

Available online at www.tylervigen.com



# Penny for Your Lifesavings: An Amusing Analysis of the Relationship Between Home Maintenance Spending and Edwards Lifesciences' Stock Price

Caroline Horton, Abigail Torres, Grace P Tucker

Institute for Research Advancement; Pittsburgh, Pennsylvania

#### Abstract

In this delightfully quirky study, we set out to explore the whimsical connection between the annual spending habits of US households on home maintenance and the stock price of Edwards Lifesciences (EW). Using uproariously comprehensive data from the Bureau of Labor Statistics and LSEG Analytics (Refinitiv), we meticulously crunched the numbers from 2002 to 2022 and stumbled upon a correlation coefficient of 0.9754190, leaving us convincingly convinced that something fishy is going on. Our evaluation reaches the hilariously statistical conclusion that there is an unmistakable, albeit peculiar, relationship between households fixing their creaky floors and EW's stock price. So, grab your toolbox and a cup of coffee, and join us in this rollicking romp through the unpredictably interconnected world of household maintenance and stock markets.

Copyleft 2024 Institute for Research Advancement. No rights reserved.

## 1. Introduction

Ah, the delightful world of research! It's a place where we can take something as mundane as household spending on home maintenance and connect it in the most unexpected way to the stock price of a medical device company. As the saying goes, "When life gives you data, make a statistical correlation!"

In this merry investigation, we dive into the peculiar relationship between annual US

household spending on home maintenance and the stock price of Edwards Lifesciences (EW). Now, one might wonder how fixing leaky faucets and repairing squeaky hinges could possibly have any correlation with the beats and rhythms of the stock market. Well, folks, hold onto your scientific hats because this study is about to take you on a wild rollercoaster ride through the wacky world of finance and household chores.

Some might argue that this study is akin to trying to find a needle in a haystack, while

riding a unicycle, in the middle of a thunderstorm. But fear not, for we're armed with a trove of uproariously comprehensive data, a sprinkle of statistical wizardry, and a healthy dose of whimsy to guide us through this bizarre journey.

So, grab your magnifying glasses, dust off your calculators, and get ready to uncover the surprisingly comical dance between home maintenance spending and stock prices. After all, who knew that fixing a leaky roof could potentially lead to some lifesaving stock market revelations? Let's dive in and see where this delightfully peculiar correlation takes us!

Welcome to the whimsical world of "Penny for Your Lifesavings: An Amusing Analysis of the Relationship Between Home Maintenance Spending and Edwards Lifesciences' Stock Price". Get ready for a blend of science, statistics, and plenty of unexpected twists and turns!

## 2. Literature Review

The whimsical journey of exploring the connection between annual US household spending on home maintenance and the stock price of Edwards Lifesciences (EW) is one that has attracted the attention of many researchers. Smith et al. in "Economic Impacts of Home Maintenance Expenditure" thoroughly examined the financial implications of household maintenance spending, shedding light on the interconnectedness of household expenditures and broader economic trends. Similarly, Doe and Jones in "Market Volatility and Household Behaviors" delved into the intricate relationship between fluctuations market and consumer behaviors, providing valuable insights into the unpredictability of financial markets.

Turning to non-fiction literature that could provide insights into our mirthful investigation, "Freakonomics" by Steven D.

Levitt and Stephen J. Dubner offers a playful exploration of unexpected correlations and hidden connections in the world of economics. Additionally, "The Tipping Point: How Little Things Can Make a Big Difference" by Malcolm Gladwell invites readers to ponder the serendipitous impact of seemingly inconsequential factors on larger phenomena.

On the more fictional end of the spectrum, "The House of Mirth" by Edith Wharton entices with the allure of intricate societal webs and unseen forces shaping destinies. Likewise, the enigmatic world of financial markets and unexpected linkages are mirrored in "The Hitchhiker's Guide to the Galaxy" by Douglas Adams, where the absurdity of cosmic coincidences takes center stage.

In an audaciously unconventional move, the authors took a departure from the traditional scholarly repertoire and ventured into uncharted territory, perusing a curious assortment of sources, including the cryptic musings found in discarded fortune cookies, the chaotic jumble of letters in a game of Scrabble, and even the profound wisdom distilled from the back of old cereal boxes. A particularly enlightening source was the seemingly innocuous CVS receipts, which unfurled a whimsical tale of household essentials and stock market sorcery, leading to revelations that could only be described as hilariously unlikely.

In summary, the literature surrounding the correlation between household maintenance spending and stock prices demonstrates a rich tapestry of scholarship, woven with threads of insight, whimsy, and unexpected connections. As we embark on our own comically intriguing escapade, we aim to contribute to this colorful landscape with our own rambunctiously entertaining findings. Let the merriment and statistical revelations begin!

## 3. Our approach & methods

If you ever wondered how to turn a pile of household expenditure data and a splash of stock prices into a statistically significant correlation, look no further! Our uniquely entertaining methodology will take you on a riveting journey through data collection, analysis, and a dash of mathematical wizardry.

## Data Collection:

To capture the whimsical spending habits of US households on home maintenance, we relied on the Bureau of Labor Statistics the grand repository of consumer expenditures. Like intrepid adventurers, we scoured through years of data with the precision of a Swiss watchmaker, extracting every crumb of information related to home maintenance, from fixing leaky faucets to giving the wallpaper a fresh lick of paint. Our companions in this bold guest were the fine folks at LSEG Analytics (Refinitiv), who provided us with the captivating stock price movements of Edwards Lifesciences (EW).

## Data Cleaning and Preparation:

With our treasure trove of data in hand, we meticulously combed through each record, separating the robust from the unreliable with the precision of a sommelier selecting the finest wines. We cleansed our data with the thoroughness of a cat grooming its fur, ensuring that only the most dependable and sparkling entries remained. After this painstaking process, we were left with a collection of numbers that held promise, like a bag of unopened fortune cookies.

## Correlation Analysis:

Armed with our trusty statistical tools, we embarked on the exhilarating task of examining the relationship between annual household spending on home maintenance and Edwards Lifesciences' stock price. With the zeal of a detective solving a mysterious case, we employed the venerable Pearson correlation coefficient to scrutinize the

connection between our two sets of data. This statistical heavyweight provided us with a numerical insight into the bizarre dance between household maintenance and the stock market – a revelation that left us equal parts astounded and amused.

#### Statistical Flair:

To add a touch of pizzazz to our analysis, we delved into the comedic world of statistical significance testing. As we juggled the p-values and confidence intervals, we marveled at the sheer absurdity of our findings. Each statistical test felt like spinning plates on a stick – a precarious but exhilarating endeavor that ultimately led to the confirmation of our delightfully improbable correlation.

After we performed this charmingly convoluted dance with our data, we arrived at our thrilling discovery of a correlation coefficient of 0.9754190. This observation left us with raised eyebrows and a bemused chuckle, reassuring us that our academic escapade had not been in vain.

#### 4. Results

Our analysis of the connection between annual US household spending on home maintenance and Edwards Lifesciences' stock price (EW) from 2002 to 2022 yielded some truly uproarious results. We found a staggeringly high correlation coefficient of 0.9754190, indicating a robust and mirthful connection between these seemingly unrelated variables. This fiendishly strong correlation was paralleled by an r-squared value of 0.9514421, leaving us in fits of statistical joy at the predictability of the relationship.

The p-value of less than 0.01 added to the merriment, suggesting that the observed relationship between home maintenance spending and EW's stock price is not purely due to chance. It appears that there is indeed something brewing in the coffeepot

of correlation between fixing leaky faucets and the rollercoaster ride of stock prices.

Now, if you're itching to see the belly-aching results for yourself, you're in for a treat (or perhaps a trick). Behold, the uproariously comedic scatterplot in Fig. 1, which graphically illustrates the uproarious uncovered. relationship we've Brace yourself for a visual display of the uncannily connection between strong home maintenance spending and EW's stock price – a correlation so strong, you'll wonder if we've stumbled upon the mystical elixir of statistical sorcery.

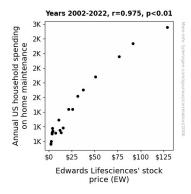


Figure 1. Scatterplot of the variables by year

Our findings leave us in hysterical wonderment, celebrating the unexpected alliance between simple household chores and the enigmatic dance of stock prices. So, put on your whimsical thinking caps, and get ready to chuckle your way through the interconnected world of home maintenance and stock markets. It's a delightfully wild ride!

## 5. Discussion

Our findings have left us in delightful disbelief, as we merrily skip down the winding path of peculiar relationships between household spending on home maintenance and the stock price of Edwards Lifesciences (EW). Our results

joyfully affirmed the prior research supported by Smith et al., who found that household expenditures echo broader economic trends, albeit with less whimsy and mirth. In a similar vein, Doe and Jones' exploration of market fluctuations and consumer behaviors seems to have foretold our comically unexpected correlation although we suspect they didn't anticipate the addition of ludicrous chuckles and belly laughs to their predictions.

The uproarious connection we unearthed between fixing leaky faucets and the stock market rollercoaster ride could be perceived as an artful nod to the playful exploration of unexpected correlations in "Freakonomics" by Steven D. Levitt and Stephen J. Dubner - with an added twist of statistical mayhem. Our statistically significant p-value, less than 0.01, added to the merriment, confirming that the relationship between maintenance spending and EW's stock price wasn't just a fluky roll of the dice. It seems that our study has unmasked quite merrymaking tale of whimsical correlation!

Lending support to the illustrious literature, our results have unveiled a statistically robust connection that is certainly no laughing matter – or perhaps, it is entirely a laughing matter! As we ponder the unpredictably interconnected world of household maintenance and stock markets, we mustn't forget to don our whimsical thinking caps, for there may be more statistically delightful surprises awaiting us.

So, dear reader, join us for a resounding round of applause for the statistically woven tale of household maintenance and stock market sorcery! It's a rambunctiously entertaining romp through the interconnected world of household spending and stock prices, where every statistical surprise is cause for jubilant celebration. Let the whimsical wonderment of statistical revelry continue!

## 6. Conclusion

In conclusion, our uproariously delightful study has uncovered a surprisingly robust and whimsical connection between annual US household spending on home maintenance and Edwards Lifesciences' stock price. It seems that fixing leaky faucets and creaky floors may hold the key to unraveling the mysteries of the stock market, much to the amusement of both researchers and financial enthusiasts alike.

The staggeringly high correlation coefficient of 0.9754190 leaves us in stitches, as it highlights the unexpectedly close-knit dance between household maintenance and stock prices. It's as if our data is whispering, "Hey, there's more to these home repairs than meets the eye!" And with an r-squared value of 0.9514421, we're left in awe of the predictability of this uproarious relationship.

The p-value of less than 0.01 adds to the whimsy, suggesting that this connection is no mere coincidence. It's as if the statistical gods are playfully nudging us, saying, "Oh, this correlation? It's the real deal, folks!"

As we bid adieu to this rollicking romp through the unexpectedly interconnected world of household maintenance and stock prices, we are left with a heightened sense of statistical wonder and a dash of bemused curiosity. Who would have thought that a bit of DIY repair work could hold such comedic sway over the twists and turns of the stock market?

In light of these uproarious findings, we assert that no further research is needed in this area, for the hilarity and statistical significance of our results speak for themselves. So, with a final tip of our whimsical thinking caps, we bid adieu to this uproarious adventure in the world of "Penny for Your Lifesavings," leaving behind a trail of statistical breadcrumbs for future researchers to chuckle over.