

USDOT Airline Passenger 40% Origin & Destination Survey

Data Users Meeting (Virtual)

Monday, August 4th, 2025



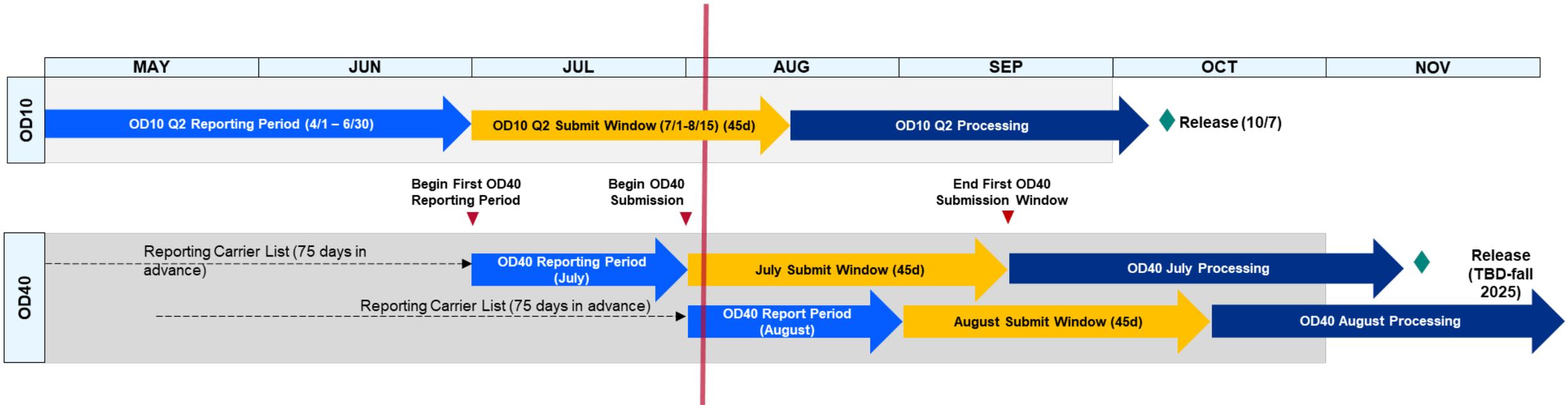
U.S. Department of Transportation
Office of the Secretary of Transportation

Bureau of Transportation Statistics

Agenda

1. OD10 (Origin–Destination Survey of Airline Passenger Traffic) and OD40 (Origin-Destination Survey of Airline Passenger Traffic 40 Percent Survey) Timelines
2. OD10 vs OD40 Reporting Clarification
3. Data Output Format Updates
4. Questions and Discussion

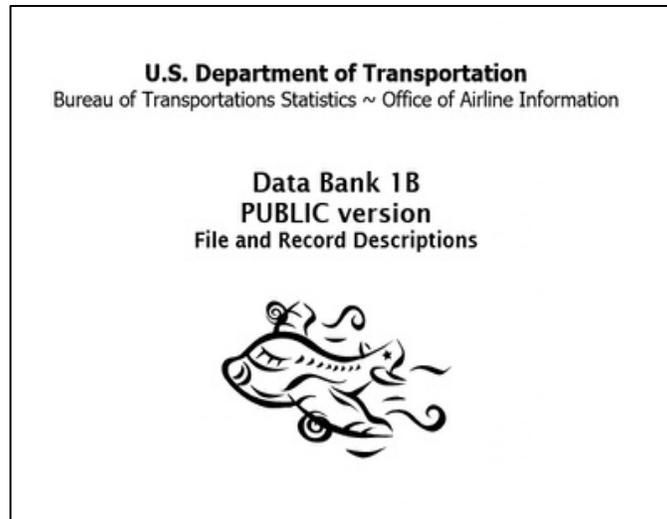
OD10 and OD40 Timelines



We are here
in the
process

Q2 = second quarter; TBD = to be determined.

Output Tables and File Format



New DB1C (OD40) Output tables to be posted on the BTS website and files provided to customers

- New Data Elements contained
- OD40 outputs will be available on the bookstore starting Fall 2025
<https://www.bts.gov/topics/airlines-and-airports/origin-and-destination-survey-data>
- Access to the OD10 via Restricted Data Access form will carry over to the OD40 output
- Working on OD10 & OD40 Data Comparability which will be provided after 3rd Quarter of 2025

OD40 Output Tables (Draft)

Single Passenger Itinerary

TICKET		MARKET			COUPON			SEGMENT (Proposed)			
ItinID	20241338954	ItinID	20241338954	20241338954	ItinID	20241338954	20241338954	ItinID	20241338954	20241338954	20241338954
Coupons	2	MktID	2024133895401	2024133895402	MktID	2024133895401	2024133895402	MktID	2024133895401	2024133895401	2024133895401
Year	2024	MktCoupons	1	1	SeqNum	1	2	SegmentID*	202413389540101	202413389540102	202413389540103
Quarter	1	Year	2024	2024	Coupons	2	2	SeqNum	1	1	1
Month*	3	Quarter	1	1	Year	2024	2024	Year	2024	2024	2024
Origin	DCA**	Month*	3	3	Quarter	1	1	Quarter	1	1	1
OriginCountry	US**	Origin	DCA**	ORD**	Month*	3	3	Month*	3	3	3
IssuingCarrier*	AA	Dest	ORD**	DCA**	Origin	DCA**	ORD**	Origin	DCA**	CMH**	PIT**
RpCarrier	AA	DwellTimeGroup*	9999	Null	Dest	ORD**	DCA**	Dest	CMH**	PIT**	ORD**
MktCarrierGroupString*	AA:AA	AirportGroup	DCA:ORD	ORD:DCA	DwellTime*	9999	Null	Passengers	1	1	1
OpCarrierGroupString*	AA:AA	SegmentViaGroup*	DCA:CMH:PIT:ORD	Null	Viapoint*	CMH:PIT**	--	MktCarrier*	AA	AA	AA
Passengers	1	MktCarrierGroup*	AA	AA	Trip_Break	X	X	OpCarrier	AA	AA	AA
ItinYield*	0.2032193	OpCarrierGroup	AA	AA	CouponType	A	A	RpCarrier	AA	AA	AA
ItinFare	303	RpCarrier	AA	AA	MktCarrier*	AA	AA	Seg_Distance*	323	145	411
Tax*	63	IssuingCarrier*	AA	AA	OpCarrier	AA	AA				
TotalDistance*	1491	MktCarrier	AA	AA	RpCarrier	AA	AA				
DistanceGroup	3	OpCarrier	AA	AA	Passengers	1	1				
MilesTraveled*	1491	Passengers	1	1	TotalDistance*	879	612				
GroundDistance*	Null	MktFare	217	151.5	Trip_Break_Prelim*	X	X				
PurchaseWindowGroup*	2290	MktTax*	31.5	31.5	MilesTraveled*	879	612				
		TotalDistance*	879	612	NonStopMiles	612	612				
		MktDistanceGroup	2	2							
		MilesTraveled*	879	612							
		NonStopMiles	612	612							
		Nonstop*	0	1							

*Field appears in all tables.
 **Airport code.
 --Not applicable.
 DCA = Ronald Reagan Washington National Airport; AA = American Airlines; ORD = Chicago O'Hare International Airport; CMH = John Glenn Columbus International Airport; PIT = Pittsburgh International Airport;
 X = X trip break .

We plan to keep all output variables that exist in OD10 in OD40. The only variables from OD10 that will not be in the OD40 data will be those that are no longer required to be reported by the airlines. We also plan to add all new OD40 input variables to the outputs as well as additional variables that can be derived from the input variables.

OD40 Coupon (Draft)

Multi-Passenger Itinerary

DB1B Coupon Table

ItinID	MktID	SeqNum	Coupons	Year	Quarter [†]	Origin	Dest	Break	CouponType	TkCarrier [‡]	OpCarrier	RPCarrier	Passengers [¶]	Distance
2025129831	202512983101	1	3	2025	1	CLT	JFK	*	A	DL	9E	9E	4	541
2025129831	202512983101	2	3	2025	1	JFK	LGA	X	D	--	--	9E	4	11
2025129831	202512983103	3	3	2025	1	LGA	CLT	X	A	DL	9E	9E	4	544

DB1C Coupon Table

ItinID	MktID	SeqNum	Coupons	Year	Month [†]	Origin	Dest	Break	CouponType	MktCarrier [‡]	OpCarrier	RPCarrier	Passengers [¶]	TotalDistance	Break_Prelim [§]	DwellTime [§]	ViaPoint [§]
2025129831	202512983101	1	3	2025	2	CLT	JFK	*	A	DL	9E	9E	1	541	--	9999	--
2025129831	202512983101	2	3	2025	2	JFK	LGA	X	D	--	--	9E	1	11	X	-1	--
2025129831	202512983103	3	3	2025	2	LGA	CLT	X	A	DL	9E	9E	1	544	X	--	--
2025129832	202512983201	1	3	2025	2	CLT	JFK	*	A	DL	9E	9E	1	541	--	9999	--
2025129832	202512983201	2	3	2025	2	JFK	LGA	X	D	--	--	9E	1	11	X	-1	--
2025129832	202512983203	3	3	2025	2	LGA	CLT	X	A	DL	9E	9E	1	544	X	--	--
2025129833	202512983301	1	3	2025	2	CLT	JFK	*	A	DL	9E	9E	1	541	--	9999	--
2025129833	202512983301	2	3	2025	2	JFK	LGA	X	D	--	--	9E	1	11	X	-1	--
2025129833	202512983303	3	3	2025	2	LGA	CLT	X	A	DL	9E	9E	1	544	X	--	--
2025129834	202512983401	1	3	2025	2	CLT	JFK	*	A	DL	9E	9E	1	541	--	9999	--
2025129834	202512983401	2	3	2025	2	JFK	LGA	X	D	--	--	9E	1	11	X	-1	--
2025129834	202512983403	3	3	2025	2	LGA	CLT	X	A	DL	9E	9E	1	544	X	--	--

[†]Table DB1B's quarterly data become table DB1C's monthly data.

[‡]Table DB1B's ticket carrier data become table DB1C's market carrier data.

[¶]Table DB1B aggregates passengers on the same itinerary into a single row, while the DB1C table shows one row for each passenger.

^{||}The Distance field is renamed "TotalDistance" in table DB1C.

*No break.

--Not applicable.

[§]New variable.

X = X trip break; CLT = Charlotte Douglas International Airport; JFK = John F. Kennedy International Airport; LGA = LaGuardia Airport; A = U.S. Reporting Carrier Flying Between 2 U.S. Points; D = U.S. Non-Reporting Carrier Flying Within North America or Surface Traffic; DL = Delta Air Lines; 9E = Endeavor Air.

Compression Formats

- What are your thoughts on BTS providing the OD40 outputs in Parquet or CSV formats?
- Is there another format that is preferred?

New OD40 Trip Break Logic

- OD10 Trip Break Logic based on distances and circuitry of the itinerary
- OD40 Trip Break Logic will be based both on distances and dwell times. Logic is still being determined.
- A trip break will occur if:
 - Dwell time \geq 8 hours when airport is in contiguous United States
 - Dwell time \geq 12 hours when airport is in non-contiguous United States
 - Dwell time \geq 24 hours when airport is international

Overlapping Tickets

REPORTING_YEAR and REPORTING_MONTH is based on **when the ticket is recognized by the airline's revenue accounting system**. This determines the cut-off point for itineraries reported to OD10 vs OD40.

OD-40 Webpage

The screenshot shows the Bureau of Transportation Statistics website. At the top, there is a navigation bar with the text "An official website of the United States government" and "United States Department of Transportation". The main header area includes the "Bureau of Transportation Statistics" logo, a search bar, and links for "Ask-A-Librarian" and "A-Z Index". Below the header is a secondary navigation bar with links for "Topics and Geography", "Statistical Products and Data", "National Transportation Library", "Newsroom", and "About BTS".

The main content area features a "Home" link and a sidebar titled "Explore Topics and Geography" with sub-links for "Topics", "Geography", and "Modes". The primary article is titled "Origin-Destination 40 Percent Survey of Airline Passenger Traffic", dated Thursday, August 22, 2024. The article text states: "On January 19, 2021, DOT issued a Notice of Proposed Rulemaking to improve the collection of aviation traffic data in the Origin-Destination Survey of Airline Passenger Traffic (O&D). The [Updates to the Origin-Destination Survey of Airline Passengers Final Rule published in the Federal Register](#) on January 31, 2023." It then provides a summary of changes to existing O&D regulations, including: "Changed the reporting carrier from first lifted carrier to issuing carrier", "Increased the sample size from 10 percent to 40 percent", "Added new data elements and eliminated others", "Increased the frequency of reporting from quarterly to monthly", "Reporting scheduled year and month of travel for each coupon", and "Increased the number of reporting carriers (all U.S. certificated and commuter air carriers who conduct scheduled service and immunized foreign air carriers)". The article concludes with the statement: "Compliance with the reporting provisions is required for air transportation taking place on or after July 1, 2025." At the bottom of the article are two buttons: "Expand All" and "Collapse All".

<https://www.bts.gov/OD-40>

Questions and Discussion

For questions:

➔ oai.od40.support@dot.gov

BTS OD40 webpage for general information:

➔ <https://www.bts.gov/OD-40>

Data submission information:

➔ <https://esubmit.rita.dot.gov/OD-US-40.aspx>

We would like to hear about your experiences with the new system today or in the weeks ahead.

