



<http://www.icao.int/sustainability/Pages/Air-Traffic-Monitor.aspx>

GLOBAL KEY FIGURES

OCT 2019
(versus OCT 2018)

RPK ▲ +3.4% **ASK** ▲ +2.2% **FTK** ▼ -3.5% **LF**: 82.0% ▲ +0.1 pt

OUTLOOK* - NOV 2019
(versus NOV 2018)

ASK ▲ +2.4% * Source OAG

PASSENGER TRAFFIC

Revenue Passenger-Kilometres - RPK

World passenger traffic grew by +3.4% YoY in October 2019, -0.4 percentage point lower than the growth in the previous month. All regions, except for Africa and the Middle East, posted a slowdown with Asia Pacific experiencing the most significant deceleration. The Middle East accelerated traffic growth notably and became the fastest growing region. Domestic traffic demand eased at the worldwide level with softening in the top domestic markets such as China and India.



(Source: ICAO, IATA, OAG)

CAPACITY

Available Seat-Kilometres - ASK

Capacity worldwide increased by +2.2% YoY in October 2019, -1.1 percentage point lower than the growth in the previous month (+3.3%).

According to the airline schedules, capacity expansion is expected to be around +2.4% in November 2019.

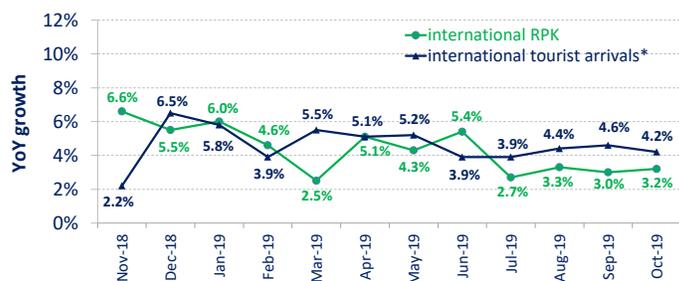


(Source: ICAO, IATA, OAG)

International Traffic vs. Tourist Arrivals

International passenger traffic grew by +3.2% YoY in October 2019, +0.2 percentage point higher than the growth in the previous month. Three regions recorded acceleration in traffic growth with the strongest pick-up in the Middle East. Latin America/Caribbean posted the weakest performance and became the only region with negative growth.

The growth of international tourist arrivals* remained relatively stable.



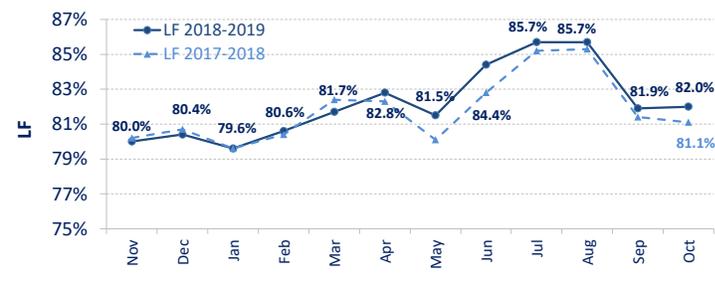
*UNWTO Definition

(Source: IATA, UNWTO)

Load Factor - LF

The passenger Load Factor reached 82.0% in October 2019, +0.1 percentage point higher than the previous month.

As traffic growth outpaced the capacity expansion, the October LF was +0.9 percentage point higher compared to the rate in the same period of 2018.

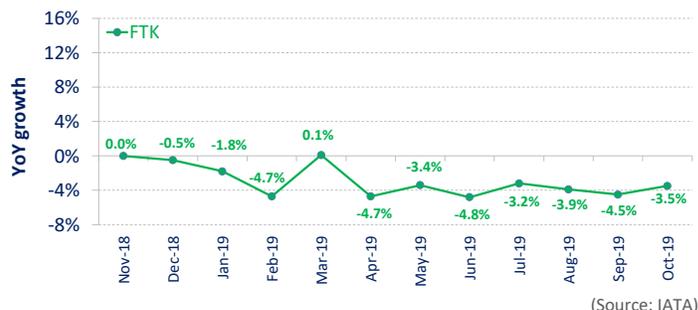


(Source: IATA)

FREIGHT TRAFFIC

Freight Tonne-Kilometres - FTK

World freight traffic reported a decline of -3.5% YoY in October 2019, +1.0 percentage point higher than the growth in the previous month. Albeit with marginal improvement in certain regions, freight traffic demand remained weak worldwide with consecutive negative growth over the last seven months. This weakness reflected the sluggish global trade development. Africa continued to be the only region growing positively and increased the momentum with a surge of double-digit growth. For the sixth month this year, the Middle East was the weakest performing region, followed by Asia/Pacific and Latin America/Caribbean.



(Source: IATA)

» Continued from page 1

TOP 15 AIRPORTS (Ranked by aircraft departures, passengers and volume of freight)

OCT 2019: +1.5%, +1.4%, and -3.5% YoY in terms of aircraft departures, passengers and freight for the Top 15

OCT 19

Airports (ranking by number of departures)	Departures	YoY	Airports (ranking by number of passengers)	Passengers*	YoY	Airports (ranking by tonnes of freight)	Freight**	YoY
Chicago IL, US (ORD)	40,770	↑ 0.8%	Atlanta GA, US (ATL)	4,756,935	↑ 2.7%	Hong Kong, CN (HKG)	419,000	↓ -5.6%
Atlanta GA, US (ATL)	38,246	↑ 0.9%	Beijing, CN (PEK)	4,322,685	↓ -3.5%	Memphis TN, US (MEM)	377,215	↓ -5.0%
Dallas/Fort Worth TX, US (DFW)	31,095	↑ 10.4%	Chicago IL, US (ORD)	3,786,446	↑ 0.6%	Shanghai, CN (PVG)	321,523	↑ 2.4%
Los Angeles CA, US (LAX)	28,861	↓ -2.7%	Los Angeles CA, US (LAX)	3,597,418	↓ -0.9%	Incheon, KR (ICN)	239,755	↓ -5.8%
Denver CO, US (DEN)	27,885	↑ 7.4%	Dubai, AE (DXB)	3,571,031	↑ 1.9%	Anchorage AK, US (ANC)	239,254	↓ -4.1%
Charlotte NC, US (CLT)	25,333	↑ 3.7%	Tokyo, JP (HND)	3,550,644	↓ -7.7%	Louisville KY, US (SDF)	237,936	↑ 12.3%
Beijing, CN (PEK)	25,096	↓ -5.9%	London, GB (LHR)	3,496,138	↑ 0.5%	Dubai, AE (DXB)	220,216	↓ -7.3%
Amsterdam, NL (AMS)	23,095	↓ -1.1%	Paris, FR (CDG)	3,322,845	↑ 4.2%	Doha, QA (DOH)	196,868	↓ -0.4%
Frankfurt, DE (FRA)	22,969	↓ -1.3%	Frankfurt, DE (FRA)	3,216,688	↑ 1.0%	Taipei, CN (TPE)	195,040	↓ -3.3%
Paris, FR (CDG)	22,197	↑ 3.0%	Amsterdam, NL (AMS)	3,215,722	↑ 0.3%	Los Angeles CA, US (LAX)	173,255	↓ -8.2%
Shanghai, CN (PVG)	21,555	↓ -1.1%	Dallas/Fort Worth TX, US (DFW)	3,188,776	↑ 11.1%	Miami FL, US (MIA)	172,789	↓ -2.0%
Las Vegas NV, US (LAS)	21,304	↑ 7.7%	Guangzhou, CN (CAN)	3,173,712	↑ 3.3%	Chicago IL, US (ORD)	170,696	↓ -0.8%
New Delhi, IN (DEL)	21,150	↑ 1.9%	Shanghai, CN (PVG)	3,141,775	↓ -0.8%	Singapore, SG (SIN)	169,700	↓ -10.6%
Guangzhou, CN (CAN)	21,002	↑ 0.9%	Istanbul, TR (IST)	3,098,615	↑ 8.4%	Beijing, CN (PEK)	169,145	↓ -5.4%
London, GB (LHR)	20,710	↓ -0.6%	Denver CO, US (DEN)	3,038,330	↑ 6.5%	Frankfurt, DE (FRA)	168,414	↓ -8.2%

Note: Total scheduled and non-scheduled services

(Source: ACI)

In terms of **aircraft departures**, the Top 15 airports reported a growth of +1.5% YoY. Nine out of the Top 15 airports posted YoY increases. **Chicago** ranked 1st with marginal growth of +0.8%. The strongest growth in operations was recorded by **Dallas/Fort Worth** at +10.4%, followed by **Las Vegas** at +7.7%.

In terms of **passengers**, the Top 15 airports reported a growth of +1.4% YoY. Eleven out of the Top 15 airports posted YoY increases. **Atlanta** remained at 1st with a growth of +2.7%, followed by **Beijing**. **Dallas/Fort Worth** recorded the most significant growth at +11.1%. Decline was observed in major hubs in Asia/Pacific with -7.7% and -3.5% fall in **Tokyo** and **Beijing**, respectively.

In terms of **freight**, the Top 15 airports reported a decline of -3.5% YoY. All the Top 15 airports posted declines except for **Louisville** (+12.3%) and **Shanghai** (+2.4%). The former continued to record the highest growth supported by its UPS hub position. The most significant decrease was posted by **Singapore** at -10.6%, followed by both **Frankfurt** and **Los Angeles** at -8.2%.

TOP 15 AIRLINE GROUPS (Ranked by RPK)

OCT 2019: +4.3% YoY in terms of RPK for the Top 15

OCT 19

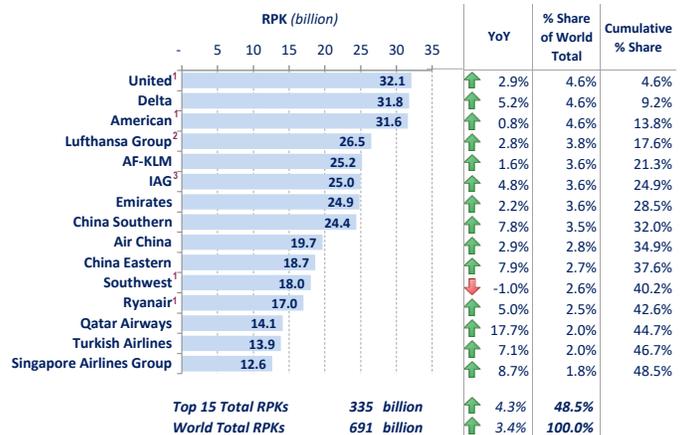
In terms of RPK, the Top 15 airline groups accounted for 48.5% of the world's total RPK in October 2019 and grew by +4.3% YoY. This growth was +0.9 percentage point higher than the world's average on scheduled services. Fourteen out of the Top 15 airline groups posted YoY growth.

United ranked 1st with moderate growth of +2.9%, followed closely by **Delta** which grew at +5.2%. **American** grew merely at +0.8% and dropped by 1 position to the 3rd. **Southwest** went up one position to 11th, albeit with a decline of -1.0%.

Emirates dropped one position to 7th with a growth of +2.2%. **Qatar Airways** recorded the fastest growth among the Top 15 with an increase of +17.7% while remained at 13th.

Lufthansa and **AF-KLM** maintained their positions at 4th and 5th while growing modestly at +2.8% and +1.6%, respectively. **IAG** grew at +4.8% and went up one position to 6th. **Ryanair** posted a relatively slower pace compared to the previous month at +5.0% and dropped by one position to 12th. **Turkish Airlines** recorded a solid growth at +7.1% and remained at 14th.

China Southern, **Air China** and **China Eastern** retained their position of 8th, 9th and 10th with growth of +7.8%, +2.9% and +7.9%, respectively. **Singapore Airlines** recorded the second highest growth among the Top 15 and ranked 15th.

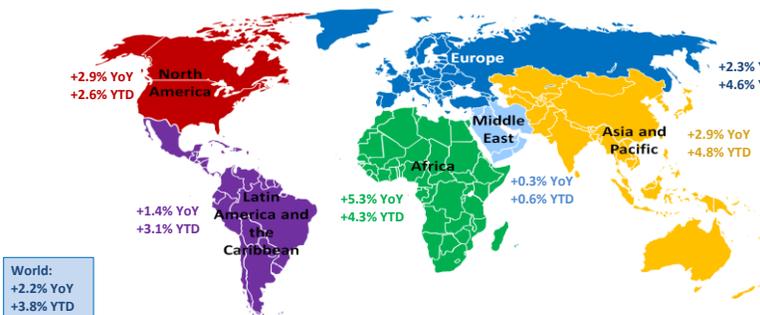
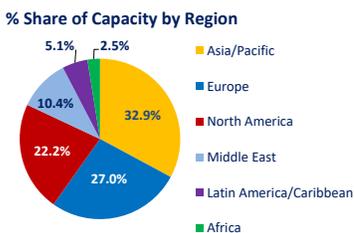


(Source: ICAO, airlines' websites)

Note: Total scheduled and non-scheduled services

CAPACITY BY REGION (ICAO Statistical Regions)

OCT 2019: +2.2% YoY in terms of World ASK



Worldwide capacity expanded by +2.2% YoY in October 2019. Three regions recorded acceleration in capacity expansion while notable slowdown was posted by **Asia/Pacific** followed by **Europe**, resulting in the overall deceleration of the world total capacity.

Africa became the fastest expanding region. For the second consecutive time, the **Middle East** was the slowest growing region.

(Source: ICAO, IATA, OAG)

Note: Total scheduled services

* Embarked Passengers ** Loaded and Unloaded Freight in Tonnes 1. ICAO estimates 2. Lufthansa Airlines, Eurowings, SWISS, Austrian Airlines, Brussels Airlines, Sun Express, and Lufthansa Cargo 3. British Airways, Aer Lingus, Iberia, and Vueling

ACRONYMS: ACI: Airports Council International; ASK: Available Seat-Kilometres; IATA: International Air Transport Association; FTK: Freight Tonne-Kilometres; LF: Passenger Load Factor; OAG: Official Airline Guide; RPK: Revenue Passenger-Kilometres; UNWTO: World Tourism Organization; YoY: Year-on-year; YTD: Year-to-date.