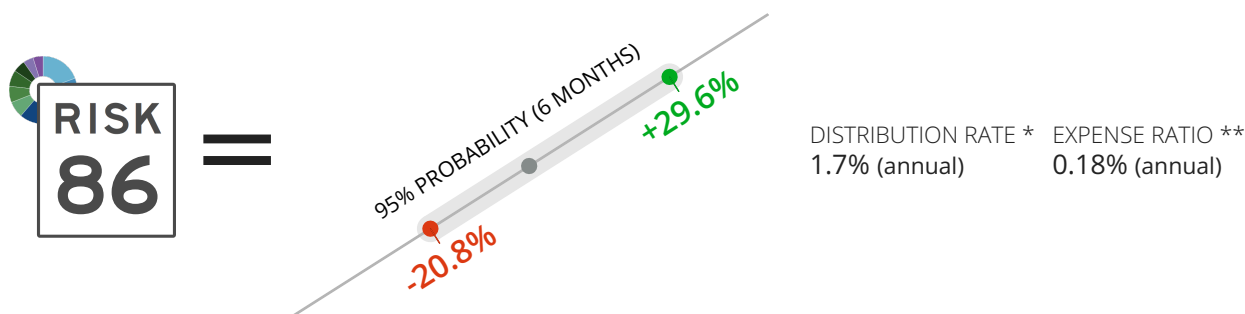


## Vanguard US Equity

This is your asset allocation, as captured on August 01, 2017.



RISK 86

### Asset Allocation

■ <b>VIVAX</b> • Vanguard Value Index Inv	21 %
■ <b>VFINX</b> • Vanguard 500 Index Inv	21 %
■ <b>VISVX</b> • Vanguard Small Cap Value Index Inv	21 %
■ <b>VMVIX</b> • Vanguard Mid-Cap Value Index Inv	14 %
■ <b>NAESX</b> • Vanguard Small Cap Index Inv	14 %
■ <b>VGSIX</b> • Vanguard REIT Index Inv	9 %
<b>Total</b>	<b>100%</b>

The Risk Score of 86 and the 95% Probability Range of -21% to +30% was calculated using a long-term average of 0% for the S&P 500, 0bps change in the Ten Year US Treasury Rate, and correlation and volatility data from 2008 to present. Riskalyze uses actual historical data to calculate the statistical probabilities shown. For securities calculated using Average Annual Return, the Average Return will be calculated using actual price history from June 2004-present or inception. We calculate the annualized return number as  $(\text{final price} / \text{initial price})^{1 / \text{number of years}} - 1$ . Riskalyze does not provide investment analysis on investments with less than 6 months of historical performance. In instances where an investment's inception is more recent than January 1, 2008 and greater than 6 months Riskalyze will use correlation statistics from the investments actual trading history to extrapolate missing volatility data. In most cases the extrapolation calculation increases the risk presented in the investment analysis as a means of protecting the investor. Investments with an inception more recent than January 1, 2008 are highlighted with an information icon ⓘ. The Six Month 95% Probability Range is calculated from the standard deviation of the portfolio (via covariance matrix), and represents a

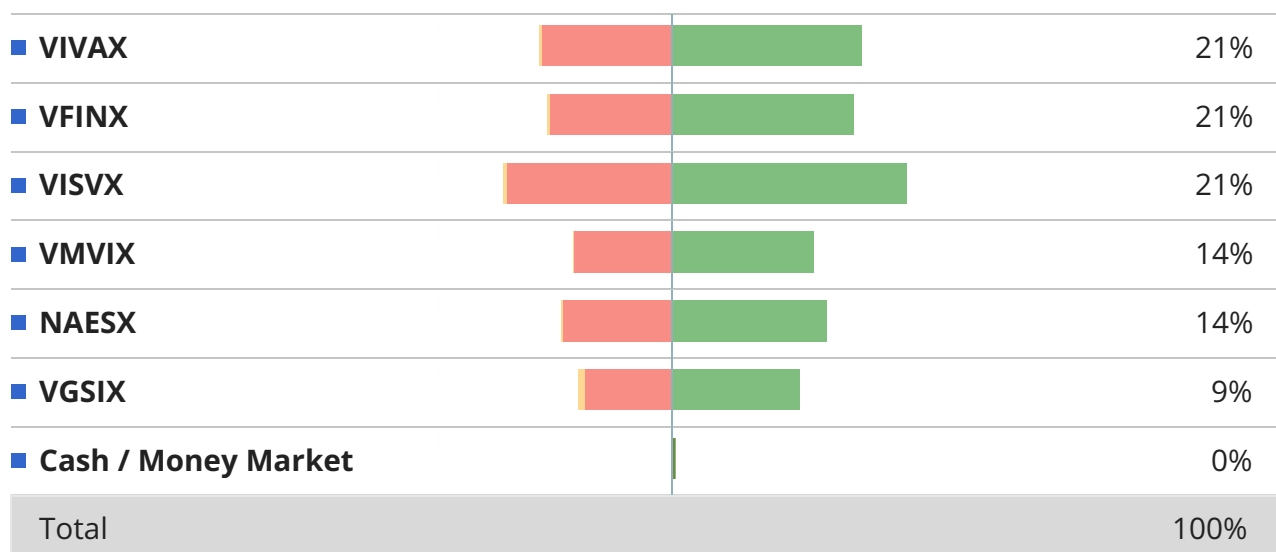
hypothetical statistical probability, but there is no guarantee any investments would perform within the range. There is a 5% probability of greater losses. Riskalyze does not use any Monte Carlo or any other type of simulations. The underlying data is updated as of the previous day's market close price, and the results may vary with each use and over time. The investments considered were determined by the financial representative. IMPORTANT: The projections or other information generated by Riskalyze regarding the likelihood of various investment outcomes are hypothetical in nature, do not reflect actual investment results and are not guarantees of future results. These figures may exclude commissions, sales charges or fees which, if included, would have had a negative effect on the annual returns.

\* The distribution rate is derived by summing the trailing 12-months' distributions (dividends, distributions from borrowing, return of capital, etc) and dividing the sum by the last month's ending NAV. It does not include capital gains distributed over the same period.

\*\* The percentage of fund assets used to pay for operating expenses and management fees, including 12b-1 fees, administrative fees, and all other asset-based costs incurred annually by the underlying funds, except brokerage costs.

# Vanguard US Equity

## Risk / Reward Heatmap



The Risk Score of 86 and the 95% Probability Range of -21% to +30% was calculated using a long-term average of 0% for the S&P 500, 0bps change in the Ten Year US Treasury Rate, and correlation and volatility data from 2008 to present. Riskalyze uses actual historical data to calculate the statistical probabilities shown. For securities calculated using Average Annual Return, the Average Return will be calculated using actual price history from June 2004-present or inception. We calculate the annualized return number as  $(\text{final price} / \text{initial price})^{(1 / \text{number of years})} - 1$ . Riskalyze does not provide investment analysis on investments with less than 6 months of historical performance. In instances where an investment's inception is more recent than January 1, 2008 and greater than 6 months Riskalyze will use correlation statistics from the investments actual trading history to extrapolate missing volatility data. In most cases the extrapolation calculation increases the risk presented in the investment analysis as a means of protecting the investor. Investments with an inception more recent than January 1, 2008 are highlighted with an information icon ⓘ. The Six Month 95% Probability Range is calculated from the standard deviation of the portfolio (via covariance matrix), and represents a hypothetical statistical probability, but there is no guarantee any investments would perform within the range. There is a 5% probability of greater losses. Riskalyze does not use any Monte Carlo or any other type of simulations. The underlying data is updated as of the previous day's market close price, and the results may vary with each use and over time. The investments considered were determined by the financial representative. IMPORTANT: The projections or other information generated by Riskalyze regarding the likelihood of various investment outcomes are hypothetical in nature, do not reflect actual investment results and are not guarantees of future results. These figures may exclude commissions, sales charges or fees which, if included, would have had a negative effect on the annual returns.

\* The distribution rate is derived by summing the trailing 12-months' distributions (dividends, distributions from borrowing, return of capital, etc) and dividing the sum by the last month's ending NAV. It does not include capital gains distributed over the same period.







\*\* The percentage of fund assets used to pay for operating expenses and management fees, including 12b-1 fees, administrative fees, and all other asset-based costs incurred annually by the underlying funds, except brokerage costs. The Risk/Reward Heatmap visually expresses the probable risk (red bar), probable return (green bar) and the amount of risk that is likely (probable) to be diversified out by inverse correlations (gold bar) given the data model selected. The green bar visually expresses the amount of probable return each investment contributes to the portfolio; dollar amount weighted. The red bar visually expresses the amount of probable downside risk each investment contributes to the portfolio; dollar amount weighted. The gold bar visually expresses the amount of probable downside risk which is likely offset by diversification effects generated by other investments in the portfolio. The Risk Reward

Heatmap is a visual representation of the investment analysis which includes historical return, volatility and correlation statistics calculated using a long-term average of +0% for the S&P 500, 0bps change in the Ten Year US Treasury Rate, and correlation and volatility data from 2008 to present. The Six Month 95% Probability Range is calculated from the standard deviation of the portfolio (via covariance matrix), and represents a hypothetical statistical probability, but there is no guarantee any investments would perform within the range. There is a 5% probability of greater losses. The underlying data is updated as of the previous day's market close price, and the results may vary with each use and over time. The investments considered were determined by the financial representative.

**IMPORTANT:** The projections or other information generated by Riskalyze regarding the likelihood of various investment outcomes are hypothetical in nature, do not reflect actual investment results and are not guarantees of future results. These figures may exclude commissions, sales charges or fees which, if included, would have had a negative effect on the annual returns.

# Vanguard US Equity

## Annual Dividend

■ VIVAX	1.79%		21%
■ VFINX	1.36%		21%
■ VISVX	1.49%		21%
■ VMVIX	1.86%		14%
■ NAESX	1.2%		14%
■ VGSIX	3.32%		9%
■ Cash / Money Market			0%
Total			100%

The Risk Score of 86 and the 95% Probability Range of -21% to +30% was calculated using a long-term average of 0% for the S&P 500, 0bps change in the Ten Year US Treasury Rate, and correlation and volatility data from 2008 to present. Riskalyze uses actual historical data to calculate the statistical probabilities shown. For securities calculated using Average Annual Return, the Average Return will be calculated using actual price history from June 2004-present or inception. We calculate the annualized return number as  $(\text{final price} / \text{initial price})^{(1 / \text{number of years})} - 1$ . Riskalyze does not provide investment analysis on investments with less than 6 months of historical performance. In instances where an investment's inception is more recent than January 1, 2008 and greater than 6 months Riskalyze will use correlation statistics from the investments actual trading history to extrapolate missing volatility data. In most cases the extrapolation calculation increases the risk presented in the investment analysis as a means of protecting the investor. Investments with an inception more recent than January 1, 2008 are highlighted with an information icon ⓘ. The Six Month 95% Probability Range is calculated from the standard deviation of the portfolio (via covariance matrix), and represents a hypothetical statistical probability, but there is no guarantee any investments would perform within the range. There is a 5% probability of greater losses. Riskalyze does not use any Monte Carlo or any other type of simulations. The underlying data is updated as of the previous day's market close price, and the results may vary with each use and over time. The investments considered were determined by the financial representative. IMPORTANT: The projections or other information generated by Riskalyze regarding the likelihood of various investment outcomes are hypothetical in nature, do not reflect actual investment results and are not guarantees of future results. These figures may exclude commissions, sales charges or fees which, if included, would have had a negative effect on the annual returns.

\* The distribution rate is derived by summing the trailing 12-months' distributions (dividends, distributions from borrowing, return of capital, etc) and dividing the sum by the last month's ending NAV. It does not include capital gains distributed over the same period.

\*\* The percentage of fund assets used to pay for operating expenses and management fees, including 12b-1 fees, administrative fees, and all other asset-based costs incurred annually by the underlying funds, except brokerage costs.

# Vanguard US Equity

## Expense Ratio

■ VIVAX	0.18%	21%
■ VFINX	0.14%	21%
■ VISVX	0.19%	21%
■ VMVIX	0.19%	14%
■ NAESX	0.18%	14%
■ VGSIX	0.26%	9%
■ Cash / Money Market		0%
Total		100%

The Risk Score of 86 and the 95% Probability Range of -21% to +30% was calculated using a long-term average of 0% for the S&P 500, 0bps change in the Ten Year US Treasury Rate, and correlation and volatility data from 2008 to present. Riskalyze uses actual historical data to calculate the statistical probabilities shown. For securities calculated using Average Annual Return, the Average Return will be calculated using actual price history from June 2004-present or inception. We calculate the annualized return number as  $(\text{final price} / \text{initial price})^{(1 / \text{number of years})} - 1$ . Riskalyze does not provide investment analysis on investments with less than 6 months of historical performance. In instances where an investment's inception is more recent than January 1, 2008 and greater than 6 months Riskalyze will use correlation statistics from the investments actual trading history to extrapolate missing volatility data. In most cases the extrapolation calculation increases the risk presented in the investment analysis as a means of protecting the investor. Investments with an inception more recent than January 1, 2008 are highlighted with an information icon ⓘ. The Six Month 95% Probability Range is calculated from the standard deviation of the portfolio (via covariance matrix), and represents a hypothetical statistical probability, but there is no guarantee any investments would perform within the range. There is a 5% probability of greater losses. Riskalyze does not use any Monte Carlo or any other type of simulations. The underlying data is updated as of the previous day's market close price, and the results may vary with each use and over time. The investments considered were determined by the financial representative. IMPORTANT: The projections or other information generated by Riskalyze regarding the likelihood of various investment outcomes are hypothetical in nature, do not reflect actual investment results and are not guarantees of future results. These figures may exclude commissions, sales charges or fees which, if included, would have had a negative effect on the annual returns.

\* The distribution rate is derived by summing the trailing 12-months' distributions (dividends, distributions from borrowing, return of capital, etc) and dividing the sum by the last month's ending NAV. It does not include capital gains distributed over the same period.

\*\* The percentage of fund assets used to pay for operating expenses and management fees, including 12b-1 fees, administrative fees, and all other asset-based costs incurred annually by the underlying funds, except brokerage costs.

# Vanguard US Equity

## Stress Tests

If a 2013-like Bull Market were to happen again...

RISK  
78

+32.0%

S&P 500 INDEX  
JAN 1, 2013 - DEC 31, 2013

RISK  
86

+35.7%

THIS PORTFOLIO'S  
ESTIMATED PERFORMANCE

If a 2008-like Bear Market were to happen again...

RISK  
78

-38.0%

S&P 500 INDEX  
JAN 1, 2008 - DEC 31, 2008

RISK  
86

-45.1%

THIS PORTFOLIO'S  
ESTIMATED PERFORMANCE

If the Financial Crisis were to happen again...

RISK  
78

-53.0%

S&P 500 INDEX  
OCT 15, 2007 - MAR 2, 2009

RISK  
86

-62.5%

THIS PORTFOLIO'S  
ESTIMATED PERFORMANCE

If a 134bps Interest Rate Spike were to happen again...

RISK  
29

-5.5%

AGGREGATE BOND INDEX  
MAY 1, 2013 - SEP 5, 2013

RISK  
86

+3.2%

THIS PORTFOLIO'S  
ESTIMATED PERFORMANCE

These calculations are designed to be informational and educational only and do not constitute investment advice. Investors should review their investment strategy periodically as financial circumstances change. The stress tests provided are a rough approximation of future financial performance should markets experience conditions similar to those shown. It is highly unlikely that such historical events will repeat themselves. The results presented by this stress test are hypothetical and may not reflect the actual growth of actual investments. Riskalyze and its affiliates are not responsible for the consequences of any decisions or actions taken in reliance upon or as a result of the information provided.

**IMPORTANT:** The projections or other information generated by Riskalyze regarding the likelihood of various investment outcomes are hypothetical in nature, do not reflect actual investment results and are not guarantees of future results. These figures may exclude commissions, sales charges or fees which, if included, would have had a negative effect on the annual returns.

**NOTE:** These calculations do not report what happened to this portfolio during the noted market environment. The "this portfolio's estimated performance" uses actual volatility and correlation statistics from Jan 1 2008 through present in conjunction with the noted rate of return (or loss) for the index shown to present an estimated performance should another environment like those presented occur again. For example, the "2013-Like Bull Market" scenario uses the portfolio's actual volatility (as measured by standard deviation) and correlation statistics (using a correlation matrix) from January 1st 2008 through present while assuming the same return realized by the S & P 500 index in 2013 of 32%.

## ETFs and Mutual Funds Referenced in this Report

- Performance quoted represents past performance and past performance does not guarantee future results. Performance shown is not indicative of future performance.
- The investment return and principal value of an investment will fluctuate; that an investor's shares, when redeemed, may be worth more or less than their original cost; and that current performance may be lower or higher than the performance data quoted.
- ETF Performance is based on the market price defined as the last closing price for each time of the one-, five-, ten-year periods or life of the ETF if the ETF has not existed for at least 10 years.
- Annualized performance is net of gross expenses but excludes commissions, sales charges or fees which, if included, could have had a negative effect on the annual returns. Sales commissions on "A Share" mutual funds could be as high as 5.75%. "C and B Share" mutual funds may be subject to surrender fees. The following sales load(s) or other non-recurring fees apply to investments shown: N/A.

### AVERAGE ANNUAL TOTAL RETURN AS OF June 30, 2017\*\*

FUND	1-YEAR %	5-YEAR %	10-YEAR %	GROSS EXPENSE RATIO %	TOTAL RETURN SINCE INCEPTION %
NAESX - VANGUARD SMALL CAP INDEX INV	19	13.98	7.69	0.18	10.66
VFINX - VANGUARD 500 INDEX INV	17.74	14.46	7.06	0.14	10.97
VGSIX - VANGUARD REIT INDEX INV	-2.05	9.13	6.05	0.26	10.51
VISVX - VANGUARD SMALL CAP VALUE INDEX INV	19	14.85	7.35	0.19	8.7
VIVAX - VANGUARD VALUE INDEX INV	16.36	14.22	5.69	0.18	9.47
VMVIX - VANGUARD MID-CAP VALUE INDEX INV	17.83	15.52	7.44	0.19	8.74

The average annualized performance information presented is current to the most recent month ended seven business days prior to the date of use.



## ETFs and Mutual Funds Referenced in this Report (cont'd)

AVERAGE ANNUAL TOTAL RETURN AS OF MOST RECENT CALENDAR QUARTER END June 30, 2017 \*\*

FUND	1-YEAR %	5-YEAR %	10-YEAR %	GROSS EXPENSE RATIO %	TOTAL RETURN SINCE INCEPTION %
NAESX - VANGUARD SMALL CAP INDEX INV	19	13.98	7.69	0.18	10.66
VFINX - VANGUARD 500 INDEX INV	17.74	14.46	7.06	0.14	10.97
VGSIX - VANGUARD REIT INDEX INV	-2.05	9.13	6.05	0.26	10.51
VISVX - VANGUARD SMALL CAP VALUE INDEX INV	19	14.85	7.35	0.19	8.7
VIVAX - VANGUARD VALUE INDEX INV	16.36	14.22	5.69	0.18	9.47
VMVIX - VANGUARD MID-CAP VALUE INDEX INV	17.83	15.52	7.44	0.19	8.74

The average annualized performance information presented is current to the most recent calendar quarter shown.

\*\*Average Annual Total Return is calculated by finding the average annual compounded rates of return over the 1-, 5-, and 10-year periods that would equate the initial amount invested to the ending redeemable value, according to the following formula:  $P(1 + T)^n = ERV$  Where: P = a hypothetical initial payment of \$1,000. T = average annual total return. n = number of years. ERV = ending redeemable value of a hypothetical \$1,000 payment made at the beginning of the 1-, 5-, or 10-year periods at the end of the 1-, 5-, or 10-year periods.

# Disclosure Statement

---

This report should not be relied on as a substitute for official account statements.

**The performance data quoted represents past performance. Past performance does not guarantee future results. Investment return and principal value will fluctuate so that an investor's shares, when redeemed, may be worth more or less than their original cost. Current performance may be lower or higher than the performance information quoted. The performance quoted reflects the reinvestment of dividends and capital gains, is net of expenses and does not reflect the maximum sales charge of 5.75%. Such a fee, if taken into consideration, will reduce the performance quoted above.**

**Investors should consider the investment objectives, risks, charges and expenses of the investment company carefully before investing. The prospectus and, if available, the summary prospectus contain this and other important information about the investment company. Request a prospectus from the offering institution or your financial representative. Read carefully before investing.**

Investments in this report are subject to market risk, including the possible loss of principal. It should be assumed that investments listed in this report are not FDIC insured. The value of the portfolio will fluctuate with the value of the underlying securities. Investors should consider an investment's investment objective, risks, charges, and expenses carefully before investing. In the case of mutual funds and ETFs (Exchange Traded Funds) a prospectus is available which contains this and other important information and should be read carefully before investing. Diversification does not ensure a profit and may not protect against loss in declining markets.

In addition to the normal risks associated with investing, Investments in smaller companies typically exhibit higher volatility as do investments that do not have significant volume; international investments may involve risk of capital loss from unfavorable fluctuation in currency values, from differences in generally accepted accounting principles or from economic or political instability in other nations; emerging markets involve heightened risks related to the same factors, as well as increased volatility and lower trading volume; bonds and bond funds will decrease in value as interest rates rise and are subject to credit risk, which refers to the possibility that the debt issuers may not be able to make principal and interest payments or may have their debt downgraded by ratings agencies.

Alternative securities (e.g. partnerships, limited liability companies, real estate investment trusts, hedge funds, and managed futures which are not listed on national exchanges) are generally illiquid; no formal trading market exists for these securities; and their values will be different than the purchase price or values shown on this report. Therefore, the estimated values shown herein may not necessarily be realized upon sale of the securities. Prices shown should only be used as a general guide to portfolio value.

An investment in "money market" is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. "Money market" funds seek to preserve the value of your investment at \$1.00 per share, but, it is possible to lose money by investing in "money market."

The investment analysis may include securities that are not publicly traded on national exchanges. Riskalyze reviews each alternative's track record, share price on the secondary market, fees, liquidity, and dividend history to assign each alternative's return and volatility statistics. In some cases secondary market prices can be sufficient to calculate volatility statistics. In most cases the return and volatility statistics must be calculated using a proprietary methodology that effectively penalizes fees and illiquidity while taking into account distributions (dividend) characteristics. Fees offset the expected return for the alternative. Return and volatility statistics are penalized for illiquidity. Alternatives with stable or increasing dividends show less volatility while alternatives with decreasing, unstable or discontinued distributions (due to failed strategy) show, relatively, higher volatility.

This portfolio may contain investments requiring the delivery of a prospectus. See fund prospectus for details.

Mutual funds may contain sales charges, expenses, management fees, and breakpoint discounts (quantity discounts); which vary from mutual fund to mutual fund. Therefore, you should discuss these issues with your financial

representative and review each mutual fund's prospectus and statement of additional information to get the specific information regarding the charges and breakpoint discounts associated with a particular mutual fund. Please see the mutual fund prospectus and statement of additional information for details about sales charges, expenses, management fees, discount programs (rights of accumulation, letter of intent, breakpoint discounts, etc). A mutual fund's total expense ratio is shown as provided by a third party vendor and may or may not contain fee waivers or expense reimbursements that may be in effect for the fund. Please refer to the fee table in the fund's prospectus.

ETFs trade like a stock, and ETFs may trade for less than their net asset value. See prospectus for details.

For variable annuities, additional expenses will be taken into account, including M&E risk charges, fund-level expenses such as management fees and operating fees, contract-level administration fees, and charges such as surrender, contract, and sales charges.

The 6 month probability range is derived by illustrating a VaR with 1.64 sigmas move in the underlying portfolio using the given data model. Standard Deviation is a historical measure of the variability of returns. If a portfolio has a high standard deviation, its returns have been volatile; a low standard deviation indicated returns have been less volatile. It is a mathematical probability; not a guarantee of future results. The cash balance shown may vary from actual cash available.

The cash value shown may represent certificates of deposit before early withdrawal penalties if so deemed by the financial representative. Portfolio value and position values are likely as of the day before the date listed on this report. Allocation percentages and/or dollar amounts may be rounded for presentation purposes.

Investing often generates tax consequences which are not incorporated in this report.

Prospectus Gross Expense Ratio reflects the annual percentage of a fund's assets paid out in expenses. Expenses include management, 12B-1, transfer agent and all other asset-based fees associated with the fund's daily operations and distribution, with the exception of brokerage commissions. It does not reflect expenses that have been reimbursed by the financial representative, reductions from brokerage service arrangements or other expense offset arrangements.

This report relies on mutual fund holdings reported by NASDAQ via a data feed. As a result, the above review is only as accurate as the data supplied by NASDAQ. In all cases there is a reporting delay.

This report is to be used for illustration and discussion purposes only. Please review the underlying assumptions carefully. Past performance is no guarantee of future results and principal values fluctuate with changing market conditions.