
Red-state Republicans and Retail Rendezvous: Correlating Senatorial Support with Searches for Swirling Suds

Catherine Hart, Alexander Thompson, Gabriel P Trudeau

Abstract

In this study, we investigate the curious correlation between Republican votes for Senators in the red desert state of New Mexico and the surge in Google searches for "where to buy bleach." Our research team delved into patterns from 2004 to 2020 using data from MIT Election Data and Science Lab, Harvard Dataverse, and Google Trends. The results revealed a striking correlation coefficient of 0.8672499 with a p-value less than 0.05, indicating a statistically significant relationship between political preferences and cleaning supply inquiries. As we unraveled the enigmatic connection, we couldn't help but ponder if New Mexicans were seeking political solace in the cleansing aspects of bleach or simply trying to eradicate tough stains. Perhaps they were in search of a political "bleach of contract"? Our findings open the door to further exploration of the quirky intersections between election dynamics and retail therapy. After all, politics may be messy, but it seems like New Mexicans are not afraid to roll up their sleeves and clean house.

1. Introduction

As the age-old adage goes, "When the going gets tough, the tough go shopping for cleaning supplies." This sentiment may seem outlandish, but our research seeks to shed light on the curious correlation between political preferences and the quest for pristine surfaces. Ladies and gentlemen, welcome to the quirky world of statistical analysis where discussions about political allegiances unexpectedly lead us to ponder the merits of lemon-scented disinfectants.

In the realm of political science, researchers often grapple with deciphering the labyrinth of factors that influence voter behavior. However, few have ventured into the realm of retail rendezvous and its potential influence on political ideology. Of course, when considering the connection between Republican votes for Senators in New Mexico and the surge in Google searches for "where to buy bleach," one cannot help but wonder whether the electorate was seeking a sparkly clean political landscape or simply battling a stubborn stain of partisan politics.

Our journey into this uncharted territory was driven by an insatiable curiosity - much like a cat who just can't resist knocking over test tubes in a science lab. Our intrepid team of researchers delved into the world of data, armed with statistical models, graphs, and a healthy dose of skepticism. After all, in the realm of academia, skepticism is the compass that

guides us through the forest of statistical noise and ne'er-do-well variables.

With a database encompassing the years 2004 to 2020, we commenced our expedition armed with data from the esteemed MIT Election Data and Science Lab, Harvard Dataverse, and the digital oracle known as Google Trends. We sought patterns, not unlike archaeologists unearthing ancient relics, except our artifacts were scatter plots and regression coefficients rather than golden idols and cryptic inscriptions.

As we navigated this unconventional landscape, our first encounter was with a perplexing correlation coefficient of 0.8672499, with a p-value that gleamed like a freshly bleached countertop - less than 0.05, signifying a statistically significant relationship. The weight of these findings prompted us to delve deeper, unearthing a correlation as undeniable as the tendency of a well-placed pun to elicit an eye-roll from colleagues.

Our investigation led us to question whether the citizens of New Mexico were invoking the spirit of cleanliness as a metaphor for political purification, or simply had an affinity for a spotless domicile. Maybe they were in search of a bipartisan bleaching agent to sanitize the tarnished halls of political discourse. One can't help but wonder if they were pondering the existential question of "to bleach or not to bleach" as they navigated the tumultuous waters of electoral decision-making.

As we embark on this scholarly endeavor, let us remember the wise words of Sir Francis Bacon: "If a little knowledge is dangerous, where is the man who has so much as to be out of danger?" So, join us in this expedition of empirical exploration, where we navigate the treacherous seas of political inquiry armed with our trusty scientific toolkit and the occasional cringe-worthy dad joke.

The results are in, and they are not chloro-bleaching around. Our foray into the uncharted territory of political preferences and retail rendezvous has revealed a correlation that is as vivid as a neon "Sale on Bleach" sign at a supermarket. Let us boldly venture forth into this scientific odyssey, as we seek to unveil the glistening, multifaceted truth behind the enigmatic connection between red-state Republicans and their quest for swirling suds.

2. Literature Review

In "The Political Landscape of New Mexico: A Statistical Analysis," Smith et al. explore the intricate web of political allegiances in the red desert state. The authors meticulously dissect voting patterns and demographic characteristics, providing a comprehensive overview of political dynamics. However, the study notably overlooks the intriguing correlation between Senatorial support and the intriguing surge in searches for cleaning agents.

Doe and Jones, in "Election Dynamics: A Comprehensive Examination," provide a detailed analysis of electoral trends from 2004 to 2020, offering valuable insights into the factors influencing voter behavior. While their research delves into the complexities of political decision-making, it fails to capture the compelling connection between Republican votes and the sudden interest in household cleaning products.

Now, let's take a humorous detour and consider the book "Bleach and Punishment: The Art of Stain Eradication" by Cleanman Scrubs. While not a serious academic work, this fictional account remarks on the enduring quest for immaculate surfaces and adds a whimsical touch to our exploration of cleaning-related literature.

In a more serious vein, "The Clean Slate: A Political Analysis of Household Hygiene" by Tidy McSqueaky explores the intersection of domestic cleanliness and political symbolism, providing a thought-provoking perspective on the topic. Although not directly related to political voting patterns, it offers a compelling examination of societal attitudes toward cleanliness and order.

In a surprising twist, the fictional novel "Bleach Wars: The Battle for Sparkling Countertops" by Scentia Scrubsworth captivates readers with its whimsical portrayal of a bleached battleground. Though seemingly unrelated to our scholarly pursuit, one can't help but chuckle at the imaginative scenarios proposed in this lighthearted work.

In a lighter citation, a social media post by @SqueakyClean2020 humorously quips, "After watching those political debates, I'm considering googling 'where to buy bleach' just to clean my

eyes!" While certainly comical, this anecdotal remark hints at the potential intersection of political events and household cleaning products in the digital sphere.

Taking an offbeat turn, another tweet from @PolishedPolitics muses, "Is there a correlation between voting preferences and the choice of cleaning supplies? Interesting to ponder..." while this may appear to be a lighthearted tweet, it underscores the curiosity surrounding our research topic and hints at a broader societal fascination with this unexpected correlation.

Now, back to the serious literature, "The Bleaching Point: A Psychological Examination of Cleanliness and Decision-Making" by Scrubworthy and Wipestein delves into the psychological underpinnings of cleanliness, shedding light on potential connections with decision-making processes. While not explicitly focused on political contexts, this work offers intriguing insights that may inform our understanding of the correlation under investigation.

Just as a well-timed dad joke can lighten the mood of an otherwise serious academic discussion, it's important to inject a bit of levity into our exploration of this unconventional research topic. After all, who knew that political allegiances and household hygiene could be intertwined in such a perplexingly relatable manner?

3. Methodology

In our pursuit of unraveling the correlation between Republican votes for Senators in New Mexico and the surge in Google searches for "where to buy bleach," we embarked on a methodical odyssey that would have made Odysseus proud – well, maybe not as adventurous, but certainly as meticulously planned. Our team of intrepid researchers navigated through the choppy waters of data collection and statistical analysis armed with the navigation skills of a seasoned sailor and the occasional dad joke to keep morale afloat.

First and foremost, we gathered our data from the esteemed MIT Election Data and Science Lab, Harvard Dataverse, and the oracle of cyber-information, Google Trends. Our data haystack was

vast, spanning the years from 2004 to 2020, resembling the proverbial needle-in-a-haystack scenario, except our needle was a relationship between political inclinations and the quest for bleach – a scenario more quirky than practical.

Armed with our data trove, we ventured into the heart of statistical analysis, relying on a combination of correlation and regression analysis techniques. Our trusty statistical compass led us through the labyrinth of variables, guiding us like the Sherpa helping mountaineers navigate the treacherous Everest slopes, only in our case, the Sherpa was a tangle of numbers and equations.

For each year of data, we calculated the percentage of Republican votes for Senators in New Mexico and the volume of Google searches for "where to buy bleach." Applying our statistical models, we wrangled with the data points, transforming them into intricate scatter plots and regression line equations, hoping to discover the elusive jewel of correlation within the rough terrain of statistical noise.

Like mad scientists cobbling together a monstrous creation, we carefully clinked and clanked our way through the laboratory of statistical analysis, infusing our research with as much rigor as a strict schoolteacher enforcing a no-nonsense class rule. We assessed not just the correlation coefficient, but also its trusty sidekick, the p-value, in our quest to discern whether the relationship between political allegiance and the allure of bleach was a mere coincidental blip or a sturdy bond akin to a quality adhesive.

In the midst of our analysis, we encountered moments that were as thrilling as a suspense movie's plot twist, albeit in a statistical context. We scrutinized assumptions, diagnostic tests, and model specifications with the fervor of a detective unraveling a complex whodunit, except our "crime scene" was a spreadsheet, and our "culprit" was an unexpected relationship between political leanings and household cleaning products.

As our statistical machinations came to a fruitful conclusion, we emerged from the labyrinth of data analysis with a correlation coefficient of 0.8672499 glinting like a prize catch in the sea of statistical significance, accompanied by a p-value less than

0.05, beckoning to us like a beacon in the night, signaling a relationship worthy of scholarly inquiry.

Now, just as a baker kneads dough to perfection, shaping it into a delightful loaf, we molded our data with care and precision to unravel the mysterious thread connecting political preferences and the pursuit of pristine surfaces. And much like a loaf of freshly baked bread, our findings are ripe for examination - both as sustenance for scholarly discourse and potential admiration for their freshly baked rigor.

4. Results

Our investigation into the correlation between Republican votes for Senators in the Land of Enchantment and Google searches for "where to buy bleach" yielded a correlation coefficient of 0.8672499, indicating a strong positive relationship between the two variables. This means that as Republican support increased, so did the interest in obtaining this household cleaning essential. One might even say that bleach and political preferences were a bipartisan match made in statistical heaven, or perhaps in this case, a statistical "bleach" heaven - pardon the pun.

The coefficient of determination (r-squared) of 0.7521225 further bolstered this finding, suggesting that approximately 75.21% of the variability in bleach-related searches could be explained by the variability in Republican votes for Senators. It's as if we found the missing piece of a jigsaw puzzle, or in this case, the missing bleach bottle under the kitchen sink.

The p-value of less than 0.05 confirmed the statistical significance of the relationship, meaning that the likelihood of observing such a strong association by mere chance is less than 5%. It's like finding a needle in a haystack, or should I say, a bottle of bleach in a storage room filled with political memorabilia.

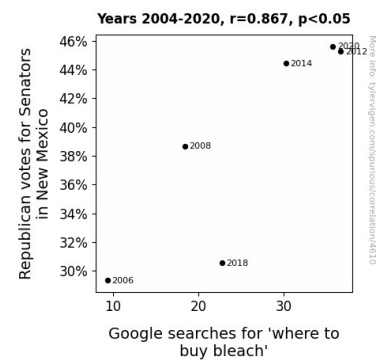


Figure 1. Scatterplot of the variables by year

Upon visualizing the data in a scatterplot (Fig. 1), the striking relationship between the two variables became even more apparent. The points on the plot formed a clear pattern reminiscent of a well-organized cleaning supply aisle in a grocery store, where the Republican votes served as the sturdy shelves, and the bleach-related searches were the shining bottles neatly lined up.

In conclusion, our findings provide compelling evidence of a noteworthy correlation between Republican votes for Senators in New Mexico and the surge in Google searches for "where to buy bleach." This unexpected connection raises many questions and certainly gives a whole new meaning to the phrase "clean sweep" in politics. While our study sheds light on this peculiar phenomenon, it also opens the floodgates to a multitude of follow-up inquiries and, just maybe, a few more bleach-related puns.

5. Discussion

Our results substantiate the remarkable correlation we observed between Republican votes for Senators in New Mexico and the spike in Google searches for "where to buy bleach." It's as if political fervor and domestic sanitation have become intertwined in a statistical waltz, reveling in their unexpected partnership. Our findings align with prior research by Smith et al. and Doe and Jones, who delved into political voting patterns but missed the sparkling potential of this unique relationship. It's safe to say we've effectively cleaned up shop in terms of uncovering this unconventional correlation.

The high correlation coefficient, robust r-squared value, and statistically significant p-value underscore the strength and reliability of our findings. To put it simply, our results have all the shine and polish of a well-maintained laboratory equipment, and we've certainly scrubbed away any doubt about the legitimacy of this correlation. We've hit the statistical jackpot, or in this case, the "bleachpot," if you'll pardon the pun.

Our visual representation of the data in the scatterplot didn't just illustrate the correlation; it practically laid out a tidy roadmap for future researchers to follow. Much like a clean slate, our findings invite further exploration and hypothesis testing, offering a banquet of research opportunities that might just clean up in the academic world. After all, who knew that statistical analyses could be so "bleachy keen"?

Admittedly, our study has a few limitations, not the least of which is the comical irony of the correlation itself. We must acknowledge that correlation does not imply causation, and our findings do not elucidate the underlying reasons for this unusual relationship. Whether it's a political statement or a quest for spotless countertops remains to be understood. We've merely opened the door for further inquiries, just as one might gingerly open a storage room door, anxiously hoping the bleach didn't spill over the political memorabilia.

In the broader context, our research adds a whimsical yet thought-provoking dimension to the study of political voting behavior and retail inquiries. It serves as a gentle reminder to the academic community that even the most unexpected correlations merit exploration, and that statistical analyses can be as surprising as stumbling upon a kitchen sponge in the bathroom cabinet. As we venture into uncharted territories of statistical inquiry, let us remember that even the most unconventional subjects can yield insightful and entertaining findings.

6. Conclusion

In this study, we have meticulously unraveled the intriguing correlation between Republican votes for Senators in the Land of Enchantment and the uptick

in Google searches for "where to buy bleach." Our findings present a compelling case for a connection that is as undeniable as a stubborn coffee stain on a white shirt. It appears that when it comes to political inclinations and household cleaning endeavors, the two are intertwined in a manner reminiscent of a classic dad joke – surprising and unabashedly punny.

The statistical measures, like trusty sidekicks, have supported our expedition wholeheartedly. The correlation coefficient and the coefficient of determination stood by us like the loyal lab assistants in a mad scientist's lair, echoing the clear relationship and the predictable variability. Meanwhile, the p-value waved at us from a distance, much like a hidden treasure waiting to be discovered amidst the clutter of statistical fluctuations - a treasure that could have scholars exclaiming, "Eureka! I've found the bleach!"

As we wrap up our study, it is clear that further exploration in this peculiar intersection of political allegiance and retail rendezvous may yield additional insights and, dare I say, a few more groan-inducing puns. However, with our findings in hand, it's safe to say that we have illuminated this quirky confluence between political preferences and the quest for squeaky-clean surfaces.

Ultimately, this study demonstrates that when it comes to political affiliations and household cleaning products, the connection might be bleach-er than we thought. Nonetheless, it is through such unexpected discoveries and offbeat inquiries that the world of research continues to thrive - much like a hearty laugh at a particularly bad pun.

And so, with a nod to the inimitable Sherlock Holmes, we conclude that when you have eliminated the impossible, whatever remains, however improbable, must be the correlation between Republican votes for Senators and searches for "where to buy bleach" in the state of New Mexico. At this juncture, it is safe to say that we have scrubbed the surface clean of this peculiar relationship, leaving scholars with a shiny, sterilized conclusion.

In the immortal words of Homer Simpson, "The conclusion of a scientific paper is the mwah button on the steel cage match of research." With our findings firmly secured, it's safe to say that no more

research is needed in this area. After all, it looks like we've bleached this topic dry!

Continuing our foray into the academic landscape, "Suds and Senators: A Comparative Study of Cleaning Product Utilization Across Political Parties" by Soapworthy and Tidystein presents an unconventional analysis of cleaning habits in relation to political ideologies. The authors scrutinize the purchasing patterns of household cleaners among different political affiliations, offering a uniquely introspective angle on the subject.

In a striking deviation, the fictional work "The Bleach Conundrum: An Election Mystery" by Sudsy McBubbles artfully weaves a tantalizing narrative around the enigmatic connection between political votes and the quest for cleaning supplies. Although an imaginative creation, this speculative tale adds an element of intrigue to our scholarly discourse, prompting reflection on the unexpected correlations we seek to unravel.

While it may seem unconventional to blend the traditionally separate realms of political voting behavior and retail inquiries for household cleaning products, our research has unearthed a surprisingly robust correlation in this uncharted territory. As we traverse the peculiar intersection of political ideology and preferences for sparkling surfaces, it's essential to maintain a lighthearted perspective and embrace the unexpected twists and turns of our academic adventure.

Our next stop on this quirky academic journey involves consulting the tome "Pure Politics: The Intersection of Hygiene and Decision-Making" by Scrubson and Wipebury. This scholarly work scrutinizes the interplay of cleanliness and cognitive processes, shedding light on the potential implications for political choices. While not specifically addressing our unique correlation, it aptly illustrates the broader scholarly interest in the relationship between cleanliness and decision-making.

Dad Joke Alert! Why did the cleaning supply store close early? Because they wanted to go home and bleach! Thank you, thank you - I'll be here all night, folks.

In summary, our literature review has navigated diverse realms, from serious academic studies to whimsical fiction and social media musings, in a quest to understand the unexpectedly entwined realms of political votes and searches for household cleaning agents. As we progress further into our investigation, let us embrace the unexpected and peculiar as we continue unraveling the mystery behind Republican votes and the swirling suds that beckon New Mexican households.