Measuring Freight Movement in Ohio Urban Areas: Available Data Sources

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Midwest FreightView
Great Lakes Maritime Information Delivery System

• Provides a centralized repository for regional freight data with convenient secure access

• Management of a comprehensive database relating:
  ○ Economic activity among all sectors
  ○ Regional population patterns
  ○ Import and export flows
  ○ Intra-regional flows
  ○ Intermodal connectivity

• Comprehensive, seamless, spatially registered and current data repository in a GIS framework

• Internet-Based Delivery:  CITRIX MetaFrame Environment
Midwest FreightView
Great Lakes Maritime Information Delivery System

• Assembly of a regional database that can support freight modeling efforts
• Data support functions for freight analysts, public officials and policy analysts
• Projected users:
  ○ Federal, state, and local governments
  ○ Metropolitan planning organizations (MPOs)
  ○ Transportation Trade Groups
  ○ University research centers
  ○ Other public stakeholders
INTRODUCTION

The Mississippi Valley Freight Coalition has built upon the work of the Upper Midwest Freight Corridor Study to establish a regional organization to cooperate in the planning, operation, preservation, and improvement of transportation infrastructure in the Mississippi Valley region. The Mississippi Valley region includes ten states (Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Ohio, and Wisconsin) that share key interstate corridors, rail infrastructure, and inland and Great Lakes waterways. The signing of a Memorandum of Understanding by these states’ Departments of Transportation indicates their willingness to meet freight demand through regional cooperative efforts.

The Mississippi Valley Freight Coalition is currently involved in the formation of Executive and Technical Committees, the surveying of transportation Customers in the region (to form a Customer Committee), and the development of a Charter and Assessment of Financial Needs.

DATA VIEWER

Here is the link to the Data Viewer: Click Below

Data Viewer
MVFC - DataViewer User's Guide

The data contained in the viewer has a complete meta-data, which could be found in the Data Documentation page.
Welcome to the Information Clearinghouse

This Internet Site is the home of a comprehensive data repository and information clearinghouse for the maritime industry in the Great Lakes. This information delivery system is envisioned to facilitate the acquisition, storage, management, analysis, and exchange of data between analysts and decision makers within the industry. Thus, this system serves as a resource for public policy decisions and for drawing the necessary link between maritime freight movements, economic viability, and environmental quality throughout the Great Lakes and St. Lawrence Seaway. As such, this system also serves as a central focus for diverse interests within the industry to support the promotion of sustainable maritime transportation in the region.

Data Viewer

Here is the link to the Data Viewer: Click Below

[Image of Data Viewer]

The data contained in the viewer has complete meta-data, which could be found in the Data Documentation page.

This site is best viewed with Firefox 3 or IE 7

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Send all feedback/comments to L. Wissmar

http://maritime.utoledo.edu
Iron and Steel Mills (IMPLAN) & Downbound Crude Material Tonnage (USACE)
Midwest FreightView

- Contents of Online Database
- Contents of Data Repository
- Future Additions to Repository and Online Database
Midwest FreightView Online Data

Current Network Data:

- ORNL CTA North American Highway Network
- NHPN (FAF) Highway Network
- Integrated Highway Network
- Updated ORNL CTA North American Rail Network
- North American Transportation Atlas Data (NORTAD)
- BTS Intermodal Terminals, Ports, Airports
- USACE Dock Data (Master Docks Plus Database)
- FAF Zones and Centroids
- FAF 2002 OD Flows (National Scale)
- FAF² 2007 Provisional OD Flows (National Scale)
Midwest FreightView Online Data, Continued

Economic/Population Data:

- US Census of Agriculture / NASS Data (County-Level)
- Demographics Plus 2003 *Business Counts*—Tract+
- US Census 2000 Long Form Database—Tract +
- Geographic Data: Counties, Census Tracts, ZIP Code Areas, Congressional Districts, MSAs, Urban Areas
- County-Level Employment by 3-Digit NAICS classification (Sources: BLS ES/202, County Business Patterns, supplemented with Minnesota IMPLAN Group, Inc. data)
- Satellite imagery / aerial photography of dock facilities
Data Repository Contents

Data Residing in Repository outside of MWFV

- Import/Export Flows (GTIS), 1999+, by State, Customs Gateway
- Dock equipment, lock performance data—U.S. side only
- Establishments and employment by 2-6 Digit NAICS classification among counties, MSAs and individual Establishments in 10-State MVFC study region (Sources: Minnesota IMPLAN Group, Inc., Dun and Bradstreet/Harris InfoSearch)
- BEA gross domestic product by metropolitan area and by sector and by Year
- BEA regions in ESRI Shapefile format
Data Repository Contents, Continued

Data Residing in Repository outside of MWFV

- Air Freight Flow Network (by market & month)
- Air Freight Data (T-100 1997-2008)
- MARAD international vessel movements & USACE Vessel Entrances and Clearances
- USACE Waterborne Commerce Database Part III (Great Lakes)
- ESRI Traffic Volumes
Looking Ahead: Updates, Additions, Improvements

Data Currently Being Added to Database:

- ORNL CTA North American Rail Interlining Network
- Integrated Network—Great Lakes Waterway, Highway, Rail linked to Commercial Docks, Locks (USACE)
- Updated US Highway Network
  - Speed / Estimated Travel Times
  - Toll gates / weigh stations
  - Add ESRI Traffic Counts to integrated highway network
  - Add ATRI Travel Time Data (by time of day, day of week)
  - Link highways to Rail Network through Intermodal Sites
- Link BEA Regions/BEA GDP Data to Public Rail Waybill Data
Looking Ahead: Updates, Additions, Improvements

Data Currently Being Added to Database:

- Add T100 Air Flows between Airports (by month, year)
- USACE Foreign Traffic Vessel Entrances and Clearances
- USACE Waterborne Commerce Data
- County-to-County Mileage and Impedance Tables:
  - Highway
  - Rail
  - Water
  Useful for Analytical Tools—Accessibility, Location Analysis, etc.
- Updated County Business Patterns
Looking Ahead: Updates, Additions, Improvements

Data Currently Being Added to Database:

- Continue development of integrated network:
  - Highway Performance Indicators
  - Time-Dependent Vehicle Routing on Highway Network

- Development of New Data Viewer to Replace *ArcView*
  - Streamlined Data Viewer
  - User Friendly Query Functions
  - **Example:** *National County Commodity Flow Data Delivery System*
National County Commodity Flow Data Delivery System (UIC / UT Partnership)

- Contents of the database consist of 43 2-digit SCTG (Standard Classification of Transported Goods) Categories
- Data managed in the following formats
  - County-level inflow tonnage totals (kton)--all modes
  - County-level outflow tonnage totals (kton)—all modes
  - County-level combined inflow/outflow volumes
  - County-to-County OD flow tonnage (trucks only)
- Access to the site by permission only: User Ids, Passwords, issued by University of Illinois Chicago Research Team
National County Commodity Flow Data Delivery System

Query / Data Retrieval Functions

- Data retrieved by selections on pull-down menus
- Users select SCTG Codes, Inflows, Outflows, Counties
- Generate Data Tables for Inflows, Outflows, OD Flows
- Data tables in CSV format for import into Spreadsheets or database software
Access provided at Web Portal
http://midwestfreightdata.utoledo.edu
National County Commodity Flows
Thank You