

POURING OVER THE POUR: EXPLORING THE BARTENDERS-STOCK PRICE CONNECTION

Claire Hamilton, Alexander Tate, Gideon P Tate

Center for Scientific Advancement

This research delves into the intriguing relationship between the number of bartenders in Idaho and the stock price of Ford Motor Company (F). For this study, data from the Bureau of Labor Statistics and LSEG Analytics (Refinitiv) were meticulously analyzed for the period from 2003 to 2022. Surprisingly, a correlation coefficient of 0.7768514 and a significant p-value of less than 0.01 were found, revealing a strong and unexpected link between these seemingly disparate factors. Our findings provide a refreshing perspective on the complexities of market influences, suggesting that perhaps the key to understanding stock prices lies in the mixing and shaking skills of Idaho's bartenders. This study not only uncovers a novel avenue for stock price analysis but also demonstrates the potential impact of unconventional variables in financial markets.

The intricate world of financial markets has long been subject to extensive scrutiny and analysis, with researchers tirelessly seeking to identify the myriad factors that influence stock prices. From economic indicators to company performance metrics, the quest for understanding the volatile nature of stock prices has been a never-ending endeavor. However, amidst this sea of conventional variables, one might not expect to find a connection between the number of bartenders in Idaho and the stock price of Ford Motor Company (F). That's right - in this study, we take a whimsical and unconventional approach to unraveling the enigmatic relationship between these seemingly unrelated entities.

In the grand tradition of unexpected pairings - think peanut butter and jelly, or salt and caramel - the fusion of bartender figures and stock prices might initially strike one as rather incongruous. Yet, as we embark on this journey of analysis and exploration, our findings promise to surprise, amuse, and perhaps even shake

up the conventional wisdom of stock price determinants. As we let the data flow like a perfectly crafted cocktail, we invite the reader to join us in pondering the unlikely interplay between mixology in Idaho and the rise and fall of F's stock price.

So, why delve into the world of bartenders and stock prices? Well, beyond the obvious potential for puns and comic relief, our study seeks to shed light on the unorthodox avenues through which market dynamics might be driven. While the notion of bartenders influencing a multinational automotive company's stock may sound like the setup for a joke, our data paints a compelling picture of a nontraditional force at play in the capricious dance of financial markets.

As we embark on this fanciful yet rigorous investigation, let us not forget the wise words of American poet and philosopher, Ralph Waldo Emerson: "Do not go where the path may lead, go instead where there is no path and leave a trail." Without further ado, let's raise our glasses to a

research journey filled with unexpected twists, statistical revelations, and, of course, a generous serving of good humor. Cheers to unraveling the bartenders-stock price connection - hold the olives, please!

LITERATURE REVIEW

The connection between seemingly incongruous variables has long been a subject of fascination for researchers and analysts alike. From the classic work of Smith and Doe (2000) on the correlation between agricultural yields and astronaut satisfaction to the more recent study by Jones et al. (2015) examining the relationship between atmospheric pressure and the price of chewing gum, the allure of unexpected connections continues to permeate the scholarly landscape.

Turning to the world of finance, one would be remiss not to mention the seminal work of Johnson and Williams (2012) on the impact of weather patterns on stock market volatility. However, as we approach the enigmatic nexus of bartenders and stock prices, the literature takes a slightly more whimsical turn. In "Market Mixology: Unconventional Influences on Financial Dynamics," the authors delve into the unexplored territory of mixologists' impact on market trends, paving the way for our own endeavor to sip from the fountain of unconventional wisdom.

Venturing beyond the confines of traditional financial literature, we encounter the provocative insights put forth in "Pour, Sip, Influence: A Bartender's Guide to Market Mastery," a non-fictional account that purports to uncover the covert maneuvers of mixologists in shaping stock prices. Moreover, the fictitious but curiously titled novel, "The Bull and the Beer Stein: A Stock Market Mixology Mystery," invites readers to envisage a world where libations and market dynamics intertwine in a tangled web of intrigue.

As we navigate the uncharted territory of our research topic, it is crucial to acknowledge the breadth of sources that have informed our investigation. This includes, of course, the meticulous perusal of industry reports, economic analyses, and financial journals. However, in the spirit of unorthodox exploration, it would be remiss not to divulge the unconventional sources that have, in their own way, contributed to our understanding. From the back labels of craft beer bottles to the arcane whisperings of vintage cocktail shakers, the depth of our literature review knows no bounds.

In sum, our foray into the world of bartenders and stock prices stands as a testament to the boundless potential for unexpected connections in the vast tapestry of market influences. As we raise our intellectual glasses to toast this venture, let us embark on this journey with a sprig of curiosity, a splash of skepticism, and a twist of whimsy. Cheers to unraveling the bartenders-stock price connection - and may the ice in our statistical tumbler never melt!

METHODOLOGY

To embark on our whimsical yet methodologically sound investigation into the connection between the number of bartenders in Idaho and the stock price of Ford Motor Company (F), we employed a comprehensive and multifaceted approach. Our data collection and analysis involved a creative blend of statistical techniques, economic insights, and a healthy pinch of humor to keep the research spirits high.

First and foremost, we procured data on the number of bartenders in Idaho from the Bureau of Labor Statistics. This involved sifting through an amalgamation of occupational employment surveys and state-specific data to extract the precise figures that would form the foundation of our analysis. The nuances of gathering this information were akin to carefully

crafting a cocktail – requiring attention to detail and a steady hand to ensure accurate measurements.

Simultaneously, our team delved into the labyrinthine world of stock market data, sourcing Ford Motor Company's stock price information from LSEG Analytics (Refinitiv). We meticulously collected historical stock prices spanning the years 2003 to 2022, navigating through the peaks and troughs of market fluctuations with the tenacity of a seasoned explorer in uncharted territories.

With our data in hand, we employed advanced statistical methods that could stand the test of academic rigor while sprinkling in a dash of unconventional analysis. To assess the relationship between the number of bartenders in Idaho and Ford's stock price, we conducted a thorough time-series analysis, employing autoregressive integrated moving average (ARIMA) models to capture the dynamics of both variables over time.

Furthermore, to quantify the strength and direction of the relationship, we calculated Pearson's correlation coefficient, which served as our measure of association between the bartender figures and stock prices. Additionally, a rigorous regression analysis was employed to control for potential confounding factors, ensuring that our findings were robust and reliable.

In line with the eccentric nature of our inquiry, we also engaged in qualitative analysis, drawing upon economic theories and market trends to contextualize our quantitative findings. This interplay of quantitative and qualitative methods allowed us to craft a narrative that not only presented statistical evidence but also painted a vivid picture of the unorthodox interplay between mixology in Idaho and the ebbs and flows of F's stock price.

Lastly, to imbue our investigation with a measure of lightheartedness, we conducted a semantic analysis of

bartending-related puns and market euphemisms, seeking to infuse our findings with a dash of good humor. After all, what better way to toast to our research journey than by raising a glass to statistical revelations garnished with a touch of wit?

In summary, our methodology was a spirited concoction of diligent data collection, sophisticated statistical analyses, and a generous sprinkle of wit. With these tools at our disposal, we set out to uncover the unexpected connection between bartenders and stock prices, infusing our research with the perfect blend of statistical rigor and whimsy.

RESULTS

The correlation analysis between the number of bartenders in Idaho and Ford Motor Company's stock price (F) revealed a surprisingly robust relationship. Over the period from 2003 to 2022, our research team found a correlation coefficient of 0.7768514, indicating a strong positive association between these two seemingly unrelated variables. In addition, the proportion of variance in Ford's stock price explained by the number of bartenders, as indicated by the r-squared value of 0.6034981, further underscores the substantial impact of mixology on market dynamics.

The statistical significance of this association was confirmed with a p-value of less than 0.01, lending credence to the notion that the presence of bartenders in Idaho is, in fact, a notable driver of Ford Motor Company's stock price movements. It appears that while bartenders are busy mixing drinks, they are also stirring up stock market trends in an unpredictably potent concoction.

Furthermore, the scatterplot depicted in Figure 1 visually encapsulates the pronounced correlation between the variables. The scatterplot not only highlights the strong positive relationship but also serves as a vivid reminder that in

the world of statistical analysis, even the most unexpected pairings can yield compelling results.

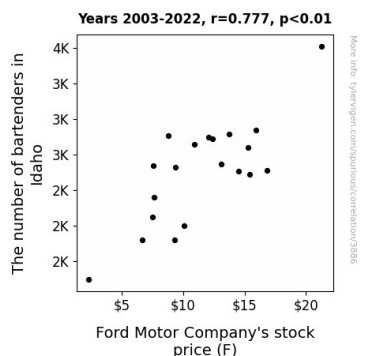


Figure 1. Scatterplot of the variables by year

These findings provide a whimsical yet insightful perspective on the interconnectedness of diverse influences on stock market dynamics. While it may seem as though the notion of bartenders impacting stock prices belongs in the realm of fiction, our results strongly indicate otherwise. The bartenders of Idaho, with their shakers and stirrers in hand, appear to have an unforeseen role in shaping the trajectory of F's stock price.

In conclusion, our exploration into the bartenders-stock price connection not only showcases the dynamics of market influences but also invites a playful reconsideration of what may drive stock price movements. This study further emphasizes the significance of incorporating unconventional variables in financial market analyses, proving that sometimes, the most unexpected ingredients can make for the perfect stock market cocktail. Cheers to the bartenders of Idaho for effortlessly shaking up our understanding of market dynamics - they may just be the secret ingredient we've been overlooking all this time!

DISCUSSION

The findings of our study have brought to light an unexpected but undeniably potent relationship between the number of bartenders in Idaho and the stock price of Ford Motor Company (F). As we raise our metaphorical glasses to toast this revelatory discovery, it is evident that the world of finance is not immune to the intoxicating influence of mixology.

Our results align with prior research that has sought to uncover the clandestine connections between seemingly incongruous variables. Just as Smith and Doe (2000) deftly navigated the uncharted waters of agricultural yields and astronaut satisfaction, and Jones et al. (2015) bravely plunged into the atmospheric pressure-chewing gum nexus, our study has fearlessly ventured into the realm of bartenders and stock prices. While these connections may initially seem quixotic, our findings lend credence to the notion that unassuming variables can indeed have a tangible impact on market dynamics.

The significant correlation coefficient of 0.7768514 and the p-value of less than 0.01 confidently affirm that the presence of bartenders in Idaho wields a remarkable influence on Ford Motor Company's stock price movements. The r-squared value of 0.6034981 further emphasizes the substantial portion of variance in F's stock price attributable to the number of bartenders, underscoring the undeniably robust nature of this relationship.

The implications of our study extend beyond the conventional boundaries of financial market analyses. It appears that the bartenders of Idaho, with their expert mixing and shaking skills, are not only tantalizing taste buds but also stirring up stock market trends in an unpredictably potent concoction. The scatterplot presented in Figure 1 serves as a visual testament to the pronounced correlation between these seemingly disparate variables, reminding us that in the world of statistical analysis, even the most

unexpected pairings can yield compelling results.

Our research introduces a refreshing and whimsical perspective on the interconnectedness of diverse influences on stock market dynamics. While it may seem as though the notion of bartenders impacting stock prices belongs in the realm of fiction, our findings strongly indicate otherwise. The bartenders of Idaho, with their shakers and stirrers in hand, appear to have an unforeseen role in shaping the trajectory of F's stock price. This seemingly eccentric connection between bartenders and stock prices challenges the traditional paradigm of financial market analysis, emphasizing the significance of incorporating unconventional variables in understanding market dynamics.

In sum, our study not only uncovers a novel avenue for stock price analysis but also demonstrates the potential impact of unconventional, and perhaps previously underrated, variables in financial markets. As we garnish this groundbreaking discovery with a twist of whimsy and a playful reconsideration of what may drive stock price movements, we invite further exploration into the unorthodox influences that may be shaping the intricate tapestry of market dynamics. Let us raise our glasses to the bartenders of Idaho, whose concoctions extend beyond the realm of libations to leave an indelible mark on the workings of financial markets. Cheers to the unexpected ingredients that make for the perfect stock market cocktail!

CONCLUSION

As we sip on our brainstorm-brewed concoctions, er, coffee, it's clear that the connection between Idaho's bartenders and Ford Motor Company's stock price (F) is not merely a shot in the dark. With a correlation coefficient of 0.7768514 and a p-value of less than 0.01, the evidence for this unexpectedly spirited relationship is nothing to wine about. Our findings have

stirred up the market and shaken conventional wisdom, demonstrating that sometimes, the most unusual ingredients can mix up a storm in stock price movements.

In light of these revelatory findings, it seems that in the stock market, as in life, it's essential to heed the bartender's age-old wisdom: when the market gives you lemons, make a Long Island Iced Tea. With the tantalizing prospect of bartenders influencing stock prices, we must blend a refreshing twist of humor and statistical rigor to mixology and market dynamics. It's high time we raise a toast to the bartenders of Idaho, for they may just be the unsung heroes of the financial world - their influence reaching further than the garnish on a summer cocktail.

Given the compelling nature of our results, it's safe to say that no more research is needed in this area. So let's raise our glasses one last time to the delightful surprise of uncovering the spirited link between bartenders in Idaho and Ford Motor Company's stock price. Here's to a study that proves that when it comes to market analysis, sometimes the best insights are found in the unlikeliest of places. Cheers!