# SPI_Research_4 - Executive Summary of Processed Data

The following document contains an executive summary of the Sustainable Passive Income (SPI) research project. This page contains an explanation of how to understand the graphs and information that follows. Along with how to utilize this treasure trove!

The first 4 pages of the document serve as graphical organizations for the number of times that a stock ticker appeared in the top 15 stocks based on growth. The data set used is all available data between January 1, 2000, and the present; hence these graphs are a representation of that time frame. There are 4 graphs for a reason, the program does 2 different analyses and then 2 different sub analysis. It analyzes all the stocks it's given, producing a top 15 ranking for the best and worst possible buy configuration of those stocks. Then it does the same thing, but only considering stocks that produce a dividend yield for investors.

After producing the data, described above, we then cross reference all 4 of those analyses (removing duplicates and taking the highest-ranking occurrence value) to produce a list of the top 15 stocks across the entire spectrum (a.k.a. a master list). This ensures that we account for the best performers when things are at their worst and when they are at their best, giving us a hopefully healthier mix and better risk appetite. With that list, we then populate all the remainder pages with the graphed data that we have simulated and calculated in the multidimensional vector analysis.

The 15 pages that follow contain 5 graphs, all of which can be updated dynamically as things change. These are the 15 stocks produced by the list in the last step. The first graph on top contains our growth vectors graph; this is a plot of growth over time for my investment algorithm. Underneath it is 2 bar charts that are a little less intuitive. The one on the right contains each day's ranking distribution vs. each other day. The one on the left is the more intuitive version of it, and it shows the best and worst ranking distributions for that stock. The best and worst days to buy on, which is further summarized and placed in the footer for a more concise answer at a glance. The bottommost graphs contain the same thing as the top graph, but in cash value and share quantity format.

To implement this research into a stock portfolio, such as Robinhood, is quite simple. Armed with the information this document provides should allow for an individual to have an informed understanding of historically how these stocks performed. For setting up the simplest version of the SPI algorithm, start with $15 a week for 52 weeks (1x multiplier), or $780 in starting cash in your account. Set up a recurring buy of $1 on the best day given by the document for each stock. It is as simple as that!

Every year just remember to deposit $780 so that your buying can continue. If you want to scale up, you just need to contribute an extra $780 however many times you'd like to scale. For example, a 3x multiplier would be $3 per stock per week, or $2,340 total. You can technically play around with selling when your invested amount has gained some if you would like. In theory, the snowball effect from even a minuscule contribution every year should result in a pretty portfolio for the investor.

Thank you for reading! Good luck!  - Ben