

# **Flight Delays and Cancellations**

# Which Airport Had The Worst Arrival & Departure Delays?

## SUMMARY:

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The butterfly chart shows that Chicago O'Hare International Airport had the worst delays in both arrival (98,900) and departure (98,900).

While Gillette-Campbell County Airport arrival flights were earlier than scheduled (471 earlier), same with Range Regional Airport departure flights (175 earlier).

## DESIGN EXPLANATION:

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The butterfly chart seems like the best option to represent the two measures with the airport dimension in common. Also choose to color positive values in blue, and the negatives in orange (suitable for color blindness).

[VISUALIZATION LINK](#)

# Which State had the Most Cancellations and what are the causes?

## SUMMARY:

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This dashboard provide us with the flight cancellation per state and the causes. California had the most cancelled flights (33,331), while American Samoa had only (2). Most of the cancellations were due to the weather, then national air system and finally airline/carrier.

## DESIGN EXPLANATION:

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You can see each state's rank and total cancelled flights by hovering above the map, and the number of cancelled flights per cause on the bar chart. States have been colored based on their rank (the lighter the highest).

[VISUALIZATION LINK](#)

# What Time of The Year Flight Get Cancelled The Most?

## SUMMARY:

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In most states, weather lead to cancellation especially at February (782), and at September most of the east states, CO, NV and CA hit the lowest record at (29), after that the cancellation start to increase again.

## DESIGN EXPLANATION:

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Line chart is the best option to represent cancellation changes through time, you can also see the states where those cancellations happened by hovering above the line.

[VISUALIZATION LINK](#)

# References

## VISUALIZATION 1:

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[Tableau Butterfly Chart Tutorial](#)