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# The Soybean Saga: Unveiling the Connection Between GMO Adoption in Missouri and the Global Proliferation of Hollister Stores

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## KEYWORDS

GMO adoption, soybean cultivation, Missouri, global proliferation, Hollister stores, correlation coefficient, p-value, USDA data, Statista, retail globalization, agricultural practices, unexpected ties

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## Abstract

In this study, we delve into the enigmatic interplay between the adoption of genetically modified organisms (GMOs) in soybean cultivation in Missouri and the worldwide proliferation of Hollister retail stores. With a dash of curiosity and a sprinkle of statistical savvy, we harnessed data from the USDA and Statista to uncover the curious correlation that has been sprouting in the background. Our findings reveal a staggering correlation coefficient of 0.8596324 and a p-value less than 0.01 between the years 2000 and 2022, shedding light on an unexpected relationship that has been simmering beneath the surface. With a kernel of excitement, we present our analysis, uncovering the soybean-Hollister connection that has remained under wraps for far too long. The results not only add a dash of spice to the GMO discourse but also offer a thought-provoking twist to the dynamism of retail globalization. As we bring this revelation to light, we invite readers to ponder the profound question: could soy-based shenanigans be the soy-urce of the trend in Hollister expansion? While the specifics of this connection may remain cloaked in mystery, one thing's for soy: it's time for a closer examination of the unexpected ties between agricultural practices and the retail landscape. So, let's bean to unravel this conundrum and see where the seeds of correlation lead us, perhaps unearthing a kernel of truth that's been soy elusive.

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## 1. Introduction

In the world of modern agriculture and retail, connections often sprout in the most

unexpected places. Consider the humble soybean, a staple of the American heartland, and contrast it with the trendy and fashionable domain of Hollister, a global purveyor of surf-inspired apparel. At first glance, one might assume these two entities have as much in common as a tractor and a surfboard. However, as we will unravel in this exploration, there exists a curious correlation that we simply cannot bean to ignore.

Dad joke alert! Why did the soybean go to the mall? To do some shopping for soy-cial attire!

The widespread adoption of genetically modified organisms (GMOs) transformed the landscape of soybean cultivation in the United States, and Missouri found itself at the heart of this agricultural evolution. Concurrently, the Hollister retail empire has expanded its footprint across the globe, from bustling metropolises to beachfront paradises. As we dig deeper into these seemingly disparate developments, a peculiar pattern begins to emerge, akin to a corn maze leading straight to the shore.

Speaking of peculiar patterns, what do you call a soybean who's a comedian? A soy-jokester!

This paper aims to uncover the latent connection between the rise of GMO soybeans in Missouri and the proliferating presence of Hollister stores worldwide. By harnessing data from reputable sources such as the U.S. Department of Agriculture (USDA) and Statista, we embarked on a journey that would plant the seeds of curiosity and reap a harvest of revelations. Our approach involved rigorous statistical analysis, allowing us to quantify the correlation and causation underlying this unexpected relationship.

Now, to address the soy-rious question at hand: are GMO soybeans in Missouri and the global proliferation of Hollister stores merely a coincidental pairing, or could there

be a deeper, soy-ntific explanation at play? As we delve into the findings, we invite readers to join us in this soyjourn, where curiosity blooms and statistical analysis bears fruit, all while prodding at the roots of this fascinating interplay.

Before we dive into the soy-bean field, let's not forget to grab our sense of humor along the way. As we sift through the soybean saga, expect a few punny vinaigrettes to lighten the research mood, for what's a scholarly expedition without a sprinkle of levity? With that in mind, let's dig deep and plant the seeds of knowledge as we unearth the mysteries of soybeans and surf-inspired retail, because sometimes, in the world of academia, a little laughter is the best fertilizer.

## 2. Literature Review

The connection between agricultural practices and the dynamics of global retail expansion has garnered increasing scholarly interest in recent years. In their comprehensive study, Smith et al. (2018) examined the impact of genetically modified soybeans on agricultural productivity in the Midwest region. Their findings highlighted the substantial yield improvements associated with GMO adoption, shaping the landscape of soybean cultivation in states such as Missouri. Furthermore, Doe and Jones (2020) conducted a meta-analysis of retail globalization, elucidating the multifaceted strategies employed by leading apparel brands to expand their market presence across diverse geographical regions.

Now, let's sprinkle in a relevant dad joke: What did the soybean say to the farmer? "Hey, I'm soybean you around!"

Turning to non-fiction literature, "The Omnivore's Dilemma" by Michael Pollan delves into the intricate web of agricultural practices and their impacts on consumer

behavior, providing valuable insights into the soybean industry's developments. Another noteworthy contribution is "The Shock Doctrine" by Naomi Klein, which explores the influence of globalization on commercial enterprises, offering a broader perspective on the expansion strategies employed by retail corporations.

In a surprising twist, let's spice things up with fiction: "The Bean Trees" by Barbara Kingsolver whimsically unravels a tale of unexpected connections and transformation, mirroring the mysterious correlation we seek to unearth between soybean cultivation and retail proliferation. Similarly, in "Surfacing" by Margaret Atwood, the protagonist's journey of self-discovery echoes the enigmatic nature of the soybean-Hollister connection, albeit amidst a distinct narrative landscape.

As we journey into the whimsical realm of pop culture for inspiration, the timeless animated series "SpongeBob SquarePants" provides a surprisingly relevant perspective. SpongeBob's unwavering optimism and quest for adventure parallel our own quest to unravel the soybean-Hollister saga, reminding us that even in the most unexpected places, meaningful connections can be found. Furthermore, the playful antics of "Phineas and Ferb" offer a lighthearted reminder that innovation and curiosity often lead to extraordinary discoveries – a sentiment that resonates with our approach to this unconventional research endeavor.

To break up the scholarly monotony, here's a soy-lid dad joke: Why was the soybean afraid to enter the retail store? It had a fear of soy-cial anxiety!

This eclectic blend of literature and media sources sets the stage for a thought-provoking exploration of the unexpected intersection between soybean cultivation and global retail dynamics. As we delve deeper into the soybean saga, these

diverse perspectives serve as a reminder that unconventional correlations can bear fruit in the most unlikely of places. So, with a soyful of curiosity and a sprinkle of statistical rigor, let's unearth the soybean-Hollister mystery and shed light on this peculiar connection.

### 3. Our approach & methods

In this study, we employed a hybrid approach that blended quantitative analysis with a hint of whimsy to unravel the enigmatic connection between GMO soybean adoption in Missouri and the worldwide proliferation of Hollister stores. Our research was conducted using data spanning from 2000 to 2022, sourced from reputable repositories such as the U.S. Department of Agriculture (USDA) and Statista. To sow the seeds of understanding, we concocted a methodological brew that brewed curiosity with a touch of statistical rigor and a dash of dad jokes for good measure.

To commence our endeavor, we utilized a multilateral data collection process that involved scouring the depths of the internet, dredging up essential details from reports, databases, and digital archives reminiscent of a soybean hunt. We meticulously combed through USDA records regarding GMO soybean adoption rates in Missouri and harnessed the comprehensive retail data from Statista to account for the global distribution of Hollister stores.

As our data collection efforts unfolded, we embodied the spirit of an avid detective, deftly sifting through the digital haystack to locate the soy-ought-after needles that held the crux of our investigation.

Following the bountiful harvest of data, we ventured into the statistical domain, where we employed robust analytical techniques to examine the relationship between GMO soybean adoption and the proliferation of

Hollister stores. We leveraged advanced statistical software to perform correlation and regression analyses, scrutinizing the data for signs of a meaningful connection.

The statistical analyses were akin to planting seeds of correlation and watching them germinate into insightful findings, offering a meticulously crafted approach that balanced soy-ntific precision with a sprout of intrigue.

In addition to the quintessential statistical analyses, we embraced the art of storytelling through data visualization, creating compelling charts and graphs to illustrate the ebbs and flows of GMO soybean adoption in Missouri and the global presence of Hollister stores. This visual narrative augmented our findings, blooming into an engaging depiction of the soybean-Hollister saga that transcended the confines of traditional statistical discourse.

As we navigated this winding soybean-infused pathway, we remained vigilant for any potential sources of bias or confounding variables that could skew our analysis. To bean-guard against such missteps, we conducted sensitivity analyses and robustness checks, acting as diligent stewards of statistical integrity and ensuring that our findings sprouted from sound methodological soil.

During our analysis, we fostered the spirit of academic inquiry while sprinkling in intermittent moments of levity, honoring the traditions of scholarly discourse with a whimsical twist. This approach not only enriched the research process but also cultivated a research environment where the quest for knowledge was complemented by the joy of discovery, akin to unearthing a particularly amusing dad joke in a soil of scholarly solemnity.

As we ventured through the patchwork of statistical analyses, we distilled the essence of the soybean-Hollister entanglement, transforming raw data into a compelling

narrative that reflected the kaleidoscope of correlations and causations underlying this unexpected association.

In the following sections, we shall unfurl the bountiful findings of our metamorphosis into researchers of the soybean-Hollister connection, offering a harvest of insight that tangibly captures the essence of this entwined agricultural and retail saga.

Adding a grain of humor to our research, we recognized that even the most rigorous scholarly pursuits benefit from a sprinkle of levity, just like a healthy dose of soy sauce enhances the flavor of a meticulously prepared dish. With this ethos in mind, we invite readers to embark on the soybean and retail adventure that awaits, where statistical analysis meets unexpected amusement, and scholarly investigation encounters the whimsical whispers of the soybean saga.

Now, dear reader, as we culminate our methodological revelations, let us rouse the spirit of scholarly curiosity and brace ourselves for the forthcoming unveiling of our soybean-Hollister odyssey. For, as the saying goes, one must first plant the methodological seeds to reap the dividend of scholarly discovery!

#### 4. Results

Our rigorous analysis of the data from 2000 to 2022 has unearthed a striking correlation between the adoption of genetically modified organisms (GMOs) in soybean cultivation in Missouri and the global proliferation of Hollister retail stores. The correlation coefficient of 0.8596324 and an r-squared value of 0.7389678 underscore the robustness of this association, indicating a substantial relationship between these seemingly unrelated domains.

Figure 1 illustrates the strong positive correlation between the prevalence of GMO soybeans in Missouri and the escalating

count of Hollister retail stores worldwide. The scatterplot visually captures the trend, painting a compelling picture of their intertwined growth over the years.

Now, to inject a bit of soybean humor into the mix: Why did the soybean sit down at the Hollister store? To find some stylish soy-lutions for its wardrobe!



Figure 1. Scatterplot of the variables by year

This unexpected revelation calls for a moment of reflection. Who would have thought that the humble soybean, often portrayed as a mere legume of the agricultural landscape, could potentially hold sway over the spatial distribution of a global retail brand? As we bask in the glow of this unanticipated discovery, it becomes increasingly evident that the soybean-Hollister connection warrants further inquiry.

Our findings not only offer a soy-bering reminder of the intricate interconnections that underpin modern agricultural and retail dynamics but also compel us to contemplate the broader implications of this correlation. Could soybeans, with their variable genetic modifications, be inadvertently influencing the geographic expansion strategies of a fashion giant like Hollister? The thought is as intriguing as it is amusing, injecting a dash of soybean whimsy into the serious realm of agricultural and economic research.

In light of these revelations, it is clear that the relationship between GMO soybeans in Missouri and the proliferation of Hollister retail stores transcends mere happenstance. This unexpected correlation challenges traditional notions of causality, prompting a soy-rious reevaluation of the intricate web of influences that shape our global commercial landscape. As we set our sights on unraveling the soybean saga, we invite scholars and enthusiasts alike to join us in this soy-arming exploration of connections that extend beyond the bean patch and the boardwalk.

## 5. Discussion

Our study has uncovered an intriguing correlation between the adoption of genetically modified organisms (GMOs) in soybean cultivation in Missouri and the worldwide proliferation of Hollister retail stores, shedding light on an unexpected but robust relationship. This finding not only echoes the agricultural sector's impact on global retail dynamics but also reflects the multifaceted nature of commercial expansion strategies employed by leading brands.

In line with Smith et al.'s (2018) study on the significant yield improvements associated with GMO adoption, our results support the notion that the evolution of soybean cultivation practices in Missouri has had broader repercussions. As our data unequivocally demonstrates, the steep ascent in the count of Hollister retail stores aligns with the increased adoption of GMO soybeans. The statistics speak for themselves, substantiating the unexpected tether between soybean cultivation and the global retail landscape.

The unexpected correlation we've unraveled allows us to blend a touch of humor into our pursuit of knowledge. As we discuss the influence of soybeans on the proliferation of Hollister stores, let's bean-dly acknowledge

the unexpected hilarity in this connection. Who knew that soybeans could hold sway over the geography of a fashion giant, sprouting entirely new dimensions to the agricultural and retail narrative?

Going back to the literature review, the unexpected tie-in with "The Bean Trees" by Barbara Kingsolver and "Surfacing" by Margaret Atwood takes on a whole new significance. These seemingly whimsical references now carry soy bean-depth thematic resonances, mirroring the surprising correlation we've stumbled upon. It's a delightful reminder that unexpected connections can indeed be soy-rces of profound revelations.

Soy, what's next? As we delve deeper into the soybean-Hollister saga, it's apparent that this correlation is more than a mere statistical curiosity. It challenges our understanding of the far-reaching implications of agricultural practices on global commercial enterprises, beckoning us to contemplate the myriad ways in which seemingly unrelated domains can intertwine.

In conclusion, our findings provide a soy-bering reminder of the intricate interconnections that underpin modern agricultural and retail dynamics, urging us to look beyond the bean patch and the boardwalk in our quest for understanding. As we continue to peel back the layers of this peculiar connection, there's one thing we know for soy, this research has certainly bean a fascinating journey.

## 6. Conclusion

In conclusion, our study has shed light on the unexpected correlation between the adoption of GMO soybeans in Missouri and the global proliferation of Hollister stores. While initial skepticism may have likened this connection to pairing salsa with a soybean, our rigorous analysis has

unmasked a substantial relationship, leaving us to ponder the soy-phisticated interplay between agricultural practices and retail trends.

Dad joke alert! Why don't soybeans ever tell secrets? Because they always end up spilling the edamame!

Our analysis has not only sowed the seeds of curiosity but also uprooted conventional wisdom, revealing the sprouting influence of soybean cultivation on the global retail landscape. We must now soy-lidify our understanding of this correlation and appreciate the soy-ful impact of genetically modified soybeans on retail expansion.

Dad joke alert! Why did the soybean bring a flashlight to the Hollister store? Because it heard it was stocking up on some soy-smetics!

As we bring this research expedition to a close, it is evident that no more research is needed in this area. Thank you for joining us on this soy-urprise-filled journey, as we've unmasked the curiously tangled relationship between soybeans and Hollister stores. It's been a delightful soy-ance!