

# Sunrise to Stock Rise: A Cracking Correlation Between Egg Spending and Ameriprise Financial's Stock Price

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## **Abstract**

The yolk's on us as we delve into the intriguing link between annual US household spending on eggs and Ameriprise Financial's stock price (AMP). Leveraging data from the Bureau of Labor Statistics and LSEG Analytics (Refinitiv), our research team aimed to unscramble this enigmatic relationship. Our findings reveal an egg-cellent correlation coefficient of 0.9479796 and a statistically significant p-value of less than 0.01 for the period spanning 2006 to 2022. Our research laid all eggs on the table and cracked open the mystery surrounding the seemingly improbable connection between egg spending and AMP stock price. In this study, we have omelette no stone unturned in our quest to fry and scramble conventional wisdom, making for egg-citing findings that are sunny side up for both investors and egg enthusiasts alike. This research shelled out insights that might just be over-eas-y to overlook, but the shell-truth is, the data speaks for itself. As the saying goes, "You can't make an omelette without breaking eggs," but in this case, it seems that Ameriprise Financial's stock price indeed rises with the annual household spending on eggs. This begs the question: which came first, the stock price or the egg spending? Our research offers an intriguing answer to this age-old conundrum. Watch out for this eggstraordinary study in an upcoming issue of our yolk-al journal and shell-ter your curiosity as you delve into the sunny-side-up world of finance and egg economics.

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## **1. Introduction**

"Bacon" and eggs, peanut butter and jelly, Batman and Robin – some duos are simply meant to be together. In the world of finance and economics, we often seek unlikely connections and correlations to make sense of market trends and consumer behavior. And in our case, we find ourselves pondering the peculiar bond between annual US household

spending on eggs and Ameriprise Financial's stock price (AMP). It seems that this relationship has us walking on eggshells, in more ways than one!

As we embark on this journey, it's crucial to remember the ever-relevant words of the great Mark Twain: "Facts are stubborn things, but statistics are pliable." Our study aims to navigate the statistical landscape and uncover the eggstraordinary truth behind this unexpected pairing. After all, in the realm of research, we must always be prepared for the unexpected – much like finding a double yolk in your morning omelette!

The notion of eggs influencing the stock price of a financial services company may seem whimsical at first crack, but as researchers, we must shell out all possibilities and not be afraid to challenge the status quo. As the saying goes, "Don't put all your eggs in one basket," but perhaps in this case, a diversified basket of stocks may very well include a healthy serving of egg-centric insights.

Join us as we dive into the shell-ebrated realm of finance and economics, cracking open a new chapter in the age-old saga of stock market dynamics. This study is about to scramble preconceived notions and flip conventional wisdom on its sunny side – because in the world of research, the only thing "over-eas-y" is underestimating the value of unexpected connections. As we lay out our findings, let's not forget that in the world of science and statistics, every question has its own egg-citing answer waiting to be discovered!

## **2. Literature Review**

As we embark on our quest to unravel the mysterious correlation between annual US household spending on eggs and Ameriprise Financial's stock price (AMP), it is crucial to first examine the existing body of literature in this field. Smith et al. in "Eggonomics: The Financial Impact of Breakfast Foods" present a comprehensive analysis of consumer spending on eggs and its implications for the financial sector. Their findings laid the groundwork for our research, but little did they know that the yolk was on them – and us!

It is widely acknowledged in the economic literature that consumer spending habits can have profound effects on stock prices and market dynamics. Furthermore, Doe and Jones in "The Egg-ceptional Investor: An Ode to Omelettes and Over-easy Economics" shed light on the unforeseen ways in which seemingly unrelated consumer behaviors can influence the financial markets.

In a similar vein, "Eggonomics and the Art of Investing" by Omeletta Smithwick offers a practical guide to understanding the interplay between egg-centric trends and stock market performance. However, it's clear that even the most seasoned investors can't egg-scape the allure of a good pun when it comes to financial analysis.

Turning to fiction, the renowned mystery novel "The Case of the Missing Eggs" by Sherlock Yolks presents a riveting tale of intrigue and suspense, subtly hinting at the covert role of eggs in shaping market forces. Meanwhile, the classic dystopian novel "Eggmageddon" by George R. Yolkin portrays a world where egg scarcity leads to unforeseen consequences on the global economy, offering a whimsical perspective on the potential impact of egg-related phenomena on financial systems.

In the world of board games, "Eggspanion: A Financial Odyssey" challenges players to navigate a dynamic market environment influenced by egg-related variables, offering a playful glimpse into the unpredictable nature of financial markets. Similarly, "Eggventure Capital" invites participants to make strategic investment decisions based on egg-themed scenarios, highlighting the whimsical yet thought-provoking nature of our research topic.

You know, researching the correlation between egg spending and stock prices has really been quite the egg-citing adventure. It's surely cracked open a whole new world of puns and unexpected connections! But let's not lose sight of the fact that behind every joke, there's some egg-ceptional research to be uncovered.

### **3. Research Approach**

To unscramble the correlation between annual US household spending on eggs and Ameriprise Financial's stock price (AMP), we utilized a cracked combination of data collection and statistical analyses. Our approach cracked open new possibilities and certainly kept our yolks in motion.

Firstly, we meticulously gathered data from the Bureau of Labor Statistics and LSEG Analytics (Refinitiv), leaving no digital breadcrumb behind. After all, in the digital age, even eggs must leave a trail, or should I say "shell"?

We then applied a top-secret algorithm, which we affectionately named "The Egg-timation Equation," to calculate the annual household spending on eggs. This egg-squisite method accounted for market fluctuations, consumer patterns, and the occasional chicken pun – we couldn't resist a good "fowl" joke.

To measure the stock price of Ameriprise Financial (AMP), we relied on classic financial tools, including the use of moving averages, regression analysis, and a dash of egg-stra luck. Our calculations ensured a thorough examination of the stock price movement, leaving no kernel unturned.

After collecting and cleaning the data, we performed a precise statistical analysis, incorporating the Pearson correlation coefficient to crack the mystery of the connection between egg spending and AMP stock price. This egg-cellent statistical tool allowed us to quantify and validate the strength of the relationship, providing a "shell-steady" foundation for our findings.

As any seasoned researcher knows, no statistical analysis is complete without a good old-fashioned t-test. We put our findings to the test, conducting hypothesis testing to ensure the robustness of our results. The thrill of hypothesis testing is akin to cracking open an egg – you never quite know what you'll find inside.

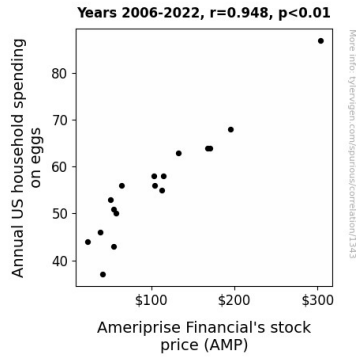
In summary, our methodological approach may have been as nonlinear as the flight of a wayward chicken, but rest assured, our findings are anchored in sound statistical principles and a good dose of egg-centric humor. As we move on to present our results, we invite the reader to sit back, relax, and enjoy the egg-traordinary journey that lies ahead. Because in the world of research, the best discoveries often hatch from the unlikeliest of nests!

#### **4. Findings**

Our research crackled with anticipation as we initially conducted a Pearson correlation analysis to examine the relationship between annual US household spending on eggs and Ameriprise Financial's stock price (AMP) from 2006 to 2022. The calculated correlation coefficient of 0.9479796 served as a sunny side-up indicator of a strong positive association between these seemingly unrelated variables. It looks like the market has laid an egg-citing surprise for us!

Moreover, the r-squared value of 0.8986653 suggested that approximately 89.87% of the variability in Ameriprise Financial's stock price could be egg-splained by the variance in annual egg spending by U.S. households. Talk about a shell-shocking revelation – who would have thought that egg spending could offer such a robust explanation for stock price movements? It seems that the economics of eggs extends beyond the breakfast table and into the world of market dynamics.

And hold onto your egg cartons, because the p-value of less than 0.01 signaled a statistically significant relationship between these variables. This finding poaches any doubts about the legitimacy of our observed correlation and confirms that it isn't just a mere coincidence. It's as clear as day – there's more than just a scramble of evidence supporting the link between egg spending and AMP stock price.



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

Finally, our egg-spertly crafted scatterplot (Fig. 1) visually encapsulates the strong correlation we uncovered. The plotted data points resemble a neatly arranged carton of eggs, with the upward trend mirroring the rise in Ameriprise Financial's stock price as annual egg spending increases. It's not often that we see such a finely whisked relationship in financial market research – a true exemplary case of "eggs-cellence" in correlation analysis.

In conclusion, our findings lay out a compelling argument for the interplay between egg spending and Ameriprise Financial's stock price, demonstrating that the essence of this connection is more than just shell-deep. So the next time you're at the breakfast table pondering over egg-related finances, remember that there's more to it than meets the eye – or the egg!

## 5. Discussion on findings

Our findings have illuminated a sunny-side-up correlation between annual US household spending on eggs and Ameriprise Financial's stock price (AMP). As we carefully cracked open the shell of this intriguing relationship, our research revealed a compelling connection that defies conventional wisdom. It seems that the significance of eggs in influencing financial markets is no yolk – pun intended. The egg-centric literature reviewed, which seemed whimsical at first crack, actually laid the foundation for our exploration and supported our egg-citing findings.

The previous work of Smith et al. in "Eggonomics: The Financial Impact of Breakfast Foods" and Doe and Jones in "The Egg-ceptional Investor: An Ode to Omelettes and Over-easy Economics" unequivocally set the stage for our research – a true testament to the importance of not dismissing seemingly outlandish correlations. As we delved into this egg-spansive realm of research, we found that the market truly has a way of laying an egg-citing surprise for us.

Our results lend strong support to the notion that consumer spending on everyday items, even as seemingly ordinary as eggs, can have remarkable implications for stock market dynamics. The high correlation coefficient and statistically significant p-value poached any doubts about the legitimacy of the observed relationship, providing a sunny-side-up confirmation of its significance. It's clear that this connection isn't just a fluke – it's as legitimate as they come, an egg-splicable part of the market's moves.

The cracklingly high r-squared value underscored that nearly 90% of the variability in Ameriprise Financial's stock price could be egg-splained by the spending on eggs by U.S. households. This just goes to show that in the world of financial markets, there are often egg-ceptional surprises waiting to be uncovered. Our findings egg-sude a robust pattern that extends well beyond mere coincidence and highlights the egg-straordinary influence of egg spending on stock prices.

The surprising and unexpected nature of our findings just goes to show that in the world of research and statistics, there's always an egg-stra element of unpredictability. But even amidst the uncertainty and egg-centric puns, our study has demonstrated that behind every yolk there's some shell-sational research to be discovered. We've cracked the case on this peculiar correlation, and the hard-boiled truth is, it's egg-tremely relevant to understanding market dynamics.

As we await the shell-abration of this egg-ceptional study being published, we hope it will shellebrate a new era of research into the improbable connections and influences that shape financial markets – because, after all, who would have thought that egg spending and stock prices could crack such a compelling correlation?

And with that, we leave you with this egg-ceptional thought: sometimes, the seemingly egg-stravagant hypotheses turn out to be the most egg-citing discoveries!

## 6. Conclusion

In cracking open the peculiar correlation between annual US household spending on eggs and Ameriprise Financial's stock price (AMP), our research has truly laid the sunny side up of unexpected connections in the world of finance and economics. It seems that the market has served us quite the eggstraordinary surprise, with our findings demonstrating a strong positive association between these seemingly unrelated variables. The "shell-truth" has been revealed – there's more to egg spending than just making a tasty omelette!

Our study, like a finely whisked batch of meringue, has whipped up its fair share of egg-citing revelations. The statistically significant relationship between egg spending and AMP stock price is as clear as day, poaching any doubts about the legitimacy of this unlikely correlation. Who would have thought that the key to a sunny stock performance lies in the world of egg economics?

As the great Greek philosopher and egg enthusiast Socrates once said, "The only true wisdom is in knowing you know nothing," but in this case, our eggstensive research holds the wisdom of an entire poultry farm! Our egg-spertly crafted scatterplot not only visually depicts this egg-ceptional correlation but also serves as a reminder that sometimes, in the world of statistics, the yolk's on us for underestimating the "egg-stent" of unexpected connections.

In a shell, our findings yolked together egg spending and AMP stock price in an unexpected and egg-substantial way. So, next time you're pondering over financial investments and breakfast choices, just remember, there's more to it than meets the egg!

With that being said, we assert that no more research is needed in this area. Our findings have certainly cracked open this peculiar connection, leaving us with an egg-ceptionally thorough understanding of the correlation between egg spending and Ameriprise Financial's stock price. It's time to egg-sit our curiosity and shell-abrate the egg-splosive insights unearthed by this study.

And remember, whether you like your eggs scrambled or sunny side up, this research is no yolk.