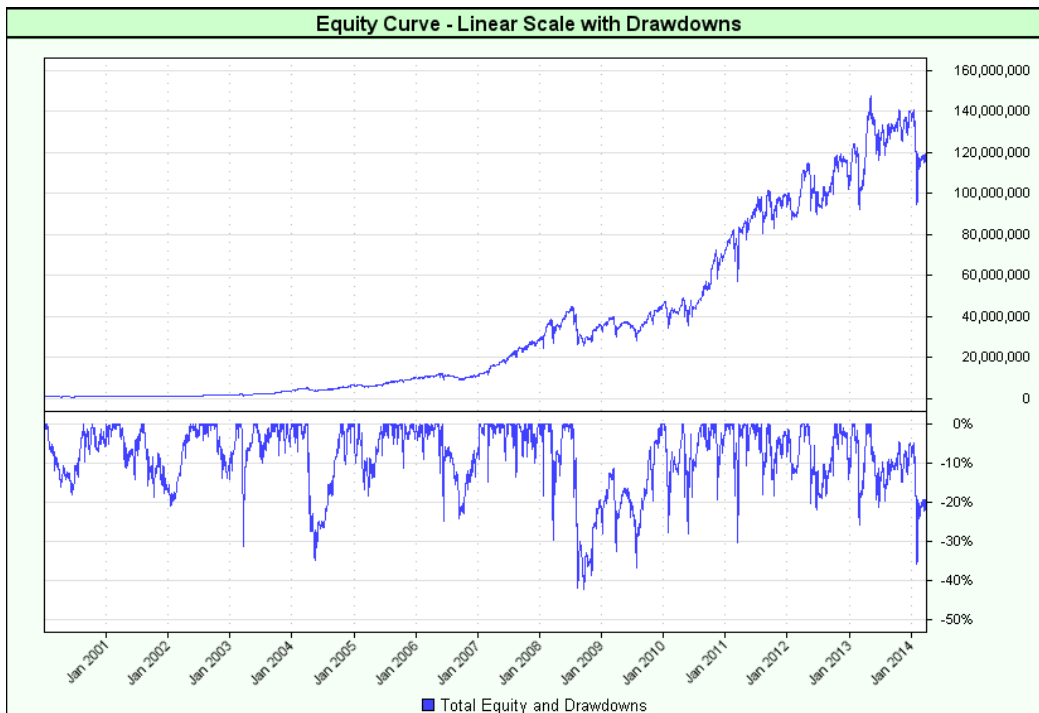
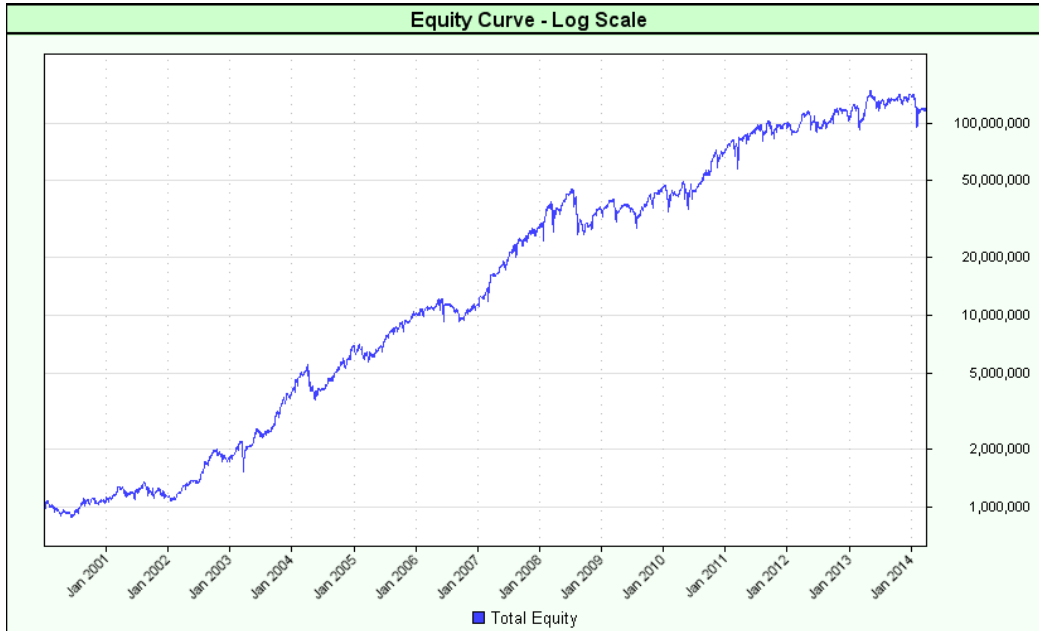


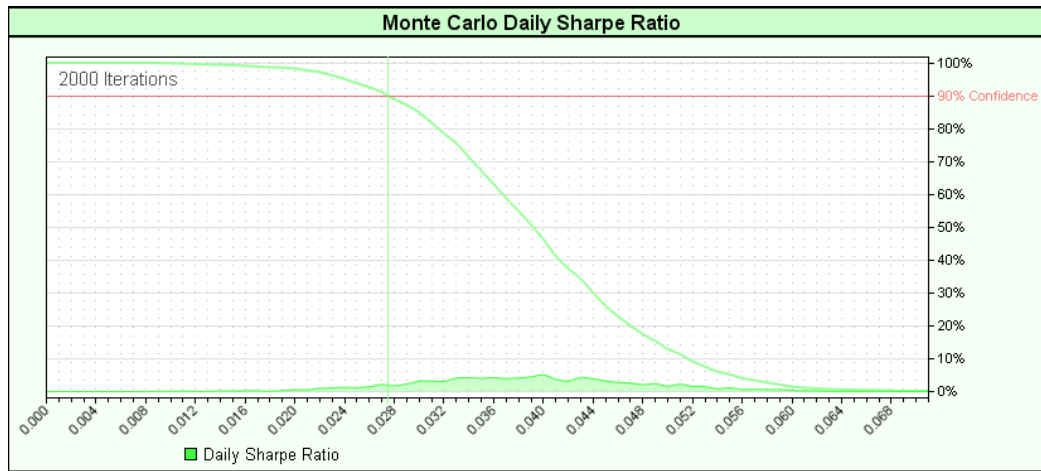
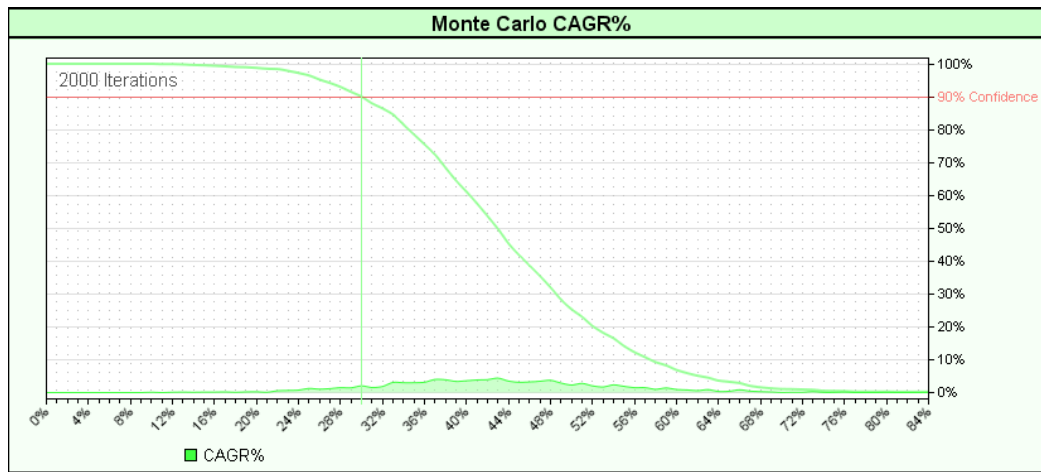
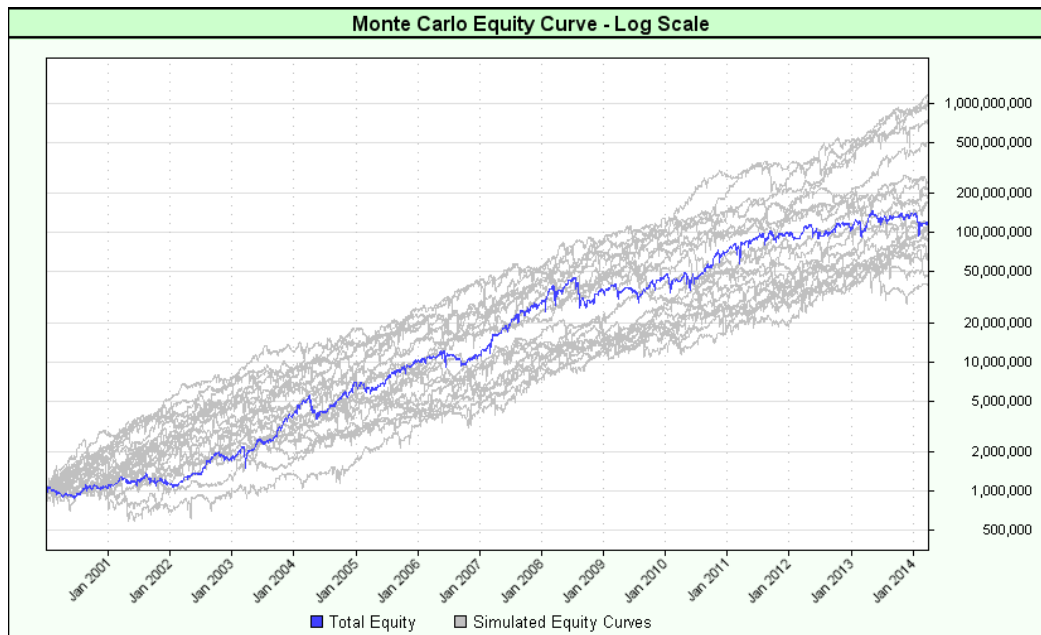


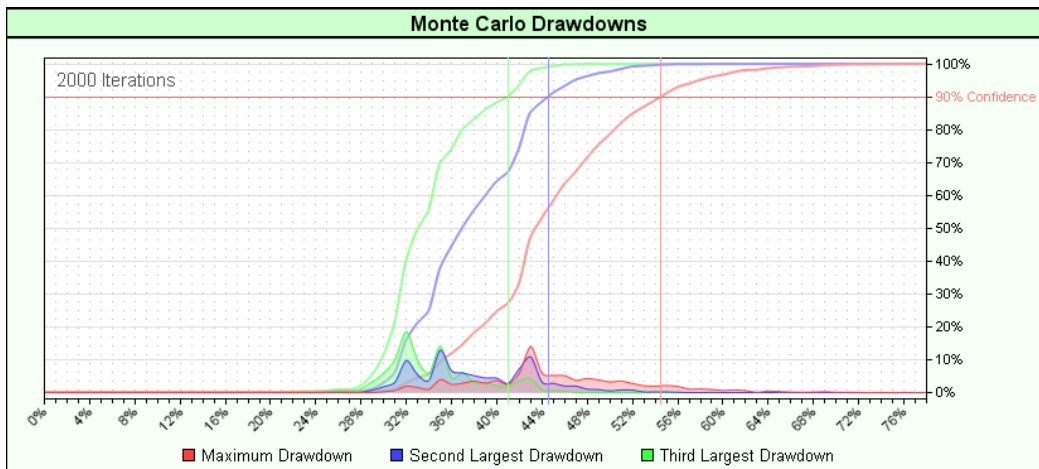
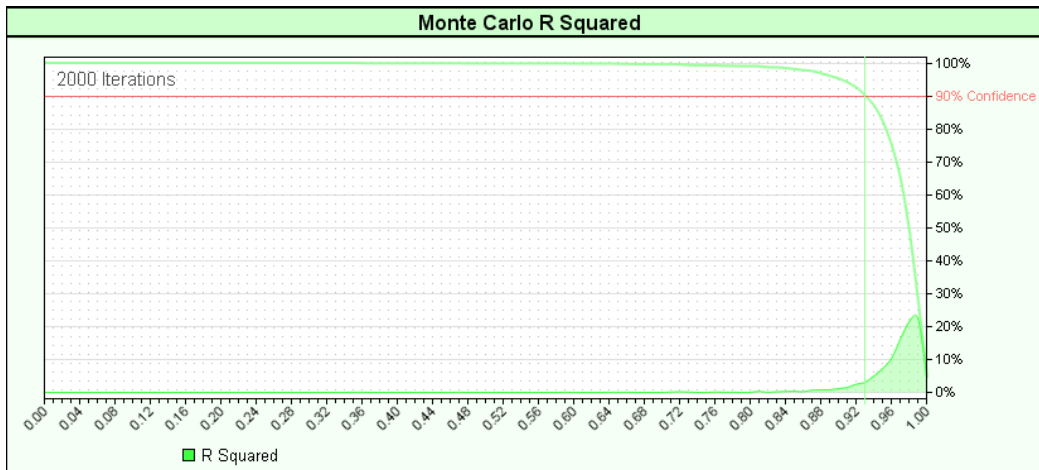
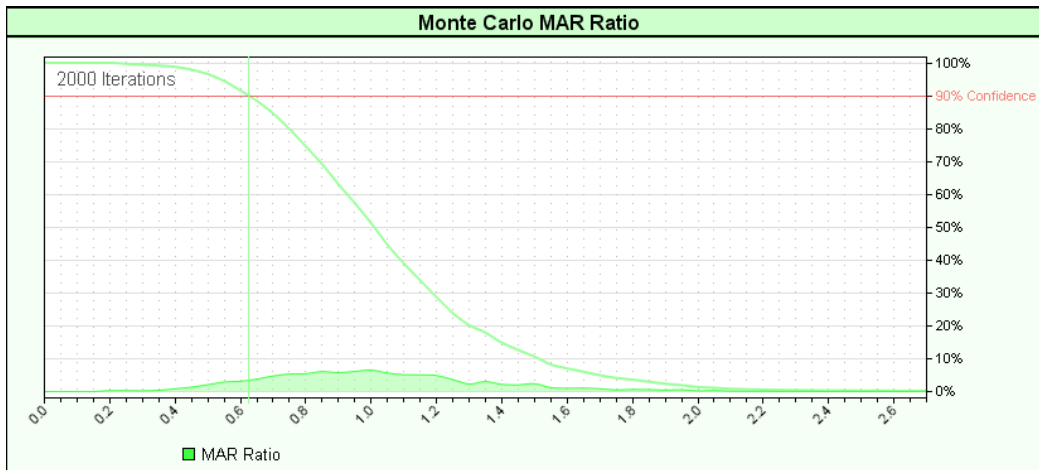
Summary Test Results

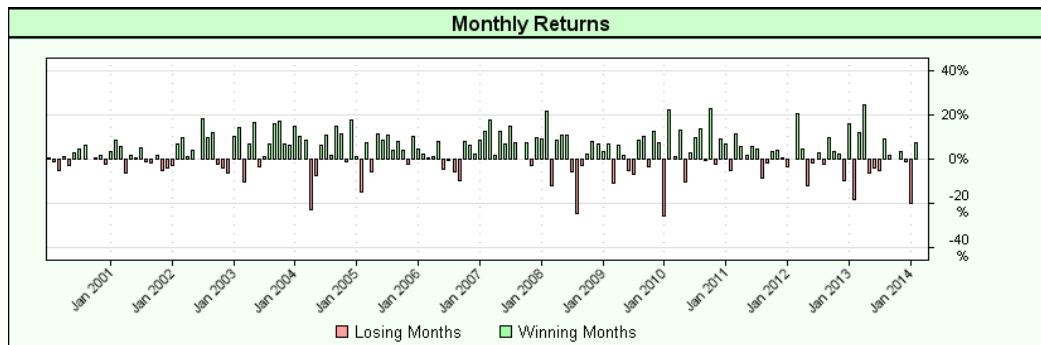
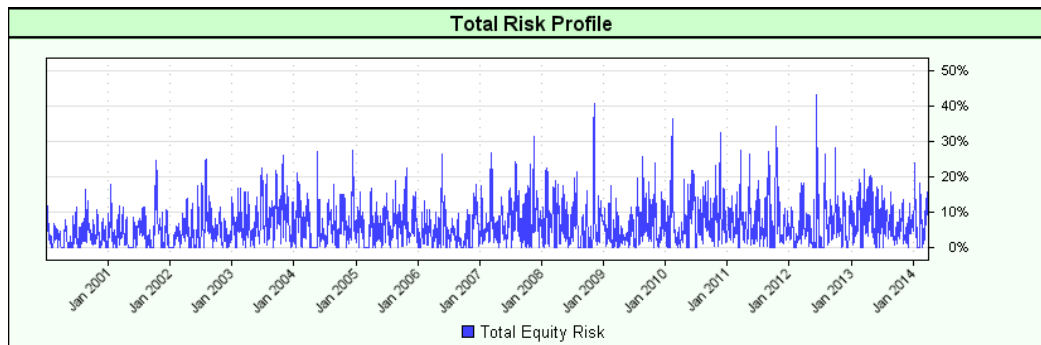
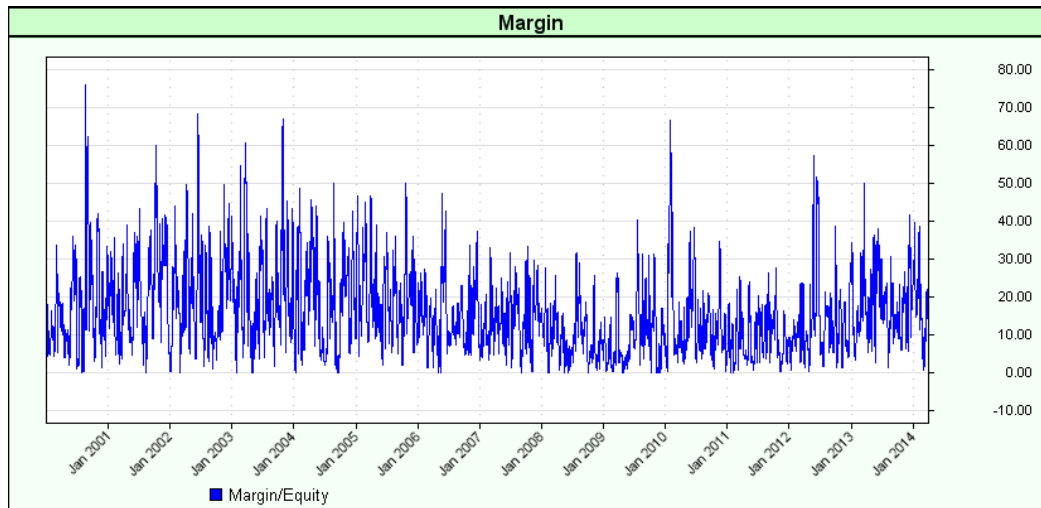
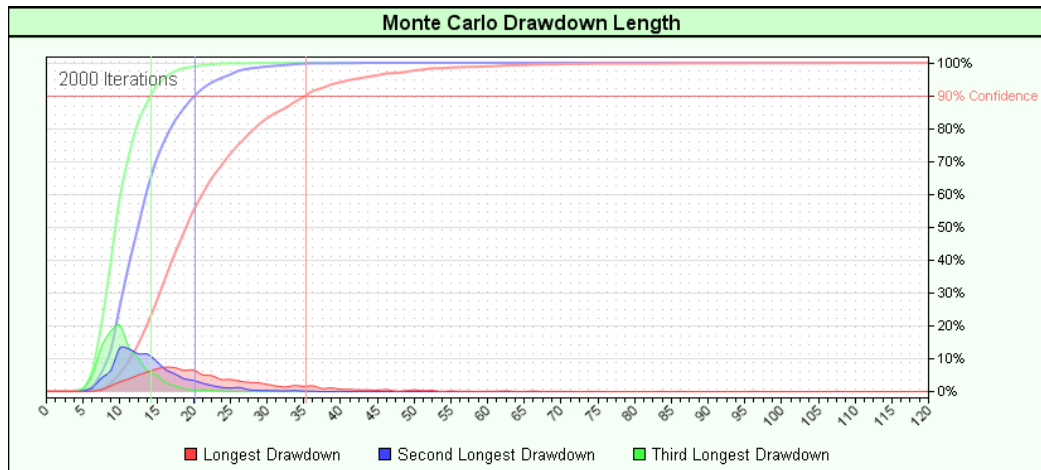
Stepped Parameter Summary Performance

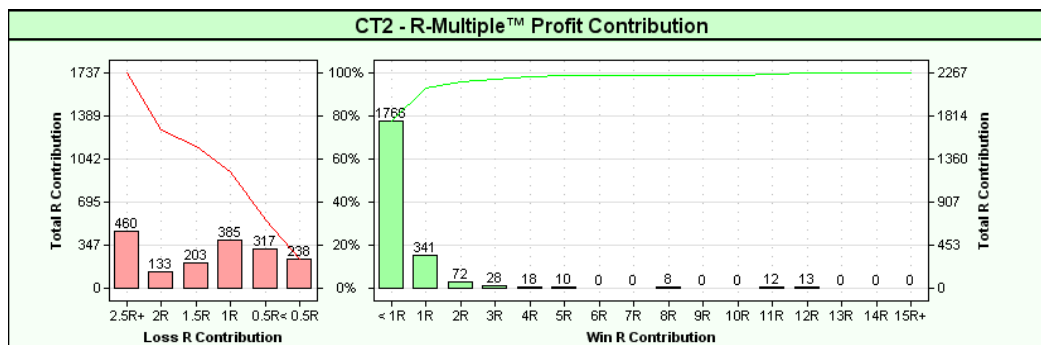
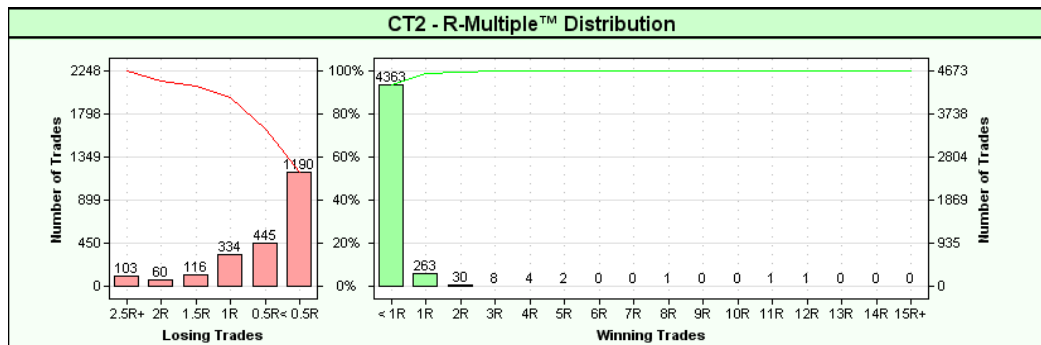
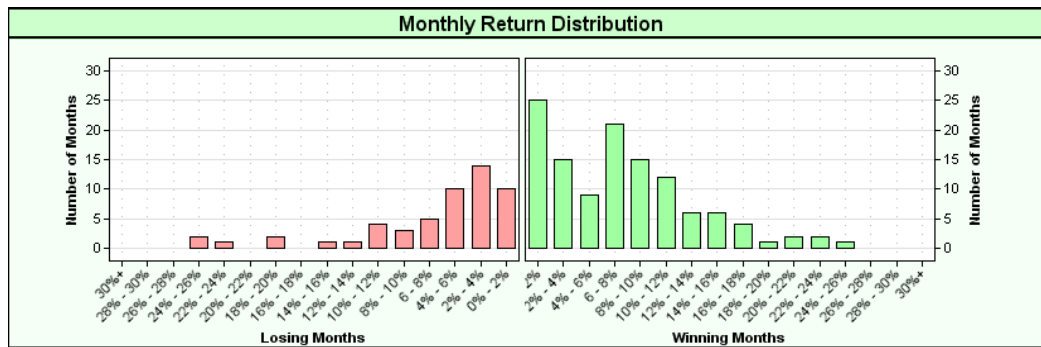
Test	Ending Balance	CAGR%	MAR	Modified Sharpe	Annual Sharpe	Max Total Equity DD	Longest Drawdown	# Trades	Avg Margin/Equity
1	117,195,964.98	39.72%	0.94	1.27	0.81	42.2%	17.2	6,921	0.16











Yearly Performance Summary

Year	Days	Closed Balance	End Total Equity	Total Equity Gain	Gain %	# Trades
2000	364	1,072,790.23	1,053,708.95	53,708.95	5.4%	330
2001	365	1,184,274.62	1,132,784.72	79,075.77	7.5%	414
2002	365	1,823,534.14	1,729,659.91	596,875.19	52.7%	363
2003	365	4,078,215.24	3,947,056.61	2,217,396.70	128.2%	529
2004	366	7,024,271.57	6,901,646.86	2,954,590.25	74.9%	501
2005	365	10,372,628.68	10,155,158.68	3,253,511.82	47.1%	483
2006	365	11,453,660.20	11,267,255.06	1,112,096.39	11.0%	414
2007	365	29,693,960.20	28,120,911.86	16,853,656.80	149.6%	515
2008	366	37,136,716.25	35,266,106.69	7,145,194.83	25.4%	580
2009	365	46,470,829.17	46,413,957.01	11,147,850.32	31.6%	417
2010	365	72,018,543.15	72,494,285.11	26,080,328.10	56.2%	625
2011	365	100,984,463.97	94,572,759.40	22,078,474.29	30.5%	537
2012	366	115,538,733.41	105,684,282.08	11,111,522.69	11.7%	458
2013	365	144,387,966.56	135,576,363.85	29,892,081.77	28.3%	609
2014	91	117,195,964.98	117,195,964.98	-18,380,398.87	-13.6%	146

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
AD	42	63.6%	24	36.4%	66	144	83.7%	28	16.3%	0.33%	0.82%	-0.08%	0.72
AEX	51	72.9%	19	27.1%	70	148	86.0%	24	14.0%	0.48%	0.59%	0.19%	2.19
ALS	42	62.7%	25	37.3%	67	142	82.6%	30	17.4%	0.54%	0.48%	0.16%	1.88
BL2	49	61.3%	31	38.8%	80	138	80.2%	34	19.8%	0.46%	0.77%	-0.01%	0.95
BO2	36	72.0%	14	28.0%	50	155	90.1%	17	9.9%	0.40%	0.70%	0.09%	1.48
BP	42	63.6%	24	36.4%	66	145	84.3%	27	15.7%	0.41%	0.69%	0.01%	1.02

C2	39	61.9%	24	38.1%	63	142	82.6%	30	17.4%	0.43%	0.72%	-0.01%	0.98
CC2	37	63.8%	21	36.2%	58	145	84.3%	27	15.7%	0.45%	0.84%	-0.02%	0.94
CD	37	67.3%	18	32.7%	55	150	87.2%	22	12.8%	0.44%	0.35%	0.18%	2.59
CGB	58	70.7%	24	29.3%	82	145	84.3%	27	15.7%	0.43%	0.58%	0.13%	1.77
CL2	59	77.6%	17	22.4%	76	146	84.9%	26	15.1%	0.43%	0.53%	0.21%	2.78
CON	42	60.0%	28	40.0%	70	132	76.7%	40	23.3%	0.43%	1.10%	-0.18%	0.59
CT2	38	54.3%	32	45.7%	70	145	84.3%	27	15.7%	0.47%	0.77%	-0.09%	0.73
CU	47	65.3%	25	34.7%	72	142	82.6%	30	17.4%	0.40%	0.47%	0.10%	1.60
DA	53	62.4%	32	37.6%	85	142	82.6%	30	17.4%	0.47%	0.78%	0.00%	1.00
DA2	59	69.4%	26	30.6%	85	142	82.6%	30	17.4%	0.54%	0.83%	0.12%	1.49
DX2	34	68.0%	16	32.0%	50	153	89.0%	19	11.0%	0.44%	0.40%	0.17%	2.34
EBL	54	67.5%	26	32.5%	80	143	83.1%	29	16.9%	0.42%	0.77%	0.04%	1.14
EBM	51	65.4%	27	34.6%	78	146	84.9%	26	15.1%	0.41%	0.58%	0.07%	1.35
EBX	31	66.0%	16	34.0%	47	153	89.0%	19	11.0%	0.54%	0.88%	0.06%	1.20
ES	54	80.6%	13	19.4%	67	159	92.4%	13	7.6%	0.47%	0.37%	0.31%	5.26
EX	47	70.1%	20	29.9%	67	146	84.9%	26	15.1%	0.42%	0.46%	0.16%	2.13
FC	52	63.4%	30	36.6%	82	141	82.0%	31	18.0%	0.45%	0.70%	0.03%	1.10
FCH	40	80.0%	10	20.0%	50	160	93.0%	12	7.0%	0.48%	0.48%	0.28%	3.96
FDX	52	78.8%	14	21.2%	66	156	90.7%	16	9.3%	0.40%	0.24%	0.26%	6.09
FFI	34	68.0%	16	32.0%	50	153	89.0%	19	11.0%	0.42%	0.58%	0.10%	1.55
FV	72	78.3%	20	21.7%	92	151	87.8%	21	12.2%	0.45%	0.76%	0.18%	2.12
GC2	51	69.9%	22	30.1%	73	141	82.0%	31	18.0%	0.38%	0.46%	0.13%	1.95
GOC	19	57.6%	14	42.4%	33	152	88.4%	20	11.6%	0.45%	0.40%	0.09%	1.51
HG2	43	74.1%	15	25.9%	58	152	88.4%	20	11.6%	0.47%	0.65%	0.18%	2.07
HMH	33	68.8%	15	31.3%	48	156	90.7%	16	9.3%	0.58%	0.57%	0.22%	2.25
HO2	51	76.1%	16	23.9%	67	148	86.0%	24	14.0%	0.51%	0.76%	0.20%	2.13
HSI	36	65.5%	19	34.5%	55	149	86.6%	23	13.4%	0.56%	0.58%	0.16%	1.81
ICL	29	78.4%	8	21.6%	37	159	92.4%	13	7.6%	0.42%	0.64%	0.19%	2.38
IFM	33	71.7%	13	28.3%	46	157	91.3%	15	8.7%	0.56%	0.51%	0.26%	2.79
IR	44	77.2%	13	22.8%	57	158	91.9%	14	8.1%	0.49%	1.05%	0.14%	1.57
JA4	10	58.8%	7	41.2%	17	162	94.2%	10	5.8%	0.31%	0.61%	-0.07%	0.73
JAC	21	60.0%	14	40.0%	35	158	91.9%	14	8.1%	0.88%	0.92%	0.16%	1.43
JAS	30	61.2%	19	38.8%	49	155	90.1%	17	9.9%	0.51%	0.75%	0.02%	1.08
JAU	28	59.6%	19	40.4%	47	148	86.0%	24	14.0%	0.63%	0.67%	0.10%	1.38
JC2	12	66.7%	6	33.3%	18	164	95.3%	8	4.7%	0.39%	0.83%	-0.02%	0.94
JCR	22	48.9%	23	51.1%	45	147	85.5%	25	14.5%	0.46%	0.64%	-0.11%	0.68
JG4	11	64.7%	6	35.3%	17	165	95.9%	7	4.1%	0.45%	0.56%	0.09%	1.46
JK2	14	70.0%	6	30.0%	20	164	95.3%	8	4.7%	0.42%	0.43%	0.17%	2.30
JP2	11	57.9%	8	42.1%	19	163	94.8%	9	5.2%	0.40%	0.70%	-0.06%	0.79
JP4	11	55.0%	9	45.0%	20	161	93.6%	11	6.4%	0.41%	0.69%	-0.09%	0.72
JP6	11	61.1%	7	38.9%	18	169	98.3%	3	1.7%	0.50%	0.33%	0.18%	2.40
JR2	13	76.5%	4	23.5%	17	166	96.5%	6	3.5%	0.57%	1.46%	0.10%	1.28
JRU	33	58.9%	23	41.1%	56	141	82.0%	31	18.0%	0.68%	1.19%	-0.09%	0.82
JS2	12	80.0%	3	20.0%	15	168	97.7%	4	2.3%	0.30%	1.06%	0.03%	1.12
JS4	4	50.0%	4	50.0%	8	165	95.9%	7	4.1%	0.65%	1.35%	-0.35%	0.48
JT	37	72.5%	14	27.5%	51	153	89.0%	19	11.0%	0.42%	0.51%	0.16%	2.17
JTI	51	77.3%	15	22.7%	66	154	89.5%	18	10.5%	0.49%	0.43%	0.28%	3.85
JY	43	68.3%	20	31.7%	63	145	84.3%	27	15.7%	0.39%	0.61%	0.07%	1.35
KC	39	70.9%	16	29.1%	55	154	89.5%	18	10.5%	0.46%	0.91%	0.06%	1.22
KLI	44	57.9%	32	42.1%	76	137	79.7%	35	20.3%	0.42%	0.62%	-0.02%	0.93
KPO	48	64.9%	26	35.1%	74	140	81.4%	32	18.6%	0.44%	0.93%	-0.04%	0.88
KW	34	61.8%	21	38.2%	55	148	86.0%	24	14.0%	0.44%	0.55%	0.07%	1.32
LB	40	62.5%	24	37.5%	64	138	80.2%	34	19.8%	0.57%	0.93%	0.01%	1.02
LC	40	71.4%	16	28.6%	56	152	88.4%	20	11.6%	0.40%	0.47%	0.15%	2.09
LCC	35	59.3%	24	40.7%	59	144	83.7%	28	16.3%	0.48%	0.74%	-0.02%	0.94
LCO	59	71.1%	24	28.9%	83	141	82.0%	31	18.0%	0.48%	1.17%	0.00%	1.01
LGO	46	71.9%	18	28.1%	64	152	88.4%	20	11.6%	0.47%	0.73%	0.13%	1.65
LH	32	65.3%	17	34.7%	49	150	87.2%	22	12.8%	0.45%	0.64%	0.08%	1.34
LRC	54	69.2%	24	30.8%	78	146	84.9%	26	15.1%	0.47%	0.85%	0.06%	1.24
LSU	54	63.5%	31	36.5%	85	140	81.4%	32	18.6%	0.44%	1.07%	-0.11%	0.72
LWB	45	60.8%	29	39.2%	74	142	82.6%	30	17.4%	0.64%	0.65%	0.13%	1.52
M6A	8	61.5%	5	38.5%	13	167	97.1%	5	2.9%	0.34%	0.73%	-0.07%	0.74
M6B	8	57.1%	6	42.9%	14	165	95.9%	7	4.1%	0.23%	0.74%	-0.19%	0.41
M6E	13	61.9%	8	38.1%	21	162	94.2%	10	5.8%	0.32%	0.63%	-0.04%	0.82
MFX	44	72.1%	17	27.9%	61	155	90.1%	17	9.9%	0.48%	0.71%	0.14%	1.73
MP	47	67.1%	23	32.9%	70	150	87.2%	22	12.8%	0.47%	0.53%	0.14%	1.80
MW	33	58.9%	23	41.1%	56	144	83.7%	28	16.3%	0.47%	0.83%	-0.06%	0.81
MXM2	13	59.1%	9	40.9%	22	162	94.2%	10	5.8%	0.46%	0.47%	0.08%	1.44
ND	46	82.1%	10	17.9%	56	162	94.2%	10	5.8%	0.40%	0.29%	0.28%	6.44

	40	65.6%	21	34.4%	61	149	86.6%	23	13.4%	0.40%	0.82%	-0.02%	0.94
NG2	45	77.6%	13	22.4%	58	155	90.1%	17	9.9%	0.46%	0.75%	0.19%	2.12
NK	42	70.0%	18	30.0%	60	150	87.2%	22	12.8%	0.46%	0.35%	0.22%	3.09
NQ	49	81.7%	11	18.3%	60	162	94.2%	10	5.8%	0.43%	0.36%	0.28%	5.29
O2	49	67.1%	24	32.9%	73	143	83.1%	29	16.9%	0.37%	0.71%	0.01%	1.06
OJ2	39	57.4%	29	42.6%	68	142	82.6%	30	17.4%	0.63%	0.78%	0.03%	1.10
PA2	46	61.3%	29	38.7%	75	136	79.1%	36	20.9%	0.53%	0.84%	-0.00%	0.99
PL2	41	62.1%	25	37.9%	66	140	81.4%	32	18.6%	0.46%	0.56%	0.07%	1.34
QCC	17	70.8%	7	29.2%	24	164	95.3%	8	4.7%	0.42%	0.66%	0.11%	1.55
QG	29	72.5%	11	27.5%	40	156	90.7%	16	9.3%	0.46%	0.85%	0.10%	1.42
QIC	28	87.5%	4	12.5%	32	165	95.9%	7	4.1%	0.47%	0.84%	0.31%	3.97
QM	43	75.4%	14	24.6%	57	150	87.2%	22	12.8%	0.41%	0.58%	0.17%	2.18
RB2	57	75.0%	19	25.0%	76	151	87.8%	21	12.2%	0.51%	0.64%	0.22%	2.39
RP	28	60.9%	18	39.1%	46	151	87.8%	21	12.2%	0.41%	0.54%	0.04%	1.17
RR2	34	54.0%	29	46.0%	63	137	79.7%	35	20.3%	0.50%	0.87%	-0.13%	0.68
RS	47	68.1%	22	31.9%	69	147	85.5%	25	14.5%	0.41%	0.85%	0.01%	1.04
RY	31	64.6%	17	35.4%	48	154	89.5%	18	10.5%	0.44%	0.61%	0.07%	1.32
S2	46	68.7%	21	31.3%	67	150	87.2%	22	12.8%	0.47%	1.01%	0.01%	1.02
SB	49	67.1%	24	32.9%	73	141	82.0%	31	18.0%	0.46%	0.87%	0.02%	1.07
SF	49	68.1%	23	31.9%	72	141	82.0%	31	18.0%	0.39%	0.58%	0.08%	1.45
SI2	49	65.3%	26	34.7%	75	144	83.7%	28	16.3%	0.40%	0.62%	0.04%	1.21
SIN	45	70.3%	19	29.7%	64	151	87.8%	21	12.2%	0.62%	0.85%	0.18%	1.71
SJB	61	67.8%	29	32.2%	90	139	80.8%	33	19.2%	0.41%	0.77%	0.03%	1.13
SM2	61	72.6%	23	27.4%	84	143	83.1%	29	16.9%	0.39%	0.97%	0.02%	1.06
SSG2	30	57.7%	22	42.3%	52	144	83.7%	28	16.3%	0.46%	1.09%	-0.19%	0.58
STW	46	71.9%	18	28.1%	64	143	83.1%	29	16.9%	0.40%	0.56%	0.13%	1.81
SUF	29	64.4%	16	35.6%	45	150	87.2%	22	12.8%	0.59%	1.24%	-0.06%	0.86
SXE	43	76.8%	13	23.2%	56	159	92.4%	13	7.6%	0.41%	0.37%	0.23%	3.74
SXF	41	71.9%	16	28.1%	57	154	89.5%	18	10.5%	0.41%	0.31%	0.21%	3.41
TF	47	82.5%	10	17.5%	57	158	91.9%	14	8.1%	0.45%	0.26%	0.32%	8.11
TU2	49	59.0%	34	41.0%	83	142	82.6%	30	17.4%	0.42%	0.43%	0.07%	1.40
TY	68	71.6%	27	28.4%	95	144	83.7%	28	16.3%	0.42%	0.64%	0.12%	1.67
UL2	10	76.9%	3	23.1%	13	168	97.7%	4	2.3%	0.43%	0.74%	0.16%	1.92
US	59	67.0%	29	33.0%	88	143	83.1%	29	16.9%	0.38%	0.57%	0.06%	1.33
W	32	64.0%	18	36.0%	50	152	88.4%	20	11.6%	0.39%	0.45%	0.09%	1.58
WSA	18	56.3%	14	43.8%	32	155	90.1%	17	9.9%	0.48%	0.72%	-0.05%	0.86
XC2	13	59.1%	9	40.9%	22	162	94.2%	10	5.8%	0.54%	0.87%	-0.03%	0.90
XGN	0	0.0%	1	100.0%	1	171	99.4%	1	0.6%	0.00%	0.83%	-0.83%	0.00
XS2	19	70.4%	8	29.6%	27	165	95.9%	7	4.1%	0.37%	1.00%	-0.03%	0.88
XW2	35	67.3%	17	32.7%	52	152	88.4%	20	11.6%	0.45%	0.58%	0.12%	1.61
YAP	67	76.1%	21	23.9%	88	149	86.6%	23	13.4%	0.41%	0.72%	0.14%	1.80
YBA	36	50.0%	36	50.0%	72	128	74.4%	44	25.6%	0.27%	0.62%	-0.18%	0.43
YG	51	65.4%	27	34.6%	78	135	78.5%	37	21.5%	0.38%	0.50%	0.08%	1.45
YI	48	66.7%	24	33.3%	72	149	86.6%	23	13.4%	0.43%	0.67%	0.06%	1.28
YM	59	75.6%	19	24.4%	78	143	83.1%	29	16.9%	0.45%	0.62%	0.19%	2.28
YTC	45	64.3%	25	35.7%	70	142	82.6%	30	17.4%	0.36%	0.63%	0.01%	1.03
YTT	56	66.7%	28	33.3%	84	143	83.1%	29	16.9%	0.35%	0.54%	0.05%	1.27

Test Period for parameter run 1.

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

Trading Performance

Win/Loss Statistics

CAGR %	39.72%	Wins	4673	67.5%
MAR Ratio	0.94	Losses	2248	32.5%
RAR %	49.46%	Total	6921	100.0%
R-Cubed	2.32	Winning Months	119	69.2%
Robust Sharpe Ratio	1.63	Losing Months	53	30.8%
Margin to Equity Ratio	15.82%	Total	172	100.0%
Daily Return %	0.1546%	Average Risk Percent		1.00%
Daily Geometric Return %	0.0916%	Average Win Percent		0.45%
Daily Standard Deviation %	2.30%	Average Loss Percent		0.69%
Daily Downside Deviation %	1.74%	Average Win Dollars	170,589.91	
Daily Sharpe	0.064	Average Loss Dollars	302,922.90	
Daily Geo Sharpe	0.036	Average Trade Percent		0.08%
Daily Sortino	0.084	Average Trade Duration		7.93
Modified Sharpe Ratio	1.27	Average Trade Dollars		16,788.90
Annual Sharpe Ratio	0.81			

Annual Sortino Ratio	+ ∞	Profit Factor	1.17
Monthly Sharpe Ratio	0.34	Percent Profit Factor	1.36
Monthly Sortino Ratio	0.48	Expectation	0.08
Calmar Ratio	1.28		
R-Squared	0.979		

Equity Management

Maximum Total Equity Drawdown %	42.15%	Test Starting Equity	1,000,000.00
Longest Total Equity Drawdown (months)	17.18	Order Generation Equity	0.00
Average Max TE Drawdown %	34.85%	Order Generation Equity High	0.00
Average Max TE Drawdown Length (months)	10.28	Leverage (fraction)	1.00
Maximum Monthly Total Equity Drawdown %	31.12%	Trading Equity Base	Total Equity
Maximum Monthly Closed Equity Drawdown %	32.22%	Drawdown Reduction Threshold (%)	100.00%
Maximum Closed Equity Drawdown %	38.92%	Drawdown Reduction Amount (%)	0.00%
Average Closed Equity Drawdown %	2.28%		

Global Simulation Parameters

Round Turns Per Million	6,114	Earn Interest	FALSE
Round Turns	3,066,681	Earn Dividends	FALSE
Total Trades	6,921	Pay Margin on Stocks	FALSE
Start Account Balance	1,000,000.00	Commission per Stock Trade	0.00
Total Win Dollars	797,166,643.53	Commission per Stock Share	0.00
Total Loss Dollars	680,970,678.54	Commission per Contract	10.00
Total Profit	116,195,964.98	Commission by Stock Value (%)	0.00%
Earned Interest	0.00	Slippage Percent	5.00%
Margin Interest	0.00	Minimum Slippage	0.00
End Account Balance	117,195,964.98	Forex Trade Size	0.00
End Open Equity	0.00	Account for Forex Carry	FALSE
End Total Equity	117,195,964.98	Use Pip Based Slippage	FALSE
Highest Total Equity	147,768,842.64	Account for Contract Rolls	TRUE
Highest Closed Equity	156,090,876.83	Roll Slippage in % of ATR	3.00%
Total Commissions	30,666,810.00	Minimum Stock Volume	0
Commission per Round Turn	10.00	Minimum Futures Volume	0
Total Slippage	98,370,378.05	Max Percent Volume Per Trade	0.00%
Slippage per Round Turn	32.08	Entry Day Retracement	0.00%
Total Forex Carry	0.00	Max Margin Equity	100.00%
Total Dividends	0.00	Trade on Lock Days	TRUE
Total Other Expenses	0.00	Convert Profit by Stock Split	FALSE
		Trade Always on Tick	TRUE
		Smart Fill Exit	TRUE
		Use Start Date Stepping	FALSE
		Use Broker Positions	FALSE

Custom Statistics

Avg Margin/Equity	0.16
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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.