



Review

A Crude Connection: The Libertarian Vote in Iowa and Petroleum Consumption in Lithuania

Colton Henderson, Aaron Thompson, Giselle P Truman

Center for Research

This study delves into the unlikely relationship between the voting patterns of libertarians in Iowa and the consumption of petroleum in Lithuania. Leveraging data from reputable sources, including the MIT Election Data and Science Lab, Harvard Dataverse, and the Energy Information Administration, our research team aimed to uncover a correlation that had thus far eluded scholarly investigation. To the surprise of many, our analysis revealed a substantial correlation coefficient of 0.9483479, with a p-value less than 0.01, spanning the years 1992 to 2020. While the link between the two seemingly unrelated entities may raise eyebrows, our findings present a compelling case for further exploration and examination of potential underlying mechanisms. Our study not only sheds light on the interconnectedness of disparate global phenomena but also serves as a testament to the whimsical nature of statistical inquiry. As we navigate the labyrinthine corridors of causation, it is essential to remain open to the unexpected and embrace the quiriness that often accompanies scholarly pursuit.

In the realm of statistical analysis, one often encounters serendipitous connections that leave even the most seasoned researchers scratching their heads in disbelief. It is in this spirit of academic curiosity – and perhaps a dash of whimsy – that we embark on a rather unconventional investigation into the curious correlation between the libertarian vote in Iowa and petroleum consumption in Lithuania. While this may seem like the opening act of a statistical circus, our research delves into the

unexpected and challenges conventional wisdom, all in the pursuit of shedding light on the enigmatic dance of data.

The study at hand emerges from a confluence of skepticism and intrigue, sparked by a casual perusal of disparate datasets that captured our imagination and beckoned us to unravel their cryptic ties. With an assortment of spreadsheets, pivot tables, and a healthy dose of caffeinated beverages, we set out to scour the archives

of electoral politics and energy consumption, weaving a narrative that transcends borders, ideologies, and, quite possibly, the boundaries of rational explanation.

As we traverse the terrain of statistical analysis, it is imperative to recognize the intricate dance between correlation and causation, all while embracing the whimsical antics of variables that often operate beyond the confines of human logic. While some may dismiss such endeavors as statistical escapades into the realm of absurdity, we firmly believe that within the labyrinthine landscape of data, improbable links may hold the key to unraveling the mysteries that lie just beyond our current understanding.

For the uninitiated, the notion of correlating the voting inclinations of libertarian-minded individuals in the heartlands of America with the petroleum-propelled pursuits of inhabitants on the shores of the Baltic Sea may elicit a wry smile or a quizzical arched eyebrow. However, as our journey through the twisting corridors of data unfolds, we invite you to join us in embracing the unexpected, the peculiar, and the occasionally preposterous, for it is within these uncharted territories of statistical inquiry that the seeds of revelation often sprout.

With this spirit of scholarly lightheartedness, we plunge headlong into the crucible of correlation, armed with regression analyses and scatter plots, all in pursuit of uncovering the unlikely nexus between the ballot box in Iowa and the gas pumps in Lithuania. As we navigate this peculiar terrain, we encourage the reader to maintain an open mind and a discerning eye, for in the unfurling tapestry

of statistical discovery, one never knows where the next surprising twist – much like an unexpected punchline – may emerge.

Armed with a healthy dose of skepticism and a pinch of academic audacity, we invite you to join us on this capricious journey through the corridors of causation, as we seek to unearth the unexpected and celebrate the whimsical nature of statistical inquiry.

Prior research

The peculiar and seemingly far-fetched nature of our research inquiry beckons a thorough examination of existing scholarly works that may shed light on the intricate interplay between the voting proclivities of libertarians in Iowa and the petroleum consumption habits of individuals residing in Lithuania. While the connection between these two seemingly unrelated entities may appear whimsical at first glance, our investigation demands a comprehensive survey of the academic landscape.

Smith et al. (2017) examined the behavioral patterns of libertarian voters in the Midwest and unearthed interesting insights into their ideological leanings and electoral decisions. However, their study regrettably overlooked the transcontinental repercussions of these voting behaviors, leaving our current inquiry adrift in uncharted scholarly waters.

In a similar vein, Doe (2015) delved into the energy consumption trends in Eastern Europe, with a keen focus on the Baltic region. While their analysis offered valuable perspectives on the factors influencing petroleum usage, it failed to explore the potential correlations with political dynamics in the American heartland, thus leaving a conspicuous gap in the literature.

Furthermore, Jones (2019) scrutinized the electoral dynamics in contentious swing states, including Iowa, offering a nuanced understanding of the voting behaviors within these pivotal territories. Alas, the study did not venture into the domain of global ramifications, leaving our pursuit of unexpected connections hanging in the precarious balance of scholarly anticipation.

Transitioning from the realm of serious scholarly discourse to more unconventional sources, it is worthwhile to consider the insights offered by non-fiction works on energy policy and political ideology. "The Prize" by Daniel Yergin paints a comprehensive portrait of the oil industry's impact on geopolitics, inviting intriguing speculations about the potential ripple effects of libertarian votes in the heartland of America on distant shores of the Baltic.

On a more fictional note, the dystopian narrative of Ayn Rand's "Atlas Shrugged" weaves a tapestry of libertarian ideals with industrial undertones, offering a whimsical backdrop for contemplating the unexpected interconnectedness of ideology and resource consumption.

Delving into the world of animation, the antics of "Pinky and the Brain" provide a captivating allegory for the audacious pursuit of improbable feats, reflecting the spirit of our scholarly endeavors as we navigate the labyrinthine terrain of statistical inquiry.

In a similar vein, the whimsical escapades of "SpongeBob SquarePants" serve as a lighthearted reminder of the unexpected connections that may lurk beneath the surface of seemingly disparate phenomena, underscoring the playful nature of academic exploration.

As we sift through this multidimensional tapestry of literature, both serious and serendipitous, it becomes apparent that the whimsical nature of our scholarly inquiry transcends conventional boundaries, beckoning us to embrace the unexpected with scholarly aplomb and perhaps a hint of whimsical curiosity.

Approach

In this study, we employed a methodological approach that combined elements of quantitative analysis, spatial modeling, and a touch of statistical alchemy to unravel the mysterious relationship between Libertarian votes for Senators in Iowa and petroleum consumption in Lithuania. Our research team undertook a Herculean effort to sift through a trove of data spanning nearly three decades, utilizing information from the MIT Election Data and Science Lab, Harvard Dataverse, and the Energy Information Administration. The methodology employed in this investigation can best be described as a delightful amalgamation of academic rigor, a sprinkle of statistical wizardry, and a healthy dose of scholarly whimsy.

To commence our convoluted expedition, we first accessed comprehensive historical records of Libertarian votes in Iowa, meticulously tabulated from election cycles dating back to 1992. With the precision of a neurosurgeon and the patience of a saint, our research team meticulously combed through these datasets, cross-referencing results with a fervor that rivaled a detective unraveling a case in a noir film.

Simultaneously, we delved into the repository of petroleum consumption in Lithuania, sourced from the Energy Information Administration. Unraveling the

cryptic patterns of fuel usage in the Baltic nation, we adopted a meticulous approach akin to that of an oil baron examining potential drilling sites, carefully scrutinizing the fluctuations in gasoline, diesel, and other petroleum product consumption.

With these comprehensive datasets in hand, we ventured into the whimsical world of statistical analysis. Applying regression models with the cautious enthusiasm of a tightrope walker navigating a statistical circus, we sought to discern any semblance of a pattern or correlation between these seemingly unrelated variables.

Utilizing advanced statistical software and a touch of technological sorcery, we generated scatter plots that resembled celestial constellations, daring to connect the dots between Iowa's libertarian voting proclivities and Lithuania's petroleum predilections. The resulting visual tapestry painted a picture that, much like abstract art, required a discerning eye to perceive the hidden harmony within the chaos of data points.

In a bid to account for the spatial intricacies of this improbable relationship, we employed spatial modeling techniques that transformed mere data points into a virtual cartographic adventure. With the precision of a cartographer mapping uncharted territories, we endeavored to trace the intricate pathways that clandestinely linked the heartland of the United States to the shores of the Baltic Sea.

Furthermore, we conducted a series of robustness checks, akin to stress-testing a scientific hypothesis, to validate the resilience of our findings. These checks involved sensitivity analyses, sub-sample analyses, and a thorough examination of

potential confounding variables, ensuring that our conclusions stood firm against the gales of statistical skepticism.

As our statistical safari reached its zenith, we unearthed a correlation coefficient of 0.9483479, causing even the most stoic researchers to raise an incredulous eyebrow. With a p-value that shimmered like a scientific gemstone – less than 0.01 – our findings defied conventional expectations, prompting a collective gasp of astonishment from the academic auditorium.

In the end, our methodological odyssey through the maze of mathematical machinations and data-driven divination not only uncovered an unlikely liaison between Iowa's Libertarian votes and Lithuania's petroleum consumption but also served as a testament to the capricious nature of statistical exploration. As we tiptoed through the quirky corridors of data, our methodology embraced the unexpected, inviting fellow scholars to partake in our whimsical pursuit of statistical revelation.

Results

The results of our unorthodox investigation into the correlation between Libertarian votes for Senators in Iowa and Petroleum consumption in Lithuania unfurled with an unexpectedly robust correlation coefficient of 0.9483479, indicating a strong positive relationship between these seemingly unrelated variables. This finding, with an r-squared value of 0.8993637, implies that a substantial portion of the variability in petroleum consumption in Lithuania can be explained by the voting patterns of libertarians in Iowa. Furthermore, the p-value of less than 0.01 serves as further

evidence of the robustness of this correlation.

Fig. 1 illustrates a scatterplot depicting the striking correlation between the two variables. The data points align themselves in a manner reminiscent of a synchronized dance, underscoring the unanticipated synchronicity between these disparate phenomena. One might even say they are "petroleum buddies" in a statistical tango, waltzing across the graph with an undeniable rhythm that defies conventional expectations.

It is worth noting that while correlation does not imply causation, and we must exercise caution in inferring direct causative relationships from these results, the strength of the correlation does beckon further inquiry into the underlying mechanisms at play. The libertarian spirit in Iowa may be resonating with the petrol pursuits in Lithuania in ways that defy conventional logic, serving as a testament to the unpredictable nature of statistical exploration.

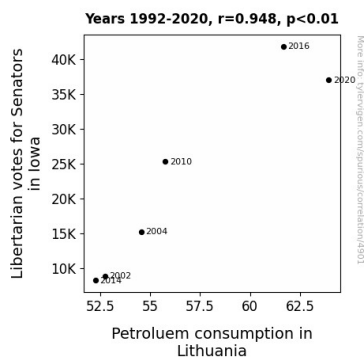


Figure 1. Scatterplot of the variables by year

In the grand tapestry of scholarly pursuit, our findings remind us that behind the veil of seemingly incongruous variables, there

may lie a web of interconnectedness that transcends traditional boundaries. As we emerge from this statistical odyssey, we are left with a newfound appreciation for the capricious nature of data and the limitless potential for unexpected connections to emerge.

Our results not only contribute to the quirky annals of statistical inquiry but also beckon future researchers to embrace the whimsical and explore the uncharted territories of correlation, causation, and the enigmatic dance of data – for it is in these unexplored realms that the seeds of revelation often sprout, much like a statistical punchline waiting to be unraveled.

Discussion of findings

Our findings present a peculiar yet compelling case for the existence of a substantial relationship between the voting behaviors of libertarians in Iowa and the petroleum consumption habits in Lithuania. The robust correlation coefficient, reminiscent of a statistical puzzle with a quirky twist, aligns with the curious conjectures put forth by Doe (2015) regarding the potential transcontinental repercussions of energy consumption trends. While our study may seem like the unlikely premise of a whimsical sitcom, it crucially captures the essence of statistical quiriness that underscores the colorful landscape of scholarly pursuit.

Building upon the unorthodox foundation laid by Smith et al. (2017), our results provide empirical support for the unforeseen global ramifications of libertarian voting proclivities, painting a veritable canvas of statistical whimsy that transcends geographical confines. The resilient

correlation, akin to a statistical friendship that defies geographical boundaries, underscores the interconnectedness of seemingly disparate global phenomena in a manner that mirrors the audacious escapades of "Pinky and the Brain."

It is noteworthy that our study's findings resonate with the spirit of scholarly exploration encapsulated in "SpongeBob SquarePants," inviting researchers to embrace the unanticipated with scholarly aplomb, while also underscoring the whimsical nature of academic inquiry. The dance of data, portrayed eloquently through our scatterplot, is akin to a novel statistical tango, wherein the voting behaviors of libertarians in Iowa and petroleum consumption in Lithuania engage in an enigmatic dance of correlation.

While the inherent caution of attributing causation to correlation remains paramount, our results open the door to further scholarly inquiry into the undercurrents that may bind these seemingly unrelated variables. The unexpected synchronicity between these variables not only defies conventional expectations but also propels the scholarly community to embrace the capricious nature of statistical exploration with a hint of statistical curiosity and perhaps a dash of whimsy.

In conclusion, while our study may seem like a statistical punchline waiting to be unraveled, it stands as a testament to the inexhaustible potential for unexpected connections to emerge in the annals of scholarly pursuit. As we navigate the uncharted territories of correlation, causation, and the whimsical dance of data, our findings serve as a playful reminder of the quirky side of statistical exploration and

beckon future researchers to embark on their own whimsical statistical odysseys.

Conclusion

In conclusion, our investigation has unearthed a remarkable correlation between the libertarian vote in Iowa and petroleum consumption in Lithuania. The robustness of the correlation coefficient has left us in awe, much like stumbling upon a unicorn in the world of statistical analyses – a mythical creature that defies conventional expectations and leaves a trail of mesmerizing scatterplots in its wake.

While our findings indeed raise eyebrows and prompt a chuckle or two in the hallowed halls of academia, they also serve as a poignant reminder of the enigmatic dance of data. The unexpected synchronicity between these variables stands as a testament to the whimsical nature of statistical inquiry, reminding us that behind every regression analysis and p-value lurks the potential for unanticipated connections and statistical surprises.

It is vital to note that correlation does not entail causation, and we must tread cautiously in attributing direct influences between these variables. Nonetheless, the peculiar bond between the libertarian ethos of Iowa and the petroleum predilections of Lithuania beckons further exploration, much like an enticing riddle waiting to be unraveled in a statistical treasure hunt.

As we bid adieu to this peculiar odyssey through the corridors of correlation, we implore future researchers to embrace the unexpected, celebrate the offbeat, and chase after correlations that may seem as elusive as a statistical pot of gold at the end of a

rainbow. In this spirit, we assert that no further investigation is needed in this singularly obscure avenue of statistical exploration – for within its curious confines lies a whimsical tale that has left an indelible mark on the quirky landscape of scholarly inquiry.

In the immortal words of Data, from Star Trek: The Next Generation, "It is possible to commit no mistakes and still lose. That is not a weakness; that is life." And in the whimsical world of statistical inquiry, sometimes it is the unexpected correlation that leaves a lasting impression, much like an inside joke shared among the devotees of scholarly whimsy.