Michigan Department of Transportation

Freight Data Sources

MTPA / MAR 33rd Conference - Freight Workshop

Kalamazoo, MI - July 14, 2009

Jesse Gwilliams, MDOT

Origin & Destination Studies

2003 - 2009

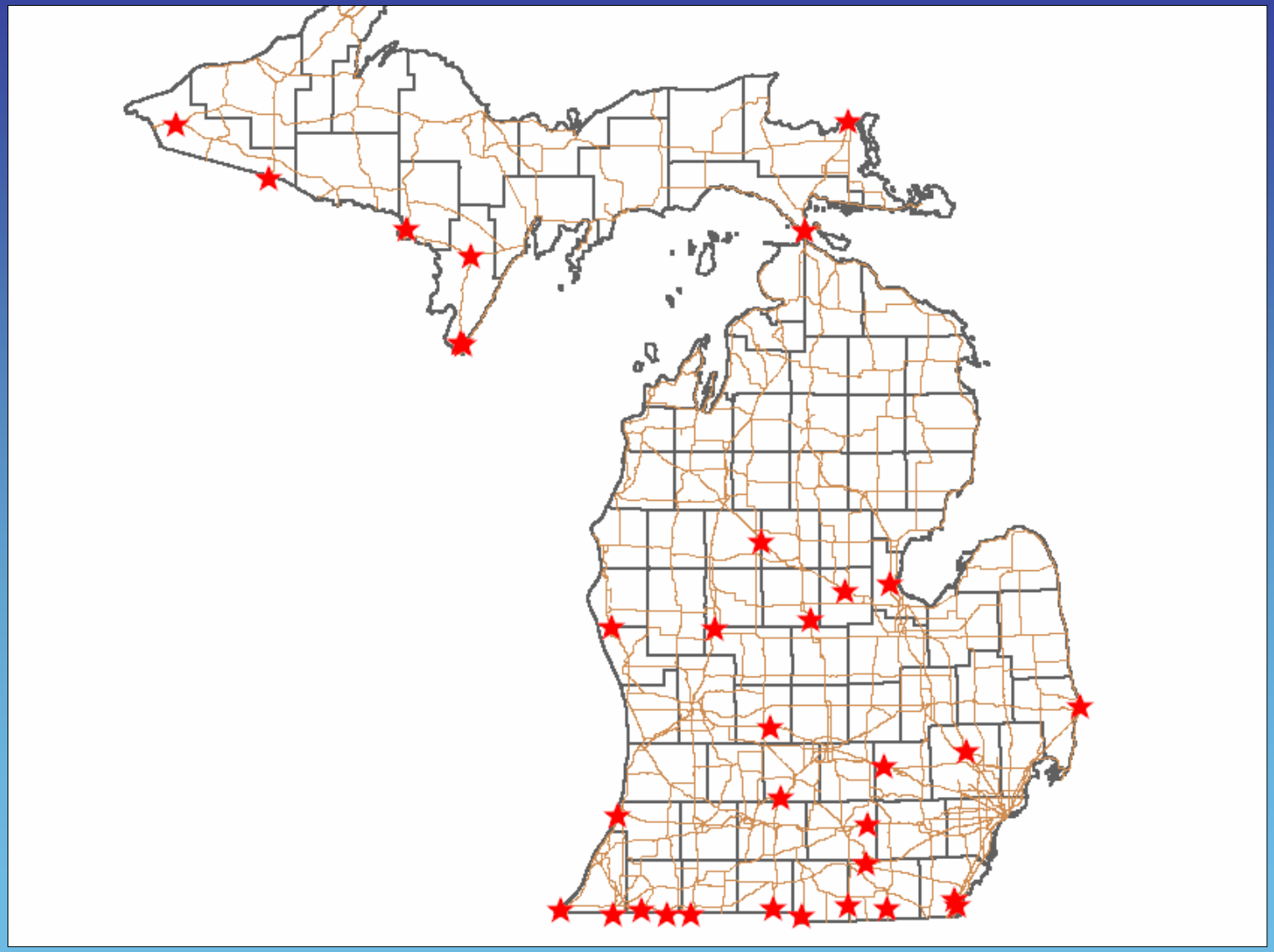
SUTA

Statewide and Urban Travel Analysis

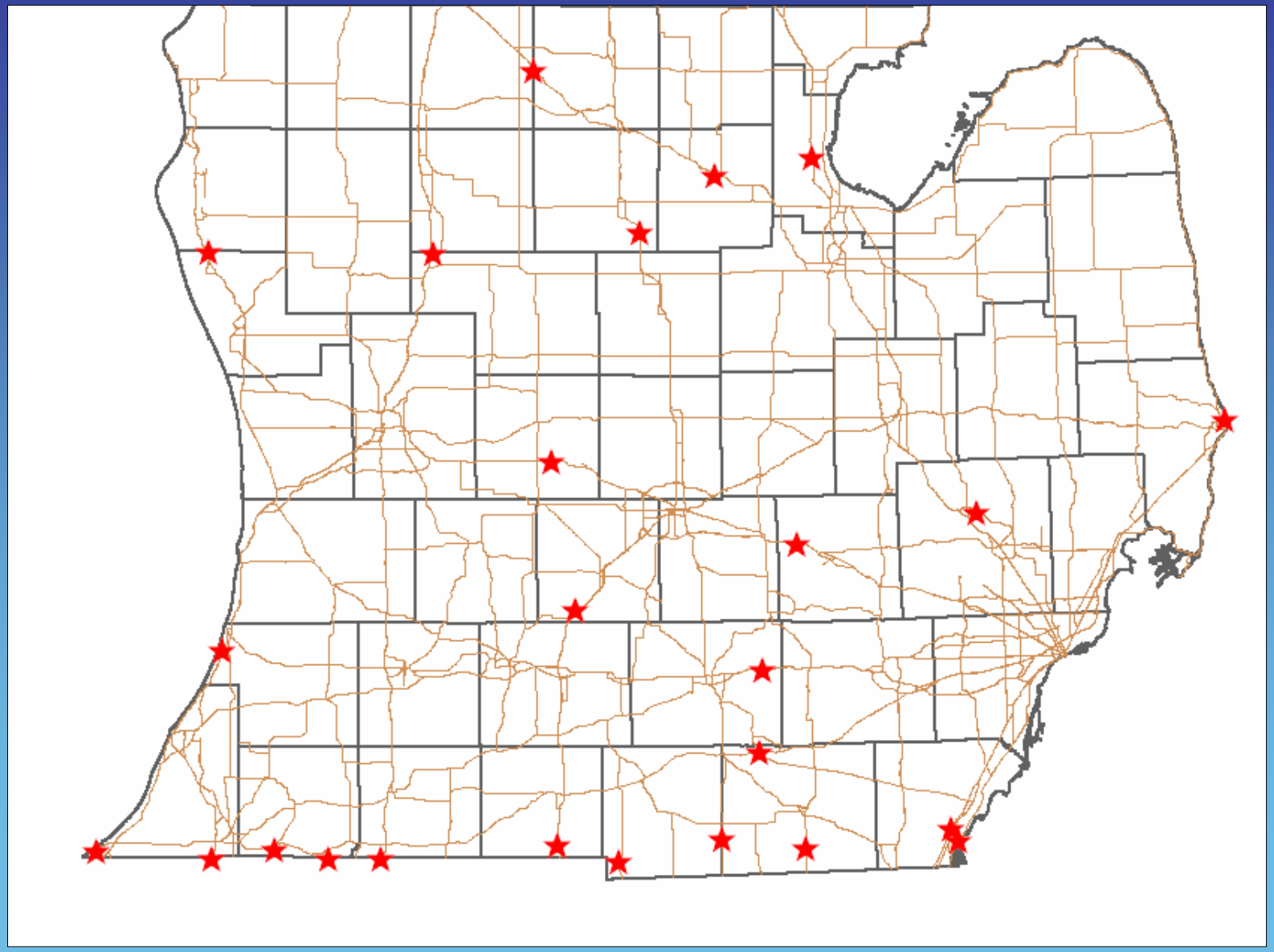
Assessing Today – Predicting Tomorrow

- Who
- What
- Where
- When
- Why
- How

Origin and Destination Studies



Origin and Destination Studies



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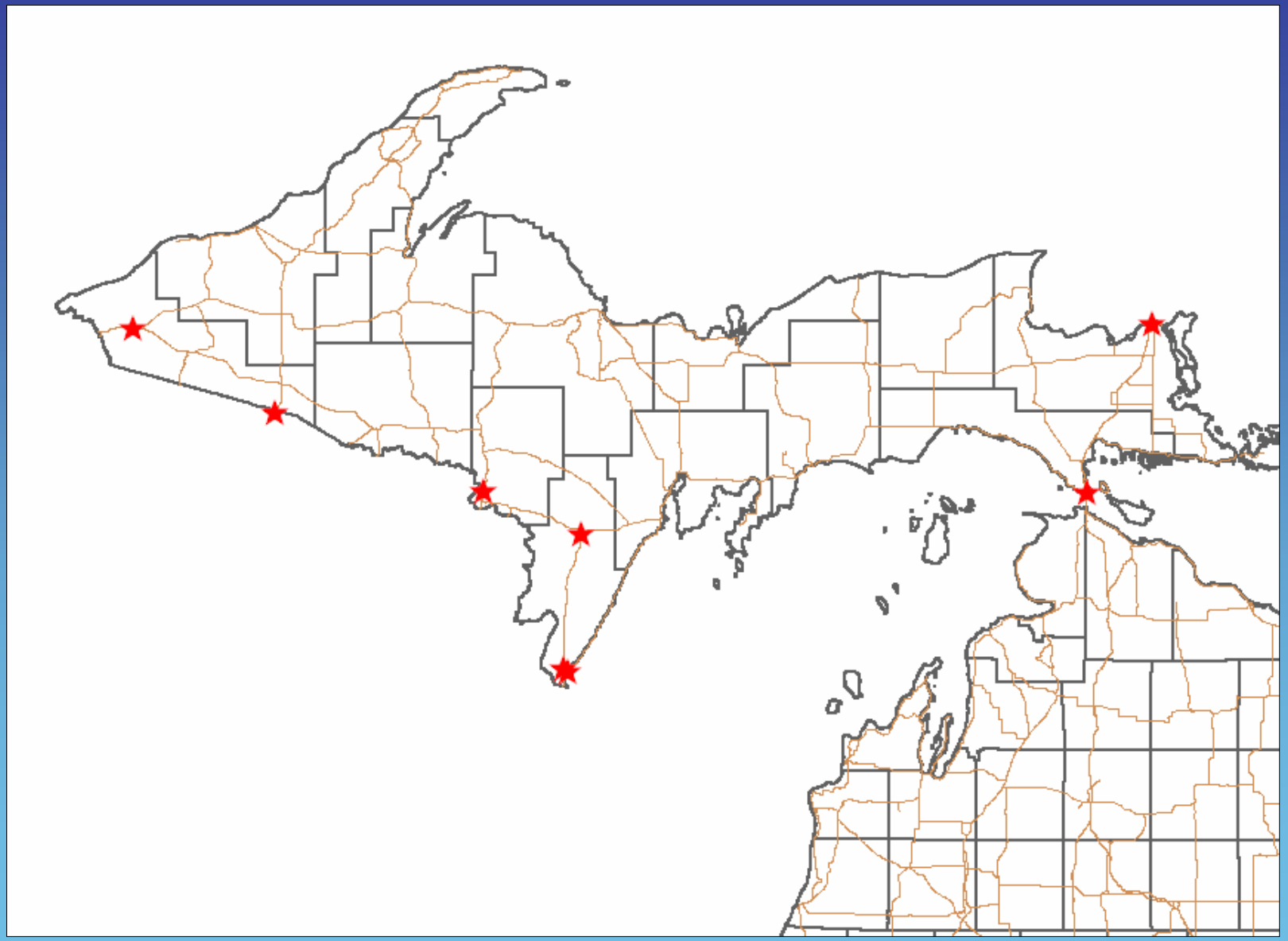

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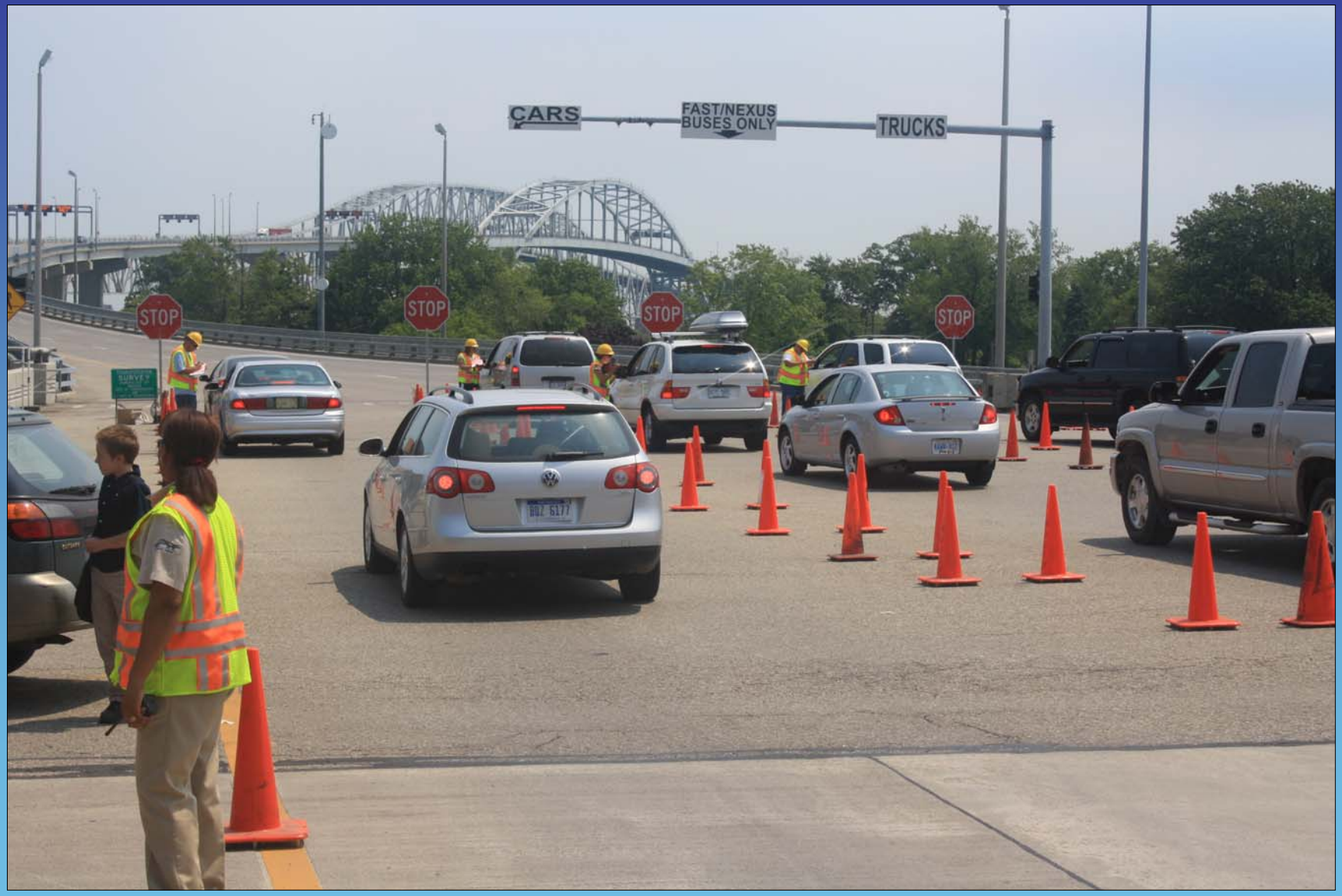


Origin and Destination Studies

MDOT 1757 (04/04)

SINGLE STATION O-D STUDY

COUNTY NUMBER (2 3) | STATEWIDE NUMBER (4 5 6 7) | HOUR PERIOD ENDING (8 9) | DIRECTION (10) | DAY OF TRAVEL (11) | MO. (12 13) | DATE (14 15) | INTERVIEWER'S NAME

Interview Number	Veh. Type	Occupants	ORIGIN 1. Coming from now 2. Originally City, Twp., County	Purpose	DESTINATION 3. Going to now 4. Final location City, Twp., County	Purpose	Frequency	VEHICLE LICENSE (State)	HOME IF NOT 1-4	COMMODITY (LOAD)	COMMODITY WEIGHT (POUNDS)
			1)		3)				5)		
			2)		4)						
			1)		3)				5)		
			2)		4)						
			1)		3)				5)		
			2)		4)						
			1)		3)				5)		
			2)		4)						

VEHICLE TYPE

1. Auto/Van/Pickup/Sport Utility
2. Auto/Van/Pickup/Sport Utility with Trailer
3. Motorcycle
4. Motohome/RV
5. Single Unit Trucks
6. Semi Trucks
7. Multiple Trailer
8. Buses
9. Others

FREQUENCY

1. Daily
2. Weekly
3. Monthly
4. 4 X a year
5. 2 X a year
6. Once a year
7. One time only
8. Refused

PURPOSE

1. Home
2. Work-primary
3. Work-related
4. Elem./Sec. school
5. College/university
6. Personal business
7. Shop frequently
8. Shopping infrequently
9. Dining out
10. Service passenger
11. Social visit
12. Outdoor recreation
13. Indoor/event recreation
14. Recreational driving
15. Cottage, motel, bed & breakfast

TRUCK STYLE

C = Container
S = Service

Freight Movement

Commercial Truck Origin and Destination Studies

- Expansion
- Commodities
- O&D Cities
- Maps
- Report

Future Studies

- Ambassador Bridge
- High Volume O&D's
- Revisit Locations
- Others

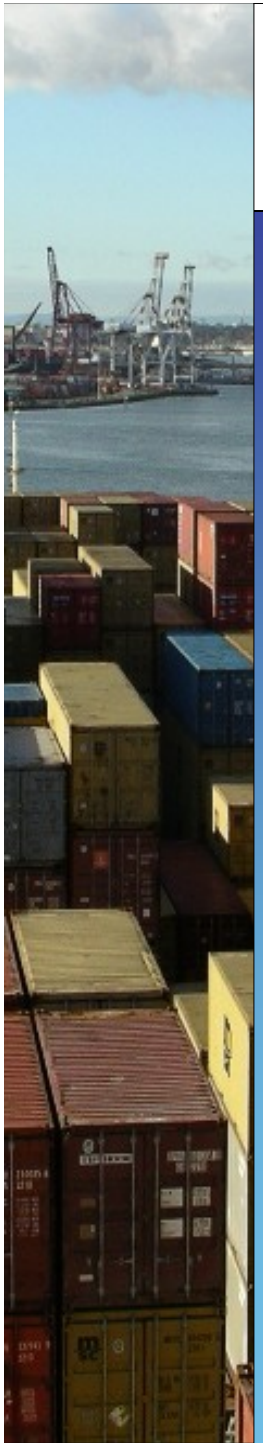
Other Studies

Canadian National Roadside Survey (NRS)

- 1999
- 2007 (?)

Transearch

IHS Global Insight

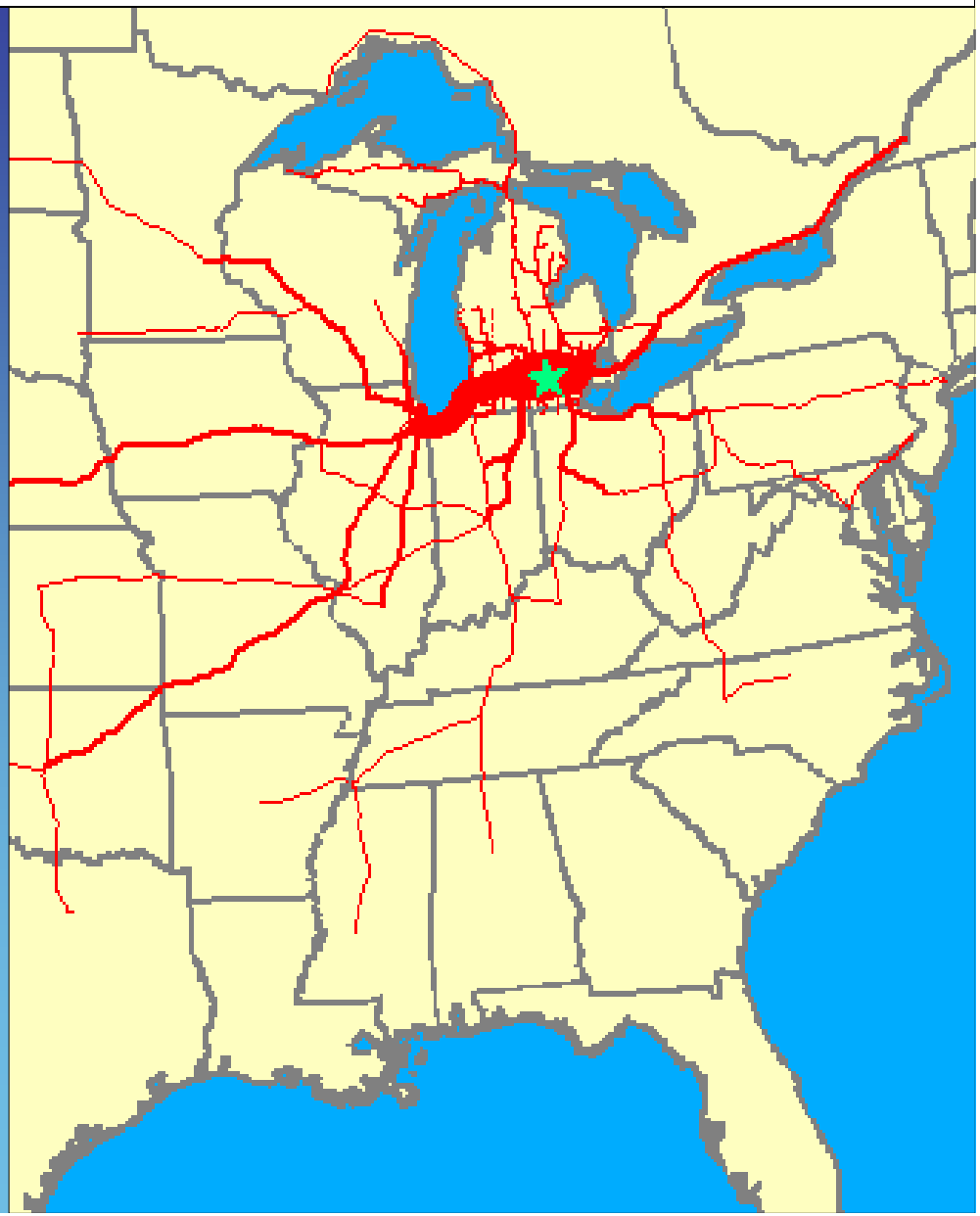


What is Transearch?

- Commodity Flow Movements
- Multimodal
- Tons & Trucks
- Sources

MDOT Data

- 2000, 2003, 2006
- Michigan to/from Other States
- Michigan Internal Trips
- Through Trips



Data Supplements

- Agriculture
- Forest Products
- Empty Trucks

2006 Data Additions

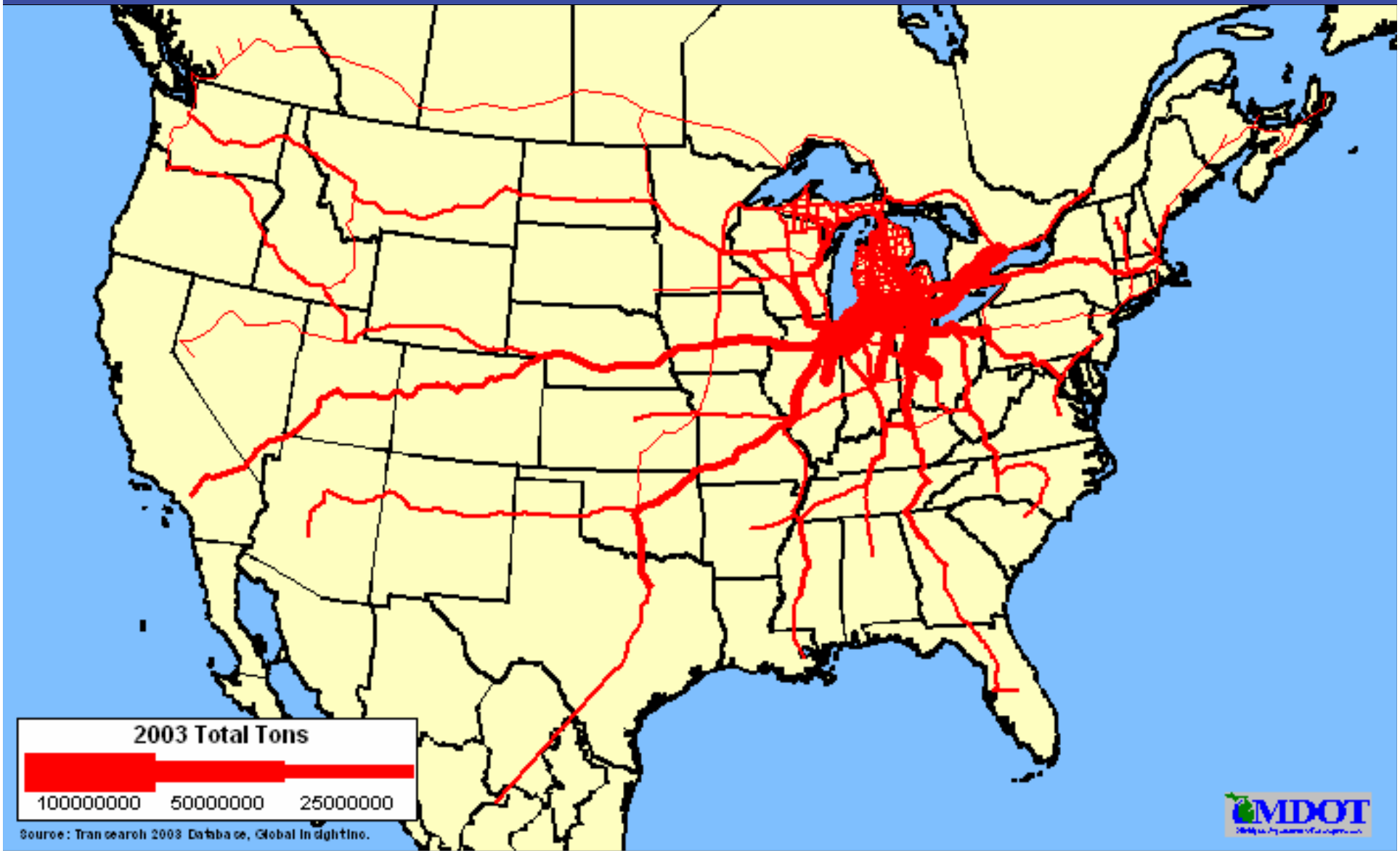
- Disaggregated to the TAZ Level
- Petroleum movements depicted from secondary traffic
- Added Municipal Waste Movements
- 5-Year Forecasts
- Implemented MDOT Port Data

Transearch Rail

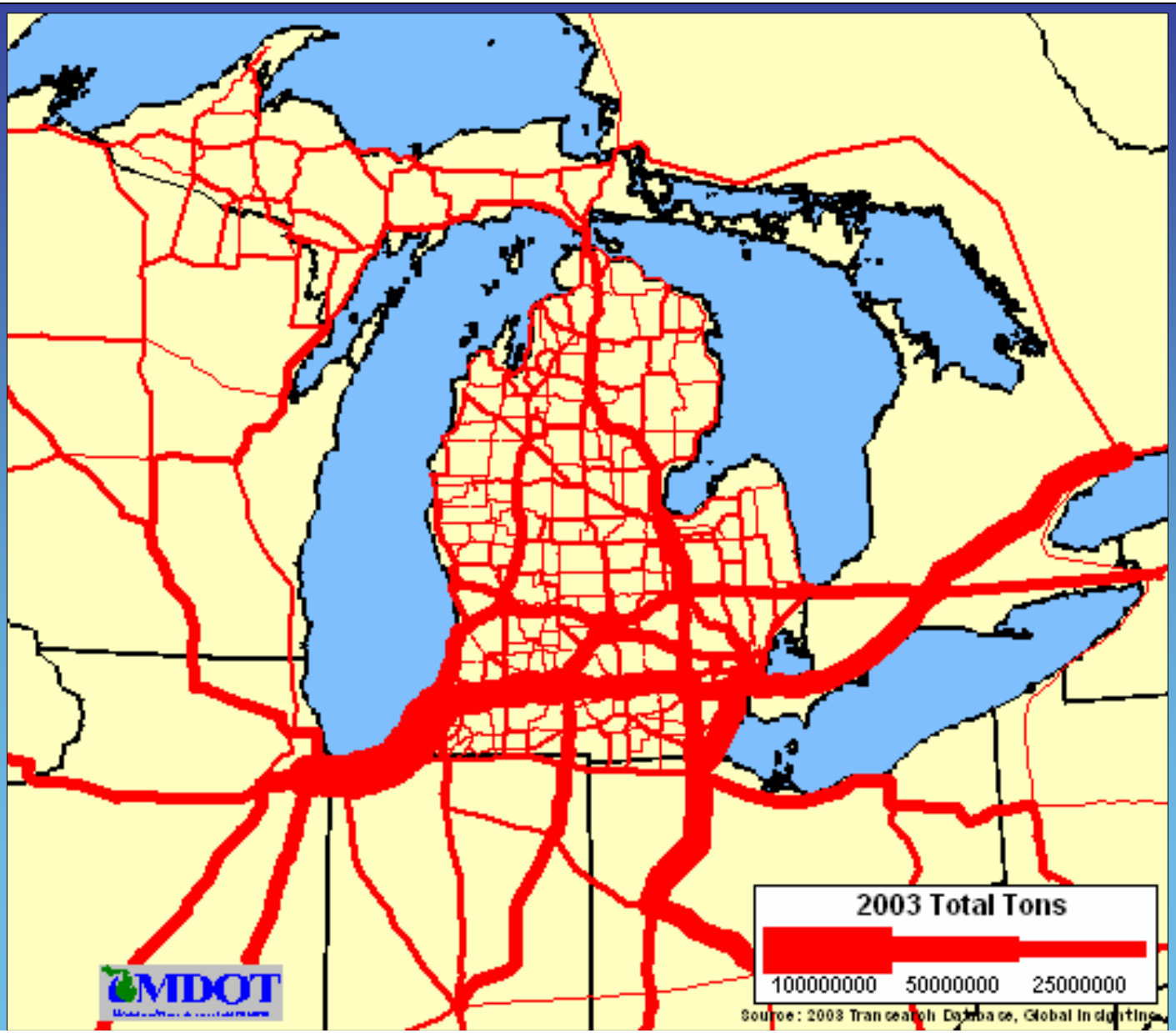
- Tons
- Number of Cars
- Intermodal
- Routing

Transearch Rail Value

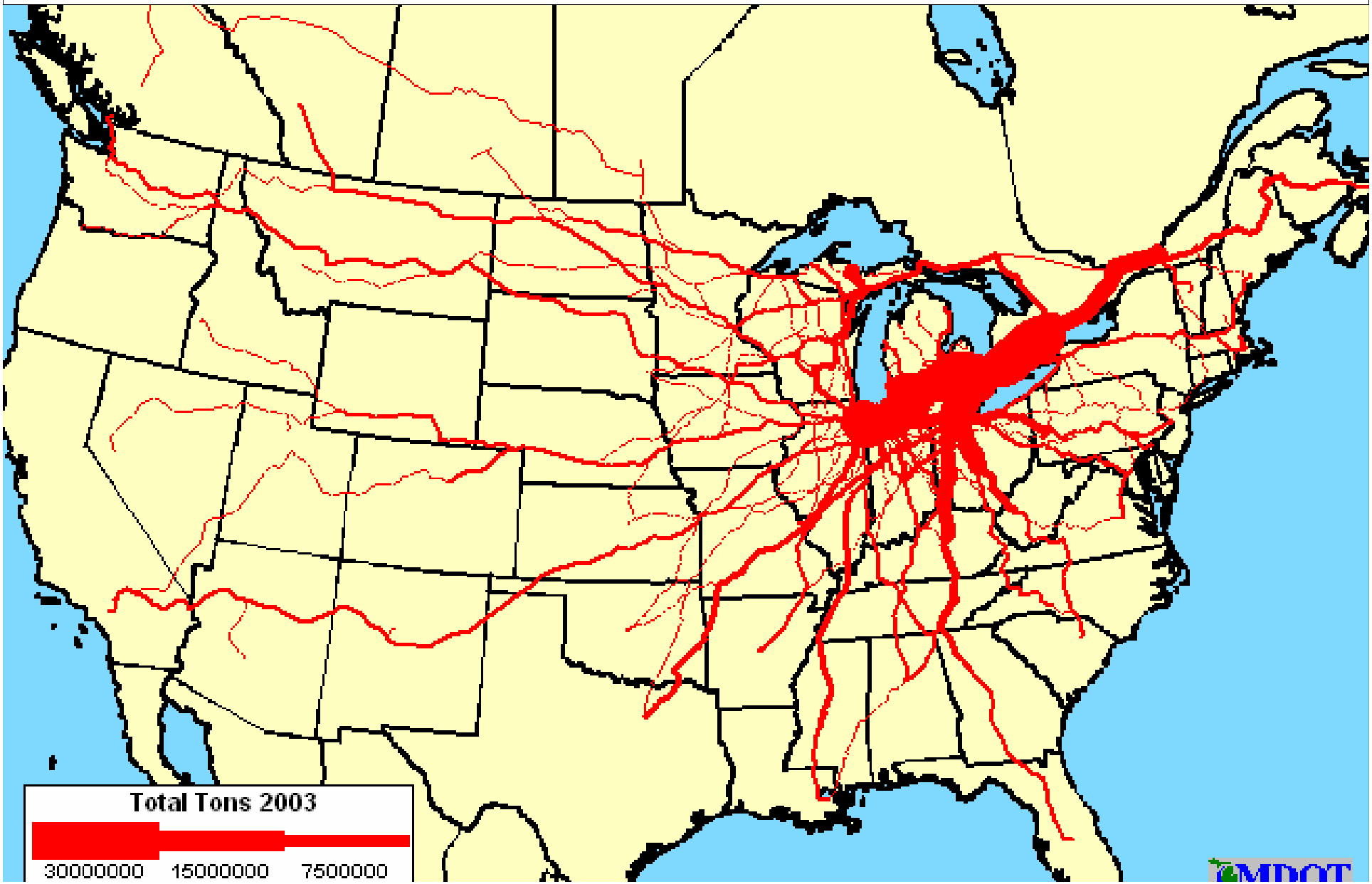
TRUCK FLOWS


2003 Total Tons
100000000
50000000
25000000
Source: Transearch 2003 Database, Global Insight Inc.
MDOT

TRUCK FLOWS



RAIL FLOWS



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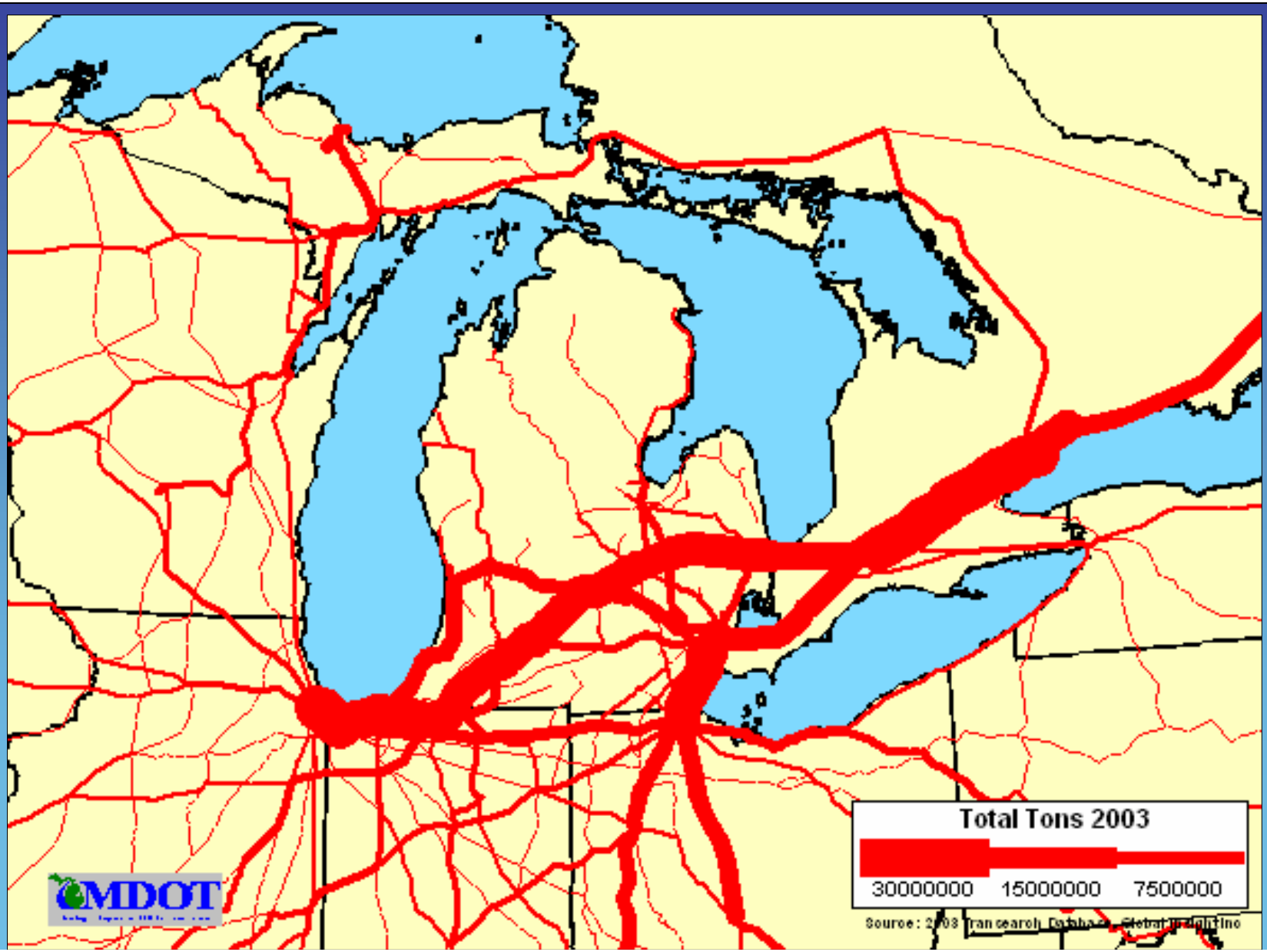


Transearch Pros

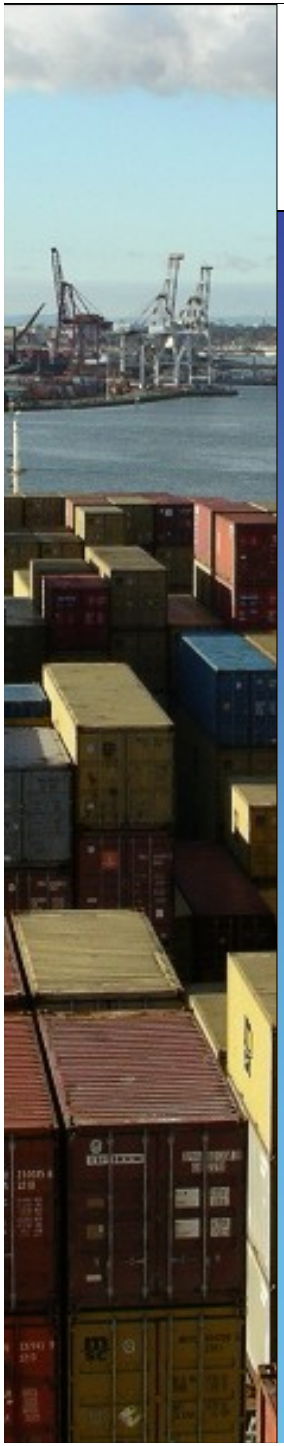
- Statewide Totals
- Supplement Commodities
- Values
- Forecasts

Transearch Cons

- Change in Transportation Equipment
- Non-Metallic Mineral
- Timely Corrections
- TAZ Disaggregation

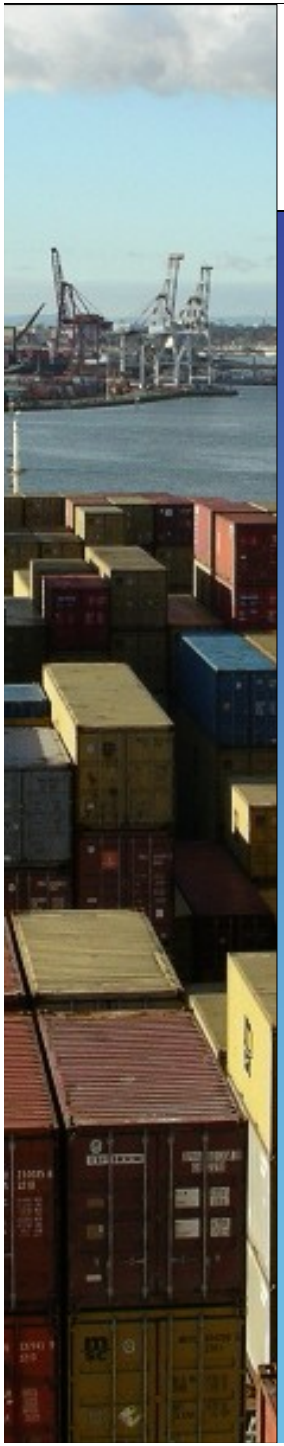
Transearch

- Continue to Work With Global Insight on Changes
- Future Purchases – 2011?



Other Data

- Water
  - ACOE, MDOT
- Rail
  - STB Waybill
- AIR
  - MDOT Aeronautics



Other Data

- MI Transportation Plan
  - Freight Technical Report
- MDOT Data Collection Section
  - Counts
  - Classifications
  - WIM Data
  - Contact
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    - 517-373-2272

Questions?

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