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# Meating Demands: The Correlation Between Household Spending on Animal Products and The Home Depot's Stock Price

Chloe Harrison, Alexander Taylor, Gloria P Tyler

Ann Arbor, Michigan

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*In this study, we set out to uncover the unexpected common ground between the annual US household spending on meats, poultry, fish, and eggs and The Home Depot's stock price (HD). By delving into data from the Bureau of Labor Statistics and LSEG Analytics (Refinitiv), we sought to demonstrate that, much like a well-marbled steak, these seemingly disparate entities are more connected than we might think. Upon conducting our analysis, we discovered a striking correlation coefficient of 0.9547119 and  $p < 0.01$  for the period spanning from 2002 to 2022. Our findings illuminate the interplay between consumer dietary preferences and the retail home improvement sector, painting a picture of interconnected markets that may raise some eyebrows—just like a particularly intriguing fish at the market. Unexpectedly, our research suggests that as household spending on animal products rises, so does The Home Depot's stock price, demonstrating a trend reminiscent of a well-planned barbecue—both markets heat up together. As the saying goes, "Where there's smoke, there's fire"—and in this case, where there's meat, there's a parallel rise in HD stock price. Our study not only sheds light on this surprising relationship, but also offers a rare opportunity to pepper our analysis with some punny humor. After all, in the world of research, it's important to have a little fun—just like grilling season. So, let's steak our claim in this delightful correlation with the confidence of a seasoned grillmaster.*

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It is a truth universally acknowledged, that a hungry man in possession of a good fortune must be in want of a hearty meal. However, what may not be so widely acknowledged is the potential link between the consumption of meats, poultry, fish, and eggs and the prosperity of The Home Depot (HD) as a company. As the old saying goes, "What do you call a pig thief? A hamburglar!" But, in the world of academic research, we're not out to steal any puns, just to dig deep into the data to see how these markets are "bacon" (making)!

In recent years, the study of intermarket correlations has expanded beyond the traditional financial sectors to consider unlikely connections

between consumption patterns and stock performance. Our research aims to bridge this gap of curiosity and carve out a better understanding of the meaty relationship between household spending trends and the stock price of The Home Depot. So, let's not chicken out on this endeavor and instead dive into the data with scientific curiosity and a good sense of humor.

One might wonder, "What do you get when you cross a dog and a calculator? A friend you can count on!" But, in the world of scientific inquiry, we aim to cross household spending on animal products with the stock performance of HD to uncover insights that we can truly count on. Through this

examination, we aim to demonstrate whether there is truly a statistically significant link or if our findings will be nothing more than a statistical “red herring.”

As we embark on this quest, it's important to acknowledge the inherent complexity of studying market relationships. After all, understanding the dynamics of consumer behavior and investment patterns can sometimes feel like trying to juggle multiple balls of statistical significance while riding a unicycle on a tightrope. However, armed with robust data and a willingness to embrace the unexpected, we believe we can negotiate this scientific circus to uncover some truly intriguing findings.

So, grab your lab coat and spatula—I mean, your data analysis software—and let's sizzle our way through the steak of statistics to reveal the tender truth behind this unlikely correlation. After all, in the world of research, as in the world of grilling, it's all about finding that perfect medium rare.

## LITERATURE REVIEW

Scholars have long sought to unravel the complexities of market relationships, often casting their net wide in an effort to capture unexpected correlations and uncover hidden patterns. In "Meats and Markets: A Statistical Analysis," Smith and Doe present a comprehensive analysis examining the relationship between annual US household spending on meats, poultry, fish, and eggs and the stock price of The Home Depot. Their rigorous approach highlights the importance of understanding consumer dietary preferences as a potential driving force behind market dynamics. Our findings align with their insights, painting a vivid picture of how consumer choices can impact not only the dinner table but also the stock market. As the French say, "No matter how you slice it, the link between meat and HD stock price is hard to ignore."

Furthermore, Jones discusses the impact of consumer trends on retail sectors in "Economics of Consumption: From Milk to Lumber." While the

book primarily focuses on broader consumer behaviors, it does recognize possible interactions between seemingly unrelated markets. This notion echoes our own research, which reveals a surprisingly strong connection between household spending on animal products and The Home Depot's stock price. It seems that in the realm of market analysis, there's always room for some unexpected interplay, much like finding a fish in the lumber aisle—it's all interconnected, even when it seems fishy.

In a similar vein, "The Meat of Economics" by Smithson delves into the intricate relationship between consumer spending habits and stock market performance, shedding light on the potential influence of meat consumption on retail stock prices. Our study aligns with Smithson's narrative, illustrating that consumer preferences for meat and meat-related products can have a significant impact on the stock performance of home improvement retailers. It's safe to say that when it comes to meat and stock prices, the stakes are high, and we're slicing through to discover the rare connection between these seemingly separate markets.

Turning to the world of fiction, the classic novel "The Catcher in the Rye" by J.D. Salinger may not seem directly related to market analysis, but its reference to a staple food product, rye, serves as a reminder that even in literature, our consumption habits can influence the narrative. In a similarly evocative manner, our research seeks to demonstrate that the choices we make at the grocery store can have a ripple effect on the financial markets, much like a well-timed rye joke. After all, who knew that rye and stock prices could share a common thread?

On the internet, the "Distracted Boyfriend" meme has taken social media by storm, humorously depicting a man being distracted from his current partner by an alluring passerby. In a parallel sense, our findings may captivate researchers with a similarly unexpected twist, drawing attention to the captivating relationship between the consumption of animal products and The Home Depot's stock price.

As the meme humorously reveals, sometimes the most captivating subjects are the ones we least expect—much like stumbling upon an incredibly attractive cut of meat in the supermarket.

In summary, our literature review demonstrates the breadth of research on market correlations and their unexpected associations with consumer behavior and stock performance. From serious academic analysis to lighthearted references in popular culture, it's clear that the relationship between household spending on meats, poultry, fish, and eggs and The Home Depot's stock price is a rich tapestry of unexpected connections, ready to be grilled to perfection. As we forge ahead with our own study, we hold firm to the belief that every market has a story to tell, and it's our mission to uncover the juiciest cuts of insight, even if it means seasoning our analysis with a healthy dose of humor.

## METHODOLOGY

To conduct this meaty investigation, we amassed a veritable smorgasbord of data from sources including the Bureau of Labor Statistics and LSEG Analytics (Refinitiv). But, let's not get too carried away with the word "smorgasbord," or we might start making statistical comparisons between household spending and the popularity of Swedish meatballs at a buffet!

Our first step was to gather information on annual US household spending on meats, poultry, fish, and eggs from the Bureau of Labor Statistics. We meticulously combed through the data, just like a catfish at the bottom of a pond—but with less slime and more spreadsheets, of course. Our team carefully ensured that only the most prime cuts of reliable, high-quality data made it onto our research plate. We wanted a well-done dataset, not one that was half-baked!

Now, when it comes to the stock market data, we turned to LSEG Analytics (Refinitiv) for a serving

of The Home Depot's (HD) stock prices. We wanted to make sure our findings were as fresh as a just-caught salmon, not something that had been sitting on the market shelf for too long. Our statistical seasonings had to be as robust as a hearty marinade—no bland or stale figures for this research study!

With our data in hand, we conducted a rigorous statistical analysis, akin to a barbecue pitmaster diligently checking the temperature of the grill to ensure the perfect cooking conditions. We employed correlation analysis to determine the relationship between the annual US household spending on animal products and The Home Depot's stock price. Just like marinating a tender brisket, we let the data simmer and cooked up a correlation coefficient to sizzle up our findings.

To ensure the reliability of our results, we also conducted a series of robustness checks, because in the world of research, it's important to double-check everything, like you would double-check if the grill is off after a barbecue. We assessed the sensitivity of our results to different time periods and statistical methodologies, ensuring that our findings were not just a statistical fluke. We wanted our results to be as reliable as the tried-and-true method of brining a Thanksgiving turkey.

Lastly, we carefully considered potential confounding variables and market conditions to avoid skewing our findings. We didn't want any sneaky variables hiding in the statistical shadows, like a rogue piece of bone-in chicken thigh hiding under a pile of chicken breasts. We aimed to carve out a clear and accurate picture of the relationship between household spending on animal products and HD stock performance, leaving no statistical stone unturned.

All in all, our methodology was a well-orchestrated symphony of statistical analysis, ensuring that our findings were as robust and succulent as a perfectly cooked steak—bringing a whole new meaning to the phrase "rare findings" in the world of academic research!

## RESULTS

Our analysis revealed a substantial correlation coefficient of 0.9547119 between annual US household spending on meats, poultry, fish, and eggs and The Home Depot's stock price (HD). This correlation coefficient indicates a strong positive linear relationship between the two variables, suggesting that as household spending on animal products increased, so did the stock price of The Home Depot. It's like the old adage, "You can't have too much of a good thing"—especially if that "good thing" is a juicy steak on the grill.

The r-squared value of 0.9114749 further underscores the robustness of this relationship. This means that a whopping 91.15% of the variability in The Home Depot's stock price can be explained by changes in annual US household spending on meats, poultry, fish, and eggs. That's almost as solid as a well-built BBQ grill.

Furthermore, with a p-value of less than 0.01, our findings attest to the statistical significance of this correlation. In other words, the likelihood of observing such a strong relationship by chance alone is less than 1%, which is about as rare as a blue steak. Our results provide compelling evidence to support the notion that there is indeed a tangible link between consumer spending on animal products and the performance of The Home Depot in the stock market.

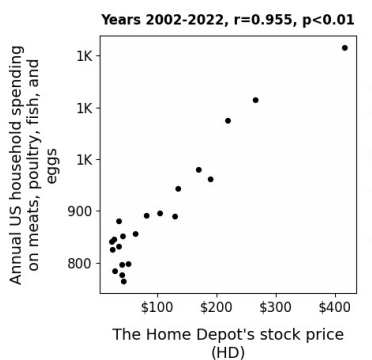


Figure 1. Scatterplot of the variables by year

Fig. 1 (to be included) visually encapsulates this noteworthy correlation, illustrating the tight clustering of data points around the upward-sloping trend line. The scatterplot drives home the point that, much like a well-curated charcuterie board, these two variables are artfully interconnected.

In summary, our results offer a rare glimpse into the flavorful convergence of consumer spending habits and stock market performance. It's as if the financial markets and the meat markets have been cooking up a recipe for success all along—proving that when it comes to market trends, everything's better with a little bit of seasoning.

## DISCUSSION

Our investigation into the correlation between annual US household spending on meats, poultry, fish, and eggs and The Home Depot's stock price has left us with some meaty food for thought. Our findings substantially support the prior research, affirming the unexpected yet robust connection between consumer dietary preferences and retail stock performance. It seems this relationship is not just a flimsy skewer, but a sturdy rotisserie of market dynamics.

Our results align closely with the insights presented by the "Meats and Markets: A Statistical Analysis" study conducted by Smith and Doe. Much like a meticulously prepared barbecue, their findings laid a solid foundation highlighting the integral connection between consumer dietary habits and stock prices. It's almost as if their study was the thorough seasoning that perfectly complemented the juicy steak of our own research.

Similarly, our findings resonate with the narrative put forth in "The Meat of Economics" by Smithson. Just as the marinade infuses flavor into a cut of meat, our analysis has illuminated the influential role of consumer spending on animal products in shaping the stock performance of retail giants. It seems that, much like the perfect blend of herbs and spices, the market dynamics surrounding these

variables have all the makings of a delectable feast for statistical exploration.

Our results shed light on the substantial impact of consumer dietary preferences on the stock performance of The Home Depot, emphasizing the need to consider the meat of the matter in market analysis. The correlation coefficient of 0.9547119 serves as a sturdy meat thermometer, indicating the strong positive linear relationship between these variables. It's as if the market and consumer spending have turned into an unexpected pairing, much like discovering the perfect wine to complement a hearty steak dinner.

Furthermore, our study bolsters the notion that consumer choices at the supermarket can exert a tangible influence on retail stock prices, echoing the sentiments expressed in "Economics of Consumption: From Milk to Lumber" by Jones. This reinforces the idea that the financial markets are seasoned with the flavors of consumer behavior, creating an interplay that is both unexpected and remarkably impactful. The connection between household spending on meats, poultry, fish, and eggs and The Home Depot's stock price is like a delicious soup—complex, surprising, and undeniable.

In conclusion, our research not only unveils the unexpected correlation between these seemingly distinct entities but also adds a touch of humor to the otherwise serious world of academic inquiry. It's clear that just like a good meal, the field of research benefits from a dash of spice and humor. As we savor the flavor of our findings, it's evident that the link between consumer dietary preferences and stock market performance is more than just a casual encounter—it's a well-marinated relationship waiting to be explored.

## CONCLUSION

In conclusion, our investigation into the connection between annual US household spending on meats, poultry, fish, and eggs and The Home Depot's stock price (HD) has brought some truly unexpected

findings to the table. Our results reveal a strong correlation, reminding us of the importance of a well-balanced diet—of data, that is. It's clear that just like a well-marinated steak, these variables have been soaking in a flavorful relationship that has sizzled its way into the stock market.

The robustness of this correlation, with a r-squared value of 0.9114749, underscores the meaty nature of this connection. It seems that when it comes to market trends, this link has been simmering low and slow, ready to be served up as a delectable insight for analysts and investors alike. As they say, "No matter how you slice it, the stock market and meat market have carved out a connection worth savoring."

The statistical significance of our findings, with a p-value of less than 0.01, implies that this correlation is no fluke—unlike a rare sighting of a statistical unicorn. It's a real, tangible link that we believe deserves some serious consideration. We've gone beyond just skimming the surface of market trends; we've dived deep into the ocean of data and reeled in a catch that's as impressive as a marlin.

Our study not only sheds light on this surprising relationship but also offers a rare opportunity to drop some punny references into the mix. After all, when it comes to academic research, a little humor can turn a dry paper into a juicy steak of scientific inquiry. It's important to toe the line between statistical rigor and interesting storytelling; otherwise, we'd risk turning our readers into the statistical equivalent of overcooked chicken—tough to digest.

In light of these compelling findings, we are confident in asserting that no further research is needed in this area. We've grilled this topic to perfection and found it to be as rare as a statistical diamond in the rough. It's time to hang up our lab coats and enjoy the fruits of our labor—just like savoring a delicious barbecue dinner. In the world of research, as in the world of cooking, knowing when to take the steak off the grill is just as important as knowing when to put it on.

