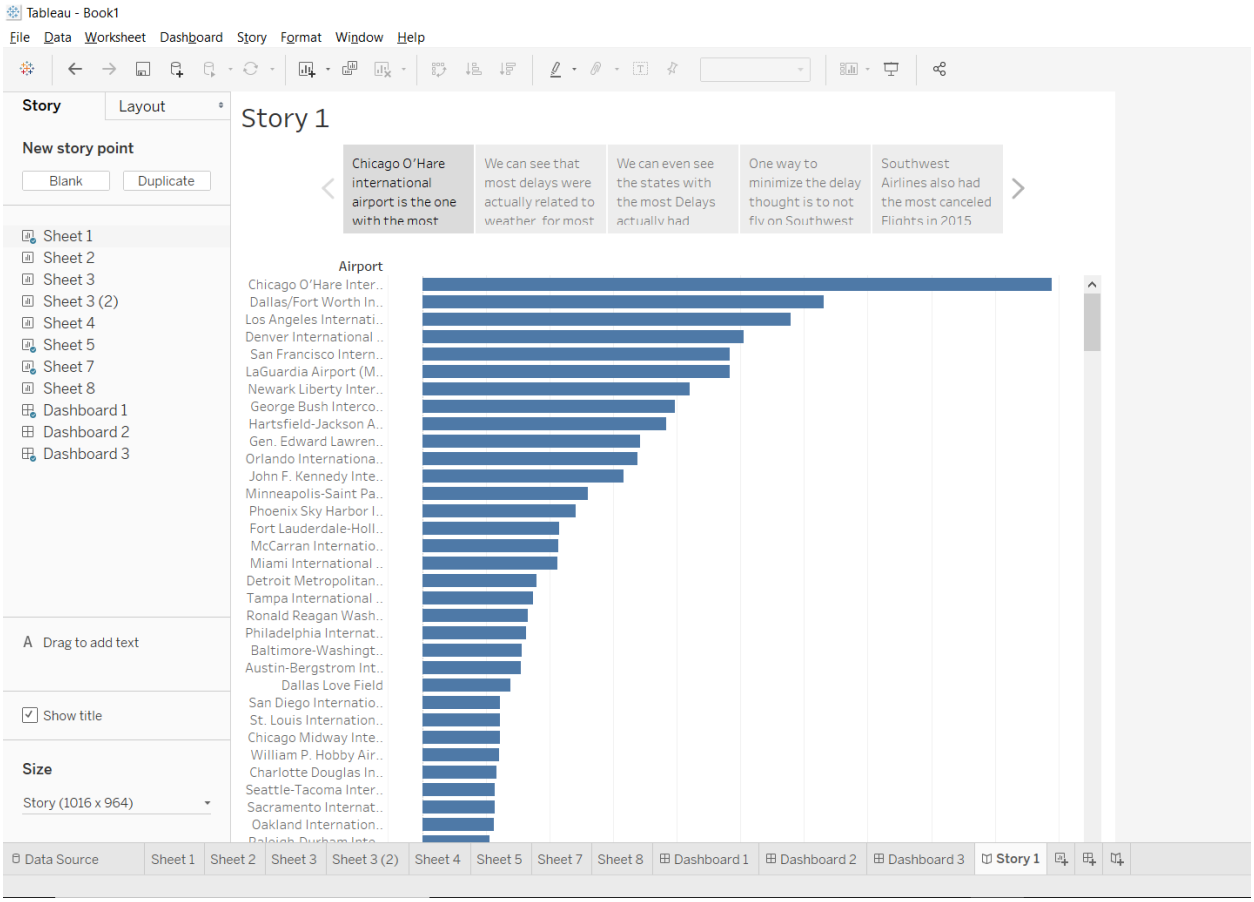
Which airlines or airports have the worst delays?

Insight – 1



- **Summary:**
  - Upon analyzing the data, we can see that Chicago O'Hare international airport is the one with the most Delays across all airports.
  - This is a plot vs Arrival Delays.

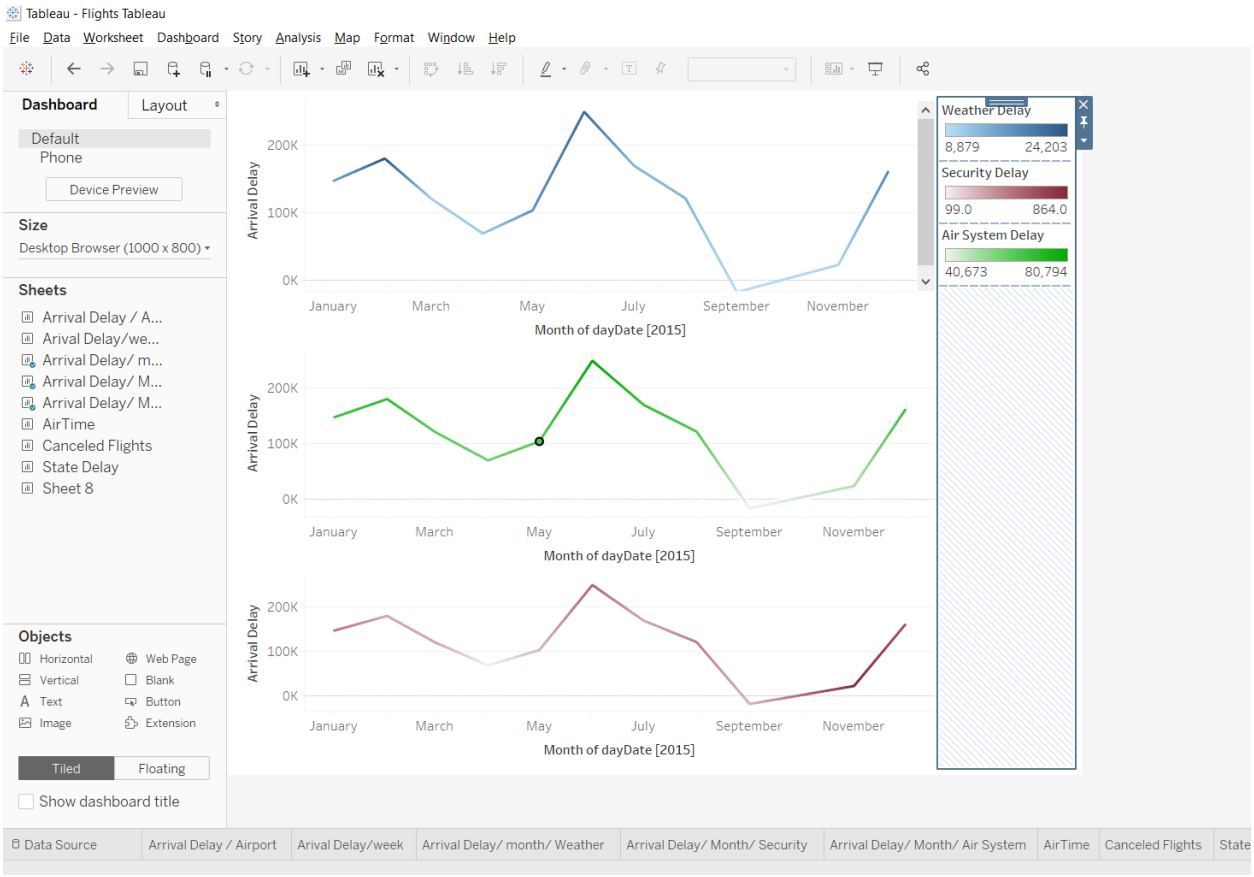
- **Design Comment:**
  - The Design was constructed using a side bar plot, as that it shows the information better, and also it was arranged for most to lowest, to help indications be easier.

- **Resources**: Only resource used for this analysis was Kaggle for understanding the data.

What causes delays?

Insight – 2

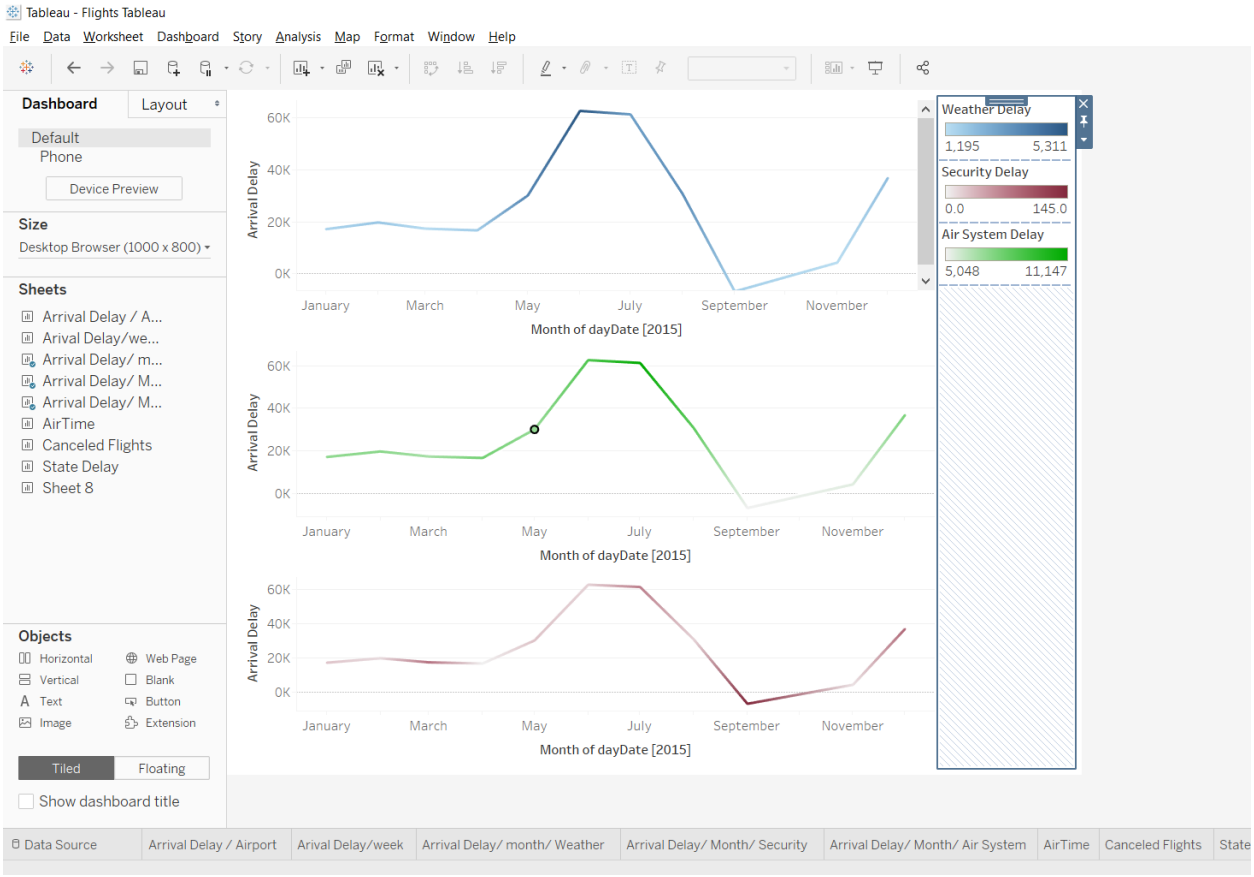
Before Filter:



- Summary:
    - We can also see that most delays were related to weather, Air System issues for most of the year. While security was a major contributor only by the end of the year.
    - These are 3 graphs with arrival Delay vs month of the year, while taking in consideration the effects of Weather in the first graph, Air System in the middle, and Security as the latter.

    - Month of DayDate is a field that I created to join all the month year and day together.

After Filter:



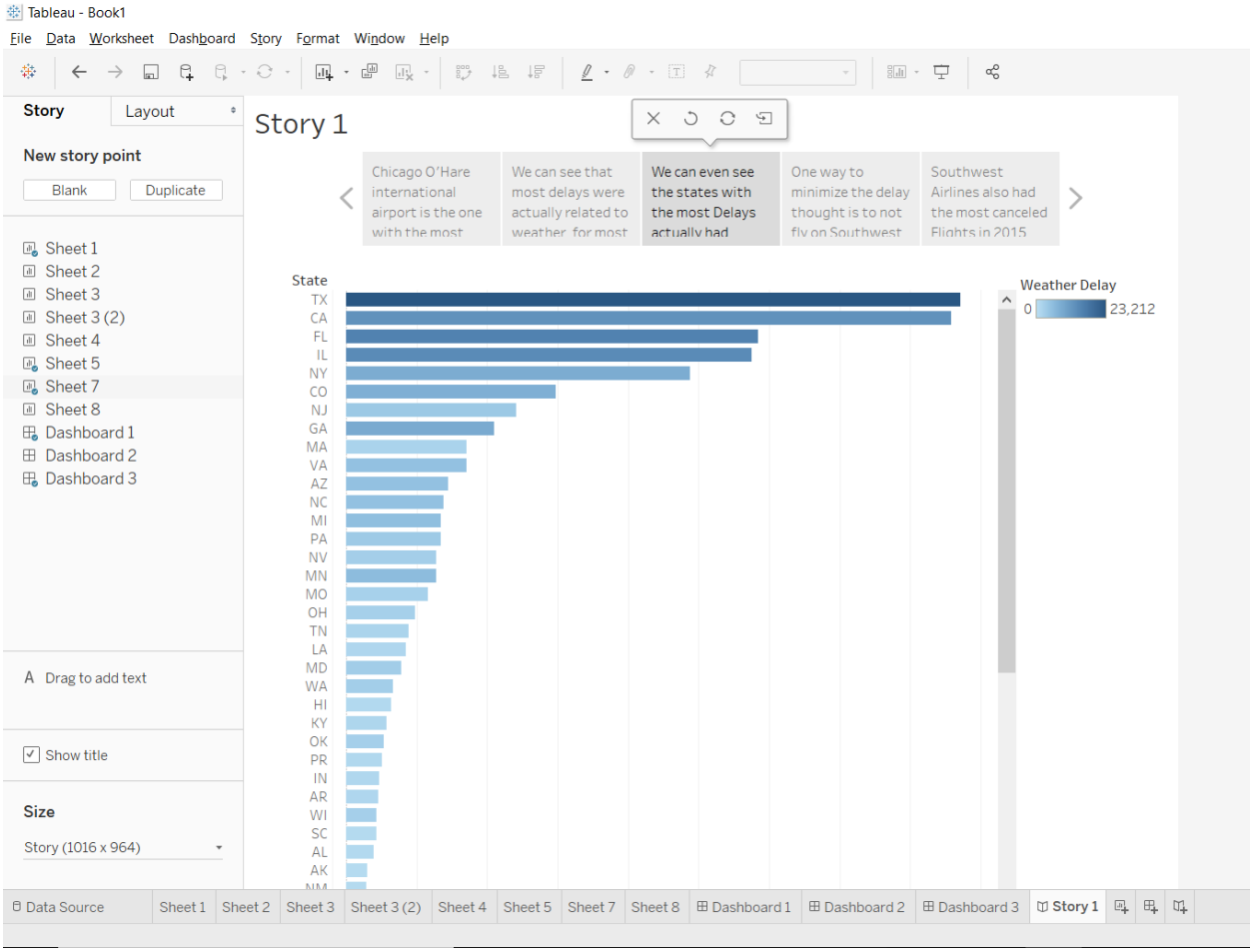
- **Summary:**
  - Those 3 graphs are the same except with the filter for airlines added, to check the how did these conditions affect the most delayed airlines, which is “Southwest Airlines Co.”.
  - We can conclude from this graph that June and July, most delays for “Southwest Airlines Co.” were caused by weather and Air system issues. Security issues, were a major thing compared to the main graph, was a major thing for “Southwest Airlines”

- **Design Comment:**

  - The Design was constructed using a line graph, to help show changes across time, each one design within the dashboard was colored differently for easier distinguishes.

- **Resources**: Only resource used for this analysis was Kaggle for understanding the data.

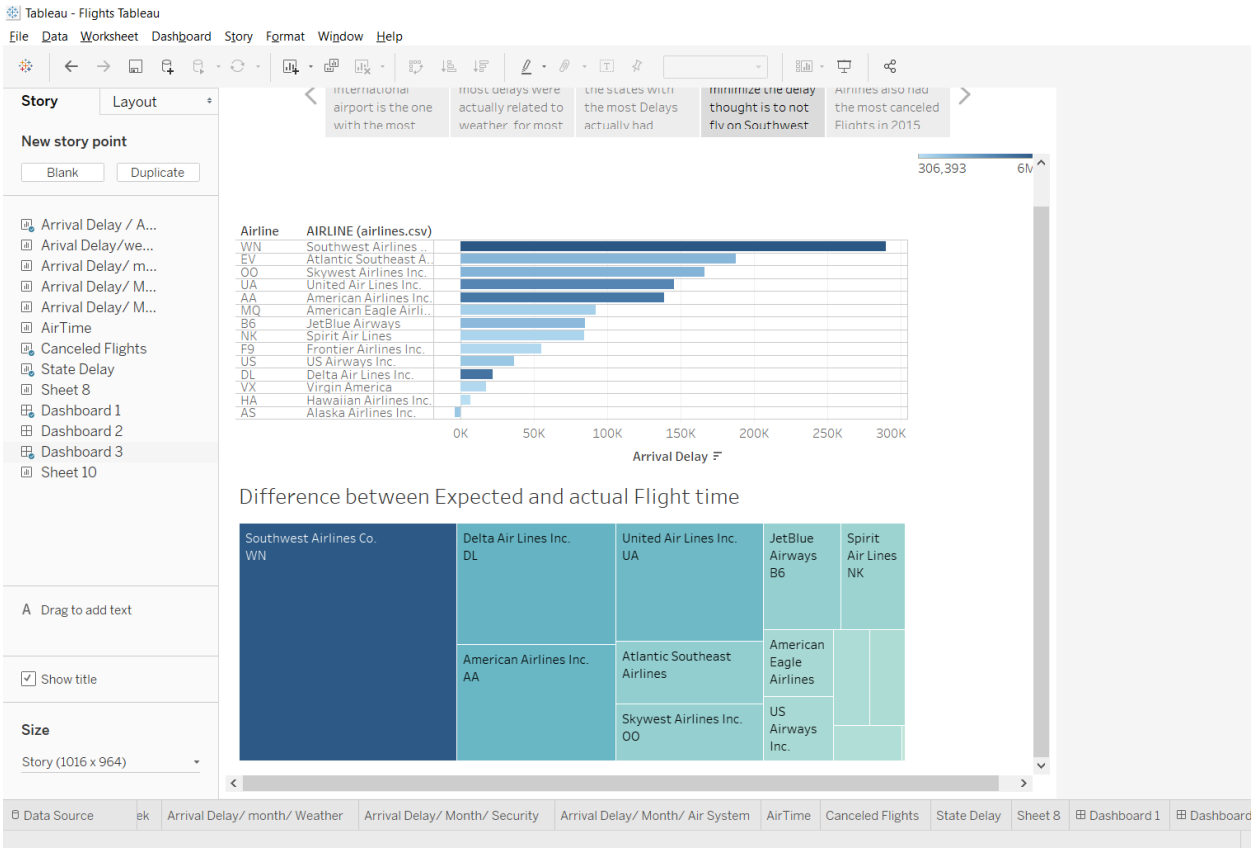
Insight – 3



- **Summary**
  - We can even see the states with the most Delays had Weather as a major contributor as well, in delays.
  - That is a graph of Arrival Delay vs States, taking into consideration Weather Delay.

- **Design Comment:**
  - The Design was constructed using a side bar lines, as it shows the results better, and a color filter was used to help indicate how weather affected these states.

- **Resources**: Only resource used for this analysis was Kaggle for understanding the data.



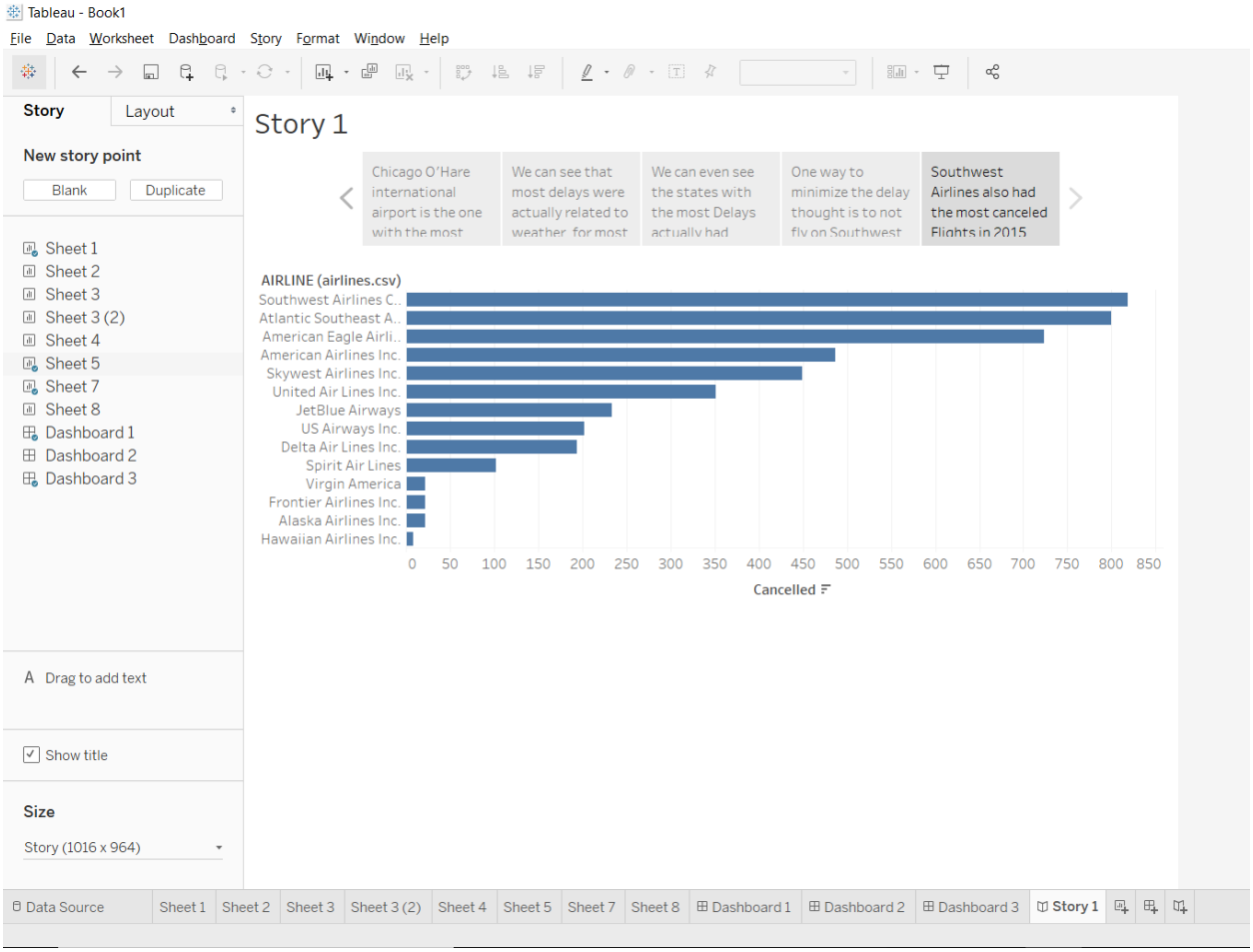
- **Summary:**
  - One way to minimize the delay thought is to not fly on Southwest Airlines. Specially knowing that Delta Air Lines had almost as much of airtime, Yet the Delay is minimal.
  - These are 2 graphs of Airlines vs Arrival Delays taking airtime delay into consideration, and the second is Airline vs Fully Delay time.
  - Fully Delay time is a field created by checking the [scheduled – actual] of both departure and arrival.

- **Design Comment:**
  - The Design was constructed using a side bar lines, as it shows the results better, especially when ordered, and a color filter was used to help indicate how weather affected these states, for the first graph. For the second graph a Treemap was used to help show who had the greatest portion.

- **Resources**: Only resource used for this analysis was Kaggle for understanding the data.

Which Airlines has the most Canceled Flights

Insight – 4



- **Summary**
  - Not only that but also, Southwest Airlines also had the most canceled Flights in 2015
  - This is graph of Airlines vs Cancelled Flights.

- **Design Comment:**
  - The Design was constructed using a side bar plot, as that it shows the information better, and also it was arranged for most to lowest, to help indications be easier.

- **Resources**: Only resource used for this analysis was Kaggle for understanding the data.