

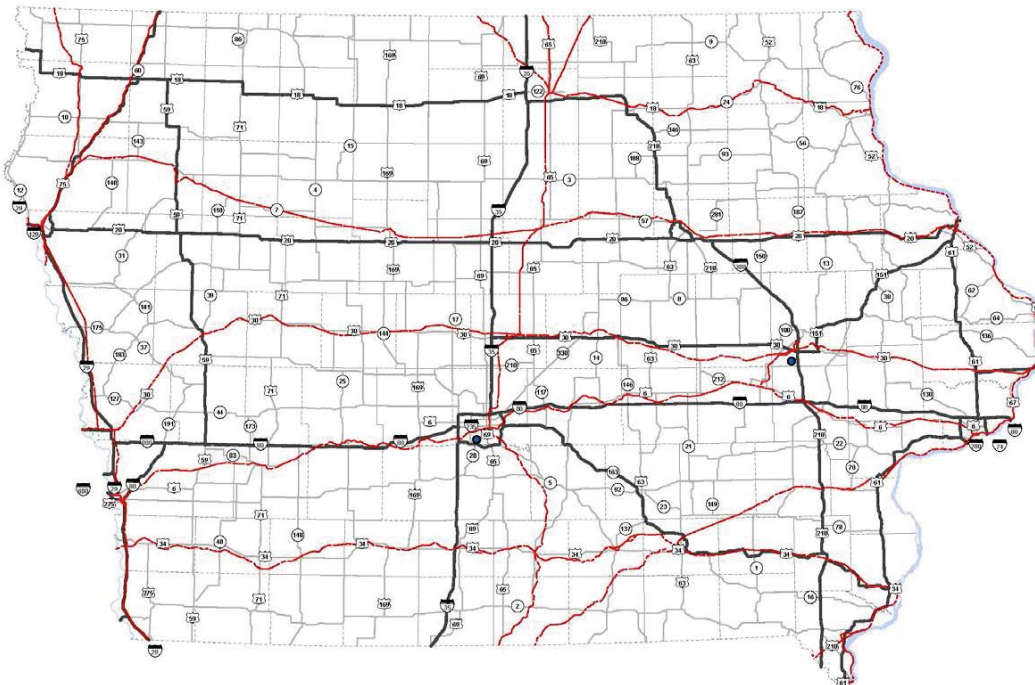


State Freight Plan Bottlenecks & Improvements

MPO/RPA Quarterly Meeting | September 22, 2021



Iowa Multimodal Freight Network



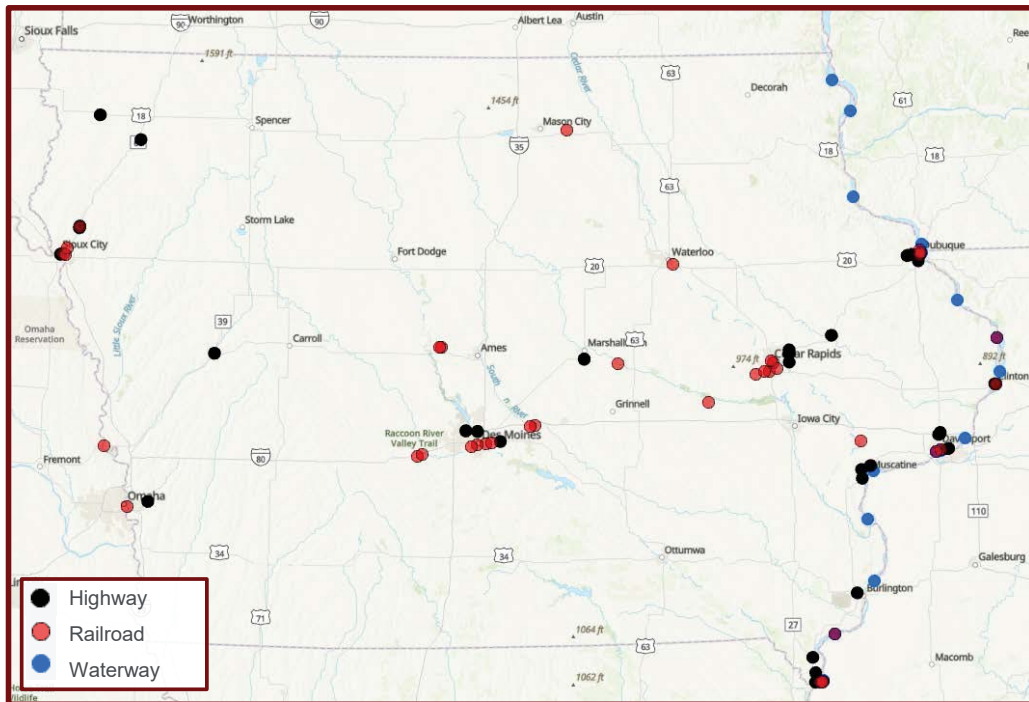
Multimodal bottlenecks

- Objective
 - Identify freight bottleneck locations to mitigate for improved freight mobility
- Identification and prioritization
 - Air
 - Highway
 - Railroad
 - Inland waterway

Multimodal bottlenecks

MODE	SOURCE(S)	PROCESS	RESULTS
Air	Iowa DOT Aviation Team, Des Moines International Airport, and Eastern Iowa Airport	Survey to identify any freight mobility issues at major cargo airports.	N/A
Highway	INRIX traffic data and Iowa DOT truck traffic counts	Analysis of locations with recurring slow-downs and heavy truck traffic.	28 locations
Railroad	Iowa rail companies	Multiple surveys to identify choke points.	38 locations
Waterway	U.S. Army Corps of Engineers	Analysis of age, average delay, and unavailability of locks and swing-span bridges.	19 locations

Multimodal bottlenecks



Freight improvements

- Objective
 - Identify priority locations to target for improved freight mobility
- Identification and prioritization
 - Air
 - Highway
 - Railroad
 - Inland waterway

Air

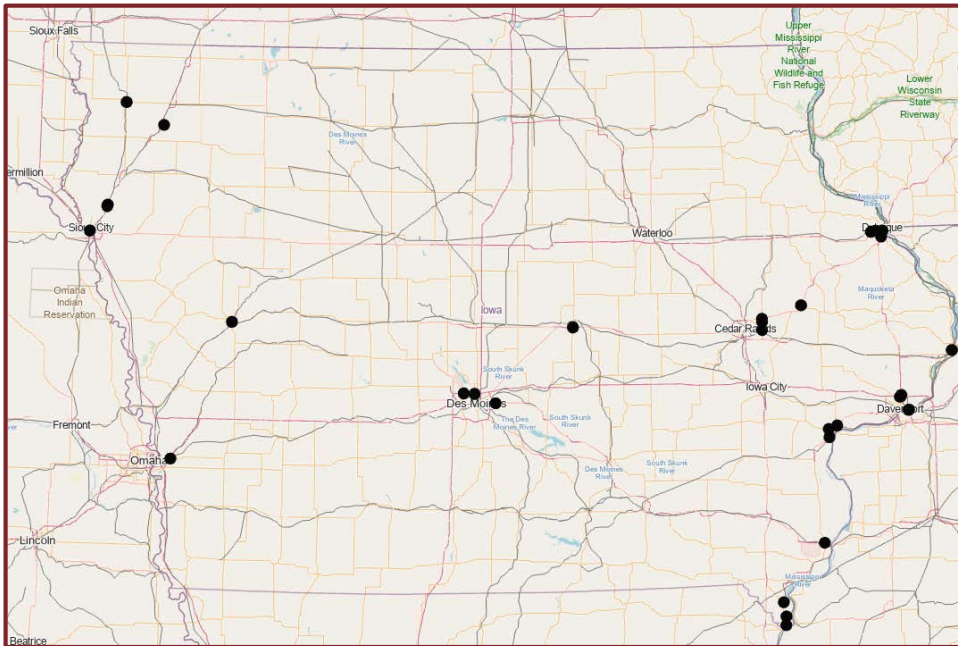
- Des Moines International Airport
 - Completed new FedEx facility and runway reconstruction
 - Development plan includes cargo-related development as demand increases
- Eastern Iowa Airport
 - Three cargo ramps and cargo buildings are 90% utilized
 - 2021 Master Plan update underway to help guide development of 76 acres set aside for cargo handling



Highway

- Value, Condition, and Performance (VCAP)
- Prioritize highway bottleneck locations by:
 - value (iTRAM)
 - condition (ICE)
 - performance (INRIX)
- Includes:
 - 28 priority locations on the state freight network

Highway improvements



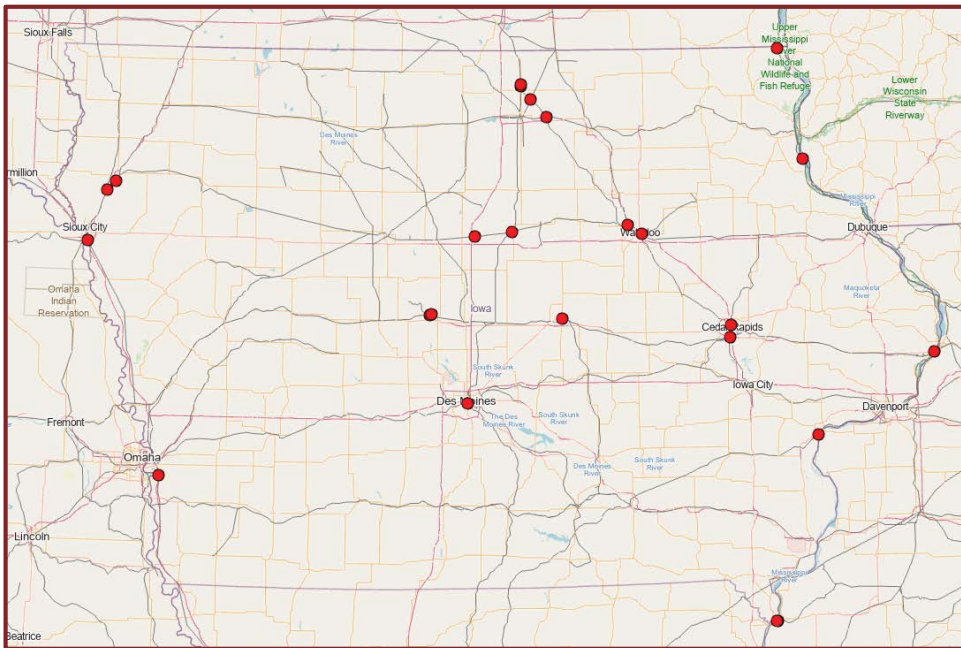
VCAP – Top 10

1. US 52 at US 61/US 151 (Dubuque)
2. NE 70th Street at Iowa 163 (Altoona)
3. US 61 at Grandview Ave (Muscatine)
4. US 151/Iowa 13 at Mt Vernon Rd (Cedar Rapids)
5. US 20 at US 61/US 151 (Dubuque)
6. US 218 at US 61 (Keokuk)
7. Iowa 22 at US 61 (Muscatine)
8. US 61 at Iowa 38 (Muscatine)
9. US 59 at Iowa 39 (Denison)
10. US 75 at C60 (Hinton)

Railroad

- Projects provided by:
 - Railroads operating in Iowa
- Compiled in 2017; updated 2020 & 2021
- Includes:
 - 42 short-range projects (1-5 years)
 - 64 long-range (5+ years)
 - Of the above, 31 short-range and 55 long-range on the state freight network

Railroad improvements



Map includes short-range freight railroad improvements on the state freight network

Map does not include any statewide grade crossing improvement and upgrade projects

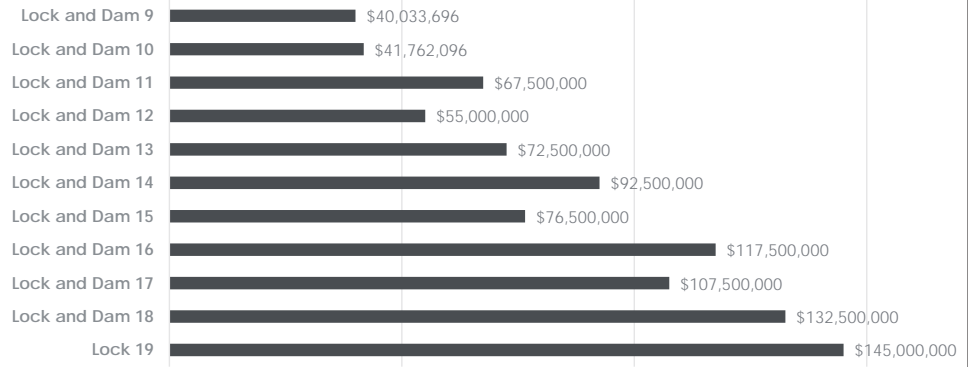
Full project list is included in the Iowa State Rail Plan

Waterway

- Projects provided by:
 - U.S. Army Corps of Engineers
 - St. Paul District (LD 9 & 10)
 - Rock Island District (LD 11-19)
- Includes:
 - 31 priority maintenance projects on the state freight network
 - Deferred/backlog major rehab, repairs, and maintenance by lock



Inland waterways deferred maintenance cost estimate



Prioritized maintenance - Top 10 projects

1. Lock 18 Miter Gate Anchorage Replacement
2. Lock 17 Miter Gate Anchorage Replacement
3. Lock 19 PLC System Replacement
4. Lock 17 Upstream Guide wall Sheet pile Transition Wall Repair
5. Lock 13 Filling and Emptying System Replacement
6. Lock 19 Hydraulic Cylinder Rod Replacement
7. Dam 13 Spillway Seepage Cutoff Wall Repairs
8. Lock 14 - Auxiliary Lock/MRPO Guide wall
9. Lock 18 Access Road Repairs
10. 6 Sites Dam Gate Trunnion Repairs



THANK YOU FOR YOUR TIME AND ATTENTION



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