

# Airport On-time Departure Performance Report (H1, 2018)

## Abstract

In the first half of 2018, ITM tops the global airports chart with an on-time departure rate of 94.81 percent; URC, XIY and CKG are the best three airports for on-time departure performance among airports with a capacity of over 10 million passengers in mainland China.

In the first half of 2018, Itami Airport tops the large airports chart with an on-time departure rate of 94.81 percent and an average delay of 12.38 minutes.

Ranking	IATA Code	Airports	Country/Region	Flight Departures	On-time Departure Performance	Average Departure Delay (minutes)
1	ITM	Itami	JP	36057	94.81%	12.38
2	CTS	New Chitose	JP	40384	93.09%	8.15
3	HND	Haneda	JP	123814	87.98%	19.43
4	PDX	Portland	US	46737	87.90%	16.25
5	HNL	Honolulu	US	37471	87.72%	19.15
6	DOH	Doha	QA	48060	86.57%	19.50
7	CGH	Congonhas	BR	45543	85.97%	17.24
8	KIX	Osaka	JP	44013	85.44%	19.63
9	FUK	Fukuoka	JP	47824	85.36%	19.08
10	BNE	Brisbane	AU	46711	85.13%	19.41

Source: VariFlight

Figure 1: World's TOP10 most punctual major airports (Jan-Jun, 2018)

Note: Reporting airports are those whose actual monthly departure flights are over 6000 in the first half of 2018.



## Global Medium-sized Airports

In the first half of 2018, Sendai Airport delivers the best on time performance among all medium-sized airports worldwide with a punctuality of 93.85 percent and an average delay of 11.92 minutes.

Ranking	IATA Code	Airports	Country/Region	Flight Departures	On-time Departure Performance	Average Departure Delay (minutes)
1	SDJ	Sendai	JP	13042	93.85%	11.92
2	CMN	Mohammed V International	MA	19735	92.81%	9.56
3	KHH	Kaohsiung	TW, CN	14290	92.61%	11.82
4	NGO	Nagoya	JP	25901	91.79%	15.19
5	TFN	Tenerife	ES	17044	91.54%	12.64
6	TSA	Taipei Songshan	TW, CN	13327	90.95%	14.67
7	KOJ	Kagoshima	JP	18747	90.37%	15.44
8	OGG	Kahului	US	18642	89.23%	14.69
9	ADL	Adelaide	AU	19077	89.20%	15.64
10	POA	Porto Alegre	BR	16451	89.06%	14.26

Source: VariFlight

Figure 2: World's TOP10 most punctual medium-sized airports (Jan-Jun, 2018)

Note: Reporting airports are those whose actual monthly departure flights are between 2000 to 6000 in the first half of 2018.



## APAC: Major Airports

In the first half of 2018, Itami Airport cements its position at the forefront of all major airports in Asia-Pacific region with an on-time departure rate of 94.81 percent. In mainland China, Urumqi Diwopu (URC) ranks seventh in the list with an on-time departure rate of 84.21 percent, becoming the most punctual airport in China.

Ranking	IATA Code	Airports	Country/Region	Flight Departures	On-time Departure Performance	Average Departure Delay (minutes)
1	ITM	Itami	JP	36057	94.81%	12.38
2	CTS	New Chitose	JP	40384	93.09%	8.15
3	HND	Haneda	JP	123814	87.98%	19.43
4	KIX	Osaka	JP	44013	85.44%	19.63
5	FUK	Fukuoka	JP	47824	85.36%	19.08
6	BNE	Brisbane	AU	46711	85.13%	19.41
7	URC	Urumqi Diwopu	CN	42167	84.21%	23.14
8	XIY	Xi'an Xianyang	CN	79768	82.10%	23.38
9	CKG	Chongqing Jiangbei	CN	71823	81.02%	22.76
10	AKL	Auckland	NZ	39970	80.35%	22.23
11	OKA	Naha	JP	36157	80.28%	20.46
12	MEL	Melbourne	AU	58463	79.02%	23.13
13	SHA	Shanghai Hongqiao	CN	64995	78.41%	26.33
14	CTU	Chengdu Shuangliu	CN	84953	77.08%	27.73
15	KMG	Kunming Changshui	CN	90391	76.78%	28.38
16	SYD	Sydney Kingsford Smith	AU	76997	76.71%	24.70
17	BKK	Suvarnabhumi	TH	89178	76.07%	24.72
18	CSX	Changsha Huanghua	CN	44445	74.75%	29.22
19	WUH	Wuhan Tianhe	CN	44754	74.55%	28.97
20	HAN	Noi Bai	VN	39040	74.26%	26.65

Source: VariFlight

Figure 3: TOP20 best airports in Asia-Pacific for on-time departures (Jan-Jun, 2018)

Note: Reporting airports are those whose actual monthly departure flights are over 6000 in the first half of 2018.



## APAC: Medium-sized Airports

In the first half of 2018, Sendai Airport (SDJ) ranks first among medium-sized airports in the Asia-Pacific region with an on-time departure rate of 93.85 percent. In mainland China, Xining Caojiapu (XNN) ranks twelfth in the list with an on-time departure rate of 84.50 percent.

Ranking	IATA Code	Airports	Country/Region	Flight Departures	On-time Departure Performance	Average Departure Delay (minutes)
1	SDJ	Sendai	JP	13042	93.85%	11.92
2	KHH	Kaohsiung	TW, CN	14290	92.61%	11.82
3	NGO	Nagoya	JP	25901	91.79%	15.19
4	TSA	Taipei Songshan	TW, CN	13327	90.95%	14.67
5	KOJ	Kagoshima	JP	18747	90.37%	15.44
6	ADL	Adelaide	AU	19077	89.20%	15.64
7	PER	Perth	AU	24700	88.18%	17.71
8	WLG	Wellington	NZ	19644	87.74%	15.88
9	CHC	Christchurch	NZ	17397	87.42%	16.21
10	CNX	Chiang Mai	TH	18950	87.28%	14.65
11	PUS	Busan	KR	27872	85.07%	19.31
12	XNN	Xining Caojiapu	CN	12118	84.50%	18.59
13	LJG	Lijiang Sanyi	CN	13865	83.69%	18.34
14	INC	Yinchuan Hedong	CN	17881	82.31%	20.52
15	GMP	Gimpo	KR	35522	79.80%	26.44
16	LHW	Lanzhou Zhongchuan	CN	26555	79.20%	22.66
17	HKT	Phuket	TH	29287	79.09%	21.28
18	DLC	Dalian Zhoushuizi	CN	34458	78.73%	26.11
19	TNA	Jinan Yaoqiang	CN	30136	78.45%	24.44
20	BKI	Sabah	MY	17324	75.90%	23.29

Source: VariFlight

Figure 4: TOP20 best airports in Asia-Pacific for on-time departures (Jan-Jun, 2018)

Note: Reporting airports are those whose actual monthly departure flights are between 2000 to 6000 in the first half of 2018.



## Mainland China: Airports with a Capacity over 10 Million Passengers

Ranking	IATA Code	Airports	Flight Departures	On-time Departure Performance	YoY	Average Departure Delay (minutes)
1	URC	Urumqi Diwopu	42167	84.21%	15.83%	23.14
2	XIY	Xi'an Xianyang	79768	82.10%	5.44%	23.38
3	CKG	Chongqing Jiangbei	71823	81.02%	3.90%	22.76
4	LHW	Lanzhou Zhongchuan	26555	79.20%	2.12%	22.66
5	DLC	Dalian Zhoushuizi	34458	78.73%	2.71%	26.11
6	TNA	Jinan Yaoqiang	30136	78.45%	8.21%	24.44
7	SHA	Shanghai Hongqiao	64995	78.41%	27.54%	26.33
8	CTU	Chengdu Shuangliu	84953	77.08%	5.26%	27.73
9	KMG	Kunming Changshui	90391	76.78%	9.93%	28.38
10	TYN	Taiyuan Wusu	25987	75.45%	4.73%	30.45
11	CSX	Changsha Huanghua	44445	74.75%	8.75%	29.22
12	WUH	Wuhan Tianhe	44754	74.55%	5.85%	28.97
13	HRB	Harbin Taiping	35645	74.35%	5.27%	29.30
14	HET	Hohhot Baita	24472	74.33%	3.87%	28.63
15	HAK	Haikou Meilan	41177	74.18%	7.97%	28.86
16	SZX	Shenzhen Bao'an	80822	73.50%	9.93%	32.18
17	PVG	Shanghai Pudong	113784	73.09%	24.75%	30.39
18	CGO	Zhengzhou Xinzheng	49540	73.06%	3.32%	30.87
19	KWE	Guiyang Longdongbao	38120	72.54%	5.73%	29.91
20	KHN	Nanchang Changbei	26714	72.30%	3.31%	31.47
21	SYX	Sanya Phoenix	29935	70.78%	7.67%	32.43
22	CAN	Guangzhou Baiyun	112112	70.74%	8.06%	32.27
23	TAO	Qingdao Liuting	43189	70.25%	3.78%	30.41
24	CGQ	Changchun Longjia	22381	69.40%	6.78%	34.34
25	TSN	Tianjin Binhai	41150	69.35%	8.15%	35.51
26	HGH	Hangzhou Xiaoshan	63333	68.97%	19.59%	36.19
27	PEK	Beijing Capital	145917	68.44%	19.28%	31.96
28	SHE	Shenyang Taoxian	33006	67.70%	2.61%	34.87
29	NKG	Nanjing Lukou	49933	66.79%	14.18%	38.56
30	FOC	Fuzhou Changle	26970	66.73%	7.75%	34.79
31	NNG	Nanning Wuxu	26850	66.01%	6.46%	36.40
32	XMN	Xiamen Gaoqi	47316	62.59%	13.04%	37.08

In the first half of 2018, Urumqi Diwopu (URC) (84.21 percent), Xi'an Xianyang (XIY) (82.10 percent) and Chongqing Jiangbei (CKG) (81.02 percent) are the TOP3 airports with the best OTP among the airports with a capacity of over 10 million passengers in mainland China. Compared with last year, Shanghai Hongqiao (SHA), Shanghai Pudong (PVG) and Hangzhou Xiaoshan (HGH) are the three airports enjoying the most rapid YoY growth, respectively are 27.54 percent, 24.75 percent and 19.59 percent.

Source: VariFlight

Figure 5: China's airports on-time departure performance (TOP32, airports with a capacity of over 10 million passengers, Jan-Jun, 2018)



## Mainland China---Airports with a Capacity of 2 Million to 10 Million Passengers

Ranking	IATA Code	Airports	Flight Departures	On-time Departure Performance	YoY	Average Departure Delay (minutes)
1	HLD	Hulun Buir Dongshan	3760	87.72%	3.49%	15.99
2	KHG	Kashgar	4021	85.29%	23.33%	19.12
3	XNN	Xining Caojiapu	12118	84.50%	0.97%	18.59
4	LJG	Lijiang Sanyi	13865	83.69%	5.65%	18.34
5	INC	Yinchuan Hedong	17881	82.31%	4.55%	20.52
6	DSN	Ordos	5183	81.03%	-0.77%	22.19
7	JHG	Xishuangbanna	8915	80.12%	0.98%	20.78
8	BAV	Baotou Erliban	4540	77.65%	6.71%	25.82
9	ZHA	ZhanJiang	5761	77.33%	6.14%	24.93
10	LXA	Lhasa Kongga	8880	76.05%	6.02%	26.86
11	KWL	Guilin Liangjiang	16651	74.69%	6.73%	26.91
12	YIH	Yichang Sanxia	5734	71.88%	-3.48%	29.65
13	ZUH	Zhuhai Jinwan	20055	70.83%	19.85%	33.80
14	NAY	Beijing Nanyuan	10828	69.59%	-1.01%	30.68
15	SJW	Shijiazhuang Zhengding	21106	67.16%	4.77%	35.65
16	NGB	Ningbo Lishe	19806	67.00%	16.82%	32.63
17	WEH	WeiHai	4916	66.89%	-2.43%	32.28
18	SWA	Jieyang Chaoshan	12006	66.35%	0.64%	33.91
19	HFE	Hefei Xinqiao	20726	63.81%	1.62%	39.22
20	WNZ	Wenzhou Longwan	20372	63.14%	8.36%	35.82
21	WUX	Sunan Shuofang	13108	59.54%	14.47%	37.36
22	YNT	Yantai Penglai	17570	59.33%	-10.33%	40.91
23	JJN	QUANZHOU JINJIANG	14177	58.16%	2.75%	41.80
24	NTG	Nantong Xingdong	5919	51.02%	0.51%	45.44
25	MIG	Mianyang Nanjiao	7236	49.94%	11.26%	47.81
26	CZX	Changzhou Benniu	6229	47.34%	2.10%	46.73

In the first half of 2018, Hulun Buir Dongshan (HLD) (87.72 percent), Kashgar (KHG) (85.29 percent) and Xining Caojiapu (XNN) (84.50 percent) are the TOP3 airports with the best OTP among the airports with a capacity of 2 Million to 10 Million Passengers in mainland China. Compared with last year, ), Kashgar (KHG), Zhuhai Jinwan (ZUH) and Ningbo Lishe (NGB) are the three airports enjoying the most rapid YoY growth, respectively are 23.33 percent, 19.85 percent and 16.82 percent.

Source: VariFlight

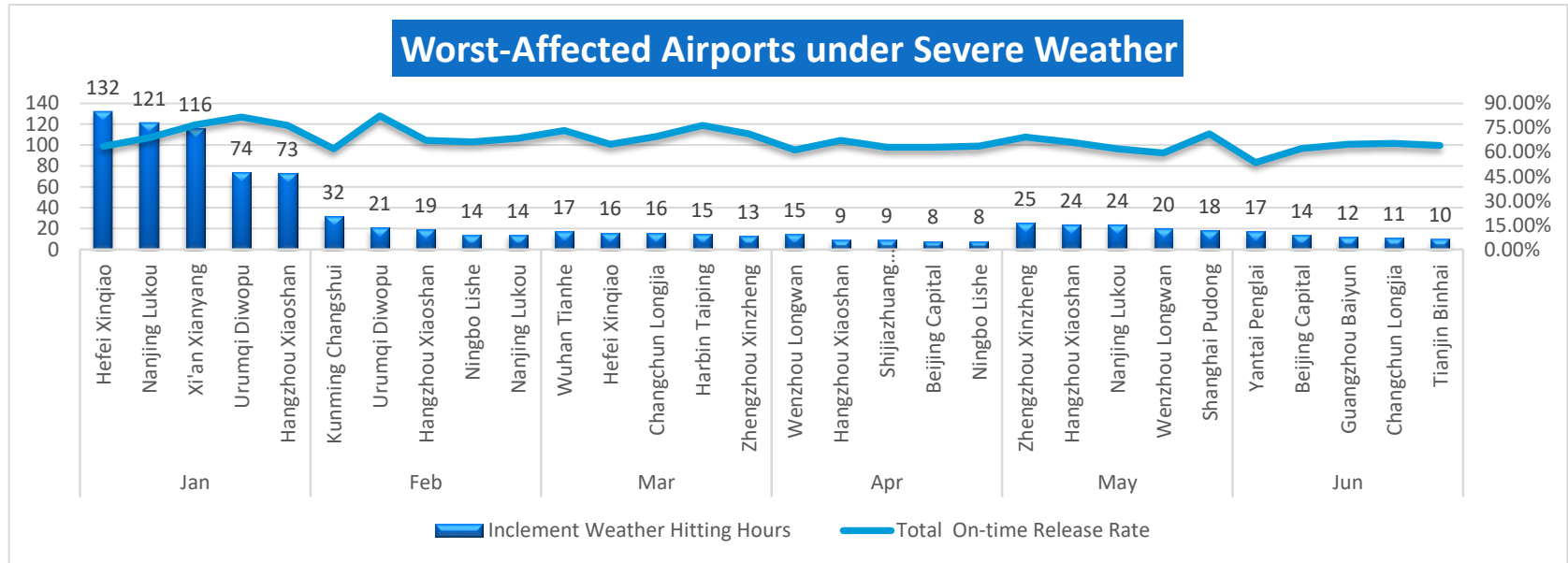
Figure 6: China's airports on-time departure performance (TOP26, airports with a capacity of 2 Million to 10 Million Passengers, Jan-Jun, 2018)





## Worst-Affected Airports under Severe Weather

In the first half of 2018, airports in mainland China are most affected by severe weather in January among which Hefei Xinqiao (HFE) suffers 132 hours. Relatively, April witnesses the least impact under severe weather. Hangzhou Xiaoshan (HGH) suffers the most times from severe weather, respectively in January, February, April and May.



Source: VariFlight

Figure 7: China's worst-affected airports for normal flight release rate (Jan-Jun, 2018)

# Notes from editors

source: data.VariFlight.com

Period: Jan 1- Jun 30, 2018

Flights: Commercial air passenger flights only. Cargo aircrafts, corporate jets and general aviation are excluded.

Actual departure flights: Departure flights that have actual take-off time and actual departure time in VariFlight database. Canceled flights are excluded.

Actual arrival flights: Arrival flights that have actual take-off time and actual departure time in VariFlight database. Canceled flights are excluded.

Large airports: Airports with above 6000 actual departure flights monthly.

Medium-sized airports: Airports with 2000 to 6000 actual departure flights monthly.

Airports in Mainland China: Airports in mainland China can be divided into three classes with a capacity of over 10 million passengers, 2 million to 10 million passengers and less than 2 million passengers respectively, in accordance with the passenger throughput published by Civil Aviation Administration of China (CAAC), 2017.

Big Airlines: Airlines whose actual daily arrival flights are over 400.

Medium-sized Airlines: Airlines those whose actual daily arrival flights are between 200 to 400.

On-time departure flights:  $ATD-STD < 30\text{mins}$

On-time arrival flights:  $ATA-STA < 30\text{mins}$

On-time departure rate:  $\text{On-time Departure Flights} / \text{Actual Departure Flights} * 100\%$

On-time arrival rate:  $\text{On-time Arrival Flights} / \text{Actual Arrival Flights} * 100\%$

Average departure delay time:  $\text{Total Departure Delay Time} / \text{Actual Departure Flights}$

(Departure delay time of a single flight:  $ATD-STD$ . If a flight departs ahead of the scheduled time of departure, then the result is zero.)

Average arrival delay time:  $\text{Total Arrival Delay Time} / \text{Actual Arrival Flights}$

(Arrival delay time of a single flight:  $ATA-STA$ . If a flight arrives ahead of the scheduled time of arrival, then the result is zero.)



## Introduction

VariFlight Big Data Research Institute, the professional body for data analytics of VariFlight, uncovers hidden insights of civil aviation industry. Research reports such as *Global Airport On-time Departure Performance Report*, *Global Airline On-time Arrival Performance Report*, *Chinese Airport Development Report* and *China's Civil Aviation Market Briefing* are regularly published for airlines, airports, aircraft manufacturers to extract insights for making better informed decisions.

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