

AIR FREIGHT MARKET EVALUATION, TRUCK ROUTE CONNECTIVITY ANALYSIS, FHWA FREIGHT INTERMODAL CONNECTORS CONGESTION ANALYSIS AND PEER COMPARISONS

AGENCIES, PRIME CONSULTANTS, AND PROJECT CONTACTS:

St. Joseph County Indiana - The Antero Group
South Bend International Airport Air Freight Market Study
 Andrew Johansson / (773)931-2673 / Andrew.D.Johansson@gmail.com
 (DAMA Staff Experience)

Cook County Department of Transportation - URS (Acquired by AECOM)
Cook County Long Range Transportation Plan
 Jen McNeil, AICP / (312) 373-7700

Illinois Department of Transportation
Illinois Statewide Congestion Analysis Study
 James E. Durako / (217)785-2353 / James.Durako@illinois.gov

PROJECT PURPOSES:

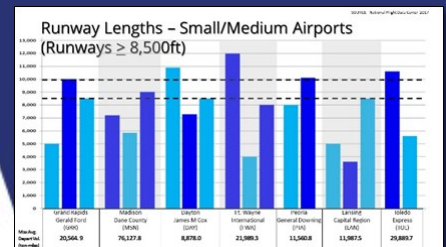
- Identify Opportunities to Capture Air Freight Market Share at a Mid-Size Airport in Indiana and Important Airfield Constraints
- Assess Connectivity of Regional Truck Route Network and How Jurisdiction Changes Affect Routing in the County
- Evaluate FHWA Freight Intermodal Connectors Congestion Conditions Using the NPMRDS GPS Tracking Data Set

DAMA Consultants, Inc., and the DAMA Staff have worked on Freight and Logistics issues across multiple modes and analyzed market conditions, evaluated infrastructure conditions and constraints, and developed methods to identify congestion and delays across freight corridors. These projects provide DAMA with the ability to understand how freight decisions are made, the routes that freight vehicles use, and the delays they encounter while in transit.

DAMA Staff combined multiple data sources including the FHWA Freight Analysis Framework, STB Waybill Sample, FAA T-100 Flight Records, airfield and runway diagrams, and other sources to identify the types of shipments that currently arrive or depart at 30 airports and the types of aircraft that carry these shipments. The study also used these sources to identify shipments carried by other modes that could be captured by improved cargo infrastructure at *South Bend International*.

DAMA's work on the *Cook County Long Range Transportation Plan* evaluated the Regional Truck Route Network and identified locations where jurisdiction changes along truck routes cause connectivity and connection issues including routes to and from Chicago O'Hare Airport and other freight transportation hubs.

The Freight Intermodal Connectors component of the *Illinois Statewide Congestion Analysis Study* used the National Performance Management Research Data Set (NPMRDS) to compare congestion conditions and delays along freight corridors with roadways that had similar characteristics. The findings of this study were presented at the Transportation Research Board (TRB) 2016 National Meeting.



**Air Freight and Mail Flight Departures and Arrivals
Other Comparison Airports in Region**

Location	Airport Code	Airport Name	Continent	Runway Length (ft)	2015 Max Peak Arrivals	2015 Total Arrivals and Mail Flights
Indianapolis	IND	Chicago-Mexico International	North America	10,000	128,724	89,441 (24.7%)
Chicago	MDW	Chicago-Midway International	North America	8,000	168,963	3,282 (1.9%)
Chicago	MKE	Chicago-Midland Central IL	Small Region	8,000	4,712	4,501 (77.9%)
Chicago	MSP	Chicago-Midland Central IL	Small Region	8,000	6,261	4,612 (73.8%)
Chicago	MDL	Chicago-Midland Central IL	Small Region	8,100	1,017	1,761 (2.8%)
Chicago	MDW	Chicago-Midland Central IL	Small Region	8,100	977	2,000 (3.2%)
Chicago	MKE	Chicago-Midland Central IL	Small Region	8,100	14,968	7,710 (51.5%)
Chicago	MSP	Chicago-Midland Central IL	Small Region	8,100	25,019	2,302 (9.2%)
Chicago	MDW	Chicago-Midland Central IL	Small Region	8,100	187,768	187,768 (100%)
Chicago	MSP	Chicago-Midland Central IL	Small Region	8,100	449,247	2,743 (0.6%)
Chicago	MKE	Chicago-Midland Central IL	Small Region	8,100	449,247	2,743 (0.6%)
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