NextGen City Pairs - Boston

When a traveler starts to plan a trip or when an airline operator starts to plan air service, they will look at the points of origin and destination for flights. These points of origin and destination are thought of in terms of pairs of cities or pairs of metroplexes. In measuring city-pair performance, the NPS website looks at flights that either originate or conclude at a specific metroplex, such as the New York/Philadelphia metroplex to Southern California. For each city pair, an origin airport (for example, Newark Liberty International, EWR) and a destination airport (for example, Los Angeles International, LAX) are listed. The city pairs are unidirectional (only measuring EWR to LAX in the example above) and the NPS website reports them as recommended by the NextGen Advisory Committee (NAC).

All results are reported by Fiscal Year (FY), October 1 — September 30.

Flights can depart outside of the reportable hours, but must arrive during the reportable hours at the destination airport. For a list of the reportable hours for each airport, please see the Reference Guide.

Average Airborne Time (FY) *Minutes* **During reportable hours at the destination airport, the average Airborne Time for flights between the selected city pair. The reportable hours vary by airport and the results are reported by fiscal year. Additional reportable hour information can be found in the airport information section of the Reference Guide.**

Origin	Destination	2009	2010	2011	2012	2013
BOS	BWI	67.0	65.1	66.4	66.7	66.4
BOS	DCA	73.1	71.7	71.2	70.9	71.1
BOS	EWR	54.4	52.2	53.5	53.5	52.8
BOS	IAD	73.8	72.5	74.4	74.0	73.8
BOS	JFK	47.2	46.2	46.1	44.9	45.2

Effective Gate-to-Gate Time (FY) *Average Minutes per Flight* **During reportable hours at the destination airport, the difference between the Actual Gate-In Time at the destination airport and the Scheduled Gate-Out Time at the origin airport. Flights may depart outside reportable hours, but must arrive during them. The reportable hours vary by airport and the results are reported by FY.**

Origin	Destination	2009	2010	2011	2012	2013
BOS	BWI	101.5	95.1	100.6	95.4	99.7
BOS	DCA	97.2	95.0	99.9	92.1	96.4
BOS	EWR	118.1	104.4	108.3	101.3	98.3
BOS	IAD	105.9	104.3	109.4	105.8	106.8
BOS	JFK	94.8	88.9	93.2	80.8	85.8

Airborne Distance (FY) *Nautical Miles* **During reportable hours at the destination airport, the average airborne distance of flights between the selected city pair. The reportable hours vary by airport and the results are reported by fiscal year. Additional reportable hour information can be found in the airport information section of the Reference Guide.**

Origin	Destination	2009	2010	2011	2012	2013
BOS	BWI	[1]	[1]	364.4	365.9	363.9
BOS	DCA	[1]	[1]	396.5	398.7	396.4
BOS	EWR	[1]	[1]	250.9	249.2	247.5
BOS	IAD	[1]	[1]	414.9	415.2	412.7
BOS	JFK	[1]	[1]	218.8	218.3	218.8

[1] No data available.

Efficiency:

As described by ICAO; *efficiency addresses the operational and economic cost-effectiveness of gate-to-gate flight operations from a single-flight perspective. In all phases of flight, airspace users want to depart and arrive at the times they select and fly the trajectory they determine to be optimum.*

Airborne Time Predictability (FY) *Minutes* **During reportable hours at the destination airport, the difference between the 85th and 15th percentiles of Airborne Time for flights between the selected city pair. The reportable hours vary by airport and the results are reported by FY. Additional reportable hour information can be found in the airport information section of the Reference Guide.**

Origin	Destination	2009	2010	2011	2012	2013
BOS	BWI	12	10	11	12	12
BOS	DCA	16	15	14	12	14
BOS	EWR	15	12	12	11	12
BOS	IAD	12	11	13	12	12
BOS	JFK	12	10	10	9	9

Effective Gate-to-Gate Time Predictability (FY) *Minutes* **During reportable hours, the difference between the 85th and 15th percentiles of the Effective Gate-to-Gate Time metric. The reportable hours vary by airport and the results are reported by FY. Additional percentile and reportable hour information can be found in the Reference Guide.**

Origin	Destination	2009	2010	2011	2012	2013
BOS	BWI	43	35	40	30	38
BOS	DCA	36	33	39	27	33
BOS	EWR	104	72	74	61	60

BOS	IAD	40	37	46	35	39
BOS	JFK	66	54	62	39	49

Predictability:
As described by ICAO: *Predictability refers to the ability of airspace users and ATM service providers to provide consistent and dependable levels of performance.*

Metroplex Map

Core Airports within Boston Metroplex

BOS

Boston - General Edward Lawrence Logan Airport