

Climate and Supply Chains: Port of Los Angeles

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Supply chains are a part of everyone's life, yet are invisible to most people. Climate is also something that we experience everyday and it impacts every aspect of our lives. My goal for this research is to understand how climate events impact the efficiency of the supply chain. This is important to understand because as climate events become more extreme, our supply chains will suffer impacts that will affect efficiency and revenue for many companies. In order to analyze the relationship, the study focused on the Port of Los Angeles and monthly climate data from that area, specifically temperature, precipitation and storms. The data from the Port of Los Angeles documented the volume of incoming containers every month from 2009 to 2016. In the analysis, I converted data to anomalies and conducted tests such as the pearson correlation, t-test and p-value between the data sets to understand if there is a relationship between them. In conclusion, there was a statistically significant relationship between storms and the volume of containers. As a result, storms impact the port's efficiency. This was not the case with temperature and precipitation.