



# FedEx Aircraft Utilization Index

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## Terms

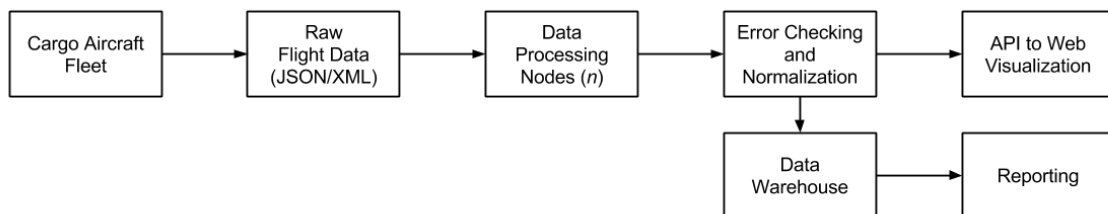
- **GT:** Gross tonnage
- **Utilization:** Measure of aircraft productivity, calculated by dividing aircraft block hours by the number of aircraft days assigned to service on air carrier routes. This index represents aircraft utilization in minutes rather than hours.
- **Frame:** Refers to an individual aircraft.
- **MTOW:** Maximum Takeoff Weight

## Summary

The GFC FedEx Aircraft Utilization index analyzes flight data for FedEx cargo aircraft. Using these data, an average utilization per frame is calculated and trended. This index is updated on a daily basis. Utilization is also broken down by aircraft type and also averaged over the entire fleet. This provides real time insight on the current aircraft utilization for FedEx and in turn air freight cargo volumes.

## Data and Methods

The raw data for calculating this index flows through the following path:



Data for this index is based off of the current cargo fleet for FedEx. Fleet data is updated dynamically when the index is calculated, providing the most up to date aircraft list for analysis. Below is an example of the aircraft in the FedEx fleet used for this index:

<b>Aircraft Type</b>	<b>MTOW</b>	<b>Active Frames</b>
A300-600	170,500 kg	68
A310	164,000 kg	13
ATR 42/72	15,550 kg - 23,000 kg	34
757-200	57,840 kg	100
767-300	186,880 kg	30
777F	347,800 kg	27
DC-10	259,459 kg	42
MD-11	286,000 kg	56


Excluded from this index are smaller aircraft such as the Cessna 208 Caravan, as flight data from these aircraft are often incomplete and unreliable. Additionally, data from some aircraft types may be incomplete as flight data is not available for all regions where these aircraft operate. Once these aircraft have been determined, the registration numbers are then used to quantify individual aircraft activity. Flight history for each aircraft is analyzed and averaged over a period of time. Duration data is then normalized into an average value of minutes/day/frame.

**Total Flight Duration (Averaged) / Active Frames = Total FedEx Aircraft Utilization**

Data integrity is checked during the import process of raw data, consequently periodically aircraft data might be inaccurate or missing. In these cases, data is excluded from the index and further calculations, and the best previous datapoint is used. These data are then saved in a data warehouse and exported through an external API interface for trending and analysis.

## Data Fields

Position	Name	Format/Units	Description
1	Date	YYYY/MM/DD	Date
2	A300	Duration (Seconds)	Total average daily duration for A300 aircraft
3	A310	Duration (Seconds)	Total average daily duration for A310 aircraft
4	ATR42/72	Duration (Seconds)	Total average daily duration for ATR42/72 aircraft
5	757	Duration (Seconds)	Total average daily duration for 757 aircraft
6	767	Duration (Seconds)	Total average daily duration for 767 aircraft
7	777	Duration (Seconds)	Total average daily duration for 777 aircraft
8	DC-10	Duration (Seconds)	Total average daily duration for DC-10 aircraft
9	MD-11	Duration (Seconds)	Total average daily duration for MD-11 aircraft
10	Total Aircraft Average Duration	Duration (Seconds)	Total average daily duration across all aircraft types



11	Total Aircraft Average Duration	Duration (Minutes)	Total average daily duration across all aircraft types
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