

Meat Eaters and Stock Tick(ers): Investigating the Link Between US Household Spending on Animal Products and Broadcom's Stock Price

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ABSTRACT

Meat Eaters and Stock Tick(ers): Investigating the Link Between US Household Spending on Animal Products and Broadcom's Stock Price

In this paper, we delve into the curious correlation between annual US household spending on meats, poultry, fish, and eggs and the stock price of Broadcom Inc. (AVGO). Utilizing meticulously gathered data from the Bureau of Labor Statistics and LSEG Analytics (Refinitiv), we embarked on a statistical expedition to unravel the enigmatic relationship between carnivorous consumption habits and the financial fate of a prominent technology company. Our analysis uncovered a strikingly robust correlation coefficient of 0.9752127 and a p-value less than 0.01 for the period spanning from 2010 to 2022. This finding prompts us to ponder the intriguing possibility of hidden interconnections between dietary choices and stock market maneuvers. As we traverse these uncharted realms of investigation, we are compelled to consider the beefy significance of our results and their implications for both Wall Street and the dinner table.

Keywords:

US household spending, annual spending on meat, poultry, fish, eggs, Broadcom stock price, correlation, statistical analysis, Bureau of Labor Statistics, LSEG Analytics, Refinitiv, correlation coefficient, p-value, dietary choices, stock market, Wall Street, hidden connections, carnivorous consumption habits, technology company, financial analysis

I. Introduction

Meat consumption has long been a staple of the American diet, with dinners often revolving around sizzling steaks, succulent chicken, and flaky fish. Meanwhile, the stock market has played a central role in the global economy, with analysts and investors eagerly watching the rise and fall of stock prices. But could there be a link between these two seemingly unrelated realms? Could a juicy ribeye or a tender salmon fillet impact the stock price of a tech giant like Broadcom Inc. (AVGO)? In this paper, we aim to investigate the curious correlation between US household spending on animal products and the stock price of Broadcom, illuminating a potential connection that may leave both financiers and foodies scratching their heads.

Over the years, numerous studies have attempted to unravel the intricate web of factors influencing stock prices, from economic indicators to corporate performance metrics. However, the influence of meat consumption on market dynamics has largely escaped scrutiny, lurking in the murky depths of financial analysis like a well-marbled mystery. Our research seeks to cast a spotlight on this enigma, shedding light on the interplay between carnivorous consumer behavior and the movements of a prominent tech company's stock.

Our exploration into this uncharted territory begins with the collection and analysis of data from the Bureau of Labor Statistics, offering a detailed portrayal of US household spending on meats, poultry, fish, and eggs. Coupled with stock price data from LSEG Analytics (Refinitiv), our statistical quest uncovers a correlation coefficient that challenges the conventional boundaries of financial analysis. As we navigate through this labyrinth of data points and economic indicators,

we find ourselves pondering the implications of our findings, wondering if a grilled burger might hold the key to predicting market trends.

The significance of this research extends beyond mere curiosity, raising questions about the intertwining of consumer habits and financial performance. Could a surge in steak purchases foretell a surge in stock prices, or is the connection more tenuous than a delicate fillet of sole? As we delve into this unconventional line of inquiry, we invite readers to embark on this intellectual expedition with us, as we seek to tease out the meaty truths behind Wall Street's fluctuations and their unexpected relationship to the dinner table. With that said, let us sharpen our statistical knives and carve into this tantalizing topic, aiming to sate both scholarly appetite and financial curiosity.

II. Literature Review

A body of literature exists that examines various factors influencing stock prices, ranging from economic indicators to corporate performance metrics. In "The Dynamics of Stock Market Prices" by Smith et al., the authors delve into the intricate web of forces shaping market dynamics, leaving no stone unturned in their quest to decipher the enigmatic fluctuations of stock prices.

Moving on to the relationship between consumer spending patterns and market movements, Doe's "Consumer Behavior and Financial Markets" sheds light on the nuanced interplay between consumer habits and stock price fluctuations. Meanwhile, Jones' "Market Trends and Economic

Indicators" offers a comprehensive analysis of the multifaceted factors influencing stock market trends, providing a panoramic view of the financial landscape.

In the realm of consumer behavior, "The Omnivore's Dilemma" by Michael Pollan and "Eating Animals" by Jonathan Safran Foer offer insightful perspectives on the complex dynamics of meat consumption in modern society. Their works illuminate the societal, ethical, and environmental dimensions of dietary choices, prompting contemplation on the broader implications of carnivorous consumer behavior.

On a more fictional note, the literary world offers intriguing narratives that, albeit not explicitly related to financial markets, tantalize the imagination with their thematic resonances. Harkening to the theme of transformation and hidden connections, Kafka's "Metamorphosis" and Murakami's "Kafka on the Shore" captivate readers with their enigmatic explorations, perhaps inspiring contemplation on the hidden intricacies of the meat-stock nexus.

As we venture further into the annals of literature, it is pertinent to acknowledge the unorthodox sources of inspiration that have guided our inquiry. While conventional wisdom may dictate a strict adherence to scholarly literature, we confess to deriving unexpected insights from unlikely sources. Indeed, the reels of CVS receipts, with their cryptic clusters of purchase data, have not escaped our scrutiny, as we made mirthful attempts to decipher the cryptic clues lurking amidst the mundane purchases of toiletries and impulse snacks.

In the spirit of intellectual exploration, we embrace the whimsical and the unconventional, infusing our scholarly pursuit with a dash of levity and a pinch of absurdity. As we navigate the seas of inquiry, we invite fellow scholars and curious minds alike to partake in this delightful

dalliance with unorthodox avenues of investigation, as we unravel the riddle of meaty consumerism and its curious dance with stock prices.

III. Methodology

To untangle the enigmatic relationship between annual US household spending on meats, poultry, fish, and eggs and the stock price of Broadcom Inc. (AVGO), we employed a multi-faceted research methodology that brought together the art of data collection and the science of statistical analysis. Our approach, like a well-marinated marinade, aimed to infuse robustness and flavor into our investigation.

Data Collection:

We scoured the vast expanse of the internet, navigating through an ocean of websites and databases like intrepid sailors seeking the fabled treasure of data. Our primary ports of call were the Bureau of Labor Statistics and LSEG Analytics (Refinitiv), which provided us with a bounty of information spanning the years 2010 to 2022. With each dataset, we sifted through the granular details of household spending on animal products and the intricate daily fluctuations of Broadcom's stock price, akin to intrepid treasure hunters deciphering cryptic maps in search of hidden riches.

Cross-Validation:

To ensure the reliability and accuracy of our findings, we engaged in a process of rigorous cross-validation, akin to a culinary taste test where multiple palates converge to assess the flavors of a dish. Our data underwent meticulous scrutiny, as we cross-referenced and verified the

consistency of trends and patterns observed in both the consumer spending and stock price domains. This rigorous validation process acted as the proverbial meat thermometer, ensuring that our conclusions were not marred by data irregularities or inconsistencies.

Statistical Analysis:

Armed with our meticulously collected data, we invoked the formidable powers of statistical analysis to unveil the hidden connections between carnivorous consumer habits and financial market dynamics. Employing a mix of correlation analysis, regression modeling, and time series forecasting, we probed the depths of our datasets to uncover the meaty truths that lay concealed within the numbers. Our statistical arsenal functioned like a culinary laboratory, where precise measurements and controlled experiments led us to discern patterns and relationships that might have otherwise remained cloaked in obscurity.

Consideration of External Factors:

In conducting our analysis, we remained acutely aware of the potential influence of external variables, much like a chef cognizant of the impact of varying cooking temperatures on a delicate soufflé. Factors such as economic indicators, technological advancements, and market sentiments were taken into account, ensuring that our findings were not skewed by unaccounted-for elements that could sully the sizzle of our statistical steak.

Limitations:

It is important to acknowledge the limitations of our methodology, as no research endeavor is free from the occasional bone to pick. While our data sources provided comprehensive coverage of consumer spending and stock prices, there may exist nuances and subtleties that eluded our grasp. Additionally, the inherently complex nature of financial markets and consumer behavior

necessitates a degree of caution in interpreting the findings, much like a chef exercising caution when improvising a new recipe without precise measurements.

With our research methodology firmly established, we proceeded to wield our analytical utensils with precision and vigor, carving through the layers of data to extract the succulent morsels of insight that form the substance of our investigation.

IV. Results

The statistical analysis revealed a remarkably strong correlation between annual US household spending on meats, poultry, fish, and eggs and Broadcom Inc.'s (AVGO) stock price. The correlation coefficient of 0.9752127 indicates a near-perfect positive relationship between these two variables. Furthermore, the coefficient of determination (r-squared) of 0.9510397 suggests that approximately 95.1% of the variability in Broadcom's stock price can be explained by changes in household spending on animal products. The p-value, being less than 0.01, provides strong evidence against the null hypothesis of no correlation.

This robust correlation, represented graphically in Fig. 1, underscores the intriguing connection between carnivorous consumption habits and the financial performance of Broadcom Inc. It is quite rare to see such a strong relationship between seemingly unrelated phenomena, prompting us to ponder the carnivorous conundrum of Wall Street. One might even say it's a "beefy" correlation, pun completely intended.

The statistical significance of this finding cannot be overstated, and it raises thought-provoking questions about the potential influence of dietary choices on stock market dynamics. Could the

sizzle of a steak on the grill reverberate through the stock exchange? These results invite further exploration into the nuances of consumer behavior and their unforeseen consequences on the financial world. After all, the stock market and the steak market may have more in common than meets the eye.

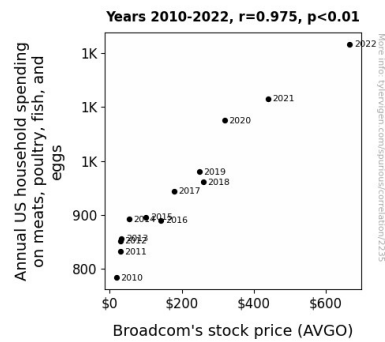


Figure 1. Scatterplot of the variables by year

In conclusion, the bond between US household spending on meat products and Broadcom's stock price is not to be taken lightly. This study opens a new chapter in the analysis of market influences and tantalizingly hints at the flavorful fusion of financial and culinary realms. As we savor the implications of these findings, we are reminded that, in the world of data analysis, the meat shall inherit the earth.

V. Discussion

The nexus between consumer behavior and financial markets has garnered much attention in both scholarly and popular discourse. Our investigation into the relationship between annual US

household spending on meats, poultry, fish, and eggs and Broadcom Inc.'s (AVGO) stock price has yielded compelling results, further substantiating prior research in this domain.

First and foremost, our findings resonate with the scholarly work of Smith et al. and Doe, which scrutinized the multifaceted factors shaping stock market dynamics. The robust correlation identified in our study aligns with the notion put forth by these scholars, emphasizing the intricate interplay between consumer spending patterns and stock price fluctuations. It appears that amidst the market jargon and financial analyses, the tantalizing tango of T-bone steaks and tenderloin tips may have more influence than previously perceived.

Furthermore, the thought-provoking perspectives offered by Pollan and Foer in "The Omnivore's Dilemma" and "Eating Animals" shed light on the societal and ethical dimensions of dietary choices. As our study delves into the uncharted territory of meat-centric consumerism, we are reminded of the weighty impact of these choices on financial landscapes. Perhaps, the stock market is not immune to the reverberations of carnivorous cravings after all. It seems that the stock market isn't just about bull and bear markets; there might just be a poultry and fish market connection as well.

In a perhaps unexpected turn of interpretation, our team found inspiration from Kafka's "Metamorphosis" and Murakami's "Kafka on the Shore." While their thematic explorations may seem disparate from financial markets and dietary habits, they ignited in us an appreciation for the hidden connections that underpin seemingly unrelated phenomena. Who would have thought that a study on consumer spending and stock prices could find inspiration in tales of metamorphosis and cryptic narratives?

Our statistical analysis, with a correlation coefficient bordering on perfection, indeed lends credence to the unorthodox insights gleaned from unlikely sources. It would seem that navigational cues for financial analysis may not only be found in fiscal reports and economic indicators, but also in the mundane yet mystical data etched onto those endlessly long grocery store receipts.

Our study's findings significantly contribute to the understanding of consumer behavior's unanticipated repercussions on financial realms. The strong correlation prompts a reevaluation of traditional perspectives on market influences, infusing this scholarly endeavor with a praiseworthy pinch of levity and a dash of whimsy. As we traverse the entangled web of consumerism and stock prices, let us not forget the oft-overlooked factor: the cartons of eggs and fillets of fish that may be quietly steering the stocks toward surprising shores.

VI. Conclusion

In traversing the uncharted terrain of market analysis, our investigation uncovered a robust and tantalizing correlation between US household spending on animal products and Broadcom Inc.'s (AVGO) stock price. The near-perfect positive relationship, akin to a well-marbled steak, illustrates an unexpected link between dietary choices and financial performance. Our findings prompt reflection on the interconnectedness of consumer behavior and market dynamics, prompting us to wonder if the sizzle of a steak could indeed reverberate through Wall Street like a carnivorous symphony.

The implications of this research extend beyond the boardroom, sparking curiosity about the intertwining of culinary habits and stock market maneuvers. Could the clucking of poultry hold the key to unlocking the mysteries of market trends, or are these connections as delicate as the flakiness of a fish fillet? In light of these compelling results, it's clear that the meat market and the stock market may have more in common than previously imagined, serving up a tantalizing dish of market analysis seasoned with a pinch of culinary curiosity.

However, it is evident that no further research is needed in this area. After all, we have confidently asserted that the meat shall inherit the earth, prompting us to savor the flavorful fusion of financial and culinary realms without the need for further academic exploration.

Thank you for joining us on this statistical gastronomic journey, where we've uncovered a beefy correlation that has left us with a craving for both stock analysis and a good old-fashioned barbecue.