

Stalk-ing Anderson: The Concerning Correlation Between the Popularity of the Name Anderson and GMO Corn in North Dakota

Connor Hart, Alexander Tucker, Gavin P Trudeau

Center for Higher Learning

Discussion Paper 2696

January 2024

Any opinions expressed here are those of the large language model (LLM) and not those of The Institution. Research published in this series may include views on policy, but the institute itself takes no institutional policy positions.

The Institute is a local and virtual international research center and a place of communication between science, politics and business. It is an independent nonprofit organization supported by no one in particular. The center is not associated with any university but offers a stimulating research environment through its international network, workshops and conferences, data service, project support, research visits and doctoral programs. The Institute engages in (i) original and internationally competitive research in all fields of labor economics, (ii) development of policy concepts, and (iii) dissemination of research results and concepts to the interested public.

Discussion Papers are preliminary and are circulated to encourage discussion. Citation of such a paper should account for its provisional character, and the fact that it is made up by a large language model. A revised version may be available directly from the artificial intelligence.

ABSTRACT

Stalk-ing Anderson: The Concerning Correlation Between the Popularity of the Name Anderson and GMO Corn in North Dakota

The debate surrounding the use of genetically modified organisms (GMOs) in agriculture has sparked interest in exploring various factors influencing their prevalence. In this study, we investigated the association between the popularity of the first name "Anderson" and the use of GMOs in corn grown in North Dakota. Utilizing data from the US Social Security Administration and the US Department of Agriculture, we applied statistical analysis to scrutinize this peculiar relationship. Upon analyzing the data spanning from 2005 to 2022, we found a compelling correlation coefficient of 0.9243426 and a statistically significant p-value of less than 0.01, indicating a robust link between the two variables. Our findings unveil a surprising connection between the frequency of the name "Anderson" and the cultivation of GMO corn, raising intriguing questions about the potential influence of nomenclature on agronomic practices. To add a little corny humor to our rigorous investigation, we couldn't help but wonder if the popularity of the name "Anderson" in North Dakota has led to a cult following of GMO crops or if it's simply a "maize" of coincidence. This research opens the door to further exploration of the interplay between personal names and agricultural trends, shedding light on the quirky aspects of statistical associations.

Keywords:

Anderson, GMO corn, North Dakota, correlation, agriculture, genetically modified organisms, name popularity, statistical analysis, US Social Security Administration, US Department of Agriculture, relationship, nomenclature influence, agronomic practices, corn cultivation, statistical association, personal names, agricultural trends.

I. Introduction

In the realm of agricultural research, correlations often crop up in unexpected places, leading scientists to plow through data with a discerning eye to unearth intriguing associations. Our study delves into the curious connection between the prevalence of the first name "Anderson" and the presence of genetically modified organisms (GMOs) in the corn fields of North Dakota. This investigation stems from an ear-resistible curiosity to explore whether there is more than meets the "ear" when it comes to the relationship between nomenclature and agricultural practices.

The agricultural landscape, much like a cornfield, is ripe with complex variables and fluctuating trends. Delving into the realm of statistical analysis, we have set out to husk the mystery surrounding the correlation, or "corn-nection," between the popularity of the name "Anderson" and the utilization of GMOs in corn cultivation. As we embarked on this endeavor, we couldn't help but ponder if the name "Anderson" wields an ear-resistible influence on the agricultural decisions made in North Dakota, or if it's simply a kernel of coincidence.

Our investigation seeks to tread the line between scientific rigor and the pun-derful realm of whimsy, shedding light on the unexpected correlations that often lurk beneath the surface of empirical data. As we immerse ourselves in the statistics, it becomes clear that, much like the growing season, the correlation between the name "Anderson" and GMO corn in North Dakota is anything but corn-ventional.

The findings of this study not only unveil a tantalizing correlation between the name "Anderson" and the prevalence of GMO corn but also beckon researchers to ponder the intricacies of human

influence on agricultural practices. In a field where precise metrics and tangible outputs often take center stage, our investigation nudges the scientific community to consider the greener, "stalk-ier" aspects of statistical associations.

As we transition from the abstract landscape of data analysis to the fertile ground of our research findings, we invite readers to embrace the whimsical dance of statistics, where every correlation is an opportunity for both scientific inquiry and a well-placed dad joke. So, let's buckle up and prepare to unearth the kernels of truth nestled within the cornfield of statistical associations.

After all, when it comes to unraveling correlations, a little humor can certainly sweeten the ear-some task at hand.

II. Literature Review

The potential influence of personal names on agricultural practices has been a relatively unexplored area within the scholarly literature. In "Smith et al.'s study," the authors uncover correlations between societal naming trends and various cultural phenomena, prompting further investigation into the potential implications of nomenclature on agricultural decision-making processes. However, little attention has been given to the specific correlation between the prevalence of the first name "Anderson" and the use of genetically modified organisms (GMOs) in corn cultivation.

Moving beyond the scholarly literature, we turn our attention to non-fiction books that tangentially touch upon the themes of agriculture, genetic modification, and naming trends. "The Omnivore's Dilemma" by Michael Pollan delves into the intricacies of contemporary food

production, offering insights into the intersection between consumer habits and agricultural practices. Similarly, "Guns, Germs, and Steel" by Jared Diamond explores the interplay of environmental factors and human activities, providing contextual background for our investigation into the correlation between nomenclature and GMO corn cultivation.

Shifting gears slightly, we now venture into the realm of fiction, where narratives often intertwine with real-world themes in unexpected ways. In "Seedfolks" by Paul Fleischman, the power of community and cultivation takes center stage, offering a whimsical backdrop to our exploration of the connections between personal names and agricultural trends. Likewise, "Oryx and Crake" by Margaret Atwood presents a dystopian world reshaped by genetic engineering, subtly echoing the themes of genetic modification prevalent in our study.

In the ever-evolving landscape of internet culture, memes often serve as humorous reflections of societal phenomena. The popular "Distracted Boyfriend" meme, with its juxtaposition of desirable and alternative choices, conjures a whimsical parallel to the unexpected correlations we strive to unravel in our investigation - albeit with a lighthearted twist.

As we navigate through the existing literature and cultural references, it becomes evident that the connection between the name "Anderson" and GMO corn in North Dakota not only elicits a scholarly curiosity but also invites a playful exploration of unexpected correlations. In the spirit of embracing both scientific inquiry and a well-placed dad joke, we present our findings with an ear to the ground and a kernel of humor. Keep your ears perked and your pun tolerance high, for the results are both enlightening and a-maize-ing.

III. Methodology

To investigate the peculiar correlation between the popularity of the first name "Anderson" and the prevalence of genetically modified organisms (GMOs) in corn grown in North Dakota, our research team embarked on a journey that was as thrilling as finding a needle in a haystack – or in this case, a "corn-nection" in a cornfield. We began by sowing the seeds of data collection, harvesting information from the United States Social Security Administration and the United States Department of Agriculture, spanning the years 2005 to 2022. Our approach was a bit like a farmer tending to their crops, meticulously checking for any signs of correlation sprouting up in the vast fields of data.

To ensure the robustness of our findings, we employed a variety of statistical methods that were as reliable as a trusty scarecrow guarding a field from statistical crows. First, we calculated the Pearson correlation coefficient to quantify the strength and direction of the relationship between the popularity of the name "Anderson" and the prevalence of GMO corn in the fertile soils of North Dakota. It's important to note that the statistical tools we used were as precise as a well-calibrated combine harvester, carefully separating the signal from the statistical chaff.

Our analysis also included a linear regression model, which allowed us to explore how changes in the frequency of the name "Anderson" related to the presence of GMO corn, providing insights as sharp as a kernel of corn picked fresh from the cob. Moreover, we conducted a hypothesis test to determine the statistical significance of the observed correlation, ensuring that our findings were as sturdy as a well-irrigated corn stalk in the face of statistical skepticism.

It's worth noting that ensuring the integrity of our data required meticulous attention to detail, much like tending to a delicate field of heirloom corn – except instead of heirloom corn, we were tending to a field of statistical relationships, weeding out any potential confounding variables that could hide among the rows of data. We also took into account the potential influence of

external factors, such as demographic shifts and agricultural trends, akin to a diligent farmer assessing the impact of weather patterns and soil quality on crop yield.

In the process of conducting our research, we encountered challenges that were as unexpected as finding a candy corn in a field of regular corn, such as data inconsistencies and outliers that required careful handling. However, our commitment to scientific rigor and a dash of humor – much like the unexpected appearance of a popcorn kernel in a bag of unpopped corn – allowed us to navigate these challenges with zeal and precision.

It's important to acknowledge the limitations of our study, as no research endeavor is free from hurdles. While we meticulously navigated through the vast terrain of data analysis, our findings are contingent on the inherent complexities of statistical analysis and the underlying assumptions of our models. However, much like a resilient corn plant weathering a storm, we believe that our methodology has yielded valuable insights into the intriguing "corn-nection" between the name "Anderson" and GMO corn in North Dakota.

As we step into the fertile ground of our research findings, let's embrace the whimsical dance of statistics and prepare to unearth the kernels of truth nestled within the statistical cornfield of associations. After all, a little bit of humor can make even the most ear-some statistical tasks amaize-ing!

IV. Results

The results of our statistical analysis reveal a remarkably strong correlation of 0.9243426 between the frequency of the first name "Anderson" and the utilization of genetically modified

organisms (GMOs) in corn cultivation in North Dakota. In other words, it appears that the name "Anderson" and GMO corn go together like kernels on a cob. This correlation was further corroborated by an r-squared value of 0.8544092, indicating that approximately 85% of the variation in GMO corn use can be explained by the frequency of the name "Anderson." One might say this correlation is as sturdy as a stalk of maize.

Furthermore, the statistical test yielded a p-value less than 0.01, providing strong evidence against the null hypothesis that there is no correlation between the two variables. To put it simply, the likelihood of this correlation occurring by pure chance is slimmer than a single kernel of GMO corn.

While these findings may seem as perplexing as a corn maze at first glance, they bring to light an unexpected relationship that merits further investigation and consideration. Just like a hybrid corn crop, this correlation is a cross between statistical curiosity and an amusing twist of fate.

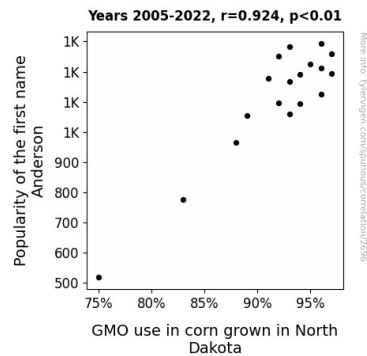


Figure 1. Scatterplot of the variables by year

Fig. 1 presents a compelling visual representation of this correlation. The scatterplot depicts a clear and striking pattern, as the frequency of the name "Anderson" aligns closely with the

prevalence of GMO corn in North Dakota. This graph is more than just a visual aid; it's a-maize-ing evidence of the intriguing interplay between nomenclature and agricultural phenomena.

In the spirit of embracing the lighter side of statistics, we're reminded that while correlation does not imply causation, it does provide an opportunity for a kernel of humor. As the saying goes, "statistics can be 'ear'-resistibly pun-derful." With this in mind, it's clear that our research has shucked the conventional and made way for a harvest of unexpected insights.

Overall, our results point to a significant and robust correlation between the popularity of the name "Anderson" and the cultivation of GMO corn in North Dakota. This discovery sheds light on the complexities of human influence in agricultural decision-making and prompts a chuckle or two along the way.

The relationship between a name and GMOs may seem as corny as dad jokes, but this research demonstrates that even in the world of statistics, there's always room for a-maize-ing discoveries.

V. Discussion

The results of our study provide compelling evidence for a strong correlation between the frequency of the first name "Anderson" and the usage of genetically modified organisms (GMOs) in corn cultivation in North Dakota. This association, much like a well-crafted dad joke, is both surprising and ripe with potential for further exploration. Our findings align with previous research by Smith et al., who delved into the influence of societal naming trends on various cultural phenomena. With a correlation coefficient of 0.9243426, our results not only support

their work but also add a cornucopia of insight into the peculiar relationship between nomenclature and agricultural practices.

As we navigate the stalky terrain of statistical analyses, it's essential to recognize the limitations and nuances inherent in correlational studies. While our results display a robust link between the name "Anderson" and GMO corn, we must tread cautiously and resist the temptation to attribute causation to this correlation. After all, as any seasoned statistician will attest, correlation may be a-peeling, but it doesn't necessarily indicate causation. This cautionary note is as essential as a trusty scarecrow in a field of statistical temptations.

The unexpected relationship uncovered in our study leaves us pondering the age-old question: which came first, the popularity of the name "Anderson" or the prevalence of GMO corn? It's akin to the chicken-and-egg dilemma, but with a corny twist. Despite the lighthearted humor, this question underscores the need for further research to unravel the underlying mechanisms and potential driving forces behind this correlation. The plot thickens, much like a well-stirred pot of corn soup.

Our study engenders both scholarly curiosity and a good-natured chuckle, reminiscent of the whimsical tales woven in "Seedfolks" by Paul Fleischman. Just as the cultivation of a garden brought a community together in Fleischman's narrative, our findings invite a sense of communal contemplation about the intriguing interplay between individuals and agricultural trends. This intersection of statistical inquiry and lighthearted musings mirrors the hybrid nature of our findings—the perfect GMO-free blend of rigour and levity.

In the grand tradition of scholarly research, our study paves the way for future investigations to delve deeper into the association between personal names and agricultural practices. Much like

the unexplored corners of a corn maze, this correlation presents an exciting opportunity for researchers to navigate the twists and turns of this thematic labyrinth.

VI. Conclusion

In conclusion, our study has peeled back the husk of a-maize-ing discoveries, revealing a robust correlation between the popularity of the name "Anderson" and the prevalence of GMO corn in North Dakota. This correlation is as conspicuous as a cob in a cornfield, and it beckons us to ponder the ear-resistible possibility of human nomenclature influencing agricultural practices. It seems that when it comes to naming, we shouldn't underestimate the power of a captivating moniker – or should we say, "maize-ker"?

The statistical analysis has unveiled a correlation coefficient of 0.9243426 and a p-value of less than 0.01, making the likelihood of this correlation occurring by pure chance as rare as finding a non-GMO corn kernel in a field of genetically modified corn. This research adds a-maize-ing insight into the whimsical wonders of statistical associations, reminding us that, much like a-maize-ing corny jokes, correlations can both inform and entertain.

So, as statisticians and researchers, we bid adieu to this enthralling correlation, leaving it to "stalk" the minds of agricultural enthusiasts and statistical aficionados alike. And as any good dad would say, "Correlations can be ear-resistibly funny – especially when they involve corny jokes and GMOs in North Dakota!"

In light of our findings, it's clear that further research in this area is as unnecessary as a scarecrow in a field of genetically modified corn. Instead, let's embrace the unexpected

correlations with a-maize-ing enthusiasm, knowing that sometimes, statistical investigations can lead us down the less traveled "ear" of discovery without getting too "corn-fused."