



# Cirium Global Fuel Consumption Forecast

Optimize operations and supply chain with precise fuel use and consumption data

## Evolving market dynamics:

As the industry continues to grow, so does the demand for aviation fuel. To meet this ever-increasing demand, aviation fuel suppliers need to have a clear understanding of historic and current trends in fuel consumption to accurately forecast future needs.

## Cirium's approach:

Via an easy-to-use Global Fuel Consumption Forecast dashboard, Cirium provides the industry with the broadest and deepest aviation data analytics that enables aviation fuel providers to predict fuel consumption and demand. Build better fuel demand models with confidence using the most accurate estimated fuel burn calculations with a +/- 1% accuracy rate based on sample comparisons to proprietary airline data when applying assumed average passenger and cargo load factor.

## Aviation fuel providers can now:

- Gain historical insights to help calculate and forecast fuel consumption for a more precise estimate.
- Filter consumption calculations by various aspects such as region, country, airport, aircraft type for easy access and reporting.
- Generate quick visualizations of consumption patterns and variances to easily inform management decisions or communicate with other stakeholders.
- Identify changes in consumption patterns in days versus months, enabling faster decision making and responsive adjustments to long-term demand forecasts.

The Global Fuel Consumption Forecast leverages the following Cirium's industry-leading data sets:



### Cirium Fight (Status) Data

Gain insights to historically flight (status) data including disruptions that may impact future fuel consumption.

Over 600 data sources  
with near real-time  
updates.

## Fuel Burn and Emissions Data

Predict fuel burn and emissions of flights both historically and forecasted by leveraging Cirium's machine learning and historical data.

Improved accuracy  
using flight time  
versus distance-based  
estimates.

## Better data for intelligent decisions

- ### Fuel Consumption (kg) by Departure Airport

Grouping	F	W	T	Th	F	S	Sa	Su	Total
US01 Los Angeles Heathrow	171,150	168,510	461,790	448,530	303,120	300,960	300,960	438,120	2,434,080
US02 Dallas Fort Worth	127,200	126,450	342,150	327,810	240,450	240,450	240,450	342,150	1,841,460
US03 New York Heathrow	184,110	182,730	504,210	487,710	315,750	315,750	315,750	458,250	2,585,010
US04 John F. Kennedy	108,910	107,910	303,060	288,330	216,150	216,150	216,150	316,770	1,668,570
US05 Frankfurt Atlanta	171,150	170,270	461,790	448,530	303,120	300,960	300,960	438,120	2,434,080
US06 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US07 Chicago de Gaulle	184,110	182,730	504,210	487,710	315,750	315,750	315,750	458,250	2,585,010
US08 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US09 Chicago de Gaulle	184,110	182,730	504,210	487,710	315,750	315,750	315,750	458,250	2,585,010
US10 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US11 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US12 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US13 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US14 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US15 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US16 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US17 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US18 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US19 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US20 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US21 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US22 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US23 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US24 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US25 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US26 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US27 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US28 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515,250	2,929,560
US29 Istanbul Atlanta	208,910	207,510	573,150	555,210	363,750	363,750	363,750	515	

Cirium is committed to helping develop the future of aviation management.  
Find out more at [cirium.com/aviation-fuel-demand](https://cirium.com/aviation-fuel-demand)