



CIRIUM

THE ON-TIME PERFORMANCE MONTHLY REPORT

AIRPORTS

MAY 2024

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DATA IN. INTELLIGENCE OUT.

Empowering the aviation industry with insights on past, present, and future airline supply, demand, traffic and fares.

Research markets faster

Track schedules and research existing or target markets from a simple and intuitive online interface.

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Calculate passenger volume and revenue by route and identify risks and opportunities for growth.

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Global demand-based traffic data provides a more complete picture of both supply and demand.

Cirium Diio is the leading airline analytics platform for the aviation industry.

The Cirium Diio suite helps stakeholders forecast air travel trends with reliable data on supply, demand, traffic and fares. Cirium serves airlines, airports, travel providers, tourism and other aviation sectors.



CIRIUM
aviation analytics

THE MOST ON-TIME AIRPORTS



The most on-time

Global Airports

	On-Time Ranking	On-Time Departure	Tracked Flights	Total Flights	Avg Dep Delay	Routes Served	Summary of Top Performers
King Khalid International Airport (RUH)	1	88.23%	82.17%	19,620	55	91	Total On-Time Departures 79.77%
Oslo Airport Gardermoen (OSL)	2	87.97%	98.71%	18,252	37	111	
Jorge Chavez International Airport (LIM)	3	86.86%	84.11%	14,593	53	62	
Haneda Airport (HND)	4	85.99%	98.21%	40,077	30	99	
Arturo Merino Benitez Airport (SCL)	5	85.86%	99.22%	11,688	51	54	
Sao Paulo-Guarulhos International Airport (GRU)	6	84.80%	96.32%	20,906	42	99	Total Tracked Flights 95.78%
Narita International Airport (NRT)	7	84.17%	90.69%	17,472	43	110	
Hamad International Airport (DOH)	8	83.86%	99.85%	20,524	43	171	
Istanbul Airport (IST)	9	83.18%	95.33%	39,391	38	282	Total Flights 436,307
Stockholm Arlanda Airport (ARN)	10	82.98%	98.97%	15,969	41	129	
Copenhagen Airport (CPH)	11	82.85%	99.04%	20,532	39	145	
El Dorado International Airport (BOG)	12	82.72%	89.37%	28,495	50	98	
Salt Lake City International Airport (SLC)	13	82.69%	99.93%	20,118	63	95	
Minneapolis-St. Paul International Airport (MSP)	14	82.56%	99.09%	25,933	69	137	Total Seats 80.15M
Benito Juarez International Airport (MEX)	15	82.53%	99.28%	26,124	58	95	
Washington Dulles International Airport (IAD)	16	82.01%	95.71%	19,945	68	130	
Vancouver International Airport (YVR)	17	81.86%	93.16%	20,070	53	106	Total Routes 2,317
Abu Dhabi International Airport (AUH)	18	81.48%	98.57%	12,406	53	114	
Detroit Metropolitan Wayne County Airport (DTW)	19	81.40%	99.89%	24,877	72	112	
Melbourne Tullamarine Airport (MEL)	20	81.25%	97.91%	19,315	42	77	

Operational Highlights

	On-Time Departure	On-Time Arrival	Total Routes Served	Total Airlines Served
King Khalid International Airport (RUH)	88.23%	83.50%	91	50
Oslo Airport Gardermoen (OSL)	87.97%	84.99%	111	37
Jorge Chavez International Airport (LIM)	86.86%	81.08%	62	24
Haneda Airport (HND)	85.99%	81.51%	99	43
Arturo Merino Benitez Airport (SCL)	85.86%	81.29%	54	15

The most on-time
Large Airports

	On-Time Ranking	On-Time Departure	Tracked Flights	Total Flights	Avg Dep Delay	Routes Served	Summary of Top Performers
New Chitose Airport (CTS)	1	91.34%	99.98%	12,342	31	35	Total On-Time Departures 79.86%
Sao Paulo/Congonhas Airport (CGH)	2	88.53%	94.07%	16,001	35	43	
King Khalid International Airport (RUH)	3	88.23%	82.17%	19,620	55	91	
Oslo Airport Gardermoen (OSL)	4	87.97%	98.71%	18,252	37	111	
Jorge Chavez International Airport (LIM)	5	86.86%	84.11%	14,593	53	62	
Haneda Airport (HND)	6	85.99%	98.21%	40,077	30	99	Total Tracked Flights 94.43%
Arturo Merino Benitez Airport (SCL)	7	85.86%	99.22%	11,688	51	54	
Fukuoka Airport (FUK)	8	84.98%	98.42%	15,862	30	44	
Sao Paulo-Guarulhos International Airport (GRU)	9	84.80%	96.32%	20,906	42	99	
Narita International Airport (NRT)	10	84.17%	90.69%	17,472	43	110	
Hamad International Airport (DOH)	11	83.86%	99.85%	20,524	43	171	Total Flights 394,142
Gimpo International Airport (GMP)	12	83.81%	82.22%	11,378	35	14	
Daniel K. Inouye International Airport (HNL)	13	83.62%	86.85%	13,580	52	54	
Istanbul Airport (IST)	14	83.18%	95.33%	39,391	38	282	
Naha Airport (OKA)	15	83.11%	95.97%	11,409	32	40	
Stockholm Arlanda Airport (ARN)	16	82.98%	98.97%	15,969	41	129	Total Seats 74.76M
Copenhagen Airport (CPH)	17	82.85%	99.04%	20,532	39	145	
El Dorado International Airport (BOG)	18	82.72%	89.37%	28,495	50	98	
Salt Lake City International Airport (SLC)	19	82.69%	99.93%	20,118	63	95	
Minneapolis-St. Paul International Airport (MSP)	20	82.56%	99.09%	25,933	69	137	
							Total Routes 1,913

Operational Highlights

	On-Time Departure	On-Time Arrival	Total Routes Served	Total Airlines Served
New Chitose Airport (CTS)	91.34%	90.88%	35	28
Sao Paulo/Congonhas Airport (CGH)	88.53%	88.60%	43	4
King Khalid International Airport (RUH)	88.23%	83.50%	91	50
Oslo Airport Gardermoen (OSL)	87.97%	84.99%	111	37
Jorge Chavez International Airport (LIM)	86.86%	81.08%	62	24

The most on-time
Medium Airports

	On-Time Ranking	On-Time Departure	Tracked Flights	Total Flights	Avg Dep Delay	Routes Served	Summary of Top Performers
Brasilia International Airport (BSB)	1	93.40%	98.69%	8,637	43	44	Total On-Time Departures 79.46%
Santos Dumont Airport (SDU)	2	92.96%	98.73%	5,081	45	6	
Osaka International Airport (ITM)	3	92.91%	99.47%	11,322	27	26	
Jorge Newbery Airport (AEP)	4	91.31%	89.33%	7,912	64	52	
Tocumen International Airport (PTY)	5	90.70%	99.51%	11,364	53	90	Total Tracked Flights 96.32%
Viracopos Airport (VCP)	6	85.53%	99.24%	9,115	36	63	
Kuwait International Airport (KWI)	7	83.98%	83.11%	9,258	45	79	
Tijuana Airport (TIJ)	8	83.90%	98.12%	6,311	54	37	
Norman Y. Mineta San Jose International Airport (SJC)	9	83.63%	100.00%	8,829	55	40	Total Flights 196,701
Portland International Airport (PDX)	10	83.55%	99.86%	13,028	64	70	
Sharjah International Airport (SHJ)	11	82.60%	86.59%	8,051	54	85	
Perth Airport (PER)	12	81.77%	97.04%	8,372	52	42	
Sacramento International Airport (SMF)	13	80.71%	99.98%	9,755	61	40	Total Seats 31.11M
Netaji Subhas Chandra Bose Airport (CCU)	14	80.45%	85.97%	12,119	67	65	
Metropolitan Oakland International Airport (OAK)	15	80.07%	98.39%	7,740	50	44	
Helsinki-Vantaa Airport (HEL)	16	78.50%	99.97%	12,464	34	105	
Auckland Airport (AKL)	17	78.43%	95.46%	11,305	36	58	Total Routes 1,206
Addis Ababa Bole International Airport (ADD)	18	77.86%	98.48%	11,377	34	111	
Calgary International Airport (YYC)	19	77.07%	99.98%	12,593	48	84	
Raleigh-Durham International Airport (RDU)	20	77.03%	98.44%	12,068	79	65	

Operational Highlights

	On-Time Departure	On-Time Arrival	Total Routes Served	Total Airlines Served
Brasilia International Airport (BSB)	93.40%	91.08%	44	7
Santos Dumont Airport (SDU)	92.96%	92.16%	6	4
Osaka International Airport (ITM)	92.91%	90.07%	26	4
Jorge Newbery Airport (AEP)	91.31%	88.32%	52	8
Tocumen International Airport (PTY)	90.70%	90.34%	90	14

The most on-time
Small Airports

	On-Time Ranking	On-Time Departure	Tracked Flights	Total Flights	Avg Dep Delay	Routes Served	Summary of Top Performers
Cape Town International Airport (CPT)	1	94.48%	84.16%	6,126	66	38	Total On-Time Departures 83.01%
Taipei Songshan Airport (TSA)	2	92.07%	97.16%	4,158	40	15	
El Salvador International Airport (SAL)	3	92.03%	86.86%	3,680	74	29	
Jose Joaquin de Olmedo Airport (GYE)	4	91.52%	98.37%	2,842	81	15	
Trondheim Airport Vaernes (TRD)	5	91.22%	95.39%	4,091	36	28	Total Tracked Flights 94.28%
Mariscal Sucre International Airport (UIO)	6	90.23%	89.53%	3,614	63	25	
Stavanger Airport Sola (SVG)	7	90.15%	99.53%	3,462	41	22	
Galeao Antonio Carlos Jobim International Airport (GIG)	8	89.62%	97.25%	7,126	63	57	
Deputado Luis Eduardo Magalhaes International Airport (SSA)	9	89.56%	97.01%	3,975	42	23	Total Flights 103,249
Afonso Pena International Airport (CWB)	10	89.33%	99.60%	4,103	47	24	
Chubu Centrair International Airport (NGO)	11	89.02%	99.13%	7,152	40	39	
Ministro Pistarini Airport (EZE)	12	88.85%	81.11%	4,389	85	54	
Bergen Airport (BGO)	13	87.81%	99.66%	6,555	36	53	Total Seats 16.38M
Pinto Martins Airport (FOR)	14	87.80%	94.56%	3,113	44	26	
Tancredo Neves International Airport (CNF)	15	87.51%	100.00%	8,580	38	58	
Jose Maria Cordova International Airport (MDE)	16	86.96%	85.39%	8,090	43	32	
Queen Alia International Airport (AMM)	17	86.82%	97.93%	5,521	45	65	Total Routes 723
Beirut-Rafic Hariri International Airport (BEY)	18	86.59%	94.72%	3,887	42	52	
Kona International Airport at Keahole (KOA)	19	86.09%	93.36%	2,830	56	14	
Kuching International Airport (KCH)	20	86.02%	92.98%	3,265	52	15	

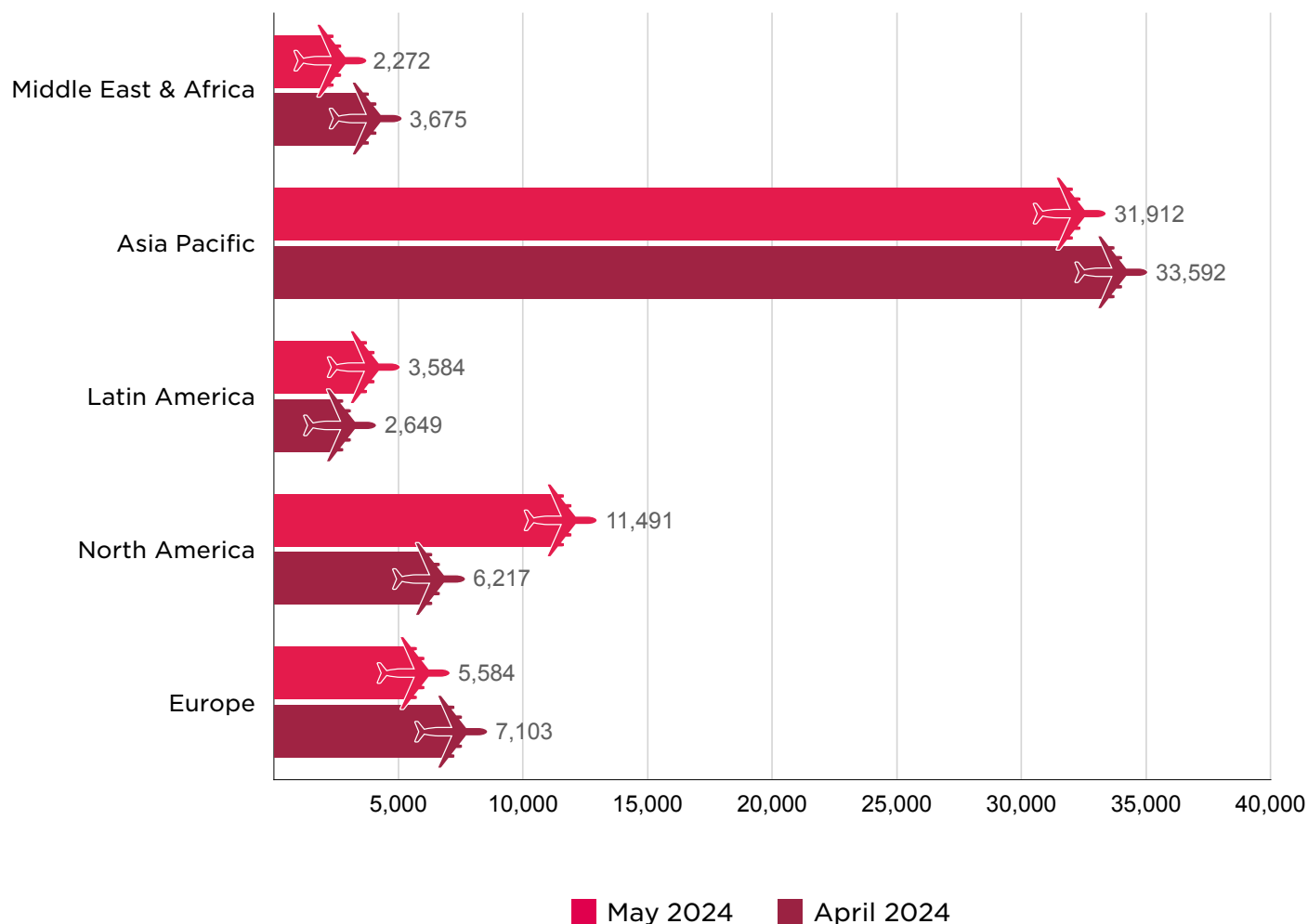
Operational Highlights

	On-Time Departure	On-Time Arrival	Total Routes Served	Total Airlines Served
Cape Town International Airport (CPT)	94.48%	94.53%	38	24
Taipei Songshan Airport (TSA)	92.07%	87.97%	15	13
El Salvador International Airport (SAL)	92.03%	85.47%	29	15
Jose Joaquin de Olmedo Airport (GYE)	91.52%	87.43%	15	11
Trondheim Airport Vaernes (TRD)	91.22%	91.17%	28	8

Trend Report

	Airport	May 24	Apr 24	Mar 24
GLOBAL AIRPORT RANKING				
1	(RUH) King Khalid International Airport	88.23%	86.77%	87.32%
2	(OSL) Oslo Airport Gardermoen	87.97%	85.84%	85.84%
3	(LIM) Jorge Chavez International Airport	86.86%	88.66%	89.41%
4	(HND) Haneda Airport	85.99%	87.85%	80.20%
5	(SCL) Arturo Merino Benitez Airport	85.86%	86.40%	86.95%
LARGE AIRPORT RANKING				
1	(CTS) New Chitose Airport	91.34%	92.29%	82.40%
2	(CGH) Sao Paulo/ Congonhas Airport	88.53%	85.82%	81.16%
3	(RUH) King Khalid International Airport	88.23%	86.77%	87.32%
4	(OSL) Oslo Airport Gardermoen	87.97%	85.84%	85.84%
5	(LIM) Jorge Chavez International Airport	86.86%	88.66%	89.41%
MEDIUM AIRPORT RANKING				
1	(BSB) Brasilia International Airport	93.40%	90.79%	88.95%
2	(SDU) Santos Dumont Airport	92.96%	90.74%	86.89%
3	(ITM) Osaka International Airport	92.91%	94.10%	88.63%
4	(AEP) Jorge Newbery Airport	91.31%	85.43%	76.90%
5	(PTY) Tocumen International Airport	90.70%	91.06%	91.65%
SMALL AIRPORT RANKING				
1	(CPT) Cape Town International Airport	94.48%	88.10%	89.27%
2	(TSA) Taipei Songshan Airport	92.07%	86.45%	93.61%
3	(SAL) El Salvador International Airport	92.03%	93.42%	91.61%
4	(GYE) Jose Joaquin de Olmedo Airport	91.52%	91.69%	91.67%
5	(TRD) Trondheim Airport Vaernes	91.22%	90.01%	89.70%

Cancellations Report



APPENDIX



Report Calculation

Airport calculations

Each month Cirium reviews the total number of flights in a given month (approximately 3 million) for every airport globally in an ordered list, then looks at where the percentile demarcations fall. For the annual OTP review, **we take the total number of flights in a given year for every airport.**

Airports are selected based on a combination of factors, including:



Global Airport

- 25-40m seats
- Actual gate departure coverage 80% or better
- Must serve at least three (3) regions (inclusive of its own)

Large Airport

- 25-40m seats
- Actual gate departure coverage 80% or better
- Note: this category can include airports in the global airport category

Medium Airport

- 15-25m seats
- Actual gate departure coverage 80% or better

Small Airport

- 5-15m seats
- Actual gate departure coverage 80% or better

Airport size categories are calculated during the last complete calendar year.

Usage and attribution

We ask you to cite Cirium if you extract and use the data and information in this report in your own content and marketing. Where possible please also link to www.cirium.com.

The data presented in this report derives from The Cirium Core, which holds information from over 2,000 sources. **Cirium verifies and quality checks all the data as we process it. Cirium is solely responsible for all insights and analyses provided in this report.**

As a neutral partner in the industry, we rank airlines and airports from an independent position. It is our mission to accelerate the industry's digital transformation.

Examples of how to cite us:

For questions about **citing Cirium's on-time performance analysis**, please contact us at OTP@cirium.com

“Cirium's airport on-time performance **analysis shows 88.23%** of King Khalid International Airport's flights departed on-time in May.”

“Based on Cirium's most current data, New Chitose Airport handled 12,342 flights in May, **resulting in a 91.34% on-time departure rate.**”

“In May, **93.40% of flights** from Brasilia International Airport **departed on-time**, according to the aviation analytics firm Cirium®.”

“**94.48% of flights** from Cape Town International Airport left on time in May, according to Cirium's on-time performance data.”

Glossary of terms

**AVAILABLE SEAT
KILOMETERS (ASK)**

The number of seats available multiplied by the number of kilometers between origin and destination.

BLOCK TIME

Referred to as BO. The percentage of flights that were completed within their scheduled time.

COMPLETION FACTOR

Completion factor which is the percentage of tracked flights that were completed (e.g., not canceled)

COVERAGE

The percentage of published flights for which we have an actual arrival gate time for airlines and an actual departure time for airports against which we can measure a flight's performance versus its schedule.

ON-TIME ARRIVAL

The percentage of completed flights that arrived at the gate on time. On time is defined as arriving within 15 minutes of the scheduled arrival time. The on-time arrival ranking is used to determine the top performing airlines.

ON-TIME DEPARTURE

The percentage of completed flights that departed at the gate on time. On time is defined as departing within 15 minutes of the scheduled departing time. The on-time departure ranking is used to determine the top performing airports.

ON-TIME RANKING

For each list of airlines and airports, on-time performance is ranked where a rank of 1 equates to the best performance.

SEATS (MILLIONS)

The estimated seat capacity of all scheduled flights.

TOTAL FLIGHTS

The total number of scheduled single segment flights (consisting of one origin and one destination).

TRACKED FLIGHTS

The percentage of published flights for which Cirium tracked an actual gate arrival time, cancellation or diversion.

Cirium history

Cirium brings together powerful data and analytics to keep the world moving. Cirium delivers insight built from decades of experience in the sector. We empower travel companies, aircraft manufacturers, airports, airlines, and financial institutions, among others, to make logical and informed decisions to shape the future of travel, grow revenues, and enhance customer experiences. Cirium is part of RELX PLC, a global provider of information-based analytics and decision tools for professional and business customers.

1909

Launched the world's first weekly aerospace magazine.

1985

Launched airline specific insights to airline C-suite with the title **Airline Business**.

1997

Created online news and data service for aerospace and airports (formerly known as **ATI**).

2004

Expanded in aerospace with the most comprehensive technical fleet database (known previously as **ACAS**).

2011

Grew portfolio with the addition of aircraft finance services with historical fleet and valuations data with acquisition of **Ascend**.

2014

Added historical airline schedules data to business with acquiring **Innovata**.

2016

The pioneer in global, real-time flight status data, **FlightStats** brought into the group.

Expanded the group's offering with **Diio**'s fares, traffic and schedules analysis tools.

2019

New aviation analytics brand **Cirium** launched showcasing the industry's largest data store and an advanced solutions portfolio.

2020

Added live flight and navigational data to the Cirium portfolio, bringing in initiatives for System Wide Information Management (SWIM), with **Snowflake Software**.

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