2022 AIRPORT BENCHMARKING REPORT **Global Standards for Airport Excellence Information Package ©Air Transport Research Society**

2022 Airport Benchmarking Team

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Airports included in the ATRS Airport Benchmarking Report

		Asia Pacific	
	Code	Airport Name	City, Country
1	ADL	Adelaide International Airport	Adelaide, Australia
2	AKL	Auckland International Airport	Auckland, New Zealand
3	BKK	Suvarnabhumi Airport	Bangkok, Thailand
4	BNE	Brisbane Airport	Brisbane, Australia
5	BOM	Chhatarpati Shivaji International Airport	Mumbai, India
6	CAN	Bai Yun Airport	Guangzhou, China
7	CEI	Mae Fah Luang-Chiang Rai International Airport	Chiang Rai, Thailand
8	CGK	Jakarta Soekarno-Hatta International Airport	Jakarta, Indonesia
9	CJU	Jeju International Airport	Jeju, Korea
10	CHC	Christchurch International Airport	Christchurch, New Zealand
11	CMB	Bandaranaike International Airport	Colombo, Sri Lanka
12	CNS	Cairns International Airport	Cairns, Australia
13	CNX DEL	Chiang Mai International Airport	Chiang Mai, Thailand
14 15	DRW	Indira Gandhi International Airport Darwin International Airport	New Delhi, India Darwin, Australia
16	DUD	·	Darwin, Australia Dunedin, New Zealand
17	DXB	Dunedin International Airport Dubai International Airport	Duhedin, New Zealand Dubai, UAE
18	GMP	Seoul Gimpo International Airport	Seoul, South Korea
19	GUM	Antonio B. Won Pat International Airport	Hagatna, Guam
20	HAK	Meilan International Airport	Haikou, China
21	HDY	Hat Yai International Airport	Hat Yai, Thailand
22	HKG	Hong Kong International Airport	Hong Kong, China
23	HKT	Phuket International Airport	Phuket, Thailand
24	HND	Haneda Airport	Tokyo, Japan
25	ICN	Incheon International Airport	Incheon, Korea
26	KIX	Kansai International Airport	Osaka, Japan
27	KUL	Kuala Lumpur International Airport	Kuala Lumpur, Malaysia
28	MAA	Chennai International Airport	Chennai, India
29	MEL	Melbourne Airport	Melbourne, Australia
30	MFM	Macau International Airport	Macau, China
31	MNL	Ninoy Aquino International Airport	Manila, The Philippines
32	NAN	Nadi International Airport	Nadi, Fiji
33	NGO	Central Japan International Airport	Nagoya, Japan
34	NRT	Tokyo Narita International Airport	Tokyo, Japan
35	NTL	Newcastle Airport	Newcastle, Australia
36	OOL	Gold Coast Airport	Gold Coast, Australia
37	PEK	Beijing Capital International Airport	Beijing, China
38	PEN	Penang International Airport	Penang, Malaysia
39	PER	Perth International Airport	Perth, Australia
40	PNH	Phnom Penh International Airport	Phnom Penh, Cambodia
41	PUS	Gimhae International Airport	Busan, Korea
42	PVG	Shanghai Pudong International Airport	Shanghai, China
43	REP	Siem Reap International Airport	Siem Reap, Cambodia
44	SHA	Shanghai Hongqiao International Airport	Shanghai, China
45	SIN	Singapore Changi International Airport	Singapore, Singapore
46	SUB	Juanda International Airport	Sidoarjo, Indonesia
47	SYD	Sydney Airport	Sydney, Australia
48	SZX	Shenzhen Bao'an International Airport	Shenzhen, China
49	TPE	Taiwan Taoyuan International Airport	Taipei, Taiwan
50	TSV	Townsville Airport	Townsville, Australia
51	WLG	Wellington International Airport	Wellington, New Zealand
52	XMN	Xiamen Gaoqi International Airport	Xiamen, China
53	ZQN	Queenstown Airport	Frankton, New Zealand

		Europe	
	Airport Code	Airport Name	City, Country
54	AGP	Malaga-Costa del Sol Airport	Malaga, Spain
55	ALC	Alicante Airport	El Altet - Torrellano, Spain
56	AMS	Amsterdam Airport Schiphol	Amsterdam, The Netherlands
57	ARN	Stockholm-Arlanda Airport	Stockholm, Sweden
58	ATH	Athens International Airport	Athens, Greece
59	BCN	Barcelona El Prat Airport	Barcelona, Spain
60	BEG	Belgrade Nikola Tesla Airport	Belgrade, Serbia
61	BGY	Bergamo-Orio al Serio Airport	Bergamo, Italy
62	BHX	Birmingham Airport	Birmingham, England
63	BLQ	Bologna Airport	Bologna, Italy
64	BRS	Bristol Airport	Lulsgate Bottom, England
65	BRU	Brussels Airport	Brussels, Belgium
66	BSL	EuroAirport Basel-Mulhouse-Freiburg	Basel, Switzerland
67	BTS	Bratislava Milan Rastislav Stefanik Airport	Bratislava, Slovakia
68	BUD	Budapest Ferenc Liszt International Airport	Budapest, Hungary
69	CDG	Paris Charles de Gaulle Airport	Paris, France
70	CGN	Cologne/Bonn Konrad Adenauer Airport	Cologne, Germany
71	CIA	Rome Ciampino Airport	Rome, Italy
72	CPH	Copenhagen Airport Kastrup	Copenhagen, Denmark
73	DUB	Dublin Airport,	Dublin, Ireland
74	DUS	Düsseldorf International Airport	Düsseldorf, Germany
75	EDI	Edinburgh Airport	Edinburgh, Scotland
76	FCO	Rome Leonardo Da Vinci/Fiumicino Airport	Rome, Italy
77	FRA	Frankfurt Airport	Frankfurt, Germany
78	GLA	Glasgow Airport	Renfrewshire, Scotland
79	GVA	Genève Aéroport	Geneva, Switzerland
80	HAJ	Hannover Airport	Langenhagen, Germany
81 82	HAM HEL	Hamburg Airport	Hamburg, Germany
83	IST	Helsinki Vantaa Airport Istanbul Airport	Helsinki, Finland
84	KBP	Kiev Boryspil International Airport	Istanbul, Turkey Kiev, Ukraine
85	KEF	Keflavik International Airport	Reykjanesbaer, Iceland
86	LED	Pulkovo Airport	Saint Petersburg, Russia
87	IGW	London Gatwick International Airport	London, England
88	LHR	London Heathrow Airport	London, England
89	LIN	Milan Linate Airport	Milan, Italy
90	LIS	Lisbon Portela Airport	Lisbon, Portugal
91	LJU	Ljubljana Jože Pučnik Airport	Ljubljana, Slovenia
92	LPA	Gran Canaria Airport	Teldi, Spain
93	LTN	London Luton Airport	London, England
94	LUX	Luxembourg Airport	Findel, Luxembourg
95	LYS	Lyon-Saint Exupery Airport	Colombier-Saugnieu, France
96	MAD	Madrid Barajas Airport	Madrid, Spain
97	MAN	Manchester Airport	Manchester, England
98	MLA	Malta International Airport	Valletta, Malta
99	MUC	Munich Airport	Munich, Germany
100	MXP	Milan Malpensa Airport	Milan, Italy
101	NAP	Naples International Airport	Naples, Italy
102	NCE	Nice Cote D'Azur Airport	Nice, France
103	OPO	Porto Airport	Porto, Portugal



Airports included in the ATRS Airport Benchmarking Report

		Europe	
	Airport Code	Airport Name	City, Country
104	ORY	Paris Orly Airport	Paris, France
105	OSL	Oslo Airport Gardermoen	Oslo, Norway
106	PMI	Palma de Mallorca Airport	Palma de Mallorca, Spain
107	PRG	Prague International Airport	Prague, Czech Republic
108	RIX	Riga International Airport	Riga, Latvia
109	SAW	Istanbul Sabiha Gökçen International Airport	Istanbul, Turkey
110	SOF	Sofia Airport	Sofia, Bulgaria
111	STN	London Stansted Airport	London, England
112	STR	Stuttgart Airport	Stuttgart, Germany
113	SVO	Sheremety evo International Airport	Moscow, Russia
114	SXF	Berlin Schönefeld Airport	Berlin, Germany
115	SZG	Salzburg W.A. Mozart Airport	Salzburg, Austria
116	TLL	Lennart Meri Tallinn Airport	Tallinn, Estonia
117	TLV	Ben Gurion International Airport	Tel Aviv, Israel
118	TRN	Turin Caselle Airport	Turin, Italy
119	TXL	Berlin Tegel Airport	Berlin, Germany
120	VCE	Venice Marco Polo Airport	Venice, Italy
121	ME	Vienna International Airport	Vienna, Austria
122	WAW	Warsaw Chopin Airport	Warsaw, Poland
123	ZAG	Zagreb Airport	Zagreb, Croatia
124	ZRH	Zurich Airport	Zurich, Switzerland

Code Airport Name City, State ABQ Albuquerque International Sunport Albuquerque, New Mexico ALB Albany International Airport Albany, New York Albany, New Mexico Albany, New York Albany, Albany Albany, New York Alb			N (1 A . 1 . 11 % 10)	•
125 ABQ Albuquerque International Sunport Albuquerque, New Mexico 126 ALB Albany International Airport Albany, New York 127 ANC Ted Stevens Anchorage International Airport Anchorage, Alaska 128 ATL Hartsfield-Jackson Atlanta International Airport Atlanta, Georgia 129 AUS Austin Bergstrom Airport Austin, Texas 130 BDL Bradley International Airport Windsor Locks, Connecticut 131 BNA Nashville International Airport Nashville, Tennesse 132 BOS Boston Logan International Airport Boston, Massachusetts 133 BUF Buffalo Niagara International Airport Boston, Massachusetts 134 BUR Bob Hope Airport Burbank, California 135 BWI Baltimore Washington International Airport Baltimore, Maryland 136 CLE Cleveland-Hopkins International Airport Cleveland, Ohio 137 CLT Charlotte Douglas International Airport Charlotte, North Carolina 138 CMH Port Columbus International Airport Columbus, Ohio 139 CVG Cincinnati/Northern Kentucky International Airport Dallas, Texas 141 DCA Ronald Reagan Washington National Airport Denver, Colorado 142 DEN Denver International Airport Dellas, Texas 144 DTW Detroit Metropolitan Wayne County Airport Newark, New Jersey 146 FLL Fort Lauderdale Hollywood International Airport Houston, Texas 149 IAD Washington Dulles International Airport Houston, Texas 149 IAD Washington Dulles International Airport Houston, Texas				
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133 BUF Buffalo Niagara International Airport Cheektowaga, New York 134 BUR Bob Hope Airport Burbank, California 135 BWI Baltimore Washington International Airport Baltimore, Maryland 136 CLE Cleveland-Hopkins International Airport Cleveland, Ohio 137 CLT Charlotte Douglas International Airport Charlotte, North Carolina 138 CMH Port Columbus International Airport Columbus, Ohio 139 CVG Cincinnati/Northern Kentucky International Airport Cincinnati, Ohio 140 DAL Dallas Love Field Airport Dallas, Texas 141 DCA Ronald Reagan Washington National Airport Washington, DC 142 DEN Denver International Airport Denver, Colorado 143 DFW Dallas Forth Worth International Airport Dallas, Texas 144 DTW Detroit Metropolitan Wayne County Airport Detroit, Michigan 145 EWR Newark Liberty International Airport Newark, New Jersey 146 FLL Fort Lauderdale Hollywood International Airport Honolulu, Hawaii 147 HNL Honolulu International Airport Houston, Texas 149 IAD Washington Dulles International Airport Washington, DC 150 IAH George Bush Intercontinental Airport Houston, Texas	131	BNA	Nashville International Airport	Nashville, Tennesse
134 BUR Bob Hope Airport Burbank, California 135 BWI Baltimore Washington International Airport Baltimore, Maryland 136 CLE Cleveland-Hopkins International Airport Cleveland, Ohio 137 CLT Charlotte Douglas International Airport Charlotte, North Carolina 138 CMH Port Columbus International Airport Columbus, Ohio 139 CVG Cincinnati/Northern Kentucky International Airport Cincinnati, Ohio 140 DAL Dallas Love Field Airport Dallas, Texas 141 DCA Ronald Reagan Washington National Airport Washington, DC 142 DEN Denver International Airport Denver, Colorado 143 DFW Dallas Forth Worth International Airport Dallas, Texas 144 DTW Detroit Metropolitan Wayne County Airport Detroit, Michigan 145 EWR Newark Liberty International Airport Newark, New Jersey 146 FLL Fort Lauderdale Hollywood International Airport Honolulu, Hawaii 147 HNL Honolulu International Airport Houston, Texas 149 IAD Washington Dulles International Airport Washington, DC 150 IAH George Bush Intercontinental Airport Houston, Texas	132	BOS	Boston Logan International Airport	Boston, Massachusetts
135 BWI Baltimore Washington International Airport Cleveland, Ohio 136 CLE Cleveland-Hopkins International Airport Cleveland, Ohio 137 CLT Charlotte Douglas International Airport Charlotte, North Carolina 138 CMH Port Columbus International Airport Columbus, Ohio 139 CVG Cincinnati/Northern Kentucky International Airport Cincinnati, Ohio 140 DAL Dallas Love Field Airport Dallas, Texas 141 DCA Ronald Reagan Washington National Airport Washington, DC 142 DEN Denver International Airport Denver, Colorado 143 DFW Dallas Forth Worth International Airport Dallas, Texas 144 DTW Detroit Metropolitan Wayne County Airport Detroit, Michigan 145 EWR Newark Liberty International Airport Newark, New Jersey 146 FLL Fort Lauderdale Hollywood International Airport Ft. Lauderdale, Florida 147 HNL Honolulu International Airport Honolulu, Hawaii 148 HOU William P. Hobby Airport Houston, Texas 149 IAD Washington Dulles International Airport Washington, DC 150 IAH George Bush Intercontinental Airport Houston, Texas	133	BUF	Buffalo Niagara International Airport	Cheektowaga, New York
136 CLE Cleveland-Hopkins International Airport Cleveland, Ohio 137 CLT Charlotte Douglas International Airport Charlotte, North Carolina 138 CMH Port Columbus International Airport Columbus, Ohio 139 CVG Cincinnati/Northern Kentucky International Airport Cincinnati, Ohio 140 DAL Dallas Love Field Airport Dallas, Texas 141 DCA Ronald Reagan Washington National Airport Washington, DC 142 DEN Denver International Airport Denver, Colorado 143 DFW Dallas Forth Worth International Airport Dallas, Texas 144 DTW Detroit Metropolitan Wayne County Airport Detroit, Michigan 145 EWR Newark Liberty International Airport Newark, New Jersey 146 FLL Fort Lauderdale Hollywood International Airport Ft. Lauderdale, Florida 147 HNL Honolulu International Airport Honolulu, Hawaii 148 HOU William P. Hobby Airport Houston, Texas 149 IAD Washington Dulles International Airport Washington, DC 150 IAH George Bush Intercontinental Airport Houston, Texas	134	BUR	Bob Hope Airport	Burbank, California
137 CLT Charlotte Douglas International Airport Charlotte, North Carolina 138 CMH Port Columbus International Airport Columbus, Ohio 139 CVG Cincinnati/Northern Kentucky International Airport Cincinnati, Ohio 140 DAL Dallas Love Field Airport Dallas, Texas 141 DCA Ronald Reagan Washington National Airport Washington, DC 142 DEN Denver International Airport Denver, Colorado 143 DFW Dallas Forth Worth International Airport Dallas, Texas 144 DTW Detroit Metropolitan Wayne County Airport Detroit, Michigan 145 EWR Newark Liberty International Airport Newark, New Jersey 146 FLL Fort Lauderdale Hollywood International Airport Ft. Lauderdale, Florida 147 HNL Honolulu International Airport Honolulu, Hawaii 148 HOU William P. Hobby Airport Houston, Texas 149 IAD Washington Dulles International Airport Washington, DC 150 IAH George Bush Intercontinental Airport Houston, Texas	135	BWI	Baltimore Washington International Airport	Baltimore, Maryland
138 CMH Port Columbus International Airport Columbus, Ohio 139 CVG Cincinnati/Northern Kentucky International Airport Cincinnati, Ohio 140 DAL Dallas Love Field Airport Dallas, Texas 141 DCA Ronald Reagan Washington National Airport Washington, DC 142 DEN Denver International Airport Denver, Colorado 143 DFW Dallas Forth Worth International Airport Dallas, Texas 144 DTW Detroit Metropolitan Wayne County Airport Detroit, Michigan 145 EWR Newark Liberty International Airport Newark, New Jersey 146 FLL Fort Lauderdale Hollywood International Airport Honolulu, Hawaii 147 HNL Honolulu International Airport Honolulu, Hawaii 148 HOU William P. Hobby Airport Washington, DC 150 IAH George Bush Intercontinental Airport Houston, Texas	136	CLE	Cleveland-Hopkins International Airport	Cleveland, Ohio
139 CVG Cincinnati/Northern Kentucky International Airport Cincinnati, Ohio 140 DAL Dallas Love Field Airport Dallas, Texas 141 DCA Ronald Reagan Washington National Airport Washington, DC 142 DEN Denver International Airport Denver, Colorado 143 DFW Dallas Forth Worth International Airport Dallas, Texas 144 DTW Detroit Metropolitan Wayne County Airport Detroit, Michigan 145 EWR Newark Liberty International Airport Newark, New Jersey 146 FLL Fort Lauderdale Hollywood International Airport Honolulu, Hawaii 147 HNL Honolulu International Airport Honolulu, Hawaii 148 HOU William P. Hobby Airport Houston, Texas 149 IAD Washington Dulles International Airport Washington, DC 150 IAH George Bush Intercontinental Airport Houston, Texas	137	CLT	Charlotte Douglas International Airport	Charlotte, North Carolina
140 DAL Dallas Love Field Airport Dallas, Texas 141 DCA Ronald Reagan Washington National Airport Washington, DC 142 DEN Denver International Airport Denver, Colorado 143 DFW Dallas Forth Worth International Airport Dallas, Texas 144 DTW Detroit Metropolitan Wayne County Airport Detroit, Michigan 145 EWR Newark Liberty International Airport Newark, New Jersey 146 FLL Fort Lauderdale Hollywood International Airport Ft. Lauderdale, Florida 147 HNL Honolulu International Airport Honolulu, Hawaii 148 HOU William P. Hobby Airport Houston, Texas 149 IAD Washington Dulles International Airport Washington, DC 150 IAH George Bush Intercontinental Airport Houston, Texas	138	CMH	Port Columbus International Airport	Columbus, Ohio
141 DCA Ronald Reagan Washington National Airport Washington, DC 142 DEN Denver International Airport Denver, Colorado 143 DFW Dallas Forth Worth International Airport Dallas, Texas 144 DTW Detroit Metropolitan Wayne County Airport Detroit, Michigan 145 EWR Newark Liberty International Airport Newark, New Jersey 146 FLL Fort Lauderdale Hollywood International Airport Ft. Lauderdale, Florida 147 HNL Honolulu International Airport Honolulu, Hawaii 148 HOU William P. Hobby Airport Houston, Texas 149 IAD Washington Dulles International Airport Washington, DC 150 IAH George Bush Intercontinental Airport Houston, Texas	139	CVG	Cincinnati/Northern Kentucky International Airport	Cincinnati, Ohio
142 DEN Denver International Airport Denver, Colorado 143 DFW Dallas Forth Worth International Airport Dallas, Texas 144 DTW Detroit Metropolitan Wayne County Airport Detroit, Michigan 145 EWR Newark Liberty International Airport Newark, New Jersey 146 FLL Fort Lauderdale Hollywood International Airport Ft. Lauderdale, Florida 147 HNL Honolulu International Airport Honolulu, Hawaii 148 HOU William P. Hobby Airport Houston, Texas 149 IAD Washington Dulles International Airport Washington, DC 150 IAH George Bush Intercontinental Airport Houston, Texas	140	DAL	Dallas Love Field Airport	Dallas, Texas
143 DFW Dallas Forth Worth International Airport Dallas, Texas 144 DTW Detroit Metropolitan Wayne County Airport Detroit, Michigan 145 EWR Newark Liberty International Airport Newark, New Jersey 146 FLL Fort Lauderdale Hollywood International Airport Ft. Lauderdale, Florida 147 HNL Honolulu International Airport Honolulu, Hawaii 148 HOU William P. Hobby Airport Houston, Texas 149 IAD Washington Dulles International Airport Washington, DC 150 IAH George Bush Intercontinental Airport Houston, Texas	141	DCA	Ronald Reagan Washington National Airport	Washington, DC
144 DTW Detroit Metropolitan Wayne County Airport Detroit, Michigan 145 EWR Newark Liberty International Airport Newark, New Jersey 146 FLL Fort Lauderdale Hollywood International Airport Ft. Lauderdale, Florida 147 HNL Honolulu International Airport Honolulu, Hawaii 148 HOU William P. Hobby Airport Houston, Texas 149 IAD Washington Dulles International Airport Washington, DC 150 IAH George Bush Intercontinental Airport Houston, Texas	142	DEN	Denver International Airport	Denver, Colorado
145 EWR Newark Liberty International Airport Newark, New Jersey 146 FLL Fort Lauderdale Hollywood International Airport Ft. Lauderdale, Florida 147 HNL Honolulu International Airport Honolulu, Hawaii 148 HOU William P. Hobby Airport Houston, Texas 149 IAD Washington Dulles International Airport Washington, DC 150 IAH George Bush Intercontinental Airport Houston, Texas	143	DFW	Dallas Forth Worth International Airport	Dallas, Texas
146 FLL Fort Lauderdale Hollywood International Airport Ft. Lauderdale, Florida 147 HNL Honolulu International Airport Honolulu, Hawaii 148 HOU William P. Hobby Airport Houston, Texas 149 IAD Washington Dulles International Airport Washington, DC 150 IAH George Bush Intercontinental Airport Houston, Texas	144	DTW	Detroit Metropolitan Wayne County Airport	Detroit, Michigan
147 HNL Honolulu International Airport Honolulu, Hawaii 148 HOU William P. Hobby Airport Houston, Texas 149 IAD Washington Dulles International Airport Washington, DC 150 IAH George Bush Intercontinental Airport Houston, Texas	145	EWR	Newark Liberty International Airport	Newark, New Jersey
148 HOU William P. Hobby Airport Houston, Texas 149 IAD Washington Dulles International Airport Washington, DC 150 IAH George Bush Intercontinental Airport Houston, Texas	146	FLL	Fort Lauderdale Hollywood International Airport	Ft. Lauderdale, Florida
149 IAD Washington Dulles International Airport Washington, DC 150 IAH George Bush Intercontinental Airport Houston, Texas	147	HNL	Honolulu International Airport	Honolulu, Hawaii
150 IAH George Bush Intercontinental Airport Houston, Texas	148	HOU	William P. Hobby Airport	Houston, Texas
1	149	IAD	Washington Dulles International Airport	Washington, DC
151 IND Indianapolis International Airport Indianapolis, Indiana	150	IAH	George Bush Intercontinental Airport	Houston, Texas
	151	IND	Indianapolis International Airport	Indianapolis, Indiana

North America - United States					
	Code	Airport Name	City, State		
152	JAX	Jacksonville International Airport	Jacksonville, Florida		
153	JFK	New York-John F. Kennedy International Airport	New York, New York		
154	LAS	Las Vegas McCarran International Airport	Las Vegas, Nevada		
155	LAX	Los Angeles International Airport	Los Angeles, California		
156	LGA	LaGuardia International Airport	New York, New York		
157	MCI	Kansas City International Airport	Kansas City, Missouri		
158	MCO	Orlando International Airport	Orlando, Florida		
159	MDW	Chicago Midway Airport	Chicago, Illinois		
160	MEM	Memphis International Airport	Memphis, Tennesse		
161	MIA	Miami International Airport	Miami, Florida		
162	MKE	General Mitchell International Airport	Milwaukee, Wisconsin		
163	MSP	Minneapolis/St. Paul International Airport	Minneapolis, Minnesota		
164	MSY	Louis Armstrong New Orleans International Airport	New Orleans, Louisiana		
165	OAK	Oakland International Airport	Oakland, California		
166	OGG	Kahului Airport	Kahului, Hawaii		
167	OKC	Will Rogers World Airport	Oklahoma City, Oklahoma		
168	OMA	Eppley Airfield	Omaha, Nebraska		
169 170	ONT ORD	LA/Ontario International Airport Chicago O'Hare International Airport	Ontario, California Chicago, Illinois		
170	PBI	Palm Beach International Airport	West Palm Beach, Florida		
171	PDX	Portland International Airport	Portland, Oregon		
172	PHL	Philadelphia International Airport	Philadelphia, Pennsylvania		
173	PHX	Phoenix Sky Harbor International Airport	Phoenix, Arizona		
175	PIT	Pittsburgh International Airport	Pittsburgh, Pennsylvania		
176	PVD	Theodore Francis Green State Airport	Warwick, Rhode Island		
177	RDU	Raleigh-Durham International Airport	Raleigh, North Carolina		
178	RIC	Richmond International Airport	Richmond, Virginia		
179	RNO	Reno/Tahoe International Airport	Reno, Nevada		
180	RSW	Southwest Florida International Airport	South Fort Myers, Florida		
181	SAN	San Diego International Airport	San Diego, California		
182	SAT	San Antonio International Airport	San Antonio, Texas		
183	SDF	Louisville International-Standiford Field	Louisville, Kentucky		
184	SEA	Seattle-Tacoma International Airport	Seattle, Washington		
185	SFO	San Francisco International Airport	San Francisco, California		
186	SJC	Norman Y. Mineta San José International Airport	San José, California		
187	SJU	Luis Muñoz Marín International Airport	San Juan, Puerto Rico		
188	SLC	Salt Lake City International Airport	Salt Lake City, Utah		
189	SMF	Sacramento International Airport	Sacramento, California		
190	SNA	John Wayne Orange County Airport	Costa Mesa, California		
191	STL	St. Louis-Lambert International Airport	St. Louis, Missouri		
192	TPA	Tampa International Airport	Tampa, Florida		
193	TUL	Tulsa International Airport	Tulsa, Oklahoma		
194	TUS	Tucson International Airport	Tucson, Arizona		
		North America - Canada			
	Code	Airport Name	City, Province		
195	YEG	Edmonton International Airport	Edmonton, Alberta		
196	YHZ	Halifax Stanfield International Airport	Halifax, Nova Scotia		
197	YOW	Ottawa Macdonald-Cartier International Airport	Ottawa, Ontario		
198	YQR	Regina International Airport	Regina, Saskatchewan		
199	YUL	Montréal-Pierre Elliott Trudeau International Airport	Montréal, Québec		
200	YVR	Vancouver International Airport	Vancouver, British Columbia		
201	YWG	Winnipeg James Armstrong Richardson International Airport	Winnipeg, Manitoba		
202 203	YYC	Calgary International Airport	Calgary, Alberta		
203	YYJ YYT	Victoria International Airport St. John's International Airport	Victoria, British Columbia St. John's, Newfoundland		
204	YYZ	Toronto Lester B. Pearson International Airport	Toronto, Ontario		



Airports included in the ATRS Airport Benchmarking Report

		Asia Pacific - Major Airport Authoriti	es
	Code	Authority Name	Country
G1	AAI	Airports Authority of India	India
G2	ADG	Airport Development Group	Australia
G3	AOT	Airports of Thailand Public Company Limited	Thailand
G4	APAC	Australia Pacific Airports Corporation	Australia
G5	API	P.T. (Persero) Angkasa Pura I	Indonesia
G6	APII	P.T. (Persero) Angkasa Pura II	Indonesia
G7	KAC	Korea Airports Corporation	Korea
G8	MAHB	Malaysia Airports Holding Behard	Malaysia
G9	QAL	Queensland Airport Limited	Australia

		Europe - Major Airport Authorities	
	Airport Code	Authority Name	Country
G10	ADP	Groupe ADP	France
G11	ADR	Aeroporti di Roma	Italy
G12	AENA	Aeropuertos Espanoles y Navegacion Aerea	Spain
G13	ANA	Aeroportos de Portugal	Portugal
G14	Avinor	Avinor Group	Norway
G15	Berlin	Berlin Airports	Germany
G16	DAA	Dublin Airport Authority	Ireland
G17	Finavia	Finavia Oyj	Finland
G18	Fraport	Fraport AG	Germany
G19	Isavia	Isavia	Iceland
G20	MAG	Manchester Airports Group	United Kingdom
G21	Schiphol	Schiphol Group	The Netherlands
G22	SEA	Societá Enti Aeroportuali (SEA) Aeroporti di Milano	Italy
G23	Swedavia	Swedavia	Sweden
G24	TAV	TAV Airports Holding	Turkey
G25	VINCI	VINCI Airports	France

The ATRS Benchmarking Report consists of three parts:

- Part I provides a summary of the research approach and key results. It contains 9 summary tables and 10 summary charts covering the main aspects of airport operations and management, including labour productivity, soft cost input productivity, residual variable factor productivity, and revenue generation.
- Part II is the main body of the report. It provides over 200 charts and tables comparing most dimensions of airport performance across airports. It also provides comparisons of the status of the airports in terms of traffic volume, number of employees and terminal-airside capacity. A comparison of airport charges including landing and passenger charges is also presented.
- Part III of the report presents a short description of each airport including a section on new development and on recent awards. It also includes information on capacity and traffic (with time series data), airport charges as well as highlights of the current revenue, and profit margin. In addition, a summary of the airport charges is also included.
- This report includes:

205 airports 24 airports groups/authorities



About the ATRS Airport Benchmarking Report

THE REPORT

The main objective of this report is to measure and compare the performance of several important aspects of airport operation including:

- Productivity and Efficiency
- Unit Costs and Unit Competitiveness
- Financial Results
- Airport Charges

The report also examines the relationship between various performance measures and airport characteristics in order to better explain the differences in airport performance.

PRODUCTIVITY AND EFFICIENCY

The report measures and compares a number of partial measures of productivity including labour productivity, capital productivity, and "soft cost input" productivity. These include the typical partial performers such as passengers per employee, passengers per gate etc.

In addition, this report introduces a number of new partial productivity measures including the "soft cost input" productivity. "Soft cost input" productivity, a measure unique to the ATRS Benchmarking Report, is a catch-all input which includes all expenses other than labour and capital and is used primarily to take into account the cost of buying in outsourced services.

The soft cost input account for 28% to 93% of an airports non-capital expenditures, as such, it is extremely important to consider this soft cost in examining airport performance.

UNIT COST AND UNIT COMPETITIVENESS

The report presents a number of unit cost measures. These include measures such as labour cost per passenger, labour cost per aircraft movement, etc. A unit cost index provides a means by which to examine the relationship to various airport characteristics and airport service levels.

FINANCIAL RESULTS

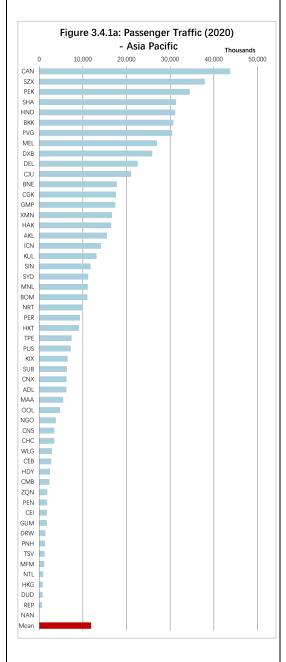
The report presents a number of revenue generation indicators and common financial ratios, including aeronautical revenue per aircraft movement, total revenue per passenger, return on equity, current ratio, return on asset, etc. A yield for total revenue per unit of output is also provided as an overall revenue generation indicator.

AIRPORT CHARGES

One means for airports to derive revenues is through charges associated with aeronautical activities. Aeronautical charges are levied for the use of an airport's runway, apron and terminal facilities. Landing charges, typically based on the weight of the aircraft, terminal (Passenger) charges, generally levied on the number of passengers at time of departure, and aeronautical fee as a whole are compared in the report. Three types of aircraft reflecting different aircraft weight classes are considered: **Boeing 777-300ER, Boeing 767-400, Boeing 737-800, Airbus 321, and CRJ 200**. A breakdown of landing charges by weight categories and passenger charges by boarding passenger is also included.

5

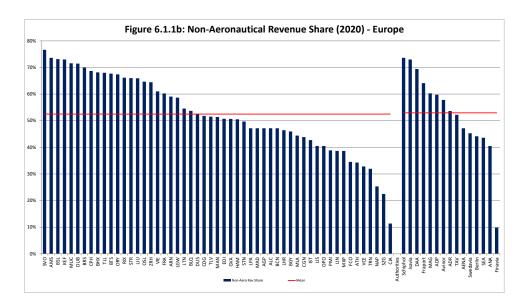
Samples



Airport						%Ehange	%Change
Code	2018	2017	2018	2019	2020	18-20	18-20
CAN	59,732	65,807	69,745	73,379	43,768	-40.4%	-26.7%
SZX PBK	41,971 94,393	45,611 95,786	49,349 100,983	52,932 100,011	37,916 34,514	-28.4% -65.5%	-9.7% -63.4%
SHA	40,460	41,884	43,646	45,638	31,366	-31.3%	-22.5%
HND	80,110	81,854	84,894	81,708	31.195	-51.5% -61.8%	-61.1%
BKK	55,473	99,080	62,149	64,711	30,750	-52.5%	-44.6%
PVG	66,002	70,001	74,006	76,154	30,477	-60.0%	-53.8%
MEL	33,900	35,171	38,100	37,134	27,003	-27.3%	-20.3%
DXB	83,654	88,242	89,149	86,397	25,900	-70.0%	-EB.0%
DEL	57,703	65,692	69,230	67,301	22,584	-66.4%	-60.9%
CJU	29,709 22,685	29,604 22,881	29,455 23,465	31,316 23,783	21,056 17,805	-32.8% -25.1%	-29.1% -21.5%
COK	58,195	61,611	65,668	52,588	17.641	-66.5%	-21.5% -69.7%
GMP	25.043	25,101	24.603	25,448	17,446	-31.4%	-30.3%
XMN	22,738	24,485	26,553	27,413	16,710	-39.0%	-26.5%
HAK	18,804	22,585	24,124	24,217	16,490	-31.9%	-12.3%
AKL	17,260	18,345	20,530	21,112	15,521	-26.5%	-10.1%
KUL	57,765 52,644	62,082	68,260	71,170 62,325	14,144	-80.1% -78.9%	-75.5%
		58,517	99,999		13,156		-75.0%
SYD	99,372 41,091	62,220 43,330	66,300 44,430	62,900 44,429	11,800 11,244	-81.2% -74.7%	-80.1% -72.6%
MNL	39.517	42,022	45,054	47,898	11.146	-76.7%	-71.8%
BOM	45,154	48,496	49,877	45,873	11,055	-75.9%	-75.5%
NET	39,054	40,687	38,797	39,541	9,812	-75.2%	-74.9%
PER	12,556	13,622	13,700	14,810	9,346	-36.9%	-25.6%
HKT	14,722	16,230	18,267	17,849	9,091	-49.1%	-38.2%
TPE	42,296	44,879	46,535	48,689	7,438	-84.7%	-82.4%
PUS MX	14,903 25,720	15,404 28,804	17,065 28,860	16,932 28,663	7,236 6,534	-57.3% -77.2%	-51.4% -74.6%
SUB	19,486	18,997	19,794	15,807	6,360	-69.8%	-67.4%
CNX	9,208	9.973	10,809	11,321	6,272	-44.6%	-31.9%
ADL	7,893	8,090	8,494	8,527	6,246	-26.8%	-20.9%
MAA	18,362	20,361	22,487	22,267	5,496	-75.3%	-70.1%
OOL	6,273	6,479	6,486	6,440	4,810	-25.3%	-23.3%
NGO CNS	10,843 4,711	11,540 4,941	12,015 4,944	12,590 4,778	3,813 3,472	-89.7% -27.3%	-64.8% -25.3%
CHC	6.306	6,733	6.870	6926	3,472	-27.3% -50.2%	-45.3%
WLG	5,965	6.145	6.145	6.146	2,989	-51.7%	-50.2%
CEB	8,831	10,051	11,378	12,662	2,749	-78.3%	-68.9%
HDY	3,871	4,347	4,266	4,028	2,478	-38.5%	-36.0%
CMB	9,486	9,968	12,096	9,959	2,375	-76.2%	-74.9%
20N	1,780	1,892	2,242	2,393	1,871	-21.8%	5.1%
PEN	6,684 1,999	7,232 2,385	7,790 2,805	8,319 2,963	1,826 1,796	-78.0% -39.2%	-72.7% -8.3%
GUM	3,354	3.700	3,407	3,600	1.750	-51.4%	-47.8%
DRW	2,216	2,246	2,190	2,047	1,440	-29.6%	-35.0%
PNH	3,389	4,240	5,423	6,029	1,331	-77.9%	-60.7%
TSV	1,530	1,590	1,610	1,631	1,249	-23.4%	-18.4%
MFM	6,629	7,166	8,260	9,611	1,173	-87.8%	-82.3%
NTL HKO	1,257	1,265	1,273	1,277	927 800	-27.4% -27.4%	-26.2% -98.9%
DUD	70,500 910	72,866 973	75,100 1,031	60,900 1,077	800 794	-98.7% -26.4%	-98.9% -12.8%
REP	3,478	4,209	4,480	3,926	619	-84.2%	-82.2%
NAN	2,047	2,292	2,436	2,485	_		
Mean	27,889	29,404	30,833	30,520	11,815	-64.2%	48.1%
AAI	264,970	308,750	341,449	344,700	115,380	-66.5%	-56.5%
AOT	119,924	133,116	140,472	141,871	72,638	-48.8%	-39.4%
KAC	78,524	82,073	82,258	86,506	52,978	-38.8%	-32.5%
APII	95,175	105,484	111,454	90,779	35,870	-60.5%	-62.3%
API MAHB	84,756	89,752	90,881	81,533	32,711	-69.9%	-61.4%
QAL	88,977 8,109	96,637 8,276	99,102 8,500	105,263 8,310	25,761 6.266	-75.5% -24.6%	-71.0% -22.7%
APAC	35.200	36,500	38,100	37,300	6,170	-83.5%	-82.5%
ADG	2,836	2,927	2,830	2,670	2,216	-17.0%	-21.8%
Mean	88,497	96,948	101,872	99,881	38,888	-62.8%	-60.0%

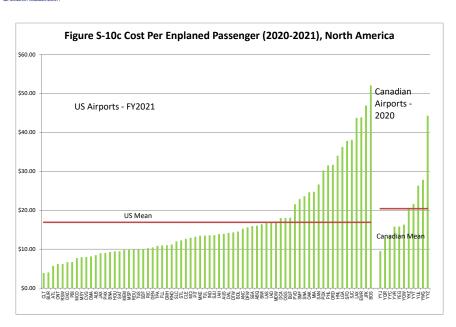


Non-Aeronautical Revenue Share



ATRS

Airport Charges - Cost per enplaned Passenger





Part III – Sample Airport Profile

Christchurch International Airport

CHC

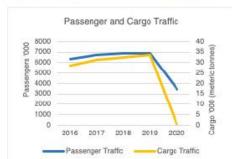
Fiscal Year-End: June 30, 2020

Christchurch, New Zealand

Website: http://www.christchurch-airport.co.nz/airport

Ownership & Management

Christchurch International Airport is operated by Christchurch International Airport Limited and is owned by Christchurch City Holdings Limited (75%) and New Zealand Government (25%).



Runways	2	
Terminal Size (m²)	77,591	
Gates	33	Ģ
Employees	7000	-8

Traffic

% International PAX	12.82%	
Dominant Carrier	Air NZ	- 8
% of Dominant Carrier	86.37%	- 8
Movements per Day	217	
Daily Gate Utilization (PAX)	286	- 3

Airport Charges

Airfield price -Passenger Aircraft	4.93	
Airfield price -Non-Passenger Aircraft	8.54	
Passenger charge (NZD)	111	
Terminal Price -International /PAX	7.82	
Terminal Price - Domestic /PAX	7.37	
Terminal price -Regional /PAX	2.81	

Notes

Effective date as of 3/21/2020

Notes and Observations

- Christchurch International Airport Introdoues on demand receipt within car parks. (MAY 2022)
- Christchurch International Airport services dufy manager John Jones said the airport's roving robot Pepper, which operated for months during the coronavirus pandemic, "reduced the number of our people operating in the area" and "gave travellers caim, clear, and consistent information in an interesting way" (APR 2022).





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