

Airline On-Time Reliability Report

2024-01-01 to 2024-01-31 | 10 Airports | 8 Carriers

Traceability: Synthetic flights (BTS format) + NOAA CDO (real) | 100.0K flights | 1,536 weather records | Quality: 97.5% | 2026-02-01 07:19 UTC

DEMO DATA: Flight records are synthetic for portfolio demonstration

Reliability Metrics

67.8%

ON-TIME RATE

27.4

AVG DELAY (MIN)

63

P90 DELAY (MIN)

2.01%

CANCEL RATE

Carrier Performance

Rank	Carrier	On-Time	Avg Delay	Cancel Rate	Flights
1	F9	68.4%	29.9 min	2.00%	12,571
2	DL	68.3%	30.4 min	2.00%	12,296
3	AS	68.0%	30.4 min	2.00%	12,354
4	UA	67.8%	30.4 min	2.00%	12,553
5	B6	67.7%	30.0 min	2.00%	12,526
6	WN	67.5%	30.1 min	2.00%	12,711
7	AA	67.4%	30.3 min	2.00%	12,303
8	NK	67.1%	31.7 min	2.00%	12,661

Weather Attribution

Condition	Flights	Avg Delay	Cancel Rate
Normal Weather	45,728	26.7 min	2.06%
Severe Weather	44,180	27.0 min	1.94%
Delta (Weather Impact)	-	+0.3 min	-

Quality Gates

Gate	Status	Score	Threshold
------	--------	-------	-----------

Timezone	✓ PASS	100.0%	95%
Join Coverage	✓ PASS	89.9%	80%
Outliers	✓ PASS	100.0%	95%
Delay Codes	✓ PASS	100.0%	75%
Completeness	✓ PASS	100.0%	95%

Report prepared by Mboya Jeffers | MboyaJeffers9@gmail.com

Data Sources: Synthetic flights (BTS format) + NOAA CDO API | Generated: 2026-02-01 07:19 UTC