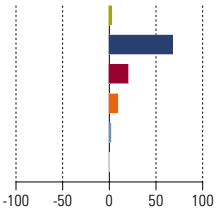
# County of San Bernardino: 457(b)

## Portfolio Snapshot

| Portfolio Value | Benchmark | Account Number | Report Currency |
|---|---|---|---|
| 400,592,604.00 | SBC 457 2017 Custom Benchmark | | USD |

## Analysis

### Asset Allocation




| | Portfolio Long | Portfolio Short | Portfolio Net | Bmark Net |
|---|---|---|---|---|
| Cash | 2.27 | 0.03 | 2.24 | 2.24 |
| US Stock | 67.51 | 0.00 | 67.51 | 67.51 |
| Non US Stock | 20.03 | 0.02 | 20.01 | 20.01 |
| Bond | 8.81 | 0.00 | 8.81 | 10.07 |
| Other | 1.44 | 0.00 | 1.44 | 0.16 |
| Not Classified | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 100.06 | 0.06 | 100.00 | 100.00 |

### Equity Investment Style %

| | Value | Core | Growth |
|---|---|---|---|
| Large | 18 | 19 | 26 |
| Mid | 8 | 9 | 11 |
| Small | 3 | 3 | 3 |

0-10 10-25 25-50 >50

Total Stock Holdings 7999

Not Classified % 0.00

### Fixed-Income Investment Style %

| | Ltd | Mod | Ext |
|---|---|---|---|
| High | 0 | 23 | 0 |
| Med | 36 | 20 | 0 |
| Low | 11 | 10 | 0 |

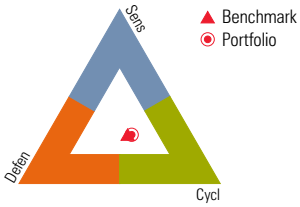
0-10 10-25 25-50 >50

Total Bond Holdings 1045

Not Classified % 0.00

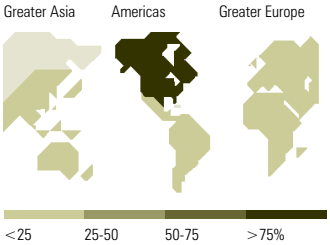
## Stock Analysis

### Stock Sectors




| | Portfolio % | Bmark % |
|---|---|---|
| **Defen** | **20.73** | **22.31** |
| Cons Defensive | 6.09 | 6.93 |
| Healthcare | 11.91 | 11.99 |
| Utilities | 2.73 | 3.39 |
| **Sens** | **38.63** | **38.20** |
| Comm Svcs | 3.22 | 3.07 |
| Energy | 5.91 | 5.64 |
| Industrials | 10.40 | 13.02 |
| Technology | 19.10 | 16.47 |
| **Cycl** | **40.64** | **39.48** |
| Basic Matls | 4.12 | 5.49 |
| Cons Cyclical | 14.49 | 12.10 |
| Financial Svcs | 16.38 | 15.78 |
| Real Estate | 5.65 | 6.11 |
| Not Classified | 0.00 | 0.01 |

### Stock Regions

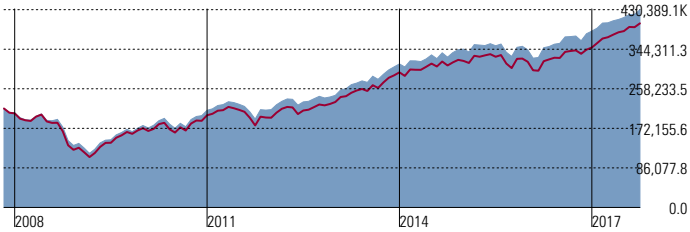



| | Portfolio % | Bmark % |
|---|---|---|
| **Americas** | **79.43** | **79.54** |
| North America | 78.55 | 79.47 |
| Central/Latin | 0.88 | 0.07 |
| **Greater Asia** | **9.27** | **8.71** |
| Japan | 2.77 | 3.43 |
| Australasia | 0.63 | 1.98 |
| Asia Developed | 2.78 | 2.75 |
| Asia emerging | 3.09 | 0.55 |
| **Greater Europe** | **11.30** | **11.76** |
| United Kingdom | 3.32 | 3.66 |
| Europe Developed | 7.26 | 7.90 |
| Europe Emerging | 0.15 | 0.01 |
| Africa/Middle East | 0.57 | 0.19 |
| Not Classified | 0.00 | 0.00 |

## Performance (Return as of date 9/30/2017)

### Investment Activity Graph

Portfolio — Initial Mkt Value: 215,272,043.10
Benchmark — Final Mkt Value: 400,592,604.00




| Trailing Returns | 3 Mo | 1 Yr | 3 Yr | 5 Yr | 10 Yr |
|---|---|---|---|---|---|
| Portfolio Return | 4.39 | 17.18 | 9.04 | 12.33 | 6.68 |
| Benchmark Return | 4.12 | 15.37 | 9.58 | 12.22 | 7.38 |
| +/- Benchmark Return | 0.27 | 1.81 | -0.54 | 0.11 | -0.70 |

| Time Period Return | Best % | Worst % |
|---|---|---|
| 3 Months | 28.17 (03/09-05/09) | -31.98 (09/08-11/08) |
| 1 Year | 55.96 (03/09-02/10) | -42.22 (03/08-02/09) |
| 3 Years | 25.13 (03/09-02/12) | -4.53 (10/07-09/10) |

| Portfolio Yield | Yield % |
|---|---|
| Trailing 12 Month | 1.65 |

***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 information current to the most recent month-end, please visit http://www.morningstaradvisor.com/familyinfo.asp*

## Holdings

| Top 10 holdings out of 18 | Ticker | Type | Holding Value | % Assets |
|---|---|---|---|---|
| Vanguard Institutional Index I | VINIX | MF | 79,748,732.00 | 19.91 |
| American Funds Growth Fund of Amer R6 | RGAGX | MF | 72,608,914.00 | 18.13 |
| Vanguard Mid Cap Index Institutional | VMCIX | MF | 43,972,215.00 | 10.98 |
| American Funds Capital World Gr&Inc R6 | RWIGX | MF | 38,653,107.00 | 9.65 |
| Vanguard Small Cap Index I | VSCIX | MF | 28,104,855.00 | 7.02 |
| Baron Growth Instl | BGRIX | MF | 18,894,047.00 | 4.72 |
| Vanguard Total Intl Stock Index I | VTSNX | MF | 16,506,041.00 | 4.12 |
| Loomis Sayles Investment Grade Bond Y | LSIIX | MF | 15,781,939.00 | 3.94 |
| Vanguard Target Retirement 2040 Inv | VFORX | MF | 14,782,952.00 | 3.69 |
| Vanguard Target Retirement 2030 Inv | VTHRX | MF | 13,578,061.00 | 3.39 |

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## Portfolio Snapshot

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|---|---|---|---|
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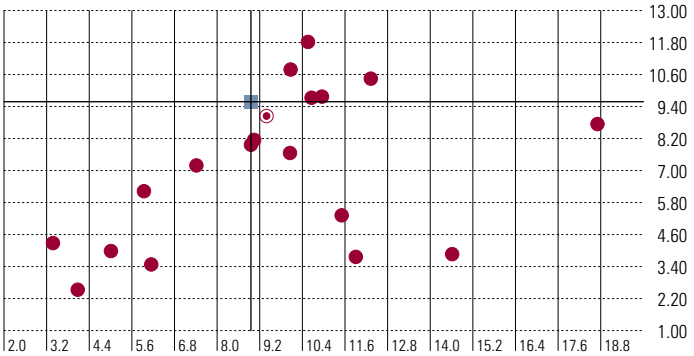
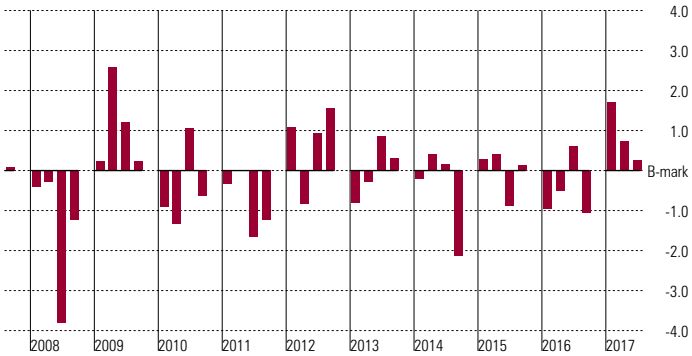
### Risk Analysis

**Risk/Reward Scatterplot** ◉ Portfolio ● Holding ■ B-mark 3-Year Mean




3-Year Standard Deviation

**Performance History Graph** ■ Portfolio Quarterly Return +/- Benchmark in %




| Risk and Return Statistics | 3 Yr | | 5 Yr | | 10 Yr | |
|---|---|---|---|---|---|---|
| As of Date 9/30/2017 | Portfolio | B-mark | Portfolio | B-mark | Portfolio | B-mark |
| Standard Deviation | 9.39 | 8.95 | 9.05 | 8.72 | 15.21 | 14.22 |
| Mean | 9.04 | 9.58 | 12.33 | 12.22 | 6.68 | 7.38 |
| Sharpe Ratio | 0.93 | 1.03 | 1.31 | 1.34 | 0.48 | 0.55 |

| MPT Statistics | 3 Yr | 5 Yr | 10 Yr |
|---|---|---|---|
| As of Date 9/30/2017 | | | |
| Alpha | -0.66 | -0.06 | -0.97 |
| Beta | 1.02 | 1.02 | 1.06 |
| R-squared | 94.98 | 95.73 | 98.25 |

### Fundamental Analysis

| Market Maturity | | |
|---|---|---|
| % of Stocks | | |
| Developed Markets | 95.31 | 99.19 |
| Emerging Markets | 4.69 | 0.81 |
| Not Available | 0.00 | 0.00 |

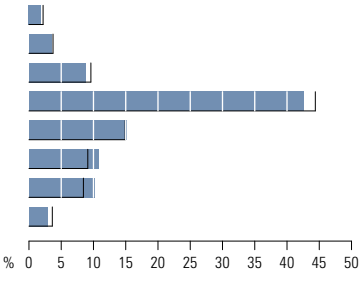
| Geometric Avg Capitalization (Mil) | |
|---|---|
| Portfolio | 34,366.12 |
| Benchmark | 21,182.53 |

| Valuation Multiples | Portfolio | B-mark |
|---|---|---|
| Price/Earnings | 21.26 | 19.07 |
| Price/Book | 2.59 | 2.30 |
| Price/Sales | 1.84 | 1.45 |
| Price/Cash Flow | 11.97 | 10.86 |

| Credit Quality | % of Bonds |
|---|---|
| AAA | 31.54 |
| AA | 5.71 |
| A | 17.71 |
| BBB | 18.87 |
| BB | 8.47 |
| B | 5.97 |
| Below B | 0.99 |
| NR/NA | 10.75 |

**Type Weightings**

| % of Stocks | Portfolio | B-mark |
|---|---|---|
| High Yield | 1.87 | 2.19 |
| Distressed | 3.55 | 3.73 |
| Hard Asset | 8.77 | 9.60 |
| Cyclical | 42.54 | 44.39 |
| Slow Growth | 15.18 | 14.92 |
| Classic Growth | 10.72 | 9.12 |
| Aggressive Growth | 10.20 | 8.44 |
| Speculative Growth | 2.84 | 3.62 |
| Not Available | 4.33 | 3.99 |




**Profitability**

| % of Stocks | 2015 | Portfolio 2016 | B-mark 2016 |
|---|---|---|---|
| Net Margin | 12.27 | 10.36 | 11.14 |
| ROE | 16.78 | 16.29 | 17.32 |
| ROA | 6.11 | 5.24 | 4.90 |
| Debt/Capital | 40.05 | 41.55 | 43.14 |

**Fund Statistics**

| | |
|---|---|
| Potential Cap Gains Exposure | 30.42 |
| Avg Net Exp Ratio | 0.28 |
| Avg Gross Exp Ratio | 0.28 |

| Interest Rate Risk | Portfolio |
|---|---|
| Maturity | 6.56 |
| Duration (total portfolio) | 4.92 |
| Avg Credit Quality | BB |

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**Non-Load Adjustment Returns (Return as of date 9/30/2017)**

| Total 18 holdings as of 9/30/2017 | Type | Holdings Date | % of Assets | Holding Value | 7-day Yield | 1 Yr Ret % | 3 Yr Ret % | 5 Yr Ret % | 10 Yr Ret % | Max Front Load % | Max Back Load % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Vanguard Institutional Index I | MF | 9/30/2017 | 19.91 | 79,748,732.00 | 0.00 | 18.57 | 10.79 | 14.19 | 7.44 | — | — |
| American Funds Growth Fund of Amer R6 | MF | 9/30/2017 | 18.13 | 72,608,914.00 | 0.00 | 20.22 | 11.82 | 15.44 | 7.60 | — | — |
| Vanguard Mid Cap Index Institutional | MF | 9/30/2017 | 10.98 | 43,972,215.00 | 0.00 | 15.31 | 9.73 | 14.40 | 7.97 | — | — |
| American Funds Capital World Gr&Inc R6 | MF | 9/30/2017 | 9.65 | 38,653,107.00 | 0.00 | 18.80 | 7.66 | 11.17 | 4.82 | — | — |
| Vanguard Small Cap Index I | MF | 9/30/2017 | 7.02 | 28,104,855.00 | 0.00 | 17.38 | 10.45 | 13.95 | 8.61 | — | — |
| Baron Growth Instl | MF | 9/30/2017 | 4.72 | 18,894,047.00 | 0.00 | 20.79 | 9.77 | 12.82 | 7.71 | — | — |
| Vanguard Total Intl Stock Index I | MF | 9/30/2017 | 4.12 | 16,506,041.00 | 0.00 | 19.30 | 5.32 | 7.51 | 1.33 | — | — |
| Loomis Sayles Investment Grade Bond Y | MF | 8/31/2017 | 3.94 | 15,781,939.00 | 0.00 | 4.24 | 2.53 | 3.09 | 5.70 | — | — |
| Vanguard Target Retirement 2040 Inv | MF | 9/30/2017 | 3.69 | 14,782,952.00 | 0.00 | 16.26 | 7.97 | 10.80 | 5.73 | — | — |
| Vanguard Target Retirement 2030 Inv | MF | 9/30/2017 | 3.39 | 13,578,061.00 | 0.00 | 13.25 | 7.19 | 9.58 | 5.27 | — | — |
| Vanguard Target Retirement 2020 Inv | MF | 9/30/2017 | 3.00 | 11,998,641.00 | 0.00 | 10.17 | 6.23 | 8.08 | 5.15 | — | — |
| Dodge & Cox International Stock | MF | 9/30/2017 | 2.91 | 11,662,596.00 | 0.00 | 26.58 | 3.87 | 10.13 | 2.98 | — | — |
| Vanguard Target Retirement 2050 Inv | MF | 9/30/2017 | 2.61 | 10,458,241.00 | 0.00 | 16.84 | 8.15 | 10.91 | 5.78 | — | — |
| Invesco SmallCapValue Y | MF | 6/30/2017 | 1.67 | 6,707,556.00 | 0.00 | 24.77 | 8.74 | 14.72 | 9.42 | — | — |
| Voya Global Real Estate I | MF | 8/31/2017 | 1.47 | 5,874,478.00 | 0.00 | -1.58 | 3.76 | 5.58 | 1.75 | — | — |
| Pioneer Global High Yield Y | MF | 8/31/2017 | 1.02 | 4,070,797.00 | 0.00 | 10.42 | 3.48 | 4.56 | 5.43 | — | — |
| Oppenheimer International Bond I | MF | 9/30/2017 | 0.94 | 3,755,744.00 | 0.00 | 5.12 | 3.98 | 2.36 | 4.32 | — | — |
| Vanguard Target Retirement Income Inv | MF | 9/30/2017 | 0.86 | 3,433,688.00 | 0.00 | 5.26 | 4.28 | 4.68 | 4.87 | — | — |

***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 information current to the most recent month-end, please visit http://advisor.morningstar.com/familyinfo.asp.*

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