

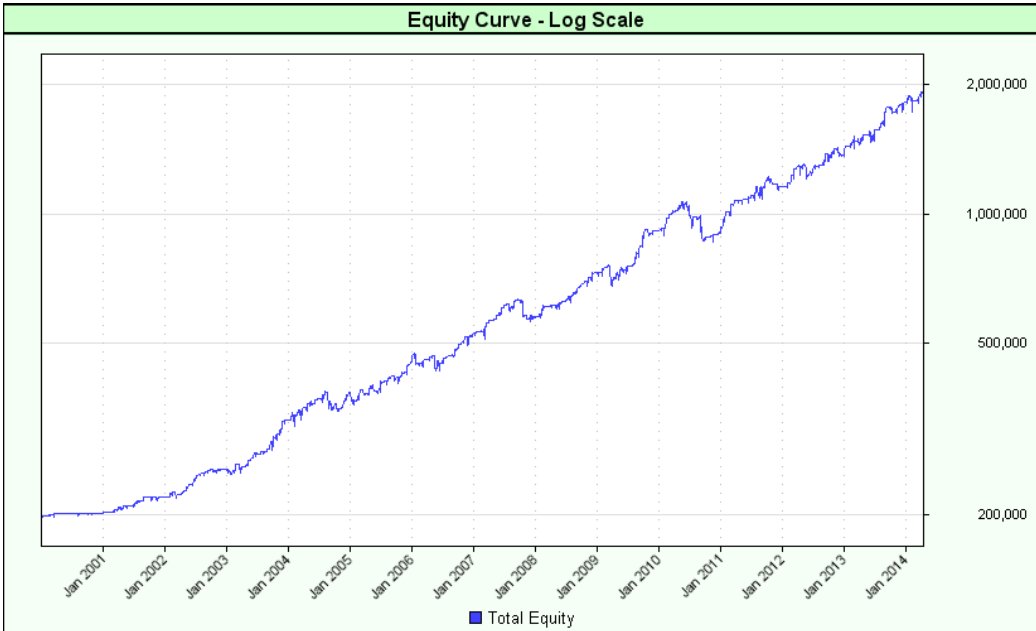


Summary Test Results

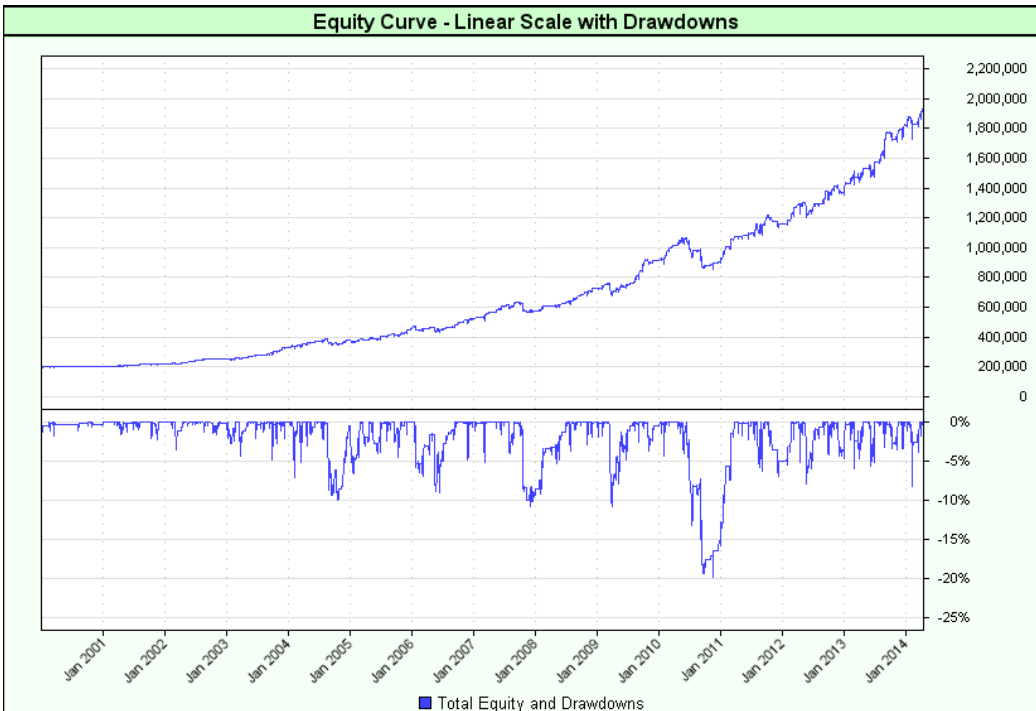
Stepped Parameter Summary Performance

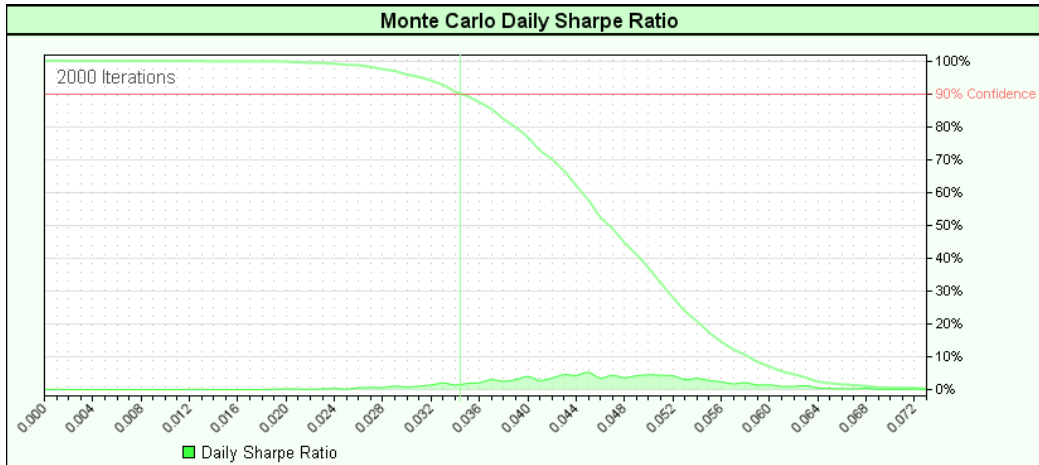
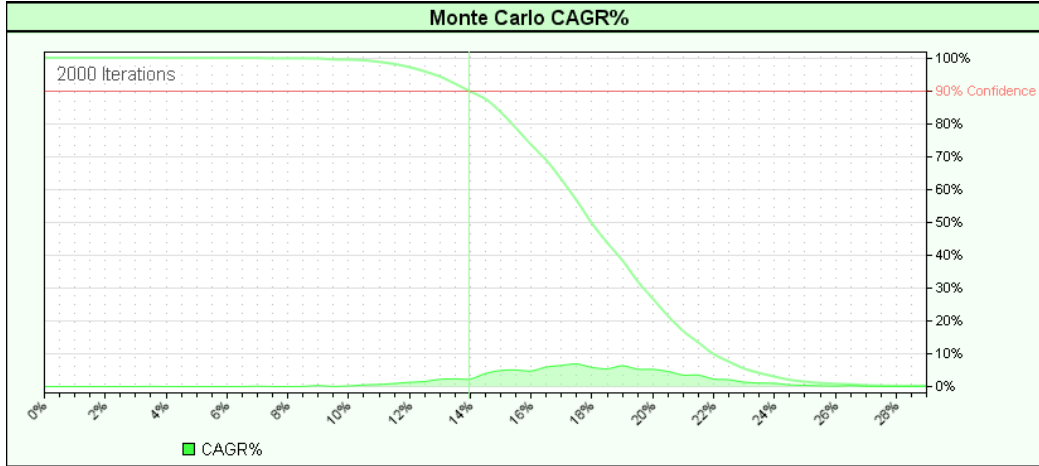
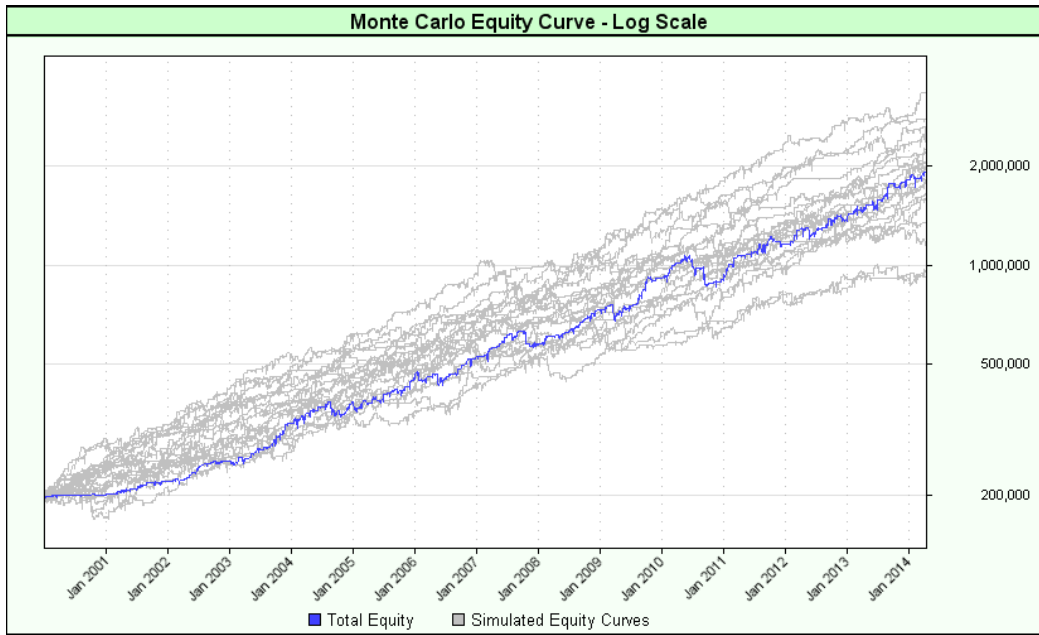
Test	Ending Balance	CAGR%	MAR	Modified Sharpe	Annual Sharpe	Max Total Equity DD	Longest Drawdown	# Trades
1	1,929,666.69	17.22%	0.87	1.54	1.35	19.9%	9.4	1,268

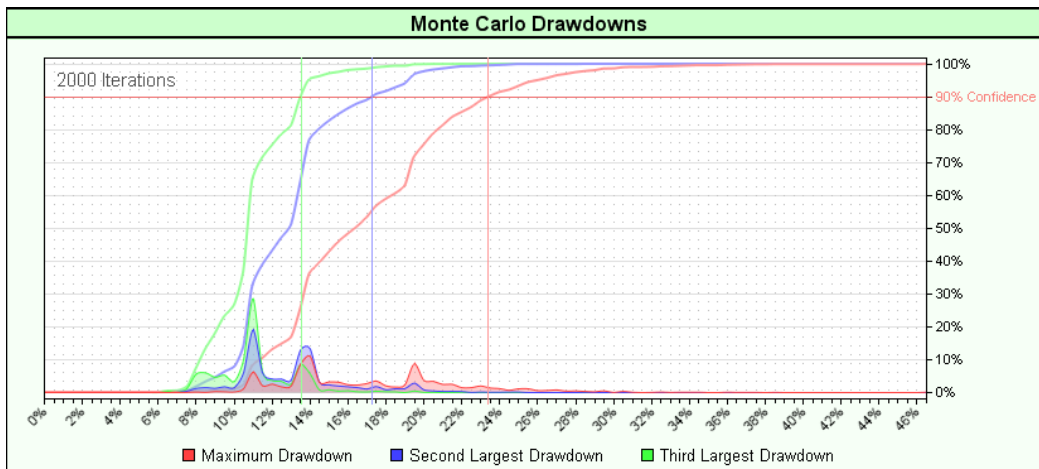
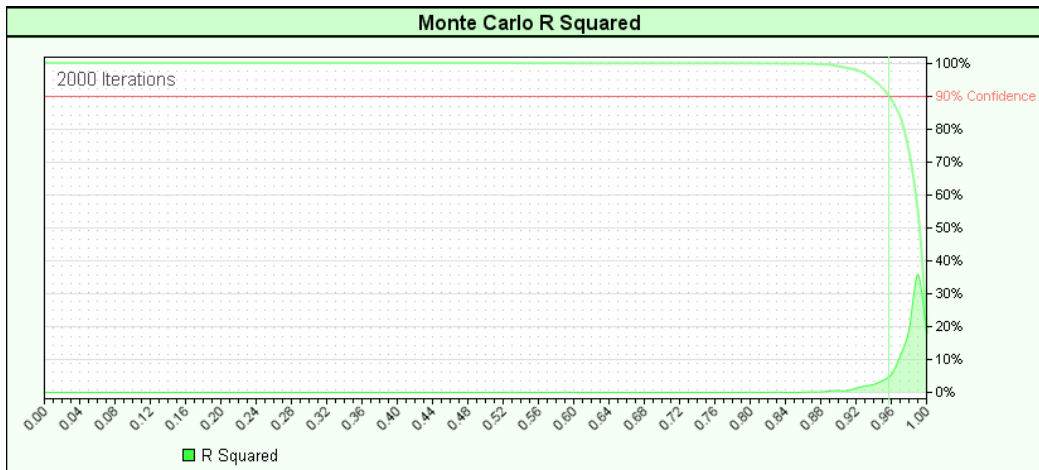
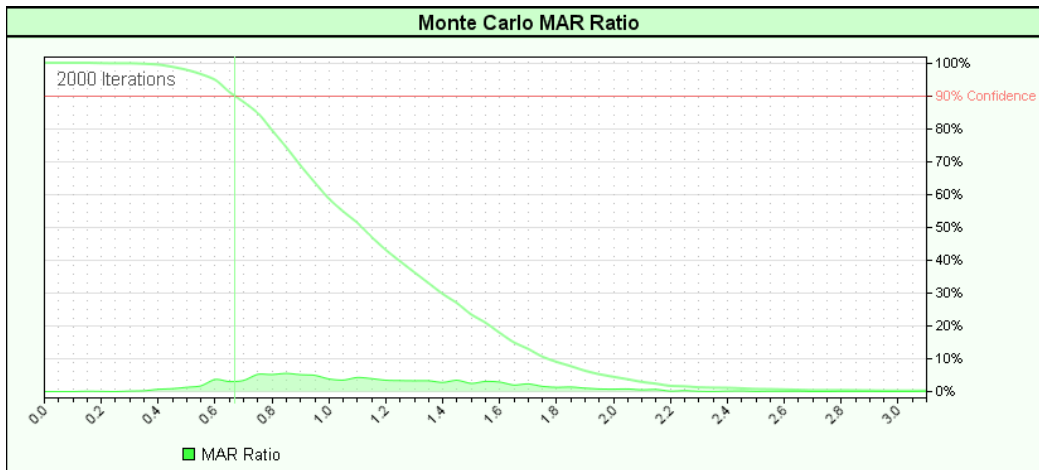
Equity Curve - Log Scale

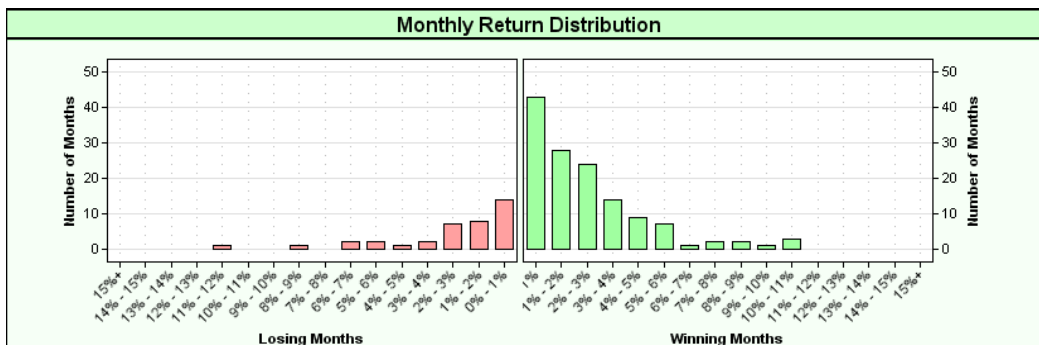
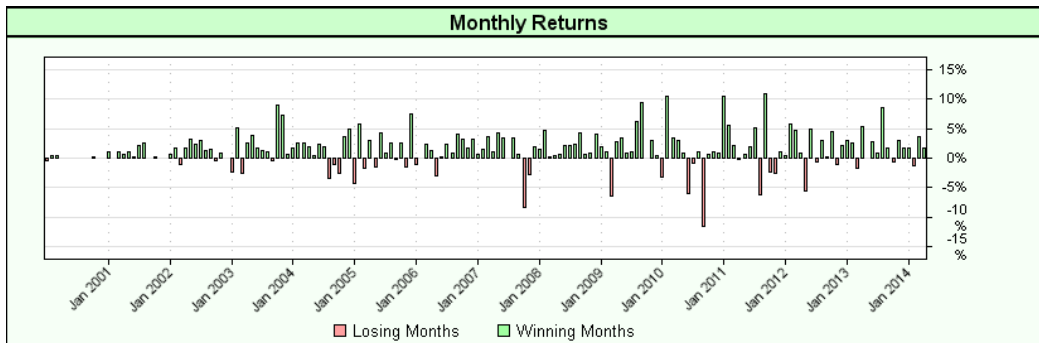
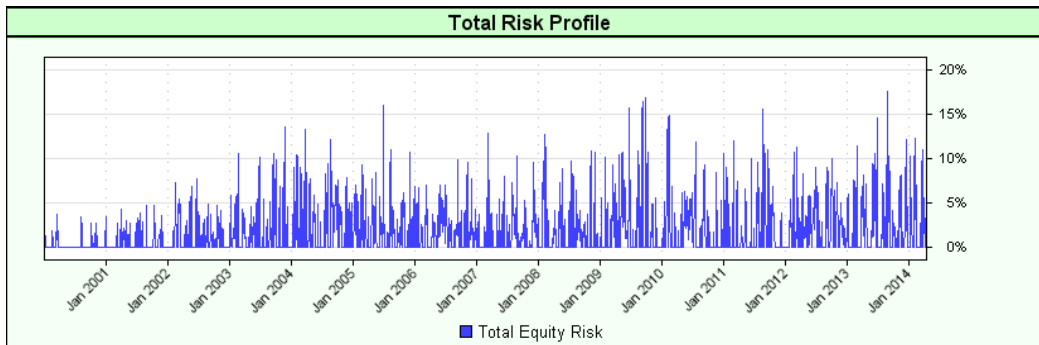
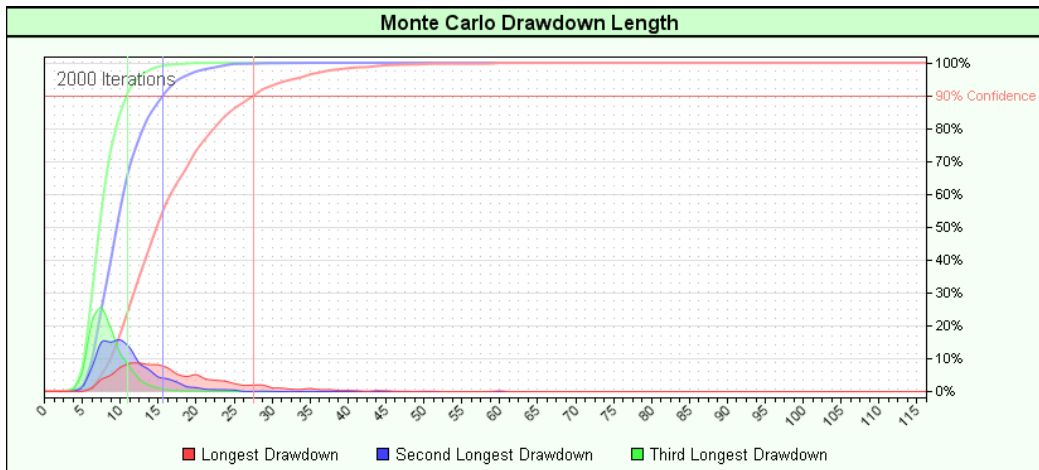


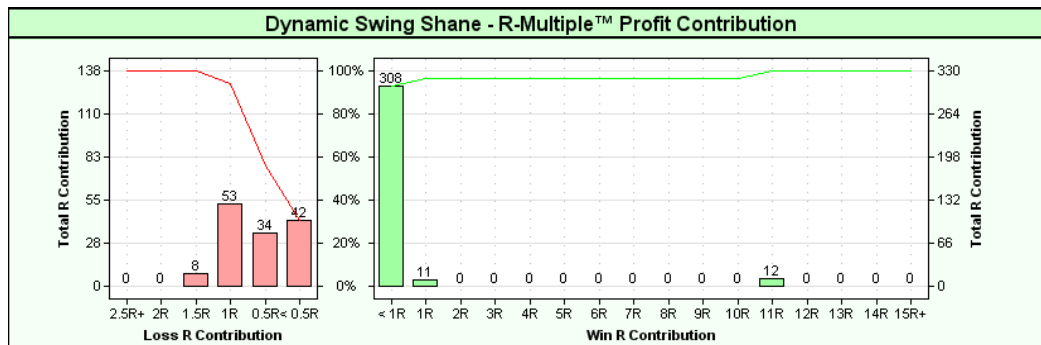
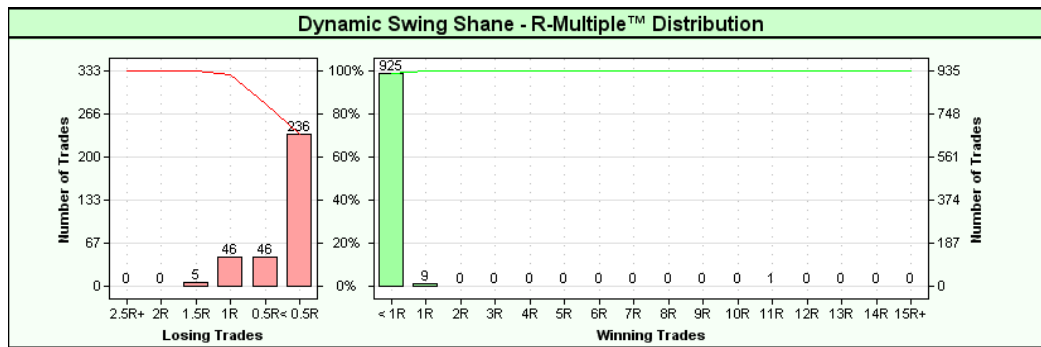
Equity Curve - Linear Scale with Drawdowns











Yearly Performance Summary

Year	Days	Closed Balance	End Total Equity	Total Equity Gain	Gain %	# Trades
2000	364	201,067.21	201,023.12	1,023.12	0.5%	15
2001	365	220,296.13	220,296.13	19,273.01	9.6%	35
2002	365	255,260.83	255,260.83	34,964.70	15.9%	63
2003	365	332,465.19	332,465.19	77,204.36	30.2%	99
2004	366	384,745.35	384,745.35	52,280.16	15.7%	120
2005	365	453,386.54	453,386.54	68,641.18	17.8%	108
2006	365	527,398.69	527,398.69	74,012.15	16.3%	87
2007	365	572,708.53	574,706.95	47,308.26	9.0%	83
2008	366	730,290.20	728,452.70	153,745.75	26.8%	99
2009	365	916,763.72	916,763.72	188,311.02	25.9%	125
2010	365	908,658.29	900,903.85	-15,859.87	-1.7%	104
2011	365	1,159,751.82	1,159,751.82	258,847.97	28.7%	98
2012	366	1,377,782.80	1,394,756.08	235,004.26	20.3%	91
2013	365	1,822,843.69	1,822,843.69	428,087.61	30.7%	109
2014	101	1,929,666.69	1,929,666.69	106,822.99	5.9%	32

Instrument Performance Summary

Symbol	Wins	% Wins	Losses	% Losses	Trades	Win Months	% Win Months	Loss Months	% Loss Months	Avg. Win %	Avg. Loss %	Avg. Trade %	% Profit Factor
ES	210	76.4%	65	23.6%	275	141	82.0%	31	18.0%	0.45%	0.55%	0.22%	2.67
FCH	154	76.2%	48	23.8%	202	147	85.5%	25	14.5%	0.48%	0.39%	0.28%	4.00
NQ	217	70.7%	90	29.3%	307	140	81.4%	32	18.6%	0.45%	0.50%	0.17%	2.19
SXE	181	75.7%	58	24.3%	239	143	83.1%	29	16.9%	0.43%	0.58%	0.18%	2.31
TF	173	70.6%	72	29.4%	245	137	79.7%	35	20.3%	0.40%	0.64%	0.10%	1.51

Test Period for parameter run 1.

First Test Date: 2000-01-03
 Last Test Date: 2014-04-11

Trading Performance

CAGR %: 17.22%
 MAR Ratio: 0.87
 RAR %: 17.95%
 R-Cubed: 3.11
 Robust Sharpe Ratio: 1.67
 Margin to Equity Ratio: 4.71%
 Daily Return %: 0.0640%
 Daily Geometric Return %: 0.0435%

Win/Loss Statistics

Wins	935	73.7%
Losses	333	26.3%
Total	1268	100.0%
Winning Months	134	77.9%
Losing Months	38	22.1%
Total	172	100.0%
Average Risk Percent		1.31%

Daily Standard Deviation %	0.79%	Average Win Percent	0.44%
Daily Downside Deviation %	0.77%	Average Loss Percent	0.54%
Daily Sharpe	0.070	Average Win Dollars	3,381.75
Daily Geo Sharpe	0.045	Average Loss Dollars	4,301.12
Daily Sortino	0.072	Average Trade Percent	0.19%
Modified Sharpe Ratio	1.54	Average Trade Duration	5.87
Annual Sharpe Ratio	1.35	Average Trade Dollars	1,364.09
Annual Sortino Ratio	+ ∞	Profit Factor	2.21
Monthly Sharpe Ratio	0.36	Percent Profit Factor	2.32
Monthly Sortino Ratio	0.44	Expectation	0.14
Calmar Ratio	1.02		
R-Squared	0.992		

Equity Management

Maximum Total Equity Drawdown %	19.87%	Test Starting Equity	200,000.00
Longest Total Equity Drawdown (months)	9.43	Order Generation Equity	0.00
Average Max TE Drawdown %	12.12%	Order Generation Equity High	0.00
Average Max TE Drawdown Length (months)	8.00	Leverage (fraction)	1.00
Maximum Monthly Total Equity Drawdown %	16.80%	Trading Equity Base	Total Equity
Maximum Monthly Closed Equity Drawdown %	16.69%	Drawdown Reduction Threshold (%)	0.00%
Maximum Closed Equity Drawdown %	19.34%	Drawdown Reduction Amount (%)	0.00%
Average Closed Equity Drawdown %	1.84%		

Global Simulation Parameters

Round Turns Per Million	616	Earn Interest	FALSE
Round Turns	6,362	Earn Dividends	TRUE
Total Trades	1,268	Pay Margin on Stocks	TRUE
Start Account Balance	200,000.00	Commission per Stock Trade	0.00
Total Win Dollars	3,161,940.07	Commission per Stock Share	0.01
Total Loss Dollars	1,432,273.38	Commission per Contract	10.00
Total Profit	1,729,666.69	Commission by Stock Value (%)	0.00%
Earned Interest	0.00	Slippage Percent	5.00%
Margin Interest	0.00	Minimum Slippage	10.00
End Account Balance	1,929,666.69	Forex Trade Size	1,000.00
End Open Equity	0.00	Account for Forex Carry	TRUE
End Total Equity	1,929,666.69	Use Pip Based Slippage	FALSE
Highest Total Equity	1,937,346.69	Account for Contract Rolls	TRUE
Highest Closed Equity	1,935,906.69	Roll Slippage in % of ATR	5.00%
Total Commissions	63,620.00	Minimum Stock Volume	10,000
Commission per Round Turn	10.00	Minimum Futures Volume	0
Total Slippage	325,449.60	Max Percent Volume Per Trade	0.00%
Slippage per Round Turn	51.16	Entry Day Retracement	0.00%
Total Forex Carry	0.00	Max Margin Equity	100.00%
Total Dividends	0.00	Trade on Lock Days	FALSE
Total Other Expenses	0.00	Convert Profit by Stock Split	TRUE
		Trade Always on Tick	TRUE
		Smart Fill Exit	TRUE
		Use Start Date Stepping	FALSE
		Use Broker Positions	FALSE

Preferences

Risk Free Rate	3.00%
Load Volume	TRUE
Load Unadjusted Close	TRUE
Raise Negative Data	FALSE
Process Weekly Bars	TRUE
Process Monthly Bars	TRUE
Process Daily Bars	TRUE
Process Weekends	TRUE
Additional Years of Data	5.00

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Disclaimer

Hypothetical performance results have many inherent limitations, some of which are described below. No representation is being made that any account will or is likely to achieve profits or losses similar to those shown. In fact, there are frequently sharp differences between hypothetical performance results and the actual results subsequently achieved by any particular trading program.

One of the limitations of hypothetical performance results is that they are generally prepared with the benefit of hindsight. In addition, hypothetical trading does not involve financial risk, and no hypothetical trading record can completely account for the impact of financial risk in actual trading. For example, the ability to withstand losses or to adhere to a particular trading program in spite of trading losses are material points which can also adversely affect actual trading results. There are numerous other factors related to the markets in general or to the implementation of any specific trading program which cannot be fully accounted for in the preparation of hypothetical performance results and all of which can adversely affect actual trading results.