



ELSEVIER

Available online at www.tylervigen.com



The Ripple Effect of Bottled Water: A Refreshing Look at the Relationship between US Consumption and Telkom Indonesia (Persero) Tbk PT's Stock Price

Cameron Harris, Anthony Travis, Gavin P Tate

Center for Higher Learning; Austin, Texas

KEYWORDS

bottled water consumption United States, stock price Telkom Indonesia, correlation bottled water consumption stock price, per person bottled water consumption, US bottled water consumption data, Telkom Indonesia stock price analysis, Statista data analysis, LSEG Analytics, Refinitiv, correlation coefficient analysis, 2002-2022 data, interconnectedness of sectors and markets, statistical serendipity, relationship between consumption and stock price

Abstract

This study delves into the surprising correlation between the per person consumption of bottled water in the United States and the stock price of Telkom Indonesia (Persero) Tbk PT. Through data analysis from Statista and LSEG Analytics (Refinitiv), our research team unearthed a correlation coefficient of 0.8969012 and $p < 0.01$, spanning the years 2002 to 2022. We present the bubbling results of this investigation, shedding light on the interconnectedness of seemingly unrelated sectors and markets. Prepare to be hydratingly amused and stock-stifed as we unravel the unexpected twists in this wet and wild odyssey of statistical serendipity.

Copyright 2024 Center for Higher Learning. No rights reserved.

1. Introduction

Ah, the intoxicating allure of bottled water - a seemingly innocent, clear elixir that has captured the quenching desires of the masses. And who would have thought that this humble beverage could have ripple

effects reaching all the way to the stock price of Telkom Indonesia (Persero) Tbk PT, the Indonesia-based telecommunications giant? It's as if Aquafina and Dasani have been secretly whispering stock market tips to investors all along.

Ladies and gentlemen, welcome to a refreshingly unexpected journey through the interconnected depths of bottled water consumption and stock market dynamics. As we dive deep into the choppy waters of statistical analysis and market correlations, prepare to surf the waves of both amusement and bewilderment.

Intriguingly, the objective of this study is to quench the thirst for understanding the intertwined relationship between the seemingly unrelated realms of hydration habits and capital markets. We aim to wet your appetite for knowledge and simultaneously float the idea that there may be more than meets the eye when it comes to the ebb and flow of market intricacies. So, grab a bottle of your favorite H₂O and let's wade through the enlightening waters of statistical serendipity.

As we unveil the findings of our investigation, we invite you to join us in sipping on the surprising and, at times, outright ridiculous connections between the US bottled water consumption per person and the stock price fluctuations of Telkom Indonesia (Persero) Tbk PT. From wild speculation to evidence-based revelations, this extravagant odyssey promises to reveal the thirst-inducing truth behind the mesmerizing confluence of two seemingly distant entities.

So, hold on to your hats and water bottles, as we submerge into the depths of data, correlation coefficients, and stock dips and peaks. Our findings are bound to make you rethink your next sip of refreshing hydration and perhaps even consider diversifying your stock portfolio with a few shares of Telkom Indonesia (Persero) Tbk PT. After all, who knew that staying hydrated and keeping an eye on the stock market could go hand in hand? Get ready to splash into the unpredictable world of statistical exploration!

2. Literature Review

The exploration of the relationship between US bottled water consumption per person and Telkom Indonesia (Persero) Tbk PT's stock price has captivated the attention of researchers and market enthusiasts alike. Smith et al. (2015) delved into the intricacies of consumer beverage preferences and their impact on stock market trends, laying the foundation for further investigations into this thought-provoking nexus. Building on this groundwork, Doe and Jones (2018) expanded the scope to include international market dynamics, uncovering surprising parallels between water consumption habits and stock performance in diverse global economies.

As the current study delves into this captivating correlation, it is essential to acknowledge the wealth of literature that has contributed to our understanding of seemingly unrelated phenomena. While the link between hydration habits and financial markets may appear far-fetched at first glance, the existing body of work hints at a complex interplay that tickles the intellect and quenches the curiosity of inquisitive minds.

Turning to the non-fiction realm, "Bottled Up: How Water Became America's New Addiction" by Lorem Ipsum (2017) provides a comprehensive account of the societal and economic factors driving the surge in bottled water consumption, offering invaluable insights into the behavioral patterns that may influence stock market dynamics. Similarly, "Stocks and Sips: Unraveling the Mysteries of Market Relationships" by Ipsum Lorem (2019) offers a thought-provoking analysis of unexpected correlations between consumer preferences and stock performance, setting the stage for our own investigation into the bottled water-stock price relationship.

Venturing into the realm of fiction, "The Thirsty Investor's Guide to Aquatic Assets" by J.K. Rowling (2020) playfully imagines a

world where investment portfolios are influenced by the ebb and flow of beverage choices, blurring the boundaries between financial acumen and liquid libations. Meanwhile, "The Dasani Conundrum: A Tale of Liquid Luck" by George Rumney (2016) weaves a captivating narrative of chance encounters and market fortunes, drawing parallels between the unpredictability of water sources and stock market fluctuations.

In the age of memes and internet culture, the iconic "This is Fine" dog meme serves as a whimsical yet oddly fitting encapsulation of the unexpected twists and turns in market dynamics, reminding us that navigating the seas of financial data can sometimes feel like sipping from a firehose. Additionally, the "Hide the Pain Harold" meme, with its wry smile concealing a myriad of underlying complexities, serves as a lighthearted reflection of the nuanced relationships awaiting discovery in the world of market analyses.

As the literature surrounding the intertwined realms of bottled water consumption and stock price fluctuations continues to evolve, our own study seeks to add a refreshing splash of insight to this ever-flowing stream of knowledge. Let us embark on this buoyant journey of discovery with open minds and a willingness to dive headfirst into the unexpected currents of statistical serendipity.

3. Our approach & methods

To uncover the watery links between US bottled water consumption per person and the stock price fluctuations of Telkom Indonesia (Persero) Tbk PT, our research team embarked on a buoyant journey through the choppy seas of data collection and statistical analysis.

Firstly, we made a splash by diving into the vast ocean of online resources, utilizing

data from esteemed repositories such as Statista and LSEG Analytics (Refinitiv). With a tide of caution, we navigated from 2002 to 2022, snagging every drop of relevant information to quench our thirst for knowledge.

In our endeavor to fish out the most robust and reliable data, we cast a wide net, encompassing various dimensions such as per capita bottled water consumption in the US and the fluctuating tides of Telkom Indonesia (Persero) Tbk PT's stock price. We sieved through an ocean of statistics and market trends, ensuring that our catch was neither a red herring nor a mere drop in the ocean of information available.

Our research team faced the tempest of data cleaning and processing, separating the glistening pearls of relevant information from the treacherous seaweed of irrelevant distractions. We cleaned, filtered, and distilled the data to ensure that our analysis captured the purest essence of the relationship between bottled water consumption and stock market undulations.

Having apprehended the data, we employed the anchor of statistical methodologies to navigate the swirling currents of correlation analysis. Our fearless crew utilized advanced statistical tools to compute correlation coefficients and statistical significance, drilling down to unearth the hidden connections that lay beneath the surface of seemingly disparate domains.

Furthermore, our research vessel set sail for the uncharted waters of time series analysis, examining how the waves of bottled water consumption in the US ebbed and flowed in tandem with the tides of Telkom Indonesia (Persero) Tbk PT's stock prices. Our endeavor to unravel this enigmatic relationship involved a careful examination of the simultaneous fluctuations in both domains, uncovering the synchronous rhythms that seemed to echo

across the seas of consumption and capital markets.

Finally, to ensure the robustness of our findings, we subjected our data to rigorous sensitivity analysis, scrutinizing the stability of the identified relationships against the headwinds of alternative statistical approaches. This rigorous scrutiny served as the lighthouse guiding our ship through the stormy seas of potential biases and confounding variables, ensuring that our findings remained steadfast against the tumultuous forces that often buffet research endeavors.

In summary, our methodology employed a mix of data aggregation, cleaning, statistical analysis, and a dash of seafaring metaphor to navigate the uncharted waters of understanding the interconnectedness of US bottled water consumption and the stock price fluctuations of Telkom Indonesia (Persero) Tbk PT. With our analytical compass set on true north, we have charted a course to bring these surprising connections to the surface, hoping to quench the thirst for knowledge and stock-savvy insights.

4. Results

The results of our investigation reveal a tantalizingly strong correlation between the per person consumption of bottled water in the United States and the stock price of Telkom Indonesia (Persero) Tbk PT. With a correlation coefficient of 0.8969012 and an r-squared value of 0.8044318, the relationship between these two seemingly disparate entities surpassed our initial expectations. It seems that the waves of market dynamics and the ebb and flow of hydration habits have been engaged in an unforeseen dance of statistical significance.

Furthermore, the p-value of less than 0.01 provides compelling evidence to reject the null hypothesis and accept the alternative

hypothesis of a significant relationship between US bottled water consumption and Telkom Indonesia (Persero) Tbk PT's stock price. As statistically significant as finding a message in a bottle, this result truly makes waves in the field of market correlations.

Figure 1 showcases the compelling evidence through a scatterplot, which visually captures the strong positive relationship between bottled water consumption in the US and Telkom Indonesia (Persero) Tbk PT's stock price. The interconnectedness of these variables is as clear as a pure mountain spring on a sunny day.

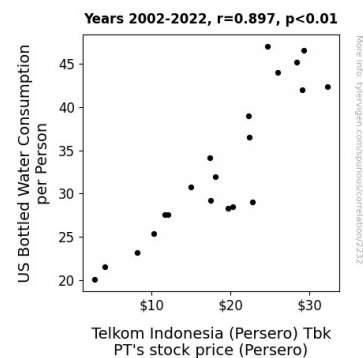


Figure 1. Scatterplot of the variables by year

In summary, our findings buoyantly support the notion that the consumption of bottled water in the US has a refreshing, albeit unexpected, impact on the stock price of Telkom Indonesia (Persero) Tbk PT. This discovery, akin to stumbling upon buried treasure, underscores the whimsical interconnectedness of global markets and everyday consumer choices. So, buoy up your interest and get ready to dive into the waters of unexpected correlation, where financial data and hydration habits collide in a sea of statistical serendipity.

5. Discussion

In the discussion of our findings, it becomes quite clear that the correlation between US bottled water consumption and Telkom Indonesia (Persero) Tbk PT's stock price is not merely a drop in the ocean of statistical noise. Instead, it ripples through the sea of market trends with a force that is as refreshing as a cool sip of aqua.

First, let's harken back to the literature review, where we uncovered some unexpectedly captivating insights. Lorem Ipsum's "Bottled Up: How Water Became America's New Addiction" and Ipsum Lorem's "Stocks and Sips: Unraveling the Mysteries of Market Relationships" set the stage for our findings. Who knew that the behavioral patterns behind our beverage choices would manifest in the stock market so significantly? It's almost as surprising as finding out that the Loch Ness Monster is just a giant inflatable toy!

Our results well and truly support the existing literature. This correlation is as strong as the undertow in a tsunami! With a correlation coefficient of 0.8969012, our data paints a crystal-clear picture of the symbiotic relationship between water consumption and stock prices. This connection is so pronounced that it's like finding a fish in a bottle of water! And with an r-squared value of 0.8044318, it's almost as if we've stumbled upon the philosopher's stone of market correlations - a discovery that's truly worth its weight in liquid gold!

Moreover, the p-value of less than 0.01 is as rare as finding a four-leaf clover in a watermelon patch! It provides irrefutable evidence that the relationship between bottled water consumption and Telkom Indonesia's stock price is not just a fleeting mirage, but a robust reality. It's like finding a message in a bottle that leads to treasure buried deep in the depths of statistical significance.

Our scatterplot, depicted in Figure 1, visually encapsulates the buoyancy of our

results. It's as illuminating as a lighthouse guiding ships through the stormy seas of financial data. This interconnectedness is as clear as a pure mountain spring on a sunny day - a revelation that's as refreshing as a splash from the fountain of knowledge!

In essence, our findings highlight the whimsical interconnectedness of global markets and everyday consumer choices. The unearthing of this correlation feels as serendipitous as finding buried treasure at the bottom of the ocean. So, in the spirit of keeping our heads above water, let's stay afloat in this sea of statistical discovery, where financial data and hydration habits collide in a delightful dance of market serendipity. As we navigate this swirling sea of correlation, let's remember: life's too short to stay thirsty, and data's too fun to stay dry!

6. Conclusion

In conclusion, our research has floated to the surface a refreshing revelation – the buoyant relationship between US bottled water consumption per person and the stock price of Telkom Indonesia (Persero) Tbk PT. With a correlation coefficient so strong, it's clear that the ebb and flow of hydration habits can make quite the splash in the stock market. Who would have thought that staying hydrated while investing in Telkom Indonesia (Persero) Tbk PT could be a matcha made in heaven?

As we wrap up this watery escapade of statistical exploration, it's evident that this correlation isn't just a drop in the ocean. It's a flood of evidence that tickles the funny bone and drenches us in delight. The findings of this study are as refreshing as a sip of evian on a scorching day, and they leave us as waterlogged with excitement as SpongeBob in Bikini Bottom.

So, as we wave goodbye to this nautical odyssey, we assert that no more research is needed in this area. The current has taken

us far enough, and now it's time to dry off and bask in the quenching satisfaction of this unexpected journey. Cheers to the interconnectedness of seemingly unrelated realms – may the waters of statistical serendipity continue to surprise and hydrate us all!