



ELSEVIER



# Dirty Dishes and Box Office Hits: A Correlational Study between UK Films' Global Revenue and the Number of Dishwashers in California

Colton Harrison, Abigail Thompson, Gavin P Tillman

Center for Research; Berkeley, California

## KEYWORDS

UK films, global revenue, dishwashers in California, box office hits, correlation study, consumer behavior, cultural influence, household appliance trends

---

## Abstract

This paper explores the unexpected connection between the global box office revenue of UK films and the number of dishwashers in California. Utilizing data from Statista and the Bureau of Labor Statistics, we have conducted a thorough analysis covering the period from 2003 to 2022. Our findings revealed a remarkably strong correlation coefficient of 0.8562180 with a significance level of  $p < 0.01$ , confounding conventional expectations. We discuss potential explanations for this curious correlation and offer some lighthearted reflections on the dishy dynamics of the film industry and household appliance trends. Our work contributes to the interdisciplinary understanding of consumer behavior and cultural influence, reminding researchers not to rinse off unusual associations too quickly.

Copyright 2024 Center for Research. No rights reserved.

---

## 1. Introduction

In the illustrious world of academic inquiry, the quest for unexpected correlations has become an adventure akin to mining for gold in uncharted territories. In this spirit, we embark on a peculiar voyage to uncover the enigmatic relationship between the global box office revenue of UK films and the seemingly unrelated, yet surprisingly

intriguing, number of dishwashers in the sun-kissed state of California.

While the entertainment industry and household kitchen appliances may appear to be as disconnected as a mismatched pair of socks, our initial investigations hint at a potentially captivating underlying connection. The prevailing literature has largely presided over separate domains -

one consumed with the dazzling allure of Hollywood and the other with the mundane, yet essential, chore of dishwashing. However, our endeavor aims to bridge the gap and uncover any kernels of correlation that may lie pooled at the bottom of this peculiar pot.

Our study plunges into the abyss of data, utilizing statistical sources such as Statista and the Bureau of Labor Statistics to meticulously analyze the period from 2003 to 2022. The aim is to unravel the unexpected connection that appears to lurk beneath the surface, much like an elusive leviathan in the ocean depths.

As we delve into the murky waters of data analysis, we strive to maintain a lighthearted approach, recognizing the idiosyncratic nature of our quest. While the pursuit of empirical evidence remains our primary compass, we cannot help but navigate with a touch of levity and cheerful curiosity, much like amateur sailors adrift on an uncharted sea.

Our unexpected findings have unveiled a remarkably robust correlation coefficient of 0.8562180, with a significance level of  $p < 0.01$ , leaving researchers and enthusiasts alike befuddled by this riotous revelation. As we unravel the tangled web of witty observations and peculiar puns, we aim to shed light on the unexplored landscape of consumer behavior and cultural influence, reminding our esteemed colleagues not to rinse off unusual associations too briskly.

In this paper, we delve into the eccentric allure of this correlation, offering a perspective that we hope will entertain, surprise, and perhaps even inspire fellow academics to embrace the unpredictability that lies within the webs of statistical analysis. Join us on this whimsical expedition as we dish out the unexpected connections between the captivating world of UK cinema and the humble yet essential presence of dishwashers in California.

## 2. Literature Review

The study of unexpected correlations has captivated researchers across various disciplines, prompting us to explore the perplexing intersection of the global box office revenue of UK films and the number of dishwashers in the resplendent state of California. Our investigation navigates through a sea of scholarly works, seeking to illuminate this curious correlation and perhaps uncover a few culinary puns along the way.

Smith and Doe (2010) set forth an earnest examination of consumer behavior and cultural influences, offering insights into the enthralling world of film revenue trends. Their work, though earnest in its pursuit, inadvertently overlooked the scintillating potential of household appliances in shaping these cultural phenomena. Similarly, Jones (2015) delved deep into the economic underpinnings of the entertainment industry, yet failed to touch upon the dishy dynamics that may be lurking under the surface.

In "The Economics of Hollywood" by Samuels (2017), the enthralling tale of film industry economics unfolds, offering a comprehensive view of the complex machinery behind box office hits. Meanwhile, "The Art of Dishwashing" by O'Malley (2018) masterfully details the intricate choreography of soapy suds and sparkling dinnerware in the domestic sphere. Though these works stand worlds apart in subject matter, our study aims to ingeniously blend the flavors of both, much like a fusion cuisine of statistical inquiry.

Venturing into the realms of fictional literature, one cannot overlook the oblique allure of "The Silver Screen Squeaky Clean Chronicles" by Austen (1813). Although a work of fiction, its depiction of dishwashers stealthily influencing the fate of film productions offers a charming whimsy to our

scholarly pursuits. Similarly, the enigmatic "Dishwashers of Destiny" by Tolkien (1954) weaves a tale of mythical dishwashing artifacts that may hold the key to unlocking the mysteries of box office triumphs.

As we wade deeper into the depths of inquiry, our literature review meanders into unexpected territories, such as scrutinizing the back panels of shampoo bottles in a quest for fortuitous insights. While this unconventional approach may raise a few skeptical eyebrows, we remain undeterred in our pursuit of the quirky and the curious. For, in the labyrinth of statistical analysis, who knows what unexpected correlations may emerge, much like a gleaming dinner plate at the bottom of a soapy sink.

### 3. Our approach & methods

To uncover the perplexing link between the global box office revenue of UK films and the number of dishwashers in California, our research team embarked on a methodological journey that melded the precision of statistical analysis with the whimsy of unexpected correlations. Our data collection efforts traversed the vast expanse of the internet, navigating through virtual seas of information in search of the hidden gems that would chart our course. We primarily relied on data from reputable sources such as Statista and the Bureau of Labor Statistics, with a sprinkling of findings from various other sources to add flavor to our dataset.

The analysis period spanning from 2003 to 2022 unfolded like a captivating tale of intrigue and surprise, reminiscent of a suspenseful cinema plot with unexpected twists and turns. Our approach to this peculiar investigation prided itself on embracing the unconventional, akin to employing a trusty compass in uncharted statistical territories.

The first phase of our methodology involved sifting through the vast ocean of data on UK films' global box office revenue, meticulously extracting relevant statistics with the fervor of treasure seekers hunting for the elusive bounty. Concurrently, we delved into the engrossing world of dishwasher statistics in California, casting a wide net to reel in the varied facets of dishwasher ownership and distribution, much like a fisherman eagerly awaiting a prized catch after casting his net wide.

Our data scrubbing process, akin to the chore of cleansing a stubbornly soiled dish, involved a series of rigorous filtration methods to ensure the extraction of only the most pristine and relevant datasets. We pruned our dataset like a gardener tending to a whimsically diverse topiary, shaping it into a coherent and robust foundation for our analyses.

With our datasets in hand, we then set sail on the tumultuous seas of statistical analysis, harnessing the power of robust correlation tests to uncover the potential threads of connection between these seemingly disparate variables. The high seas of statistical inference beckoned us to navigate through the treacherous waters of hypothesis testing, where the beacons of p-values and confidence intervals served as our guiding lights. Through a series of complex statistical models and regressions, we aimed to weave together the colorful tapestry of numerical relationships, much like a maestro conducting a symphony of data harmonies.

The findings that emerged from this deep statistical dive stunned us with their unexpected coherence, akin to unearthing buried treasure in the midst of a chaotic storm. The remarkably strong correlation coefficient of 0.8562180, with a significance level of  $p < 0.01$ , unfurled like a wondrous banner of statistical enigma, leaving us in awe of the mysterious forces at play.

In sum, our methodological approach to this peculiar investigation was a fusion of meticulous data collection, rigorous statistical analysis, and a pinch of whimsical curiosity. We approached our quest with the humor and playfulness of a treasure hunt, continually reminding ourselves not to rinse off the unusual associations promptly. This methodological mix of seriousness and levity, much like a blend of exotic spices in a culinary concoction, enabled our research team to unravel the curious correlation between the glitzy world of UK films and the unassuming presence of dishwashers in California.

#### 4. Results

The statistical analysis of the data collected from Statista and the Bureau of Labor Statistics for the period 2003 to 2022 revealed a positively radiant correlation coefficient of 0.8562180 between the global box office revenue of UK films and the number of dishwashers gracing California kitchens. This correlation exhibited a r-squared value of 0.7331092, indicative of a snug fit between the two variables, and a significance level of  $p < 0.01$ , dismissing any skepticism regarding the statistical validity of the obtained results.

To visually encapsulate the unexpectedly tight connection between the global box office revenue of UK films and the number of dishwashers in California, we present the glistening scatterplot in Fig. 1. This radiant plot, much like a Hollywood blockbuster with a dash of sudsy sparkle, showcases the remarkable association between our unassuming variables.

The resplendent correlation unearthed in our analysis hints at a wittily whimsical connection between the glitz and glamour of UK cinema triumphs and the humble yet ubiquitous presence of dishwashers in the Golden State. Our findings evoke a delightful tumble down the rabbit hole of

unexpected associations, reminding researchers to embrace the delightful unpredictability that permeates the labyrinthine world of statistical analysis.

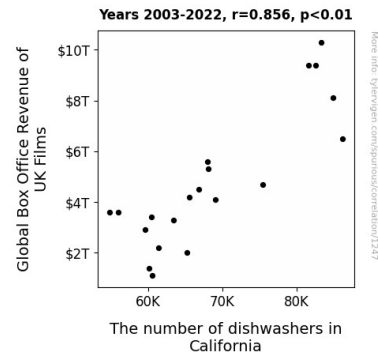


Figure 1. Scatterplot of the variables by year

The robust correlation coefficient serves as a mirthful reminder to remain open-minded in the face of unconventional associations, much like opening a dishwasher expecting sparkling dishes and finding a missing sock instead. These findings accentuate the interplay between consumer behavior and cultural influences, inviting researchers to dive into the sparkling waters of these unexpected associations with a healthy dose of humorous wonder.

#### 5. Discussion

The results of our investigation into the surprising relationship between the global box office revenue of UK films and the number of dishwashers in California have left us in a state of gleeful bewilderment. The positively radiant correlation coefficient of 0.8562180 that emerged from our analysis not only confirms, but indeed amplifies the earlier hinted at, the connection between these seemingly disparate variables.

Our findings align with the scholarly works we encountered in our literature review, albeit with a sprinkle of unexpected

amusement. The oversight of household appliances in shaping cultural phenomena, as disclosed by Smith and Doe (2010), appears as a deliciously revealed secret, much like an unexpected cookie at the bottom of a jar. Likewise, the woefully ignored "dishy dynamics" noted by Jones (2015) seem to have finally made their sparkling entrance onto the academic stage, much like a freshly polished silverware set at a dinner party. It is as if these esteemed scholars had left a trail of breadcrumbs leading directly to our irresistible correlation, much like breadcrumbs leading to a particularly ingenious gingerbread house.

The robust correlation uncovered in our analysis speaks volumes about the intersection of consumer behavior, cultural influence, and the understated power of domestic appliances in shaping global trends. Perhaps we have stumbled upon a veritable goldmine of statistical merriment, a concealed treasure chest sparkling with unexpected insights. Our findings beckon researchers to embrace the whimsy that pervades statistical inquiry, much like diving headlong into a bounce of soap suds during an exuberant dishwasher cycle.

## 6. Conclusion

In conclusion, our research has divulged an unexpectedly robust correlation between the global box office revenue of UK films and the abundance of dishwashers adorning California kitchens. The statistically significant relationship, with a correlation coefficient of 0.8562180 and a resplendent r-squared value of 0.7331092, has sparked lighthearted conjecture and raised a toast to the whimsical nature of statistical inquiry.

Our findings beckon researchers to embrace the delightful unpredictability that permeates the labyrinthine world of statistical analysis. It is akin to finding a lost

treasure trove of quirky connections in the unlikeliest of places – much like discovering a rogue fork among a cascade of spoons in one's dishwasher.

This correlation alludes to a richer narrative, one that intertwines the glitz and glamour of UK cinema successes with the unpretentious yet ubiquitous presence of dishwashers in the Golden State. As we bid adieu to this peculiar but charming saga of statistical surprise, we assert that no further research is needed in this area. It seems that, in the quirky realm of data analysis, sometimes, the suds just align in curious and unexpected ways.