

# Hypothetical Illustration

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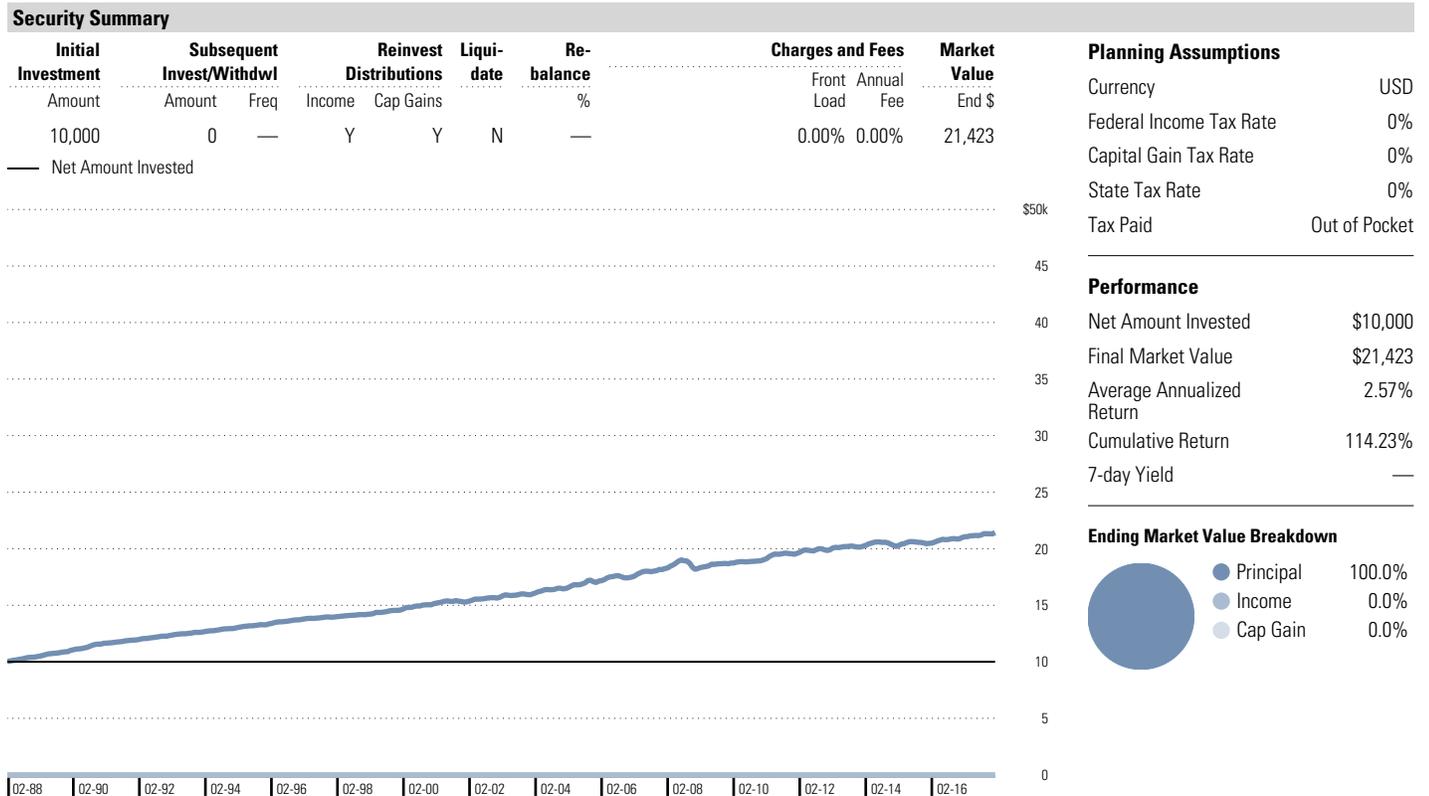
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# Hypothetical Illustration for US BLS CPI All Urban NSA 1982-1984 (USD)(IDX)

02-01-1988 to 01-31-2018



Investment Detail									
Period		Beginning Balance	New Investment	Distribution/Withdrawal	Total Reinvest	Charges & Fees	Taxes Due	Market Value	Total Return %
Totals		0	10,000	0	0	0	0	21,423	2.57
February-December	1988	0	10,000	0	0	0	0	10,415	4.15
January-December	1989	10,415	0	0	0	0	0	10,899	4.65
January-December	1990	10,899	0	0	0	0	0	11,564	6.11
January-December	1991	11,564	0	0	0	0	0	11,919	3.06
January-December	1992	11,919	0	0	0	0	0	12,264	2.90
January-December	1993	12,264	0	0	0	0	0	12,602	2.75
January-December	1994	12,602	0	0	0	0	0	12,939	2.67
January-December	1995	12,939	0	0	0	0	0	13,267	2.54
January-December	1996	13,267	0	0	0	0	0	13,708	3.32
January-December	1997	13,708	0	0	0	0	0	13,941	1.70
January-December	1998	13,941	0	0	0	0	0	14,166	1.61
January-December	1999	14,166	0	0	0	0	0	14,546	2.68
January-December	2000	14,546	0	0	0	0	0	15,039	3.39
January-December	2001	15,039	0	0	0	0	0	15,272	1.55
January-December	2002	15,272	0	0	0	0	0	15,635	2.38
January-December	2003	15,635	0	0	0	0	0	15,929	1.88
January-December	2004	15,929	0	0	0	0	0	16,448	3.26
January-December	2005	16,448	0	0	0	0	0	17,010	3.42
January-December	2006	17,010	0	0	0	0	0	17,442	2.54
January-December	2007	17,442	0	0	0	0	0	18,154	4.08

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**Hypothetical Illustration for US BLS CPI All Urban NSA 1982-1984 (USD)(IDX) Continued**

02-01-1988 to 01-31-2018

<b>Investment Detail</b>		<b>Beginning Balance</b>	<b>New Investment</b>	<b>Distribution/Withdrawal</b>	<b>Total Reinvest</b>	<b>Charges &amp; Fees</b>	<b>Taxes Due</b>	<b>Market Value</b>	<b>Total Return %</b>
Totals		0	10,000	0	0	0	0	21,423	2.57
January-December	2008	18,154	0	0	0	0	0	18,170	0.09
January-December	2009	18,170	0	0	0	0	0	18,665	2.72
January-December	2010	18,665	0	0	0	0	0	18,944	1.50
January-December	2011	18,944	0	0	0	0	0	19,505	2.96
January-December	2012	19,505	0	0	0	0	0	19,845	1.74
January-December	2013	19,845	0	0	0	0	0	20,143	1.50
January-December	2014	20,143	0	0	0	0	0	20,295	0.76
January-December	2015	20,295	0	0	0	0	0	20,443	0.73
January-December	2016	20,443	0	0	0	0	0	20,867	2.07
January-December	2017	20,867	0	0	0	0	0	21,307	2.11
January	2018	21,307	0	0	0	0	0	21,423	0.54

**Performance Disclosure**

The performance data quoted represents past performance and does not guarantee future results. The investment return and principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than their original cost. Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end, please call — or visit —. \*Returns are net of fees.

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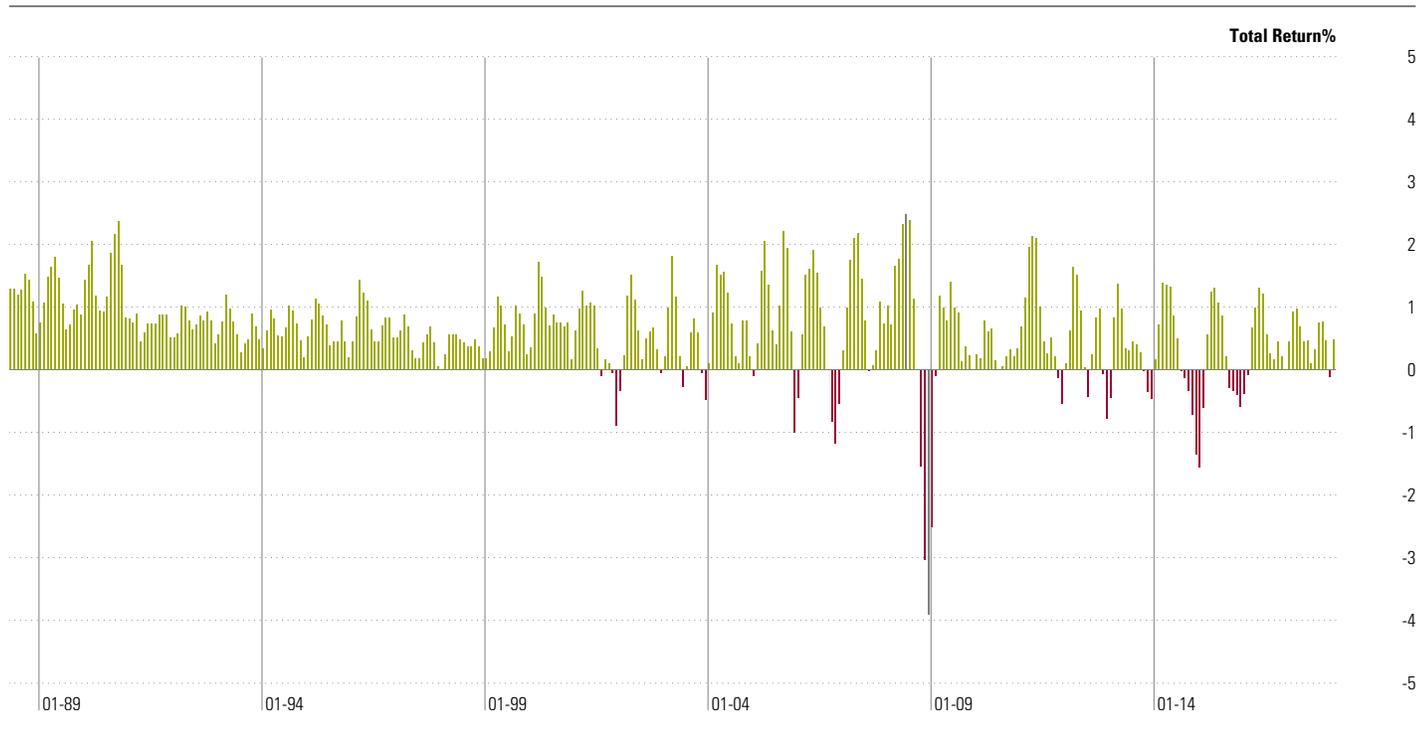


# US BLS CPI All Urban NSA 1982-1984 (USD)

3 Month Rolling Returns : 02-29-1988 to 01-31-2018

Currency of Security  
USD

Report Currency  
USD



	Time Period	Period's Cumulative Total Return %	Period's Annualized Total Return %
US BLS CPI All Urban NSA 1982-1984 (USD)	02-29-1988 to 01-31-2018	114.23	2.57
Highest Historical Return	03-31-2008 to 06-30-2008	2.48	—
Lowest Historical Return	09-30-2008 to 12-31-2008	-3.91	—

**Performance Disclosure**

The performance data quoted represents past performance and does not guarantee future results. The investment return and principal value of an investment will fluctuate; thus an investor's shares, when redeemed, may be worth more or less than their original cost. Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end, please visit <http://advisor.morningstar.com/familyinfo.asp>.

# US BLS CPI All Urban NSA 1982-1984 (USD)

Performance 01-31-2018					
Quarterly Returns	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total %
2016	0.68	1.21	0.17	0.00	2.07
2017	0.98	0.47	0.76	-0.12	2.11
2018	—	—	—	—	0.54
Trailing Returns					
	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Total Return	2.07	1.98	1.48	1.62	—

### Performance Disclosure

Indexes are unmanaged and cannot be invested in directly by investors.

The performance data quoted represents past performance and does not guarantee future results. The investment return and principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than their original cost.

Current performance may be lower or higher than return data quoted herein.

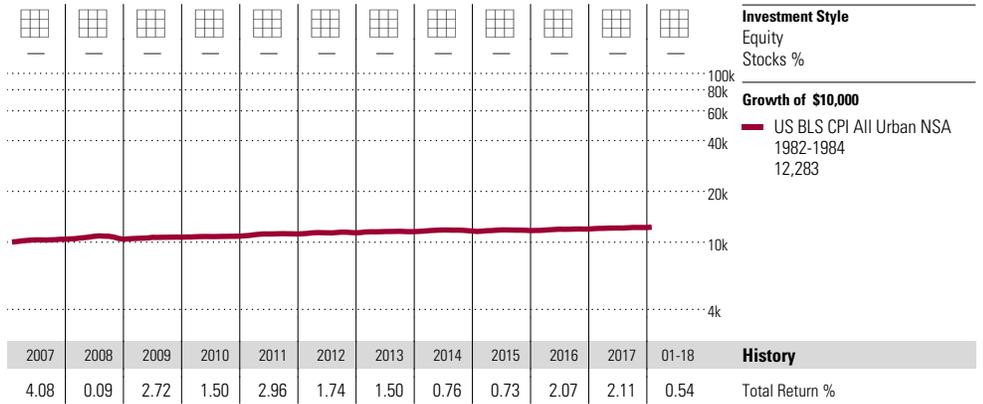
Risk and Return Profile			
	3 Yr	5 Yr	10 Yr
Standard Deviation	0.89	1.03	1.39
Mean	1.98	1.48	1.62
Sharpe Ratio	1.64	1.14	0.94

### Operations

Provider: Bureau of Labor Statistics  
 Incept: 01-29-1913  
 Type: IDX  
 Constituents Applied:  
 ETF used as portfolio proxy:

### Benchmark Disclosure

The index measures the performance of changes in the prices paid by urban consumers for a representative basket of goods and services since base period, which currently is 1982-84. It represents the buying habits of the residents of urban or metropolitan areas in United States. The index is base-period-quantity weighted.



### Portfolio Analysis

Asset Allocation %	Net %	Long %	Short %	Stocks %
Cash	0.00	0.00	0.00	—
US Stocks	0.00	0.00	0.00	—
Non-US Stocks	0.00	0.00	0.00	—
Bonds	0.00	0.00	0.00	—
Other/Not Clsfd	100.00	100.00	0.00	—
Total	100.00	100.00	0.00	—

Regional Exposure	Stock %
Americas	—
Greater Europe	—
Greater Asia	—

Equity Style	Portfolio Statistics	Port Avg
Value	P/E Ratio TTM	—
Blend	P/C Ratio TTM	—
Growth	P/B Ratio TTM	—
Large	Geo Avg Mkt Cap	—
Mid	\$mil	—
Small		

Fixed-Income Style	Port Avg
Ltd	Avg Eff Maturity
Mod	Avg Eff Duration
Ext	Avg Wtd Coupon
High	Avg Wtd Price
Mid	
Low	

Sector Weightings	Stocks %
<b>Cyclical</b>	—
Basic Materials	—
Consumer Cyclical	—
Financial Services	—
Real Estate	—
<b>Sensitive</b>	—
Communication Services	—
Energy	—
Industrials	—
Technology	—
<b>Defensive</b>	—
Consumer Defensive	—
Healthcare	—
Utilities	—

Credit Quality Breakdown	Bond %
AAA	—
AA	—
A	—
BBB	—
BB	—
B	—
Below B	—
NR	—

# Hypothetical Report Disclosure Statement

## General

This is an illustration of a simulated investment that assumes the portfolio holding(s) were purchased on the first day of the period indicated. Sales and tax charges, including those required in the event of transfers between assets, are taken into account at the rates shown and may be higher or lower than what an investor would have actually paid had the investments been purchased then or now. The performance data represents past performance and is not indicative of future results. Principal value and investment returns will fluctuate, and an investor's shares/units, when redeemed, may be worth more or less than the original investment.

The underlying holdings of the portfolio are not federally or FDIC-insured and are not deposits or obligations of, or guaranteed by, any financial institution. Investing in securities involves investment risks including possible loss of principal and fluctuation in value.

The investment returns do not reflect active trading and do not necessarily reflect the results that might have been achieved by active management of the account. The investment returns of other clients of the advisor may differ materially from the investment portrayed.

The information contained in this report is from the most recent information available to Morningstar as of the release date, and may or may not be an accurate reflection of the current composition of the securities included in the portfolio. There is no assurance that the weightings, composition and ratios will remain the same.

Before investing, an investor should consider whether the investor's or designated beneficiary's home state offers any state tax or other state benefits such as financial aid, scholarship funds, and protection from creditors that are only available for investments in such state's 529 qualified tuition program.

## Comparison of Fund Types

Funds, including closed-end funds, exchange-traded funds (ETFs), money market funds, open-end funds, and unit investment trusts (UITs), have many similarities, but also many important differences. In general, publicly-offered funds are investment companies registered with the Securities and Exchange Commission under the Investment Company Act of 1940, as amended. Funds pool money from their investors and manage it according to an investment strategy or objective, which can vary greatly from fund to fund. Funds have the ability to offer diversification and professional management, but also involve risk, including the loss of principal.

A closed-end fund is an investment company, which typically makes one public offering of a fixed number of shares. Thereafter, shares are traded on a secondary market. As a result, the secondary market price may be higher or lower than the closed-end fund's net asset value (NAV). If these shares trade at a price above their NAV, they are said to be trading at a premium. Conversely, if they are trading at a price below their NAV, they are said to be trading at a discount. A closed-end mutual fund's expense ratio is an annual fee charged to a shareholder. It includes operating expenses and management fees, but does not take into account any brokerage costs. Closed-end funds may also have 12b-1 fees. Income distributions and capital gains of the closed-end fund are subject to income tax, if held in a taxable account.

An ETF is an investment company that typically has an investment objective of striving to achieve a similar return as a particular market index. The ETF will

invest in either all or a representative sample of the securities included in the index it is seeking to imitate. Like closed-end funds, an ETF can be traded on a secondary market and thus have a market price that may be higher or lower than its net asset value. If these shares trade at a price above their NAV, they are said to be trading at a premium. Conversely, if they are trading at a price below their NAV, they are said to be trading at a discount. ETFs are not actively managed, so their value may be affected by a general decline in the U.S. market segments relating to their underlying indexes. Similarly, an imperfect match between an ETF's holdings and those of its underlying index may cause its performance to vary from that of its underlying index. The expense ratio of an ETF is an annual fee charged to a shareholder. It includes operating expenses and management fees, but does not take into account any brokerage costs. ETFs do not have 12b-1 fees or sales loads. Capital gains from funds held in a taxable account are subject to income tax. In many, but not all cases, ETFs are generally considered to be more tax-efficient when compared to similarly invested mutual funds.

Holding company depository receipts (HOLDRs) are similar to ETFs, but they focus on narrow industry groups. HOLDRs initially own 20 stocks, which are unmanaged, and can become more concentrated due to mergers, or the disparate performance of their holdings. HOLDRs can only be bought in 100-share increments. Investors may exchange shares of a HOLDR for its underlying stocks at any time.

A money-market fund is an investment company that invests in commercial paper, banker's acceptances, repurchase agreements, government securities, certificates of deposit and other highly liquid securities, and pays money market rates of interest. Money markets are not FDIC-insured, may lose money, and are not guaranteed by a bank or other financial institution.

An open-end fund is an investment company that issues shares on a continuous basis. Shares can be purchased from the open-end mutual fund itself, or through an intermediary, but cannot be traded on a secondary market, such as the New York Stock Exchange. Investors pay the open-end mutual fund's current net asset value plus any initial sales loads. Net asset value is calculated daily, at the close of business. Open-end mutual fund shares can be redeemed, or sold back to the fund or intermediary, at their current net asset value minus any deferred sales loads or redemption fees. The expense ratio for an open-end mutual fund is an annual fee charged to a shareholder. It includes operating expenses and management fees, but does not take into account any brokerage costs. Open-end funds may also have 12b-1 fees. Income distributions and capital gains of the open-end fund are subject to income tax, if held in a taxable account.

A unit investment trust (UIT) is an investment company organized under a trust agreement between a sponsor and trustee. UITs typically purchase a fixed portfolio of securities and then sell units in the trust to investors. The major difference between a UIT and a mutual fund is that a mutual fund is actively managed, while a UIT is not. On a periodic basis, UITs usually distribute to the unit holder their pro rata share of the trust's net investment income and net realized capital gains, if any. If the trust is one that invests only in tax-free securities, then the income from the trust is also tax-free. UITs generally make one public offering of a fixed number of units. However, in some cases, the sponsor will maintain a secondary market that allows existing unit holders to sell their units and for new investors to buy units. A one-time initial sales charge is deducted from an investment made into the trust. UIT investors may also pay creation and development fees, organization costs, and/or trustee and operation expenses. UIT units may be redeemed by the sponsor at their net asset value minus a deferred sales charge, and sold to other investors. UITs have set termination dates, at which point the underlying securities are sold and the sales proceeds are paid to the investor. Typically, a UIT investment is rolled over into successive trusts as part of a long-term strategy. A rollover fee

may be charged for the exercise of rollover purchases. There are tax consequences associated with rolling over an investment from one trust to the next.

### Comparison of Other Security Types

Variable annuities are tax-deferred investments structured to convert a sum of money into a series of payments over time. Variable annuity policies have limitations and are not viewed as short-term liquid investments. An insurance company's fulfillment of a commitment to pay a minimum death benefit, a schedule of payments, a fixed investment account guaranteed by the insurance company, or another form of guarantee depends on the claims-paying ability of the issuing insurance company. Any such guarantee does not affect or apply to the investment return or principal value of the separate account and its subaccount. The financial ratings quoted for an insurance company do not apply to the separate account and its subaccount. The insurance company offering a variable life contract will charge several fees to investors, including annual contract charges that compensate the insurance company for the cost of maintaining and administering the variable life contract, mortality and expense risk (M&E Risk) charges based on a percentage of a subaccount's assets to cover costs associated with mortality and expense risk, and administration fees that are based on a percentage of a subaccount's assets to cover the costs involved in offering and administering the subaccount. A variable life investor will also be charged a front-end load by the insurance company on their initial contribution, ongoing fees related to the management of the fund, and surrender charges if the investor makes a withdrawal prior to a specified time. If the variable annuity subaccount is invested in a money-market fund, the money market fund is not FDIC-insured, may lose money, and is not guaranteed by a bank or other financial institution.

Variable life insurance is a cash-value life insurance that has a variable cash value and/or death benefit depending on the investment performance of the subaccount into which premium payments are invested. Unlike traditional life insurance, variable life insurance has inherent risks associated with it, including market volatility, and is not viewed as a short-term liquid investment. For more information on a variable life product, including each subaccount, please read the current prospectus. Please note, the financial ratings noted on the report are quoted for an insurance company and do not apply to the separate account and its subaccount.

Fixed annuities have a predetermined rate of return an investor earns and a fixed income payout that is guaranteed by the issuing investment company, and may be immediate or deferred. Payouts may last for a specific period or for the life of the investor. Investments in a deferred fixed annuity grow tax-deferred with income tax incurred upon withdrawal, and do not depend on the stock market. However, the insurance company's guaranteed rate of return and payments depends on the claims-paying ability of the insurance company. Fixed annuities typically do not have cost-of-living payment adjustments. Fixed annuities often have surrender charges if the event you need to withdraw your investment early. Fixed annuities are regulated by state insurance commissioners.

Fixed indexed annuities, also called equity index annuities, are a combination of the characteristics of both fixed and variable annuities. Fixed indexed annuities offer a predetermined rate of return like a fixed annuity, but they also allow for participation in the stock market, like a variable annuity. Fixed indexed annuities are typically riskier and offer the potential for greater return than fixed annuities, but less so than a variable annuity. Investments in a fixed indexed annuity grow tax-deferred with income tax incurred upon withdrawal. The insurance company's guaranteed rate of return and ability to make payments depends on the claims-paying ability of the insurance company. While fixed indexed annuities may limit an investor's gains in an up market, they are also designed to help limit losses in a down market. Fixed indexed annuities can be

complicated and an investor in a fixed indexed annuity should carefully read the insurance company's offering material to understand how a specific annuity's return will be determined. Fixed indexed annuities often have surrender charges in the event you need to withdraw your investment early and are regulated by state insurance commissioners.

A stock is an ownership interest in a company. When an investor purchases a stock, they become a business owner, and the value of their ownership stake will rise and fall according to the underlying business. Stockholders are entitled to the profits, if any, generated by the company after everyone else – employees, vendors, lenders – get paid. Companies usually pay out their profits to investors in the form of dividends, or they reinvest the money back into the business. Stocks trade on exchanges throughout the day, through a brokerage firm who will charge a commission for the purchase or sale of shares. Income distributions and capital gains of the stock are subject to income tax upon their sale, if held in a taxable account.

A bond is a debt security. When an investor purchases a bond, the purchase amount is lent to a government, municipality, corporation or other entity known as an issuer. The issuer promises to pay a specified rate of interest during the life of the bond and repay the face value of the bond when it matures. U.S. Treasuries can be purchased directly from the Treasury or through a brokerage firm. Most other newly issued bonds are offered through an underwriter. Older bonds are traded throughout the day on the secondary market and can be purchased through a brokerage firm, who will charge transaction fees and commission for the purchase or sale. Price evaluations are provided by Interactive Data Corporation (IDC).

Preferred stock usually offers a fixed dividend payment, which is paid out before variable dividends that may be paid to investors in a company's common stock. Therefore, preferred stock is typically less risky in terms of principal loss, but there is also less potential for return when compared to a company's common stock. If a company fails, their obligations to preferred stockholders must be met before those of the company's common stock holders, but after bondholders are reimbursed.

A separate account is a portfolio of securities (such as stocks, bonds, and cash) that follows a specified investment strategy and is managed by an investment professional. The securities in the portfolio are directly owned by the separate account's owner. Separate accounts are unregistered investment vehicles; therefore they do not have the same performance and holding reporting responsibilities that registered securities have. Separate account performance data is reported to Morningstar from the investment manager as a composite of similarly managed portfolios. As such, investors in the same separate account may have slightly different portfolio holdings because each investor has customized account needs, tax considerations and security preferences. The method for calculating composite returns can vary. The composite performance for each separate account manager may differ from actual returns in specific client accounts during the same period for a number of reasons. Different separate account managers may use different methods in constructing or computing performance figures. Thus, performance and risk figures for different separate account managers may not be fully comparable to each other. Likewise, performance and risk information of certain separate account managers may include only composites of larger accounts, which may or may not have more holdings, different diversification, different trading patterns and different performance than smaller accounts with the same strategy. Finally, composite performance of the separate account offered by the money manager may or may not reflect the reinvestment of dividends and capital gains. Gross returns are collected on a monthly and quarterly basis for separate accounts and commingled pools. This information is collected directly from the asset management firm running the product(s). Morningstar calculates total returns, using the raw data (gross monthly and quarterly returns), collected from these

asset management firms. The performance data reported by the separate account managers will not represent actual performance net of management fees, brokerage commissions or other expenses. Management fees as well as other expenses a client may incur will reduce individual returns for that client. Because fees are deducted regularly, the compounding effect will increase the impact of the fee deduction on gross account performance by a greater percentage than that of the annual fee charged. For example, if an account is charged a 1% management fee per year and has gross performance of 12% during that same period, the compounding effect of the quarterly fee assessments will result in an actual return of approximately 10.9%. Clients should refer to the disclosure document of the separate account manager and their advisor for specific information regarding fees and expenses. The analysis in this report may be based, in part, on adjusted historical returns for periods prior to an insurance group separate account's (IGSA's) actual inception. When pre-inception data are presented in the report, the header at the top of the report will indicate this and the affected data elements will be displayed in italics. These calculated returns reflect the historical performance of the oldest share class of the underlying fund, adjusted to reflect the management fees of the current IGSA. While the inclusion of pre-inception data provides valuable insight into the probable long-term behavior of an IGSA based on the underlying fund's performance, investors should be aware that an adjusted historical return can only provide an approximation of that behavior. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the IGSA itself. Morningstar % Rank within Morningstar Category does not account for a separate account's sales charge (if applicable).

A collective investment trust (CIT) may also be called a commingled or collective fund. CITs are tax-exempt, pooled investment vehicles maintained by a bank or trust company exclusively for qualified plans, including 401(k)s, and certain types of government plans. CITs are unregistered investment vehicles subject to banking regulations of the Office of the Comptroller of the Currency (OCC), which means they are typically less expensive than other investment options due to lower marketing, overhead, and compliance-related costs. CITs are not available to the general public, but are managed only for specific retirement plans.

A 529 Portfolio is a specific portfolio of securities created from a 529 plan's available investments. In general, the data presented for a 529 Portfolio uses a weighted average of the underlying holdings in the portfolio. Most 529 plans are invested in open-end mutual funds; however, other investment types are possible such as stable value funds, certificates of deposit, and separate accounts.

Before investing, an investor should consider whether the investor's or designated beneficiary's home state offers any state tax or other state benefits such as financial aid, scholarship funds, and protection from creditors that are only available for investments in such state's 529 qualified tuition program.

Offshore funds are funds domiciled in a country outside the one the investor resides in. Many banks have offshore subsidiaries that are under the standards and regulations of the particular country, which can vary considerably. Companies may establish headquarters offshore because of lower tax rates. Offshore funds are not regulated by the SEC and may have tax implications.

Hedge funds are aggressively managed portfolios which make extensive use of unconventional investment tools such as derivatives as well as long and short positions. Managers of hedge-funds typically focus on specific areas of the market and/or trading strategies. Strategies may include the use of arbitrage, derivatives, leverage, and short selling, and may hold concentrated positions or private securities, which can make them riskier than other investment types. Hedge funds are typically pooled investment vehicles available to sophisticated

investors that meet high investing minimums. Many hedge funds are unregistered and are not subject to the same regulations as registered investment vehicles, such as mutual funds. Funds of hedge funds are pooled investment vehicles that invest in multiple unregistered hedge funds, and may be registered with the SEC. Registered funds of hedge funds typically have lower investment minimums than hedge funds, but they are usually not registered on an exchange and can be illiquid. Fund of hedge fund fees are generally higher than those of other pooled investments (like mutual funds) and may have tax consequences.

Cash is a short-term, highly liquid investment. Cash typically doesn't earn as much as other investments, such as stocks or bonds, but is less risky.

Indexes are unmanaged and not available for direct investment. Indexes are created to measure a specified area of the stock market using a representative portfolio of securities. If a security is not available in Morningstar's database, your financial professional may choose to show a representative index. Please note that indexes vary widely, and it is important to choose an index that has similar characteristics to the security it is being used to represent. In no way should the performance of an index be considered indicative or a guarantee of the future performance of an actual security, be considered indicative of the actual performance achieved by a security, or viewed as a substitute for the actual security in your portfolio. Actual results of a security may differ substantially from the historical performance shown for an index and may include an individual client incurring a loss. Past performance is no guarantee of future results.

Morningstar assigns each security in its database to a Morningstar Category using the underlying securities in the security's portfolio. If a security is not available in Morningstar's database, your financial professional may choose to show the security's category. Please note that a category will not be an exact match to your securities. In no way should the performance of a category be considered indicative or a guarantee of the future performance of an actual security, be considered indicative of the actual performance achieved by a security, or viewed as a substitute for the actual security in your portfolio. Actual results of a security may differ substantially from the historical performance shown for a category and may include an individual client incurring a loss. Past performance is no guarantee of future results.

### Pre-inception Returns

The analysis in this report may be based, in part, on adjusted historical returns for periods prior to the fund's actual inception. These calculated returns reflect the historical performance of the oldest share class of the fund, adjusted to reflect the fees and expenses of this share class. These fees and expenses are referenced in the report's Charges and Fees section.

### When pre-inception data is presented in the report, the header at the top of the report will indicate this.

While the inclusion of pre-inception data provides valuable insight into the probable long-term behavior of newer share classes of a fund, investors should be aware that an adjusted historical return can only provide an approximation of that behavior. For example, the fee structures of a retail share class will vary from that of an institutional share class, as retail shares tend to have higher operating expenses and sales charges. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.

The investment returns do not necessarily reflect the deduction of all investment advisory fees. Client investment returns may be reduced if additional fees are incurred.

Performance for closed-end and exchange-traded funds is calculated based on the fund's end of the day market prices as reported by the New York Stock Exchange. Separate account performance is based on the mean experience of an investor in the account.

This illustration may reflect the results of systematic investments and/or withdrawals. Systematic investment does not ensure a profit, nor does it protect the investor against a loss in a declining market. Also, systematic investing will not keep an investor from losing money if shares are sold when the market is down.

### Investment Summary Graph

The investment summary graph plots the approximate market value of the security or portfolio over the investing horizon. It may also include the total investment assumed in the illustration and/or a benchmark. Total investment includes dollar inflows and outflows, including outflows representing noted taxes and annual fees paid out of pocket. If a benchmark index is included on a graph, it assumes a similar pattern of investment/withdrawal as that of the security or portfolio. Taxes and transaction costs are also applied to the benchmark index. Note that direct investment in an index is not possible. Indexes are unmanaged portfolios representing different asset classes, with varying levels of associated risk. The benchmark index included in the graph may or may not represent an appropriate or accurate comparison with the security or portfolio illustrated.

### Standardized Returns

For ETFs, the standardized returns reflect performance, both at market price and NAV price, without adjusting for the effects of taxation or brokerage commissions. These returns are adjusted to reflect all ongoing ETF expenses and assume reinvestment of dividends and capital gains. If adjusted, the effects of taxation would reduce the performance quoted.

For HOLDERS, the standardized returns reflect performance at market price, without adjusting for the effects of taxation or brokerage commissions. These returns are adjusted to reflect all ongoing expenses and assume reinvestment of dividends and capital gains. If adjusted, the effects of taxation would reduce the performance quoted.

For money-market mutual funds, standardized return is total return adjusted for sales charges and reflects all ongoing fund expenses. Current 7-day yield more closely reflects the current earnings of the money-market fund than the total return quotation.

For mutual funds, standardized return is total return adjusted for sales charges and reflects all ongoing fund expenses. Preceding this disclosure statement, standardized returns for each portfolio holding are shown.

For VA subaccounts, standardized return is total return based on the inception date within the separate account and is adjusted to reflect recurring and non-recurring charges such as surrender fees, contract charges, maximum front-end load, maximum deferred load, maximum M&E risk charge, administration fees, and actual ongoing fund-level expenses.

For VL subaccounts, standardized return is total return based on the inception date within the separate account and is adjusted to reflect recurring and non-recurring charges such as surrender fees, contract charges, maximum front-end load, maximum deferred load, maximum M&E risk charge, administration fees, and actual ongoing fund-level expenses. For VLs, additional fees specific to a VL policy such as transfer fees and cost of insurance fees, which are based on specific characteristics of an individual, are not included. If VL fees were included in the return calculations, the performance would be significantly lower. An investor should contact a financial advisor and ask for a personalized

performance illustration, either hypothetical or historical, which reflects all applicable fees and charges including the cost of insurance. Please review the prospectus and SAL for more detailed information.

### Bond Returns

Price evaluations and fixed coupon amounts are provided by Interactive Data Corporation. The fixed coupon amount is assumed to be paid out semi-annually with the first payment beginning six months after the bond start date within the illustration.

### Definitions of Report Terms

*Annual Fee Paid:* Your advisor was able to specify whether annual fees, if any, should be assumed paid out of pocket or from selling shares of securities held in the illustration.

*Average Annualized Return:* Average annualized money-weighted return (internal rate of return). In illustrations with time periods less than one year, this figure is not annualized.

*Capital Gains (Individual Report):* Percentage of the total market value of the holding that is attributable to the reinvestment of capital gains distributions.

*Charges & Fees (Investment Detail):* The sum of fees charged to the investor during the period, including front or deferred loads, VA charges, and annual fees.

*Cumulative Return:* The total money-weighted return of the investment over the entire time period of the illustration.

*Distribution/Withdrawl:* The sum of distributions not reinvested, plus any cash withdrawals during the period.

*Income (Individual Report):* The percentage of the total market value of the holding that is attributable to the reinvestment of income or dividend distributions.

*Liquidate:* Indicates whether the advisor chose that the holding be liquidated on the end date.

*Median (Comparison Report):* The total money-weighted return (internal rate of return) of the median security in the illustration for the calendar year indicated.

*New investment:* Any new cash invested during the period.

*Principal (Individual Reports):* The percentage of the total market value of the holding that is attributable to new investment.

*Rebalance (Planning Assumptions):* Indicates whether rebalancing is used, and its frequency. "No" indicates no rebalancing. Options for rebalancing frequency are monthly, quarterly, semi-annually, and annually.

*Rebalance (Investment Assumptions):* Percentage of total asset allocation to be maintained in this holding through rebalancing.

*Security Return (Comparison Report):* The total money-weighted return (internal rate of return) for the holding in the calendar year indicated, taking into account cash flows, charges, and fees.

*Subsequent Invest/Withdrawl:* The amount, type, and frequency of subsequent investments or withdrawals from the holding. Withdrawals are represented by a negative number. Systematic investments and withdrawals may be made

monthly, quarterly, semi-annually, or annually. If "Custom", a custom schedule of investments or withdrawals was used.

**Taxes Due:** The total amount of taxes due from the investor, determined by applying specified tax rates to distributions and sale of shares during each calendar year. Taxes accrued during the calendar year are applied on April 15 of the following year, or on the illustration end date if it occurs before April 15.

**Taxes Paid:** Your advisor was able to specify whether taxes, if any, should be assumed paid out of pocket or from selling shares of securities held in the illustration.

**Net Amount Invested:** The total out-of-pocket expense for the investor. Includes new investment, annual fees paid to advisor, and taxes due. This figure is net of withdrawals, including liquidation.

**Total Reinvest:** The sum of distributions reinvested during the period.

**Total Return %:** The total money-weighted return (internal rate of return) on investments for the period.

## Rolling Return Report Disclosure Statement

The Rolling Return report is supplemental sales literature and therefore must be preceded or accompanied by the noted fund/subaccount's current prospectus, or equivalent, and a disclosure statement. In all cases, this disclosure statement should accompany the report.

Morningstar is not itself a FINRA-member firm. All data is based on the most recent information available to Morningstar.

Before investing, an investor should consider whether the investor's or designated beneficiary's home state offers any state tax or other state benefits such as financial aid, scholarship funds, and protection from creditors that are only available for investments in such state's 529 qualified tuition program.

### General Information on the Rolling Return Graph

This graph allows open-end mutual funds, money-market mutual funds, closed-end funds, exchange-traded funds, variable annuity/life subaccounts, stocks, separate accounts, indices, and Morningstar categories to be graphed over customized time periods. For exchange-traded funds and closed-end funds, market returns are used.

This graph is based on the investment assumptions for the hypothetical illustration, which is also included in this report. The same investments, withdrawals, reinvestment of dividends and gains, rebalancing, and fees, are applied. The graph reflects the discrete return of each period possible over the illustration time horizon. The return shown in this graph is money-weighted return (or internal rate of return), which is impacted by investor cash flows.

**The returns noted for a security reflect any sales charges that were applied in the illustration, but do not reflect impacts of taxation. If impacts of taxation were reflected, the returns would be lower than those indicated in the report.**

### Pre-inception Returns for Mutual Funds

The analysis in this report may be based, in part, on adjusted historical returns for periods prior to the fund's actual inception. These calculated returns reflect

the historical performance of the oldest share class of the fund, adjusted to reflect the fees and expenses of this share class.

### Pre-inception Returns for VA/VL Subaccounts (Investment options)

Pre-inception returns will be calculated for most subaccounts included in the report. These adjusted historical returns are based on the inception date of the oldest share class of the underlying fund. These returns will be adjusted to reflect the same fees and expenses of the subaccount.

**When pre-inception data is presented in the report, the header at the top of the report will indicate this.**

While the inclusion of pre-inception data provides valuable insight into the probable long-term behavior of newer share classes of a fund and/or of subaccounts, investors should be aware that an adjusted historical return can only provide an approximation of that behavior. For example, the fee structures of a retail share class will vary from that of an institutional share class, as retail shares tend to have higher operating expenses and sales charges. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund and/or subaccount itself.

### Items to Note Regarding Certain Underlying Securities

The underlying holdings of the portfolio are not federally or FDIC-insured and are not deposits or obligations of, or guaranteed by, any financial institution. Investing in securities involves investment risks including possible loss of principal and fluctuation in value.

A closed-end fund is an investment company, which typically makes one public offering of a fixed number of shares. Thereafter, shares are traded on a secondary market such as the New York Stock Exchange. As a result, the secondary market price may be higher or lower than the closed-end fund's net asset value (NAV). If these shares trade at a price above their NAV, they are said to be trading at a premium. Conversely, if they are trading at a price below their NAV, they are said to be trading at a discount.

An exchange-traded fund (ETF) is an investment company that typically has an investment objective to achieve a similar return as a particular market index. The ETF will invest in either all or a representative sample of the securities included in the index it is seeking to imitate. Like a closed-end fund, an ETF can be traded on a secondary market and thus have a market price that may be higher or lower than its net asset value. If these shares trade at a price above their NAV, they are said to be trading at a premium. Conversely, if they are trading at a price below their NAV, they are said to be trading at a discount.

Holding company depository receipts (HOLDRs) are similar to ETFs, but they focus on narrow industry groups. HOLDRs initially own 20 stocks, which are unmanaged, and can become more concentrated due to mergers, or the disparate performance of their holdings. HOLDRs can only be bought in 100-share increments. Investors may exchange shares of a HOLDR for its underlying stocks at any time.

A money-market fund is an investment company that invests in commercial paper, banker's acceptances, repurchase agreements, government securities, certificates of deposit and other highly liquid securities, and pays money market rates of interest.

A separate account is a professionally managed portfolio of individual securities that can be customized for individual investor preferences and managed to control taxable events. Assets are held in a segregated account instead of placing in them in a pool with those of other investors, as is the case with a mutual fund. Reporting is different because managers disclose each

holding and all transactions separately, rather than as an integrated portfolio. In appearance, separate accounts look like just a collection of individual stocks.

A variable annuity subaccount is a tax-deferred investment structured to convert a sum of money into a series of payments over time. Variable annuity policies have limitations and are not viewed as short-term liquid investments. An insurance company's fulfillment of a commitment to pay a minimum death benefit, a schedule of payments, a fixed investment account guaranteed by the insurance company, or another form of guarantee depends on the claims-paying ability of the issuing insurance company. Any such guarantee does not affect or apply to the investment return or principal value of the separate account and its subaccount. The financial ratings quoted for an insurance company do not apply to the separate account and its subaccount.

A variable life insurance policy is a cash-value life insurance policy that has a variable cash value and/or death benefit depending on the investment performance of the subaccount into which premium payments are invested. Unlike traditional life insurance, variable life insurance has inherent risks associated with it, including market volatility, and is not viewed as a short-term liquid investment. For more information on a particular variable life product, including each subaccount, please read the current prospectus or equivalent. Please note, the financial ratings noted on the report are quoted for an insurance company and do not apply to the separate account and its subaccount.

A bond is a debt security. When an investor purchases a bond, the purchase amount is lent to a government, municipality, corporation or other entity known as an issuer. The issuer promises to pay a specified rate of interest during the life of the bond and repay the face value of the bond when it matures. Individual bond issue data, price evaluations, and effective duration are provided by Interactive Data Corporation.

### Performance

The performance data given represents past performance and is not indicative of future results. Principal value and investment return will fluctuate, so that an investor's units, when redeemed, may be worth more or less than the original investment. Fund and subaccount portfolio statistics may change over time.

Open-end Mutual Funds: Total Return reflects performance without adjusting for sales charges or the effects of taxation, but is adjusted to reflect all actual ongoing fund expenses and assumes reinvestment of dividends and capital gains. If adjusted for sales charges and the effects of taxation, the performance quoted would be reduced.

Pre-inception returns will be calculated for the fund. These adjusted historical returns are based on the inception date of the oldest share class. These returns will be adjusted to reflect the same fees and expenses as referenced under the Pre-inception Return section above.

Standardized Total Return is reflected as of month- and quarter-end time periods. It depicts performance without adjusting for the effects of taxation, but is adjusted for sales charges, all ongoing fund expenses, and assumes reinvestment of dividends and capital gains. If adjusted for the effects of taxation, the performance quoted would be reduced. The sales charge used in the calculation was obtained from the fund's most recent prospectus available to Morningstar. Standardized returns never include pre-inception history.

Money-Market Mutual Funds: Total Return reflects performance without adjusting for sales charges or the effects of taxation, but is adjusted to reflect all actual ongoing fund expenses and assumes reinvestment of dividends and capital gains. If adjusted for sales charges and the effects of taxation, the performance quoted would be reduced. Current 7-day yield more closely

reflects the current earnings of the money market fund than the total return quotation.

Exchange Traded-Funds/Closed-End Funds/Stocks: Exchange-traded funds and closed-end funds trading on a secondary market may trade at, above, or below their net asset value (NAV). If these shares trade at a price above their NAV, they are said to be trading at a premium. Conversely, if they are trading at a price below their NAV, they are said to be trading at a discount. Total Return reflects performance without adjusting for sales charges, brokerage commissions or the effects of taxation and is based on Market Price. The total return is adjusted to reflect all actual ongoing ETF fund expenses and assumes reinvestment of dividends and capital gains. If adjusted, the effects of taxation and brokerage commissions would reduce the performance quoted. An exchange-traded or closed-end fund is not FDIC-insured, may lose value, and is not guaranteed by a bank or other financial institution.

All separate account performance data is reported as a "composite" of similarly managed portfolios. As such, investors in the same separate account may have slightly different portfolio holdings because each investor has customized account needs, tax considerations and security preferences. The method for calculating composite returns can vary. Gross returns are collected on a monthly and quarterly basis for separate accounts and commingled pools. This information is collected directly from the asset management firm running the product(s). Morningstar calculates total returns, using the raw data (gross monthly and quarterly returns), collected from these asset management firms.

Variable Annuity/Life Subaccounts: Total Return reflects the investment experience of the subaccount since the inception date of the underlying fund. The total returns assume reinvestment of dividends and capital gains and are adjusted to reflect fees and expenses such as M&E risk charges, administration fees, sales charges (including surrender charges), contract fees, and fund-level expenses such as management fees and operating fees. They are not adjusted to reflect the effects of taxation if redeemed early. Adjusting for the effects of taxation would reduce the performance quoted.

Pre-inception returns will be calculated for the subaccount. These adjusted historical returns are based on the inception date of the oldest share class of the underlying fund. These returns will be adjusted to reflect the same fees and expenses as referenced under the Total Return section above.

Both monthly and quarterly standardized returns for variable annuity/life subaccounts assume reinvestment of dividends and capital gains. They are adjusted to reflect expenses, including M&E risk charges, administration fees, fund-level expenses such as management fees and operating fees, and policy-level charges such as surrender, contract and sales charges. Standardized Returns are calculated in accordance with the rules outlined in SEC Rule 482, Forms N-3 and N-4, and reflect the investment experience from the inception date of the subaccount within the separate account.

**Please refer to the hypothetical illustration in the prospectus, which among other things, shows the effect that fees and charges have on performance. We urge investors to obtain a personalized illustration that reflects the costs of insurance protection.**

## Index Detail Report Disclosure Statement

The Morningstar Index Detail Report displays summary information reflecting the return and constituent holdings of an index. **Indexes are unmanaged and cannot be invested in directly by investors. This report is made available for informational purposes only.** Morningstar is not itself a

FINRA-member firm. Portfolio information is based on the most recent information available to Morningstar.

In some cases, Morningstar does not have constituent data for indexes but is able to proxy the constituents using an ETF that tracks the performance of the index. Where a proxy is applied for portfolio data, this will be disclosed in the Operations section of the report.

In all cases, performance and risk statistics presented reflect the index. Index performance is never proxied.

### Performance

The performance data given represents past performance and should not be considered indicative of future results. Principal value and investment return will fluctuate, so that an investor's shares, when redeemed, may be worth more or less than the original investment. Portfolio statistics change over time.

Total Return and Quarterly Return reflects performance without adjusting for the effects of taxation. If adjusted for the effects of taxation, the performance quoted would be reduced.

### Growth of \$10,000

This graph displays the theoretical growth of an investment of 10,000 in the index (in the base currency of the index). The total returns are not adjusted to reflect the effects of taxation, and assume reinvestment of dividends and capital gains. If adjusted, sales charges would reduce the performance quoted. The performance for an index does not reflect any initial or ongoing expenses.

### Risk Measures

Risk measures below are calculated for indexes with at least a three-year history.

Standard deviation is a statistical measure of the volatility of the average returns for the funds in the category.

Mean represents the annualized geometric return for the period shown.

The Sharpe ratio uses standard deviation and excess return to determine reward per unit of risk.

### Asset Allocation

The weighting of the portfolio in various asset classes, including "Other" is shown in the table. "Other" includes security types that are not neatly classified in the other asset classes, such as convertible bonds and preferred stocks.

In the table, allocation to the classes is shown for long positions, short positions, and net (long positions net of short) positions. These statistics summarize the focus of index.

Most indexes have fairly conventional constituent securities, such as long positions in stocks and bonds. In rare cases, other investment strategies or securities are applied, such as short positions or derivatives. This may be the case in this report, particularly when the portfolio statistics are proxied using an ETF portfolio. Some of these securities and strategies behave like conventional securities, while others have unique return and risk characteristics. Most portfolios take long positions in securities. Long positions involve buying the security outright and then selling it later, with the hope that the security price rises over time. In contrast, short positions are taken to benefit from anticipated price declines. In this type of transaction, the investor borrows the security from another investor, sells it and receives cash, and then is obligated to buy it back at some point in the future. If the price falls after the short sale, the investor will have sold high and can now buy low to close the

short position and lock in a profit. However, if the price of the security increases after the short sale, the investor will experience losses by buying it at a higher price than the sale price.

The strategy of selling securities short is prevalent in specialized portfolios, such as long-short, market-neutral, bear-market, and hedge funds. Most conventional portfolios do not typically short securities, although they may reserve the right to do so under special circumstances. Funds may also short derivatives, and this is sometimes more efficient than shorting individual securities. Short positions produce negative exposure to the security that is being shorted. This means that when the security rises in value, the short position will fall in value and vice versa. Morningstar's portfolio statistics will capture this negative exposure. For example, if a fund has many short stock positions, the percent of assets in stocks in the asset allocation breakdown may be negative. Funds must provide their broker with cash collateral for the short position, so funds that short often have a large cash position, sometimes even exceeding 100% cash.

Note that all other portfolio statistics presented in this report are based on the long holdings of the index only.

### Style Analysis

The Morningstar Style Box reveals an index's investment style as of the date noted on this report. For equity style box the vertical axis shows the market capitalization of the stocks among the index constituents and the horizontal axis shows investment style (value, blend, or growth).

For fixed-income holdings, the vertical axis shows the credit quality of the bonds included in the constituents and the horizontal axis shows interest rate sensitivity as measured by a bond's effective duration. No index providers covering fixed income supply constituent data to Morningstar. When fixed-income holding data is displayed in this report, an ETF proxy has been applied.

Morningstar seeks credit rating information on a periodic basis (e.g., quarterly). In compiling credit rating information Morningstar accepts credit ratings reported by fund companies that have been issued by all Nationally Recognized Statistical Rating Organizations (NRSROs). For a list of all NRSROs, please visit <http://www.sec.gov/divisions/marketreg/ratingagency.htm>. Additionally, Morningstar accepts foreign credit ratings from widely recognized or registered rating agencies. If two rating organizations/agencies have rated a security, fund companies are to report the lower rating; if three or more organizations/agencies have rated a security, fund companies are to report the median rating, and in cases where there are more than two organization/agency ratings and a median rating does not exist, fund companies are to use the lower of the two middle ratings.

PLEASE NOTE: Morningstar, Inc. is not itself a NRSRO nor does it issue a credit rating on the fund. A NRSRO or rating agency ratings can change from time-to-time.

For credit quality, Morningstar combines the credit rating information provided by the fund companies with an average default rate calculation to come up with a weighted-average credit quality. The weighted-average credit quality is currently a letter that roughly corresponds to the scale used by a leading NRSRO. Bond funds are assigned a style box placement of "low", "medium", or "high" based on their average credit quality. Funds with a low credit quality are those whose weighted-average credit quality is determined to be less than "BBB-"; medium are those less than "AA-", but greater or equal to "BBB-"; and high are those with a weighted-average credit quality of "AA-" or higher. When classifying a bond portfolio, Morningstar first maps the NRSRO credit ratings of the underlying holdings to their respective default rates (as determined by Morningstar's analysis of actual historical default rates). Morningstar then

averages these default rates to determine the average default rate for the entire bond fund. Finally, Morningstar maps this average default rate to its corresponding credit rating along a convex curve.

For interest-rate sensitivity, Morningstar obtains from fund companies the average effective duration. Generally, Morningstar classifies a fixed-income fund's interest-rate sensitivity based on the effective duration of the Morningstar Core Bond Index (MCBI), which is currently three years. The classification of Limited will be assigned to those funds whose average effective duration is between 25% to 75% of MCBI's average effective duration; funds whose average effective duration is between 75% to 125% of the MCBI will be classified as Moderate; and those that are at 125% or greater of the average effective duration of the MCBI will be classified as Extensive.

For municipal bond funds, Morningstar also obtains from fund companies the average effective duration. In these cases static breakpoints are utilized. These breakpoints are as follows: (i) Limited: 4.5 years or less; (ii) Moderate: more than 4.5 years but less than 7 years; and (iii) Extensive: more than 7 years. In addition, for non-US taxable and non-US domiciled fixed income funds static duration breakpoints are used: (i) Limited: less than or equal to 3.5 years; (ii) Moderate: greater than 3.5 and less than equal to 6 years; (iii) Extensive: greater than 6 years.

### Equity Portfolio Statistics

The referenced data elements below are a weighted average of the long equity constituents in the index (or if proxied using an ETF equivalent, the holdings of the ETF portfolio). The Price/Earnings ratio is a weighted average of the price/earnings ratios of the stocks in the portfolio. The P/E ratio of a stock is calculated by dividing the current price of the stock by its trailing 12-months' earnings per share. In computing the average, Morningstar weights each portfolio holding by the percentage of equity assets it represents.

The Price/Cash Flow ratio is a weighted average of the price/cash-flow ratios of the stocks in a portfolio. Price/cash-flow shows the ability of a business to generate cash and acts as a gauge of liquidity and solvency.

The Price/Book ratio is a weighted average of the price/book ratios of all the stocks in the portfolio. The P/B ratio of a company is calculated by dividing the market price of its stock by the company's per-share book value. Stocks with negative book values are excluded from this calculation.

The geometric average market capitalization of an equity portfolio offers a measure of the size of the companies included in index constituents.

### Fixed-Income Portfolio Statistics

The referenced data elements below are a weighted average of the long fixed income holdings in the portfolio. No index providers covering fixed income supply constituent data to Morningstar. When fixed-income holding data is displayed in this report, an ETF proxy has been applied.

Duration is a time measure of a bond's interest rate sensitivity. Average effective duration is a weighted average of the duration of the underlying fixed income securities within the portfolio.

Average effective maturity is a weighted average of all the maturities of the bonds in a portfolio, computed by weighting each maturity date by the market value of the security.

Average weighted coupon is generated from the fund's portfolio by weighting the coupon of each bond by its relative size in the portfolio. Coupons are fixed percentages paid out on a fixed-income security on an annual basis. Average weighted price is generated from the fund's portfolio by weighting the price of

each bond by its relative size in the portfolio. This number reveals if the fund favors bonds selling at prices above or below face value (premium or discount securities, respectively). A higher number indicates a bias toward premiums. This statistic is expressed as a percentage of par (face) value.

Credit quality breakdowns are shown for corporate-bond holdings and depict the quality of bonds in the underlying portfolio. The report shows the percentage of fixed-income securities that fall within each credit quality rating as assigned by a NRSRO. Bonds not rated by a NRSRO are included in the not rated (NR) category.

Turnover Ratio is a decent proxy for how frequently a manager trades his or her portfolio. The inverse of a fund's turnover ratio is the average holding period for a security in the fund. As turnover increases, a fund's brokerage costs typically rise as well.

### Operations

When constituents from the index are applied in the portfolio statistics displaying in the report, this is indicated in the Operations section of the report. If an ETF proxy is applied for portfolio statistics, the ETF used is displayed.

The inception date shown reflects the earliest date as of which Morningstar has return data for the category.

### Investment Risks

International/Emerging Market Equities: Investing in international securities involves special additional risks. These risks include, but are not limited to, currency risk, political risk, and risk associated with varying accounting standards. Investing in emerging markets may accentuate these risks.

Sector Strategies: Portfolios that invest exclusively in one sector or industry involve additional risks. The lack of industry diversification subjects the investor to increased industry-specific risks.

Non-Diversified Strategies: Portfolios that invest a significant percentage of assets in a single issuer involve additional risks, including share price fluctuations, because of the increased concentration of investments.

Small Cap Equities: Portfolios that invest in stocks of small companies involve additional risks. Smaller companies typically have a higher risk of failure, and are not as well established as larger blue-chip companies. Historically, smaller company stocks have experienced a greater degree of market volatility than the overall market average.

Mid Cap Equities: Portfolios that invest in companies with market capitalization below \$10 billion involve additional risks. The securities of these companies may be more volatile and less liquid than the securities of larger companies.

High-Yield Bonds: Portfolios that invest in lower-rated debt securities (commonly referred to as junk bonds) involve additional risks because of the lower credit quality of the securities in the portfolio. The investor should be aware of the possible higher level of volatility, and increased risk of default.

Tax-Free Municipal Bonds: The investor should note that the income from tax free municipal bonds may be subject to state and local taxation and the Alternative Minimum Tax.

Bonds: Bonds are subject to interest rate risk. As the prevailing level of bond interest rates rise, the value of bonds already held in a portfolio declines. Portfolios that hold bonds are subject to declines and increases in value due to general changes in interest rates.

**HOLDERS:** The investor should note that these are narrow, industry-focused products that, if the industry is hit by hard times, will lack diversification and possible loss of investment would be likely. These securities can trade at a discount to market price, ownership is of a fractional share interest, the underlying investments may not be representative of the particular industry, the HOLDER might be delisted from the AMEX if the number of underlying companies drops below nine, and the investor may experience trading halts.

**Hedge Funds:** The investor should note that hedge fund investing involves specialized risks that are dependent upon the type of strategies undertaken by the manager. This can include distressed or event-driven strategies, long/short strategies, using arbitrage (exploiting price inefficiencies), international investing, and use of leverage, options and/or derivatives. Although the goal of hedge fund managers may be to reduce volatility and produce positive absolute return under a variety of market conditions, hedge funds may involve a high degree of risk and are suitable only for investors of substantial financial means who could bear the entire loss of their investment.

**Bank Loan/Senior Debt:** Bank loans and senior loans are impacted by the risks associated with fixed income in general, including interest rate risk and default risk. They are often non-investment grade; therefore, the risk of default is high. These securities are also relatively illiquid. Managed products that invest in bank loans/senior debt are often highly leveraged, producing a high risk of return volatility.

**Exchange Traded Notes (ETNs):** ETNs are unsecured debt obligations. Any repayment of notes is subject to the issuer's ability to repay its obligations. ETNs do not typically pay interest.

**Leveraged ETFs:** Leveraged investments are designed to meet multiples of the return performance of the index they track and seek to meet their objectives on a daily basis (or other time period stated within the prospectus objective). The leverage/gearing ratio is the amount of excess return that a leveraged investment is designed to achieve in comparison to its index performance (i.e. 200%, 300%, -200%, or -300% or 2X, 3X, -2X, -3X). Compounding has the ability to affect the performance of the fund to be either greater or less than the index performance multiplied by the multiple stated within the funds objective over a stated time period.

**Short Positions:** When a short position moves in an unfavorable way, the losses are theoretically unlimited. The broker may demand more collateral and a manager might have to close out a short position at an inopportune time to limit further losses.

**Long-Short:** Due to the strategies used by long-short funds, which may include but are not limited to leverage, short selling, short-term trading, and investing in derivatives, these funds may have greater risk, volatility, and expenses than those focusing on traditional investment strategies.

**Liquidity Risk:** Closed-end fund, ETF, and HOLDER trading may be halted due to market conditions, impacting an investor's ability to sell a fund.

**Market Price Risk:** The market price of ETFs, HOLDERS, and closed-end funds traded on the secondary market is subject to the forces of supply and demand and thus independent of the NAV. This can result in the market price trading at a premium or discount to the NAV, which will affect an investor's value.

**Market Risk:** The market prices of ETFs and HOLDERS can fluctuate as a result of several factors, such as security-specific factors or general investor sentiment. Therefore, investors should be aware of the prospect of market fluctuations and the impact it may have on the market price.

**Target-Date Funds:** Target-date funds typically invest in other mutual funds and are designed for investors who are planning to retire during the target date year. The fund's target date is the approximate date when investors expect to begin withdrawing their money. A target-date fund's investment objective/strategy typically becomes more conservative over time, primarily by reducing its allocation to equity mutual funds and increasing its allocations in fixed-income mutual funds. An investor's principal value in a target-date fund is not guaranteed at any time, including at the fund's target date.

**High double- and triple-digit returns:** High double- and triple-digit returns were the result of extremely favorable market conditions, which may not continue to be the case. High returns for short time periods must not be a major factor when making investment decisions.

## Investment Risks

**International/Emerging Market Equities:** Investing in international securities involves special additional risks. These risks include, but are not limited to, currency risk, political risk, and risk associated with varying accounting standards. Investing in emerging markets may accentuate these risks.

**Sector Strategies:** Portfolios that invest exclusively in one sector or industry involve additional risks. The lack of industry diversification subjects the investor to increased industry-specific risks.

**Non-Diversified Strategies:** Portfolios that invest a significant percentage of assets in a single issuer involve additional risks, including share price fluctuations, because of the increased concentration of investments.

**Small Cap Equities:** Portfolios that invest in stocks of small companies involve additional risks. Smaller companies typically have a higher risk of failure, and are not as well established as larger blue-chip companies. Historically, smaller-company stocks have experienced a greater degree of market volatility than the overall market average.

**Mid Cap Equities:** Portfolios that invest in companies with market capitalization below \$10 billion involve additional risks. The securities of these companies may be more volatile and less liquid than the securities of larger companies.

**High-Yield Bonds:** Portfolios that invest in lower-rated debt securities (commonly referred to as junk bonds) involve additional risks because of the lower credit quality of the securities in the portfolio. The investor should be aware of the possible higher level of volatility, and increased risk of default.

**Tax-Free Municipal Bonds:** The investor should note that the income from tax-free municipal bond funds may be subject to state and local taxation and the Alternative Minimum Tax.

**Bonds:** Bonds are subject to interest rate risk. As the prevailing level of bond interest rates rise, the value of bonds already held in a portfolio declines. Portfolios that hold bonds are subject to declines and increases in value due to general changes in interest rates.

**HOLDERS:** The investor should note that these are narrow industry-focused products that, if the industry is hit by hard times, will lack diversification and possible loss of investment would be likely. These securities can trade at a discount to market price, ownership is of a fractional share interest, the underlying investments may not be representative of the particular industry, the HOLDER might be delisted from the AMEX if the number of underlying companies drops below nine, and the investor may experience trading halts.

**Hedge Funds:** The investor should note that hedge fund investing involves specialized risks that are dependent upon the type of strategies undertaken by the manager. This can include distressed or event-driven strategies, long/short strategies, using arbitrage (exploiting price inefficiencies), international investing, and use of leverage, options and/or derivatives. Although the goal of hedge fund managers may be to reduce volatility and produce positive absolute return under a variety of market conditions, hedge funds may involve a high degree of risk and are suitable only for investors of substantial financial means who could bear the entire loss of their investment.

**Bank Loan/Senior Debt:** Bank loans and senior loans are impacted by the risks associated with fixed income in general, including interest rate risk and default risk. They are often non-investment grade; therefore, the risk of default is high. These securities are also relatively illiquid. Managed products that invest in bank loans/senior debt are often highly leveraged, producing a high risk of return volatility.

**Exchange Traded Notes (ETNs):** ETNs are unsecured debt obligations. Any repayment of notes is subject to the issuer's ability to repay its obligations. ETNs do not typically pay interest.

**Leveraged ETFs:** Leveraged investments are designed to meet multiples of the return performance of the index they track and seek to meet their fund objectives on a daily basis (or other time period stated within the prospectus objective). The leverage/gearing ratio is the amount of excess return that a leveraged investment is designed to achieve in comparison to its index performance (i.e. 200%, 300%, -200%, or -300% or 2X, 3X, -2X, -3X). Compounding has the ability to affect the performance of the fund to be either greater or less than the index performance multiplied by the multiple stated within the funds objective over a stated time period.

**Short Positions:** When a short position moves in an unfavorable way, the losses are theoretically unlimited. The broker may demand more collateral and a manager might have to close out a short position at an inopportune time to limit further losses.

**Long-Short:** Due to the strategies used by long-short funds, which may include but are not limited to leverage, short selling, short-term trading, and investing in derivatives, these funds may have greater risk, volatility, and expenses than those focusing on traditional investment strategies.

**Liquidity Risk:** Closed-end fund, ETF, and HOLDR trading may be halted due to market conditions, impacting an investor's ability to sell a fund.

**Market Price Risk:** The market price of ETFs, HOLDRs, and closed-end funds traded on the secondary market is subject to the forces of supply and demand and thus independent of the NAV. This can result in the market price trading at a premium or discount to the NAV, which will affect an investor's value.

**Market Risk:** The market prices of ETFs and HOLDRs can fluctuate as a result of several factors, such as security-specific factors or general investor sentiment. Therefore, investors should be aware of the prospect of market fluctuations and the impact it may have on the market price.

**Target-Date Funds:** Target-date funds typically invest in other mutual funds and are designed for investors who are planning to retire during the target date year. The fund's target date is the approximate date when investors expect to begin withdrawing their money. A target-date fund's investment objective/strategy typically becomes more conservative over time, primarily by reducing its allocation to equity mutual funds and increasing its allocations in fixed-income mutual funds. An investor's principal value in a target-date fund is not guaranteed at any time, including at the fund's target date.

**High double- and triple-digit returns:** High double- and triple-digit returns were the result of extremely favorable market conditions, which may not continue to be the case. High returns for short time periods must not be a major factor when making investment decisions.

## Benchmark Disclosure

Custom Benchmark	Allocation %	Type
S&P 500 TR USD (USD)	100.00	IDX

### BBgBarc US Agg Bond TR USD

This index is composed of the BarCap Government/Credit Index, the Mortgage-Backed Securities Index, and the Asset-Backed Securities Index. The returns we publish for the index are total returns, which includes the daily reinvestment of dividends. The constituents displayed for this index are from the following proxy: iShares Core US Aggregate Bond ETF.

### MSCI EAFE NR USD

This Europe, Australasia, and Far East index is a market-capitalization-weighted index of 21 non-U.S., industrialized country indexes.

This disclosure applies to all MSCI indices: Certain information included herein is derived by Morningstar in part from MSCI's Index Constituents (the "Index Data"). However, MSCI has not reviewed any information contained herein and does not endorse or express any opinion such information or analysis. MSCI does not make any express or implied warranties, representations or guarantees concerning the Index Data or any information or data derived therefrom, and in no event will MSCI have any liability for any direct, indirect, special, punitive, consequential or any other damages (including lost profits) relating to any use of this information.

### S&P 500 TR USD

A market capitalization-weighted index composed of the 500 most widely held stocks whose assets and/or revenues are based in the US; it's often used as a proxy for the U.S. stock market. TR (Total Return) indexes include daily reinvestment of dividends. The constituents displayed for this index are from the following proxy: iShares Core S&P 500 ETF.

### US BLS CPI All Urban NSA 1982-1984

Description unavailable.

### USTREAS T-Bill Auction Ave 3 Mon

Three-month T-bills are government-backed, short-term investments considered to be risk-free and as good as cash because the maturity is only three months. Morningstar collects yields on the T-bill on a weekly basis from the Wall Street Journal.