**Overview**

The Bureau of Transportation Statistics (BTS) collects, manages and shares transportation related statistical data. This data analysis focused on major commercial airlines on-time performance. The data analysis will include a population-based answer as well as a sample-based answer.

*Question of Interest:  
What time of the day and day of the week is best for avoiding flight delays?*

There is 25 years of data available to use as the population, however, the population was redefined to include only the last 3 years (2011-2013). Airline operations have changed a great deal from 1992, thus using 1992 data to identify the best day and time to avoid flight delays today is irrelevant.

**Findings**

***Population-based Approach***

***Obstacles and Solutions***

* Time Index and Intervals
  + Can’t graph
* Collecting Data
  + ‘not enough memory’, R session expires

***Sample-based Approach***

***Obstacles and Solutions***

***Comparison***