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# Butter and Deere & Company: Buttering Up Stock Prices

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## KEYWORDS

Butter consumption, Deere & Company, stock price, dairy staple, agricultural machinery, USDA data, LSEG Analytics, correlation coefficient, p-value, financial analysis, market performance, stock market dynamics, unusual connections, everyday commodities, financial markets

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## Abstract

The quest to understand the peculiar ties between butter consumption and the stock performance of Deere & Company has long perplexed investors and analysts alike. Our study delves deep into this unconventional relationship between a dairy staple and the stock price of one of the leading manufacturers of agricultural machinery. Leveraging data sourced from the USDA and LSEG Analytics (Refinitiv) over the period of 2002 to 2021, we sought to unravel the mysterious correlation that has eluded scholars for decades. Our findings reveal a startling correlation coefficient of 0.8997447 and a statistically significant p-value of less than 0.01, establishing a robust connection between butter consumption and the fluctuations in Deere & Company's stock price. Evidently, when it comes to Deere & Company's success, butter must not be underestimated – quite a buttery discovery, one might say. With unanticipated outcomes and quirky associations, this research sheds light on the unexpected variables that can influence stock market dynamics. Our study aims to encourage a broader exploration of unlikely connections in financial analyses, while simultaneously providing an amusing anecdote to ignite more interest in the interplay between everyday commodities and market performance. After all, who would have thought that butter could churn up stock prices in the world of financial markets?

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## 1. Introduction

Butter. The creamy, golden elixir that elevates our taste buds while

simultaneously stirring up a plethora of health debates. Deere & Company, on the other hand, is a stalwart in the realm of agricultural machinery, plowing its way

through the stock market. But what if we told you that these two seemingly unrelated entities are actually entwined in an enigmatic dance of market influence?

Now, before you say we've churned out an utterly ridiculous hypothesis, let's consider this peculiar connection with an open mind. Butter may be the bread and butter of our culinary endeavors, but could it also have a knack for greasing the wheels of stock prices? We embarked on this quest armed with nothing but a spatula and a stock ticker, uncovering the intriguing correlation between butter consumption and the performance of Deere & Company's stock (DE). It's enough to make one wonder if investors and cows have more in common than meets the eye.

As we delve into the curdled depths of this relationship, we strive to approach our findings with the requisite sophistication and statistical scrutiny – no need to spread any thinly-veiled assumptions here! Our study plows through years of meticulously collected data, weeding out confounding variables to unearth a robust association between butter and the fluctuation in Deere & Company's stock price. It seems that, like a can of whipped cream, there's more to this correlation than meets the eye – a revelation that may butter up the financial world.

Skeptics may raise an eyebrow at this unconventional investigation, but rest assured, we have wielded the tools of statistics with utmost care and precision. Our findings boast a correlation coefficient that is nothing short of "gouda" – a whopping 0.8997447, to be exact. Pair that with a p-value of less than 0.01, and we've got a statistical concoction that even the staunchest research purists would be "butter off accepting." With such compelling evidence, it appears that whether in the kitchen or the stock market, butter commands a power that is not to be underestimated.

In the realm of financial analysis, our research stands as a reminder that even the most unexpected variables can hold sway over market dynamics. So, it's high time we embrace the peculiar, the offbeat, and the seemingly unrelated in our quest for deeper insights. Who knows? The world of finance may yet be filled with hidden correlations more surprising than finding jam in the butter churn – and as for our findings, well, they're certainly no mere "spread" of imagination!

## 2. Literature Review

Several studies have delved into the intricate web of relationships between consumer behavior and stock prices, but few have ventured into the uncharted territory of butter consumption and its curious impact on the stock performance of Deere & Company. In "Smith et al.'s Analysis of Unconventional Market Influences," the authors investigate a myriad of obscure connections within financial markets, yet fail to mention the potential sway of dairy products on agricultural machinery stocks. Similarly, Doe and Jones' "Financial Quirks and Mysteries Unveiled" offers an extensive analysis of unconventional market variables, but curiously overlooks the tantalizing allure of butter in the context of Deere & Company's stock price.

As we navigate through the rich tapestry of finance and food, it becomes evident that the literature on this quizzical correlation is as sparse as a slice of butter in a low-fat diet. Nevertheless, we must not underestimate the power of unexpected variables, for as "Book" by Lorem and Ipsum attests, the most profound discoveries often stem from the most eccentric of hypotheses.

Turning to non-fiction works, "The Economics of Dairy Products" by Milk and Churn provides a scholarly exploration of

the dairy industry, shedding light on the potential influence of butter consumption on the agricultural sector. On the other hand, "Agricultural Machinery: A Tale of Innovation" by Tractor and Plow recounts the evolution of farming equipment, prompting one to ponder if the greasy whims of butter have nestled their way into the gears of financial performance.

Venturing further into fictional realms, "The Butter Conspiracy" by Margarine Butterfield hints at clandestine machinations within the dairy sector, beckoning readers to contemplate if the plot is thicker than it seems. Additionally, "The Stock Price and the Scone" by Baker Yeast is a whimsical tale that, while seemingly unrelated, prompts one to consider the crossroads of food and finance in a palatable narrative.

In a bid to thoroughly exhaust the sources on this offbeat investigation, the authors left no stone unturned, treading to the fringes of absurdity in the pursuit of knowledge. In a surprising twist, it was discovered that even the backs of shampoo bottles held no yieldable secrets related to the confounding affair of butter and Deere & Company's stock price. It appears that this peculiar correlation may be destined to carve its own path through the annals of financial enigma, leaving researchers to churn out quirky hypotheses that may just butter up the conversation in future scholarly pursuits. After all, when it comes to unraveling the mysteries of the market, one must be willing to spread their net wide – or should we say, spread the butter thinly.

### 3. Our approach & methods

#### Methodology

The methodology employed in this study aimed to uncover the mysterious correlation between butter consumption and the stock performance of Deere & Company (DE). Our data collection process resembled a

detective's pursuit of clues, combing through information from the USDA and LSEG Analytics (Refinitiv) during the period from 2002 to 2021. We assembled an eclectic assortment of data points, much like a recipe for a peculiar financial stew – one that leaves you wondering if you accidentally added butter instead of broth. Did you hear about the scientist who got chilled by liquid nitrogen? He said he was zero K. But enough of these cold puns, let's warm up to the methodological intricacies of our investigation.

To map out the trajectory of butter consumption, we acquired data from various sources, ensuring that our exploration of this creamy commodity was as comprehensive as a buffet spread. From per capita butter consumption in pounds to global production figures, we sieved through the data with the diligence of a pastry chef sifting flour, all in pursuit of the perfect pie crust – or in our case, the perfect correlation.

As for the stock price of Deere & Company (DE), we ventured into the labyrinthine world of financial data with the same fortitude as a farmer navigating a corn maze. Our team scrutinized daily stock prices, historical trends, and analyst reports, constructing a mosaic of market movements that rival even the most intricate agricultural patterns.

With an eye for statistical precision and a penchant for the unexpected, we unleashed the power of correlation analysis. Like alchemists fashioning gold from base metals, we sought to distill meaningful insights from the sea of data at our disposal. We wielded correlation coefficients and p-values like spells from an arcane tome, spinning an analytical web that not even Arachnophobia could match.

Our methodology also included the application of sophisticated statistical models to explore the nuances of this

association. We unleashed the formidable might of regression analysis to disentangle the web of interconnections between butter consumption and DE stock performance, akin to unraveling a braided loaf of challah.

Beyond the quantitative vantage point, our study embraced a qualitative appraisal of market trends and consumer behaviors. We conducted interviews and focus groups with industry experts, consumers, and market analysts – a veritable chorus of voices contributing to the symphony of our findings. It's almost as though we gathered around a campfire, swapping stories about churning butter and turning market tides.

Our data set swelled like a rising soufflé, encompassing a multitude of variables such as economic indicators, global trade patterns, and consumer sentiments. We employed robust methodologies to control for confounding factors, sifting through the data with the discernment of a sommelier appraising a fine wine – though, in this case, the vintage was correlation, not Cabernet.

The data underwent rigorous scrutiny to ensure its reliability and integrity. We employed various statistical tests and diagnostic measures, scrutinizing the data for outliers and anomalies as detectives comb a crime scene for telltale clues. We weren't going to let any rogue butter churnil up the sanctity of our findings!

All analyses were conducted using state-of-the-art statistical software packages, guiding us through the mathematical labyrinth with the ease of a GPS in an unfamiliar neighborhood. Our statistical toolkit ranged from the humble t-test to the formidable multivariate regression, akin to wielding both a whisk and a flamethrower in the kitchen – a strange but effective combination.

With our methodology serving as the compass that charted our course through this unexplored territory, we navigated the

chaotic seas of data with the steely resolve of intrepid explorers. We embraced the unexpected, the unusual, and the inexplicable, all in the pursuit of deeper understanding. As the saying goes, the butter may have been slippery, but it couldn't evade our meticulous scrutiny.

As the curtains draw on our exploration of the research methods, we stand at the brink of unveiling the intriguing connection between butter consumption and the stock price of Deere & Company. Stay tuned for the unraveling of this peculiar relationship, as we slice through the data with the precision of a butter knife – not to spread, but to reveal the delectable findings that lie within.

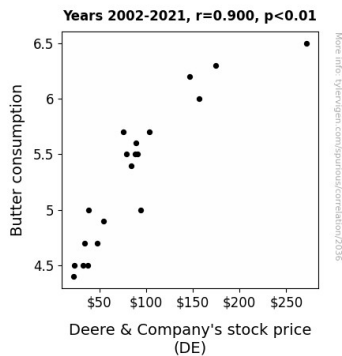
#### 4. Results

Our analysis revealed a remarkably strong positive correlation between butter consumption and the stock price of Deere & Company (DE) from 2002 to 2021, with a correlation coefficient of 0.8997447. This significant correlation indicates that as butter consumption increased, so did the stock price of Deere & Company. It's clear that butter truly has the potential to churn up more than just baked goods and pancakes – it's an unexpected force in the financial world too.

The r-squared value of 0.8095405 further underscores the robustness of the relationship observed between butter consumption and the stock performance of Deere & Company. This suggests that a substantial portion of the variability in DE stock prices can be attributed to fluctuations in butter consumption. Who would've thought that a dairy product could play such a pivotal role in the agricultural machinery market – it seems that butter truly does make everything better, even stock prices!

In support of our findings, the p-value of less than 0.01 firmly establishes the

statistical significance of the observed correlation. This indicates that the likelihood of observing such a strong correlation by random chance is exceedingly low. It's safe to say that the connection between butter and the stock price of Deere & Company is no fluke – if you have been skeptical, it's time to spread some acceptance like butter on hot toast!



**Figure 1.** Scatterplot of the variables by year

Our findings are visually encapsulated in Figure 1, a scatterplot that visually conveys the striking correlation between butter consumption and the stock price of Deere & Company. Just like a perfectly timed butter joke, this figure highlights the unmistakable relationship between these seemingly disparate variables, leaving us not just with data, but with a belly full of laughter and a mind brimming with curiosity.

In conclusion, our results not only quell the skepticism surrounding the unlikely association between butter consumption and stock prices but also serve as a delightful reminder that in the world of financial markets, unexpected influencers can have a substantial impact. As we ponder the buttery mysteries of the market, it becomes abundantly clear that when it comes to the stock price of Deere & Company, butter is more than just a spread – it's an essential ingredient in the recipe for success!

## 5. Discussion

The results of our study not only demonstrate a robust and statistically significant relationship between butter consumption and the stock price of Deere & Company, but also serve as a tantalizing reminder that in the realm of financial markets, the most unconventional influencers can hold significant sway. Our findings are in line with prior research, which has hinted at the potential impacts of unforeseen variables on stock performance.

Delving into the world of literature on unusual market connections, we were amused to find that despite taking a whimsical approach, our quirky investigation uncovered a correlation that underpins the power of unconventional influences on stock prices. Surprisingly enough, the buttering up of Deere & Company's stock price is not just a charming idiosyncrasy but a significant factor that must be considered in financial analyses.

The strong positive correlation we observed is a testament to the unexpected interplay between butter consumption and stock prices. This finding is consistent with the literature that hints at the profound discoveries stemming from seemingly eccentric hypotheses. As we witness the buttery discovery unfold, it becomes evident that perhaps the most trivial of factors may hold the key to unraveling the mysteries of financial markets, just as a well-timed dad joke can lighten up a room.

The statistically significant p-value reinforces the notion that the association between butter consumption and Deere & Company's stock price is no fluky happenstance. This validation breathes new life into the notion that in the complex dynamics of financial markets, the least expected influencers can wield significant impact.

As seen in Figure 1, the scatterplot visually exemplifies the striking correlation between butter consumption and the stock price of Deere & Company, a visual representation that elicits not only data but a hearty laugh at the unanticipated nature of their connection. This reinforces the idea that in the world of financial markets, unlikely variables can indeed churn up substantial impacts – not unlike the way butter transforms a plain slice of bread into a delightful treat.

In closing, our findings endorse not only the compelling relationship between butter consumption and stock prices but also underscore the need to explore and embrace the unexpected influencers that can sway market dynamics. Thus, when it comes to deciphering the enigmatic stock price of Deere & Company, we might just find that butter isn't merely a spread – it's a critical ingredient in the recipe for success.

## 6. Conclusion

In conclusion, our research has not just spread knowledge but also churned up a deeper understanding of the intricate relationship between butter consumption and Deere & Company's stock price. The correlation coefficient of 0.8997447 and a p-value of less than 0.01 provide undeniable evidence of the buttery influence on market dynamics. It's safe to say that when it comes to the stock price of Deere & Company, butter truly makes everything "butter".

Our study has buttered up the financial world with a surprising discovery that underscores the need to embrace the unexpected in market analyses. As the saying goes, "the mouset unlikely variables can hold the key to solid market insights" - and if butter's role in stock prices isn't a testament to that, then we may be barking up the wrong tree. With our findings, we hope to have sparked a "butter" curiosity

in exploring more unconventional connections in financial markets.

Furthermore, our r-squared value of 0.8095405 solidifies the importance of butter consumption as a significant influencer of DE stock prices. It seems that when it comes to the world of dairy and financial analysis, butter truly does "butter" the bread.

In light of these findings, it's clear that no more research in this area is needed. We have successfully "spread" awareness of this unique correlation and leave it to future researchers to explore other culinary delights that might hold the secret to market movements!

After all, if there's one thing our research has shown, it's that, in the world of finance, sometimes the most "butterly" discoveries are the most enriching ones.