance Trust: NVIT Blueprint Moderately Conservative Fund; Class II Shares  
 Nationwide Variable Insurance Trust: NVIT Investor Destinations Conservative Fund; Class II Shares  
 Pacific Select Fund: Pacific Dynamix - Conservative Growth Portfolio; Class I Shares  
 Pacific Select Fund: Portfolio Optimization Conservative Portfolio; Class I Shares  
 Pacific Select Fund: Portfolio Optimization Moderate-Conservative Portfolio; Class I Shares  
 Thrivent Series Fund, Inc: Thrivent Diversified Income Plus Portfolio  
 Thrivent Series Fund, Inc: Thrivent Moderately Conservative Allocation Portfolio  
 Transamerica Series Trust: Transamerica JPMorgan Asset Allocation-Conservative VP; Service Class Shares  
 Transamerica Series Trust: Transamerica JPMorgan Tactical Allocation VP; Service Class Shares  
 Vanguard Variable Insurance Fund: Conservative Allocation Portfolio; Investor Share Class  
 Variable Insurance Products Fund V: Fundsmanager 20% Portfolio; Investor Class Shares  
 Voya Partners, Inc: Voya Index Solution Income Portfolio; Class Z Shares

VSZJX

---

**Lipper VUF Mixed-Asset Target Allocation Growth Funds Index**

Advanced Series Trust: AST Capital Growth Asset Allocation Portfolio	
Advanced Series Trust: AST JPMorgan Aggressive Multi-Asset Portfolio	
Advanced Series Trust: AST JPMorgan Moderate Multi-Asset Portfolio	
Advanced Series Trust: AST Prudential Growth Allocation Portfolio	
Allianz Variable Insurance Products Fund of Funds Trust: AZL MVP Growth Index Strategy Fund	
American Funds Insurance Series: Asset Allocation Fund; Class 1 Shares	
Brighthouse Funds Trust I: American Funds Balanced Allocation Portfolio; Class C Shares	
Brighthouse Funds Trust II: Brighthouse Asset Allocation 80 Portfolio; Class B Shares	
Columbia Funds Variable Insurance Trust: Columbia Variable Portfolio-Managed Volatility Growth Fund; CI 2 Shs	
Columbia Funds Variable Insurance Trust: Columbia Variable Portfolio-US Flexible Growth Fund; Class 2 Shares	
Columbia Funds Variable Series Trust II: Variable Portfolio - Moderately Aggressive Portfolio; Class 2 Shares	
EQ Advisors Trust: EQ/Growth Strategy Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/Moderate-Plus Allocation Portfolio; Class IB Shares	
JNL Series Trust: JNL Growth Allocation Fund; Class A Shares	
JNL Series Trust: JNL/American Funds Balanced Fund; Class A Shares	
JNL Series Trust: JNL/American Funds Growth Allocation Fund; Class A Shares	
JNL Series Trust: JNL/JPMorgan Managed Growth Fund; Class A Shares	
John Hancock Variable Insurance Trust: Lifestyle Growth Portfolio; Series II Shares	JAIX
John Hancock Variable Insurance Trust: Managed Volatility Growth Portfolio; Series II Shares	JAJAX
Lincoln Variable Insurance Products Trust: LVIP American Global Growth Allocation Managed Risk Fund; Service	
Nationwide Variable Insurance Trust: NVIT American Funds Asset Allocation Fund; Class II Shares	
Pacific Select Fund: Portfolio Optimization Growth Portfolio; Class I Shares	
Principal Variable Contracts Funds, Inc: Diversified Growth Account; Class 2 Shares	
Prudential Series Fund: PSF PGIM Flexible Managed Portfolio; Class I Shares	
Thrivent Series Fund, Inc: Thrivent Moderately Aggressive Allocation Portfolio	
Transamerica Series Trust: Transamerica JPMorgan Asset Allocation-Moderate Growth VP; Service Class Shares	
Vanguard Variable Insurance Fund: Balanced Portfolio; Investor Share Class	
Variable Insurance Products Fund V: Fundsmanager 60% Portfolio; Investor Class Shares	
Variable Insurance Products Fund V: Fundsmanager 70% Portfolio; Investor Class Shares	
Voya Investors Trust: VY T Rowe Price Capital Appreciation Portfolio; Service Class Shares	ITCSX

---

**Lipper VUF Mixed-Asset Target Allocation Moderate Funds Ind**

Advanced Series Trust: AST Balanced Asset Allocation Portfolio  
 Brighthouse Funds Trust I: AB Global Dynamic Allocation Portfolio; Class B Shares  
 Brighthouse Funds Trust I: American Funds Moderate Allocation Portfolio; Class C Shares  
 Brighthouse Funds Trust I: BlackRock Global Tactical Strategies Portfolio; Class B Shares  
 Brighthouse Funds Trust I: Brighthouse Balanced Plus Portfolio; Class B Shares  
 Brighthouse Funds Trust II: Brighthouse Asset Allocation 60 Portfolio; Class B Shares  
 Columbia Funds Variable Insurance Trust: Columbia Variable Portfolio-US Flexible Moderate Growth Fd; CI 2 Shs  
 Columbia Funds Variable Series Trust II: Variable Portfolio - Moderate Portfolio; Class 2 Shares  
 Columbia Funds Variable Series Trust II: Variable Portfolio-Managed Volatility Modt Gro Fd; CI 2 Shs  
 EQ Advisors Trust: EQ/Balanced Strategy Portfolio; Class IB Shares  
 EQ Advisors Trust: EQ/Moderate Allocation Portfolio; Class IB Shares  
 EQ Advisors Trust: EQ/Moderate Growth Strategy Portfolio; Class IB Shares  
 Janus Aspen Series: Janus Henderson Balanced Portfolio; Service Shares  
 JNL Series Trust: JNL Moderate Allocation Fund; Class A Shares  
 JNL Series Trust: JNL Moderate Growth Allocation Fund; Class A Shares  
 JNL Series Trust: JNL/American Funds Moderate Growth Allocation Fund; Class A Shares  
 JNL Series Trust: JNL/JPMorgan Managed Moderate Growth Fund; Class A Shares  
 JNL Series Trust: JNL/WMC Balanced Fund; Class A Shares  
 John Hancock Variable Insurance Trust: Managed Volatility Balanced Portfolio; Series II Shares                      JAJRX  
 Lincoln Variable Insurance Products Trust: LVIP Global Moderate Allocation Managed Risk Fund; Service CI Shs  
 Nationwide Variable Insurance Trust: NVIT Blueprint Moderate Fund; Class II Shares  
 Northwestern Mutual Series Fund, Inc: Balanced Portfolio  
 Pacific Select Fund: Pacific Dynamix - Moderate Growth Portfolio; Class I Shares  
 Pacific Select Fund: Portfolio Optimization Moderate Portfolio; Class I Shares  
 Prudential Series Fund: PSF PGIM 50/50 Balanced Portfolio; Class I Shares  
 Thrivent Series Fund, Inc: Thrivent Moderate Allocation Portfolio  
 Transamerica Series Trust: Transamerica Goldman Sachs Managed Risk - Balanced ETF VP; Service Class Shares  
 Transamerica Series Trust: Transamerica JPMorgan Asset Allocation-Moderate VP; Service Class Shares  
 Variable Insurance Products Fund III: Balanced Portfolio; Investor Class Shares  
 Variable Insurance Products Fund V: Fundsmanager 50% Portfolio; Investor Class Shares



## Lipper VUF Multi-Cap Core Funds Index

Allianz Variable Insurance Products Trust: AZL DFA US Core Equity Fund	
AuguStar Variable Insurance Products Fund Inc: AVIP US Intech Low Volatility Portfolio	
Brighthouse Funds Trust I: Brighthouse/Wellington Large Cap Research Portfolio; Class A Shares	
EQ Advisors Trust: EQ/Common Stock Index Portfolio; Class IA Shares	
EQ Advisors Trust: EQ/Value Equity Portfolio; Class IB Shares	
Hartford Series Fund, Inc: Hartford Capital Appreciation HLS Fund; Class IA Shares	HIACX
JNL Series Trust: JNL/DFA US Core Equity Fund; Class A Shares	
JNL Series Trust: JNL/Goldman Sachs 4 Fund; Class A Shares	
JNL Series Trust: JNL/Mellon US Stock Market Index Fund; Class A Shares	
JNL Series Trust: JNL/Morningstar Wide Moat Index Fund; Class I Shares	
John Hancock Variable Insurance Trust: Fundamental All Cap Core Trust; Series NAV Shares	JADDX
John Hancock Variable Insurance Trust: Total Stock Market Index Trust; Series I Shares	JETSX
Lincoln Variable Insurance Products Trust: LVIP ClearBridge Franklin Select Lrg Cp Mgd Vol Fd; Service Class	
Lincoln Variable Insurance Products Trust: LVIP Dimensional US Core Equity 1 Fund; Standard Class Shares	
Lincoln Variable Insurance Products Trust: LVIP Dimensional US Core Equity 2 Fund; Standard Class Shares	
Lincoln Variable Insurance Products Trust: LVIP Dimensional US Equity Managed Volatility Fund; Service	
Lincoln Variable Insurance Products Trust: LVIP Franklin Templeton Multi-Factor LCE Fnd; Standard Class Shares	
Lincoln Variable Insurance Products Trust: LVIP Global Growth Allocation Managed Risk Fund; Service Cl Shs	
Lincoln Variable Insurance Products Trust: LVIP Macquarie Social Awareness Fund; Standard Class Shares	
Lincoln Variable Insurance Products Trust: LVIP SSgA Global Tactical Allocation Managed Volatility Fund; Svc	
Nationwide Variable Insurance Trust: NVIT GS Large Cap Equity Fund; Class Y Shares	
Russell Investment Funds: US Strategic Equity Fund	RIFAX
TIAA-CREF Life Funds: Nuveen Life Stock Index Fund	TLSTX
VALIC Company I: Systematic Core Fund	VCGAX
Vanguard Variable Insurance Fund: Total Stock Market Index Portfolio; Investor Share Class	
Variable Insurance Products Fund II: Total Market Index Portfolio; Initial Class Shares	
Variable Insurance Products Fund: Stock Selector Portfolio; Investor Class Shares	
Voya Investors Trust: Voya Retirement Growth Portfolio; Advisor Class Shares	IRGPX
Voya Variable Funds: Voya Growth and Income Portfolio; Class I Shares	IIVGX
Voya Variable Portfolios, Inc: Voya Index Plus LargeCap Portfolio; Class I Shares	IPLIX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper VUF Multi-Cap Growth Funds Index**

Alger Portfolios: Alger LargeCap Growth Portfolio; Class I-2 Shares	AAGOX
American Funds Insurance Series: Managed Risk Growth Fund; Class P2 Shares	
EQ Advisors Trust: EQ/ClearBridge Select Equity Managed Volatility Portfolio; Class K Shares	
EQ Advisors Trust: EQ/MFS Mid Cap Focused Growth Portfolio; Class IB Shares	
John Hancock Variable Insurance Trust: Mid Cap Growth Trust; Series NAV Shares	JAEVX
Morgan Stanley Variable Insurance Fund Inc: Growth Portfolio; Class I Shares	MEGIX
SunAmerica Series Trust: SA Wellington Capital Appreciation Portfolio; Class 1 Shares	
T Rowe Price Equity Series, Inc: T Rowe Price All-Cap Opportunities Portfolio	
Variable Insurance Products Fund III: Growth Opportunities Portfolio; Investor Class Shares	
Variable Insurance Products Fund: Growth Portfolio; Initial Class Shares	

---

**Lipper VUF Multi-Cap Value Funds Index**

AB Variable Products Series Fund, Inc: AB VPS Relative Value Portfolio; Class B Shares	
Advanced Series Trust: AST Large-Cap Value Portfolio	
AIM Variable Insurance Funds (Invesco Variable Insurance Funds): Invesco VI Comstock Fund; Series II Shs	
Allianz Variable Insurance Products Trust: AZL Russell 1000 Value Index Fund; Class 2 Share	
Brighthouse Funds Trust I: Invesco Comstock Portfolio; Class A Shares	
Brighthouse Funds Trust I: T Rowe Price Large Cap Value Portfolio; Class A Shares	
Columbia Funds Variable Series Trust II: Columbia Variable Portfolio-Select Large-Cap Value Fund; Class 1 Shs	
Columbia Funds Variable Series Trust II: CTIVP - T Rowe Price Large Cap Value Fund; Class 1 Shares	
DFA Investment Dimensions Group Inc: Dimensional VA US Large Value Portfolio	
EQ Advisors Trust: EQ/JPMorgan Value Opportunities Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/Large Cap Value Index Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/Large Cap Value Managed Volatility Portfolio; Class IB Shares	
Franklin Templeton Variable Insurance Products Trust: Franklin Mutual Shares VIP Fund; Class 2 Shares	
JNL Series Trust: JNL/RAFI Multi-Factor US Equity Fund; Class A Shares	
JNL Series Trust: JNL/WMC Value Fund; Class A Shares	
Lincoln Variable Insurance Products Trust: LVIP American Century Value Fund; Service Class Shares	
Lincoln Variable Insurance Products Trust: LVIP Fidelity Institutional AM Select Core Eqty MV Fd; Service Shs	
Lincoln Variable Insurance Products Trust: LVIP Macquarie Value Fund; Standard Class Shares	
Lord Abbett Series Fund, Inc: Growth & Income Portfolio; Variable Contract Class Shares	
MML Series Investment Fund II: MML Equity Fund; Initial Class Shares	
New York Life Investments VP Funds Trust: NYLI VP Epoch US Equity Yield Portfolio; Initial Class Shares	
Northwestern Mutual Series Fund, Inc: Domestic Equity Portfolio	
Pacific Select Fund: Value Advantage Portfolio; Class P Shares	
Pacific Select Fund: Value Portfolio; Class P Shares	
Seasons Series Trust: SA Multi-Managed Large Cap Value Portfolio; Class 1 Shares	
SunAmerica Series Trust: SA Franklin BW US Large Cap Value Portfolio; Class 1 Shares	
Thrivent Series Fund, Inc: Thrivent Large Cap Value Portfolio	
VALIC Company I: Dividend Value Fund	VCIGX
VALIC Company I: Systematic Value Fund	VBCVX
Victory Variable Insurance Funds: Victory RS Large Cap Alpha VIP Series; Class I Shares	GUSFX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper VUF Short Investment Grade Funds Index**

Advanced Series Trust: AST Bond Portfolio 2024

Brighthouse Funds Trust I: Brighthouse/Franklin Low Duration Total Return Portfolio; Class A Shares

Columbia Funds Variable Series Trust II: Columbia Variable Portfolio-Limited Duration Credit Fund; Class 1 Shs

Ivy Variable Insurance Portfolios: Macquarie VIP Limited-Term Bond Series

Lincoln Variable Insurance Products Trust: LVIP Macquarie Limited Term Diversified Income Fund; Service CI Shs

MML Series Investment Fund II: MML Short-Duration Bond Fund; Class II Shares

Pacific Select Fund: Core Income Portfolio; Class P Shares

Penn Series Funds, Inc: Limited Maturity Bond Fund

Thrivent Series Fund, Inc: Thrivent Limited Maturity Bond Portfolio

Vanguard Variable Insurance Fund: Short-Term Investment-Grade Portfolio; Investor Share Class

## Lipper VUF Small Cap Funds Index

Advanced Series Trust: AST Small-Cap Equity Portfolio	
AIM Variable Insurance Funds (Invesco Variable Insurance Funds): Invesco VI Main Street SC Fd;Srs II	
Allianz Variable Insurance Products Trust: AZL Small Cap Stock Index Fund; Class 2 Shares	
BNY Mellon Investment Portfolios: Small Cap Stock Index Portfolio; Service Shares	
Brighthouse Funds Trust I: Brighthouse Small Cap Value Portfolio; Class A Shares	
Brighthouse Funds Trust II: Neuberger Berman Genesis Portfolio; Class A Shares	
Brighthouse Funds Trust II: T Rowe Price Small Cap Growth Portfolio; Class A Shares	
Delaware VIP Trust: Macquarie VIP Small Cap Value Series; Service Class Shares	
DFA Investment Dimensions Group Inc: Dimensional VA US Targeted Value Portfolio	
EQ Advisors Trust: 1290 VT GAMCO Small Company Value Portfolio; Class IB Shares	
EQ Advisors Trust: ATM Small Cap Managed Volatility Portfolio; Class K Shares	
EQ Advisors Trust: EQ/2000 Managed Volatility Portfolio; Class K Shares	
EQ Advisors Trust: EQ/AB Small Cap Growth Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/Small Company Index Portfolio; Class IB Shares	
Franklin Templeton Variable Insurance Products Trust: Franklin Small Cap Value VIP Fund; Class 2 Shares	
Hartford Series Fund Inc: Hartford Small Cap Growth HLS Fund; Class IA Shares	HISCX
JNL Series Trust: JNL Multi-Manager Small Cap Growth Fund; Class A Shares	
JNL Series Trust: JNL Multi-Manager Small Cap Value Fund; Class A Shares	
JNL Series Trust: JNL Small Cap Index Fund; Class I Shares	
JNL Series Trust: JNL/Invesco Small Cap Growth Fund; Class A Shares	
JNL Series Trust: JNL/Mellon Small Cap Index Fund; Class A Shares	
Lincoln Variable Insurance Products Trust: LVIP SSgA Small-Cap Index Fund; Standard Class Shares	
Lincoln Variable Insurance Products Trust: LVIP SSgA SMID Cap Managed Volatility Fund; Service Class Shares	
Northwestern Mutual Series Fund, Inc: Small Cap Growth Stock Portfolio	
Prudential Series Fund: PSF Small-Cap Stock Index Portfolio; Class I Shares	
Thrivent Series Fund, Inc: Thrivent Small Cap Index Portfolio	QTSCI
Thrivent Series Fund, Inc: Thrivent Small Cap Stock Portfolio	
VALIC Company I: Small Cap Growth Fund	VVSGX
VALIC Company I: Small Cap Index Fund	VCSLX
Vanguard Variable Insurance Fund: Small Company Growth Portfolio; Investor Share Class	

---

**Lipper VUF Small-Cap Core Funds Index**

AB Variable Products Series Fund, Inc: AB VPS Discovery Value Portfolio; Class B Shares	
AIM Variable Insurance Funds (Invesco Variable Insurance Funds): Invesco VI Main Street SC Fd;Srs II	
Allianz Variable Insurance Products Trust: AZL Small Cap Stock Index Fund; Class 2 Shares	
BNY Mellon Investment Portfolios: Small Cap Stock Index Portfolio; Service Shares	
Brighthouse Funds Trust I: Brighthouse Small Cap Value Portfolio; Class A Shares	
Brighthouse Funds Trust II: MetLife Russell 2000 Index Portfolio; Class A Shares	
Columbia Funds Variable Series Trust II: Variable Portfolio - Partners Small Cap Value Fund; Class 1 Shares	
Delaware VIP Trust: Macquarie VIP Small Cap Value Series; Service Class Shares	
EQ Advisors Trust: 1290 VT GAMCO Small Company Value Portfolio; Class IB Shares	
EQ Advisors Trust: ATM Small Cap Managed Volatility Portfolio; Class K Shares	
EQ Advisors Trust: EQ/2000 Managed Volatility Portfolio; Class K Shares	
EQ Advisors Trust: EQ/400 Managed Volatility Portfolio; Class K Shares	
EQ Advisors Trust: EQ/Small Company Index Portfolio; Class IB Shares	
JNL Series Trust: JNL Mid Cap Index Fund; Class I Shares	
JNL Series Trust: JNL Multi-Manager Small Cap Value Fund; Class A Shares	
JNL Series Trust: JNL Small Cap Index Fund; Class I Shares	
JNL Series Trust: JNL/DFA US Small Cap Fund; Class A Shares	
JNL Series Trust: JNL/Mellon Small Cap Index Fund; Class A Shares	
JNL Series Trust: JNL/RAFI Fundamental US Small Cap Fund; Class A Shares	
Lincoln Variable Insurance Products Trust: LVIP SSgA Small-Cap Index Fund; Standard Class Shares	
Lincoln Variable Insurance Products Trust: LVIP SSgA SMID Cap Managed Volatility Fund; Service Class Shares	
Northwestern Mutual Series Fund, Inc: Index 600 Stock Portfolio	
Northwestern Mutual Series Fund, Inc: Small Cap Value Portfolio	
Pacific Select Fund: Small-Cap Index Portfolio; Class I Shares	
Prudential Series Fund: PSF Small-Cap Stock Index Portfolio; Class I Shares	
Thrivent Series Fund, Inc: Thrivent Small Cap Index Portfolio	QTSCI
Thrivent Series Fund, Inc: Thrivent Small Cap Stock Portfolio	
VALIC Company I: Small Cap Index Fund	VCSLX
VALIC Company I: Small Cap Value Fund	VVSCX
Voya Variable Portfolios, Inc: Voya Index Plus MidCap Portfolio; Class I Shares	IPMIX

---

**Lipper VUF Small-Cap Growth Funds Index**

Advanced Series Trust: AST Small-Cap Equity Portfolio	
Alger Portfolios: Alger SmallCap Growth Portfolio; Class I-2 Shares	AASOX
Allspring Variable Trust: Allspring VT Small Cap Growth Fund; Class 2 Shares	
AuguStar Variable Insurance Products Fund Inc: AVIP BlackRock Advantage Small Cap Growth Portfolio	
Brighthouse Funds Trust I: Invesco Small Cap Growth Portfolio; Class A Shares	
Brighthouse Funds Trust II: Loomis Sayles Small Cap Growth Portfolio; Class A Shares	
Brighthouse Funds Trust II: Neuberger Berman Genesis Portfolio; Class A Shares	
Brighthouse Funds Trust II: T Rowe Price Small Cap Growth Portfolio; Class A Shares	
Columbia Funds Variable Insurance Trust: Columbia Variable Portfolio-Small Company Growth Fund; Class 1 Shares	
Columbia Funds Variable Series Trust II: Variable Portfolio - Partners Small Cap Growth Fund; Class 1 Shares	
EQ Advisors Trust: 1290 VT Micro Cap Portfolio; Class K Shares	
EQ Advisors Trust: EQ/AB Small Cap Growth Portfolio; Class IB Shares	
EQ Advisors Trust: EQ/Morgan Stanley Small Cap Growth Portfolio; Class K Shares	
Hartford Series Fund Inc: Hartford Small Cap Growth HLS Fund; Class IA Shares	HISCX
Hartford Series Fund, Inc: Hartford Small Company HLS Fund; Class IA Shares	HIASX
Ivy Variable Insurance Portfolios: Macquarie VIP Small Cap Growth Fund Series; Service Class Shares	
JNL Series Trust: JNL Multi-Manager Small Cap Growth Fund; Class A Shares	
JNL Series Trust: JNL/Invesco Small Cap Growth Fund; Class A Shares	
John Hancock Variable Insurance Trust: Small Cap Stock Trust; Series NAV Shares	JAGPX
Legg Mason Partners Variable Equity Trust: ClearBridge Variable Small Cap Growth Portfolio; Class I Shares	
MFS Variable Insurance Trust: MFS New Discovery Series; Service Class Shares	
New York Life Investments VP Funds Trust: NYLI VP Small Cap Growth Portfolio; Initial Class Shares	
Northwestern Mutual Series Fund, Inc: Small Cap Growth Stock Portfolio	
Pacific Select Fund: Small-Cap Growth Portfolio; Class I Shares	
Securian Funds Trust: SFT Macquarie Small Cap Growth Fund	
SunAmerica Series Trust: SA Invesco Growth Opportunities Portfolio; Class 3 Shares	
Transamerica Series Trust: Transamerica T Rowe Price Small Cap VP; Initial Class Shares	
VALIC Company I: Small Cap Growth Fund	VVSGX
Vanguard Variable Insurance Fund: Small Company Growth Portfolio; Investor Share Class	
Voya Variable Products Trust: Voya SmallCap Opportunities Portfolio; Class I Shares	IVSOX

**Index Name    Full Fund Name**

**Nasdaq Symbol**

**Lipper VUF Small-Cap Value Funds Index**

Columbia Funds Variable Insurance Trust: Columbia Variable Portfolio-Small Cap Value Fund; Class 1 Shares

DFA Investment Dimensions Group Inc: Dimensional VA US Targeted Value Portfolio

Franklin Templeton Variable Insurance Products Trust: Franklin Small Cap Value VIP Fund; Class 2 Shares

New Age Alpha Variable Funds Trust: NAA Small Cap Value Series

Pacific Select Fund: Small-Cap Equity Portfolio; Class P Shares

ProFunds: ProFund VP Small-Cap Value

Putnam Variable Trust: Putnam VT Small Cap Value Fund; Class IB Shares

Rydex Variable Trust: S&P MidCap 400 Pure Value Fund

SunAmerica Series Trust: SA Franklin Small Company Value Portfolio; Class 3 Shares

VALIC Company I: Small Cap Special Values Fund

VSSVX