

** Flight Influences: What does it take to make a smooth landing?*

Links to Tableau Public Dashboards:

*https://public.tableau.com/views/FlightInfluences/FightorFlight?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

*https://public.tableau.com/views/FlightInfluences/CalendarEffectsMonthlyDaily?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

*https://public.tableau.com/views/FlightInfluences/CancellationsbyAirline?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

*https://public.tableau.com/views/FlightInfluences/WeatherDelaysbyAirline?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

While using the Kaggle Dataset from the DOT 2015 Flight information for US Carriers. I was able to deep dive into some factors that were affecting airline travel. I utilized a few different visualizations methods to convey a visual reference to the data information presented. The first worksheet is a continuous lines chart which includes slider scale filters for Month (1-12) & (1-7) Days. There is also a filter for 14 US Domestic Airlines. The initial data presented gives you a interactive view that includes Averages across all major factors discussed such as weather delays, cancellations. There is a steady trend of flight changes during the latter end of the year between August and December. The most concerning factor affecting airline travel was Cancellations with only a slight effect experienced from Weather influences. The second dashboard visualizes the in depth view that US carriers have experienced resulting in Cancellations overall. The tree map diagram effectively displays concentrations via color intensity to convey which airline experienced the greatest output of Cancellations which is South West Airlines with a whopping 818 in 2015. The least amount of cancellations is also displayed as Hawaiian Airlines with 8. The third and final visualization expresses the effects weather has on departure delays. This columned bar chart displays the total count of departures total, with a signature count of weather influenced delays. In order to further quantify the data presented regarding weather influenced flights delays each airline is given a percentage reflected as well. The chart reveals an overwhelming count of weather delays experienced by South West airlines overall. Final theory based upon the data presented is the Southwest Airlines experienced severe cancellations, and weather influenced delays. While other airlines were affected by seasonal fluctuations (holidays, weekend travel) , these nuances well inconvenient didn't appear to be as extreme as the Southwest passenger was experiencing.

***Sources**

Author: Sterdivant, Ebony

Title: Flight Influences: Calendar Effects Monthly/Daily

Accessed: June 27, 2023

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Flight Influences: Cancellations by Airline

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Flight Influences: Weather Delays by Airline

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