



Illinois State Freight Advisory Council

August 24, 2023

AGENDA

- Leadership Update
- Truck Parking
- Illinois Waterway Maintenance Efforts
- Illinois International Port District Updates
- Aviation and Marine Updates
- Freight Plan Updates
- Legislative Freight Update
- US DOT Update
- Round Table Discussion



Leadership Update

Secretary Osman,
Illinois Department of Transportation



Truck Parking Discussion

Michael Vanderhoof
Bureau Chief of Planning
Illinois Department of Transportation



Illinois Waterway Maintenance Efforts

Tom Heinold

Chief of Operations Division

United States Army Corps of Engineers



**US Army Corps
of Engineers®**



US ARMY CORPS OF ENGINEERS ROCK ISLAND DISTRICT

Navigation System
Operation and Maintenance
Tom Heinold, Chief of Operations Division

Illinois Freight Advisory Committee
Springfield, IL
24 AUG 2023



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US Army Corps
of Engineers®





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AREA OF RESPONSIBILITY



Parts of five states

- Three state capitols
- Lead Corps district for Regulatory issues in Iowa

Five river basins

- Upper Mississippi, Illinois, Des Moines, Iowa/Cedar and Rock

Twelve locks and dams on the Mississippi River

- Dubuque, IA to Hannibal, MO

Six locks and dams on the Illinois Waterway

- Nationwide support

National Flood Fight Center

- Nationwide support





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ROCK ISLAND DISTRICT'S CIVIL WORKS AUTHORITIES



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- Flood Risk Management
- Regulatory
- Environmental Stewardship
- Ecosystem Restoration
- Natural Resource Management
- Emergency Management
- Water Supply
- Recreation
- Navigation
- Continuing Authorities Program



WHY DO WE CARE ABOUT INLAND WATERWAYS?



- Most cost-effective mode of bulk goods transportation
- Our international competitiveness depends on them!
 - » (62% of US grain exports are shipped down the Mississippi on barges)
 - » Post-Panamax is open for business!
- Reduce road congestion (and wear)
- Safest
- Most environmentally sound / least polluting
- Alternative to rail & road (no monopoly)
- Reliable navigation pools provide ancillary benefits (water supply, cooling water, recreation, improved environmental habitats)



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STATE OF THE DISTRICT'S INFRASTRUCTURE

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Rock Island District operates and maintains the second longest nine-foot navigation channel in the Corps of Engineers.

- 17 Dams and 20 Locks
- 582 Miles of Navigation Channel
- 800+ Million Tons of Cargo Locked each year
- > \$1 Billion Transportation Annual Cost Benefit

Most locks and dams on the Upper Mississippi and Illinois Waterway were constructed in the 1930s and 40s and have far exceeded their projected 50-year lifespan.

Major maintenance and rehabilitation are needed to restore these aging facilities to full capability, prevent major disruptions, and provide opportunities for growth.

According to the 2019 U.S. Department of Agriculture study titled “**Importance of Inland Waterways to U.S. Agriculture**,” failure to modernize these and other locks and dams increases costs of U.S. farm exports and helps foreign exporters close the cost gap with the United States.





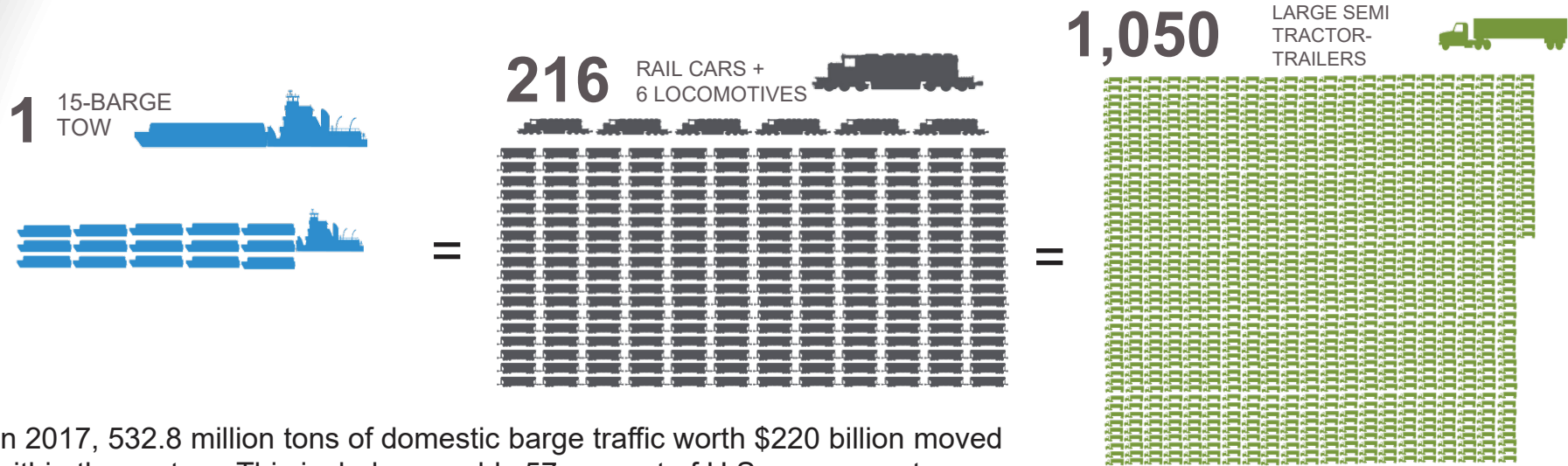
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IMPORTANCE OF INLAND NAVIGATION

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The inland waterway navigation system, to include the Upper Mississippi River system, saves between \$7 and \$9 billion annually over costs of shipping by other modes. Cargo capacity is a major factor in the system's efficiency.



In 2017, 532.8 million tons of domestic barge traffic worth \$220 billion moved within the system. This includes roughly 57 percent of U.S. corn exports, valued at \$4.8 billion, and 59 percent of U.S. soybean exports, valued at \$12.4 billion.

Barge transportation is also environmentally friendly. On one gallon of fuel, a towboat can move one ton of cargo 647 miles as opposed to rail which can go 477 miles and truck which can only do 145 miles. Inland towing carbon dioxide emissions are also less at 15.62 grams per ton-mile as compared to 21.19 for rail and 154.08 for truck.



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MISSISSIPPI RIVER LOCK DEWATERINGS

14



Typical Dewatering Activities:

- Close mid-DEC / early JAN
- Clean sills, set bulkheads, pump down the chamber
- Inspect normally-submerged components (and repair what we can)
- Place bulkhead sill beams and encase in concrete
- Repair / replace bubbler systems
- Repair sills
- Repair miter gate seals
- Replace miter gate anchorages
- Repair vertical concrete in the chamber
- Open by late FEB or early MAR



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LOCK 15 DEWATERING – WINTER 2021-2022

15





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FLASHBACK – LAGRANGE LOCK

16



- Unsafe conditions for both Towing Industry and Lock personnel
- Steeply decreasing reliability of service
- Delays in restoring service after flooding conditions



Was the Nation's "Poster Child"
for decaying infrastructure



2020 LAGRANGE MAJOR REHABILITATION / MAJOR MAINTENANCE

17



Vertical concrete pre-cast panel installation



New gate machinery base







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19 MAY 2020 – STARVED ROCK LOCK

19





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2020 STARVED ROCK MAJOR MAINTENANCE

20





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2020 MARSEILLES MAJOR MAINTENANCE

21





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2023 ILLINOIS WATERWAY CLOSURES

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MARSEILLES LOCK





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2023 ILLINOIS WATERWAY CLOSURES

23



DRESDEN ISLAND LOCK





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2023 ILLINOIS WATERWAY CLOSURES

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BRANDON ROAD LOCK

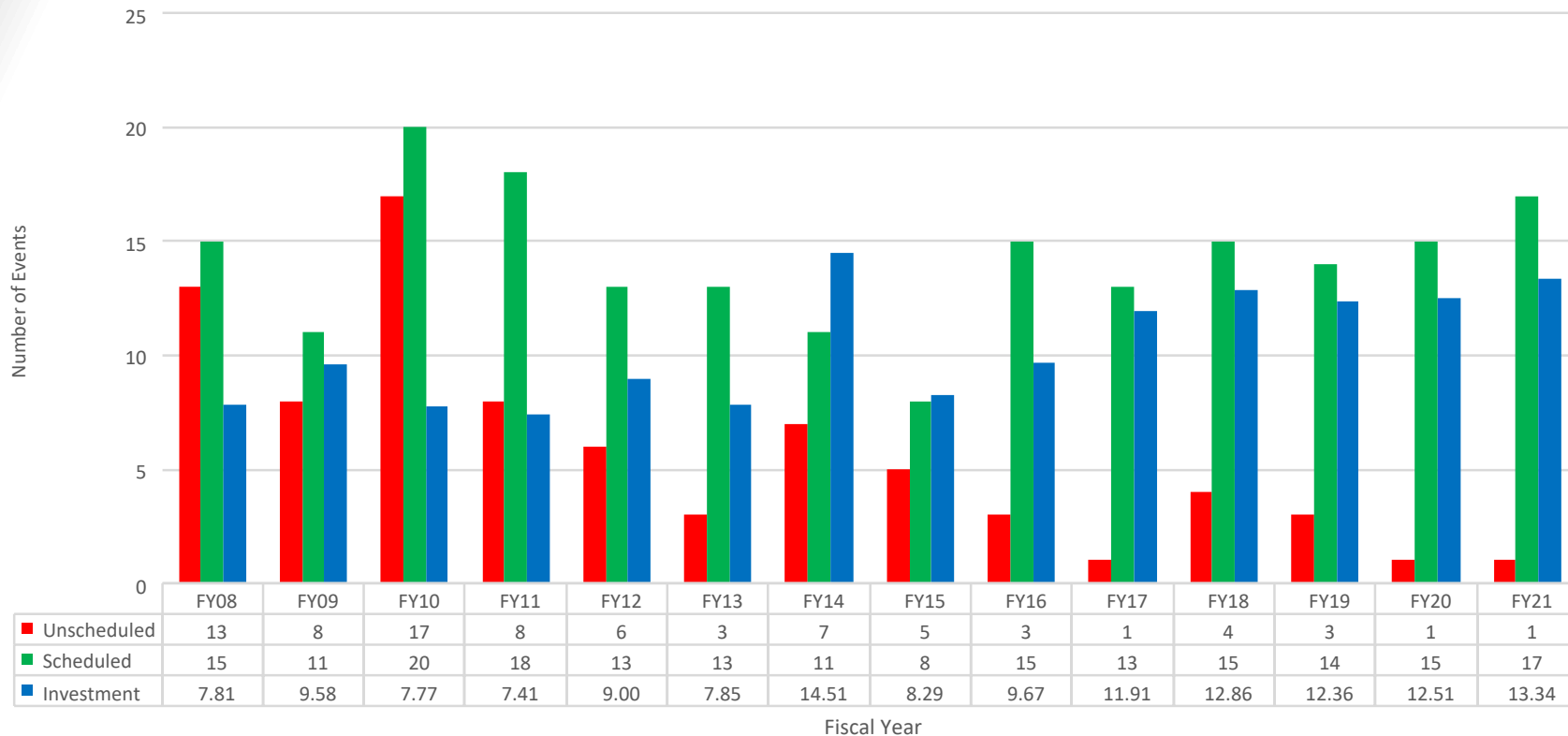




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Scheduled & Unscheduled Lock Stoppages Greater Than 7 Days With Combined Construction and O&M Investments (Hundred Thousands)



■ Unscheduled ■ Scheduled ■ Investment



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NAVIGATION & ECOSYSTEM SUSTAINABILITY PROGRAM (NESP)

30



- **1200' Locks** at Locks 20, 21, 22, 24, and 25 on the Mississippi River along with 1200' Locks at Peoria and LaGrange on the Illinois Waterway + other Navigation & Ecosystem improvements
- FY20: \$4.5M received (\$3M for Navigation, \$1.5M for Ecosystem)
 - Funds used to advance designs and ready projects for construction
 - At the end of FY21, over \$20M in construction ready projects
- FY21: Still no Construction New Start, continued design efforts
 - \$5M received (\$2.625M for Navigation, \$2.375M for Ecosystem)
- FY22: **\$732M for Lock 25**, \$97 for LD22 fish passage
- FY23: \$67.7M total (initial appropriation + work plan)
- FY24 PBud \$0, but House & Senate markups include funding



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THANK YOU

for the opportunity to speak with you today!

are there any

QUESTIONS?

Rock Island District's website: www.mvr.usace.army.mil

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Illinois International Port District Update

Erik Varela
Executive Director
Illinois International Port District



IDOT FREIGHT ADVISORY COUNCIL



ILLINOIS INTERNATIONAL
PORT DISTRICT
Erik Varela, Executive Director

AUGUST 2023

The Port of Chicago

THE GREATEST MULTIMODAL FACILITY IN NORTH AMERICA

- Separate municipal corporation established in 1951
- Managed by Executive Director
- Appointed by 9-member Board of Directors
- No taxing authority – funded by rents, fees, other revenues
- Landlord bulk and break bulk port
- Manage Foreign Trade Zone (FTZ) #22
- 2022 Operating Budget Revenue \$5.2M

Port District Top Commodities:

1

SAND
& GRAVEL



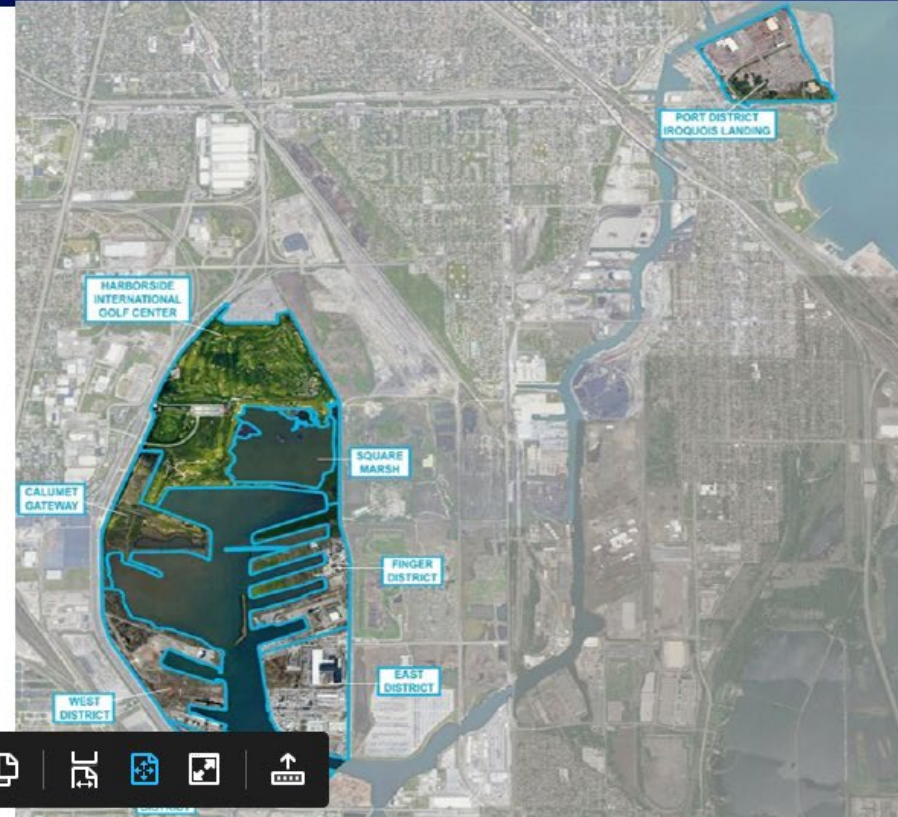
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PETROLEUM
PRODUCTS



3

METAL
PRODUCTS



Implementing IIPD Master Plan



Serve as a National Multimodal Freight & Logistics Hub



\$52.5M Iroquois Landing Dock Wall

Reconstruct backbone of the IIPD's Great Lakes Shipping



\$35.5M Lake Calumet Butler Drive

Replace aging infrastructure at IIPD's key River Terminal



Facilitate Economic Development



100-acre Industrial Focused Land Development

Largest freight development since IIPD creation



65-acre Commerical Land Development

Unique opportunity to bring commercial development



Enhance Quality of Life and Community Benefits



LAKE CALUMET BIKE TRAIL

2-mile new multi-use trail provides access to Lake Calumet



RESTORE SQUARE MARSH

Improve habitat and water quality for 138-acre natural area



116%



COLLABORATION IS KEY



AMERICAN
GREAT LAKES PORTS
ASSOCIATION

Northwestern



INSTITUTE FOR
SUSTAINABILITY AND ENERGY



MARTIN
ASSOCIATES

CONNECTING
COOK COUNTY
Beyond Transportation



delta
institute



FEMA



QSL



CHICAGO

TRANSYSTEMS

The Nature
Conse

SERSTEIN



Chicago Metropolitan
Agency for Planning



116%



FUN WITH NUMBERS AND GREAT LAKES SHIPPING

IN 2022, ON THE GREAT LAKES -
ST. LAWRENCE SEAWAY SYSTEM:



CARGO
MOVED

135.7 M
metric tons

IN 2022, ON THE GREAT LAKES -
ST. LAWRENCE SEAWAY SYSTEM:

ECONOMIC
ACTIVITY
GENERATED



\$36
billion (USD)

\$46.8
billion (CDN)

IN 2022, ON THE GREAT LAKES -
ST. LAWRENCE SEAWAY SYSTEM:



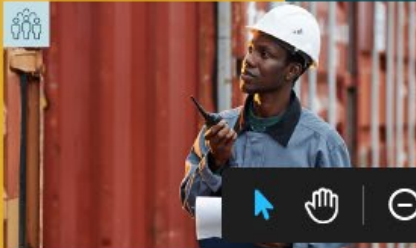
TAXES
PAID

\$6.3
billion (USD)

\$8.3
billion (CDN)

IN 2022, ON THE GREAT LAKES -
ST. LAWRENCE SEAWAY SYSTEM:

241,286 jobs
SUPPORTED



IN 2022, ON THE GREAT LAKES -
ST. LAWRENCE SEAWAY SYSTEM:



WAGES
PAID

\$17.8
billion (USD)

\$23.2
billion (CDN)

THANK YOU

VISIT THE IIPD WEBSITE

WWW.IIPD.COM

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Aviation and Marine Update

BJ Murray

Aviation & Marine Transportation
Program Planning Section Chief
Illinois Department of Transportation



Freight Plan Update

Adam Gabany

Intermodal Planning Unit Chief
Illinois Department of Transportation



FREIGHT UPDATE

2023 Illinois Freight Plan

- Approved July 25, 2023
- [Freight Plan Link](#)

District Freight Plan Development

- One for each District
- County Profiles



Illinois 2023
State Freight Plan



DISTRICT FREIGHT PLAN

Localized Freight Plan

- Under Review
- Freight and the Economy
- Overview of Freight System
- Equity and Environmental Justice
- Trends, Opportunities, and Investments
- County Profiles

FIGURE 2.1 DISTRICT 9 FREIGHT GENERATORS AND MULTIMODAL TRANSPORTATION NETWORK



Source: IDOT, FHWA



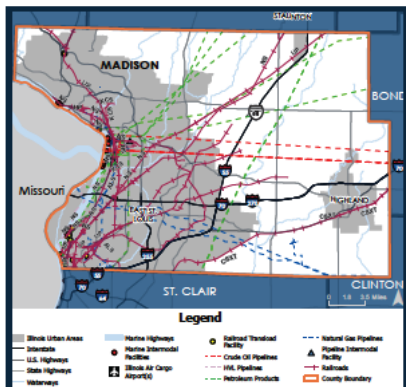


Freight is a critical component to Illinois' economy and way of life for millions of residents and businesses of the state. The Illinois 2023 State Freight Plan provides a comprehensive overview of freight in the state. This County Profile provides an at-a-glance overview of how, where, and what freight is moved within Madison County.

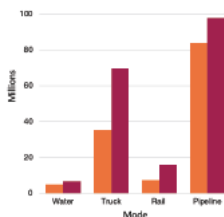
Existing Freight Infrastructure:



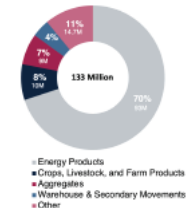
Madison County Freight Map:



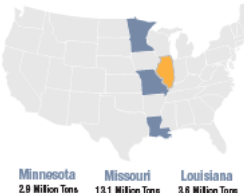
Freight Tonnage by Mode & Year



Freight Type by Tonnage (2019)

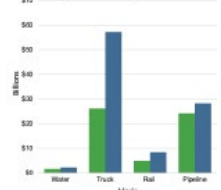


Top Trading Partners by Tonnage (2019)

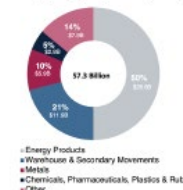


County Profile

Freight Value by Mode & Year



Freight Type by Value (2019)



Top Trading Partners by Value (2019)



Truck Freight By The Numbers

Total Tonnage: 35.4 Million Tons

Economic Value: \$26 Billion

Top Trading Partners: 11.6 million tons of goods were exported to states such as Missouri, Indiana, and Ohio in 2019.

Future Projections: By 2050, truck freight is expected to increase to 70 million tons with a projected value of \$57 billion.

Top Truck Freight



Rail Freight By The Numbers

Total Tonnage: 7 Million Tons

Economic Value: \$5 Billion

Top Trading Partners: 4 million tons of goods were exported to states such as Missouri, Louisiana, and Indiana in 2019.

Future Projections: By 2050, rail cargo is expected to increase to 16 million tons with a projected value of \$8 billion.

Top Rail Freight



COMPETITIVE FREIGHT PROGRAM Highlights

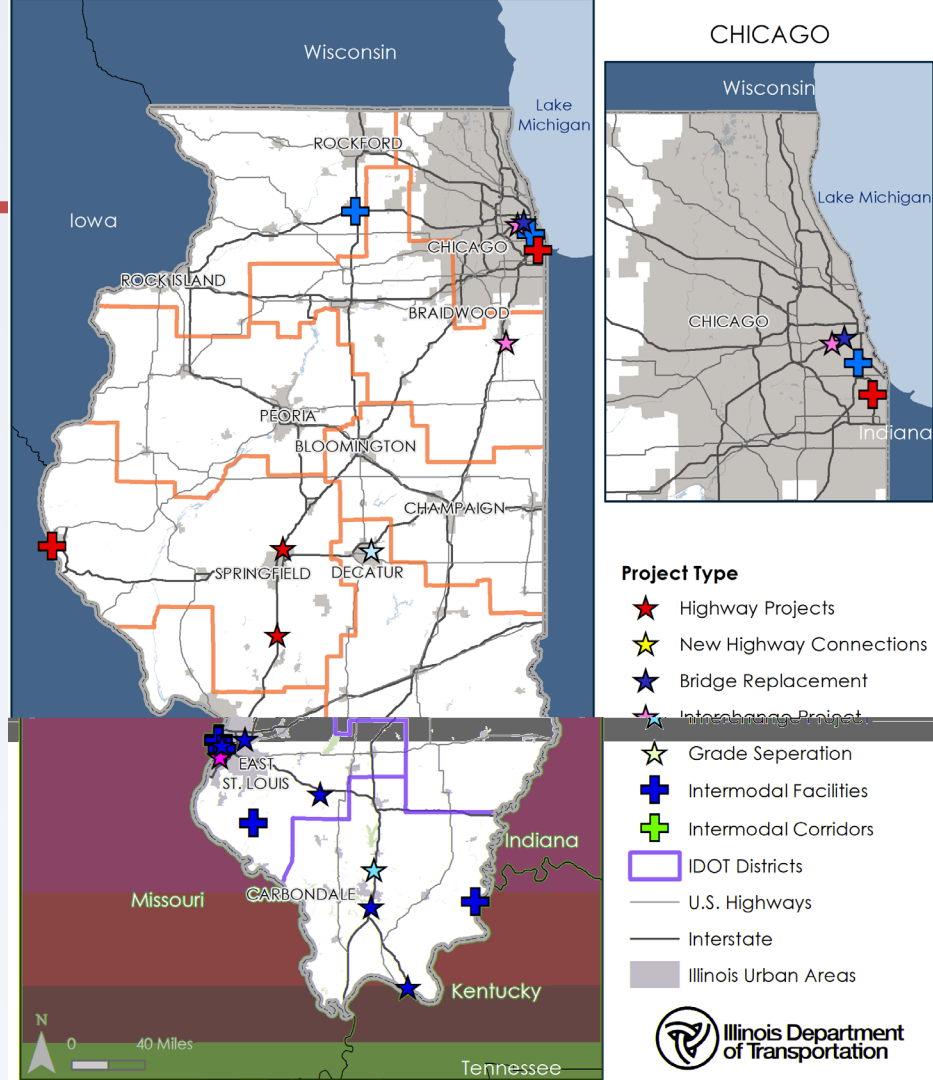
Project Highlights

- 35 Project Applied
- 22 Projects Awarded in April
- 13 Local Projects
- 9 State Projects
- Roughly 30% on Intermodal Projects
- \$197.5 Millions in Projects
- Including match and other Federal funds, the program funds \$441 million in total project costs.



2023 CFP Awards by Type of Project

Project Type	Number of Awards
Highway	
Highway Projects	7
New Highway Connections	1
Bridge Replacements	1
Interchange Projects	3
Highway-Rail Grade Separations	1
Intermodal	
Intermodal Facility Improvements	7
Intermodal Corridor Projects	2



Awarded Projects: Highway Pre-Construction

Project Name	Sponsor	National Highway Freight Program Award	Total Cost	Description
Illinois 127 Reconstruction	IDOT	\$4 Million	\$5 Million	Phase I study for widening or other improvements on IL 127
Illinois 203 Profile Raise	IDOT	\$1.6 Million	\$2 Million	Phase I study to eliminate sag vertical curve and other improvements
I-55/I-70	IDOT	\$10 Million	\$20 Million	Phase I study to evaluate interchange configurations given increasing traffic volumes on I-55/I-70 between I-255 and I-270
Illinois 3 Diversion	Sauget	\$772 Thousand	\$2.4 Million	Phase II study of a diversion route around two at-grade rail crossings.
I-57 and Illinois 149 Interchange	West Frankfort	\$18.3 Million	\$24.7 Million	Phase II study for I-57 to Illinois 149 Interchange modifications



Awarded Projects: Highway Construction

Project Name	Sponsor	National Highway Freight Program Award	Total Cost	Description
Illinois 50 Over Chicago Sanitary and Ship Canal	Chicago DOT	\$18.8 Million	\$33.7 Million	Improvements to a bridge connecting the Pilsen and Stockyards Industrial District with I-55 and I-290.
Brush College Road / Faries Parkway	City of Decatur	\$10 Million	\$61.1 Million	Grade separation on Brush College Road over Faries Parkway and NS Tracks
I-57 Safety Improvements	IDOT	\$30 Million	\$48 Million	Adds travel lanes and safety improvements to an eight-mile section of I-57 near Marion.
Rail Splitter Rest Area	IDOT	\$2.2 Million	\$20.2 Million	Truck parking improvements
Fort Massac Rest Area	IDOT	\$2 Million	\$11.7 Million	Truck parking improvements
Coalfield Rest Area	IDOT	\$3 Million	\$18.5 Million	Truck parking improvements
Illinois 50 and I-55 Interchange	IDOT	\$7 Million	\$8.75 Million	Geometric and traffic signal improvements on Cicero Ave.
I-57 and Illinois 17 Interchanges	IDOT	\$40 Million	\$95 Million	Interchange reconfiguration and bridge reconstructions



Awarded Projects: Intermodal Pre-Construction

Project Name	Sponsor	National Highway Freight Program Award	Total Cost	Description
Terminal Railroad Association of St. Louis 3 rd Main	Bi-State Development	\$15.2 Million	\$25.7 Million	Engineering study to evaluate a third main track in East St. Louis from Willows Interlocking to Madison Yard
75 th Street CIP	Cook County DOTD	\$14 Million	\$19.9 Million	Land acquisition for EW2 and P2 project of the CREATE Program
Congestion Reduction and Safety	Kaskaskia Regional Port District	\$4.3 Million	\$5.4 Million	Phase I study of a rail track to facilitate the port's intermodal transfer of steel and fertilizer
Intermodal Project	Mid-America Port District	\$145 Thousand	\$182 Thousand	Phase I study of additional rail and a transload system on the Marblehead Spur line
New Port Access Road	Shawneetown	\$400 Thousand	\$500 Thousand	Phase I study for constructing additional roadway to connect to port grain facilities.



Awarded Projects: Intermodal Construction

Project Name	Sponsor	National Highway Freight Program Award	Total Cost	Description
Road Improvement Phase III	America's Central Port	\$2.1 Million	\$2.625 Million	Reconstruction of a roadway that serves the port's main industrial park.
Dock Phase II	America's Central Port	\$3.636 Million	\$4.545 Million	Reinforcing and expansion of port dock infrastructure.
Butler Drive	Cook County DOTD	\$4.8 Million	\$24.4 Million	Reconstruction of Butler Drive from Doty Ave. to Stony Island Ave.
Northeast Illinois Transload Intermodal Expansion	Rochelle	\$5.2 Million	\$6.8 Million	Expansion of industrial track, construction of a box culvert, and stormwater and drainage improvements.



RAIL UPDATE

Illinois State Rail Plan

- Scheduled to be Completed by Fall 2023

Illinois High Speed Railway Commission

- The Commission is to create a statewide plan for a high-speed line that connects Chicago and St. Louis, with existing Amtrak and Metra services
- Inaugural Meeting on April 11, 2023
- <https://idot.illinois.gov/transportation-system/transportation-management/planning/rail/high-speed-rail-commission.html>



State Legislative Update

Matt McAnarney
Legislative Affairs
Illinois Department of Transportation



United States Department of Transportation Update

Chad Dorsey
Director, Inland Waterways Gateway
Paducah
Maritime Administration



United States Department of Transportation Update

Betsy Tracy
Transportation Planning Specialist
Federal Highway Administration



U.S. Department
of Transportation

**Federal Highway
Administration**



Around the Room

- Name
- Organization
- Discussion Topic





THANK YOU!

For questions or to be on the schedule during an upcoming meeting, email:

DOT.ILFreightPlanning@illinois.gov