

BTS Airline On Time Performance Data – Service Analysis

Download BTS AOTP data for December for YEAR 1 (e.g. 2015) and for YEAR 2 (e.g. 2016) for YOUR AIRPORT.

For YEAR 1

- 1) Generate a list of airports serviced FROM your airport
- 2) For each airport serviced list the stage-length (i.e. distance)
- 3) For each airport serviced list the total number of flights in this time period
- 4) For each airport serviced identify if service is Daily (i.e. 7 days a week), Weekday Daily (i.e. Mon- Fri), Non-Daily Service
- 5) For each airport serviced list the total number of seats
 - a. Use the BTS T-100 data-base “Air Carriers: T-100 Domestic Segment (All Carriers) to match Origin, Destination and Airline Code to get an estimate of the seats per flight. Use the “Seats” field. Divide this field by the number of departures to get the average seats per flight on the city pair.

Link to T100 DB: https://www.transtats.bts.gov/Fields.asp?Table_ID=293

Direct Link to download:
https://www.transtats.bts.gov/DL_SelectFields.asp?Table_ID=311&DB_Short_Name=Air%20Carriers
- 6) For each airport serviced calculate the average seats per flight.
- 7) For each airport serviced calculate the ASMs from TO that airport
- 8) Calculate TOTAL FLIGHTS, TOTAL SEATS, and TOTAL ASMs
- 9) How many Airlines provide service FROM your airport? List those airlines

The table should look like this.

Origin Airport: _____

Period of Study: _____

Airport Serviced	Stage-length	Total Flights in Time Period	Type of Service (D, WD, ND)	Total Seats	Avg Seats per Flight	ASMs
		TOTAL		TOTAL		TOTAL

Complete the same 5 steps for YEAR 2 (create the same table)

Compare results for YEAR 1 and YEAR 2.

- 1) Change in TOTAL FLIGHTS\
- 2) Change in TOTAL SEATS
- 3) Change in TOTAL ASMs
- 4) What caused the changes
 - a. New Airline/Airline stopped service? Which airline and which airports added/dropped
 - b. Existing Airline changes airports served? Which airports were added/dropped?
 - c. Existing Airline changed frequency of service (i.e. Daily to Weekday Daily)
 - d. Existing Airline changed aircraft type (i.e. seats)
 - e. Other observations