

VALUE AVERAGING LUMP SUM INVESTMENT ANALYSIS - BACKTEST REPORT



Security: **SPY - S&P 500 Index ETF**

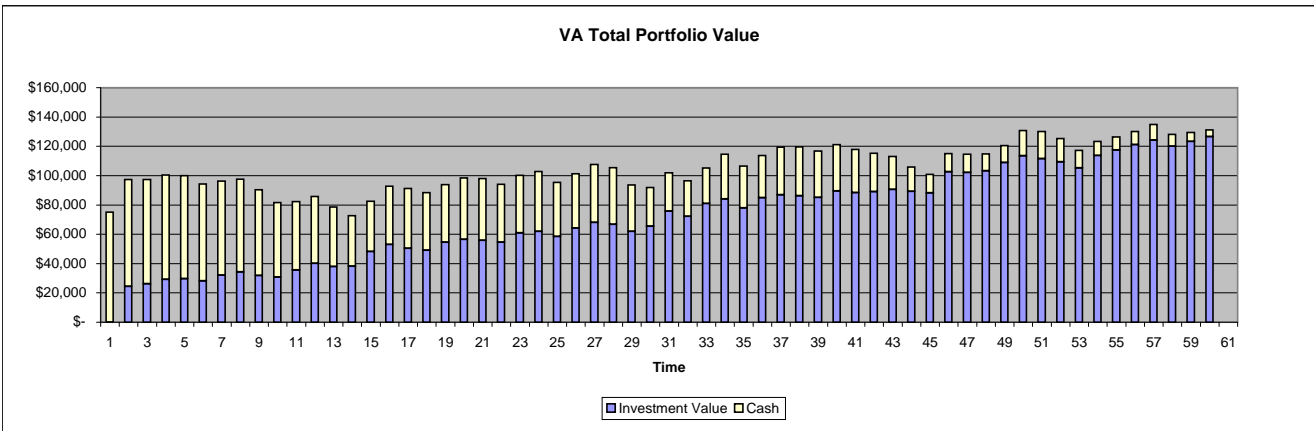
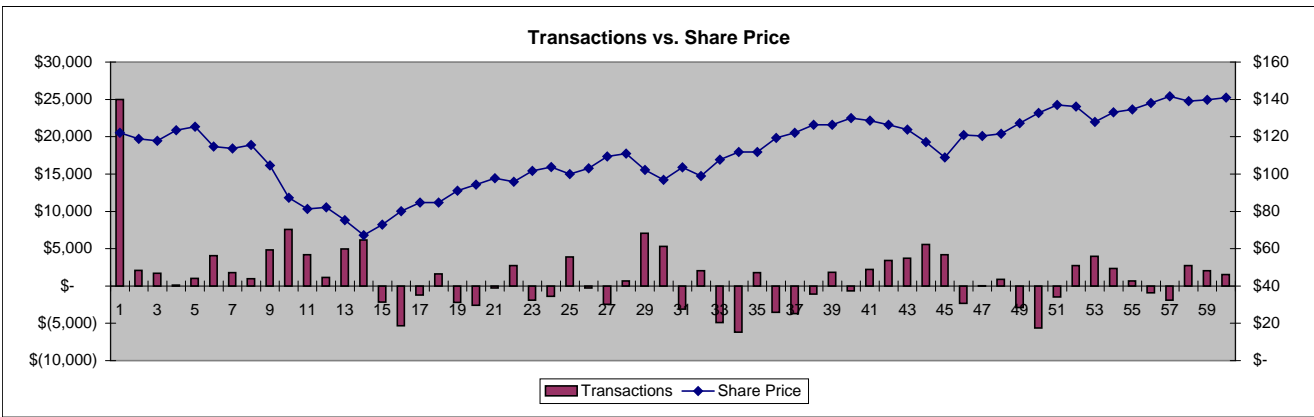
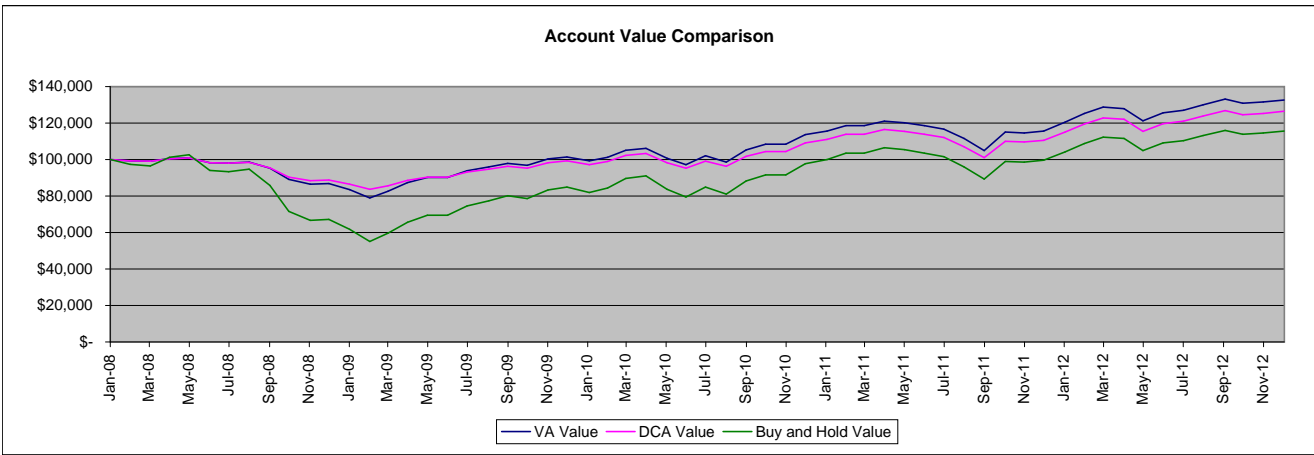
Dollar amount initially allocated to money market fund **\$ 100,000**
 Dollar amount of initial investment **\$ 25,000** 25%
 Desired annual portfolio growth rate **8.00%**
 Sell shares to force the portfolio to maintain the desired level **Yes**
 Double confirm sell transaction **Yes**
 Dollar amount of increase / decrease desired each month **\$ 1,271**

Start Date: January 2, 2008
 End Date: December 3, 2012
 Investment Term 5 years

VALUE AVERAGING	
Total Portfolio	\$ 132,669
Cost Base	\$ 97,824
Gain/Loss	\$ 34,844
Total Return	35.62%
Annual Return	6.28%
Avg cost/share	107.71
VA BEATS DCA BY:	9.18%
VA BEATS LS BY:	20.04%

DOLLAR COST AVERAGING	
Total Portfolio	\$ 126,441
Cost Base	\$ 100,000
Gain/Loss	\$ 26,441
Total Return	26.44%
Annual Return	4.80%
Avg cost/share	111.54

LUMP SUM	
Total Portfolio	\$ 115,579
Cost Base	\$ 100,000
Gain/Loss	\$ 15,579
Total Return	15.58%
Annual Return	2.94%
Avg cost/share	122.02

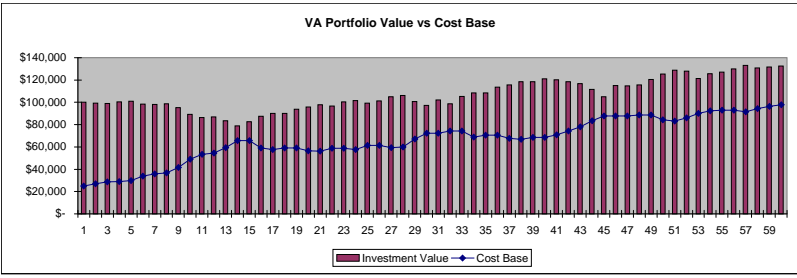


VALUE AVERAGING - LUMP SUM ANALYSIS

1 **Dollar-Cost Averaging Method:** Invest the same amount of money at regular intervals
 2 **Value-Average Method:** Set a target value and invest the necessary amount to maintain the target value at regular intervals

Fund name: **SPY - S&P 500 Index ETF**

Dollar amount initially allocated to money market fund: \$ 100,000
 Dollar amount of initial investment: \$ 25,000 25%
 No of years to average the capital: 5
 Desired annual portfolio growth rate: 8.00%
 Adjust the interest rate each year by: 0.00%
 Sell shares to force the portfolio to maintain the desired level (1=yes, 0=no): 1
 Double confirm sell transaction (1=yes, 0=no): 1
 Maximum amount to invest per trade as a percentage of cash available: 25.0%
 Dollar amount of increase / decrease desired each month: \$ 1,271



VALUE AVERAGING (VA)															DOLLAR COST AVERAGING (DCA)					LUMP SUM (LS) BUY AND HOLD	
DATE	NAV \$	\$ Distributions	Minimum Desired Value \$ (Value Path)	Target ROR	Shares Owned Before Rebalancing	Investment Value Before Rebalancing \$	Amount To Invest (Redeem) \$	Money Mkt Account \$ after Rebalancing	No. of Shares To Buy (Sell)	Shares Owned After Rebalancing	Capital at Risk	Cash	No. of Shares to Purchase	Amount Invested	Value of Money Mkt Account	Total Amount of Shares	Total Value	Buy and Hold	Total Amount of Shares	Total Value	
																					02-Jan-08
03-Dec-12	141.03	0.0000	\$ 128,521	8.00%	897.414	\$ 128,562	\$ 1,527	\$ 4,580	10.825	908.238	96.55%	3.45%	9.014	\$ 100,000	\$ 0	896.551	\$ 126,441		819.538	\$ 115,579	

Total Portfolio \$ 132,669
Cost Base \$ 97,824
Gain/Loss \$ 34,844

Total Return 35.62%
Annual Return 6.28%

Avg cost/share 107.71

VA BEATS DCA BY: 9.18%

VA BEATS LS BY: 20.04%

Total Portfolio \$ 126,441
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Total Return 26.44%
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Cost Base \$ 100,000
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Annual Return 2.94%

Avg cost/share \$ 122.02

VALUE AVERAGING LUMP SUM - CAPITAL GAINS / LOSS ANALYSIS



Security:

SPY - S&P 500 Index ETF

Taxable portion of capital gain
Marginal tax rate

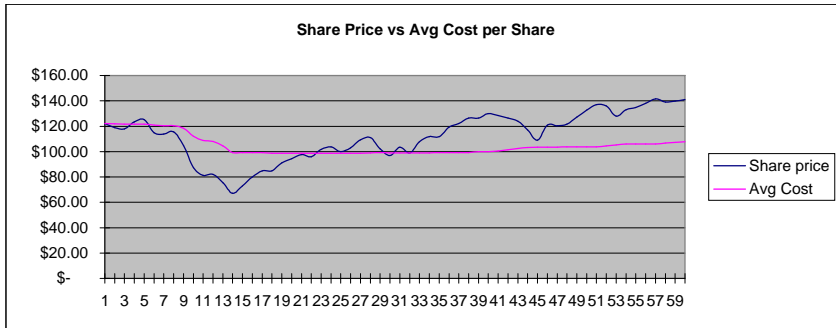
50.00%
46.00%

Cash allocated
Growth rate

\$ 100,000
8.00%

DATE	NAV \$		Shares Bought or Sold	Share Balance	Cost of Shares	Adjusted Cost Base	Proceeds on Sale	Capital Gain or Loss*	Average cost per Share
1	02-Jan-08	\$ 122.02	purchase	204.884	204.884	\$ 25,000.00	\$ 25,000.00	\$ -	\$ 122.02
2	01-Feb-08	\$ 118.86	purchase	17.544	222.4285	\$ 2,085.29	\$ 27,085.29	\$ -	\$ 121.77
3	03-Mar-08	\$ 117.80	purchase	14.289	236.7172	\$ 1,683.21	\$ 28,768.50	\$ -	\$ 121.53
4	01-Apr-08	\$ 123.42	purchase	1.027	237.7441	\$ 126.74	\$ 28,895.24	\$ -	\$ 121.54
5	01-May-08	\$ 125.28	purchase	8.178	245.9226	\$ 1,024.60	\$ 29,919.84	\$ -	\$ 121.66
6	02-Jun-08	\$ 114.81	purchase	35.288	281.2104	\$ 4,051.39	\$ 33,971.23	\$ -	\$ 120.80
7	01-Jul-08	\$ 113.78	purchase	15.610	296.8201	\$ 1,776.07	\$ 35,747.30	\$ -	\$ 120.43
8	01-Aug-08	\$ 115.54	purchase	8.429	305.2495	\$ 973.93	\$ 36,721.23	\$ -	\$ 120.30
9	02-Sep-08	\$ 104.66	purchase	46.125	351.3743	\$ 4,827.42	\$ 41,548.65	\$ -	\$ 118.25
10	01-Oct-08	\$ 87.37	purchase	86.890	438.2647	\$ 7,591.61	\$ 49,140.27	\$ -	\$ 112.12
11	03-Nov-08	\$ 81.29	purchase	51.558	489.8222	\$ 4,191.11	\$ 53,331.38	\$ -	\$ 108.88
12	01-Dec-08	\$ 82.08	purchase	14.007	503.8290	\$ 1,149.68	\$ 54,481.06	\$ -	\$ 108.13
13	02-Jan-09	\$ 75.34	purchase	65.605	569.4341	\$ 4,942.69	\$ 59,423.74	\$ -	\$ 104.36
14	02-Feb-09	\$ 67.25	purchase	91.657	661.0908	\$ 6,163.92	\$ 65,587.66	\$ -	\$ 99.21
15	02-Mar-09	\$ 72.85	sell	-	661.0908	\$ -	\$ 65,587.66	\$ -	\$ 99.21
16	01-Apr-09	\$ 80.09	sell	(66.710)	594.3808	\$ (6,618.38)	\$ 58,969.28	\$ 5,342.80	\$ (1,275.58)
17	01-May-09	\$ 84.77	sell	(14.075)	580.3056	\$ (1,396.42)	\$ 57,572.86	\$ 1,193.16	\$ (203.26)
18	01-Jun-09	\$ 84.71	purchase	19.289	599.5944	\$ 1,633.95	\$ 59,206.81	\$ -	\$ 98.74
19	01-Jul-09	\$ 91.03	sell	-	599.5944	\$ -	\$ 59,206.81	\$ -	\$ 98.74
20	03-Aug-09	\$ 94.40	sell	(27.328)	572.2666	\$ (2,698.48)	\$ 56,508.33	\$ 2,579.74	\$ (118.73)
21	01-Sep-09	\$ 97.74	sell	(2.865)	569.4015	\$ (282.92)	\$ 56,225.42	\$ 280.04	\$ (2.88)
22	01-Oct-09	\$ 95.86	purchase	28.298	597.6999	\$ 2,712.68	\$ 58,938.10	\$ -	\$ 98.61
23	02-Nov-09	\$ 101.77	sell	-	597.6999	\$ -	\$ 58,938.10	\$ -	\$ 98.61
24	01-Dec-09	\$ 103.71	sell	(13.254)	584.4455	\$ (1,306.99)	\$ 57,631.11	\$ 1,374.61	\$ 67.62
25	04-Jan-10	\$ 99.94	purchase	38.810	623.2551	\$ 3,878.63	\$ 61,509.74	\$ -	\$ 98.69
26	01-Feb-10	\$ 103.06	sell	-	623.2551	\$ -	\$ 61,509.74	\$ -	\$ 98.69
27	01-Mar-10	\$ 109.34	sell	(22.631)	600.6241	\$ (2,233.48)	\$ 59,276.26	\$ 2,474.47	\$ 240.99
28	01-Apr-10	\$ 111.03	purchase	6.250	606.8742	\$ 693.95	\$ 59,970.21	\$ -	\$ 98.82
29	03-May-10	\$ 102.21	purchase	69.201	676.0751	\$ 7,073.03	\$ 67,043.24	\$ -	\$ 99.17
30	01-Jun-10	\$ 96.92	purchase	54.770	730.8450	\$ 5,308.30	\$ 72,351.54	\$ -	\$ 99.00
31	01-Jul-10	\$ 103.54	sell	-	730.8450	\$ -	\$ 72,351.54	\$ -	\$ 99.00
32	02-Aug-10	\$ 98.88	purchase	20.894	751.7389	\$ 2,065.99	\$ 74,417.52	\$ -	\$ 98.99
33	01-Sep-10	\$ 107.74	sell	-	751.7389	\$ -	\$ 74,417.52	\$ -	\$ 98.99
34	01-Oct-10	\$ 111.85	sell	(55.474)	696.2645	\$ (5,491.62)	\$ 68,925.90	\$ 6,204.81	\$ 713.19
35	01-Nov-10	\$ 111.85	purchase	16.007	712.2714	\$ 1,790.37	\$ 70,716.27	\$ -	\$ 99.28
36	01-Dec-10	\$ 119.33	sell	-	712.2714	\$ -	\$ 70,716.27	\$ -	\$ 99.28
37	03-Jan-11	\$ 122.11	sell	(30.229)	682.0422	\$ (3,001.23)	\$ 67,715.04	\$ 3,691.28	\$ 690.05
38	01-Feb-11	\$ 126.35	sell	(8.432)	673.6098	\$ (837.20)	\$ 66,877.83	\$ 1,065.44	\$ 228.24
39	01-Mar-11	\$ 126.37	purchase	14.443	688.0524	\$ 1,825.12	\$ 68,702.95	\$ -	\$ 99.85
40	01-Apr-11	\$ 130.03	sell	-	688.0524	\$ -	\$ 68,702.95	\$ -	\$ 99.85
41	02-May-11	\$ 128.57	purchase	17.114	705.1662	\$ 2,200.32	\$ 70,903.27	\$ -	\$ 100.55
42	01-Jun-11	\$ 126.40	purchase	26.945	732.1110	\$ 3,405.82	\$ 74,309.09	\$ -	\$ 101.50
43	01-Jul-11	\$ 123.87	purchase	30.196	762.3067	\$ 3,740.35	\$ 78,049.44	\$ -	\$ 102.39
44	01-Aug-11	\$ 117.06	purchase	47.604	809.9110	\$ 5,572.55	\$ 83,621.99	\$ -	\$ 103.25
45	01-Sep-11	\$ 108.93	purchase	38.368	848.2788	\$ 4,179.41	\$ 87,801.40	\$ -	\$ 103.51
46	03-Oct-11	\$ 120.82	sell	-	848.2788	\$ -	\$ 87,801.40	\$ -	\$ 103.51
47	01-Nov-11	\$ 120.33	purchase	0.272	848.5507	\$ 32.71	\$ 87,834.11	\$ -	\$ 103.51
48	01-Dec-11	\$ 121.59	purchase	7.260	855.8105	\$ 882.72	\$ 88,716.83	\$ -	\$ 103.66
49	03-Jan-12	\$ 127.23	sell	-	855.8105	\$ -	\$ 88,716.83	\$ -	\$ 103.66
50	01-Feb-12	\$ 132.75	sell	(42.244)	813.5661	\$ (4,379.22)	\$ 84,337.61	\$ 5,607.93	\$ 1,228.71
51	01-Mar-12	\$ 137.02	sell	(10.821)	802.7448	\$ (1,121.78)	\$ 83,215.83	\$ 1,482.73	\$ 360.95
52	02-Apr-12	\$ 136.11	purchase	20.094	822.8386	\$ 2,734.96	\$ 85,950.80	\$ -	\$ 104.46
53	01-May-12	\$ 127.93	purchase	31.225	854.0637	\$ 3,994.63	\$ 89,945.43	\$ -	\$ 105.31
54	01-Jun-12	\$ 133.12	purchase	17.674	871.7374	\$ 2,352.71	\$ 92,298.14	\$ -	\$ 105.88
55	02-Jul-12	\$ 134.70	purchase	4.955	876.6927	\$ 667.48	\$ 92,965.62	\$ -	\$ 106.04
56	01-Aug-12	\$ 138.07	sell	-	876.6927	\$ -	\$ 92,965.62	\$ -	\$ 106.04
57	04-Sep-12	\$ 141.57	sell	(13.366)	863.3265	\$ (1,417.36)	\$ 91,548.26	\$ 1,892.24	\$ 474.88
58	01-Oct-12	\$ 139.00	purchase	19.525	882.8516	\$ 2,713.98	\$ 94,262.24	\$ -	\$ 106.77
59	01-Nov-12	\$ 139.78	purchase	14.562	897.4137	\$ 2,035.49	\$ 96,297.73	\$ -	\$ 107.31
60	03-Dec-12	\$ 141.03	purchase	10.825	908.2384	\$ 1,526.62	\$ 97,824.34	\$ -	\$ 107.71

Total Proceeds	\$ 33,189.27
Capital Gain/Loss	\$ 2,404.19
Taxable gain	\$ 1,202.09
Tax payable	\$ 552.96
Net Gain	\$ 1,851.23
Net Proceeds	\$ 32,636.31



* Average Cost Method