

TradingVisions, Inc. Presents Vista WFO Portfolios

Harness the Power of Diversification



The best way to succeed at investing may well be to diversify. In futures investing, this may be even more important because of the leverage involved. Putting all your reliance upon one system and one market leaves you completely at the mercy of that system's performance. While this may be an exciting prospect when the system is hot, the inevitable downturns are magnified by this over-reliance on one strategy. It is possible to enhance our chances of success by extending the risk over several equity streams with low correlations, which helps smooth the equity curve and lessen drawdowns. This helps to reduce the capital necessary to trade the portfolio and increase the return on account.

There are three important ways to diversify a futures account: 1.) trade multiple systems, 2.) trade multiple markets, and 3.) trade multiple time-frames. TradingVisions meets all three objectives and makes the task of diversifying simple through the *Vista Portfolios*, varied combinations of up to four systems, two time-frames, and four index markets.

These portfolios have been carefully constructed with the objective of maximizing diversity & returns, while minimizing drawdowns. TradingVisions is especially excited about these portfolio configurations because they exclusively use our WFO series of systems that incorporate a walk-forward protocol that we believe results in a more realistic look at hypothetical results. **To further allow you to see a realistic picture of past performance, slippage, commissions, and lease fees have been deducted from profits.**

- Robust systems
- Diversity of systems, markets & time-frames
- Low equity curve correlations
- High hypothetical & out-of-sample, unoptimized returns
- Low lease rates
- Easy account setup

Account setup is simple: 1) choose a broker (if you don't already have one) from the list of participating brokerages, 2) fill out the Subscription Agreement, choose a payment method (credit card or direct account debiting), and 3) fax the agreement to TradingVisions.

The information herein is informational only, and no solicitation to buy or sell securities or futures is being made. Users are free to construct portfolios of their choosing. Portfolio configurations may change without notice, & as such, these results are not intended to show actual or hypothetical performance of past recommendations or for comparison to actual account results. Further, TradingVisions has neither the right nor the responsibility to change what is traded in client accounts. The pages below only show hypothetical performance for the most current portfolios. Because of the risks involved in futures trading and in order to understand the limitations and assumptions of the numbers presented below, please carefully read the Disclosures & Disclaimers document that follows.

Commodity trading bears a high degree of risk. People can and do lose money. Past performance does not guarantee future results. Hypothetical results have many inherent limitations.

- **The Systems**
 - Delphi II WFO
 - AXIOM Index II WFO
 - Sentinel WFO
 - Metrica WFO
- **The Markets**
 - e-mini Russell 2000
 - e-mini S&P 400 MidCap
 - e-mini S&P
 - e-mini NASDAQ
- **The Time-frames**
 - Day Trade
 - Swing Trade (>1 day)

DISCLOSURES AND DISCLAIMERS

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ANY COMPOSITE PERFORMANCE RECORD PRESENTED HEREIN ARE HYPOTHETICAL AND THESE SYSTEMS MAY NOT HAVE BEEN TRADED TOGETHER IN THE MANNER SHOWN IN THE COMPOSITE. 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 A COMPOSITE PERFORMANCE RECORD SIMILAR TO THAT SHOWN. IN FACT, THERE ARE FREQUENTLY SHARP DIFFERENCES BETWEEN A HYPOTHETICAL COMPOSITE PERFORMANCE RECORD AND THE ACTUAL RECORD SUBSEQUENTLY ACHIEVED.

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Unless otherwise stated, hypothetical results reported by TradingVisions are those generated by the latest version of the systems, including the specific rules & parameter settings. It is therefore not advisable, nor is it the intended purpose, to use these hypothetical results as a guide to what past results should have been achieved by utilizing the version of the systems in effect at a past time.

In some cases, slightly different entry and exit times and prices may be used in leased and/or purchased copies of the trading systems and between brokerage firms, in an attempt to lessen the impact of multiple orders reaching the market at or close to the same time. While over time and an extended number of trades these differences have in the past tended to be small and immaterial, they may in fact prove to have a material impact or over shorter timeframes have a material impact. This, combined with differences in broker execution, means that the specific results of any actual clients may be materially different from the results herein.

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Walk-Forward Optimization: TradingVisions' New WFO Series

TradingVisions is very excited to release the WFO series of its automated trading systems and to incorporate them into the new Vista WFO Portfolios below. This powerful methodology utilizes a strict walk-forward optimization routine that has many advantages over traditional optimization.

Historically, the typical way to achieve strategies that are robust and give a reasonable expectation of future success is to test all available data for a market, adopt the "best" rules and parameters, and trade the system in real-time. We can call this approach look-backward optimization.

An improved approach is to not just look at all available data for one market, but to also look at additional markets, and to adopt the rules and parameters that best fit all or most of them. This approach--what I'll call look-beside optimization--is one I have used since I began developing systems over a dozen years ago.

I have been a firm believer that over-curve-fitting is the bane of system development, and to avoid it, I have been very reluctant to re-optimize systems once released. It is just too easy to find something that works on a single market for a few years in backtesting and re-jigger it every time results are poor.

My approach has worked quite well, but in early 2007 I began intensively testing a way of judiciously using re-optimization on Delphi II that has proven to be preferable. This involves the use of walk-forward optimization (WFO), and it helps to solve two critical shortcomings of traditional optimization: 1.) traditional hypothetical performance records are idealized (optimized), "in-sample" results that usually vary widely from real-time results, and 2.) traditional optimization has no articulated way to adapt to different markets or to changes within a market.

WFO optimizes a system over a set time period from the past--say three years--and applies the "best" parameters to a succeeding time period, say one year. The performance results of the three years are "in-sample," meaning that they are derived from data (the "study period" data) that was used to formulate the system rules or parameters; in other words, the in-sample data was used to find the optimal values. These results are curve-fitted, idealized performance that is rarely matched in actual trading. The performance on that one year after the study period is "out-of-sample," meaning that they are the result of trading outside the period from which the parameters were chosen. This is also called the "application period." The performance from the application period is much closer to what would have been achieved in actual trading, since we could theoretically have been trading during that time with that set of rules and parameters. In fact, if we use realistic slippage and commissions, we have what can be called "real-time" results, even though they are hypothetical in the sense that the trades were not actually made. These results are categorically more trustworthy than backtested results from a system's study period, and this is the most important advantage of WFO.

The "walk-forward" aspect of this approach comes in the next step. If I used data from 1.1.2001 to 12.31.2003 as the first study period of the analysis and 2004 as my first application year, the 2004 trading results are my first year of the hypothetical performance record. I now walk-forward a year and use the data from 1.1.2002 to 12.31.04 as my next study period, and I apply the "best" parameters from this period to 2005. These 2005 out-of-sample results are added to my 2004 hypothetical performance record. I continue to walk-forward to 1.1.2003-12.31.05, apply the best parameters to 2006, and I now have a 3-year hypothetical out-of-sample track record that should be reasonably close to what I could have achieved in actual trading. This methodology is called "running" walk-forward, as opposed to "anchored" walk-forward. The anchored approach does not drop the earlier "study" periods of data, which has the effect of making each study period increasingly longer. This method, which is the one used by TradingVisions, usually leads to increasing stabilization of the parameter choices.

There are several additional benefits to WFO.

In the past, I have worked very hard to have little or no difference in rules/parameters for different markets trading the same system. Optimizing to each market using only in-sample data is very risky because there is no logical point at which to stop doing it. The almost inevitable result is over-curve-fitting and trading losses.

WFO allows for using different parameters for different markets because the backtested out-of-sample performance results for each market provide the validation of the methodology. When only in-sample data is used, the validation is based upon a circular relationship between the study data and the rules/parameters adopted: the results justify the rules/parameters, but the rules/parameters have been justified by the results. WFO takes us out of this pernicious loop and puts our expectations on a realistic foundation.

By allowing different parameters for different markets, WFO has the additional advantage of thereby decreasing correlation between results for those markets. With lower correlations, these markets then become stronger candidates for inclusion in a portfolio.

WFO also allows us to make in-flight corrections of our system parameters. In the past I have set an unswerving hoped-for course from hypothetical results to actual profits by carefully constructing a system and then not deviating from it. This straight-line approach ignores the fact that markets continually and of necessity change nature: Markets are moving targets. WFO allows a system to adapt to market changes.

This is both its inherent advantage, and its Achilles heel.

The advantage is that when there is a significant change in a market, if a system has rules that are sensitive to that change, the re-optimization will cause parameters that better fit the change to rise to the top of the optimization run.

The Achilles heel is that if the market changes don't have enough persistence, the parameters will be changed just in time to mis-perform during the next phase of the market. And this is why WFO is not the Holy Grail: important decisions are made in doing WFO that leave it susceptible to over-curve-fitting. Among these decisions are how long a study period and application period to use, how many iterations are ideal in an optimization, , what makes the "best" measure of performance, what makes the "best" choice of the results in an optimization run, what period in time does one use as the start point of the first study period, and how much variance in approach is acceptable for different markets.

To lessen the chance of over-optimization and over curve-fitting, TradingVisions uses the same protocols for all systems and markets. Specifically:

1.) Exhaustive, rather than genetic, optimization is used whenever possible. I've found that genetic, because it uses sampling, causes the walk-forward results to vary each time it's run, and to also vary from the exhaustive results. Therefore, to get a consistent reading, only exhaustive is used.

2.) Anchored walk-forward is used--each retired application period is added to all prior data as we move forward in time. I've found that for the TradingVisions systems, there is a slight performance edge to using anchored over running walk-forward. Anchored WFO also helps lessen the possibility of making parameter changes just in time to get out of phase with the market. The parameters change less dramatically and less frequently, and by optimizing over longer and longer study times, the best parameters will tend to be those that are able to adapt to a wider range of market permutations.

3.) A "run" is an out-of-sample application period. TradingVisions uses the number of runs that yields a period closest to 1 year. For systems that trade 30-200 times per year, this yields a statistically significant number of trades. A year is also a natural time demarcation. For most of the TradingVisions systems, this means 8 or 9 runs.

4.) The "best" performance is determined by net profit/maximum drawdown. I believe this is the safest and most important metric, since it takes both risk and reward into account. My studies have shown this to be the metric that is most likely to yield good out-of-sample performance.

5.) Subjective judgments are strictly minimized.

Walk-forward optimization is the closest we can get to actual results prior to trading, and this is what makes it so powerful. Because the results are from out-of-sample, unoptimized data, it allows us to see how a strategy could have performed, had we been trading it in the past. This helps us to measure the system's robustness and to give us increased confidence when we start actual trading. WFO is not the holy grail and it does not guarantee profits, but it is a step closer to accurately measuring the strength of a system.

Ideal versus Real Results

One of the most significant issues in system trading is "real" versus "ideal" performance numbers, so I'd like to provide a few informal definitions and discuss this important facet of automated trading, as well as provide some data.

Computers are powerful tools that allow us to analyze myriad data. When we state trading rules in analysis software like TradeStation and run tests on historical data, we are "backtesting." With computers we can run thousands of backtests, finding the needle of a sharp idea in a haystack of numbers. Anyone can look at a chart, spot a pattern consisting of a few examples, and see where they should have entered and exited, but the computer allows us to find hundreds of examples of the same conditions to see whether trading that pattern is consistent enough to be profitable over time. A computer further allows us to refine our ideas through "optimization," which is a test of a numerical idea, running through a series of values to find the optimal one(s). Backtested, optimized results are idealized because they give us the "best" fit to the curves of past data, or they are "curve-fitted." The data used as our testing period is called the sample data, and to distinguish it from other data, it is called "in-sample" data. Results that are from past data are also called "in-sample," meaning that they are derived from the tested data sample.

Unfortunately, although backtesting is a powerful tool, devising a system that shows profitable backtesting does not provide assurance of profits in a trading account. This is because markets are constantly evolving and tend to mutate. As we must say, "Past performance does not guarantee future results." We therefore should not place too much credence in backtested, in-sample, optimized, curve-fitted, idealized results. Instead, we look to results that come from "out-of-sample" data. This data is any that resides outside the original test data used. It can be from an earlier period of time, a later period of time, or from a different market (e.g. the e-mini Russell, instead of the e-mini S&P). The results from out-of-sample data have much more import because they tell us how our system trades in real markets, as opposed to the ideal one of our test sample. When those results are from data after the end of our study data, it is "real-time" results (some people use "real-time" to mean results from actual trades placed in an account, but I prefer to use it as any trades generated after the end period of in-sample data). The results are "real" in the sense that the trades could have been taken in real time, since the system already existed, and they were not results from the "ideal" time period over which the system was developed.

"Hypothetical" has two primary meanings in the context of trading. Less strictly it means results from the in-sample data set. More strictly it means any results that were not actual trades in an account. Unfortunately, this latter category masks an important distinction in hypothetical results. If the results are from the in-sample period, then they are idealized results. But if they are results from the out-of-sample period that may or may not have been actually traded in an account, then they have much more significance because they could have been real trades.

In judging a system, the real-time, out-of-sample, unoptimized results should carry more weight than the in-sample results, if there are a significant number of trades. We want to know how the system performed in less-than-ideal conditions.

The TradingVisions systems--particularly the WFO series--have a significant amount of out-of-sample, unoptimized performance, which in this case means either performance that occurred after the release of the system rules and parameters or performance based on out-of-sample data. If, for example, a system was released July 15, 2004, and it has not been substantively changed since then, the period after 7/15/04 is considered to be out-of-sample and real-time. Or if an optimization was run over the period 1/1/2000 to 12/31/2003, then any results from after that end date would be considered out-of-sample. [Please note the word "substantively;" over time minor clerical coding changes (usually related to changes in EasyLanguage, exchange session changes, or corrections to make the logic more closely fit the original system logic) have been made to most of the systems, as well as minor changes in exit times or in entry specifics that allow for different trade points in order to prevent all orders from being at the same time and price. These changes do not result in significant performance differences over time.]

TradingVisions System Release Dates & Out-of-sample or Substantively Unchanged Periods

<u>System</u>	<u>Release Date</u>	<u>Out-of-sample since:</u>
Delphi II WFO TF Day	7/1/2013	2/5/2006
Delphi II WFO ES Day	7/1/2013	2/7/2004
Delphi II WFO EM Swing	7/1/2013	4/1/2006
Sentinel WFO ES Day	6/23/2013	7/7/2003
Sentinel WFO NQ Day	6/23/2013	10/3/2003
Sentinel WFO TF Day	6/23/2013	3/7/2006
AXIOM II WFO ES Swing	5/27/2013	2/13/2004
AXIOM II WFO NQ Swing	5/27/2013	3/5/2005
Metrica WFO ES Swing	12/15/2015	6/27/2002

Portfolio Construction

The portfolios are generally constructed to fit a range of account sizes and lease expense and according to how the components fit together in terms of performance, correlation, and diversity. The first components are chosen because they have the best balance of performance with lowest drawdowns, therefore allowing them to be traded with a smaller account size. From there each remaining system and its markets is tested, and the one allowing the best risk/reward and smoothest return for the smallest account size is added. The ultimate goal is a smooth, upward-trending equity curve, which indicates excellent risk/reward and the ability to handle years of changing market dynamics.

Recommended Account Size

The recommended account size is determined by finding the average maximum drawdown ("AMDD") of 2,000 randomly generated equity curves. This gives a much more statistically valid measure of a portfolio's risk profile. On the assumption that most investors are (reluctantly) willing to accept a 35% drawdown, the AMDD is then divided by .35, resulting in a recommended account size that in the past had sustained about a 35% drawdown. Clients are of course free to capitalize to their comfort level & are urged to do so.

Lease Fees

TradingVisions charges user fees according to which of three groups you belong: 1.) broker-assist clients, where a brokerage has the system code and trades the signals for registered lease clients; 2.) TradeStation and MultiCharts users, who lease the encrypted code from TradingVisions and trade from their computer; and 3.) License purchasers, who purchase the open-source code and are charged no lease fees.

For the hypothetical results reported in this document, lease fees at the broker-assist level (\$155 to \$195/contract/quarter) have been deducted, in addition to slippage and commission, in order an attempt to present as realistic a picture as possible of what the past could have looked like. If you are comparing these results to those of other developers, please consider whether they deduct lease fees, in order to fairly compare. TradeStation & MultiCharts clients pay \$165 to \$225/contract/quarter, which is a little higher than the broker-assist rate. Clients who purchase system licenses do not pay lease fees, and the results presented here are therefore appreciably understated.

TradingVisions provides a free tool--Portfolio Calculator--that allows for adjusting or removing the lease fees, available at the "Performance" tab at the TradingVisions site, www.tradingvisions.com.

Here are the portfolio components & lease rates for broker-assist & TradeStation/MultiCharts users:

TradingVisions Vista WFO Portfolios: Systems & Markets																
System	Markets	Vista II \$17,500	Vista III \$23,000	Vista IV \$32,500	Vista IV ES \$32,000	Vista V \$33,000	Vista V-L \$35,500	Vista VI \$35,000	Vista VI-L \$37,500	Vista VII \$37,000	Vista VII-L \$42,500	Vista VIII \$42,000	Vista VIII-B \$42,000	Vista VIII-L \$60,000	Vista IX \$57,500	Vista IX-B \$57,500
Delphi II WFO	TF day		1	1		1	1	1	1	1	1	1	1	1	1	1
Delphi II WFO	EM swiag													1	1	1
Delphi II WFO	ES day				1		1	1	1	1	1	1	1	1	1	1
Sentinel WFO	ES day	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sentinel WFO	NQ day								1	1	1	1	1	1	1	1
Sentinel WFO	TF day										1	1	1	1	1	1
AXIOM II WFO	ES swiag			1	1	1	1	1	1	1	1	1	1	1	1	1
AXIOM II WFO	NQ swiag	1	1	1		1	1	1	1	1	1	1	1	1	1	1
Metrica WFO Level1	ES swiag				1	1		1	1	1		1			1	
Metrica WFO Level2	ES swiag												1			1
Quarterly Lease Fee: Broker Assist		\$390	\$585	\$700	\$700	\$875	\$875	\$1,050	\$1,050	\$1,085	\$1,085	\$1,240	\$1,240	\$1,240	\$1,395	\$1,395
TradeStation & MultiCharts Rate		\$450	\$675	\$780	\$780	\$975	\$975	\$1,170	\$1,170	\$1,155	\$1,155	\$1,320	\$1,320	\$1,320	\$1,485	\$1,485

"TF"=emini Russell 2000; "EM"=emini Midcap S&P400; "ES"=emini S&P500; "NQ"=emini NASDAQ

Vista Legacy Portfolios: The "L" Series

You will notice in the grid above that four of the portfolios end in "-L". This is the Legacy series of portfolios, named as such in order to create continuity for users familiar with the portfolios offered prior to the introduction of TradingVisions' latest system, Metrica WFO ES. The current Vista I-IV and the portfolios ending in -L remain the same as before Metrica's release. Starting with the new Vista V, Metrica WFO ES has been added to each previous portfolio. For example, to the original Vista IV, Metrica was added, creating the new Vista V; to legacy Vista V (now Vista V-L), Metrica was added, creating the new Vista VI, & so on. The legacy portfolios were first released on 7/10/2013 & their components have not changed since then. Also, the portfolios up through Vista VI-L have been traded in live accounts since then. If you prefer to lease a legacy portfolio because they are more "seasoned," they are still available.

The "B" Series

The "B" options for Vista VIII and IX are designed to give clients a choice of potential risk level that relates to Metrica. Metrica has two trading levels. Level1 trades a maximum of 1 contract. Level2 adds a second long contract under special circumstances that occur about 25% of the time. Although Level2 has almost the same statistical risk profile as Level1 (as measured by the average maximum drawdown of 2,000 randomly ordered equity curves), it adds about 55% of hypothetical profit, generating more hypothetical profits than the other WFO systems and markets. However, it also adds the inherent risk of at times holding 2 contracts versus 1, during that time potentially doubling a loss. Since the maximum dollar loss can be up to \$2,000 per contract, it's important to be properly capitalized to sustain such a loss with 2 contracts. It's also important that the risk and reward contributions of each portfolio component be relatively balanced, so that if one component is underperforming, others can compensate. For these reasons, Level2 is generally recommended for only the larger account sizes.

System & Market Correlations

Correlations of Monthly Equity Changes for TradingVisions Systems and Markets									
	D WFO TF	D WFO ES	D WFO EM	Sent WFO NQ	Sent WFO TF	Sent WFO ES	AX WFO NQ	AX WFO ES	Metrica WFO ES
Delphi II WFO TF Day		0.17	0.19	0.09	0.23	0.02	0.04	0.10	-0.15
Delphi II WFO ES Day	0.17		0.26	0.19	0.24	0.11	-0.02	-0.09	0.06
Delphi II WFO EM Swing	0.19	0.26		0.03	0.19	0.07	0.17	0.09	0.08
Sentinel WFO NQ Day	0.09	0.19	0.03		0.53	0.52	-0.10	0.03	-0.10
Sentinel WFO TF Day	0.23	0.24	0.19	0.53		0.48	-0.02	0.08	-0.09
Sentinel WFO ES Day	0.02	0.11	0.07	0.52	0.48		-0.08	0.01	-0.10
AXIOM WFO NQ Swing	0.04	-0.02	0.17	-0.10	-0.02	-0.08		0.61	-0.02
AXIOM WFO ES Swing	0.10	-0.09	0.09	0.03	0.08	0.01		0.61	-0.05
Metrica WFO ES	-0.15	0.06	0.08	-0.10	-0.09	-0.10	-0.02	-0.05	

Correlation is a statistical measurement of the relationship between two variables. Possible correlations range from +1 to -1. A zero correlation indicates that there is no relationship between the variables. A correlation of -1 indicates a perfect negative correlation, meaning that as one variable goes up, the other goes down. A correlation of +1 indicates a perfect positive correlation, meaning that both variables move in the same direction together. For trading systems that have positive returns, the closer the correlation is to zero, the better. Generally, a correlation between -.3 and +.3 is considered low correlation and indicates that the profitable systems would make a good combination, since there is low likelihood that they would consistently move in the same direction and to the same degree as each other in any given month. This helps to reduce volatility & risk.

Delphi II WFO

Delphi is a swing and day trading system that was released September 27, 2005.

Delphi is a robust trend-following system that employs a proprietary dynamic channel for entries and exits. On July 1, 2013 TradingVisions released **Delphi II WFO**, which incorporates a walk-forward optimization protocol to day trade the emini Russell and emini S&P and swing trade the emini Midcap. The WFO version of **Delphi II** uses the original **Delphi II** logic introduced in May, 2007. All entries and exits are stops or limit orders. Exits are based upon volatility, as determined by ATR (average true range), while maximum dollar stops cap the losses. The three versions of **Delphi II WFO** have low correlations of .12, .22, and .29, making them excellent portfolio candidates.



Created with TradeStation

Sentinel WFO

Sentinel was released in January, 2012, and is designed to trade the e-mini S&P, NASDAQ, and Russell.

Sentinel is a trend-following system that watches for early market strength or weakness and then a confirming continuation. It uses no indicators, relying exclusively on time and price patterns, which tend to provide the most reliable trade signals, since they are usually associated with general human emotions or a "crowd mentality." In the market for only about 1% of the time, it is remarkable that **Sentinel** is able to catch so much profit for so little time risk.

Sentinel is a simple system, with only 2 entry parameters. For purchasers, it is simple enough to be traded without software, or it can be completely automated with TradeStation. It has a high hypothetical profit-per-trade history, a high percentage of wins, and very low historical hypothetical drawdowns. It works well on the index futures markets, as well as index ETFs like SPY and IWN.

On June 7, 2013 TradingVisions released **Sentinel WFO**, which incorporates a walk-forward optimization protocol. Re-optimization will be done once a year, and the resulting best values will be used to trade for the next year.



Created with TradeStation

AXIOM Index II WFO

AXIOM Index is a trend-following swing trading system that was released April 21, 2004. A channel-based strategy, it is recommended for trading the e-mini S&P and the e-mini NASDAQ. AXIOM employs a unique entry mechanism that utilizes a proprietary channel built upon the confluence and mutual confirmation of a number of trend cycles.

On June 1, 2013 TradingVisions released AXIOM Index II WFO, which incorporates several changes to AXIOM Index made over the last two years, most importantly a walk-forward optimization protocol. Re-optimization of only the exit stops is done once a year, and the resulting best values are used to trade for the next year.



Metrica WFO

Metrica, TradingVisions latest offering, was released in December, 2015, and is designed to swing trade the e-mini S&P.

Unlike TradingVisions other WFO programs, Metrica is a counter-trend system, and as such it has almost no correlation with Delphi, AXIOM, or Sentinel. This makes it the perfect addition to the Vista Portfolios.

Metrica is highly selective in waiting for a unique signal that the market is oversold, with fear dominating price action, or that the market is overbought, with complacency dominating. These two extremes have a tendency to provide excellent trading opportunities.

In hypothetical out-of-sample performance, Metrica wins over 70% of the time, and its average trades exceeds \$700, after slippage and commission. It trades about once a month and is in a trade about 21% of the time. The maximum dollar risk is \$2,000 per contract.

Metrica has two trading levels. Level1 trades a maximum of 1 contract. Level2 adds a second long contract under special circumstances that occur about 25% of the time. Level2 adds about 55% of hypothetical profit, generating more hypothetical profits than the other WFO systems and markets. Because it can trade 2 contracts, Level2 is generally recommended for only the larger account sizes.

Metrica was submitted to Futures Truth for third-party tracking in December of 2015.



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TradingVisions Vista WFO Portfolios: Harness The Power of Diversification

The portfolio components chosen herein are the most current choices. The components may change over time and as such these results are not intended to show the results of past portfolios or for comparison to actual account results. In some cases the same portfolio name is used, although the components may have changed. The pages below only show hypothetical performance for the current component choices & parameters.

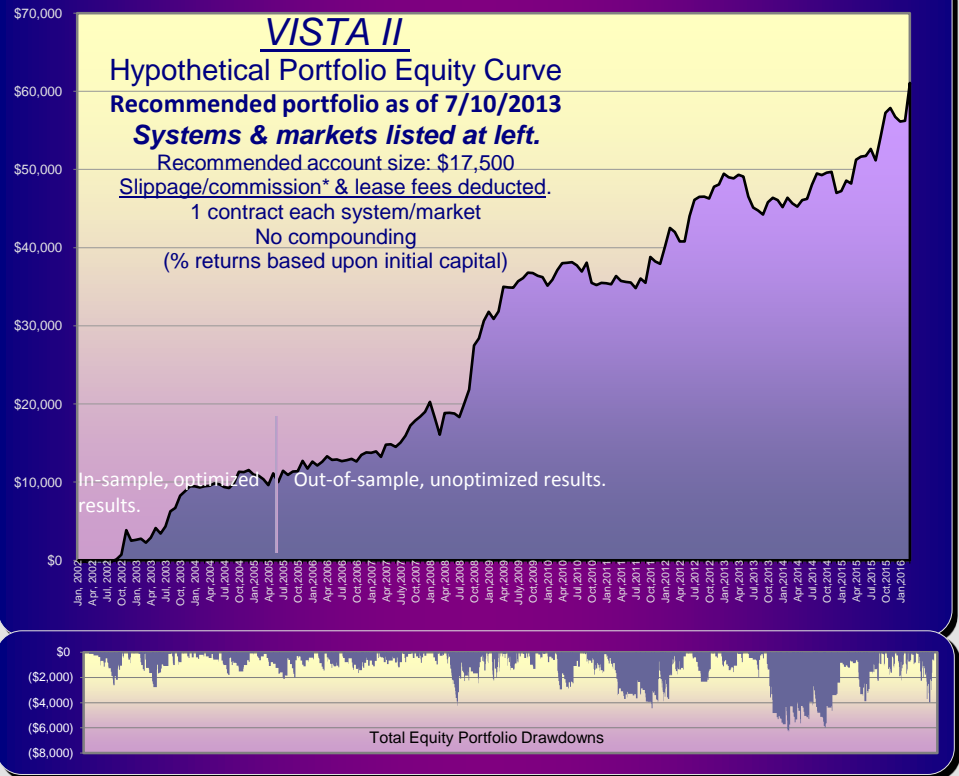
ALL PERFORMANCE REPORTS BELOW ARE UPDATED THROUGH March 31, 2016.

All results are hypothetical. Slippage+commission* & lease fees have been deducted.

Systems & markets included:	OOS* since
Sentinel WFO ES Day	1 7/7/03
Sentinel WFO TF Day	0 3/7/06
Sentinel WFO NQ Day	0 10/3/03
AXIOM II WFO NQ Sw	1 3/5/05
AXIOM II WFO ES Sw	0 2/13/04
Delphi II WFO TF Day	0 2/15/06
Delphi II WFO ES Day	0 2/7/04
Delphi II WFO EM Sw	0 4/1/06
Metrica WFO ES 2 Sw	0 7/22/02

* "OOS" = "out-of-sample"

Total Profit	\$61,068
Max Drawdown (closed equity)	-\$6,263
Average Max. Drawdown**	-\$6,013
Rec. Account Size	\$17,500
Average Annual Profit	\$4,366
Avg. Annual Return (1 cont.)	24.9%
Total Trades Days	743
Percent Winning Trade Days	47.9%
Average Trade Day Profit	\$82
Sharpe Ratio	1.04
Lease fee deducted?	YES



Total Equity (closed trade)

Year	January	February	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Year %	Max DD
2002	(130)	(130)	(130)	(420)	(463)	(1,350)	1,513	950	285	595	3,138	(1,350)	2,508	14.3%	-15.0%
2003	110	143	(503)	633	1,240	(710)	910	1,935	435	1,565	580	630	6,968	39.8%	-15.3%
2004	(15)	(140)	155	65	295	(115)	(350)	(125)	660	1,420	(45)	265	2,070	11.8%	-10.3%
2005	(590)	(125)	(460)	(750)	1,500	(1,120)	1,455	(530)	430	40	1,325	(990)	185	1.1%	-11.3%
2006	900	(500)	475	700	(460)	55	(215)	120	170	(335)	840	320	2,070	11.8%	-9.4%
2007	(50)	180	(700)	1,560	50	(330)	560	865	1,305	635	508	610	5,193	29.7%	-5.5%
2008	1,273	(2,058)	(2,140)	2,768	30	(88)	(460)	1,728	1,800	5,630	920	2,233	11,635	66.5%	-24.3%
2009	1,163	(918)	968	3,150	(85)	(35)	830	400	695	(50)	(348)	(180)	5,590	31.9%	-16.8%
2010	(1,085)	760	1,220	895	50	78	(408)	(785)	1,133	(2,585)	(280)	280	(728)	-4.2%	-19.4%
2011	(50)	(130)	1,060	(633)	(125)	(80)	(715)	1,233	(555)	3,310	(575)	(305)	2,435	13.9%	-22.2%
2012	2,225	2,365	(525)	(1,200)	0	3,235	2,080	388	30	(245)	1,513	288	10,153	58.0%	-13.4%
2013	1,378	(460)	(140)	463	(230)	(2,555)	(1,415)	(373)	(515)	1,570	575	(303)	(2,005)	-11.5%	-35.8%
2014	(895)	1,205	(725)	(415)	830	165	1,815	1,430	(210)	313	110	(2,700)	923	5.3%	-18.7%
2015	248	1,328	(373)	3,045	398	90	895	(1,465)	2,955	3,123	625	(1,133)	9,735	55.6%	-18.5%
2016	(603)	98	4,843										4,338	24.8%	-22.8%
Average													4,366	24.9%	-17.2%

TradingVisions Systems, Inc.

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** Average maximum drawdown of 2,000 Monte Carlo random equity curve simulations as of date portfolio was first created.

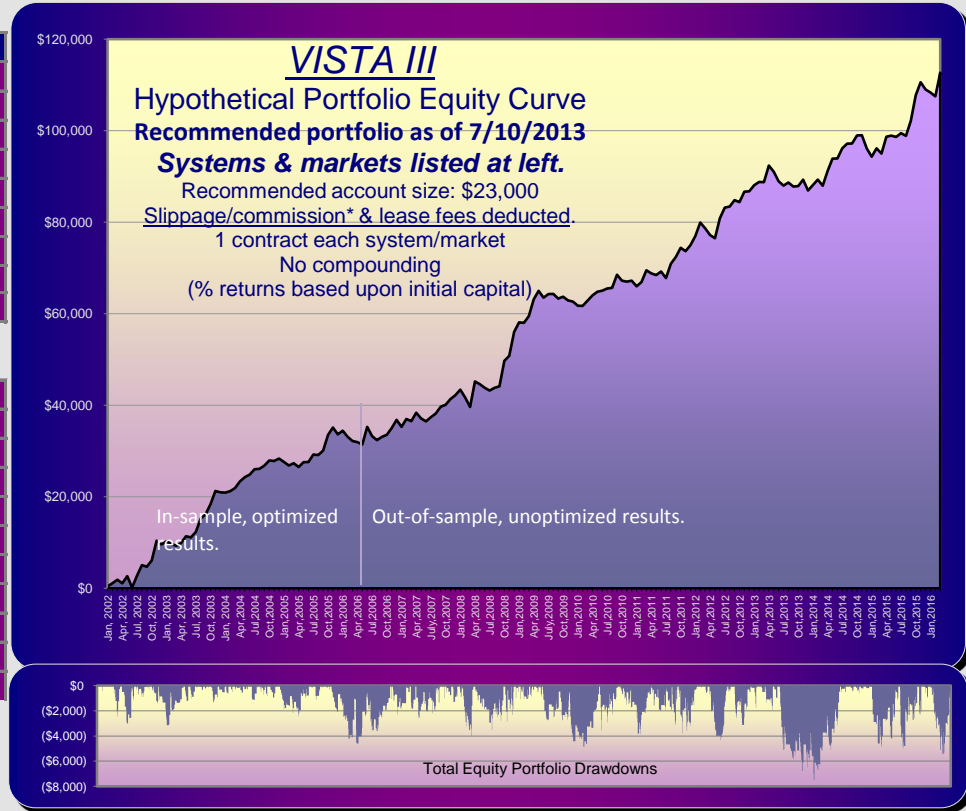
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Delphi II WFO ES Day	0 2/7/04
Delphi II WFO EM Sw	0 4/1/06
Metrica WFO ES 2 Sw	0 7/22/02

* "OOS" = "out-of-sample"

Total Profit	\$112,683
Max Drawdown (closed equity)	-\$7,490
Average Max. Drawdown**	-\$7,964
Rec. Account Size	\$23,000
Average Annual Profit	\$8,001
Avg. Annual Return (1 cont.)	34.8%
Total Trades Days	1,497
Percent Winning Trade Days	52.1%
Average Trade Day Profit	\$75
Sharpe Ratio	1.89
Lease fee deducted?	YES



Total Equity (closed trade)

Year	January	February	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Year %	Max DD
2002	445	695	745	(785)	1,573	(2,475)	2,588	2,295	(350)	1,350	4,343	(815)	9,608	41.8%	-13.0%
2003	645	(518)	(423)	618	1,455	(245)	1,175	2,950	930	2,200	2,885	(285)	11,388	49.5%	-13.7%
2004	(70)	305	680	1,440	950	550	1,185	80	715	1,115	(110)	530	7,370	32.0%	-5.1%
2005	(745)	(770)	495	(835)	1,065	35	1,630	(105)	975	3,425	1,620	(1,505)	5,285	23.0%	-10.6%
2006	805	(1,335)	(920)	(245)	(515)	3,850	(2,030)	(875)	715	460	1,465	1,800	3,175	13.8%	-17.0%
2007	(1,530)	1,725	(485)	1,845	(1,245)	(645)	915	800	1,480	430	1,253	845	5,388	23.4%	-11.1%
2008	1,208	(1,703)	(2,085)	5,583	(595)	(793)	(605)	603	325	5,565	1,095	5,228	13,825	60.1%	-17.5%
2009	2,088	(103)	1,473	3,675	1,850	(1,500)	795	25	(1,020)	415	(813)	(255)	6,630	28.8%	-19.2%
2010	(910)	(25)	1,155	1,140	795	233	468	140	2,868	(1,290)	(215)	215	4,573	19.9%	-15.5%
2011	(1,235)	925	2,575	(678)	(370)	775	(1,430)	3,128	1,460	2,035	(740)	1,310	7,755	33.7%	-16.6%
2012	2,010	2,940	(1,270)	(1,465)	(705)	4,360	2,335	233	1,405	(440)	2,278	93	11,773	51.2%	-18.9%
2013	1,313	725	(35)	3,618	(1,325)	(2,120)	(930)	673	(880)	105	1,400	(2,368)	175	0.8%	-32.6%
2014	1,190	1,190	(1,340)	3,220	2,705	30	2,240	1,005	25	1,768	45	(2,905)	9,173	39.9%	-12.6%
2015	(1,778)	1,823	(1,148)	3,680	243	(295)	840	(610)	3,340	5,568	2,820	(1,578)	12,905	56.1%	-21.5%
2016	(668)	(838)	5,168										3,663	15.9%	-23.6%
Average													8,001	34.8%	-16.6%

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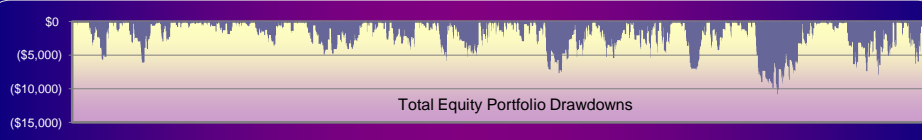
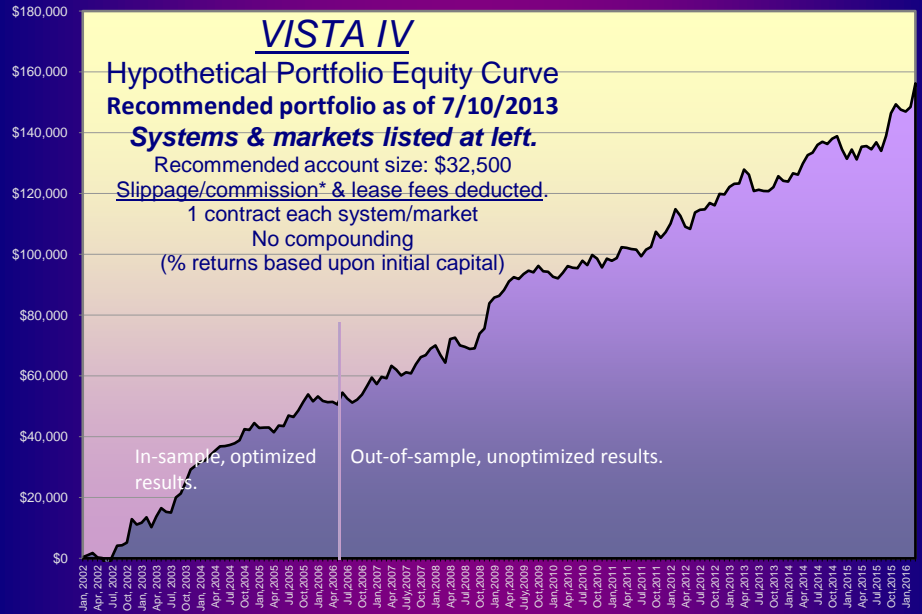
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Delphi II WFO ES Day	0 2/7/04
Delphi II WFO EM Sw	0 4/1/06
Metrica WFO ES 2 Sw	0 7/22/02

* "OOS" = "out-of-sample"

Total Profit	\$156,235
Max Drawdown (closed equity)	-\$10,787
Average Max. Drawdown**	-\$11,349
Rec. Account Size	\$32,500
Average Annual Profit	\$11,112
Avg. Annual Return (1 cont.)	34.2%
Total Trades Days	1,980
Percent Winning Trade Days	51.3%
Average Trade Day Profit	\$79
Sharpe Ratio	2.55
Lease fee deducted?	YES



Total Equity (closed trade)

Year	January	February	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Year %	Max DD
2002	407	657	707	(1,471)	(208)	(3,373)	3,919	3,537	134	882	7,724	(1,788)	11,125	34.2%	-17.5%
2003	599	1,792	(3,256)	3,489	2,787	(1,233)	(243)	4,979	1,304	3,687	4,187	1,257	19,348	59.5%	-18.2%
2004	1,262	509	1,662	1,509	1,422	102	352	572	999	3,644	(263)	2,282	14,050	43.2%	-5.9%
2005	(1,611)	109	27	(1,576)	2,222	(178)	3,472	(481)	2,144	2,807	2,482	(2,281)	7,135	22.0%	-11.2%
2006	1,622	(1,493)	(413)	104	(863)	3,907	(1,953)	(1,326)	962	1,672	2,740	2,861	7,817	24.1%	-13.4%
2007	(2,141)	2,374	(468)	4,104	(1,276)	(1,901)	1,037	(358)	3,012	2,337	657	2,117	9,493	29.2%	-12.7%
2008	1,079	(3,121)	(2,553)	7,769	462	(2,548)	(473)	(693)	192	4,837	1,684	8,287	14,920	45.9%	-18.0%
2009	1,899	569	1,914	2,824	1,414	(601)	1,637	1,097	(548)	2,129	(1,783)	(168)	10,383	31.9%	-21.9%
2010	(1,638)	(526)	1,829	2,212	(533)	(163)	2,459	(1,448)	3,339	(1,202)	(2,897)	2,897	4,328	13.3%	-16.3%
2011	(713)	887	3,589	(201)	(408)	(193)	(2,196)	2,199	877	5,007	(1,996)	1,864	8,715	26.8%	-16.6%
2012	2,824	4,727	(2,183)	(3,586)	(726)	5,417	877	139	2,094	(776)	3,779	(183)	12,403	38.2%	-22.2%
2013	2,434	1,057	107	4,587	(1,678)	(5,383)	409	(403)	(53)	1,324	3,597	(1,511)	4,485	13.8%	-33.2%
2014	(258)	2,722	(443)	3,634	2,794	809	2,557	1,037	(741)	1,729	837	(4,326)	10,350	31.8%	-11.0%
2015	(3,113)	3,047	(3,258)	4,174	227	(1,073)	2,307	(2,823)	4,932	7,472	2,917	(1,748)	13,057	40.2%	-24.6%
2016	(626)	1,502	7,752										8,627	26.5%	-19.4%
Average													11,112	34.2%	-17.5%

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** Average maximum drawdown of 2,000 Monte Carlo random equity curve simulations as of date portfolio was first created.

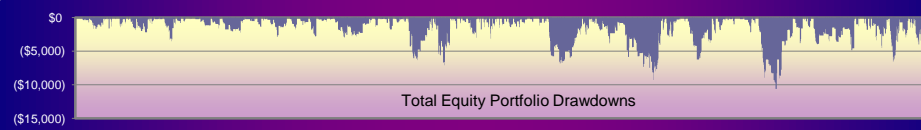
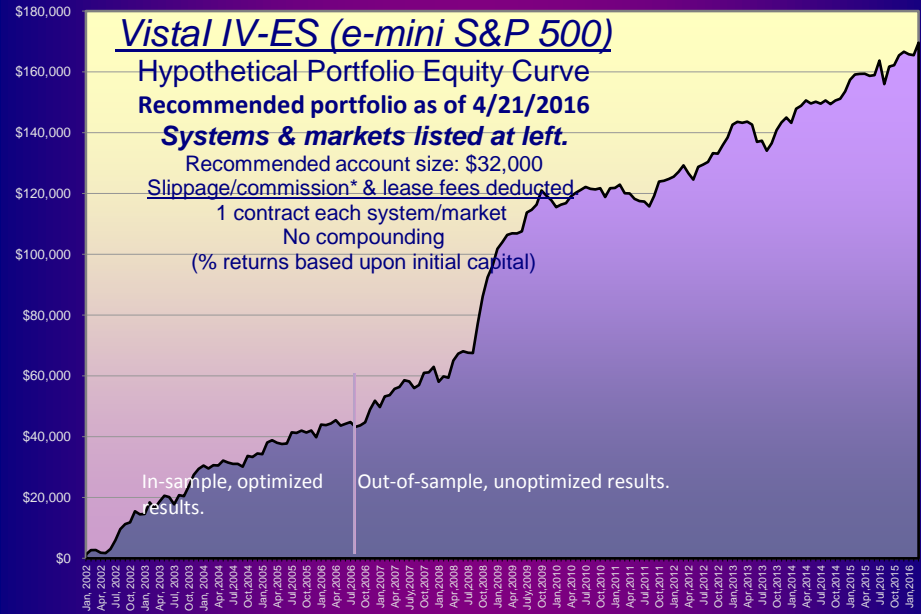
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Delphi II WFO EM Sw	0 4/1/06
Metrica WFO ES Lev1	1 7/22/02
Metrica WFO ES Lev2	0 7/22/02

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Total Profit	\$169,628
Max Drawdown (closed equity)	-\$9,429
Average Max. Drawdown**	-\$9,721
Rec. Account Size	\$32,000
Average Annual Profit	\$11,981
Avg. Annual Return (1 cont.)	35.3%
Total Trades Days	1,614
Percent Winning Trade Days	54.5%
Average Trade Day Profit	\$105
Sharpe Ratio	1.45
Lease fee deducted?	YES



Total Equity (closed trade)

Year	January	February	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Year %	Max DD
2002	1,297	1,412	32	(886)	(118)	1,342	2,879	3,654	1,662	569	3,657	(1,016)	14,483	45.3%	-5.2%
2003	139	3,794	(2,023)	2,257	1,967	(461)	(2,381)	3,024	(328)	3,314	3,692	1,959	14,953	46.7%	-11.1%
2004	1,094	(958)	1,077	(101)	1,629	(656)	(438)	(1)	(923)	3,542	(348)	1,159	5,075	15.9%	-7.0%
2005	(241)	3,839	754	(843)	(393)	152	3,679	(188)	757	(636)	667	(2,216)	5,330	16.7%	-9.0%
2006	4,162	(168)	534	1,089	(1,781)	592	574	(1,596)	494	1,017	4,205	2,901	12,023	37.6%	-9.3%
2007	(2,106)	3,514	417	2,072	629	2,212	(403)	(2,178)	1,009	3,994	172	1,812	11,143	34.8%	-19.8%
2008	(4,918)	1,772	(428)	5,624	2,279	799	(488)	(106)	9,822	8,799	6,312	3,722	33,188	103.7%	-22.1%
2009	5,619	2,169	2,419	519	(41)	687	6,194	899	1,709	4,654	(1,708)	(1,476)	21,645	67.6%	-18.1%
2010	(2,303)	834	479	2,222	1,184	934	997	(628)	(193)	393	(2,889)	2,889	3,918	12.2%	-12.1%
2011	99	1,087	(2,836)	(56)	(1,791)	(726)	(156)	(1,606)	3,452	4,729	257	594	3,048	9.5%	-27.3%
2012	764	1,592	2,114	(2,601)	(2,083)	4,197	749	877	2,872	(158)	2,777	2,539	13,638	42.6%	-19.5%
2013	4,214	942	(318)	384	(981)	(5,676)	377	(3,291)	2,447	4,322	2,534	1,617	6,570	20.5%	-33.2%
2014	(1,751)	4,644	967	1,767	(1,008)	584	(643)	1,059	(1,196)	1,172	597	2,389	8,580	26.8%	-15.2%
2015	3,824	1,744	217	42	(703)	244	4,804	(7,756)	5,774	439	3,222	1,217	13,067	40.8%	-20.6%
2016	(851)	(291)	4,112										2,970	9.3%	-12.6%
Average													11,981	35.3%	-16.1%

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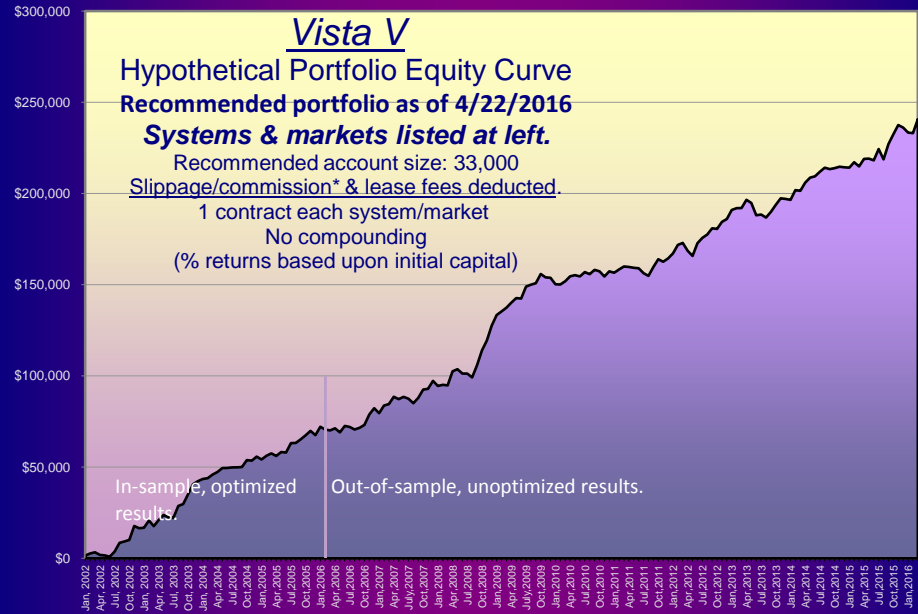
TradingVisions Vista WFO Portfolios: Harness The Power of Diversification

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Systems & markets included:	OOS* since
Sentinel WFO ES Day	1 7/7/03
Sentinel WFO TF Day	0 3/7/06
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AXIOM II WFO ES Sw	1 2/13/04
Delphi II WFO TF Day	1 2/15/06
Delphi II WFO ES Day	0 2/7/04
Delphi II WFO EM Sw	0 4/1/06
Metrica WFO ES Lev1	1 7/22/02
Metrica WFO ES Lev2	0 7/22/02

* "OOS" = "out-of-sample"

Total Profit	\$240,803
Max Drawdown (closed equity)	-\$11,359
Average Max. Drawdown**	-\$11,432
Rec. Account Size	\$33,000
Average Annual Profit	\$17,061
Avg. Annual Return (1 cont.)	51.7%
Total Trades Days	2,131
Percent Winning Trade Days	52.8%
Average Trade Day Profit	\$113
Sharpe Ratio	1.72
Lease fee deducted?	YES



Total Equity (open+close)	Total Equity (closed trade)													Total	Year %	Max DD
Year	January	February	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.				
2002	1,533	1,156	648	(1,437)	(282)	(734)	2,846	4,776	763	823	7,666	(1,239)	16,520	50.1%	-11.1%	
2003	281	3,976	(3,124)	3,416	2,728	(1,292)	(302)	6,553	1,018	5,376	5,463	1,696	25,790	78.2%	-15.2%	
2004	1,203	451	1,963	1,436	2,148	53	293	43	188	3,793	(322)	2,223	13,475	40.8%	-6.5%	
2005	(1,564)	2,033	1,301	(1,429)	2,163	(264)	5,161	108	1,983	2,193	2,423	(2,339)	11,770	35.7%	-9.5%	
2006	4,603	(1,552)	(472)	1,166	(2,232)	3,543	(572)	(1,384)	903	1,613	5,692	3,449	14,760	44.7%	-13.4%	
2007	(2,729)	4,196	783	4,046	(1,334)	1,283	(1,044)	(2,467)	2,953	4,551	391	4,376	15,005	45.5%	-27.5%	
2008	(2,802)	626	(299)	7,711	1,148	(2,374)	(32)	(2,092)	6,716	8,091	5,403	8,228	30,325	91.9%	-18.8%	
2009	5,756	1,978	2,051	2,766	2,501	(262)	6,571	1,038	813	5,036	(1,842)	(227)	26,180	79.3%	-21.8%	
2010	(3,552)	(127)	1,771	2,711	648	(704)	2,373	(1,129)	2,363	(820)	(2,838)	2,838	3,535	10.7%	-15.9%	
2011	(772)	1,813	1,623	(259)	(467)	(252)	(2,707)	(1,467)	4,858	4,263	(1,384)	1,806	7,058	21.4%	-26.4%	
2012	2,766	4,668	1,078	(4,312)	(2,814)	6,978	2,916	1,826	3,431	(339)	3,856	1,581	21,635	65.6%	-29.9%	
2013	4,948	998	48	4,528	(1,737)	(6,737)	386	(1,639)	3,111	3,898	3,538	(349)	10,995	33.3%	-34.4%	
2014	(519)	5,368	(394)	4,483	2,736	751	2,498	2,223	(799)	536	778	(319)	17,343	52.6%	-17.9%	
2015	(207)	2,988	(2,297)	4,116	168	(947)	6,193	(5,652)	8,391	5,368	5,053	(1,412)	21,765	66.0%	-22.9%	
2016	(2,714)	(332)	7,693										4,648	14.1%	-24.2%	
Average													17,061	51.7%	-19.7%	

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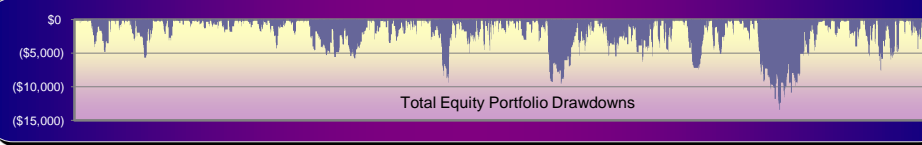
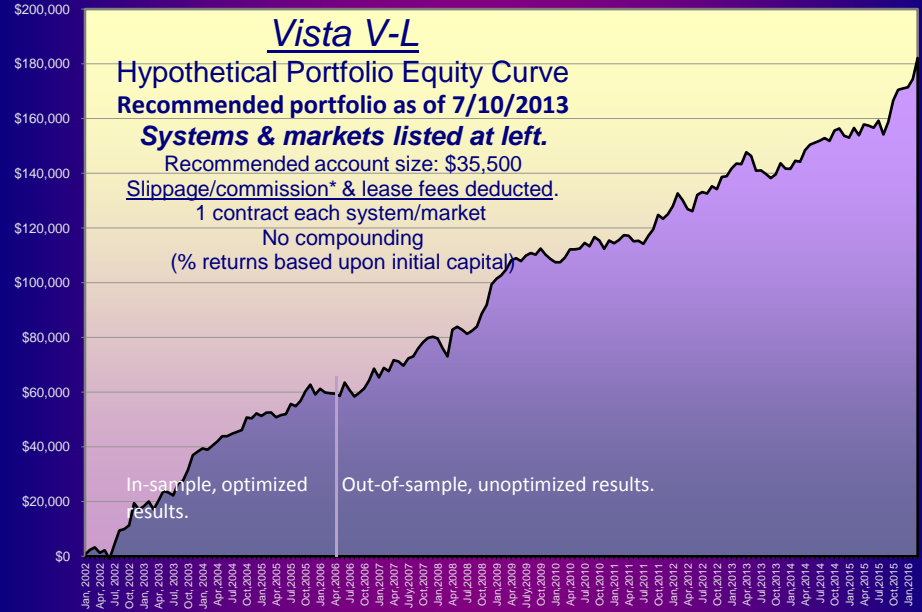
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Delphi II WFO EM Sw	0 4/1/06
Metrica WFO ES 2 Sw	0 7/22/02

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Total Profit	\$182,140
Max Drawdown (closed equity)	-\$13,416
Average Max. Drawdown**	-\$12,301
Rec. Account Size	\$35,500
Average Annual Profit	\$12,915
Avg. Annual Return (1 cont.)	36.4%
Total Trades Days	2,707
Percent Winning Trade Days	52.0%
Average Trade Day Profit	\$67
Sharpe Ratio	2.65
Lease fee deducted?	YES



Year	January	February	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Year %	Max DD
2002	693	1,686	913	(1,997)	948	(3,134)	5,296	5,068	496	1,396	8,083	(2,302)	17,148	48.3%	-13.6%
2003	1,181	1,743	(2,932)	3,223	3,558	(569)	(1,089)	4,478	966	3,903	5,378	1,313	21,155	59.6%	-16.0%
2004	1,161	(517)	1,533	1,491	1,931	21	883	686	681	4,586	(322)	1,826	13,960	39.3%	-5.3%
2005	(954)	1,223	53	(1,747)	808	351	3,698	(804)	1,971	3,481	2,423	(3,584)	6,920	19.5%	-12.4%
2006	2,063	(1,367)	(249)	(139)	(849)	4,883	(2,759)	(2,334)	1,346	1,613	2,953	4,269	9,430	26.6%	-13.8%
2007	(3,204)	3,496	(1,242)	4,053	(479)	(1,539)	2,671	703	2,906	2,288	1,551	461	11,665	32.9%	-9.8%
2008	(644)	(3,542)	(3,009)	9,766	1,076	(1,122)	(1,457)	1,091	1,546	4,783	3,136	7,513	19,137	53.9%	-23.5%
2009	2,066	1,283	2,166	3,251	801	(1,074)	2,013	941	(594)	2,241	(2,192)	(1,594)	9,307	26.2%	-26.2%
2010	(1,222)	(7)	1,771	2,941	6	288	2,056	(1,224)	3,376	(1,265)	(3,021)	3,021	6,720	18.9%	-15.2%
2011	(999)	1,163	1,793	(224)	(2,024)	186	(1,117)	2,913	2,383	5,306	(1,437)	1,701	9,645	27.2%	-15.6%
2012	2,911	4,668	(2,459)	(3,262)	(792)	5,988	1,008	(532)	2,648	(1,052)	4,453	268	13,850	39.0%	-20.9%
2013	2,833	1,803	(217)	4,361	(1,359)	(5,419)	128	(1,287)	(1,519)	1,341	4,071	(1,942)	2,795	7.9%	-37.8%
2014	(117)	2,971	(359)	4,216	2,013	751	713	956	(1,034)	3,768	778	(2,704)	11,953	33.7%	-13.1%
2015	(619)	3,521	(2,687)	3,968	(427)	(804)	2,616	(5,059)	4,608	7,821	3,888	518	17,345	48.9%	-21.4%
2016	431	2,986	7,693												
Average													12,915	36.4%	-17.1%

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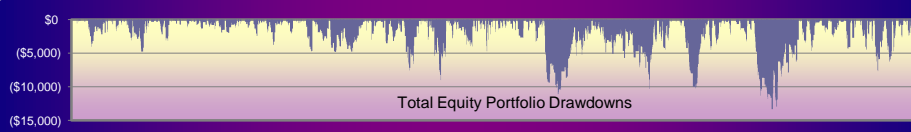
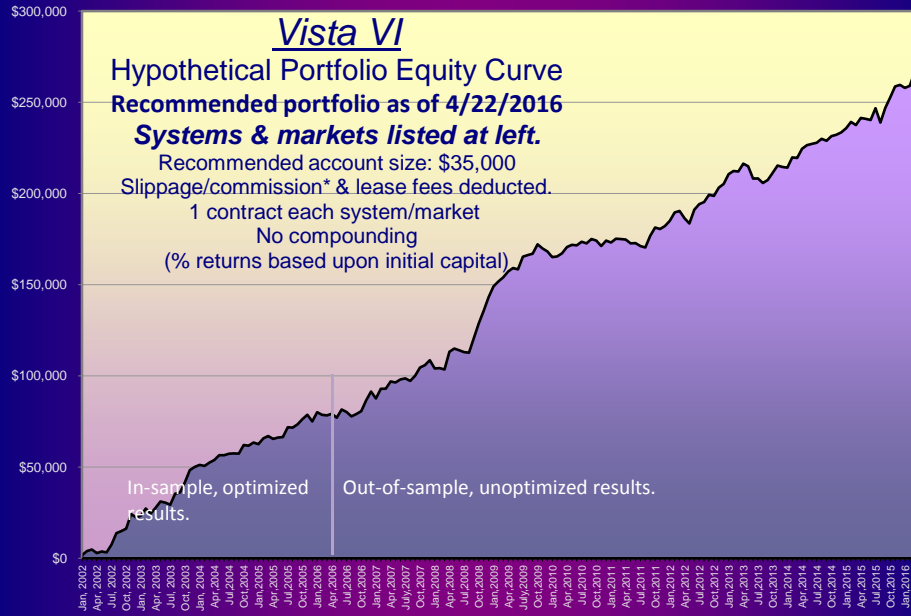
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Metrica WFO ES Lev2	0 7/22/02

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Total Profit	\$266,708
Max Drawdown (closed equity)	-\$13,318
Average Max. Drawdown**	-\$12,217
Rec. Account Size	\$35,000
Average Annual Profit	\$18,855
Avg. Annual Return (1 cont.)	53.9%
Total Trades Days	2,858
Percent Winning Trade Days	53.1%
Average Trade Day Profit	\$93
Sharpe Ratio	1.78
Lease fee deducted?	YES



Total Equity (closed trade)

Year	January	February	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Year %	Max DD
2002	1,820	2,185	855	(1,963)	875	(495)	4,223	6,308	1,125	1,338	8,025	(1,753)	22,543	64.4%	-11.6%
2003	863	3,928	(2,800)	3,150	3,500	(628)	(1,148)	6,053	680	5,593	6,655	1,753	27,598	78.9%	-13.6%
2004	1,103	(575)	1,835	1,418	2,658	(28)	825	158	(130)	4,735	(380)	1,768	13,385	38.2%	-5.8%
2005	(908)	3,148	1,328	(1,600)	750	265	5,388	(215)	1,810	2,868	2,365	(3,643)	11,555	33.0%	-12.7%
2006	5,045	(1,425)	(308)	923	(2,218)	4,520	(1,378)	(2,393)	1,288	1,555	5,905	4,858	16,373	46.8%	-13.7%
2007	(3,793)	5,318	10	3,995	(538)	1,645	590	(1,405)	2,848	4,503	1,285	2,720	17,178	49.1%	-21.7%
2008	(4,525)	205	(755)	9,708	1,763	(948)	(1,015)	(308)	8,070	8,038	6,855	7,455	34,543	98.7%	-25.7%
2009	5,923	2,693	2,303	3,193	1,888	(735)	6,948	883	768	5,148	(2,250)	(1,653)	25,105	71.7%	-26.7%
2010	(3,135)	393	1,713	3,440	1,188	(253)	1,970	(905)	2,400	(883)	(2,963)	2,963	5,928	16.9%	-14.3%
2011	(1,058)	2,090	(173)	(283)	(2,083)	128	(1,628)	(753)	6,365	4,563	(825)	1,643	7,988	22.8%	-25.5%
2012	2,853	4,610	803	(3,988)	(2,880)	7,550	3,048	1,155	3,985	(615)	4,530	2,033	23,083	66.0%	-29.3%
2013	5,348	1,745	(275)	4,303	(1,418)	(6,773)	105	(2,523)	1,645	3,915	4,013	(780)	9,305	26.6%	-38.1%
2014	(378)	5,618	(310)	5,065	1,955	693	655	2,143	(1,093)	2,575	720	1,303	18,945	54.1%	-13.4%
2015	2,288	3,463	(1,725)	3,910	(485)	(678)	6,503	(7,888)	8,068	5,718	6,025	855	26,053	74.4%	-21.9%
2016	(1,658)	1,153	7,635										7,130	20.4%	-18.4%
Average													18,855	53.9%	-19.5%

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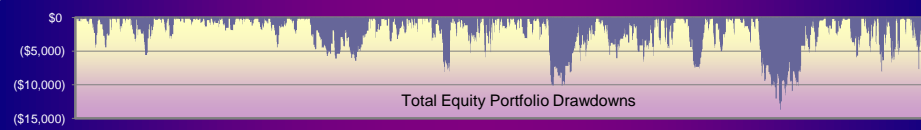
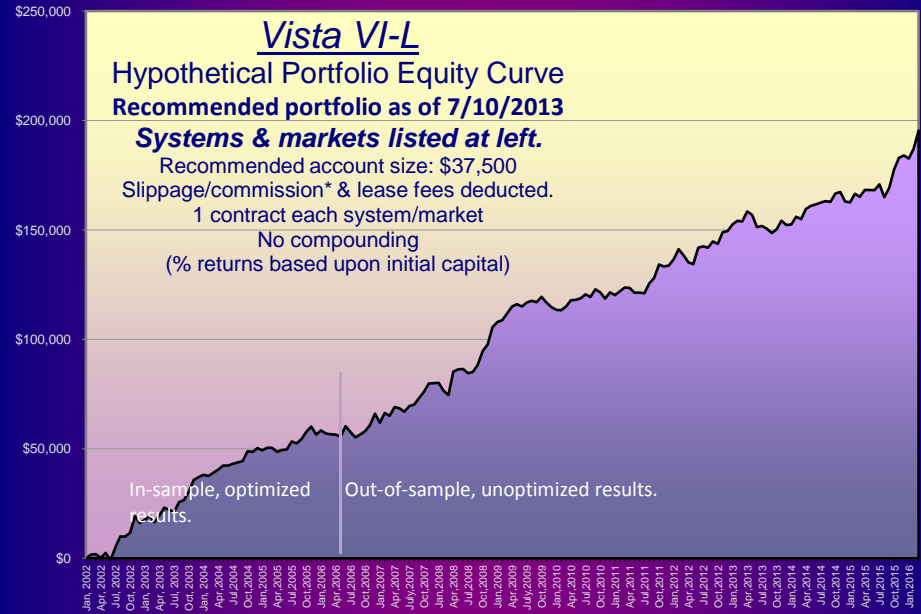
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Metrica WFO ES 2 Sw	0 7/22/02

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Total Profit	\$195,395
Max Drawdown (closed equity)	-\$13,708
Average Max. Drawdown**	-\$13,117
Rec. Account Size	\$37,500
Average Annual Profit	\$13,827
Avg. Annual Return (1 cont.)	36.9%
Total Trades Days	3,075
Percent Winning Trade Days	52.2%
Average Trade Day Profit	\$64
Sharpe Ratio	2.26
Lease fee deducted?	YES



Total Equity (closed trade)

Year	January	February	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Year %	Max DD
2002	85	1,628	255	(1,735)	2,290	(3,383)	5,868	4,990	(43)	1,728	7,595	(3,130)	16,148	43.1%	-12.0%
2003	1,453	1,730	(2,825)	3,175	3,500	(1,058)	(838)	4,420	908	3,925	5,320	1,255	20,965	55.9%	-14.6%
2004	1,103	(575)	1,475	1,433	1,873	(38)	825	628	623	4,528	(380)	1,768	13,260	35.4%	-5.2%
2005	(1,013)	1,165	(5)	(1,805)	750	293	3,640	(863)	1,913	3,423	2,365	(3,643)	6,220	16.6%	-11.9%
2006	1,845	(1,425)	(308)	(198)	(908)	4,825	(2,738)	(2,393)	1,288	1,555	2,778	5,153	9,475	25.3%	-13.4%
2007	(4,088)	4,438	(1,300)	3,995	(538)	(1,598)	2,613	645	2,953	2,905	3,798	148	13,970	37.3%	-9.4%
2008	138	(3,600)	(1,928)	10,693	1,018	150	(1,935)	603	3,298	6,285	2,893	7,945	25,558	68.2%	-20.4%
2009	2,383	845	3,118	3,143	1,053	(1,073)	1,805	823	(653)	2,443	(2,560)	(2,083)	9,243	24.6%	-26.9%
2010	(1,280)	(230)	1,713	2,883	173	705	1,833	(1,208)	3,498	(1,380)	(2,878)	2,878	6,705	17.9%	-14.9%
2011	(1,273)	1,740	1,720	(168)	(2,248)	128	(345)	4,470	2,540	6,148	(930)	473	12,255	32.7%	-15.4%
2012	2,853	4,595	(2,743)	(3,275)	(830)	7,525	625	(590)	2,825	(1,110)	5,330	525	15,730	41.9%	-20.2%
2013	3,030	1,655	(275)	4,578	(1,558)	(5,593)	485	(1,215)	(2,008)	1,643	4,013	(2,000)	2,755	7.3%	-36.6%
2014	250	3,538	(1,103)	4,678	1,375	693	800	693	(328)	3,805	720	(4,383)	10,738	28.6%	-13.7%
2015	(398)	3,943	(1,375)	3,130	(35)	(68)	2,663	(5,843)	4,205	8,503	5,275	1,040	21,040	56.1%	-21.5%
2016	(1,413)	4,568	8,180										11,335	30.2%	-20.5%
Average													13,827	36.9%	-17.1%

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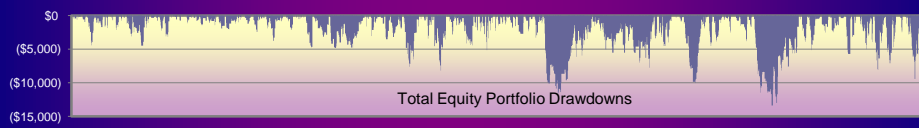
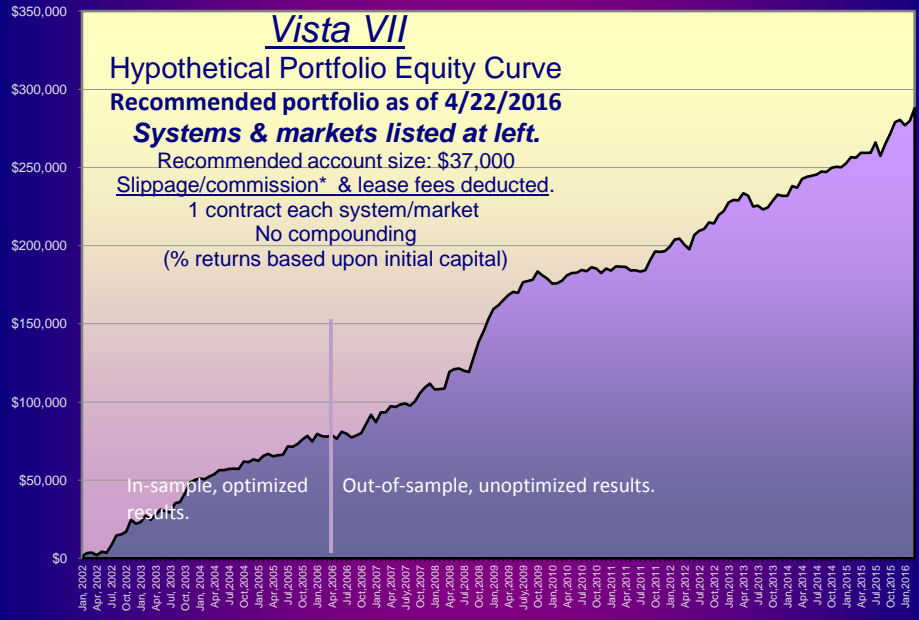
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Total Profit	\$287,943
Max Drawdown (closed equity)	-\$12,804
Average Max. Drawdown**	-\$15,027
Rec. Account Size	\$37,000
Average Annual Profit	\$20,324
Avg. Annual Return (1 cont.)	54.9%
Total Trades Days	3,226
Percent Winning Trade Days	53.1%
Average Trade Day Profit	\$89
Sharpe Ratio	1.81
Lease fee deducted?	YES



Total Equity (closed trade)

Year	January	February	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Year %	Max DD
2002	1,258	2,173	243	(1,654)	2,263	(697)	4,841	6,276	633	1,716	7,583	(2,534)	22,103	59.7%	-12.0%
2003	1,181	4,101	(2,787)	3,148	3,488	(1,069)	(849)	6,041	668	5,661	6,643	1,741	27,968	75.6%	-12.1%
2004	1,091	(587)	1,823	1,406	2,646	(39)	813	146	(142)	4,723	(392)	1,756	13,245	35.8%	-5.5%
2005	(919)	3,136	1,316	(1,612)	738	253	5,376	(227)	1,798	2,856	2,353	(3,654)	11,415	30.9%	-12.1%
2006	4,873	(1,437)	(319)	911	(2,229)	4,508	(1,309)	(2,404)	1,276	1,543	5,870	5,834	17,117	46.3%	-13.0%
2007	(4,769)	6,306	(2)	3,983	(549)	1,633	578	(1,417)	2,941	5,166	3,578	2,453	19,903	53.8%	-20.5%
2008	(3,697)	193	373	10,681	1,751	371	(1,447)	(749)	9,868	9,586	6,658	7,933	41,523	112.2%	-22.1%
2009	6,286	2,301	3,301	3,131	2,186	(687)	6,786	811	756	5,396	(2,572)	(2,094)	25,600	69.2%	-27.3%
2010	(3,147)	216	1,701	3,428	1,401	211	1,793	(842)	2,568	(857)	(2,866)	2,866	6,473	17.5%	-14.6%
2011	(1,284)	2,713	(199)	(179)	(2,259)	116	(809)	851	6,568	5,451	(272)	461	11,158	30.2%	-17.9%
2012	2,841	4,583	566	(3,954)	(2,872)	9,133	2,711	1,143	4,208	(627)	5,453	2,336	25,523	69.0%	-27.2%
2013	5,591	1,643	(287)	4,566	(1,569)	(6,899)	508	(2,404)	1,203	4,263	(792)	(792)	9,825	26.6%	-36.1%
2014	36	6,231	(1,007)	5,573	1,363	681	788	1,926	(339)	2,658	708	(329)	18,290	49.4%	-15.5%
2015	2,556	3,931	(367)	3,118	(47)	106	6,596	(8,624)	7,711	6,446	7,458	1,423	30,308	81.9%	-21.9%
2016	(3,454)	2,781	8,168										7,495	20.3%	-25.5%
Average													20,324	54.9%	-18.9%

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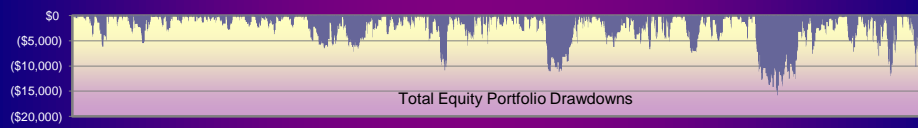
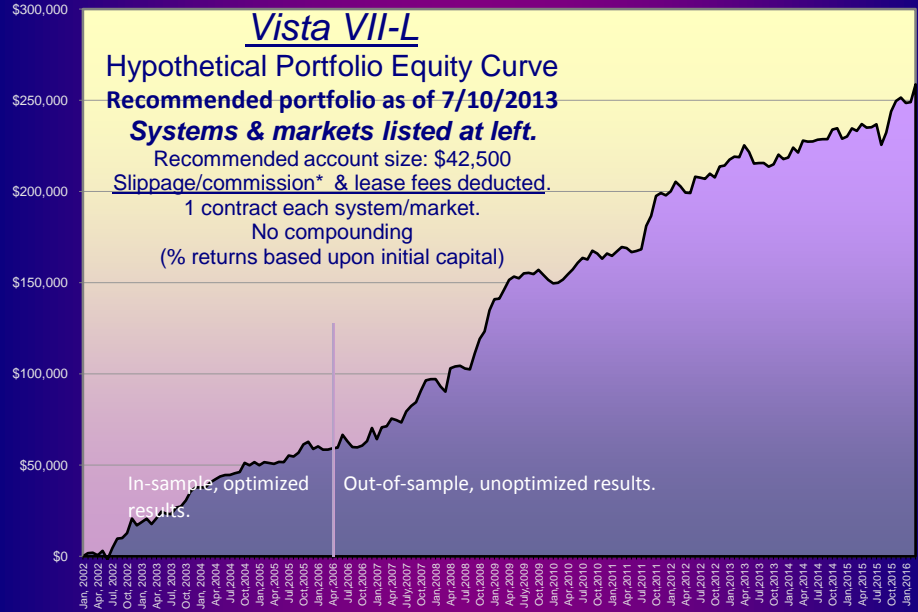
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Systems & markets included:	OOS* since
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Sentinel WFO NQ Day	1 10/3/03
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AXIOM II WFO ES Sw	1 2/13/04
Delphi II WFO TF Day	1 2/15/06
Delphi II WFO ES Day	1 2/7/04
Delphi II WFO EM Sw	0 4/1/06
Metrica WFO ES 2 Sw	0 7/22/02

* "OOS" = "out-of-sample"

Total Profit	\$258,770
Max Drawdown (closed equity)	-\$15,806
Average Max. Drawdown**	-\$14,862
Rec. Account Size	\$42,500
Average Annual Profit	\$18,307
Avg. Annual Return (1 cont.)	43.1%
Total Trades Days	3,609
Percent Winning Trade Days	53.2%
Average Trade Day Profit	\$72
Sharpe Ratio	2.07
Lease fee deducted?	YES



Total Equity (closed trade)

Year	January	February	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Year %	Max DD
2002	73	1,686	243	(1,427)	2,478	(4,734)	6,246	5,178	296	2,726	7,963	(3,702)	17,028	40.1%	-14.5%
2003	1,801	1,823	(2,942)	3,183	3,608	(1,069)	(279)	3,578	646	3,293	5,088	1,993	20,725	48.8%	-12.9%
2004	111	(127)	2,793	1,681	1,581	801	53	926	661	5,036	(1,342)	1,756	13,930	32.8%	-6.7%
2005	(1,734)	1,693	(447)	(487)	1,078	(129)	3,628	(534)	2,071	4,551	1,463	(3,954)	7,200	16.9%	-11.2%
2006	1,423	(1,797)	21	741	341	7,033	(3,589)	(3,114)	(194)	973	2,473	7,199	11,510	27.1%	-16.8%
2007	(6,134)	6,496	568	4,233	(849)	(1,289)	6,031	2,983	2,091	6,383	5,586	656	26,755	63.0%	-11.8%
2008	36	(4,022)	(2,859)	12,811	1,006	358	(1,507)	(449)	8,826	7,893	4,101	11,533	37,727	88.8%	-24.2%
2009	6,101	303	5,076	5,221	1,821	(944)	2,703	281	(674)	2,321	(2,782)	(2,724)	16,703	39.3%	-26.1%
2010	(1,912)	328	1,771	2,871	2,691	3,573	2,741	(879)	4,826	(1,555)	(2,836)	2,836	14,455	34.0%	-13.5%
2011	(1,284)	2,438	2,418	(579)	(2,239)	636	943	12,778	5,498	10,936	1,658	(1,319)	31,885	75.0%	-15.7%
2012	2,211	5,263	(2,544)	(3,427)	(212)	8,933	(507)	(652)	2,813	(2,052)	6,008	513	16,350	38.5%	-17.6%
2013	3,228	1,643	(287)	6,486	(3,669)	(6,314)	283	33	(2,019)	1,271	5,341	(2,472)	3,525	8.3%	-37.2%
2014	868	5,436	(2,694)	6,546	(577)	111	948	291	11	5,253	708	(5,724)	11,178	26.3%	-17.9%
2015	1,221	4,441	(1,367)	3,738	(1,957)	241	1,601	(11,284)	6,723	11,631	5,693	1,868	22,550	53.1%	-28.2%
2016	(2,964)	486	9,728										7,250	17.1%	-23.9%
Average													18,307	43.1%	-18.5%

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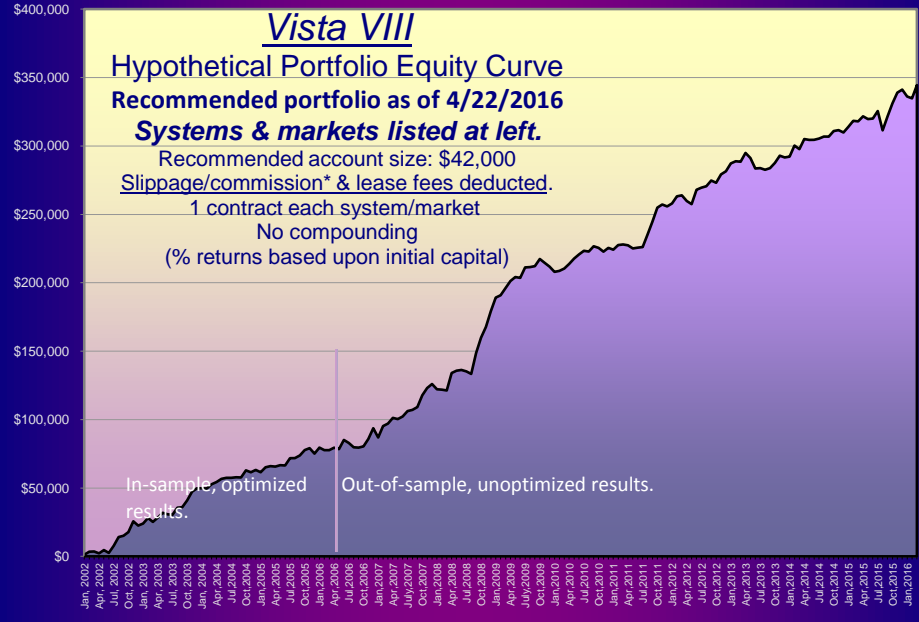
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Delphi II WFO EM Sw	0 4/1/06
Metrica WFO ES Lev1	1 7/22/02
Metrica WFO ES Lev2	0 7/22/02

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Total Profit	\$344,478
Max Drawdown (closed equity)	-\$15,611
Average Max. Drawdown**	-\$14,495
Rec. Account Size	\$42,000
Average Annual Profit	\$24,311
Avg. Annual Return (1 cont.)	57.9%
Total Trades Days	3,760
Percent Winning Trade Days	54.0%
Average Trade Day Profit	\$91
Sharpe Ratio	1.71
Lease fee deducted?	YES



Total Equity (closed trade)

Year	January	February	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Year %	Max DD
2002	1,207	2,192	192	(1,386)	2,412	(2,088)	5,179	6,424	932	2,674	7,912	(3,146)	22,503	53.6%	-9.9%
2003	1,489	4,034	(2,823)	3,117	3,557	(1,121)	(331)	5,159	367	4,989	6,372	2,439	27,248	64.9%	-10.9%
2004	59	(178)	3,102	1,614	2,314	759	2	404	(143)	5,192	(1,393)	1,704	13,435	32.0%	-7.2%
2005	(1,681)	3,624	834	(333)	1,027	(208)	5,324	62	1,917	3,944	1,412	(4,006)	11,915	28.4%	-11.5%
2006	4,412	(1,848)	(31)	1,809	(1,021)	6,677	(2,201)	(3,166)	(246)	922	5,445	7,801	18,553	44.2%	-13.9%
2007	(6,736)	8,324	1,827	4,182	(901)	1,902	3,957	882	2,039	8,604	5,327	2,922	32,328	77.0%	-12.0%
2008	(3,838)	(268)	(598)	12,759	1,699	539	(1,058)	(1,841)	15,357	11,154	7,827	11,482	53,213	126.7%	-23.0%
2009	9,964	1,719	5,219	5,169	2,914	(598)	7,644	229	694	5,234	(2,833)	(2,776)	32,580	77.6%	-26.5%
2010	(3,818)	734	1,719	3,377	3,879	3,039	2,662	(553)	3,857	(1,153)	(2,784)	2,784	13,742	32.7%	-13.2%
2011	(1,336)	3,372	459	(631)	(2,291)	584	439	9,119	9,487	10,199	2,277	(1,371)	30,307	72.2%	-15.9%
2012	2,159	5,212	724	(4,146)	(2,293)	10,502	1,539	1,042	4,157	(1,608)	6,092	2,284	10,115	61.1%	-23.9%
2013	5,749	1,592	(338)	6,434	(3,721)	(7,661)	267	(1,196)	1,152	3,852	5,289	(1,303)	10,115	24.1%	-37.2%
2014	614	8,089	(2,638)	7,402	(628)	59	897	1,484	(41)	4,067	657	(1,711)	18,250	43.5%	-18.2%
2015	4,134	4,389	(398)	3,687	(2,008)	374	5,494	(14,106)	10,189	9,534	7,837	2,212	31,338	74.6%	-29.8%
2016	(5,046)	(1,341)	9,677										3,290	7.8%	-28.8%
Average													24,311	57.9%	-18.8%

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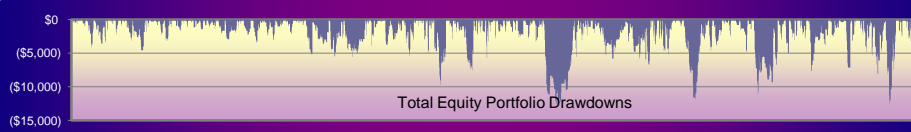
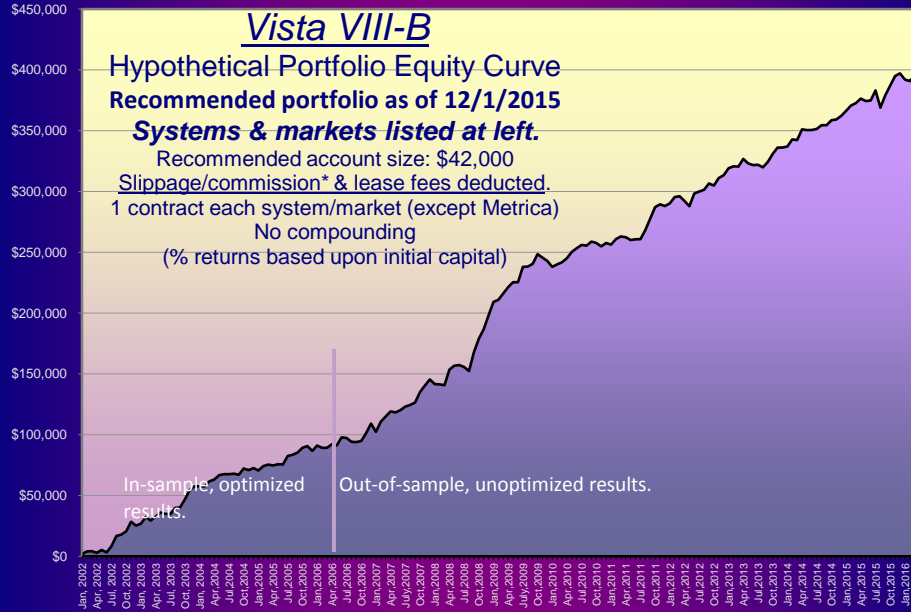
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Delphi II WFO EM Sw	0 4/1/06
Metrica WFO ES Lev1	0 7/22/02
Metrica WFO ES Lev2	1 7/22/02

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Total Profit	\$395,505
Max Drawdown (closed equity)	-\$12,533
Average Max. Drawdown**	-\$14,555
Rec. Account Size	\$42,000
Average Annual Profit	\$27,912
Avg. Annual Return (1 cont.)	66.5%
Total Trades Days	3,767
Percent Winning Trade Days	53.9%
Average Trade Day Profit	\$105
Sharpe Ratio	1.94
Lease fee deducted?	YES



Total Equity (closed trade)

Year	January	February	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Year %	Max DD
2002	1,902	2,192	192	(1,386)	2,412	(2,088)	5,179	8,362	1,127	2,674	7,912	(3,146)	25,330	60.3%	-9.9%
2003	1,489	5,454	(2,793)	3,087	3,557	(1,121)	(331)	5,159	367	6,722	7,722	2,922	32,233	76.7%	-10.9%
2004	59	(178)	4,227	1,584	3,589	754	2	404	(911)	5,192	(1,393)	1,704	15,033	35.8%	-7.2%
2005	(1,986)	3,624	1,247	(738)	1,027	(208)	7,057	949	1,799	3,944	1,412	(4,006)	14,120	33.6%	-11.5%
2006	4,412	(1,848)	(31)	2,979	(1,021)	6,677	(506)	(3,166)	(246)	922	6,503	7,801	22,475	53.5%	-13.3%
2007	(6,736)	8,324	4,297	4,182	(901)	1,902	2,944	1,302	2,039	8,604	5,327	5,042	36,325	86.5%	-12.8%
2008	(3,838)	(268)	(598)	12,759	3,232	539	(1,646)	(3,283)	15,357	11,154	7,827	11,482	52,715	125.5%	-23.0%
2009	11,047	1,719	5,219	5,169	4,097	(48)	12,634	229	2,189	8,042	(2,833)	(2,776)	44,687	106.4%	-26.5%
2010	(4,883)	2,094	1,719	3,377	5,174	3,039	2,662	(553)	3,314	(1,153)	(2,784)	2,784	14,790	35.2%	-13.2%
2011	(1,336)	4,522	2,174	(631)	(2,291)	584	114	7,414	9,487	9,457	2,277	(1,371)	30,400	72.4%	-15.9%
2012	2,159	5,212	724	(3,938)	(4,323)	10,502	1,539	1,504	5,177	(1,721)	6,212	2,284	25,330	60.3%	-28.2%
2013	5,749	1,592	(338)	6,434	(3,721)	(1,361)	232	(2,108)	4,359	6,597	5,289	54	22,778	54.2%	-26.6%
2014	814	5,859	(556)	8,834	(628)	59	897	3,104	(41)	4,067	657	2,947	26,013	61.9%	-18.2%
2015	4,134	4,389	2,009	3,687	(2,008)	374	8,352	(14,106)	10,189	7,892	7,837	2,212	34,960	83.2%	-29.8%
2016	(5,046)	(1,303)	4,667										(1,682)	-4.0%	-28.8%
Average													27,912	66.5%	-18.4%

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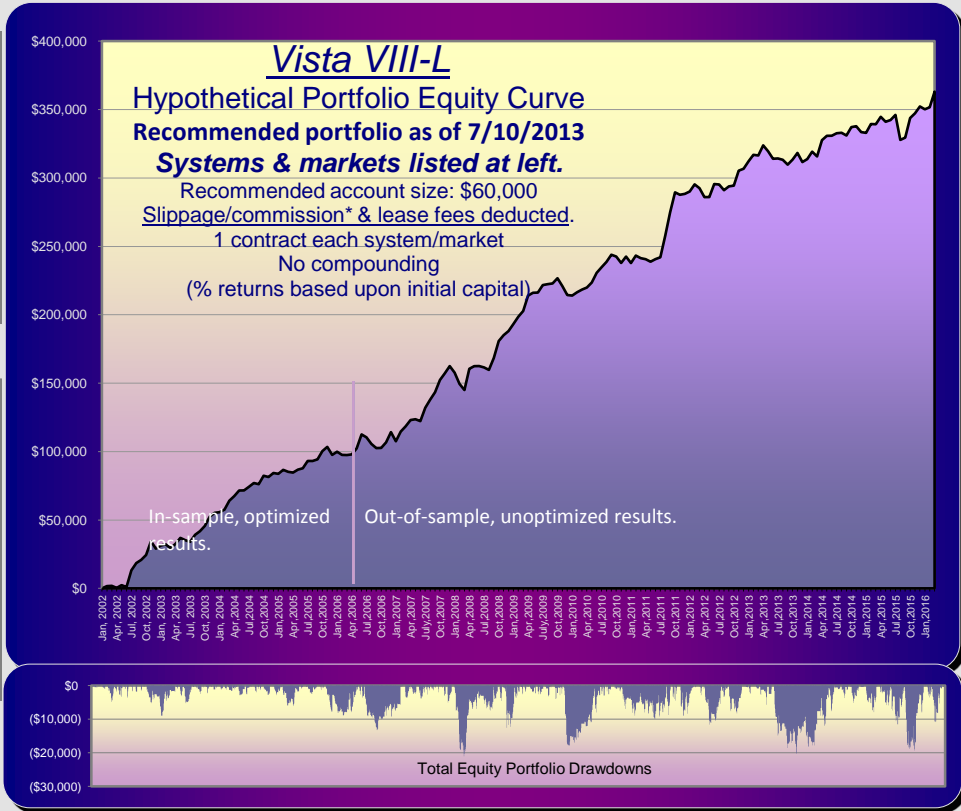
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Metrica WFO ES 2 Sw	0 7/22/02

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Total Profit	\$363,065
Max Drawdown (closed equity)	-\$21,049
Average Max. Drawdown**	-\$20,963
Rec. Account Size	\$60,000
Average Annual Profit	\$25,724
Avg. Annual Return (1 cont.)	42.9%
Total Trades Days	4,398
Percent Winning Trade Days	53.0%
Average Trade Day Profit	\$83
Sharpe Ratio	2.22
Lease fee deducted?	YES



Total Equity (closed trade)

Year	January	February	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Year %	Max DD
2002	22	1,634	192	(1,478)	1,992	(1,386)	12,209	5,312	2,324	3,589	9,992	(5,363)	29,038	48.4%	-8.3%
2003	2,269	907	(2,763)	3,057	4,397	(1,666)	(1,206)	5,097	2,669	3,852	2,752	26,185	26,185	43.6%	-12.5%
2004	484	1,822	6,542	3,369	4,104	59	2,647	2,759	(846)	6,164	(938)	2,954	29,120	48.5%	-4.8%
2005	(621)	2,922	(1,433)	(583)	2,142	1,024	5,362	(51)	1,189	6,059	3,077	(5,851)	13,235	22.1%	-11.5%
2006	2,312	(2,313)	(121)	474	4,394	10,217	(2,141)	(4,776)	(3,081)	117	4,048	7,501	16,630	27.7%	-22.1%
2007	(6,661)	7,074	3,832	4,592	589	(1,381)	9,729	5,927	5,464	8,942	4,889	5,289	48,285	80.5%	-8.4%
2008	(4,816)	(8,213)	(4,461)	15,514	1,904	77	(978)	(1,821)	8,724	12,377	4,264	3,017	25,587	42.6%	-35.1%
2009	5,169	5,307	4,199	11,274	2,034	174	5,467	669	519	3,814	(5,753)	(6,526)	26,347	43.9%	-29.7%
2010	(403)	2,427	1,949	1,514	3,639	7,107	4,064	3,909	5,249	(1,330)	(4,679)	4,679	28,125	46.9%	-12.4%
2011	(4,741)	5,452	(1,893)	(761)	(1,831)	1,884	1,352	15,717	17,187	14,564	(1,768)	654	45,815	76.4%	-14.9%
2012	1,739	5,212	(2,816)	(6,498)	27	9,517	(318)	(4,168)	2,787	547	10,927	1,407	18,360	30.6%	-19.4%
2013	5,402	4,772	(458)	7,394	(4,296)	(5,506)	232	(978)	(3,546)	3,684	4,859	(6,653)	4,905	8.2%	-33.6%
2014	2,157	5,434	(3,491)	11,904	3,177	59	1,807	349	(1,991)	6,122	657	(4,276)	21,908	36.5%	-13.9%
2015	(566)	6,444	(158)	5,447	(3,618)	1,259	3,744	(18,291)	1,702	14,299	3,452	5,012	18,725	31.2%	-32.2%
2016	(2,091)	1,494	11,397										10,800	18.0%	-18.1%
Average													25,724	42.9%	-18.4%

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** Average maximum drawdown of 2,000 Monte Carlo random equity curve simulations as of date portfolio was first created.

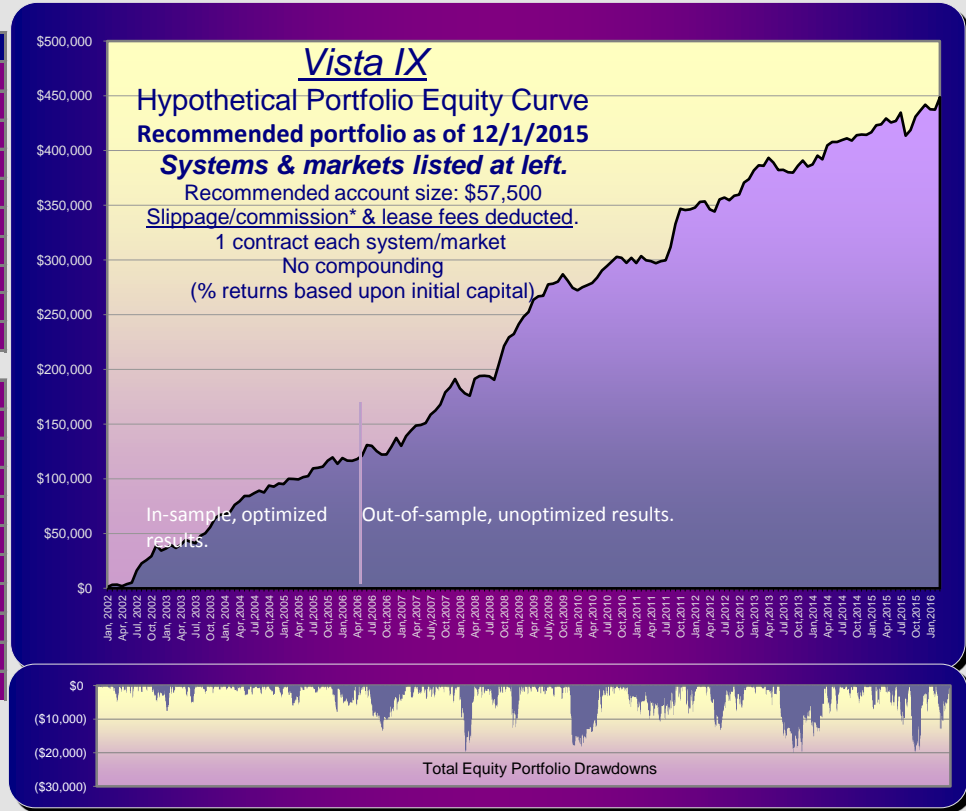
TradingVisions Vista WFO Portfolios: Harness The Power of Diversification

All results are hypothetical. Slippage+commission* & lease fees have been deducted.

Systems & markets included:	OOS* since
Sentinel WFO ES Day	1 7/7/03
Sentinel WFO TF Day	1 3/7/06
Sentinel WFO NQ Day	1 10/3/03
AXIOM II WFO NQ Sw	1 3/5/05
AXIOM II WFO ES Sw	1 2/13/04
Delphi II WFO TF Day	1 2/15/06
Delphi II WFO ES Day	1 2/7/04
Delphi II WFO EM Sw	1 4/1/06
Metrica WFO ES Lev1	1 7/22/02
Metrica WFO ES Lev2	0 7/22/02

* "OOS" = "out-of-sample"

Total Profit	\$448,773
Max Drawdown (closed equity)	-\$19,955
Average Max. Drawdown**	-\$19,270
Rec. Account Size	\$57,500
Average Annual Profit	\$31,715
Avg. Annual Return (1 cont.)	55.2%
Total Trades Days	4,549
Percent Winning Trade Days	53.7%
Average Trade Day Profit	\$99
Sharpe Ratio	1.71
Lease fee deducted?	YES



Total Equity (closed trade)

Year	January	February	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Year %	Max DD
2002	1,155	2,140	140	(1,438)	1,925	1,260	11,143	6,558	2,960	3,538	9,940	(4,808)	34,513	60.0%	-8.5%
2003	1,958	3,118	(2,645)	2,990	4,345	(1,718)	(1,258)	6,678	2,390	5,548	8,105	3,198	32,708	56.9%	-11.4%
2004	433	1,770	6,850	3,303	4,838	18	2,595	2,238	(1,650)	6,320	(990)	2,903	28,625	49.8%	-5.0%
2005	(568)	4,853	(153)	(430)	2,090	945	7,058	545	1,035	5,453	3,025	(5,903)	17,950	31.2%	-12.0%
2006	5,300	(2,365)	(173)	1,543	3,033	9,860	(753)	(4,828)	(3,133)	65	7,020	8,103	23,673	41.2%	-23.3%
2007	(7,263)	8,903	5,090	4,540	538	1,810	7,655	3,825	5,413	11,163	4,630	7,555	53,858	93.7%	-8.7%
2008	(8,690)	(4,460)	(2,200)	15,463	2,598	258	(530)	(3,213)	15,255	15,638	7,990	2,965	41,073	71.4%	-34.1%
2009	9,033	6,723	4,343	11,223	3,128	520	10,408	618	1,888	6,728	(5,805)	(6,578)	42,225	73.4%	-31.0%
2010	(2,310)	2,833	1,898	2,020	4,828	6,573	3,985	4,235	4,280	(928)	(4,628)	4,628	27,413	47.7%	-13.0%
2011	(4,793)	6,385	(3,853)	(813)	(1,883)	1,833	848	12,058	21,175	13,828	(1,150)	603	44,238	76.9%	-15.4%
2012	1,688	5,160	453	(7,218)	(2,055)	11,085	1,728	(2,475)	4,130	990	11,010	3,178	27,673	48.1%	-23.1%
2013	7,923	4,720	(510)	7,343	(4,348)	(6,853)	215	(2,208)	(375)	6,265	4,808	(5,485)	11,495	20.0%	-34.7%
2014	1,903	8,088	(3,435)	12,760	3,125	8	1,755	1,543	(2,043)	4,935	605	(263)	28,980	50.4%	-14.5%
2015	2,348	6,393	810	5,395	(3,670)	1,393	7,638	(21,113)	5,168	12,203	5,595	5,355	27,513	47.8%	-34.7%
2016	(4,173)	(333)	11,345										6,840	11.9%	-22.5%
Average													31,715	55.2%	-19.5%

TradingVisions Systems, Inc.

e-mail: systems@TradingVisions.com
 Phone: 928-554-4052 Fax: 330-248-0034
 www.TradingVisions.com

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Disclosures & Disclaimers page.

TF=e-mini Russell 2000; EM=e-mini Midcap; ES=e-mini S&P 500; NQ=NASDAQ 100.

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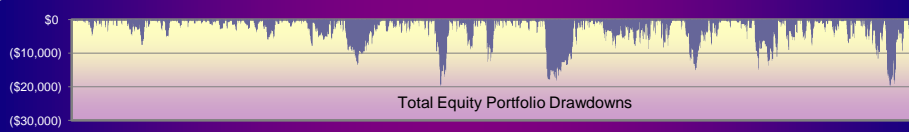
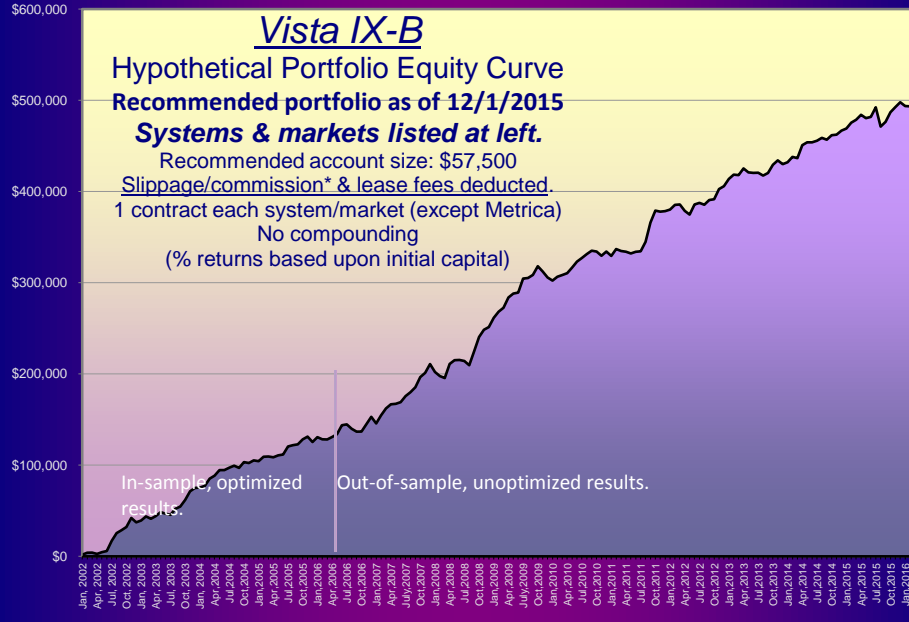
TradingVisions Vista WFO Portfolios: Harness The Power of Diversification

All results are hypothetical. Slippage+commission* & lease fees have been deducted.

Systems & markets included:	OOS* since
Sentinel WFO ES Day	1 7/7/03
Sentinel WFO TF Day	1 3/7/06
Sentinel WFO NQ Day	1 10/3/03
AXIOM II WFO NQ Sw	1 3/5/05
AXIOM II WFO ES Sw	1 2/13/04
Delphi II WFO TF Day	1 2/15/06
Delphi II WFO ES Day	1 2/7/04
Delphi II WFO EM Sw	1 4/1/06
Metrica WFO ES Lev1	0 7/22/02
Metrica WFO ES Lev2	1 7/22/02

* "OOS" = "out-of-sample"

Total Profit	\$499,800
Max Drawdown (closed equity)	-\$19,933
Average Max. Drawdown**	-\$19,270
Rec. Account Size	\$57,500
Average Annual Profit	\$35,322
Avg. Annual Return (1 cont.)	61.4%
Total Trades Days	4,556
Percent Winning Trade Days	53.6%
Average Trade Day Profit	\$110
Sharpe Ratio	1.88
Lease fee deducted?	YES



Total Equity (closed trade)

Year	January	February	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Year %	Max DD
2002	1,850	2,140	140	(1,438)	1,925	1,260	11,143	8,495	3,155	3,538	9,940	(4,808)	37,340	64.9%	-8.5%
2003	1,958	4,538	(2,615)	2,960	4,345	(1,718)	(1,258)	6,678	2,390	7,280	9,455	3,680	37,693	65.6%	-11.4%
2004	433	1,770	7,975	3,273	6,113	13	2,595	2,238	(2,418)	6,320	(990)	2,903	30,223	52.6%	-5.9%
2005	(873)	4,853	260	(835)	2,090	945	8,790	1,433	918	5,453	3,025	(5,903)	20,155	35.1%	-12.0%
2006	5,300	(2,365)	(173)	2,713	3,033	9,860	943	(4,828)	(3,133)	65	8,078	8,103	27,595	48.0%	-23.3%
2007	(7,263)	8,903	7,560	4,540	538	1,810	6,643	4,245	5,413	11,163	4,630	9,675	57,855	100.6%	-8.7%
2008	(8,690)	(4,460)	(2,200)	15,463	4,130	258	(1,118)	(4,655)	15,255	15,638	7,990	2,965	40,575	70.6%	-34.1%
2009	10,115	6,723	4,343	11,223	4,310	1,070	15,398	618	3,383	9,535	(5,805)	(6,578)	54,333	94.5%	-31.0%
2010	(3,375)	4,193	1,898	2,020	6,123	6,573	3,985	4,235	3,738	(928)	(4,628)	4,628	28,460	49.5%	-13.0%
2011	(4,793)	7,535	(2,138)	(813)	(1,883)	1,833	523	10,353	21,175	13,085	(1,150)	603	44,330	77.1%	-15.3%
2012	1,688	5,160	453	(7,010)	(4,085)	11,085	1,728	(2,013)	5,150	878	11,130	3,178	27,340	47.5%	-26.2%
2013	7,923	4,720	(510)	7,343	(4,348)	(553)	180	(3,120)	2,833	9,010	4,808	(4,128)	24,158	42.0%	-26.0%
2014	2,103	5,858	(1,353)	14,193	3,125	8	1,755	3,163	(2,043)	4,935	605	4,395	36,743	63.9%	-13.4%
2015	2,348	6,393	3,218	5,395	(3,670)	1,393	10,495	(21,113)	5,168	10,560	5,595	5,355	31,135	54.1%	-34.7%
2016	(4,173)	(295)	6,335										1,868	3.2%	-22.5%
Average													35,322	61.4%	-19.1%

TradingVisions Systems, Inc.

e-mail: systems@TradingVisions.com
Phone: 928-554-4052 Fax: 330-248-0034
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Disclosures & Disclaimers page.

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*Slippage/commission (roundturn): EM \$50; TF/ES/NQ \$30.

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Purpose: This agreement is solely for the purpose of subscribing to the transmittal of trade signals generated by the TradingVisions trading systems listed below, & for making payment for these signals.

LEASE RATES for e-minis :

- 1-3 contracts (any combination of systems & markets) : \$195 US per quarter per contract (TradeStation & MultiCharts* \$225)
For example, if you want to lease 1 contract of Delphi II WFO TF for a quarter and have a broker trade it for you, the cost would be \$195 total.
- 4-6 contracts: \$175 US per quarter per contract (TradeStation & MultiCharts \$195)
- 7 contracts and more: \$155 US per quarter per contract (TradeStation & MultiCharts \$165)
- **FREE MONTHS:** Pay for 6 months in advance (2 quarters) & get 1 free additional month (7 months total)
Pay for 12 months in advance (4 quarters) & get 3 free additional months (15 months total)

* TradeStation & MultiCharts have higher rates because of the additional programming & support required.

The lease period is in 3, 6, or 12-month increments (1, 2, or 4 quarters). At least five days prior to your lease-period expiration, you will be sent a renewal notice, at which point you will decide and notify TradingVisions if you wish to renew. **Subscription fees are non-refundable.** Once this signed form and your initial subscription fee have been received or authorized, your subscription term begins the next trading day or the date you choose below.

To preserve effectiveness of the systems, TradingVisions reserves the right to limit the number of subscribers &/or contracts traded & to end subscriptions with a thirty-day notice prior to your subscription expiration.

To subscribe to the system(s) signals, please print this form (3 pages total), fill it out, initial each page, & sign. Receipt of a signed copy is required before your subscription can be started. Fax, scan and e-mail, or mail this form to:

TradingVisions Systems, Inc., 351 Palisades Dr N, Sedona, AZ, 86336-6292
telephone: 928-554-4052 fax 330-248-0034 e-mail: systems@tradingvisions.com

Client Name: _____

Full Mailing address+zip: _____

E-mail address: _____ Telephone: _____

1.) Choose your brokerage option (check one):

→ **Date you wish to begin trading, if not the next trading day:** _____

- 1. Broker-Assist:** name of brokerage: _____ broker's name & phone: _____
- 2. TradeStation:** You receive the encrypted strategy & trade it yourself; TradeStation customer number: _____
- 3. MultiCharts:** You receive the encrypted strategy & trade it yourself; MultiCharts version & client account id number: _____

2.) Check the box(es) below of the systems or portfolios you wish to trade, & where applicable, list the number of contracts for each market. You may either A.) choose to make your own combinations of systems and markets, or B.) choose a Vista Portfolio.

A.) Create your own combination. (ES=emini S&P; NQ=emini NASDAQ; TF=emini Russell; EM=emini Midcap)

- Delphi II WFO** ___ TF Day Trade; ___ ES Day Trade; ___ EM Swing Trade
- AXIOM II WFO** ___ ES Swing Trade; ___ NQ Swing Trade
- Sentinel WFO** ___ TF Day Trade; ___ ES Day Trade; ___ NQ Day Trade
- Metrica WFO** ___ ES Swing Trade Level 2; ___ ES Swing Trade Level 1 (Level 1 trades 1 contract at a time; Level 2 trades up to 2)

please
initial: _____

B.) OR choose a Vista Portfolio (see graphic on p.2 below for portfolio components; specialized portfolios available upon request).

- | | |
|---|---|
| <input type="checkbox"/> Vista II (\$390; TS/MC \$450/quarter) | <input type="checkbox"/> Vista III (\$585; TS/MC \$675/quarter) |
| <input type="checkbox"/> Vista IV (\$700; TS/MC \$780/quarter) | <input type="checkbox"/> Vista IV-ES (\$700; TS/MC \$780/quarter) |
| <input type="checkbox"/> Vista V (\$875; TS/MC \$975/quarter) | <input type="checkbox"/> Vista V-L (\$875; TS/MC \$975/quarter) |
| <input type="checkbox"/> Vista VI (\$1050; TS/MC \$1170/quarter) | <input type="checkbox"/> Vista VI-L (\$1050; TS/MC \$1170/quarter) |
| <input type="checkbox"/> Vista VII (\$1085; TS/MC \$1155/quarter) | <input type="checkbox"/> Vista VII-L (\$1085; TS/MC \$1155/quarter) |
| <input type="checkbox"/> Vista VIII (\$1240; TS/MC \$1320/quarter) | <input type="checkbox"/> Vista VIII-B (\$1240; TS/MC \$1320/quarter) |
| <input type="checkbox"/> Vista VIII-L (\$1240; TS/MC \$1320/quarter) | <input type="checkbox"/> Vista IX (\$1395; TS/MC \$1485/quarter) |
| <input type="checkbox"/> Vista IX-B (\$1395; TS/MC \$1485/quarter) | |

TradingVisions Vista WFO Portfolios: Systems & Markets																
System	Markets	Vista II	Vista III	Vista IV	Vista IV ES	Vista V	Vista V-L	Vista VI	Vista VI-L	Vista VII	Vista VII-L	Vista VIII	Vista VIII-B	Vista VIII-L	Vista IX	Vista IX-B
		\$17,500	\$23,000	\$32,500	\$32,000	\$33,000	\$35,500	\$35,000	\$37,500	\$37,000	\$42,500	\$42,000	\$42,000	\$60,000	\$57,500	\$57,500
Delphi II WFO	TF day		1	1		1	1	1	1	1	1	1	1	1	1	1
Delphi II WFO	EM swing													1	1	1
Delphi II WFO	ES day				1		1	1	1	1	1	1	1	1	1	1
Sentinel WFO	ES day	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sentinel WFO	NQ day								1	1	1	1	1	1	1	1
Sentinel WFO	TFday										1	1	1	1	1	1
AXIOM II WFO	ES swing			1	1	1	1	1	1	1	1	1	1	1	1	1
AXIOM II WFO	NQ swing	1	1	1		1	1	1	1	1	1	1	1	1	1	1
Metrica WFO Level1	ES swing				1	1		1		1		1			1	
Metrica WFO Level2	ES swing												1			1
Quarterly Lease Fee: Broker Assist		\$390	\$585	\$700	\$700	\$875	\$875	\$1,050	\$1,050	\$1,085	\$1,085	\$1,240	\$1,240	\$1,240	\$1,395	\$1,395
TradeStation & MultiCharts Rate		\$450	\$675	\$780	\$780	\$975	\$975	\$1,170	\$1,170	\$1,155	\$1,155	\$1,320	\$1,320	\$1,320	\$1,485	\$1,485

"TF"=emini Russell 2000; "EM"=emini Midcap S&P400; "ES"=emini S&P500; "NQ"=emini NASDAQ

3.)

Lease fee calculation: number of e-mini contracts ____ X \$____/contract X 1 / 2 / 4 quarters (circle one)= _____

OR Vista Portfolio quarterly lease \$____ X 1 / 2 / 4 quarters (circle one) =total for Vista Portfolio lease: _____

Sales tax? If you are an Arizona resident, please add your sales tax: _____

If you reside outside the United States, please add 1% to cover the special PayPal credit card surcharge : _____

TOTAL _____

4.) **Choose a payment method (please check the appropriate box):**

- a.) To pay by debiting your brokerage account (limited availability; check with your broker)
- b.) To pay by credit card, we will email you an invoice that enables you to use your credit card through PayPal. **You do not need a PayPal account for this.** If you are a PayPal member and prefer to make your payment now, please log into your account and send your payment to systems@tradingvisions.com. For non-US residents, please add 2% to your bill to cover the special PayPal surcharge.
- c.) To pay by wire, you will need to request wiring instructions from TradingVisions. For international wires, please add \$20 to the total paid, in order to cover the \$20 fee charged by the receiving bank. The number of days for which your lease has been paid will be calculated based on the net amount received, after fees.
- d.) To pay with a personal check (10-day hold), cashier's check, or money order, mail this form to:



TradingVisions Systems, Inc.
351 Palisades Dr N
Sedona, AZ 86336-6292
928-554-4052; fax 300-248-0034

please
initial: _____

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Unless otherwise stated, hypothetical results reported by TradingVisions are those generated by the latest version of the systems, including the specific rules and parameter settings. It is therefore not advisable, nor is it the intended purpose, to use these hypothetical results as a guide to what past results should have been achieved by utilizing the version of the systems in effect at a past time.

TSI makes a good faith effort to see that all trading signals are correctly executed but cannot be held liable for missed or erroneous trades or for an inability or lack of monitoring of client accounts.

No representation is being made that any account will achieve similar results to any other account or actual or hypothetical performance numbers presented in the TradingVisions site or materials. Results can vary significantly from brokerage to brokerage, depending upon many factors not under the control of TradingVisions.

In some cases, slightly different entry and exit times and prices may be used in leased and/or purchased copies of the trading systems, in an attempt to lessen the impact of multiple orders reaching the market at or close to the same time. While over time and an extended number of trades these differences have in the past tended to be small and immaterial, they may in fact prove to have a material impact or over shorter timeframes have a material impact.

AGREEMENT

By leasing a TradingVisions system or portfolio, I, the undersigned, hereby acknowledge that I have read, that I understand, and that I accept the statements, terms and conditions presented in the lease form and agreement text on this page and on the previous page. I am leasing the systems exclusively for my own use in trading my personal funds and will not use the systems to trade the accounts of other parties or allow other accounts to trade the signals.

I agree that I will trade the systems entirely at my own risk and that I will be solely responsible for any losses that may be incurred. I understand that the leasing of the systems includes no guarantee of accuracy or future profitability.

I have been informed about the risks of relying on hypothetical performance and I am aware that any form of past performance is not necessarily indicative of future results.

I understand and agree that any dispute arising out of connected to this agreement will be submitted to binding arbitration or non-binding mediation. I will bear my own expenses in connection with any such arbitration or non-binding mediation. In no event will TradingVisions or its owners or employees be held liable for any costs or damages or losses, direct or indirect, beyond the amount of lease fees paid by me.

I understand and agree that this agreement shall be governed by, construed and enforced in accordance with the laws of the State of Arizona or the current state of domicile for TradingVisions, Inc. Any action or proceeding pursuant to this agreement shall be brought only within Coconino County or the current county of domicile for TradingVisions, Inc.

Signed: (Please initial pages 1 & 2 also.)

Dated: