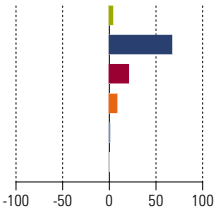
County of San Bernardino: 457(b)

Portfolio Snapshot

Portfolio Value	Benchmark	Account Number	Report Currency
427,664,367.00	SBC 457 2017 Custom Benchmark		USD

Analysis

Asset Allocation



	Portfolio Long	Portfolio Short	Portfolio Net	Bmark Net
Cash	3.70	0.03	3.67	3.67
US Stock	66.94	0.00	66.94	66.94
Non US Stock	20.41	0.02	20.39	20.39
Bond	8.37	0.01	8.36	8.92
Other	0.64	0.00	0.64	0.08
Not Classified	0.00	0.00	0.00	0.00
Total	100.05	0.05	100.00	100.00

Equity Investment Style %

	Value	Core	Growth
Large	18	19	26
Mid	8	9	11
Small	2	3	3

0-10 10-25 25-50 >50

Total Stock Holdings 8029

Not Classified % 0.00

Fixed-Income Investment Style %

	Ltd	Mod	Ext
High	0	24	0
Med	0	22	0
Low	54	0	0

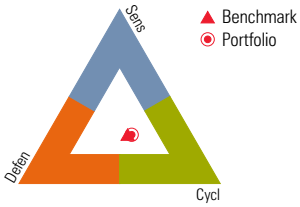
0-10 10-25 25-50 >50

Total Bond Holdings 1005

Not Classified % 0.00

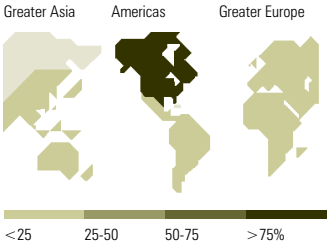
Stock Analysis

Stock Sectors



	Portfolio %	Bmark %
Defen	**20.21**	**21.77**
Cons Defensive	6.01	7.01
Healthcare	11.61	11.48
Utilities	2.59	3.28
Sens	**38.36**	**38.40**
Comm Svcs	2.92	2.97
Energy	5.99	5.68
Industrials	10.57	13.20
Technology	18.88	16.55
Cycl	**41.43**	**39.82**
Basic Matls	4.25	5.58
Cons Cyclical	14.71	12.38
Financial Svcs	16.77	15.88
Real Estate	5.70	5.98
Not Classified	0.00	0.01

Stock Regions



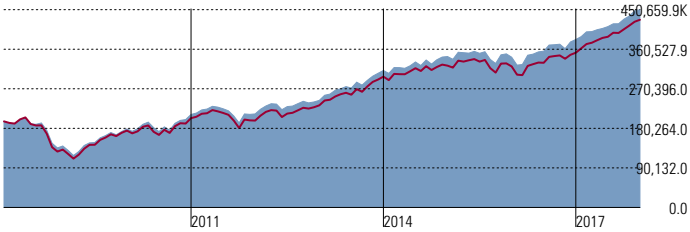
	Portfolio %	Bmark %
Americas	**78.92**	**79.10**
North America	78.11	79.04
Central/Latin	0.81	0.06
Greater Asia	**9.78**	**8.89**
Japan	2.92	3.51
Australasia	0.60	2.02
Asia Developed	3.11	2.81
Asia emerging	3.15	0.55
Greater Europe	**11.30**	**12.02**
United Kingdom	3.43	3.76
Europe Developed	7.11	8.06
Europe Emerging	0.17	0.01
Africa/Middle East	0.59	0.19
Not Classified	0.00	0.00

Performance (Return as of date 12/31/2017)

Investment Activity Graph

Portfolio — Benchmark —

Initial Mkt Value: 196,121,006.61
Final Mkt Value: 427,664,367.00



Trailing Returns	3 Mo	1 Yr	3 Yr	5 Yr	10 Yr
Portfolio Return	5.34	21.29	9.80	12.95	7.48
Benchmark Return	5.05	17.75	9.43	13.06	8.11
+/- Benchmark Return	0.29	3.53	0.37	-0.11	-0.63

Time Period Return	Best %	Worst %
3 Months	28.18 (03/09-05/09)	-31.97 (09/08-11/08)
1 Year	55.87 (03/09-02/10)	-42.23 (03/08-02/09)
3 Years	25.08 (03/09-02/12)	-0.72 (01/08-12/10)

Portfolio Yield	Yield %
Trailing 12 Month	1.64

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	84,138,836.00	19.67
American Funds Growth Fund of Amer R6	RGAGX	MF	78,175,055.00	18.28
Vanguard Mid Cap Index Institutional	VMCIX	MF	45,572,652.00	10.66
American Funds Capital World Gr&Inc R6	RWIGX	MF	42,206,083.00	9.87
Vanguard Small Cap Index I	VSCIX	MF	29,751,620.00	6.96
Baron Growth Instl	BGRIX	MF	20,383,384.00	4.77
Vanguard Total Intl Stock Index I	VTSNX	MF	18,046,690.00	4.22
Loomis Sayles Investment Grade Bond Y	LSIIX	MF	16,985,382.00	3.97
Vanguard Target Retirement 2040 Inv	VFORX	MF	16,335,558.00	3.82
Vanguard Target Retirement 2030 Inv	VTHRX	MF	14,845,537.00	3.47

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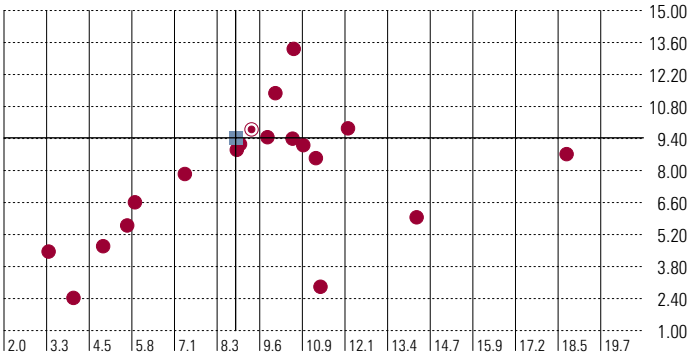
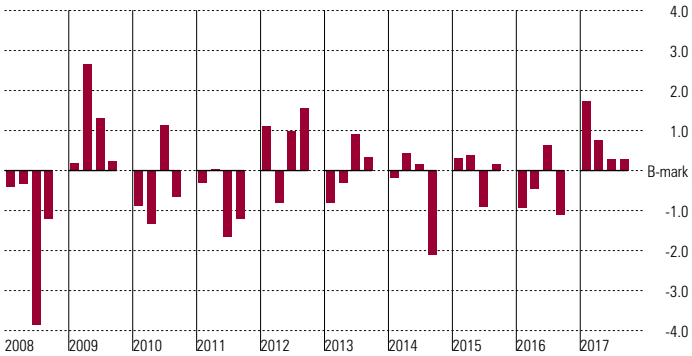
Risk Analysis

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 12/31/2017	Portfolio	B-mark	Portfolio	B-mark	Portfolio	B-mark
Standard Deviation	9.36	8.88	9.03	8.65	15.12	14.10
Mean	9.80	9.43	12.95	13.06	7.48	8.11
Sharpe Ratio	1.00	1.01	1.37	1.44	0.53	0.60

MPT Statistics	3 Yr	5 Yr	10 Yr
As of Date 12/31/2017			
Alpha	0.13	-0.32	-0.96
Beta	1.03	1.02	1.06
R-squared	95.32	95.63	98.17

Fundamental Analysis

Market Maturity		
% of Stocks		
Developed Markets	95.27	99.19
Emerging Markets	4.73	0.81
Not Available	0.00	0.00

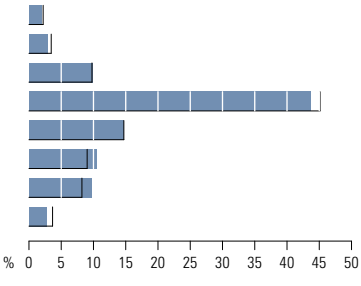
Geometric Avg Capitalization (Mil)	
Portfolio	35,983.28
Benchmark	22,259.91

Valuation Multiples	Portfolio	B-mark
Price/Earnings	21.65	19.50
Price/Book	2.63	2.32
Price/Sales	1.89	1.48
Price/Cash Flow	12.44	11.16

Credit Quality	% of Bonds
AAA	33.21
AA	5.83
A	17.60
BBB	19.31
BB	8.13
B	5.34
Below B	0.99
NR/NA	9.60

Type Weightings

% of Stocks	Portfolio	B-mark
High Yield	1.95	2.20
Distressed	2.93	3.45
Hard Asset	9.89	9.77
Cyclical	43.58	45.12
Slow Growth	14.67	14.71
Classic Growth	10.45	9.02
Aggressive Growth	9.67	8.21
Speculative Growth	2.78	3.66
Not Available	4.08	3.86



Profitability

% of Stocks	2015	Portfolio 2016	B-mark 2016
Net Margin	12.29	10.39	11.15
ROE	16.79	16.30	17.36
ROA	6.12	5.24	4.91
Debt/Capital	40.04	41.53	43.15

Fund Statistics

Potential Cap Gains Exposure	31.96
Avg Net Exp Ratio	0.28
Avg Gross Exp Ratio	0.28

Interest Rate Risk	Portfolio
Maturity	6.57
Duration (total portfolio)	4.80
Avg Credit Quality	BB

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Non-Load Adjustment Returns (Return as of date 12/31/2017)

Total 18 holdings as of 12/31/2017	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	12/31/2017	19.67	84,138,836.00	0.00	21.79	11.38	15.76	8.50	—	—
American Funds Growth Fund of Amer R6	MF	12/31/2017	18.28	78,175,055.00	0.00	26.53	13.32	16.46	8.63	—	—
Vanguard Mid Cap Index Institutional	MF	12/31/2017	10.66	45,572,652.00	0.00	19.29	9.40	15.02	8.94	—	—
American Funds Capital World Gr&Inc R6	MF	12/31/2017	9.87	42,206,083.00	0.00	25.08	9.46	11.39	5.32	—	—
Vanguard Small Cap Index I	MF	12/31/2017	6.96	29,751,620.00	0.00	16.25	9.85	14.45	9.71	—	—
Baron Growth Instl	MF	12/31/2017	4.77	20,383,384.00	0.00	27.35	9.11	13.52	8.55	—	—
Vanguard Total Intl Stock Index I	MF	12/31/2017	4.22	18,046,690.00	0.00	27.55	8.54	7.14	1.94	—	—
Loomis Sayles Investment Grade Bond Y	MF	11/30/2017	3.97	16,985,382.00	0.00	6.66	2.43	2.75	5.44	—	—
Vanguard Target Retirement 2040 Inv	MF	12/31/2017	3.82	16,335,558.00	0.00	20.71	8.91	11.47	6.49	—	—
Vanguard Target Retirement 2030 Inv	MF	12/31/2017	3.47	14,845,537.00	0.00	17.52	7.85	10.13	5.92	—	—
Vanguard Target Retirement 2020 Inv	MF	12/31/2017	3.02	12,907,184.00	0.00	14.08	6.61	8.50	5.61	—	—
Dodge & Cox International Stock	MF	9/30/2017	2.89	12,350,206.00	0.00	23.94	5.96	8.50	3.17	—	—
Vanguard Target Retirement 2050 Inv	MF	12/31/2017	2.80	11,965,888.00	0.00	21.39	9.16	11.63	6.56	—	—
Invesco SmallCapValue Y	MF	9/30/2017	1.55	6,619,394.00	0.00	18.58	8.72	14.82	10.83	—	—
Voya Global Real Estate I	MF	11/30/2017	1.44	6,163,202.00	0.00	10.43	2.92	5.24	3.35	—	—
Pioneer Global High Yield Y	MF	11/30/2017	0.94	4,005,986.00	0.00	10.21	5.60	3.99	5.66	—	—
Oppenheimer International Bond I	MF	12/31/2017	0.84	3,609,751.00	0.00	11.12	4.69	2.14	4.10	—	—
Vanguard Target Retirement Income Inv	MF	12/31/2017	0.84	3,601,959.00	0.00	8.47	4.46	4.95	4.91	—	—

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