

# How Businesses are Influencing the Relationship between the Weather and Consumer Demand

Laura Hershey<sup>1</sup>

<sup>1</sup>Affiliation not available

April 17, 2023



# How Businesses are Influencing the Relationship between the Weather and Consumer Demand

LAURA HERSHEY

READ REVIEWS

WRITE A REVIEW

CORRESPONDENCE:

[laura.hershey@meteoprotect.com](mailto:laura.hershey@meteoprotect.com)

DATE RECEIVED:

June 06, 2016

DOI:

10.15200/winn.146521.13799

ARCHIVED:

June 06, 2016

CITATION:

Laura Hershey, How Businesses are Influencing the Relationship between the Weather and Consumer Demand, *The Winnower* 3:e146521.13799, 2016, DOI: [10.15200/winn.146521.13799](https://doi.org/10.15200/winn.146521.13799)

© Hershey This article is distributed under the terms of the [Creative Commons Attribution 4.0 International License](https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and redistribution in any medium, provided that the original author and source are credited.



***When it comes to weather affecting consumer behaviour and purchase decisions, it has long been known that weather has an impact on consumer demand. The food we eat, clothes we wear, and how, where and how much we buy has all been scientifically proven to be influenced by the weather, it being second only to the economy in being the biggest single influencer on consumer behaviour.***

Indeed, every day people make purchasing decisions based on the weather, from buying ice cream, sandals and swimsuits in the summer, hot soups and snow tyres in the winter, and less of beer and bottled water as autumn approaches. In turn, the seasonal cycle of weather purchases are accounted for by supply chain managers in stocking store rooms and giving discounts to clear out product before the seasonal event- or the season itself- leaves stockpiles of unsellable wares in their hands.

But what if everything we have known to be true about how the weather affects consumer behaviour and our ability to control this relationship was wrong? What if the seemingly uni-directional,

unmanipulatable relationship between the weather and consumer behaviour was now being found to be being turned on its head? Specifically, what if a business could influence the relationship between the weather and consumers to its advantage?

On the face of it, this sounds like something out of a sci-fi tale, like the fictional X-Men character Storm's psionic ability to control everything from ocean currents to electromagnetic fields. Or perhaps a reference to the days of the mythological weather deities of Jupiter, Thor, or Zeus. Moreover, it has some rather frightening ramifications for the c-suite, as gone would be the days of businesses blaming profit losses on the weather.

Of course, we've seen rudimentary versions of such weather risk management techniques: consumers have been prodded out of their living rooms and into storerooms under even the most unfavourable weather condition by discounts and sales promotions since the dawn of the modern economy.

And, more recently, these promotions have become more cutting-edge, with businesses taking advantage of advances in weather data technology, weather sensitivity modeling, and new index weather hedging tools to create weather-related sales promotions. In this way, if a certain weather event occurs in a given period, consumer will receive a full or partial reimbursement on purchases made during the sales period, with retailers themselves protected by reinsurance treaties underwritten by weather risk management specialists such as Meteo Protect. Thus, an automobile parts retailer will stock those aforementioned snow tyres, even if the meteorologists are calling for a mild winter<sup>[1]</sup>See [weatherandeconomics.com/2016/05/30/its-not-gambling-if-you-never-lose](http://weatherandeconomics.com/2016/05/30/its-not-gambling-if-you-never-lose).

But taking this one step further, and drawing now from advances in digital signage, remote weather sensing, and available real-time feedback between advertising mediums and weather stations, today we have the brave new world of an inter-directional relationship between the weather and consumers. Say goodbye to everything from advertising promotions and restaurant menus being set in advance, static, or fixed. Welcome to the age of digital signage and interactive advertising platforms which draw from dozens of smart components, including the weather, but also what's trending on the news and social media.

Take McDonald's, for instance, which this past year started installing digital menu boards in restaurants around the world following a successful testing period in Canada. These menus make food recommendations based on the weather. If it's cold outside, the menu might promote hot soups and heartier meals, whereas on a hot and sunny day, refreshing beverages and ice creams might be highlighted. Moving images further engage customers and draw their attention to these promoted items. McDonald's has already reported success with these digital menus, stating that customers are spending more on every transaction in restaurants where the new menu boards were tested.<sup>[2]</sup>[uk.businessinsider.com/mcdonalds-menus-will-recommend-food-based-on-the-weather-2015-1](http://uk.businessinsider.com/mcdonalds-menus-will-recommend-food-based-on-the-weather-2015-1)

Similarly, Mark's, a Canadian apparel and footwear retailer, recently won accolades for their innovation in brand activation, coming up with a novel way to meet the business objective of clearing out holiday inventory in anticipation of spring, in the face of a price-point war across industry, and amidst clearance clutter. Mark's used digital signage on transit shelters in areas in proximity to their flagship stores to drive consumer demand by linking their advertisements to live weather feeds. As the temperature dropped, so did Mark's discounts on winter apparel. They effectively customized their prices and advertising to fluctuations in temperatures, and influenced consumer behaviour by responding to the weather and consumer demand in real-time. The campaign was an immense success: Mark's reported up to a 21% increase in sales year-over-year for the 3-week campaign period of this digital weather-driven marketing platform.<sup>[3]</sup>[promoawards.strategyonline.ca/Winner/Winner/2015/?w=marks-readytowinter](http://promoawards.strategyonline.ca/Winner/Winner/2015/?w=marks-readytowinter)

It's not surprising that out of Canada we should see such innovation in mitigating the effects of the weather, but what businesses may find surprising is how quickly they can be left in the cold if they don't

decide to make their relationship with the weather a priority in 2016.

That's precisely why Meteo Protect, experts in weather risk financial management, have partnered with industry leaders such as MeteoGroup, a world leading weather data provider, in order to create products that leverage the data of Meteo Group with the bespoke hedging solutions and marketing and consulting services of Meteo Protect. Thanks to the scale and capability of Meteo Protect's SAP cloud data services platform, it is able to provide clients significant competitive advantage as they link their business and sensor data with weather and other pertinent information in real-time.

This may or may not be as alluring as teaming up with Professor Xavier's team, but a manager who employs cutting-edge weather risk management techniques to increase profits and control losses in the face of any weather variable is bound to be considered a superhero at the office.

#### References

1. ↑ See [weatherandconomics.com/2016/05/30/its-not-gambling-if-you-never-lose](http://weatherandconomics.com/2016/05/30/its-not-gambling-if-you-never-lose)
2. ↑ [uk.businessinsider.com/mcdonalds-menus-will-recommend-food-based-on-the-weather-2015-1](http://uk.businessinsider.com/mcdonalds-menus-will-recommend-food-based-on-the-weather-2015-1)
3. ↑ [promoawards.strategyonline.ca/Winners/Winner/2015/?w=marks-readytowinter](http://promoawards.strategyonline.ca/Winners/Winner/2015/?w=marks-readytowinter)