

The Barron's 400 as a Mid Cap Allocation in a Domestic Equity Portfolio

January, 2016

BARRON'S 400

Financial Advisor Takeaways

1. The domestic equity policy mix is the single most significant determinant of the performance of the domestic equity portfolio.

2. The B400 is an efficient tool to gain mid cap equity exposure in the domestic policy mix.

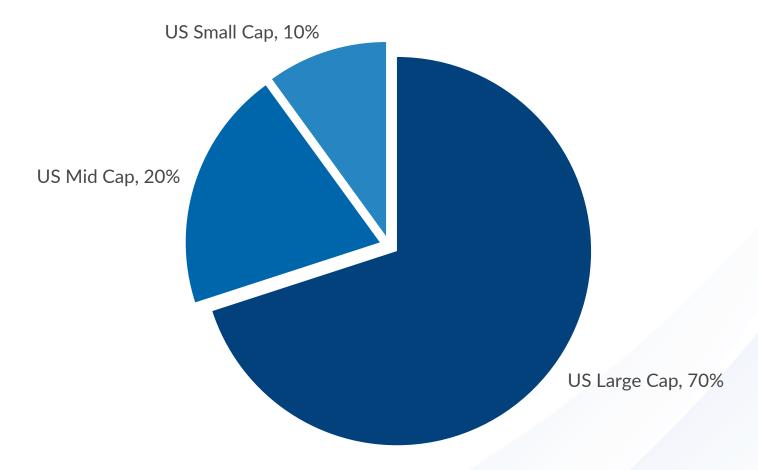
3. Irrespective of the domestic equity policy mix, portfolios using the B400 outperform those using Russell Mid Cap and/or a majority of mid cap active managers.





The Policy Portfolio Provides a Guide to Exposure by Size & Style – Example

A Domestic Equity Policy Portfolio



Note: Actual size and style exposures depend on the objectives and risk tolerance of the investor.





Asset Class Benchmarks by Size & Style

	Value	Blend	Growth
Large Cap	Russell 1K Value	Russell 1K S&P 500	Russell 1K Growth
Mid Cap	Russell Mid Cap Value	Russell Mid Cap	Barron's 400 Russell Mid Cap Growth
Small Cap	Russell 2K Value	Russell 2K	Russell 2K Growth





Periodic Table of Benchmark Returns – Total Returns

														Liv	'e			
1	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
28	8.6%	24.2%	15.9%	2.5%	-9.8%	47.3%	23.5%	12.7%	18.4%	6.2%	-33.8%	41.1%	26.9%	2.1%	17.3%	41.6%	13.7%	1.4%
27	7.0%	21.3%	8.2%	-0.6%	-16.2%	45.1%	20.2%	12.0%	15.8%	5.8%	-37.0%	40.5%	25.5%	1.5%	16.4%	38.8%	13.2%	0.9%
13	3.1%	21.0%	-3.0%	-5.6%	-20.5%	40.1%	18.3%	6.3%	15.5%	5.6%	-37.6%	28.4%	24.0%	0.5%	16.3%	34.8%	13.2%	-2.4%
10	0.1%	20.9%	-7.8%	-11.9%	-21.7%	29.9%	11.4%	4.9%	15.3%	5.5%	-39.2%	27.2%	16.1%	-1.5%	16.0%	33.1%	7.1%	-3.1%
-2	2.5%	18.2%	-9.1%	-12.4%	-22.1%	28.7%	10.9%	4.6%	12.7%	-1.6%	-41.5%	26.5%	15.1%	-4.2%	15.1%	32.4%	4.9%	-4.4%
																/	/	
ge 3	1.1%	6.0%	25.0%	14.9%	12.3%	18.6%	12.6%	8.1%	5.6%	7.7%	7.7%	14.7%	11.8%	6.3%	2.2%	9.2%	8.8%	5.8%
ınk	3	1	1	2	1	2	1	2	5	1	4	1	3	3	5	1	4	4

<u>Average Range (Maximum – Minimum)</u>

All 18 Years = **11.6%**

Live 8 Years = **8.3%**

Average B400 Rank

KEY

R 1K S&P 500

B400

R Mid

R 2K

All 18 Years = **2.4**

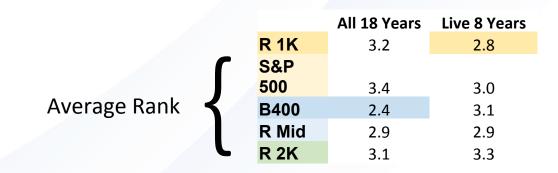
Live 8 Years = **3.1**





Annual Ranking of Benchmark Total Returns

											Live							
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
R 1K	2	4	4	5	4	4	4	3	3	2	3	3	4	2	2	4	2	2
S&P 500	1	3	5	4	5	5	5	4	2	4	2	5	5	1	4	5	1	1
B 400	3	1	1	2	1	2	1	2	5	1	4	1	3	3	5	1	4	4
R Mid	4	5	2	3	2	3	2	1	4	3	5	2	2	4	1	3	3	3
R 2K	5	2	3	1	3	1	3	5	1	5	1	4	1	5	3	2	5	5

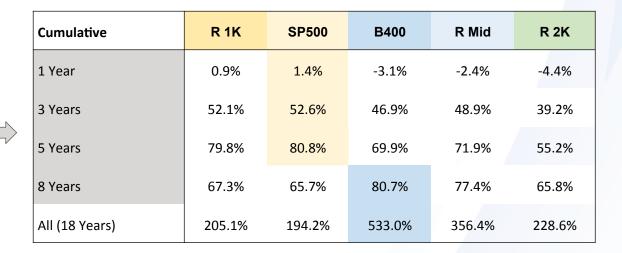






Benchmark Total Return Performance: Ending 2015

Annualized (Ret)	R 1K	SP500	B400	R Mid	R 2K
1 Year	0.9%	1.4%	-3.1%	-2.4%	-4.4%
3 Years	15.0%	15.1%	13.7%	14.2%	11.7%
5 Years	12.4%	12.6%	11.2%	11.4%	9.2%
8 Years	6.6%	6.5%	7.7%	7.4%	6.5%
All (18 Years)	6.4%	6.2%	10.8%	8.8%	6.8%





Std. Dev. (SD)	R 1K	SP500	B400	R Mid	R 2K
3 Years	10.6%	10.6%	12.5%	11.0%	14.2%
5 Years	11.9%	11.7%	15.3%	13.0%	15.9%
8 Years	16.7%	16.4%	19.6%	19.3%	21.2%
All (18 Years)	15.7%	15.5%	18.6%	17.4%	20.4%

Ret / SD (bps)	R 1K	SP500	B400	R Mid	R 2K
3 Years	141	142	110	129	82
5 Years	105	107	73	88	58
8 Years	40	40	39	38	31
All (18 Years)	41	40	58	51	33





Financial Advisor Takeaways

1. The domestic equity policy mix is the single most significant determinant of the performance of the domestic equity portfolio.

2. The B400 is an efficient tool to gain mid cap equity exposure in the domestic policy mix.

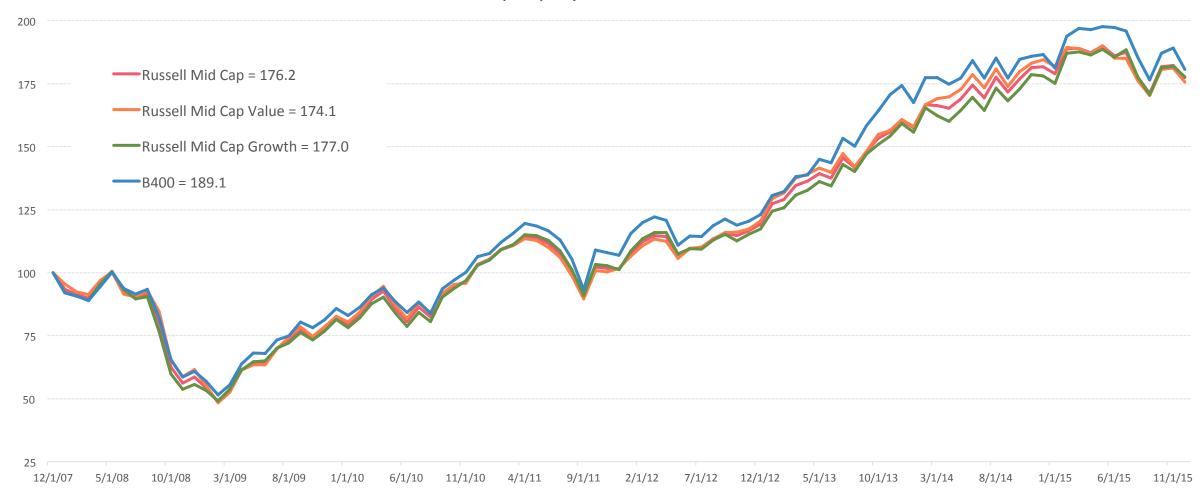
3. Irrespective of the domestic equity policy mix, portfolios using the B400 outperform those using Russell Mid Cap and/or a majority of mid cap active managers.





US Equity Mid Cap Indexes: Growth of 100 (8 Years Ending 2015)

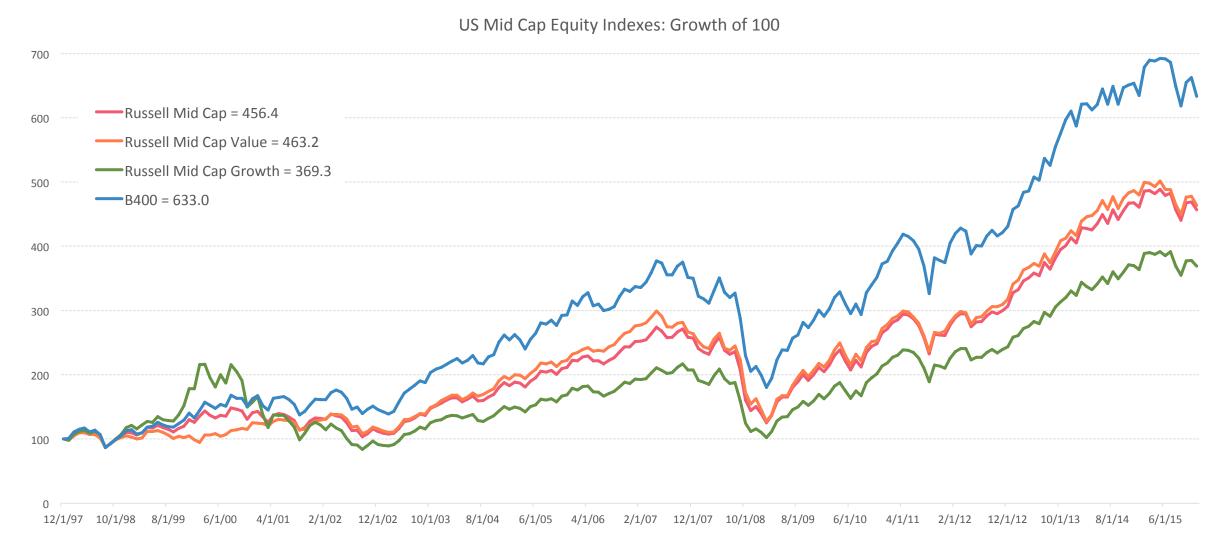








US Equity Mid Cap Indexes: Growth of 100 (18 Years Ending 2015)

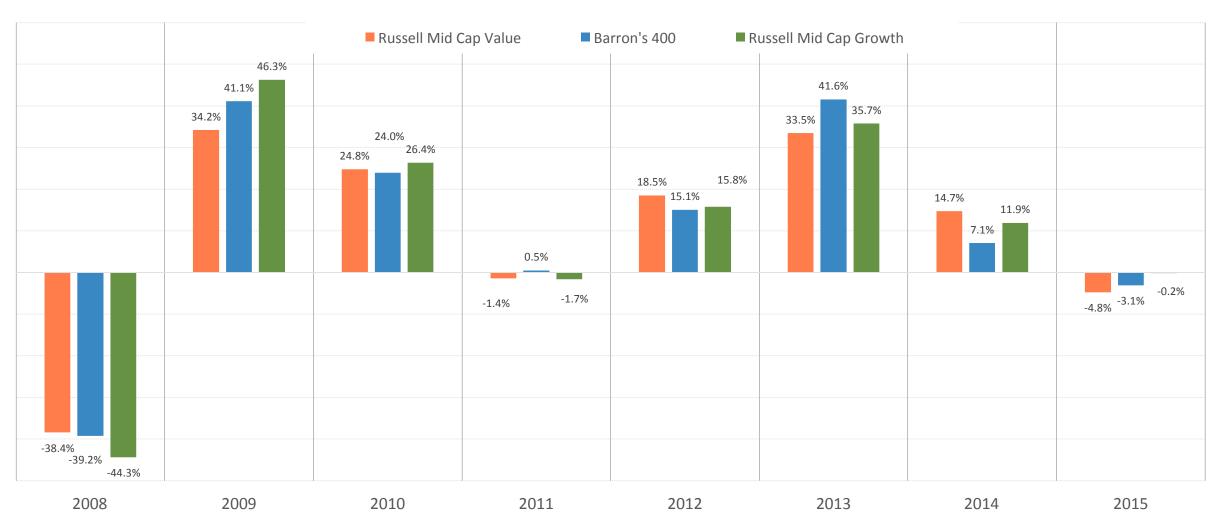






Mid Cap Benchmark Performance: Annualized Total Returns

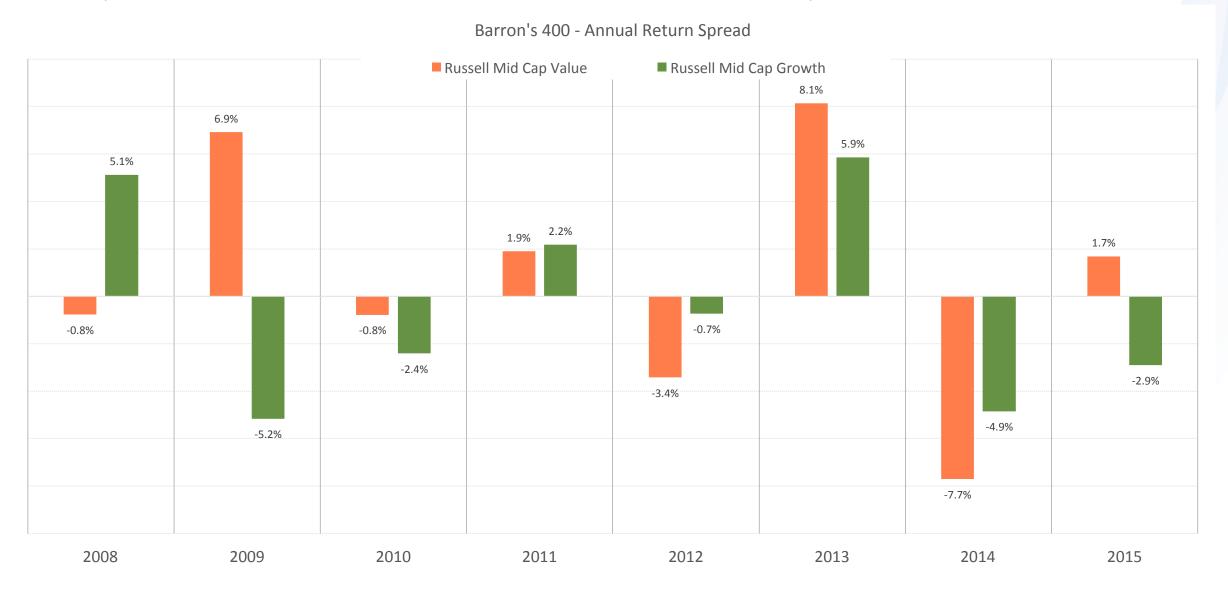








Mid Cap Benchmark Performance: B400 Annual Total Return Spread

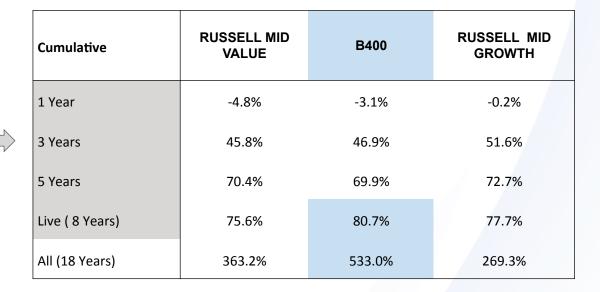






Mid Cap Benchmark Total Return Performance: Ending 2015

Annualized (Ret)	RUSSELL MID VALUE	B400	RUSSELL MID GROWTH
1 Year	-4.8%	-3.1%	-0.2%
3 Years	13.4%	13.7%	14.9%
5 Years	11.3%	11.2%	11.5%
Live (8 Years)	7.3%	7.7%	7.5%
All (18 Years)	8.9%	10.8%	7.5%





Std. Dev. (SD)	RUSSELL MID VALUE	B400	RUSSELL MID GROWTH
3 Years	10.9%	12.5%	11.5%
5 Years	12.6%	15.3%	13.7%
Live (8 Years)	19.5%	19.6%	19.5%
All (18 Years)	16.7%	18.6%	22.0%



Ret / SD (bps)	RUSSELL MID VALUE	B400	RUSSELL MID GROWTH
3 Years	123	110	130
5 Years	89	73	84
Live (8 Years)	37	39	38
All (18 Years)	53	58	34





Style Factor Loadings – Four Factor Model

	Large Styl	e Factors	Small Sty	le Factors	Total Sty	le Loading
Index	R1K Growth	R1K Value	R2K Growth	R 2K Value	Growth	Value
Russell 1K	48%	52%	-	-	48%	58%
S&P 500	50%	50%	-	-	50%	50%
Russell Mid Cap	42%	27%	19%	12%	61%	39%
Russell Mid Cap Value	17%	55%	3%	26%	20%	81%
Russell Mid Cap Growth	66%	-	34%	-	100%	0%
B400	37%	-	36%	27%	73%	27%
Russell 2K	-	-	51%	49%	51%	41%

Source: FactSet. Uses five-years of monthly returns ending 2015.





Barron's 400 versus Mid Cap Equity Universe

	Mid Cap Eq	uity Universe	Mid Cap Growth Equity Universe			
Time Period	# of Funds	B400 Rank (Percentile)	# of Funds	B400 Rank (Percentile)		
Three Years	280	96 (34%)	109	42 (39%)		
Five Years	255	65 (25%)	101	30 (30%)		
Eight Years	222	62 (28%)	86	23 (27%)		

Source: FactSet. Uses performance of "Primary Share Classes" in the Lipper US Equity Universe.





Financial Advisor Takeaways

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Investor Profiles



Capital Appreciation



Capital Appreciation& Income



Income





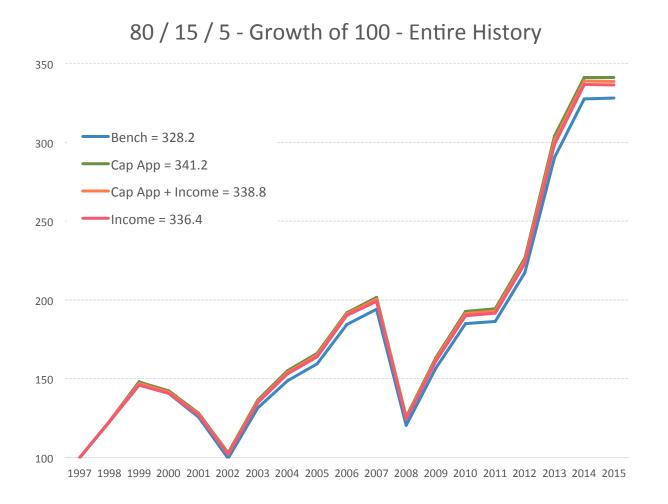
80 / 15 / 5 Policy Mix – Implementation by Investor Profile

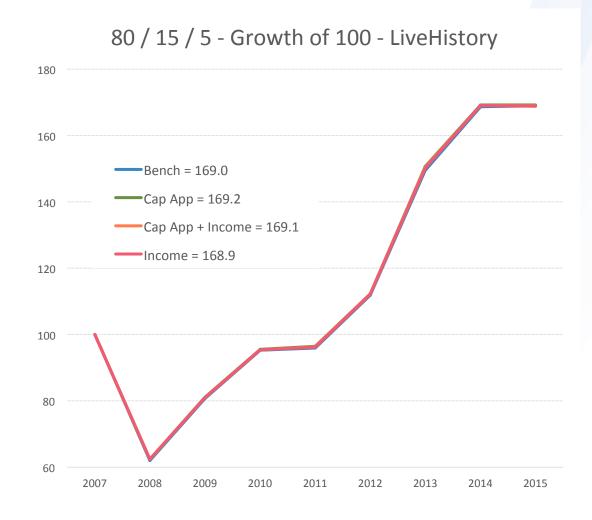
				Investor Profile	
US Asset Class	Passive Implementation	Benchmark	Сар Арр	Cap App + Income	Income
Large Cap	Russell 1K	80%	80%	80%	80%
Mid Cap	Russell Mid Cap	15%			
Mid Cap Value	Russell Mid Cap Value		5%	7.5%	10%
Mid Cap Growth	B400		10%	7.5%	5%
Small Cap	Russell 2K	5%	5%	5%	5%
		100%	100%	100%	100%





80 / 15 / 5 Policy Mix - Growth of \$100 by Investor Profile









80 / 15 / 5 Policy Mix – Performance Summary by Investor Profile

			Investor Profile		
	Benchmark	Сар Арр	Cap App + Income	Income	S&P 500
Annualized Return					
1 Year	0.1%	0.0%	-0.1%	-0.1%	1.3%
3 Years	14.7%	14.6%	14.6%	14.6%	15.1%
5 Years	12.1%	12.1%	12.1%	12.1%	12.5%
Live (8 Years)	6.8%	6.8%	6.8%	6.8%	6.5%
All (18 Years)	6.8%	7.1%	7.0%	7.0%	6.2%
Cumulative Return					
1 Year	0.1%	0.0%	-0.1%	-0.1%	1.3%
3 Years	51.0%	50.7%	50.7%	50.6%	52.4%
5 Years	77.3%	77.1%	77.1%	77.1%	80.6%
Live (8 Years)	69.0%	69.2%	69.1%	68.9%	65.5%
All (18 Years)	228.2%	241.2%	238.8%	236.4%	193.9%





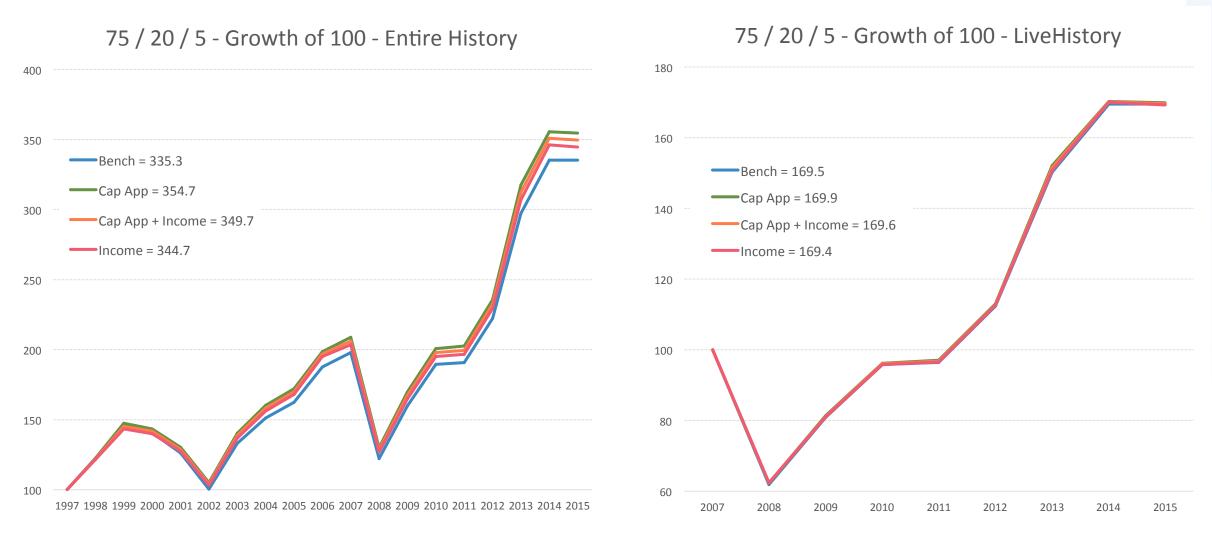
75 / 20 / 5 Policy Mix – Implementation by Investor Profile

				Investor Profile	
US Asset Class	Passive Implementation	Benchmark	Сар Арр	Cap App + Income	Income
Large Cap	Russell 1K	75%	75%	75%	75%
Mid Cap	Russell Mid Cap	20%			
Mid Cap Value	Russell Mid Cap Value		5%	10%	15%
Mid Cap Growth	B400		15%	10%	5%
Small Cap	Russell 2K	5%	5%	5%	5%
		100%	100%	100%	100%





75 / 20 / 5 Policy Mix - Growth of \$100 by Investor Profile







75 / 20 / 5 Policy Mix – Performance Summary by Investor Profile

			Investor Profile		
	Benchmark	Сар Арр	Cap App + Income	Income	S&P 500
Annualized Return					
1 Year	0.0%	-0.2%	-0.3%	-0.4%	1.3%
3 Years	14.7%	14.6%	14.6%	14.6%	15.1%
5 Years	12.1%	12.0%	12.1%	12.1%	12.5%
Live (8 Years)	6.8%	6.9%	6.8%	6.8%	6.5%
All (18 Years)	7.0%	7.3%	7.2%	7.1%	6.2%
Cumulative Return					
1 Year	0.0%	-0.2%	-0.3%	-0.4%	1.3%
3 Years	50.8%	50.5%	50.4%	50.3%	52.4%
5 Years	76.9%	76.6%	76.6%	76.7%	80.6%
Live (8 Years)	69.5%	69.9%	69.6%	69.4%	65.5%
All (18 Years)	235.3%	254.7%	249.7%	244.7%	193.9%





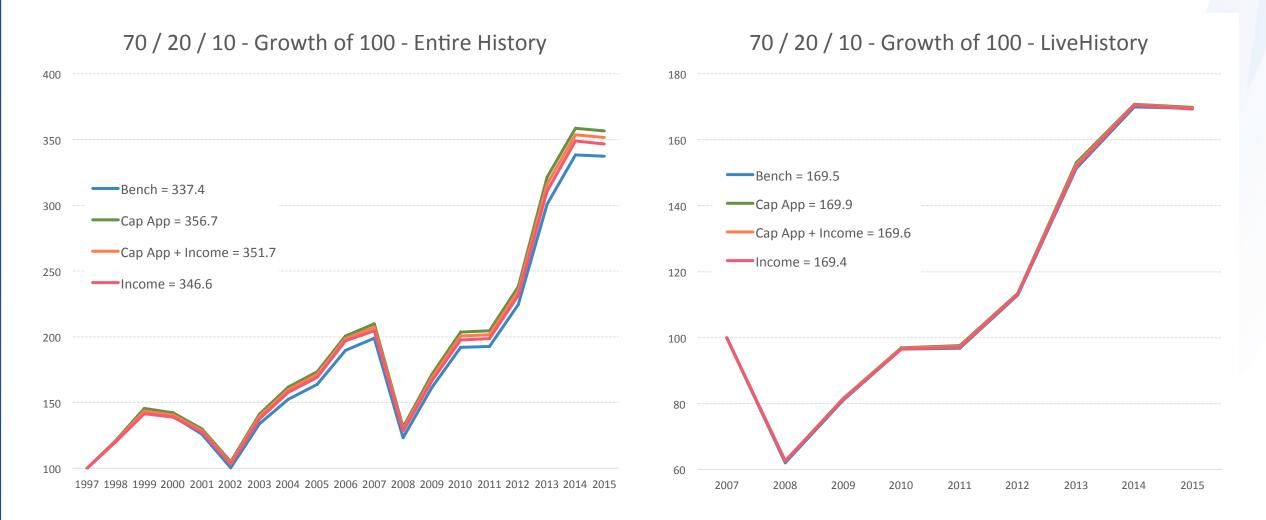
70 / 20 / 10 Policy Mix – Implementation by Investor Profile

				Investor Profile	
US Asset Class	Passive Implementation	Benchmark	Сар Арр	Cap App + Income	Income
Large Cap	Russell 1K	70%	70%	70%	70%
Mid Cap	Russell Mid Cap	20%			
Mid Cap Value	Russell Mid Cap Value		5%	10%	15%
Mid Cap Growth	B400		15%	10%	5%
Small Cap	Russell 2K	10%	10%	10%	10%
		100%	100%	100%	100%





70 / 20 / 10 Policy Mix - Growth of \$100 by Investor Profile







70 / 20 / 10 Policy Mix – Performance Summary by Investor Profile

			Investor Profile		
	Benchmark	Сар Арр	Cap App + Income	Income	S&P 500
Annualized Return					
1 Year	-0.3%	-0.5%	-0.6%	-0.7%	1.3%
3 Years	14.5%	14.4%	14.4%	14.4%	15.1%
5 Years	11.9%	11.9%	11.9%	11.9%	12.5%
Live (8 Years)	6.8%	6.9%	6.8%	6.8%	6.5%
All (18 Years)	7.0%	7.3%	7.2%	7.2%	6.2%
Cumulative Return					
1 Year	-0.3%	-0.5%	-0.6%	-0.7%	1.3%
3 Years	50.2%	49.8%	49.7%	49.7%	52.4%
5 Years	75.7%	75.4%	75.4%	75.4%	80.6%
Live (8 Years)	69.5%	69.9%	69.6%	69.4%	65.5%
All (18 Years)	237.4%	256.7%	251.7%	246.6%	193.9%





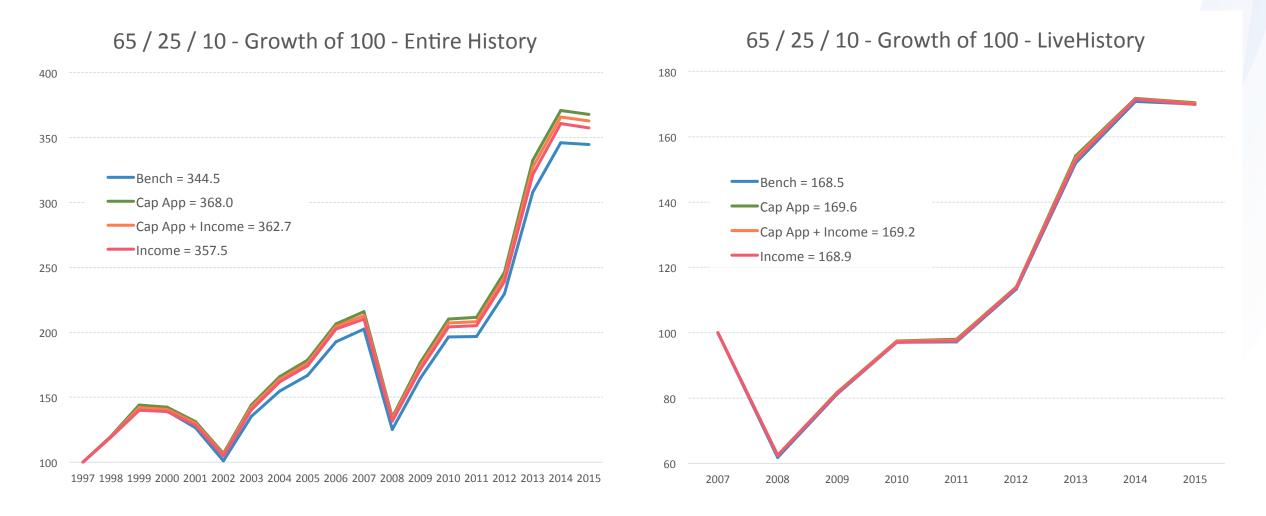
65 / 25 / 10 Policy Mix – Implementation by Investor Profile

				Investor Profile	
US Asset Class	Passive Implementation	Benchmark	Сар Арр	Cap App + Income	Income
Large Cap	Russell 1K	65%	65%	65%	65%
Mid Cap	Russell Mid Cap	25%			
Mid Cap Value	Russell Mid Cap Value		7.5%	12.5%	17.5%
Mid Cap Growth	B400		17.5%	12.5%	7.5%
Small Cap	Russell 2K	10%	10%	10%	10%
		100%	100%	100%	100%





65 / 25 / 10 Policy Mix - Growth of \$100 by Investor Profile







65 / 25 / 10 Policy Mix – Performance Summary by Investor Profile

			Investor Profile		
	Benchmark	Сар Арр	Cap App + Income	Income	S&P 500
Annualized Return					
1 Year	-0.5%	-0.7%	-0.8%	-0.9%	1.3%
3 Years	14.5%	14.4%	14.3%	14.3%	15.1%
5 Years	11.9%	11.8%	11.8%	11.8%	12.5%
Live (8 Years)	6.9%	6.9%	6.9%	6.9%	6.5%
All (18 Years)	7.1%	7.5%	7.4%	7.3%	6.2%
Cumulative Return					
1 Year	-0.5%	-0.7%	-0.8%	-0.9%	1.3%
3 Years	50.0%	49.5%	49.5%	49.4%	52.4%
5 Years	75.3%	74.9%	74.9%	74.9%	80.6%
Live (8 Years)	70.1%	70.5%	70.2%	69.9%	65.5%
All (18 Years)	244.5%	268.0%	262.7%	257.5%	193.9%





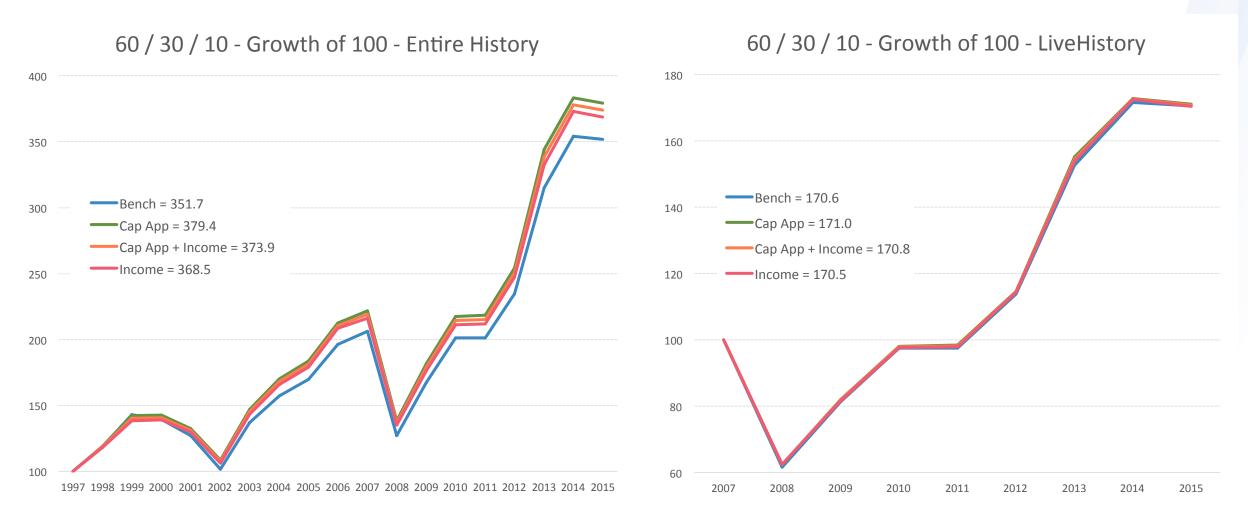
60 / 30 / 10 Policy Mix – Implementation by Investor Profile

				Investor Profile	
US Asset Class	Passive Implementation	Benchmark	Сар Арр	Cap App + Income	Income
Large Cap	Russell 1K	60%	60%	60%	60%
Mid Cap	Russell Mid Cap	30%			
Mid Cap Value	Russell Mid Cap Value		10%	15%	20%
Mid Cap Growth	B400		20%	15%	10%
Small Cap	Russell 2K	10%	10%	10%	10%
		100%	100%	100%	100%





60 / 30 / 10 Policy Mix - Growth of \$100 by Investor Profile







60 / 30 / 10 Policy Mix – Performance Summary by Investor Profile

			Investor Profile		
	Benchmark	Сар Арр	Cap App + Income	Income	S&P 500
Annualized Return					
1 Year	-0.6%	-1.0%	-1.1%	-1.2%	1.3%
3 Years	14.4%	14.3%	14.3%	14.2%	15.1%
5 Years	11.8%	11.8%	11.8%	11.8%	12.5%
Live (8 Years)	6.9%	6.9%	6.9%	6.9%	6.5%
All (18 Years)	7.2%	7.7%	7.6%	7.5%	6.2%
Cumulative Return					
1 Year	-0.6%	-1.0%	-1.1%	-1.2%	1.3%
3 Years	49.9%	49.2%	49.2%	49.1%	52.4%
5 Years	74.9%	74.4%	74.5%	74.5%	80.6%
Live (8 Years)	70.6%	71.0%	70.8%	70.5%	65.5%
All (18 Years)	251.7%	279.4%	273.9%	268.5%	193.9%





Performance Summary - Excess Returns Relative to Benchmark Live

Investor Profile

Investor Profile

Live -Ann	Сар Арр	Cap App + Income	Income
80/15/5	-0.08%	-0.09%	-0.09%
75/20/5	-0.10%	-0.11%	-0.13%
70/20/10	-0.10%	-0.12%	-0.13%
65/25/10	-0.13%	-0.15%	-0.16%
60/30/10	0.03%	0.01%	-0.01%

Live -Cum	Сар Арр	Cap App + Income	Income
80/15/5	0.22%	0.08%	-0.06%
75/20/5	0.39%	0.11%	-0.17%
70/20/10	0.38%	0.11%	-0.17%
65/25/10	0.41%	0.14%	-0.14%
60/30/10	0.45%	0.18%	-0.10%





Performance Summary - Excess Returns Relative to Benchmark Entire History

Investor Profile

All -Ann	Сар Арр	Cap App + Income	Income
80/15/5	-0.03%	-0.03%	-0.03%
75/20/5	-0.04%	-0.04%	-0.03%
70/20/10	-0.04%	-0.04%	-0.03%
65/25/10	-0.05%	-0.05%	-0.04%
60/30/10	0.45%	0.37%	0.28%

Investor Profile

All -Cum	Сар Арр	Cap App + Income	Income
80/15/5	13.0%	10.6%	8.2%
75/20/5	19.4%	14.3%	9.3%
70/20/10	19.4%	14.3%	9.3%
65/25/10	23.4%	18.2%	13.0%
60/30/10	27.6%	22.2%	16.8%





Mid Cap (MC) Allocations by Policy Portfolio & Investor Profile

Investor Profile

LC / MC / SC Policy Mix	Capital Appreciation		Capital Appreciation & Income		Income	
	<u>Value</u>	<u>Growth</u>	<u>Value</u>	<u>Growth</u>	<u>Value</u>	<u>Growth</u>
80 / 15 / 5	5%	10%	7.5%	7.5%	10%	5%
75 / 20 / 5	5%	15%	10%	10%	15%	5%
70 / 20 / 10	5%	15%	10%	10%	15%	5%
65 / 25 / 10	7.5%	17.5%	12.5%	12.5%	17.5%	7.5%
60 / 30 / 10	10%	20%	15%	15%	20%	10%







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