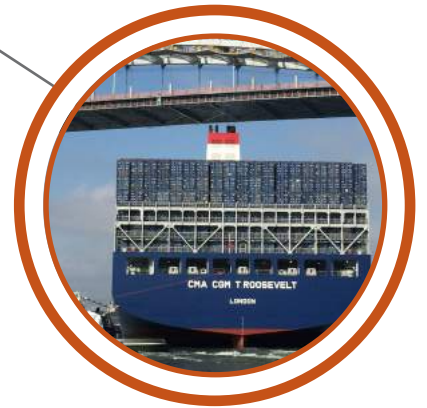




# New Jersey Statewide **FREIGHT PLAN**

## Appendix







# APPENDIX A OUTREACH MATERIALS



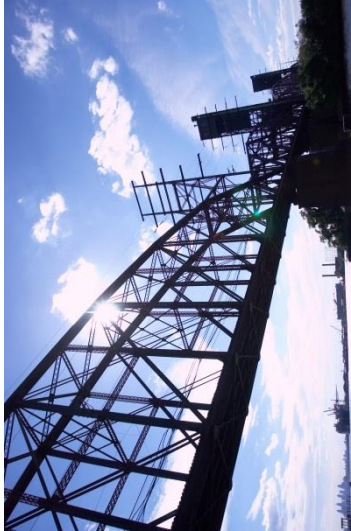


# FAC MEETING #1

26 OCTOBER 2017



# New Jersey Freight Advisory Committee



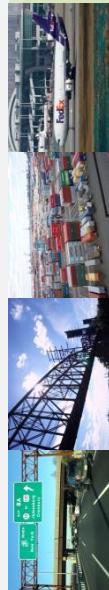
# TODAYS AGENDA

- **Welcome and Introductions**
- **Purpose of the Freight Advisory Committee**
- **NJ Statewide Freight Plan**
  - **Scope and Schedule**
  - **State Goals and Objectives**
  - **Current Networks**
  - **Upcoming Work Efforts**
- **Other Freight Topics**
- **Next Meeting**





# WHO'S ON THE FAC



# PURPOSE OF THE FREIGHT ADVISORY COMMITTEE

- Coordinate and advance Freight Planning and Action in New Jersey
- Identify key issues, freight needs, and opportunities in the region
- Provide data sharing on freight information when possible

- Support the development of:
  - NJ Statewide Freight Plan
  - Regional Freight Planning projects (NJTPA, GMAP, DVRPC, SJTPO, NYSDOT/PennDOT, LVPC/NYMTC)
  - Tiger Grant Applications
  - Fast Act Funding Applications

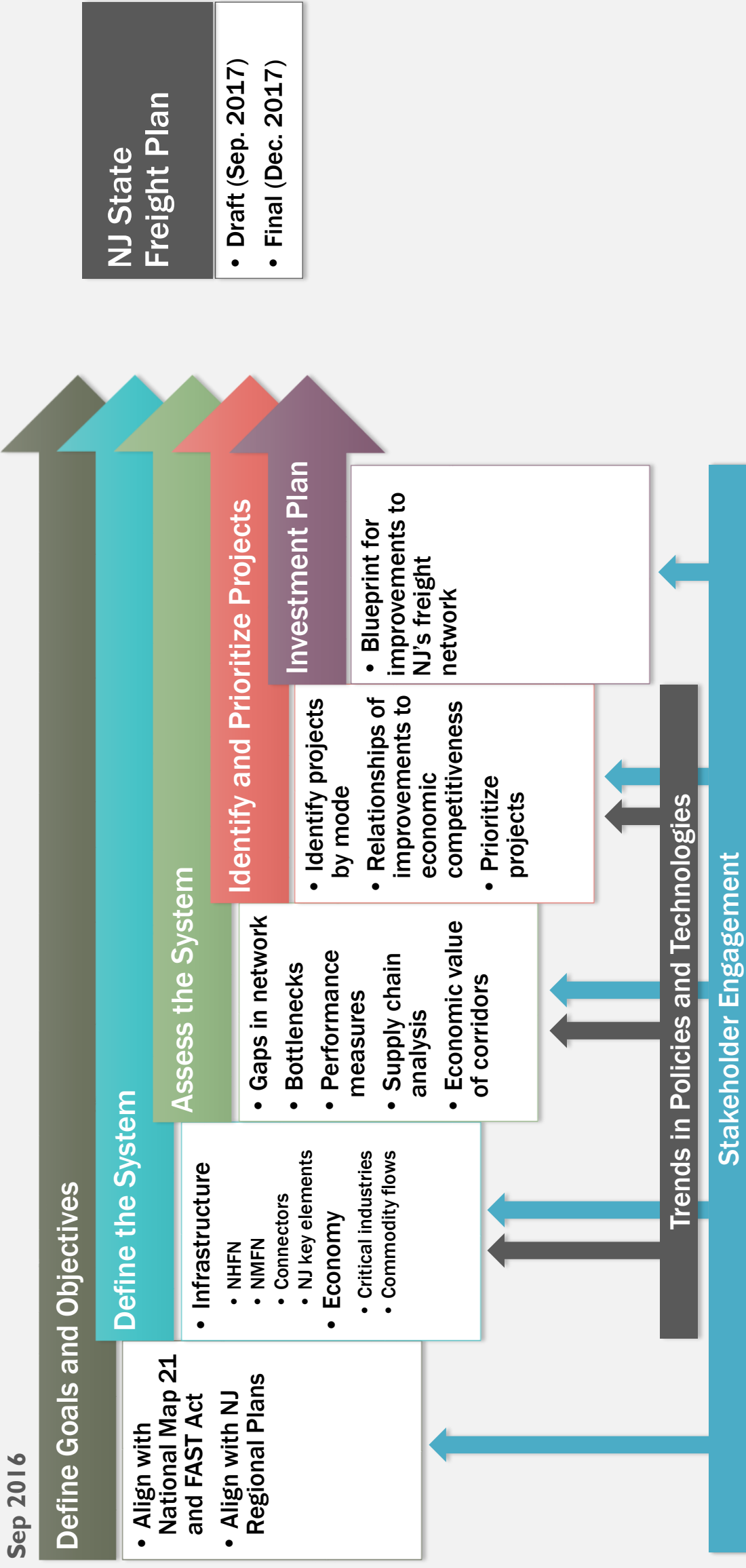


# NEW JERSEY STATEWIDE FREIGHT PLAN

- **Update of the 2007 Plan**
  - Review and update what has changed
- **Incorporate recent regional planning efforts**
  - Regional Goods Movement Action Program (GMAP)
  - State Rail Plan
  - NJTPA Freight Commodity Profiles
  - DVRPC Philly Freight Finder

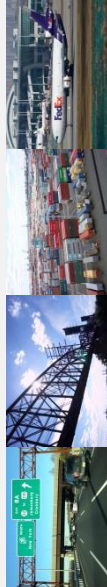


# NJ STATEWIDE FREIGHT PLAN SCOPE AND SCHEDULE

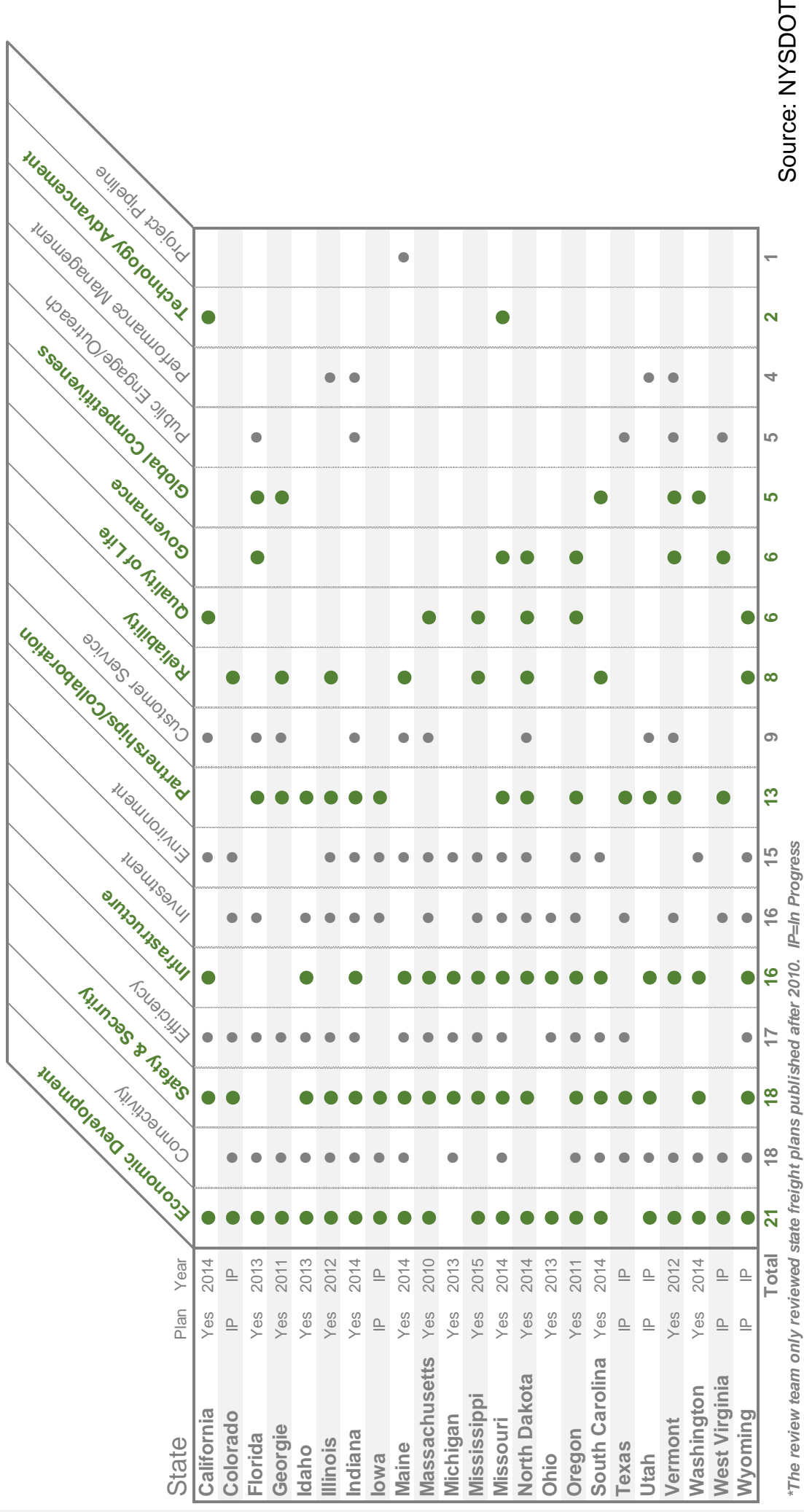


# NATIONAL FREIGHT GOALS

- Invest in **infrastructure improvements** and to implement operational improvements that:
  - strengthen the contribution of the national freight network to the **economic competitiveness** of the United States;
  - **reduce congestion**; and
  - **increase productivity**, particularly for domestic industries and businesses that create high-value jobs.
- Improve the **safety, security, and resilience** of freight transportation.
- Improve the **state of good repair** of the national freight network.
- Use **advanced technology** to improve the **safety and efficiency** of the national freight network.
- Incorporate concepts of **performance, innovation, competition, and accountability** in the operation/maintenance of the national freight network.
- Improve the **economic efficiency** of the national freight network.
- Reduce the **environmental impacts** of freight movement on the national freight network.



# OTHER STATE FREIGHT PLAN GOALS AND OBJECTIVES



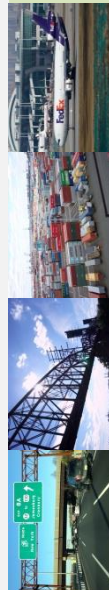
Source: NYSDOT

\*The review team only reviewed state freight plans published after 2010. IP=In Progress

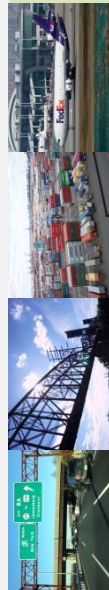
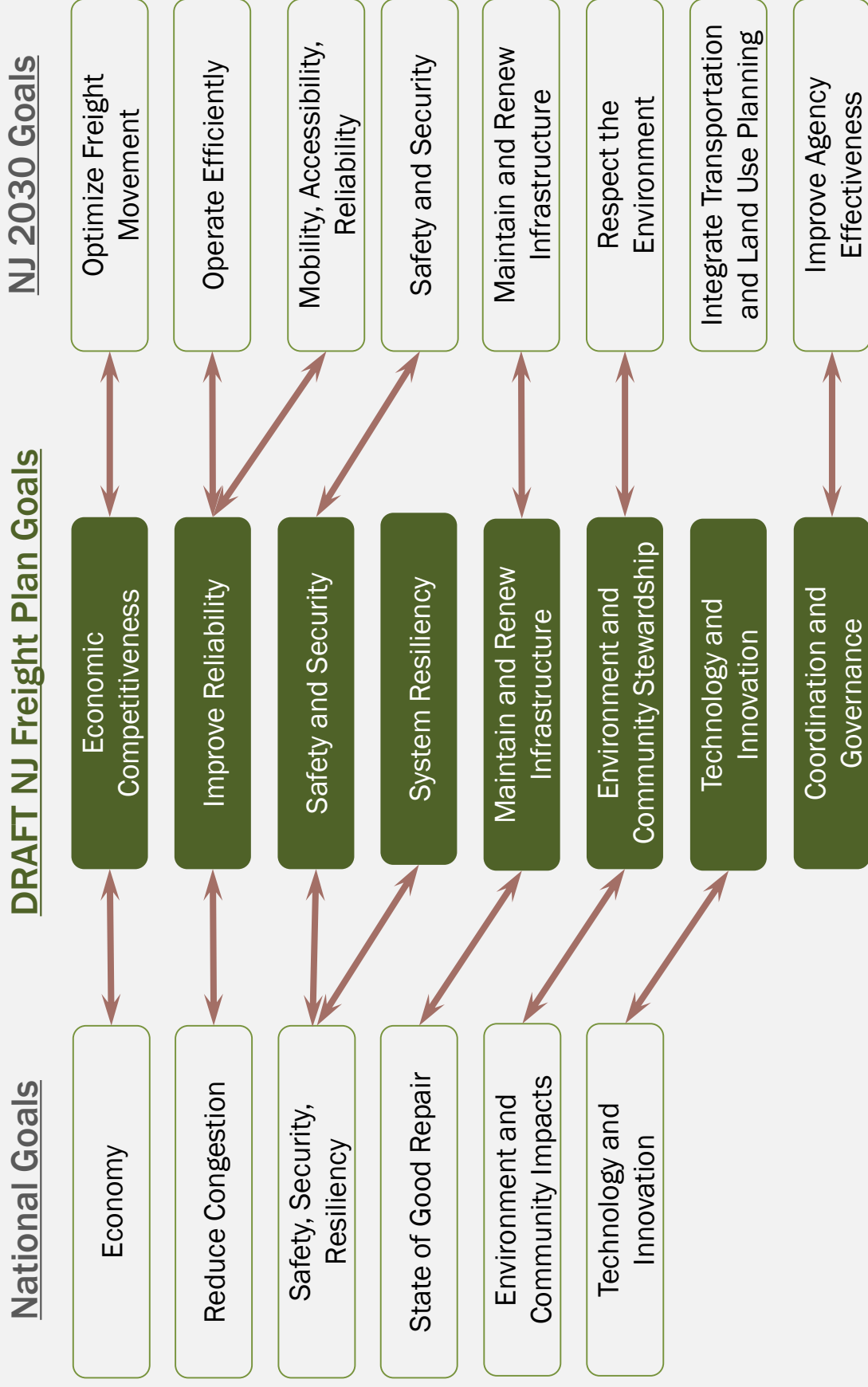


# OTHER NJ REGION PLANNING GOALS AND OBJECTIVES

	Coordination/Governance	Economy/Supply Chain Operations/Competitiveness	Mobility; Efficiency	Infrastructure (Investment/Maintain & Renew/Preserve)	Environment	Safety and Security	Recognize Value of Freight	Integrate Transportation and Land Use	Funding and Finance	Accessibility	Multimodal	Technology, Innovation
National Freight Goals	●	●	●	●	●	●						●
NJ Freight Plan 2007	●	●	●	●	●							
NJ State Rail Plan	●	●	●	●	●							
NJ Long Range Plan, Transportation Choices 2030	●	●	●	●	●		●		●			
NJTPA Regional Transportation Plan 2040	●	●	●	●	●	●	●	●	●	●		●
G-MAP	●	●	●	●	●		●					
DVRPC Long Range Freight Plan		●		●	●	●	●					
SJTPO Regional Plan 2040		●		●	●		●		●		●	
Southern NJ Freight and Logistics Industry Context and Economic Growth	●	●	●									
Southern NJ Freight Transportation and Economic Development Assessment	●	●	●	●								
<b>Total</b>	<b>5</b>	<b>8</b>	<b>8</b>	<b>9</b>	<b>9</b>	<b>6</b>	<b>2</b>	<b>4</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>



# DRAFT GOALS AND OBJECTIVES





# DRAFT NEW JERSEY GOALS AND OBJECTIVES

Support existing and emerging freight-dependent businesses, maintain and enhance the State's economic competitiveness and productivity, and retain and generate New Jersey jobs by providing freight shippers and receivers with an effective, attractive multimodal freight transportation system for moving goods to, from, within, and through the state

- **Strengthen Economic Competitiveness**

- **Improve Reliability**  
Improve the efficiency and reliability of goods movement across all modes of the freight transportation system

- **Improve Safety and Security**  
Ensure the protection of people, cargo, and infrastructure

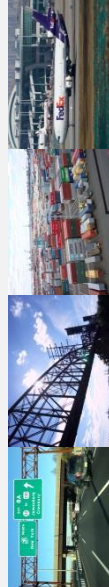
- **Enhance System Resiliency**  
Improve system redundancy and the ability of the freight network and infrastructure to withstand and recover from natural disasters and other unforeseen events

- **Maintain and Renew Infrastructure**  
Prioritize maintenance actions and strategic investments to ensure the freight transportation system is in a state of good repair and provides efficient multimodal goods movement

- **Support Environmental Stewardship, Local Communities, and Quality of Life**  
Promote freight as a good neighbor, encourage environmentally friendly and sustainable practices, and operate a freight transportation system that preserves New Jersey's natural, historic, and cultural resources and supports a high quality of life in New Jersey's local communities

- **Leverage Innovative Technology and Practices**  
Utilize emerging, innovative technology, practices, and programs as strategies to enhance New Jersey's economic competitiveness, improve system efficiency and reliability, and reduce costs

- **Facilitate Interagency Coordination and Governance**  
Foster cooperation, coordination, and partnerships among state, regional and local government agencies, private sector partners, and other stakeholders to promote effective investment in and operation of the freight transportation system



# NATIONAL HIGHWAY FREIGHT NETWORK

- NHFN includes:
  - **Primary Highway Freight System (PHFS):** Most critical highway portions of the U.S. freight transportation system (Interstate/Non-Interstate)
  - **Other Interstate portions not on the PHFS:** The remaining portion of Interstate roads not included in the PHFS
  - **Critical Rural or Urban Freight Corridors (CRFC or CUFC):** Public roads in non-urbanized (CRFC) or urbanized (CUFC) area which provide access and connection to the PHFS and the Interstate with other important ports, public transportation facilities, or other intermodal freight facilities



# CRITICAL RURAL FREIGHT CORRIDORS

- **Meet at least one of the following:**
  - Rural principal roadway and truck traffic (in PCU)  $\geq$  25% AADT
  - Connect the PHFS or the Interstate System to facilities handling:
    - > 50,000 20-foot equivalent units (TEUs) per year, or
    - > 500,000 tons per year of bulk commodities
  - Connect to an international port of entry
  - Provides access to:
    - energy exploration, development, installation, or production areas
    - a grain elevator, an agricultural facility, a mining facility, a forestry facility, or an intermodal facility
    - significant air, rail, water, or other freight facilities in the State
  - Corridor determined by the State as vital to improving the efficient movement of freight



# CRITICAL URBAN FREIGHT CORRIDOR

- **Meet at least one of the following:**
  - Connects an intermodal facility to the PHFS, the Interstate System, or an intermodal freight facility
  - Is located within a corridor of a route on the PHFS and provides an alternative highway option important to goods movement
  - Serves a major freight generator, logistic center, or manufacturing and warehouse industrial land
  - Is important to the movement of freight within the region, as determined by the MPO or the State



# INTERIM NATIONAL MULTIMODAL FREIGHT NETWORK

- NHFN Roadways
- Freight rail systems of Class I railroads
- U.S. public ports that have total annual foreign and domestic trade of at least 2 million short tons
- U.S. inland and intracoastal waterways
- Great Lakes, the St. Lawrence Seaway, and coastal and ocean domestic freight routes
- 50 U.S. airports with the highest annual landed weight
- Other strategic freight assets, including strategic intermodal facilities and other freight rail lines



# NEW JERSEY FREIGHT NETWORKS

- Current NHFN and NMFN
- Proposed additions
- CUFC/CRFC
- Critical NJ elements not on Federal network to include in plan
- Discussion on facilities to add to the network



# UPCOMING TASKS

- **Data collection**
  - What do you have that we need?
- **Interviews**
  - Critical Industries Assessment
- **System Assessment**
  - Finalize network and assess needs
  - Come prepared to discuss the network and needs



# OTHER FREIGHT TOPICS

**What other key issues should this group tackle?**





**THANK YOU**

***Paul Truban***

NJDOT

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609-530-3521

***Jenn Grenier***

WSP | Parsons Brinckerhoff

[Grenier@pbworld.com](mailto:Grenier@pbworld.com)

732-857-6131







# FAC MEETING #2

24 JANUARY 2017



# New Jersey Freight Advisory Committee



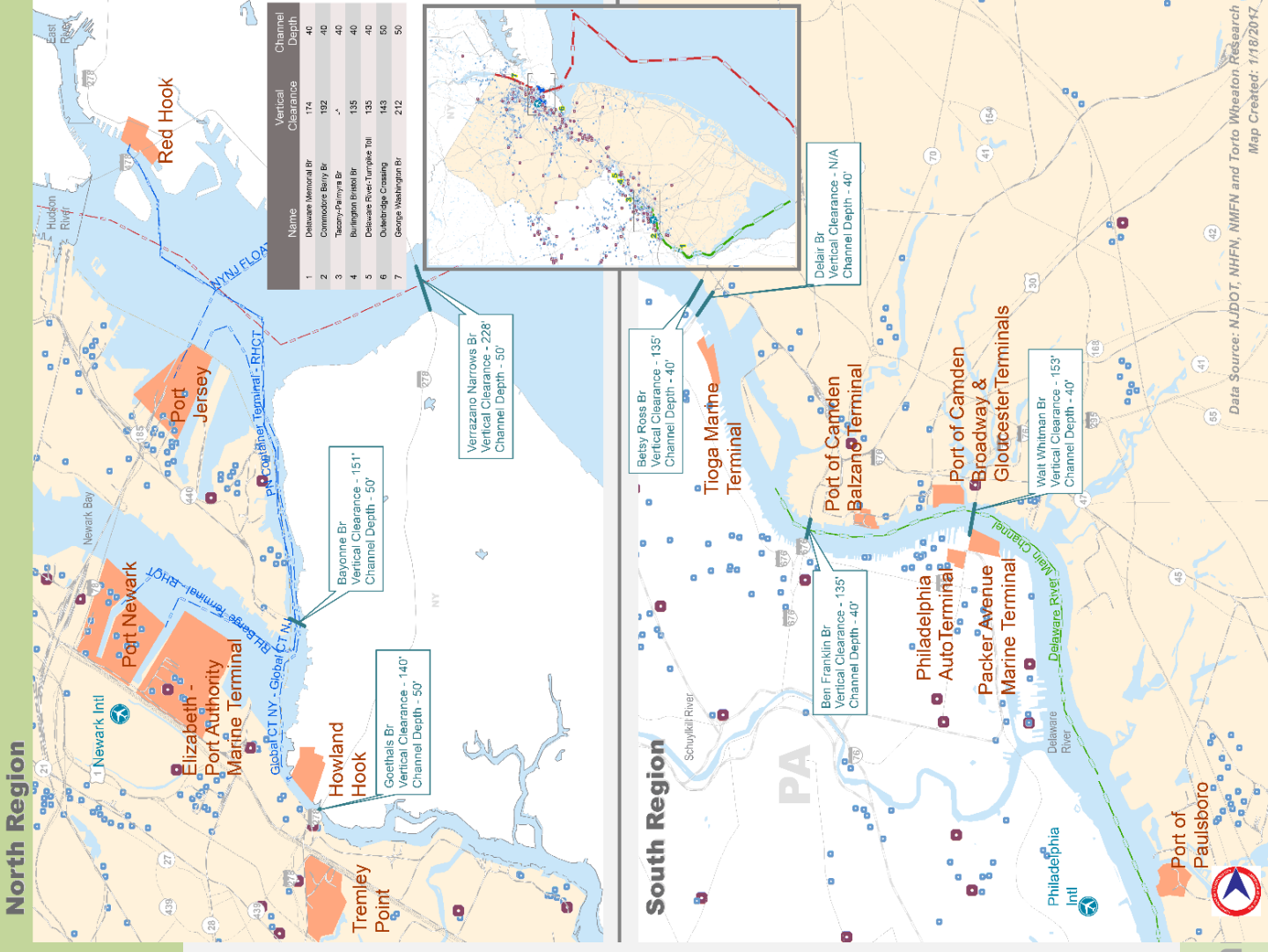
# TODAYS AGENDA

- **Introductions**
- **Review of October FAC Action Items**
- **Review of National Networks**
  - **Maritime**
  - **Rail (Critical NJ Corridors)**
  - **Highway (CUFC/CRFC)**
- **Upcoming Work Efforts**
  - **Interviews**
  - **System Assessment**
  - **Truck Parking Subcommittee**
- **Next Meeting**



# MODAL NETWORKS - MARITIME

- What are the key maritime facilities in NJ?
- Are there key channels not represented?
- How will Port Newark/Elizabeth (and highway/rail linkages) handle 14,000 TEU ships?



**Freight Marine Component**

- Airport
- Bridges
- Railways
- Ports (PANYNJ / SJPC)
- Warehousing, Manufacturing, and Light Industrial Operations
- NMFM Marine Highways
- NMFM Marine Highway (Proposed)
- NJ Marine Highway (Key Additional Routes)

0 1.75 3.5 Miles

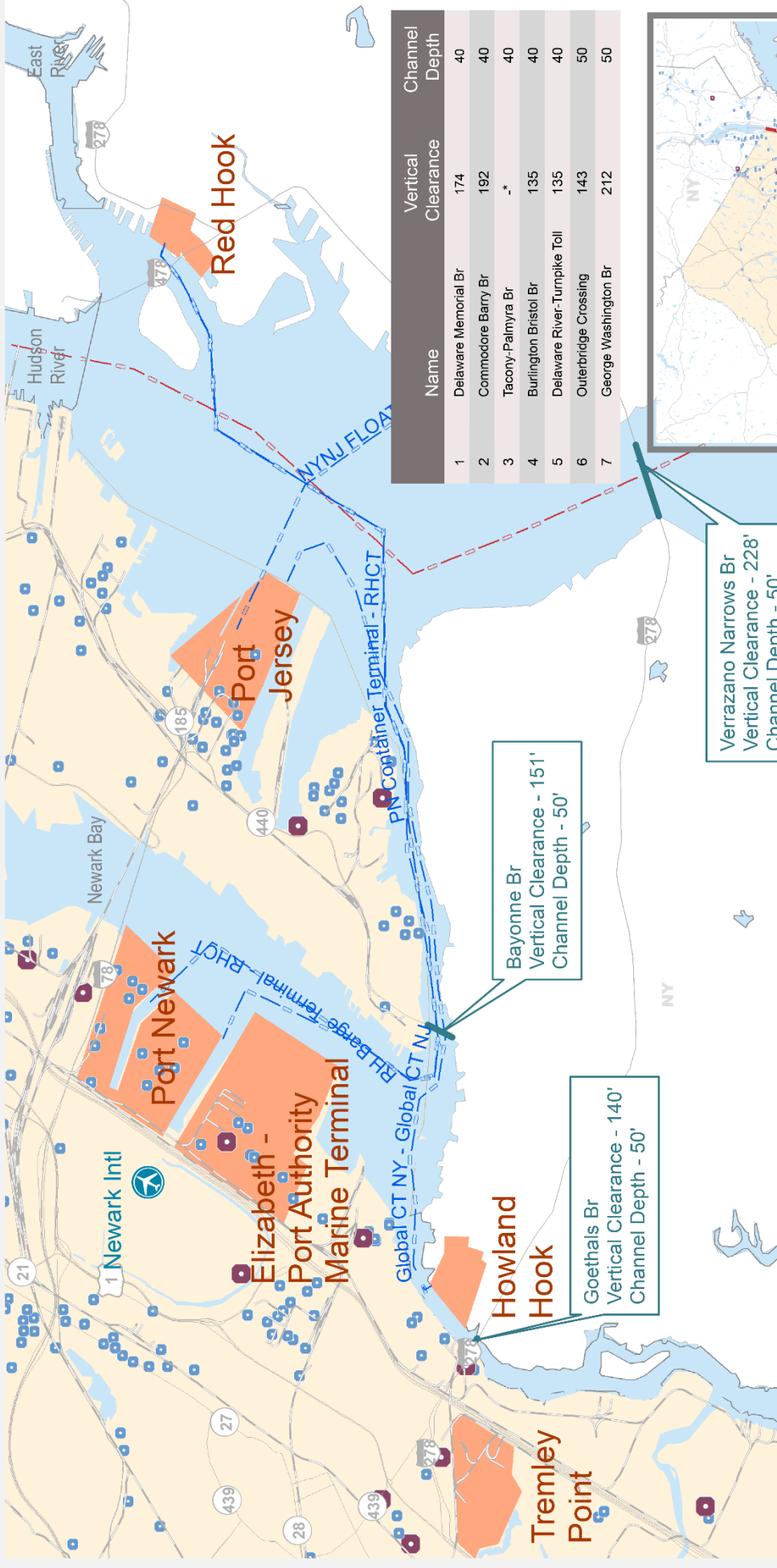
100k to 499k  
500k+

Data Source: N.JDOT, NHHF, NMFM and Torto Wheaton Research  
Map Created: 1/18/2017

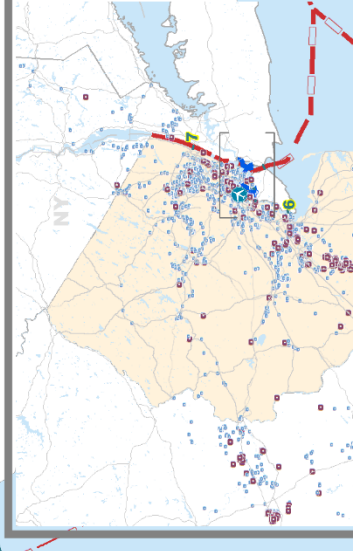
# MODAL NETWORKS - MARITIME

- What are the key maritime facilities in NJ?
- Are there key channels not represented?
- How will Port Newark/Elizabeth (and highway/rail linkages) handle 14,000 TEU ships?

## North Region



Name	Vertical Clearance	Channel Depth
1 Delaware Memorial Br	174	40
2 Commodore Barry Br	192	40
3 Tacony-Palmyra Br	-*	40
4 Burlington Bristol Br	135	40
5 Delaware River-Turplike Toll	135	40
6 Outerbridge Crossing	143	50
7 George Washington Br	212	50



**Freight Marine Component**

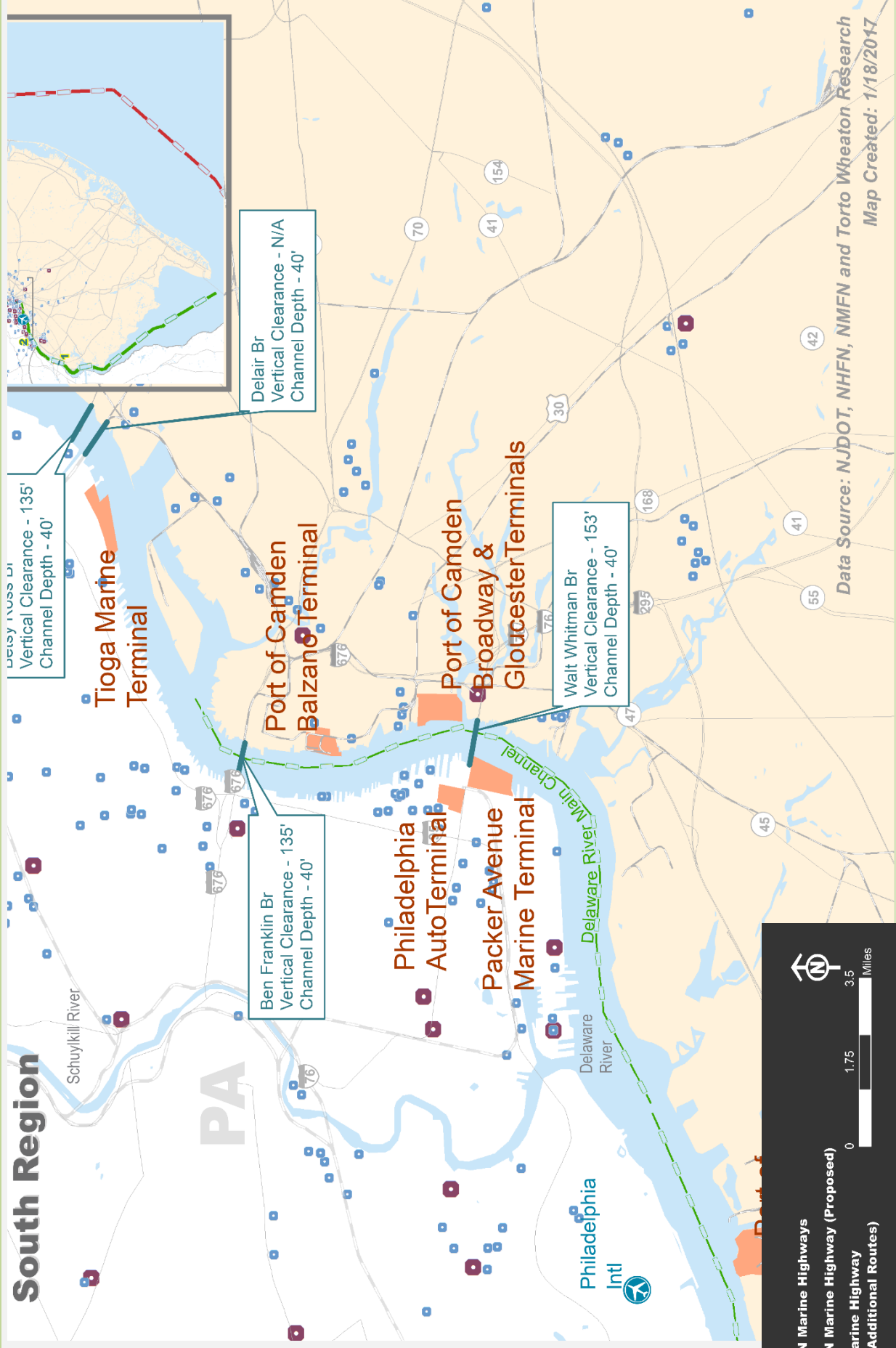
- Airport
- Bridges
- Railways
- Ports (PANYNJ / SJPC)
- Warehousing, Manufacturing, and Light Industrial Operations
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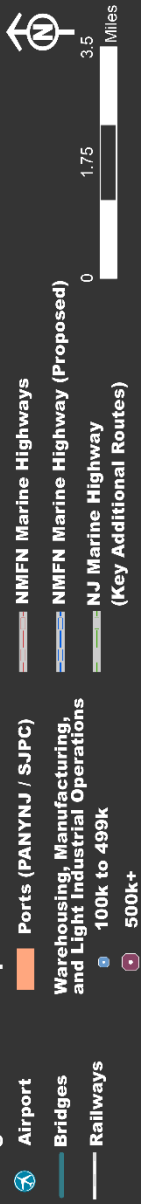


# MODAL NETWORKS - MARITIME

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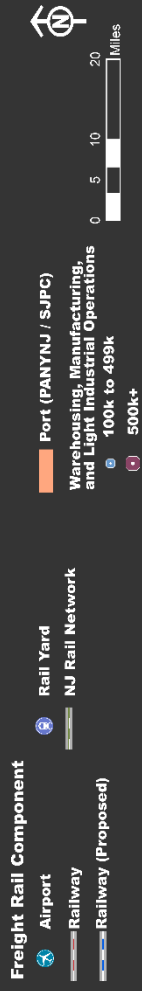
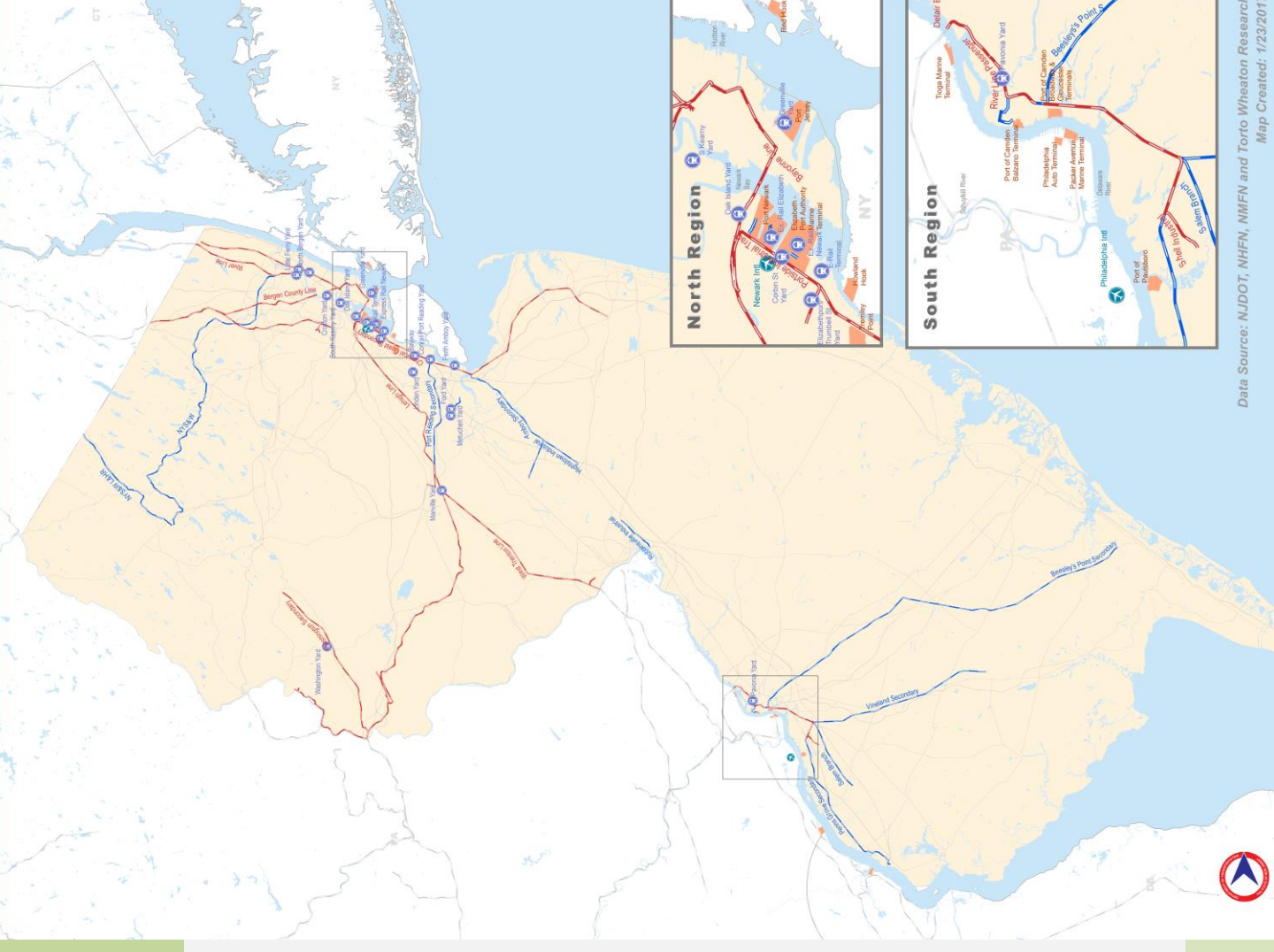


## Freight Marine Component



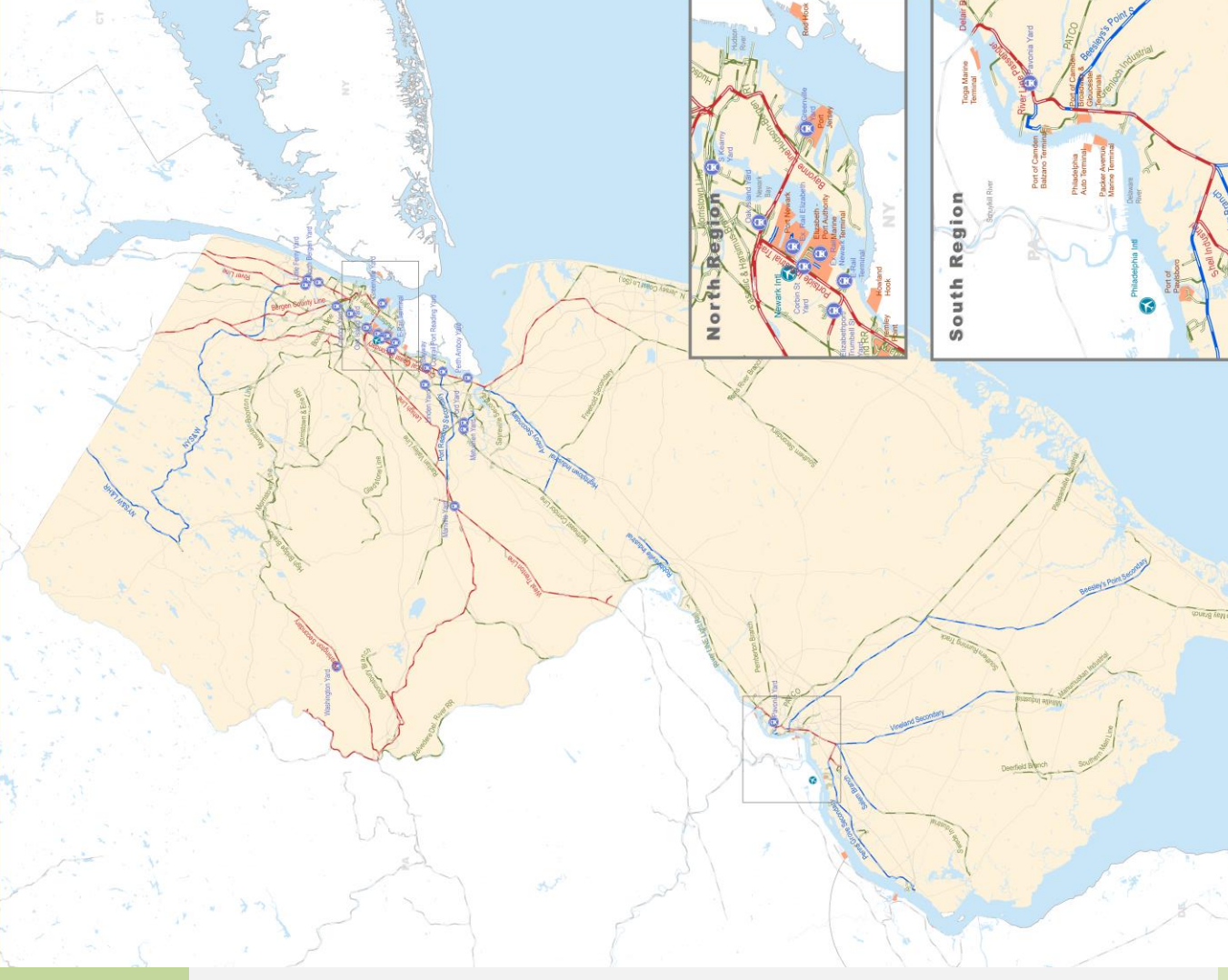
# MODAL NETWORKS - RAIL

- Verify existing infrastructure conditions are accurate to field conditions in 2017
- Review and identify existing freight rail lines, connectors, or sidings we should Add or Remove
- Near-term projects that are funded or under construction count as “existing.” Projects that are not funded do not count as “existing.”



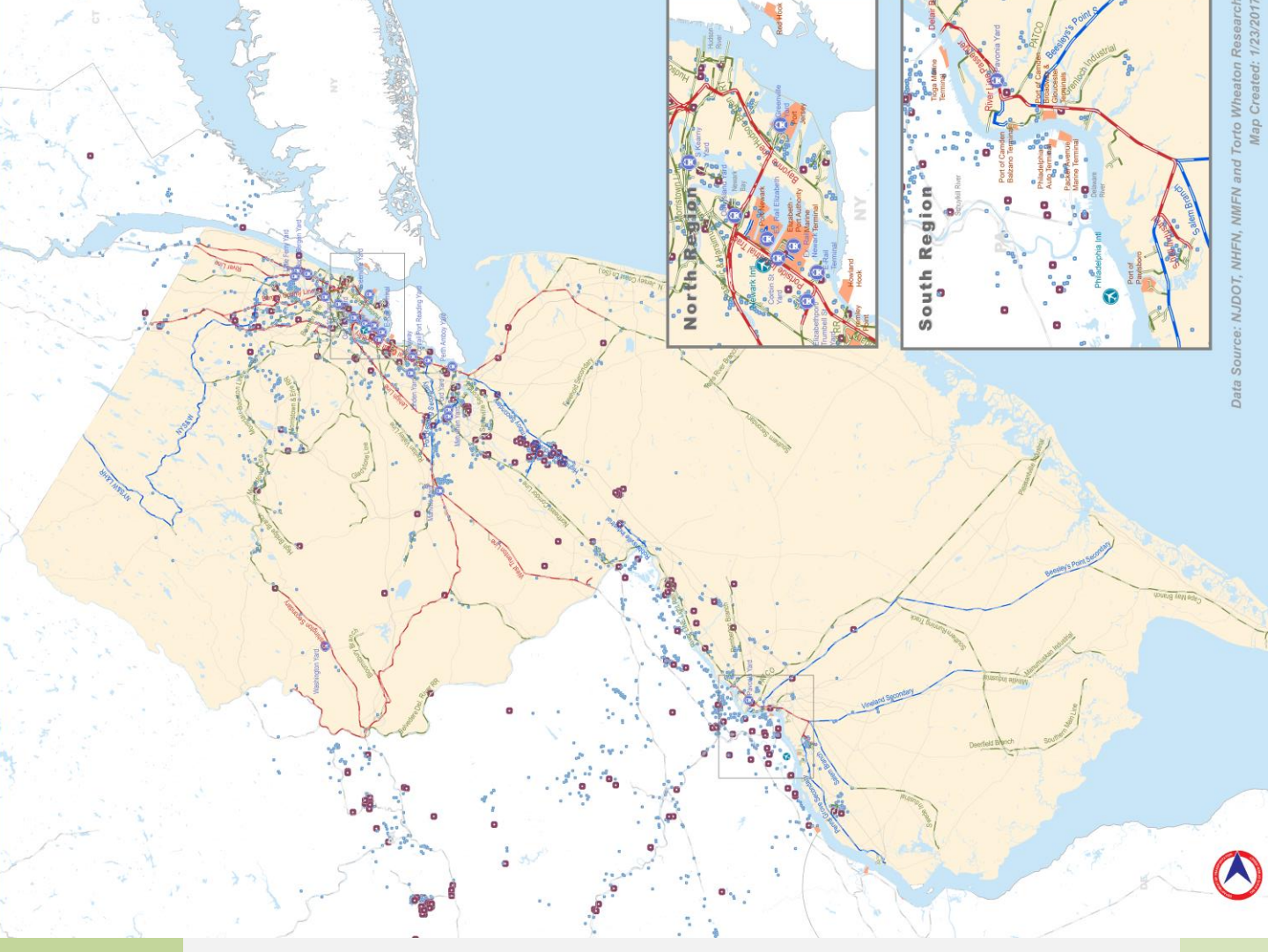
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# MODAL NETWORKS - RAIL

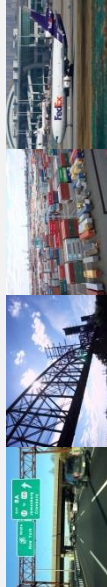
- Torto Wheaton data shows “freight-generating” areas
  - Warehousing facilities,
  - factories,
  - large intermodal facilities, or
  - clusters of freight-rail served businesses
- Discussion of *regions* served by freight rail that are not captured on the map
- Future expansion of service should not be counted unless the expansion project is funded or customers contracted.
- Unfunded future service expansions would be considered future projects.



# MODAL NETWORKS - RAIL

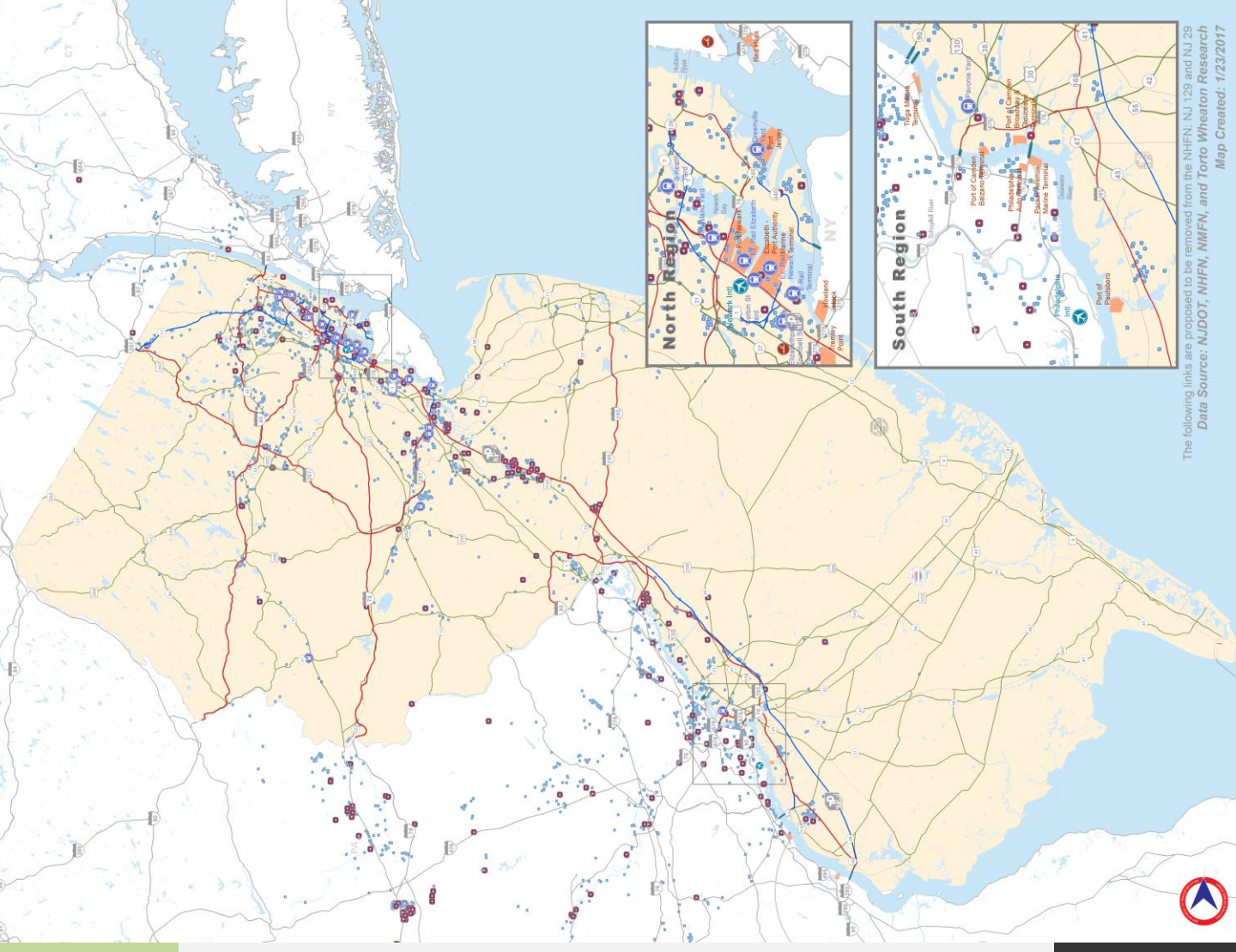
- The project team will conduct one-on-one meetings with freight railroads to discuss specific projects and needs.
- Use the matrix to list the projects and respective counties.
- Project descriptions should be specific enough to meet the eligibility criteria, but detailed engineering and real-estate matters are not needed to define the project in the plan.
- Large scale and complex projects should be included along with smaller projects. Jurisdictional issues, (trackage rights, environmental or right-of-way concerns) should not eliminate a project from inclusion.
- These issues can be resolved as part of a funded project, and inclusion in the plan may bring greater attention and cooperation from stakeholders.

Eligibility Criteria/Eligible Project Type	Project Name/Project Type	County/Countries
A project that facilitates access into or out of a freight rail facility. Feasibility analysis, planning, environmental review, real-estate acquisition, environmental mitigation, and acquisition of equipment are all eligible costs (1105)(1116)	Bergen Arches clearance project	Hudson
A capital project necessary to address congestion challenges affecting rail service (11301)	Delair Bridge approach span replacement.  Port Reading Junction additional track	Camden  Somerset



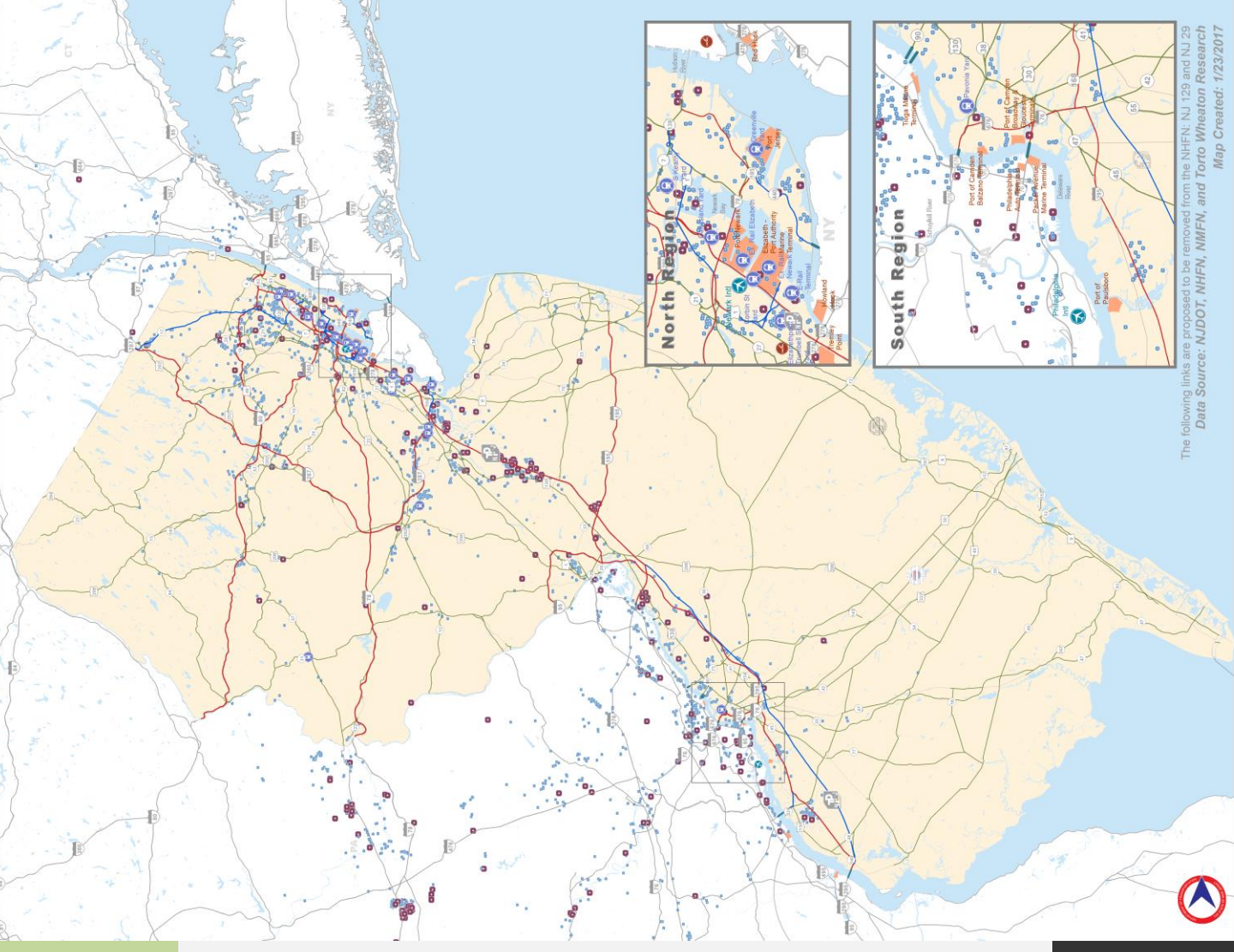
# MODAL NETWORKS - HIGHWAY

- **NHFN:**
  - **Primary Highway Freight System (PHFS)**
  - **Other Interstate portions not on the PHFS**
  - **Critical Rural Freight Corridors (CRFCs)**
  - **Critical Urban Freight Corridors (CUFCs)**
- **Proposed NHFN additions/removals**
- **Other**
- **key NJ Routes**



# MODAL NETWORKS - HIGHWAY

- In addition to the NHFN, what are the key NJ Highways?
- Are there key highways not represented?



## Freight Highway Component



Airport



NHFN Highway



Highway (Proposed Additions)



Bridges



Rail Yard



NJ Access Network  
(as defined under NJ  
AC 16:32)



Ports (PANYNJ / SJPC)



Warehousing, Manufacturing,  
and Light Industrial Operations



100k to 499k



500k+



0 5 10 20  
Miles



North

# MODAL NETWORKS - HIGHWAY

- Critical Rural and Critical Urban Freight Corridors (CRFCs and CUFCs) are important freight corridors that provide linkages between key nodes and the NHFN.
- The designation of CRFCs and CUFCs will increase the State's NHFN, allowing expanded use of NHFP formula funds and FASTLANE Grant Program funds for eligible projects
- New Jersey may designate up to 75 miles of CUFC and up to 150 miles of CRFC

Category		Total Mileage				
<b>(A) is a rural principal arterial roadway and has a minimum of 25 percent of the annual average daily traffic of the road measured in passenger vehicle equivalent units from trucks (Federal Highway Administration vehicle class 8 to 13)</b>		0.00				
<b>(B) provides access to energy exploration, development, installation, or production areas</b>		0.00				
<b>(C) connects the PHFS or the Interstate System to facilities that handle more than:</b>						
1. 50,000 20-foot equivalent units per year or		0.00				
2. 500,000 tons per year of bulk commodities		0.00				
<b>(D) provides access to:</b>						
1. a grain elevator		0.00				
2. an agricultural facility		0.00				
3. a mining facility		0.00				
4. a forestry facility		0.00				
5. an intermodal facility		0.00				
<b>(E) connects to an international port of entry</b>		0.00				
<b>(F) provides access to significant air, rail, water, or other freight facilities in the State</b>		0.00				
Route	MP Begin	Route Begin	MP End	Route End	Length	Facility
NJ 49	5.37	CR 551	8.26	Salem City	2.89	Port of Salem
<b>(G) is determined by the State to be vital to improving the efficient movement of freight of importance to the economy of the State</b>						
Route	MP Begin	Route Begin	MP End	Route End	Length	
US 202	14.73	River Ave	17.11	CR 629	2.38	
US 130	51.62	Mansfield Twp	53.46	Mansfield Twp	1.84	
US 130	66.13	Voebel Road	66.58	Hankins Road	0.45	
US 130	69.79	Old Cranbury Road	70.15	CR 539	0.36	
US 322	2.2	South of US 130	4.8	CR 669	2.6	
NJ 31	6.09	CR 640	16.3	US 202	10.21	
<b>Total CRFC Mileage</b>						<b>20.73</b>
						17.84





# MODAL NETWORKS - HIGHWAY

- Critical Rural and Critical Urban Freight Corridors (CRFCs and CUFCs) are important freight corridors that provide linkages between key nodes and the NHFN.
- The designation of CRFCs and CUFCs will increase the State's NHFN, allowing expanded use of NHFP formula funds and FASTLANE Grant Program funds for eligible projects
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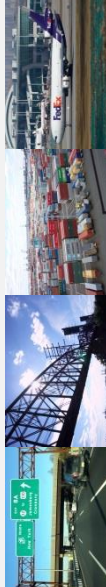
Category		Route						Total Mileage
Route	MP Begin	Route Begin	MP End	Route End	Length	Parallel Route		
<b>(A) connects an intermodal facility to:</b>								
<i>1. the PHFS</i>								
<i>2. the Interstate System</i>								
<i>3. an intermodal freight facility</i>								
McLester Street (Elizabeth)	0	North Avenue	1.47	Bay Avenue	1.47		0	
Corbin Street (Elizabeth)	0	Bay Avenue	0.55	Newark City	0.55		0	
Corbin Street (Newark)/Terminal Street	0	Elizabeth City	1.46	Port Street	1.46		5.38	
Port Street	0	US 1&9	1.9	Craneway Street	1.9			
<b>(B) is located within a corridor of a route on the PHFS and provides an alternative highway option important to goods movement</b>								
Route	MP Begin	Route Begin	MP End	Route End	Length	Parallel Route		
US 130	27.12	I-76	51.62	Mansfield Twp	24.5	295/NJT		
US 130	53.46	Mansfield Twp	66.13	Voeibel Road	12.67	295/NJT		
US 130	66.58	Hankins Road	69.79	Old Cranbury Road	3.21	295/NJT		
US 130	70.15	CR 539	83.46	US 1	13.31	295/NJT		
US 1	0	PA Border	46.73	NJ 81	46.73	NJT		
US 22	36.68	I-287	60.53	US 1&9	23.85	I-78		
US 46	46.47	I-287	72.09	US 1&9	25.62	I-80		
NJ 44	7	CR 656	8.2	Mid Atlantic Pkwy	1.2	295/NJT		
							151.09	



# MODAL NETWORKS - HIGHWAY

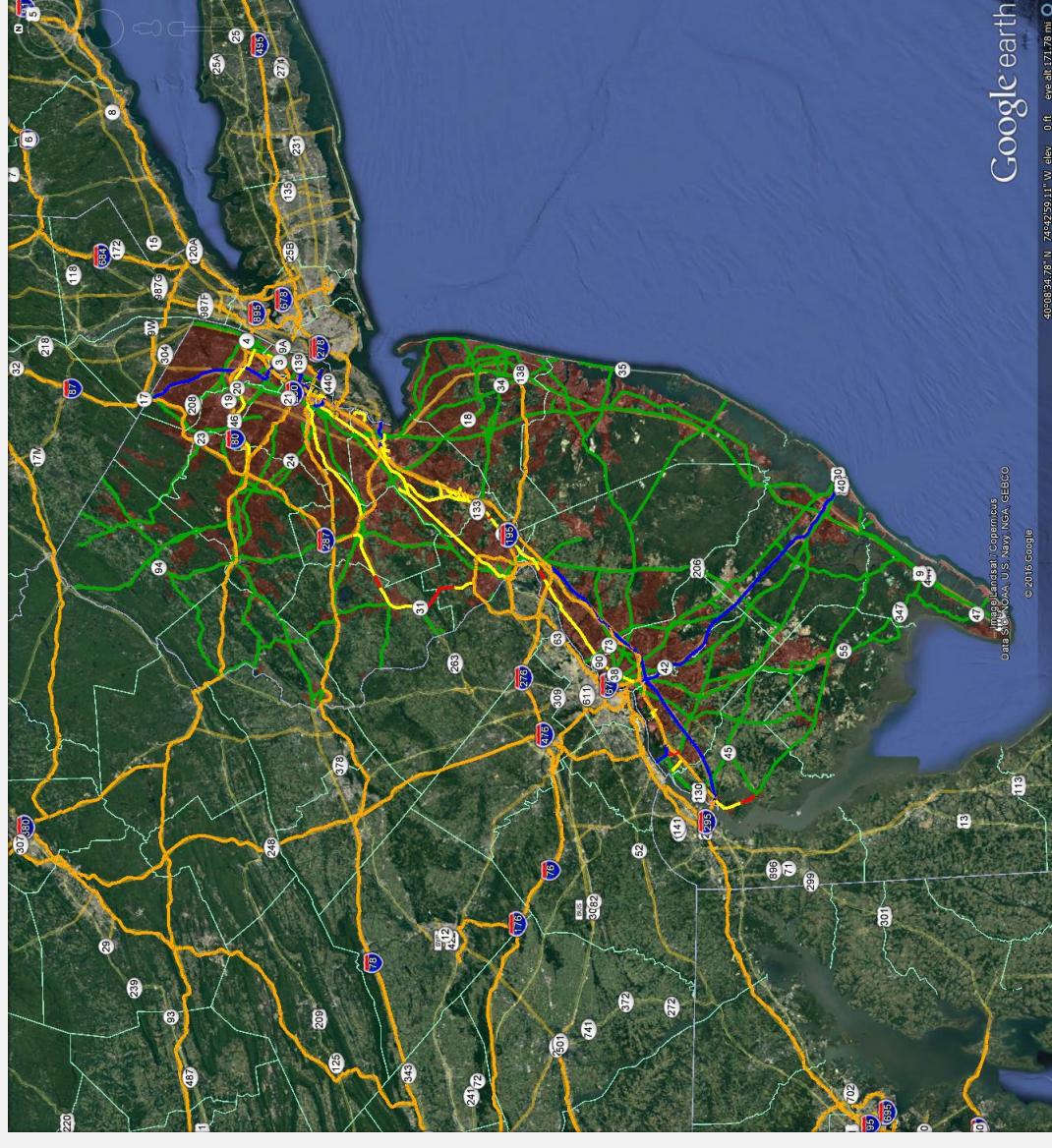
- **Critical Rural and Critical Urban Freight Corridors (CRFCs and CUFCs) are important freight corridors that provide linkages between key nodes and the NHFN.**
- **The designation of CRFCs and CUFCs will increase the State's NHFN, allowing expanded use of NHFP formula funds and FASTLANE Grant Program funds for eligible projects**
- **New Jersey may designate up to 75 miles of CUFC and up to 150 miles of CRFC**

		Category				Total Mileage
<b>(C) serves a major freight generator, logistic center, or manufacturing and warehouse industrial land</b>						
Route	MP Begin	Route Begin	MP End	Route End	Length	Generator
NJ 32	0	US 130	1.18	I-95	1.18	Cranbury/8A
NJ 49	0	NJ Turnpike	5.37	CR 551	5.37	Port of Salem
NJ 49	8.26	Salem City	8.35	Griffith Street (Salem)	0.09	Port of Salem
CR 535	14.96	US 130	20.91	Davidson Mill Road	5.95	Cranbury/8A
CR 522	4.39	US 130	6.71	CR 535	2.32	Cranbury/8A
CR 614	7.13	CR 535	8.78	Englehard Road	1.65	Cranbury/8A
Cranbury-Half Acre Road	0	US 130	1.42	Gavett Drive	1.42	Cranbury/8A
CR 615	4.29	US 130	5.35	HTown-Cran Station Road	1.06	Cranbury/8A
CR 514	28.84	CR 667	31.39	NJ 440	2.55	Raritan Center
CR 667 (Edison - Mill Road)	0	CR 514	0.61	Nixon Lane	0.61	Raritan Center
Raritan Center Pkwy	0	CR 514	1.61	End	1.61	Raritan Center
Riverside Drive/Industrial Highway	0	Entrance	1.54	NJ 440	1.54	Raritan Center
NJ 91	0	US 1	2.26	Van Dyke Ave	2.26	Prologis New Brunswick
Peter J Sica Industrial Blvd	0	Middlesex Ave	2.2	NJTPK Int. 12	2.2	Port Reading
Middlesex Avenue (Carteret)	0	Peter J Sica Ind 0 Blvd	1.95	CR 604	1.95	Port Reading
West Side Avenue (North Bergen)	0.53	83rd Street	1.25	69th Street	0.72	North Bergen
Westside Avenue (North Bergen)	0	CR 681	1.89	69th Street	1.89	North Bergen
CR 640 (Passaic)	1.02	Edison Drive	2.25	US 46	1.23	Totowa (West End Industrial?)
Mid Atlantic Parkway	0	NJ 44	1	CR 643	1	Mid Atlantic Corporate Center
CR 620 (Gloucester)	5.71	I-295	8.38	US 130	2.67	Pureland
<b>(D) is important to the movement of freight within the region, as determined by the MPO or the State.</b>						
Route	MP Begin	Route Begin	MP End	Route End	Length	
NJ 31	4.84	I-95	6.09	CR 640	1.25	
US 202	5.7	NJ 31	14.73	River Ave	9.03	
US 202	17.11	CR 629	25.9	I-287	8.79	
US 322	2.16	US 130	2.2	South of US 130	0.04	
CR 656 (Middlesex)	0.42	NJ 440	2.34	NJ 35	1.92	
CR 681 (Hudson)	3.52	NJ 495	4.59	NJ TPK	1.07	
<b>Total CUFC Mileage</b>						<b>217.84</b>



# MODAL NETWORKS - HIGHWAY

- Urban areas as defined by Census are highlighted in red
- Interactive mapping to review initially identified CUFC/CRFC
- Intent is to include entire potential list now in our planning efforts
- As the system assessment advances project team will finalize CUFC/CRFC to be submitted to FHWA



# UPCOMING TASKS

- **Interviews**
  - **Critical Industries Assessment**
  - **Rail Operators**
- **Truck Parking Subcommittee**
- **Maritime Subcommittee**
- **System Assessment**
  - **Inrix Data**
  - **Commodity Data**
  - **CEDs information**
  - **Other Agency Partner Data**
- **Provide feedback on modal networks**



**THANK YOU**

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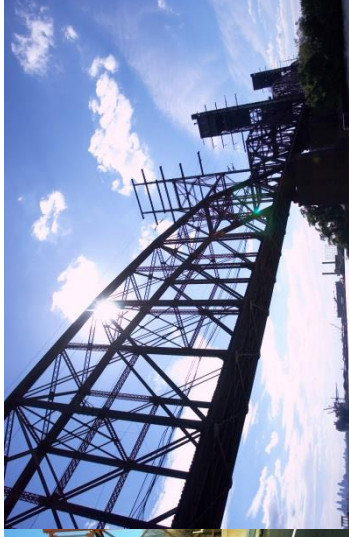
# FAC MEETING #3

11 APRIL 2017





# New Jersey Freight Advisory Committee



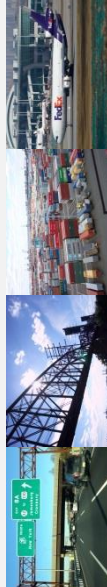
# TODAYS AGENDA

- **Introductions**
- **Review of January FAC Action Items**
- **Update on Rail and Maritime**
- **Truck Parking Best Practices**
- **Freight Network Analyses**
  - **Freight Flows Assessment**
  - **Highway Performance**
- **Upcoming Work Efforts**
  - **Interviews/Outreach**
  - **Innovative Technologies**
  - **Identification of Projects**
- **Next Meeting**



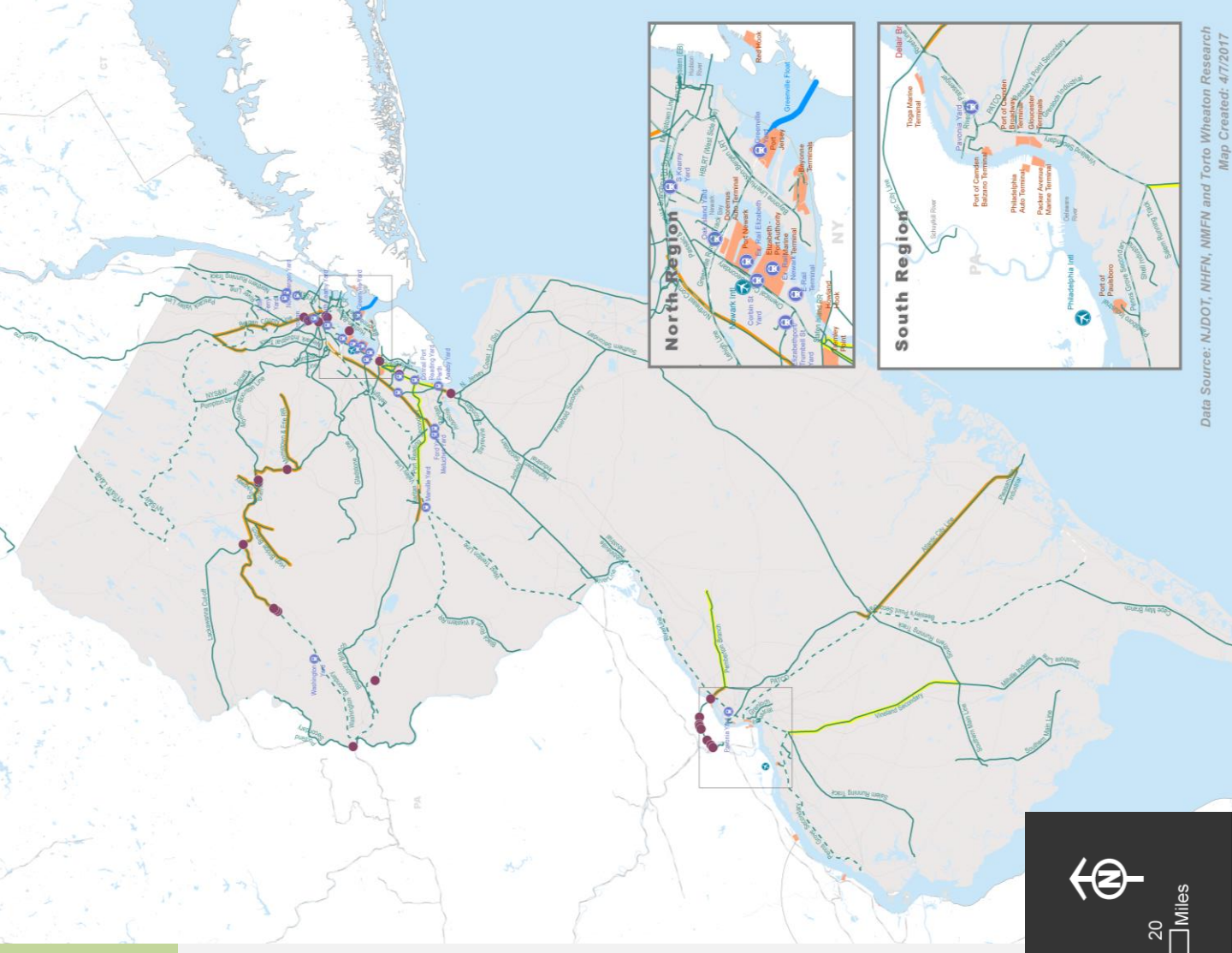
# JANUARY FAC ACTION ITEMS

- WSP|PB addressed map comments
- FAC members provided input on critical rural and critical urban network
- Rail
  - NJTPA provided additional GIS datasets for FRIO network and bulk facilities
  - FAC members to identify important clusters with significant rail usage base on rail map with <100k sf Torto Wheaton data
  - Norfolk Southern to provide input on current weight and dimensional constraints for southern rail lines
  - FAC members to provide input on rail projects by 2/10/17
  - Interviews with railroads ongoing



# UPDATES ON RAIL

- Identified rail constraints (preliminary)
- Need continued collaboration with rail stakeholders to fully identify needs



## Freight Rail Component

- Airport
- HX Bridge
- Bridges with Restrictions
- Rail Yard
- Rail Line Request for Upgrade to 286k
- Rail Line Capable of Handling 286K
- Rail Line Restricted to 263K
- Port (PANYNJ / SJPC)

0 5 10 20 Miles



# UPDATES ON MARITIME

- Submitted draft analysis to NJDOT OMR
  - Global and domestic freight flows
  - Port facilities
  - Port connectivity (rail/highway)
- Addressing comments from NJDOT OMR
- Will share with maritime FAC members before next FAC Meeting



## **TRUCK PARKING FACILITIES PILOT PROGRAM (SAFETEA-LU SECTION 1305)**

- **Addressed the shortage of long-term parking for commercial motor vehicles on the NHS (until Year 2011)**
- **SAFETEA-LU authorized \$25M for this new pilot program and awards were made to 15 projects across the country.**
- **In 2011, FHWA solicited and received applications for 12 Discretionary Programs including the Truck Parking Facilities Program.**



# ELIGIBILITY OF TITLE 23 FUNDS FOR TRUCK PARKING

- **Truck parking projects as described under Section 1401 of Public Law 112-141 (MAP-21) may be an eligible activity under the following formula programs:**
  - **Surface Transportation Block Grant Program (STBG)**
  - **The National Highway Performance Program (NHPP)**
  - **The Highway Safety Improvement Program (HSIP)**
  - **Congestion Mitigation and Air Quality Improvement Program (CMAQ)**
  - **National Highway Freight Program (NHFP)**
- **Grant Opportunities:**
  - **Fostering Advancements in Shipping and Transportation for the Long-term Achievement of National Efficiencies (FASTLANE) Grants**
  - **Transportation Investment Generating Economic Recovery (TIGER) Grants**



# FHWA

- FHWA encourages the consideration of public-private partnerships (P3s) in the development of transportation improvements.
- The Center for Innovative Finance Support provides information and expertise in:
  - The use of different P3 approaches
  - Assistance in using tools including:
    - the SEP-15 program,
    - private activity bonds (PABs), and
    - the TIFIA Federal credit program to facilitate P3 projects.
- <https://www.fhwa.dot.gov/ipd/p3/default.aspx>





# PUBLIC-PRIVATE PARTNERSHIPS (P3s)

- **How Does It Work?**
  - Under P3 models, the private sector may also participate in design, finance, operations, and maintenance.
- **What Are the Benefits?**
  - Can provide access to private capital, reduce costs borne by transportation agencies, accelerate project delivery, shift project risk, spur innovation, and provide for more efficient management.
- **Potential Limitations**
  - Requires considerable administrative cost and time to develop, analyze, procure, and monitor.
  - They do not provide States with new revenue; in fact, P3s need a revenue stream to work.



# PUBLIC PRIVATE PARTNERSHIP EXAMPLES

- **Utah I-15 Truck Parking Project**
  - 2011: \$1.1 million grant was awarded to build 24 additional truck parking spaces for the Lunt Park Rest Area in southern Utah including parking for longer combination vehicles.
  - P3 for five service stations
  - The partnership saved UDOT over \$80 k per rest area per year in cleaning services and saved taxpayer from funding additional new buildings



# **PUBLIC PRIVATE PARTNERSHIP EXAMPLES (CONT'D)**

- **Maryland Transportation Authority (MDTA)**
  - The partnership accounted for \$56 million investment from private sector partners: Areas USA and their partner SUNOCO.
  - The lease was signed for 35 years to Travel Plaza during which the partner would be responsible for maintaining and operating the facility.
- **Arizona DOT**
  - 14 rest areas managed under one contract under the agency's first active public-private partnership.
    - Private company is charged with maintenance and operations



# PUBLIC PRIVATE PARTNERSHIPS EXAMPLES (CONT'D)

- **New York Thruway Authority**
  - Contracts with Marriott Corporation (HMS Host) and McDonald's to operate 16 and 11 plazas, respectively.
- **Vermont Agency of Transportation**
  - Public investment for a 24-hour rest area and services center along Interstate 89
  - Vermont Agency of Transportation only installed and maintain signs for the facility on I-89 and Route 62
  - Maintenance and construction provided by a private party
- **Iowa DOT**
  - I-35: A private developer is responsible for operations and maintenance of the center, with Iowa Department of Transportation sharing the cost.



# PENNDOT PUBLIC-PRIVATE TRANSPORTATION PARTNERSHIPS OFFICE

- **The Public and Private Partnerships for Transportation Act:**
  - Signed into law by the Governor in 2012,
  - Allows PennDOT and other transportation authorities and commissions to partner with private companies to deliver, maintain and finance transportation-related projects.
- **October 2013: P3 Office begins to accept unsolicited proposals for transportation projects from the private sector.**
- **Freight Related P3 Approved Projects:**
  - Truck Permitting and Routing System (Completed)
  - Smart Truck Parking (Under Evaluation)
    - Goal is to provide truck drivers with parking availability in advance of rest areas, welcome centers, and truck stops.



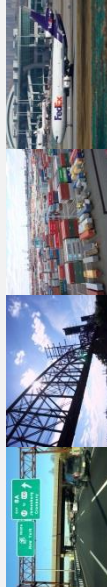
## **MASSACHUSETTS DOT SERVICE PLAZA/REST AREA P3 SUITABILITY STUDY**

- **Purpose: Evaluate and classify potential P3 concepts for improving service and utilization of Rest Areas, Service Plazas, Park-and-Ride, and Weigh Station facilities**
- **Out of 170 potential sites, 16 were selected as potential locations for P3**
- **Study was completed in 2014**
- **No progress since then**



# OTHER INITIATIVES

- **Regional Truck Parking Information and Management System (TPIMS)**
  - the State of Kansas in partnership with Indiana, Iowa, Kentucky, Michigan, Minnesota, Ohio, Wisconsin and the Mid America Association of State Transportation Officials (MAASTO)
  - Objectives:
    - Intended to reduce time searching for parking and to provide safe truck parking alternatives.
  - TIGER Grant Funded
  - Phase 1: 30 percent done by October 2016
  - Launch TPIMS operationally by Sept. 30, 2018.



# OTHER INITIATIVES (CONT'D)

- **Virginia DOT - has plans to open a truck driver rest area along I-66**
- **Caltrans:**
  - **I-5 Smart Truck Parking in California**
    - Public-Private-Academic Collaboration to Aid Truckers in Finding Safe, Legal, and Available Parking Through ITS Technology
  - **Los Angeles and CA SMART Truck Parking**
    - SMART Truck Parking
    - Advanced Parking Information and Reservation System
    - Project Status:
      - Dynamic Truck Parking Information operational at two facilities
      - Truck parking locations database in development
  - **I-710 Freight Corridor Solicitation**
    - Improve corridor between port of LA and Long Beach by adding two truck dedicated lanes, improve interchanges.





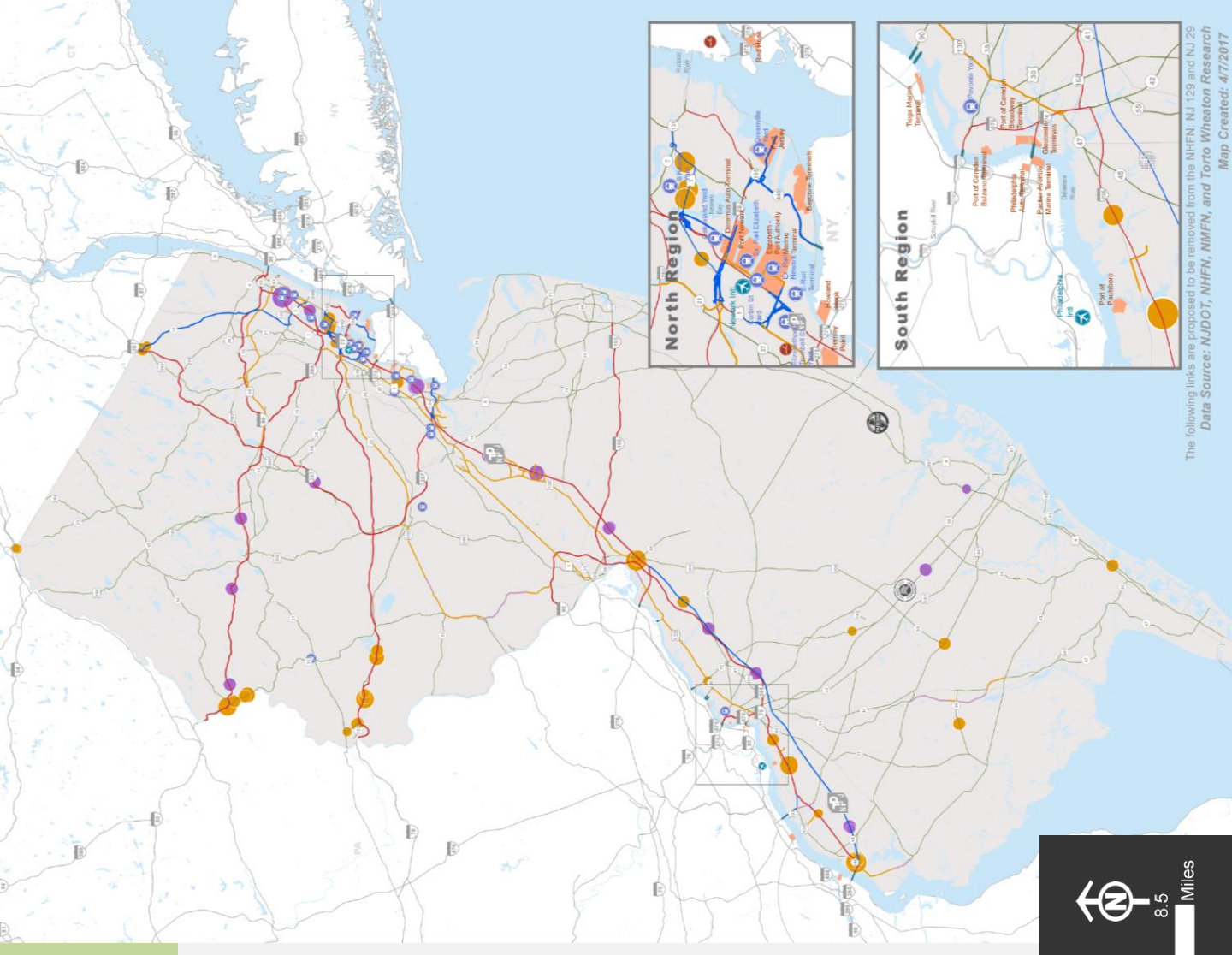
# OTHER INITIATIVES (CONT'D)

- **Indiana DOT (Illiana Corridor) - It will serve as a major trucking corridor**
- **The Michigan Department of Transportation (MDOT)**
  - **I-94 Truck Parking Information and Management System:**
    - Evaluates truck parking availability
    - Delivers real-time parking availability information to truck drivers.
  - **The project is federally funded under the Federal Highway Administration (FHWA) Truck Parking Facilities Discretionary Grants Program.**



# TRUCK PARKING INITIATIVES IN NEW JERSEY

- **North New Jersey Truck Stop Study (2008)**
  - Several recommendations made including policy and institutional, planning and finance, partnering, and recommended new or expanded sites.
  - The study identified four areas that had the biggest need for parking – the interchange of I-78 with the NJ Turnpike, I-287 corridor, the area around the Vince Lombardi rest area and in Newark.
- **NJ - A3918 "Commercial Motor Vehicle State Highway Parking Act." Bill**
  - Introduced in December of 2014 and Referred to Assembly Transportation and Independent Authorities Committee.



**Freight Highway Component**

- Airport
- NHFN Highway
- Highway (Proposed Additions)
- Bridges
- Ports (PANYNJ / SJPC)

**Private/ Public Truck Parking Spaces**

- <10
- 10 - 50
- 51 - 100
- 101 - 200
- 201 - 245

**Rail Yard**

**NJ Access Network (as defined under NJ AC 16:32)**

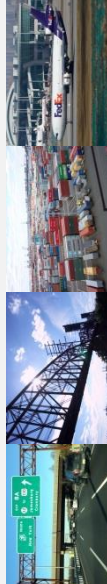
North Arrow

Scale: 0, 4.25, 8.5 Miles

The following links are proposed to be removed from the NHFN, NJ 129 and NJ 29 Data Source: NJDOT, NHFN, MIFN, and Torto Wheaton Research Map Created: 4/7/2017

# CONCLUSION

- **Information about parking is available:**
  - **Websites**
  - **Mobile Applications**
- **What should State Do**
  - **Government has a role for promotion and regulation.**
  - **NJDOT can lead charge in assembling a team to respond to the FHWA RFP**
  - **Champion the Truck Parking through the Economic Development Program**



# SUGGESTIONS

- **Partnerships**
  - Establishing Advisory Committee – Build an advocacy group for freight planning activities among key regional decision makers, including NJDOT/MPO management, freight transportation stakeholders, industry and business leaders (at large), and statewide or local elected officials.
  - Establish the Freight Resource Program (FRP): It will serve as a forum and place for raising the issues and concerns, identifying problems and needs, and proposing and discussing solutions.
  - Explore opportunities for expanding truck parking capacity and local economic development through dual-use facilities, brownfield reuse, and provision of parking at truck-oriented developments.
- **Planning and Finance**
  - Explore all funding opportunities, particularly for innovative pilot projects
- **Technology and Design**
  - Develop and implement ITS applications that support more efficient operations and truck parking.



# GOALS OF COMMODITY FLOW ANALYSIS

- **Provide a baseline assessment of current conditions**
  - Volume (tons and value) estimates for year 2015
  - Direction, trade type, commodity class, mode
  - State-level
- **Develop future forecasts to 2045**



# DATA SOURCES

- **Primary source**
  - USDOT Freight Analysis Framework 4.3
  - 2012 base year data, projected to 2015 and 2045
- **Supplemental sources for enhancement/validation**
  - STB Public Rail Waybill (for rail)
  - USACE Waterborne Commerce of the US (for ports)
  - BTS T-100 data (for air)
  - US Census Trade Data (for international flows)
  - NJDOT 2007 Transearch (for through traffic and county shares)



# FREIGHT ANALYSIS FRAMEWORK 4.3 (FAF) ANALYSIS

- **High-level summary**
  - **State-to-state (domestic trade plus “domestic leg” of int’l trade)**
    - By direction (inbound, outbound, internal)
    - By mode (truck, rail, water, air, pipeline, multiple, other, none)
    - By origin and destination
    - By commodity class (2-digit SCTG)
  - **International trade**
  - **2015 base year and 2045 forecasts**
- **Detailed analyses (appendices to final plan document)**
  - **Commodities, modes, forecasts**



# TONS AND VALUE BY STATE-TO-STATE DIRECTION

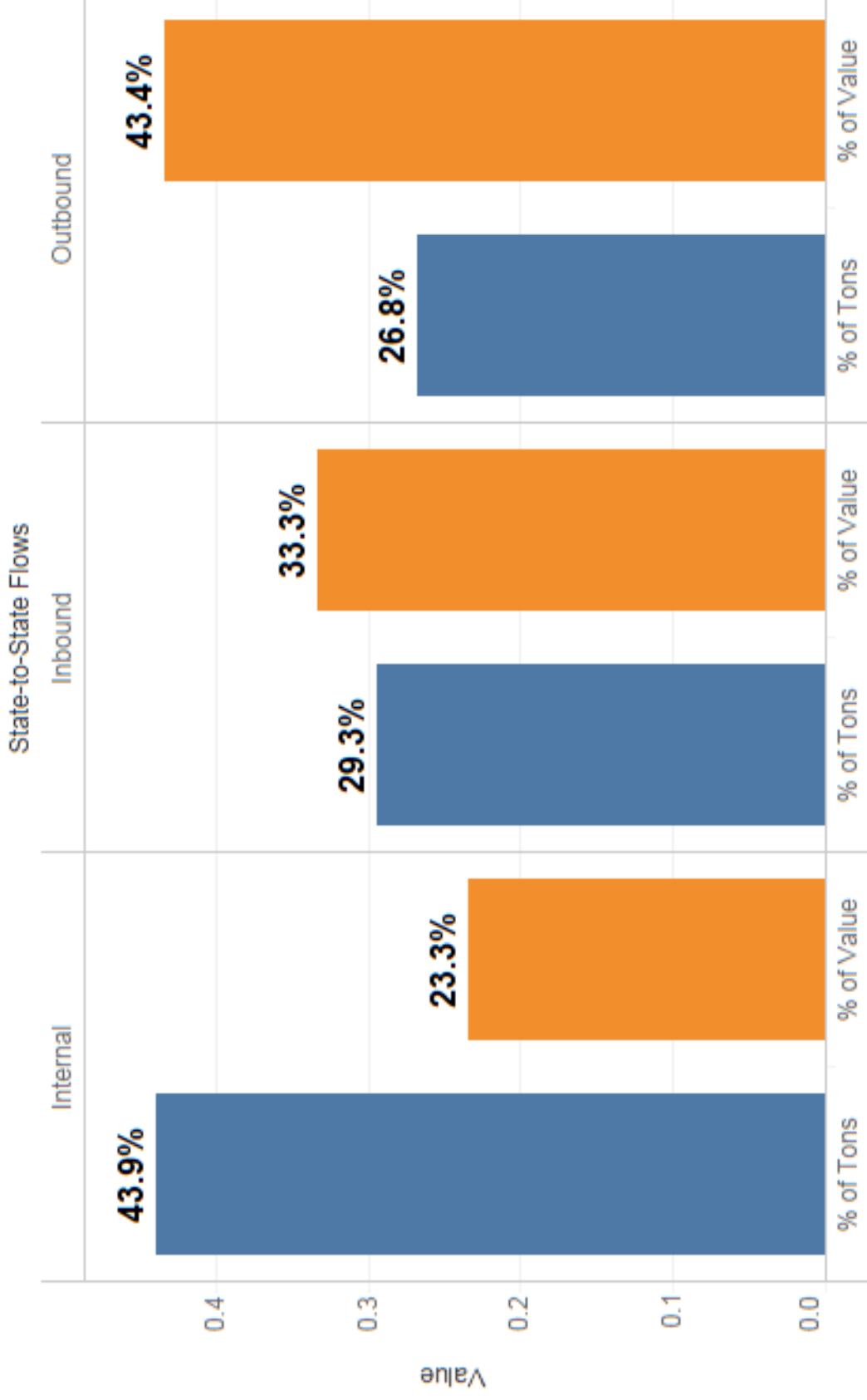
Tons and Value by State-to-State Direction		
State-to-State Flows	Tons 2015 (M)	Value 2015 (\$M)
Internal	224.71	228,597
Outbound	136.98	424,756
Inbound	150.07	326,019
<b>Grand Total</b>	<b>511.77</b>	<b>979,371</b>





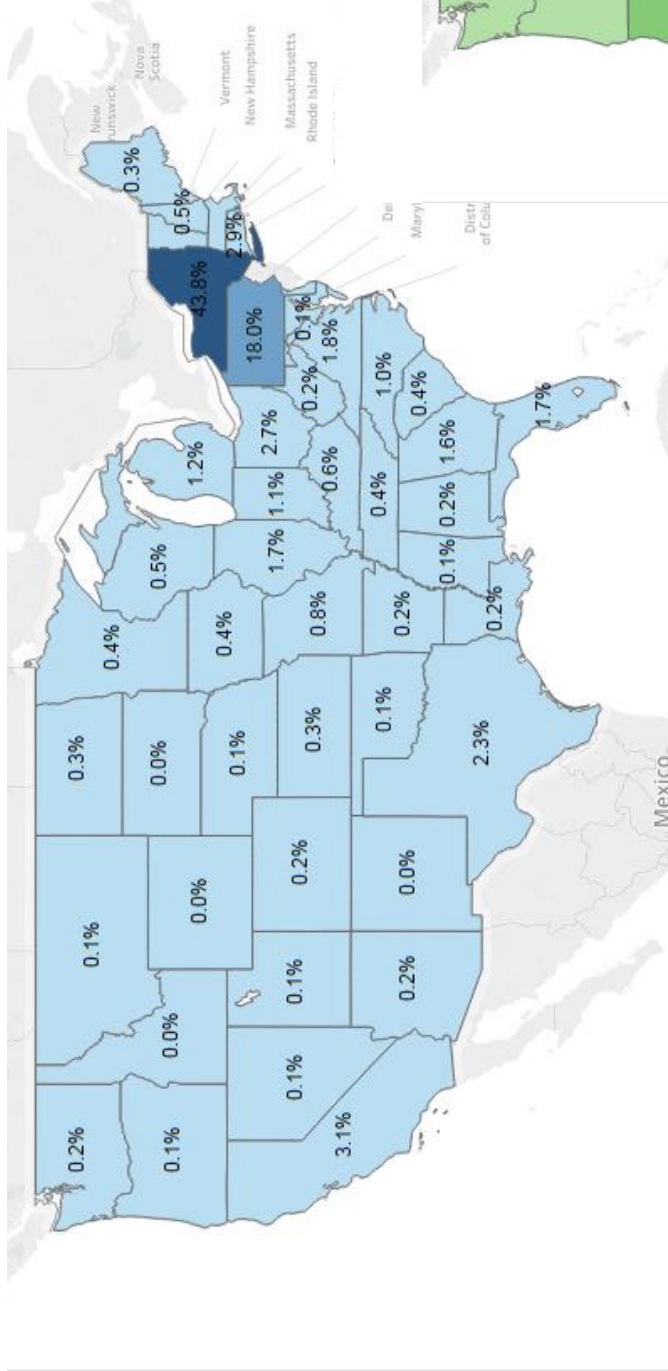
# TONS AND VALUE BY STATE-TO-STATE DIRECTION (CONT.)

Share of Tons and Value by State-to-State Direction

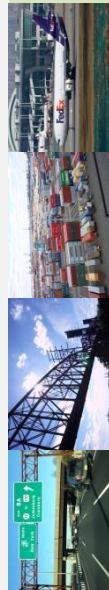
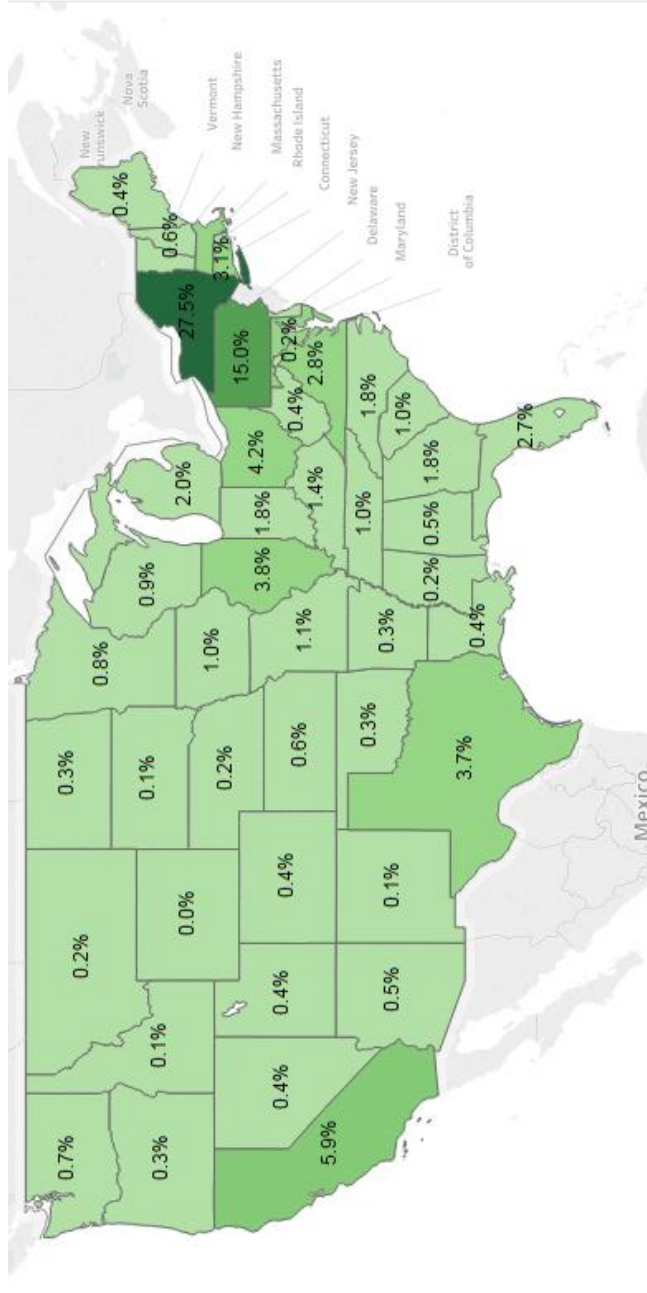


# DESTINATION STATES FOR OUTBOUND TONS AND VALUE

Destination States – Outbound Tons

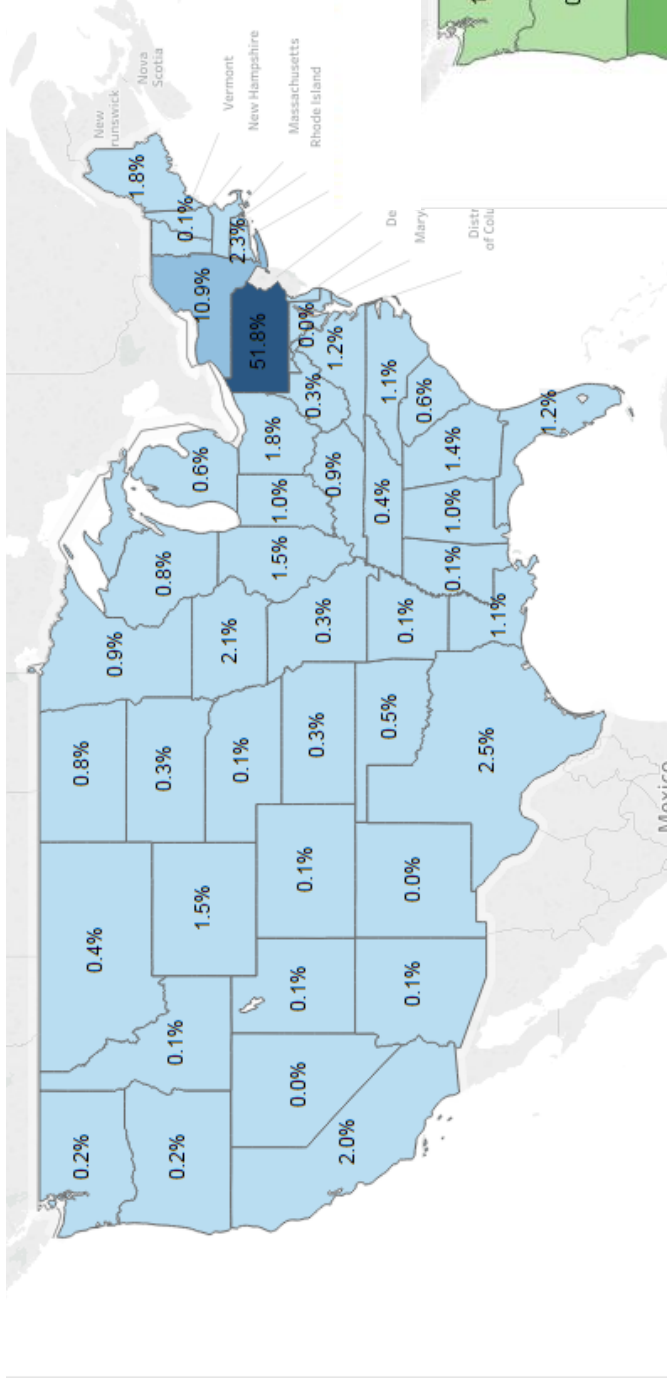


Destination States – Outbound Value

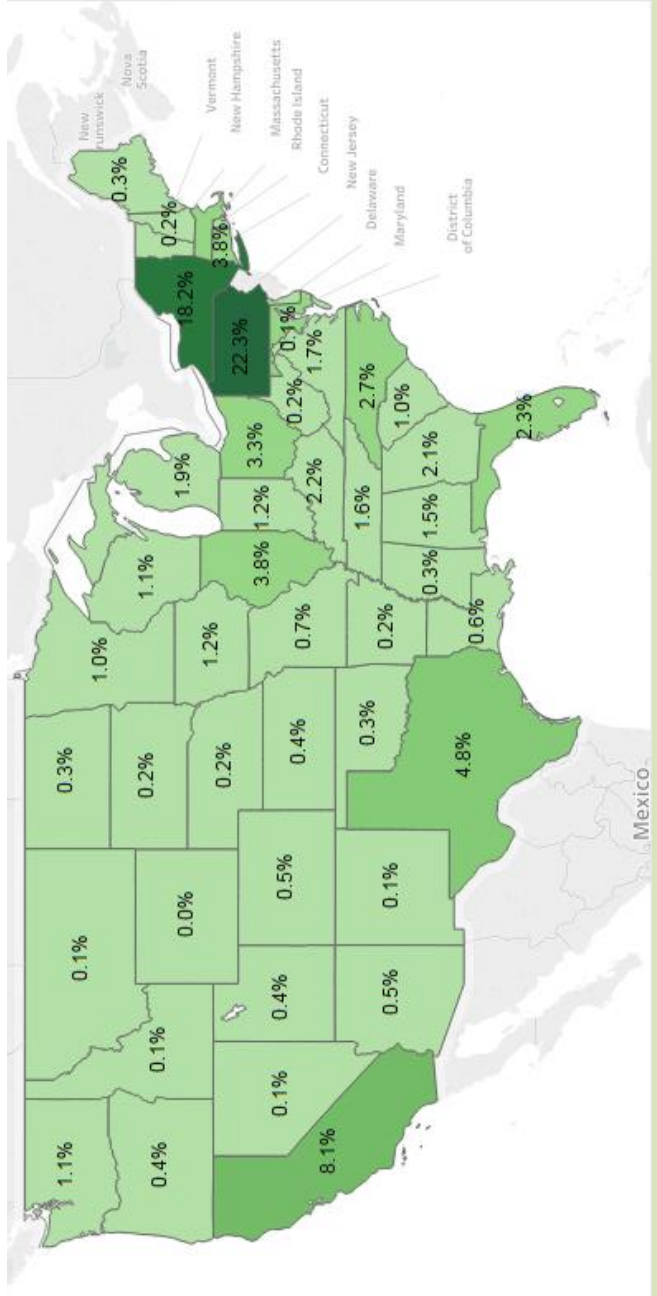


# ORIGIN STATES FOR INBOUND TONS AND VALUE

Origin States – Inbound Tons



Origin States – Inbound Value



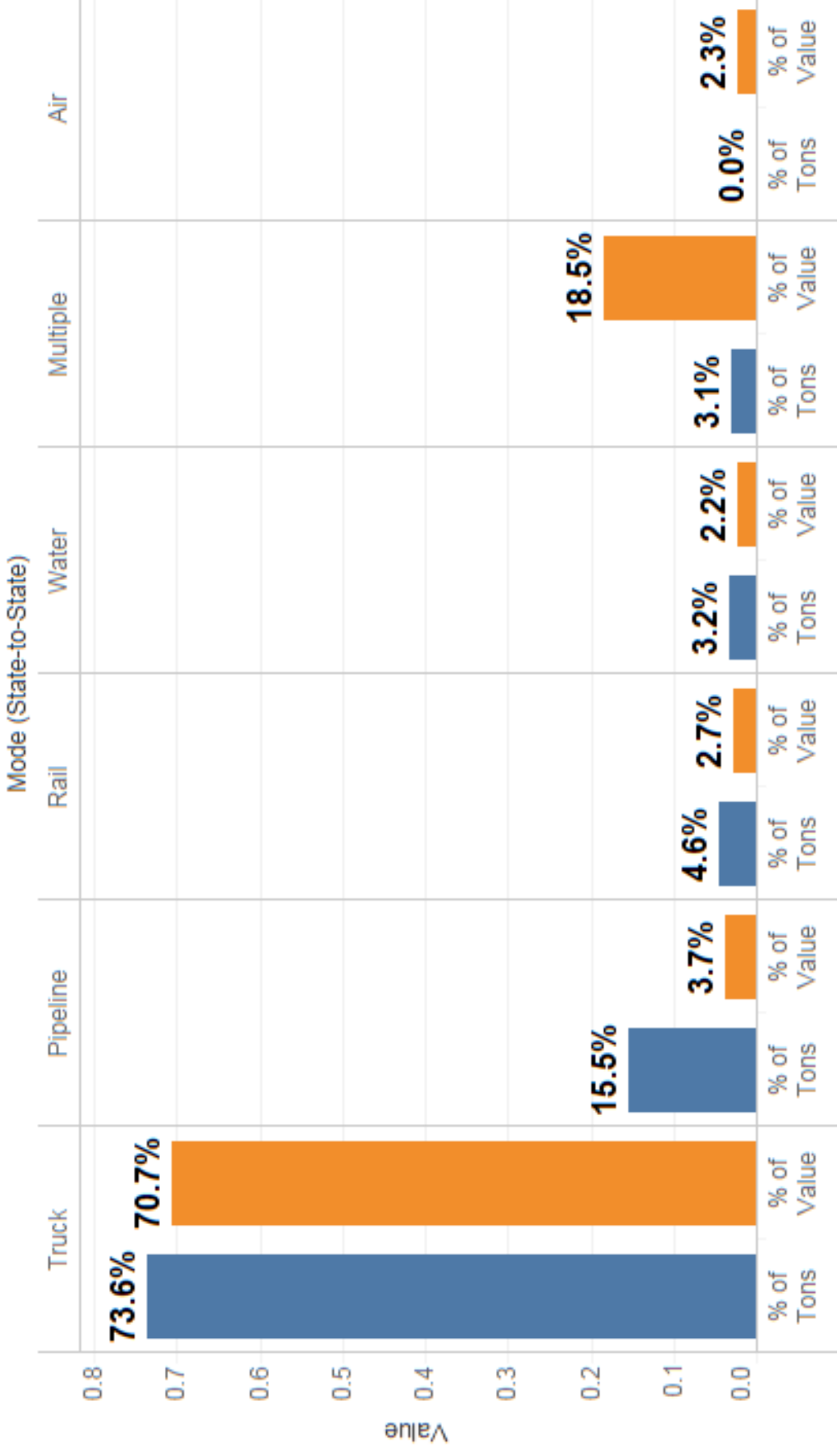
# TONS AND VALUE BY STATE-TO-STATE MODE

Tons and Value by State-to-State Modes		
Mode (State-to-State)	Tons 2015 (M)	Value 2015 (\$M)
Truck	364.59	683,593
Pipeline	76.66	35,424
Rail	22.53	26,523
None	16.57	11,255
Water	15.95	21,018
Multiple	15.16	178,419
Air	0.22	21,883
Unknown	0.09	1,257
<b>Grand Total</b>	<b>511.77</b>	<b>979,371</b>



# TONS AND VALUE BY STATE-TO-STATE MODE (CONT.)

Share of Tons and Value by State-to-State Modes



# TONS AND VALUE BY TRADE TYPE

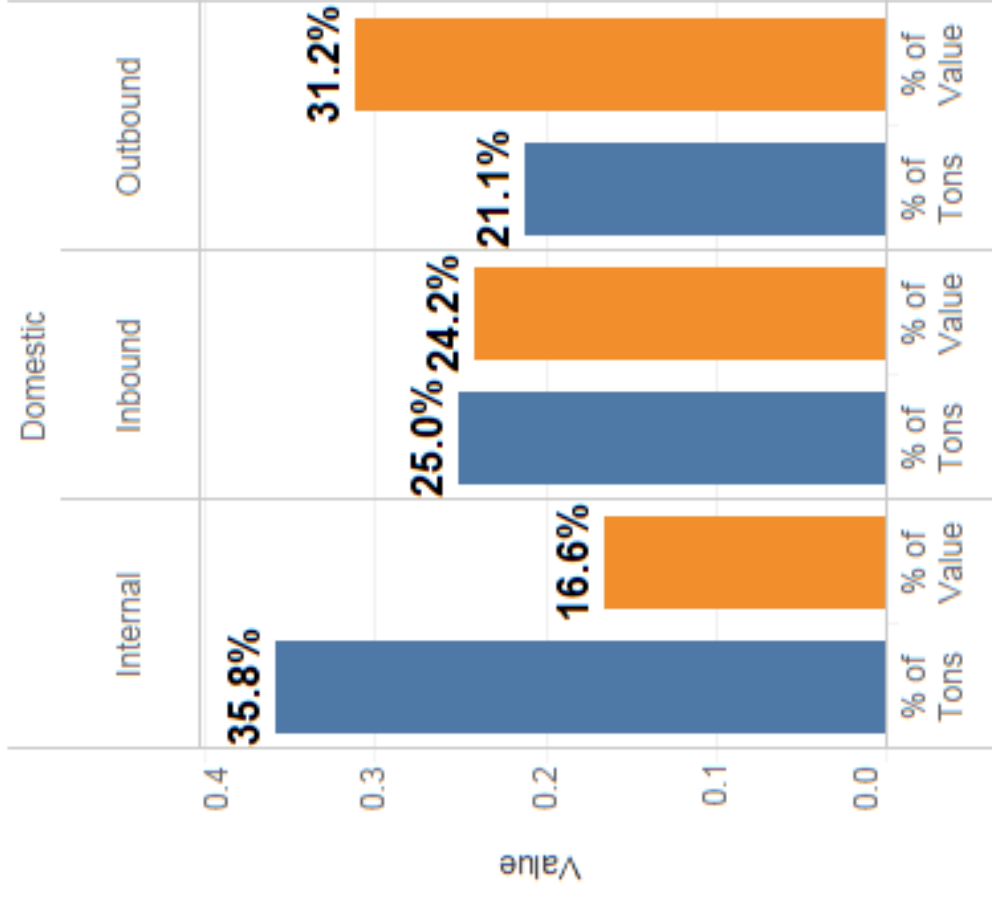
## Tons and Value by Trade Type

State-to-State Flows	Tons 2015 (M)		Trade Type		Value 2015 (\$M)	
	Domestic	Import	Export	Domestic	Import	Export
	Inbound	128.10	19.22	2.76	236,603	72,897
Internal	183.02	34.73	6.96	162,112	59,872	6,613
Outbound	108.19	21.63	7.16	305,131	90,802	28,823
<b>Grand Total</b>	<b>419.31</b>	<b>75.57</b>	<b>16.88</b>	<b>703,847</b>	<b>223,570</b>	<b>51,954</b>

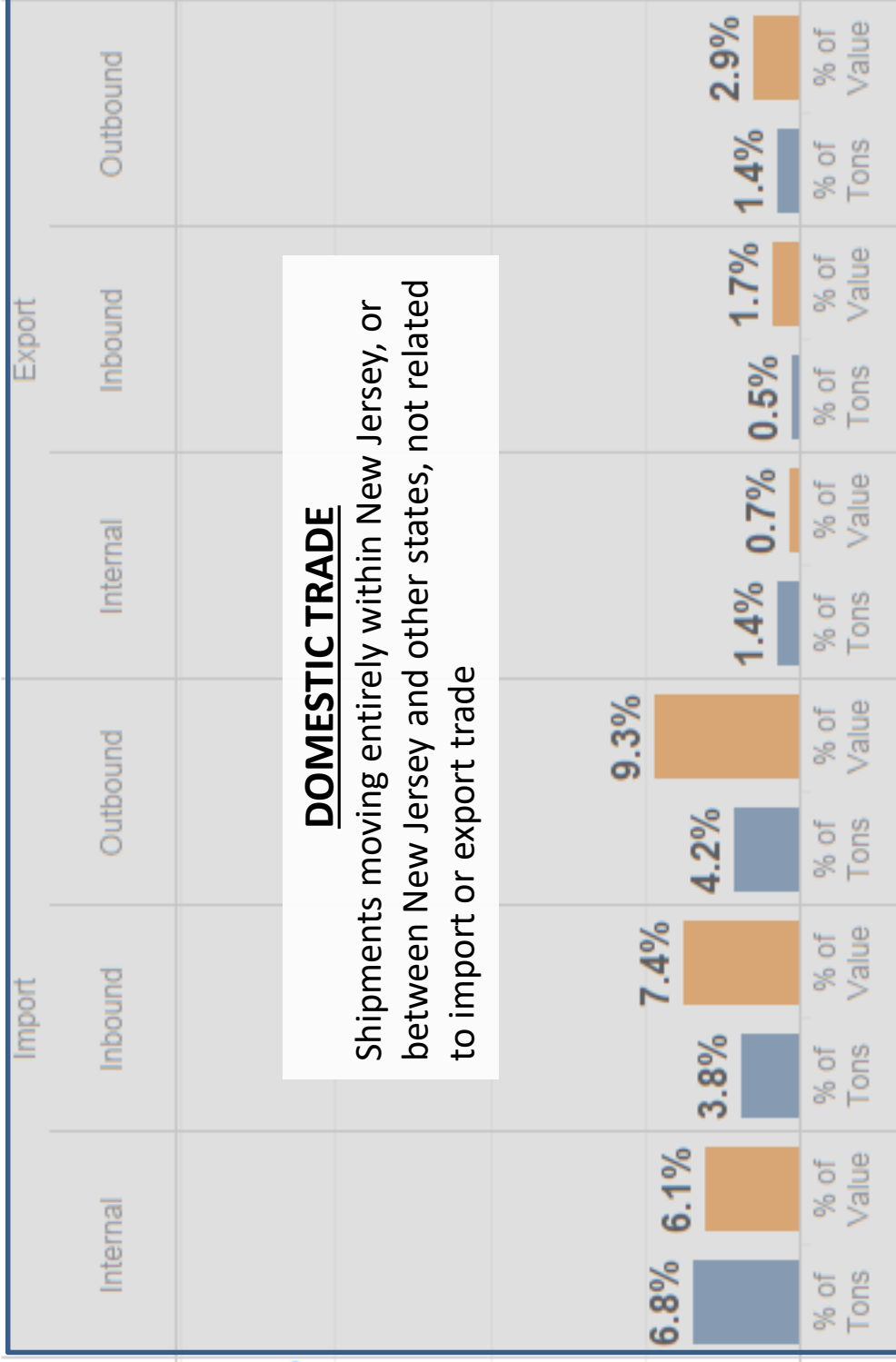


# TONS AND VALUE BY TRADE TYPE -- DOMESTIC

Shares of Tons and Value by Trade Type



Trade Type / State-to-State Flows

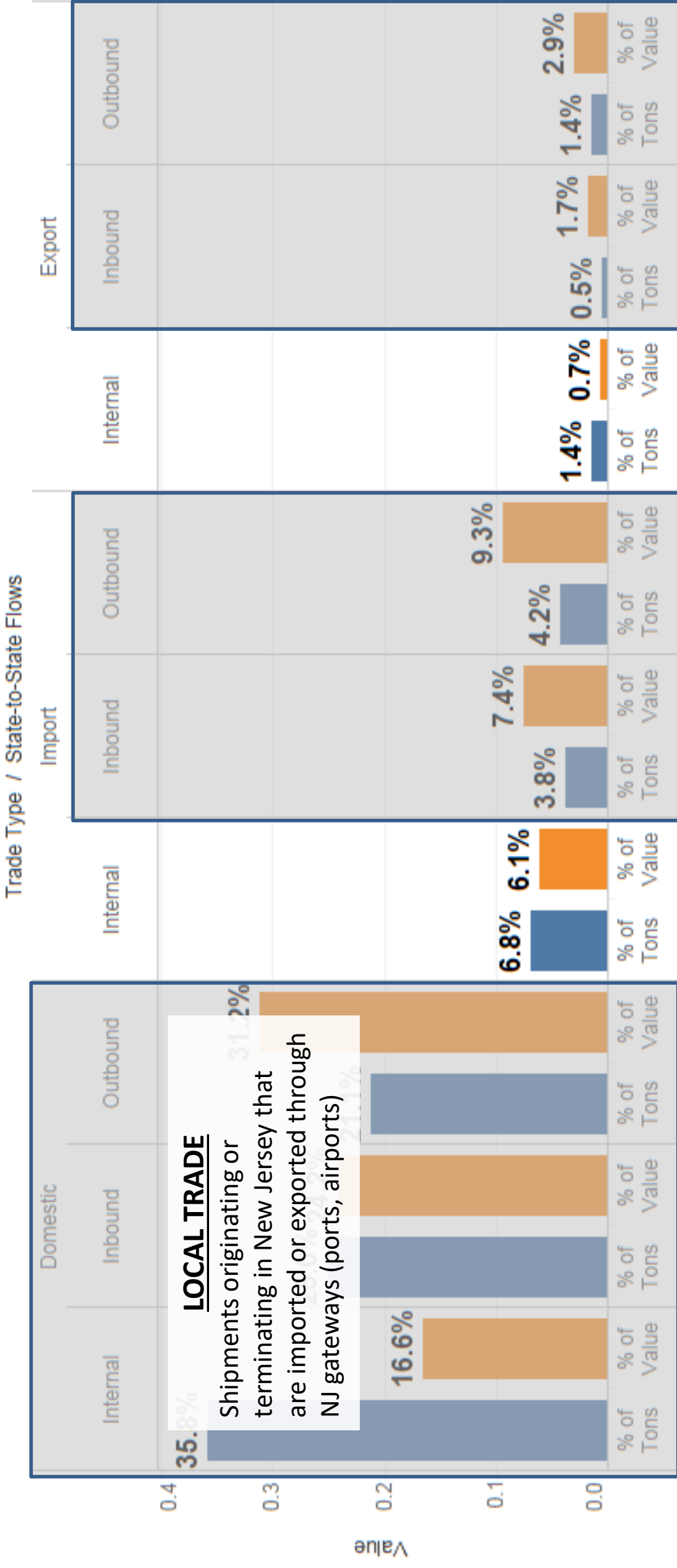


**DOMESTIC TRADE**  
 Shipments moving entirely within New Jersey, or between New Jersey and other states, not related to import or export trade



# TONS AND VALUE BY TRADE TYPE -- LOCAL

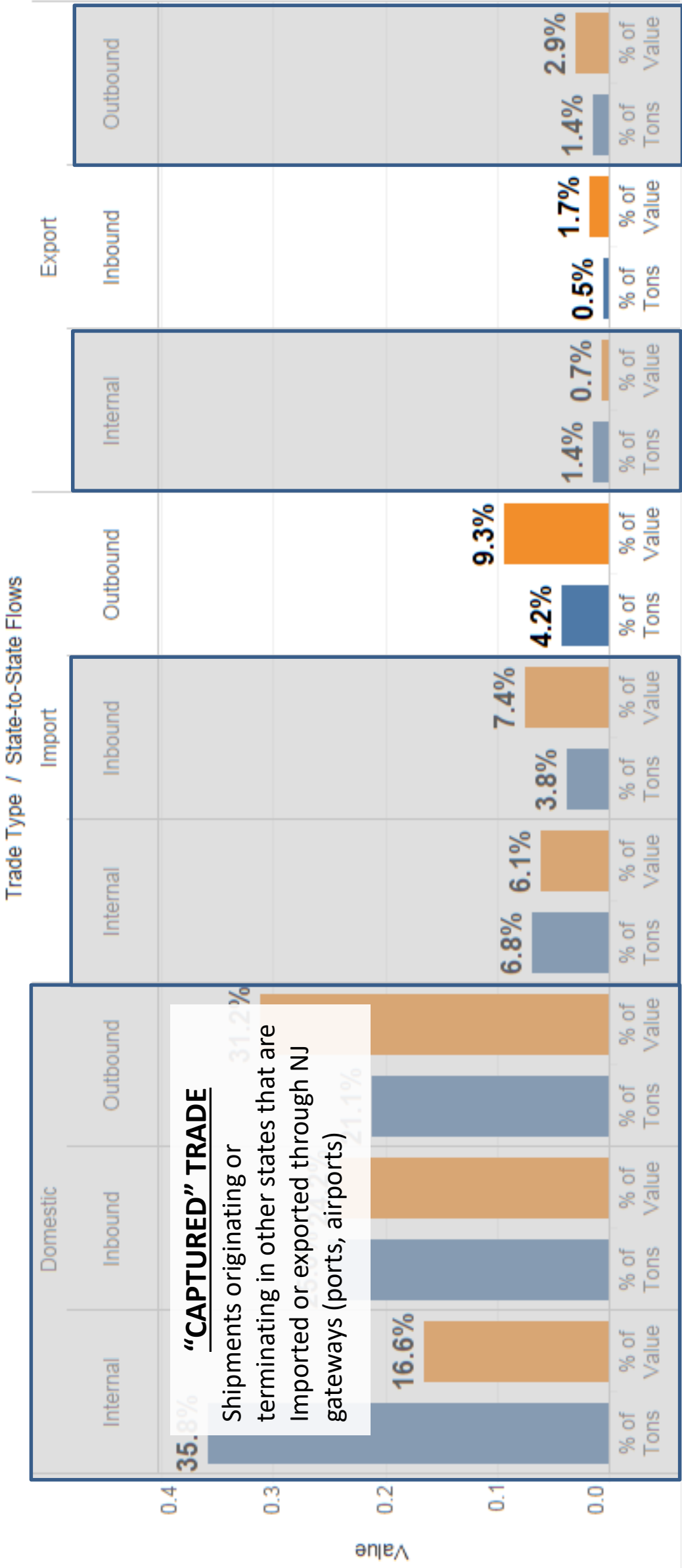
Shares of Tons and Value by Trade Type





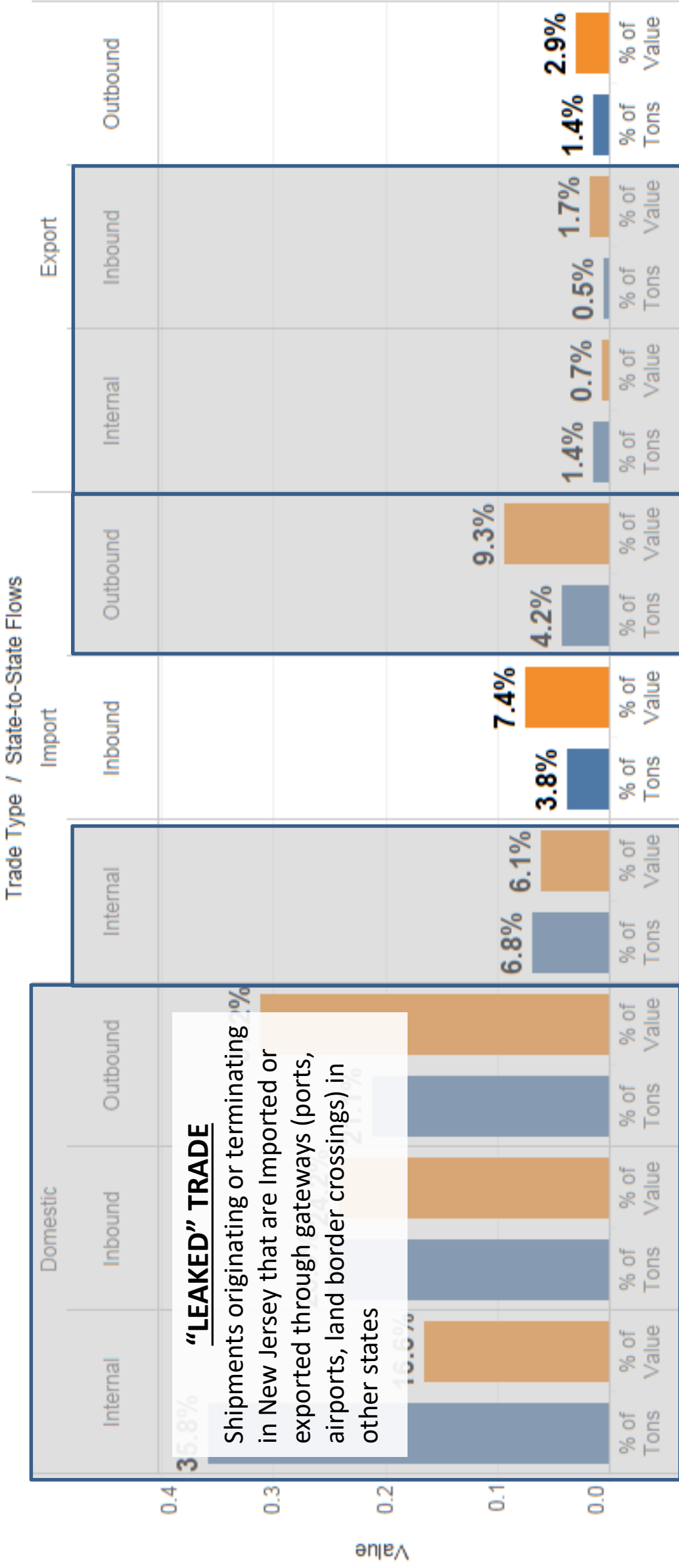
# TONS AND VALUE BY TRADE TYPE -- "CAPTURED"

Shares of Tons and Value by Trade Type



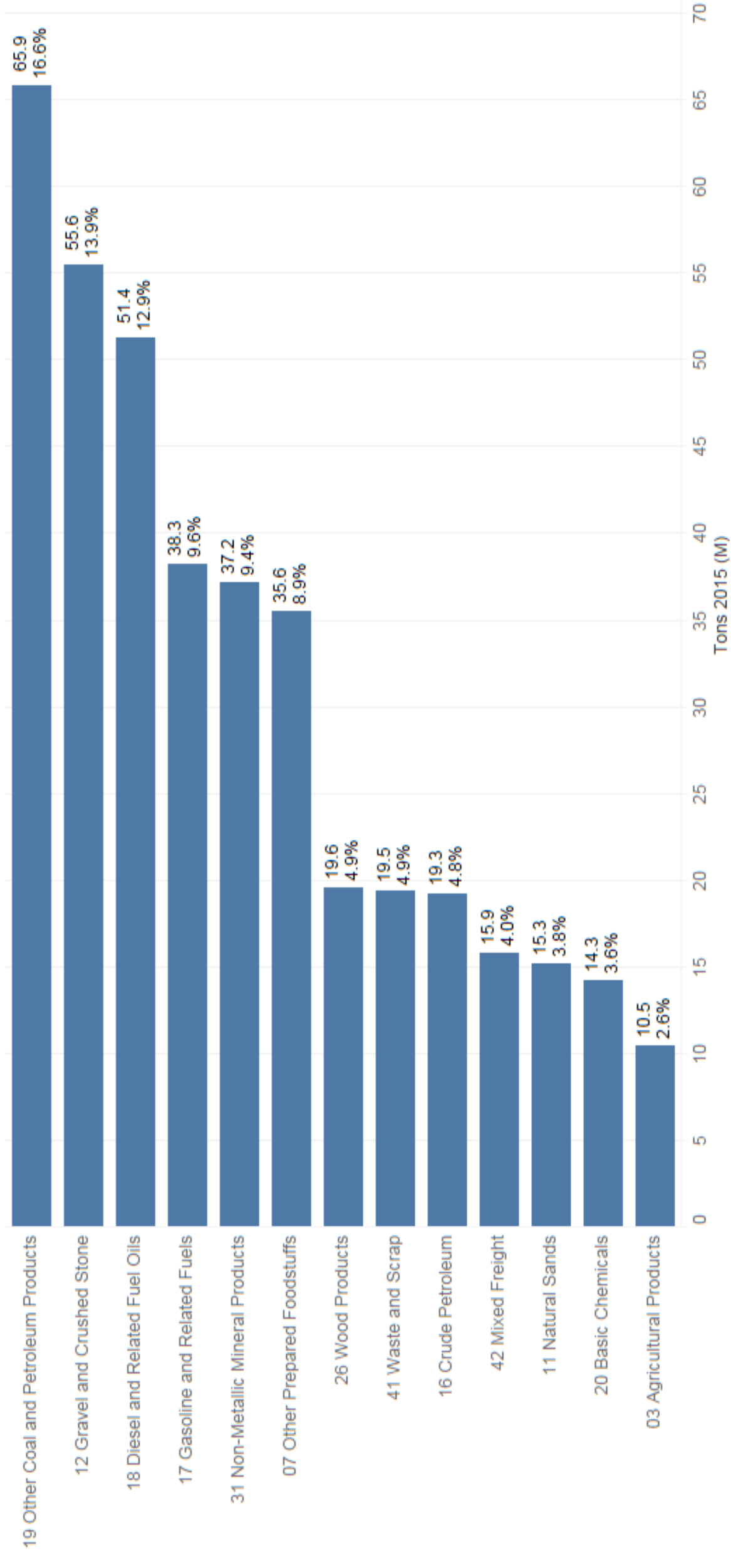
# TONS AND VALUE BY TRADE TYPE -- “LEAKED”

Shares of Tons and Value by Trade Type



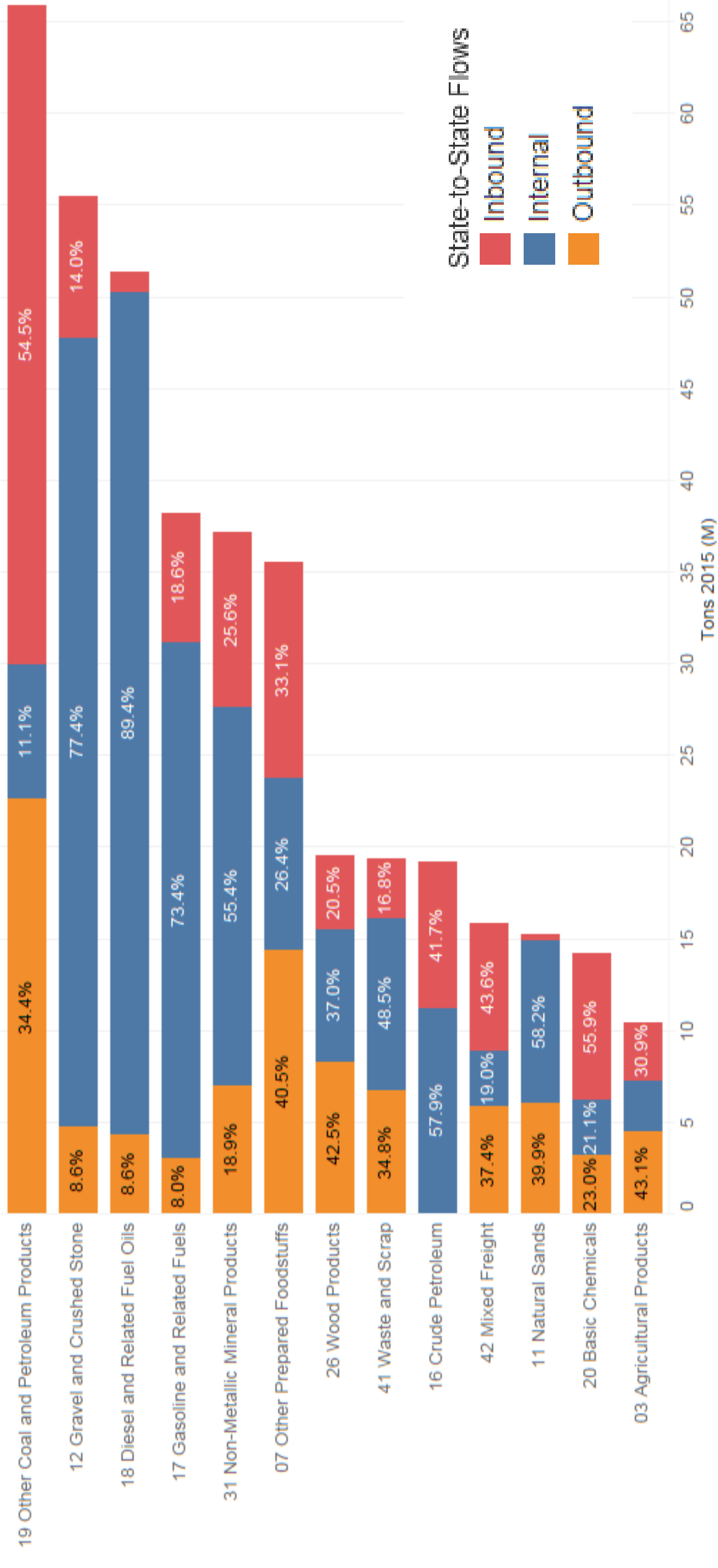
# TONS AND SHARES BY COMMODITY

Tons and Shares by Commodity (SCTG2)



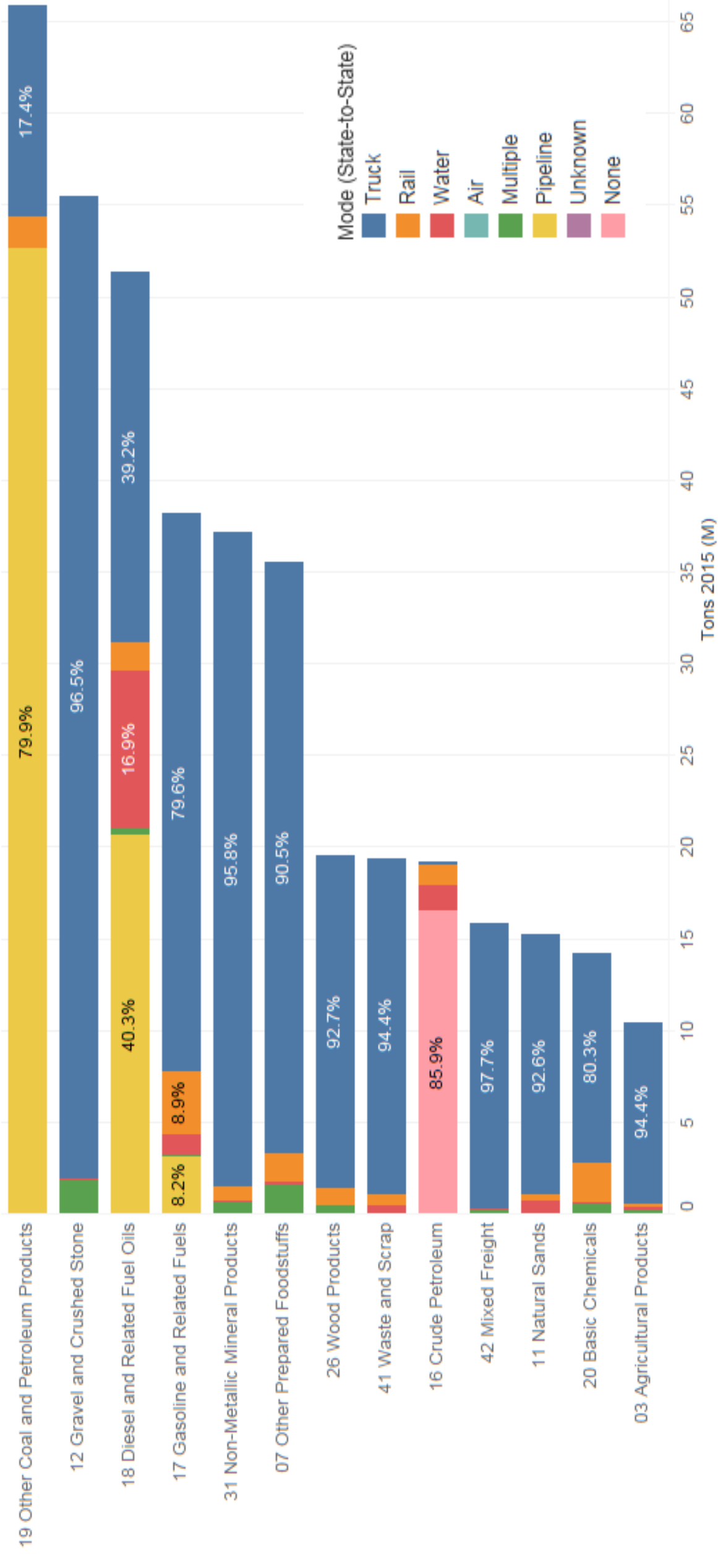
# TONS BY COMMODITY AND DIRECTION

Tons by Commodity (SCTG2) and Direction



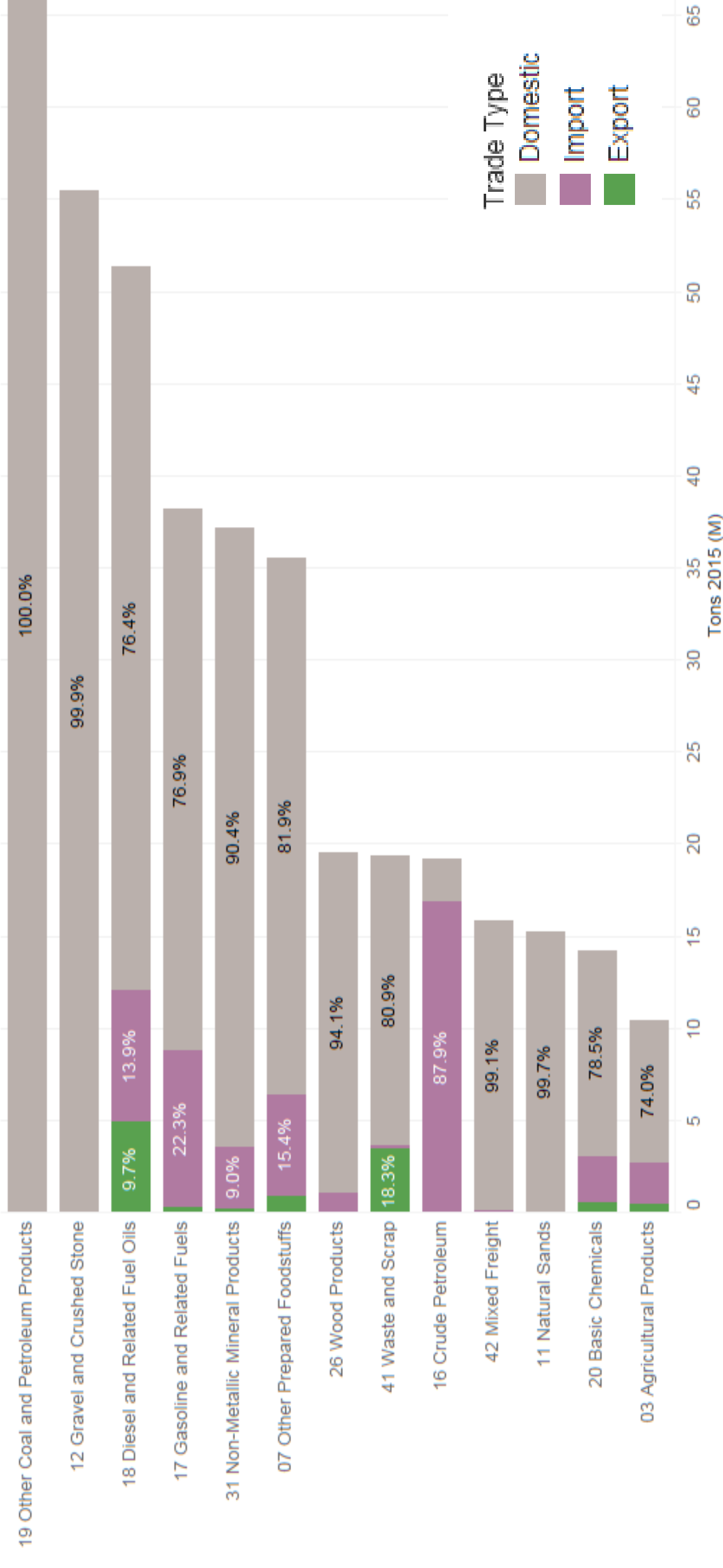
# TONS BY COMMODITY AND MODE

Tons by Commodity (SCTG2) and State-to-State Mode



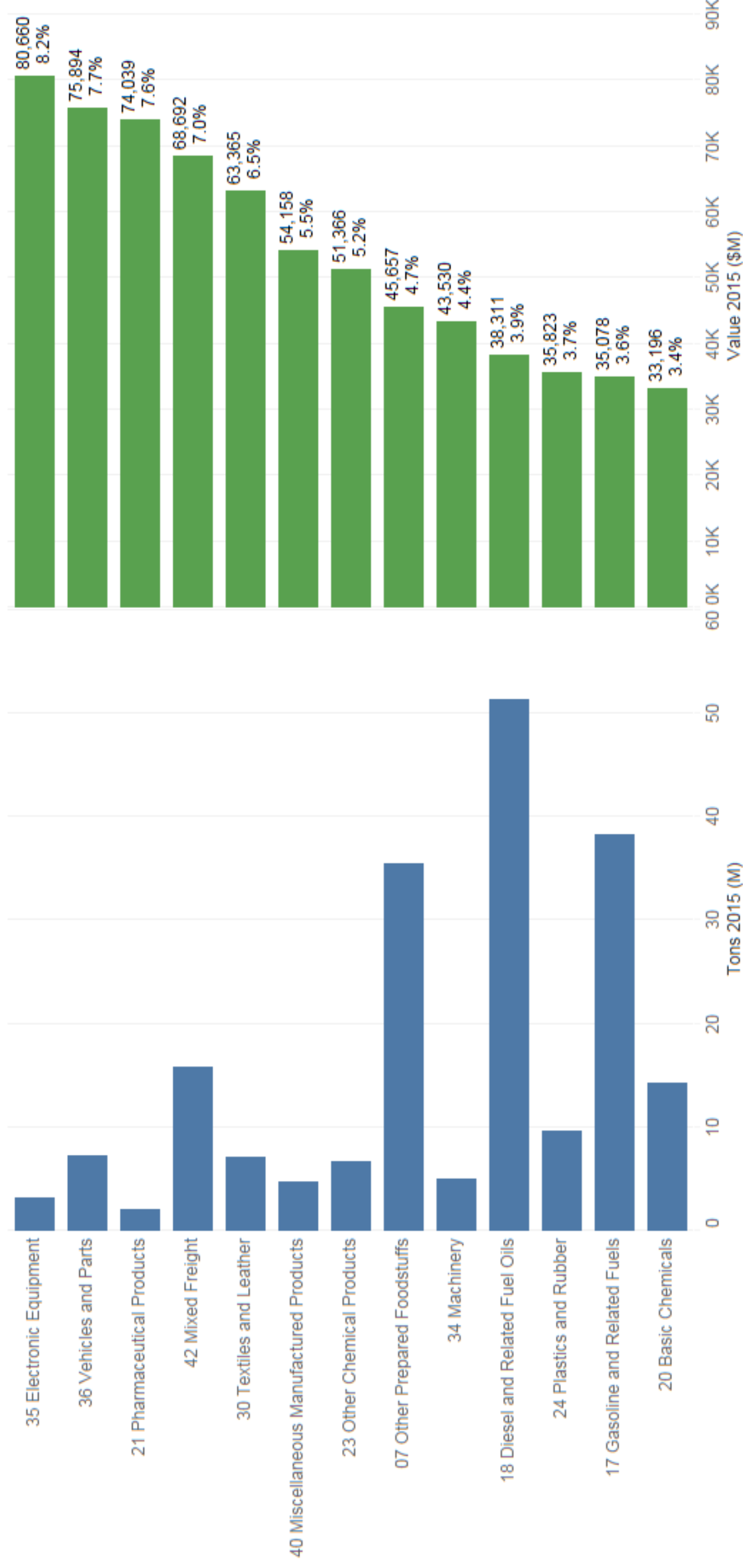
# TONS BY COMMODITY AND TRADE TYPE

Tons by Commodity (SCTG2) and Trade Type



# VALUE AND SHARES BY COMMODITY

Value and Shares by Commodity



# VALUE BY COMMODITY AND DIRECTION

## Value by Commodity and Direction

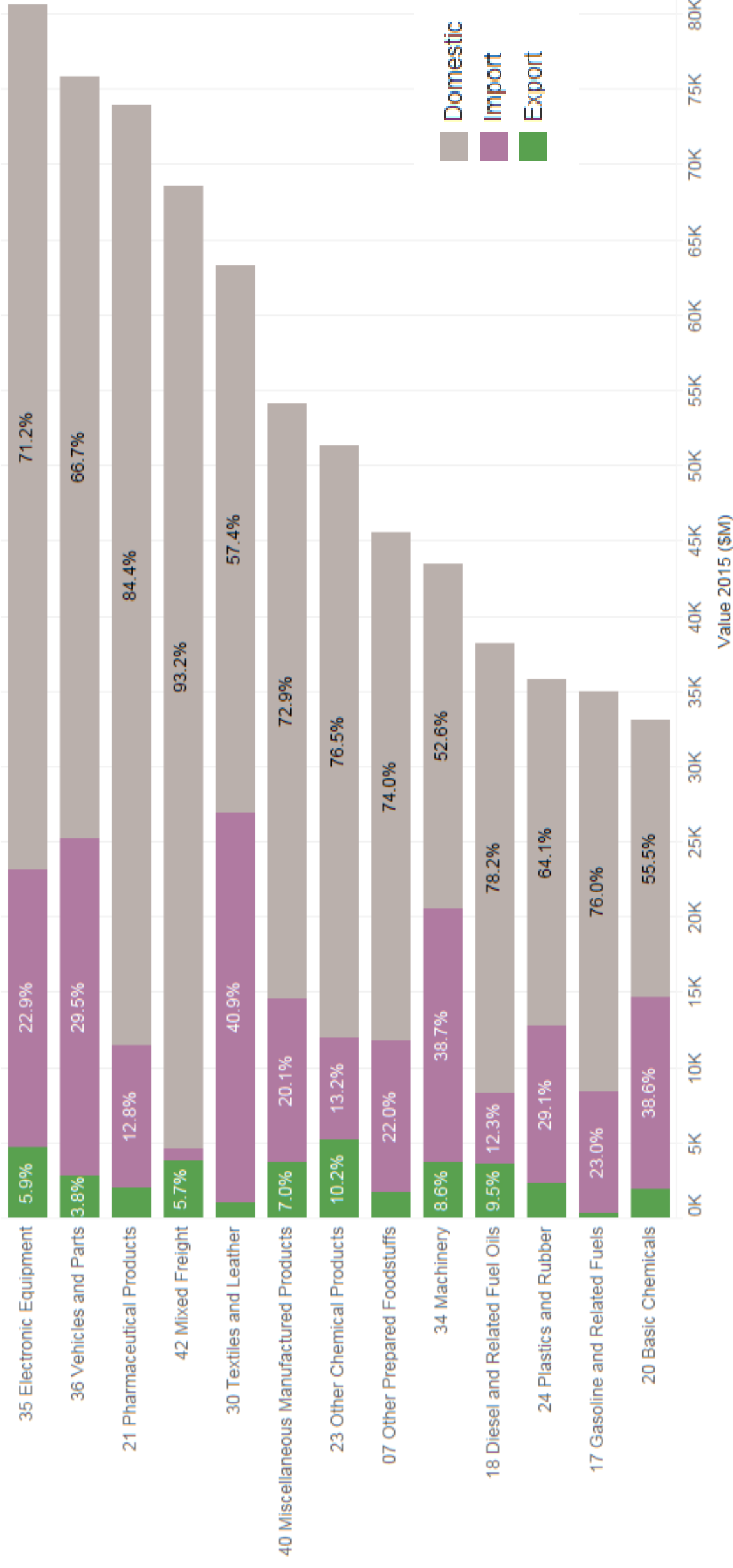






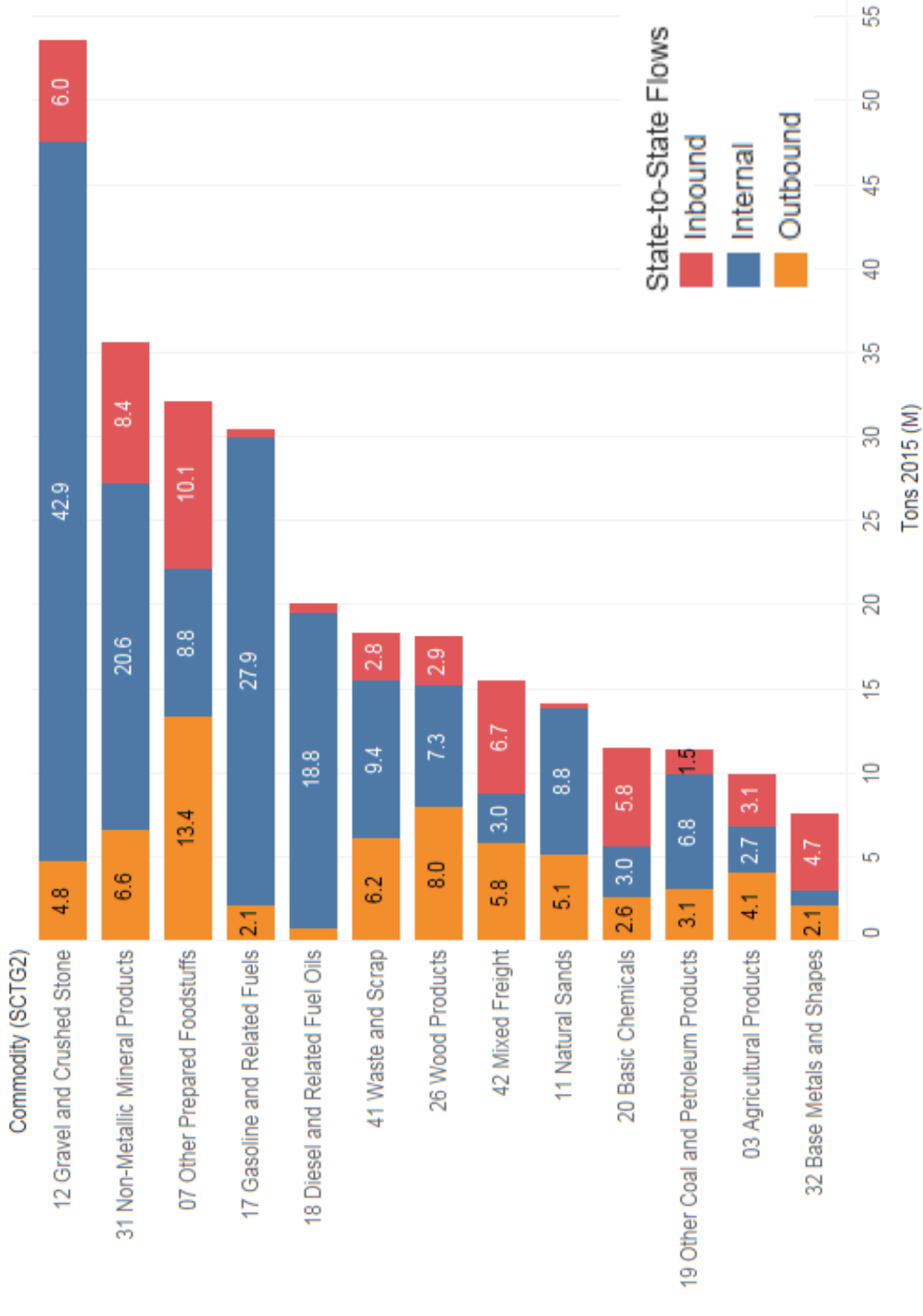
# VALUE BY COMMODITY AND TRADE TYPE

Value by Commodity and Trade Type



# TONS BY STATE-TO-STATE TRUCK

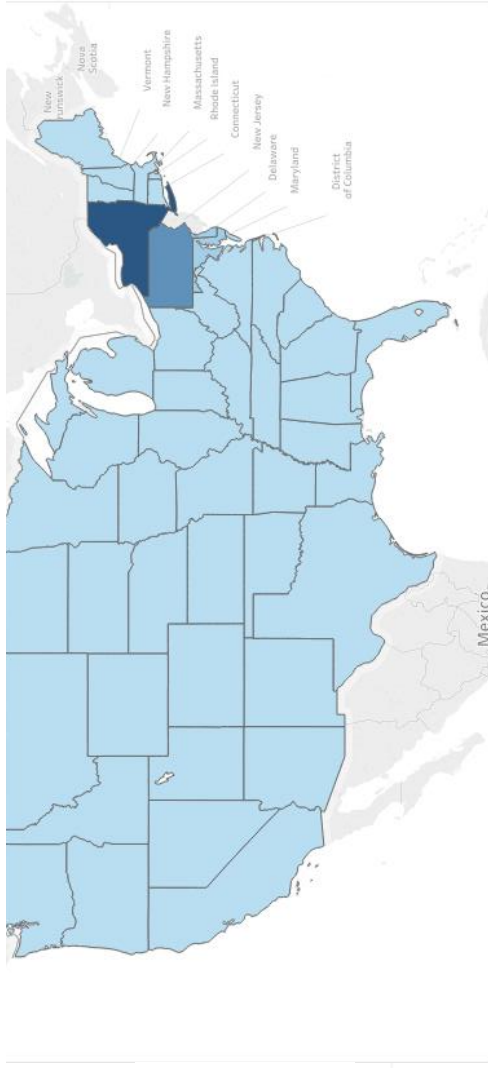
Commodity Tons by State-to-State Truck



Origin States – Truck Tons

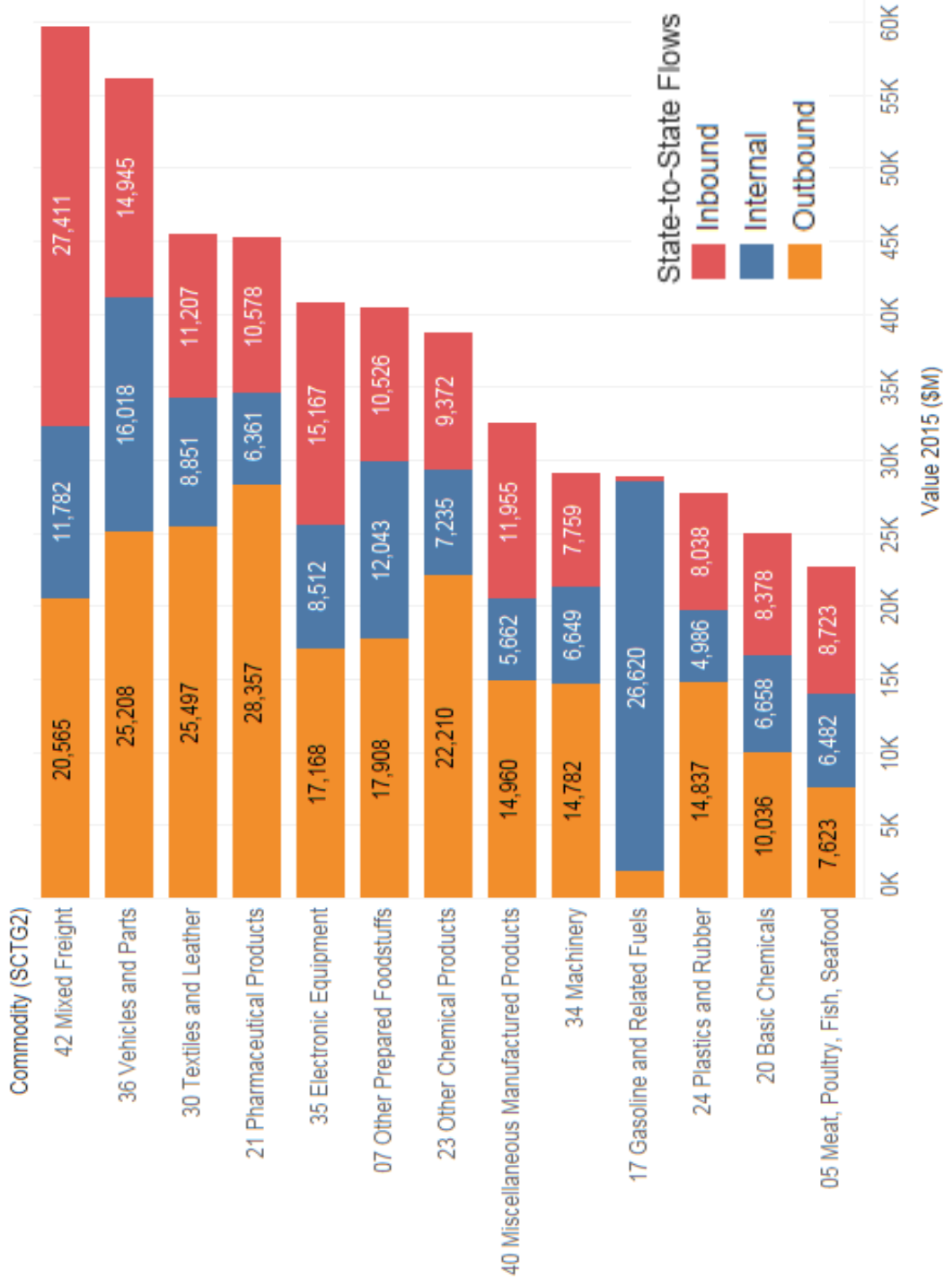


Destination States – Truck Tons

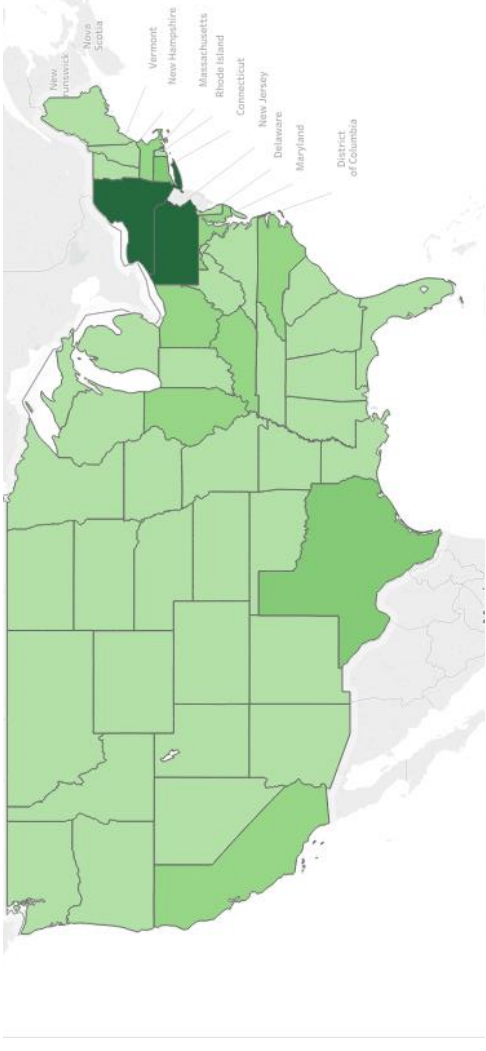


# VALUE BY STATE-TO-STATE TRUCK

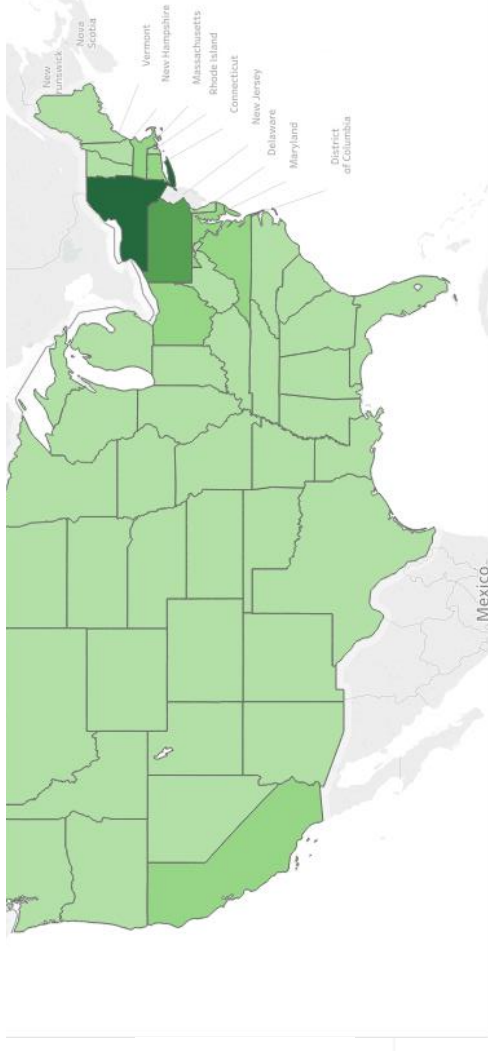
Commodity Value by State-to-State Truck



Origin States – Truck Value

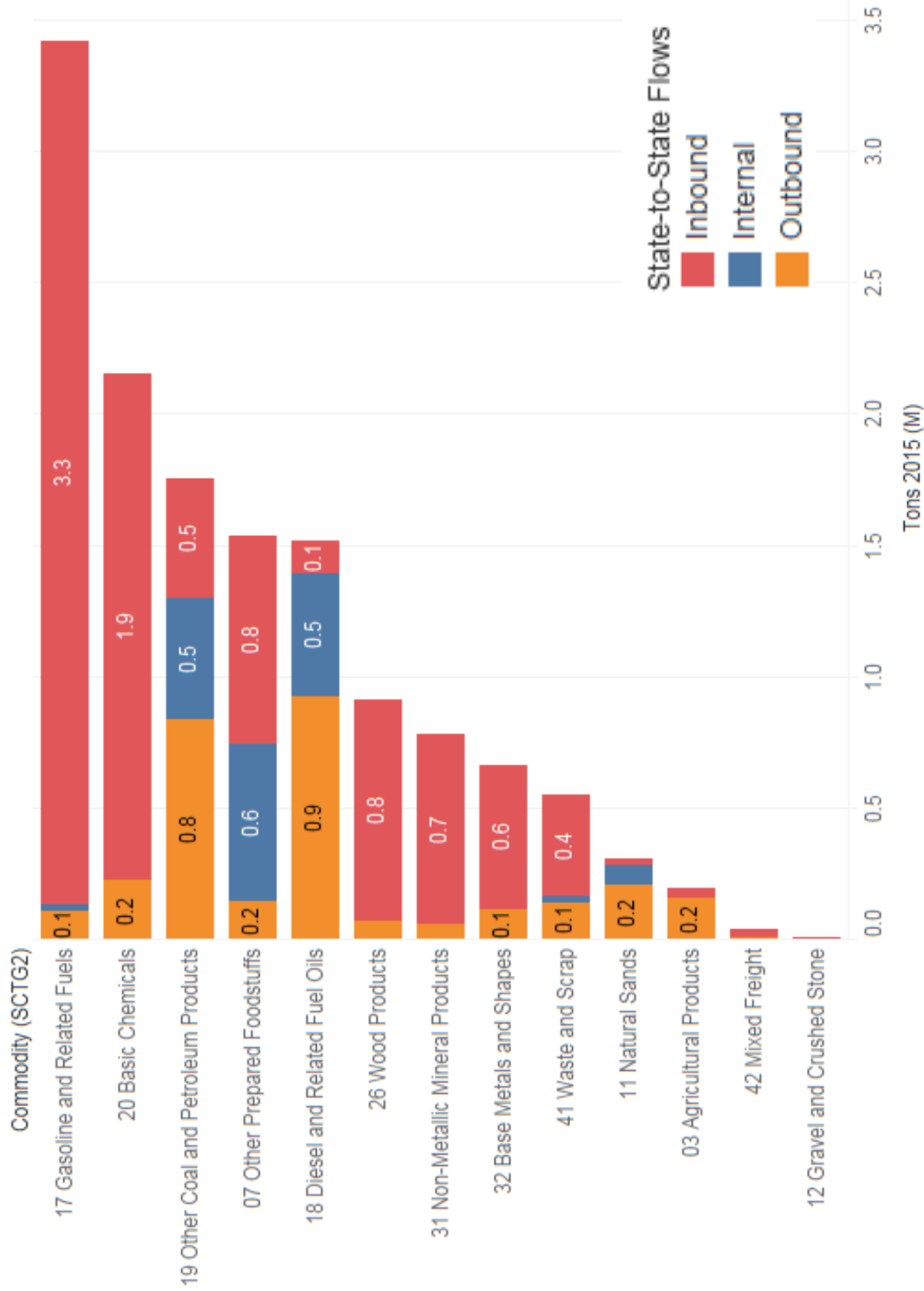


Destination States – Truck Value

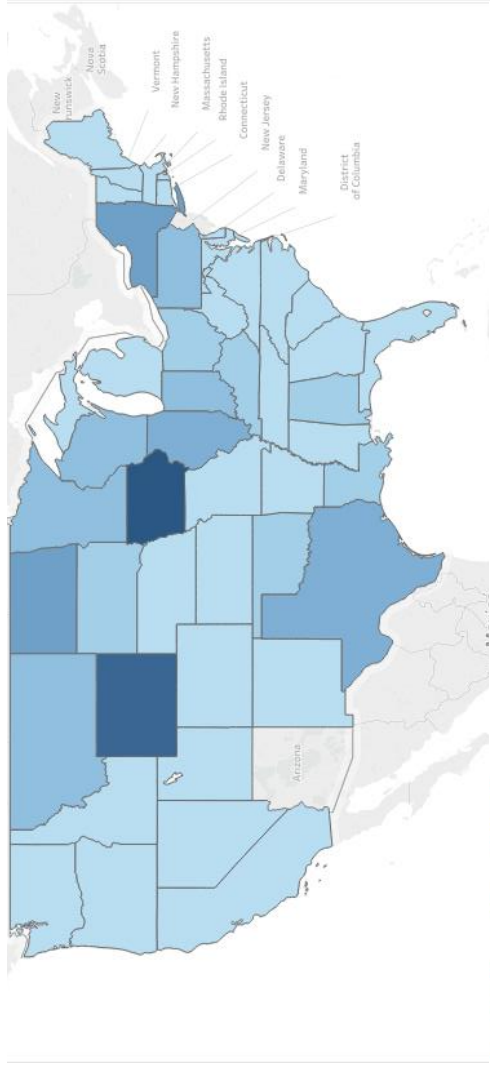


# TONS BY STATE-TO-STATE RAIL

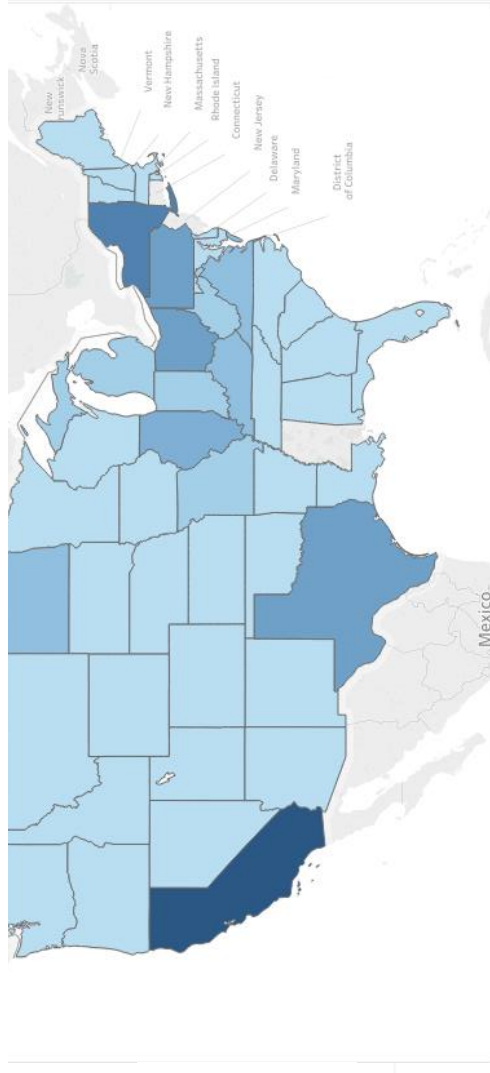
Commodity Tons by State-to-State Rail



Origin States – Rail Tons

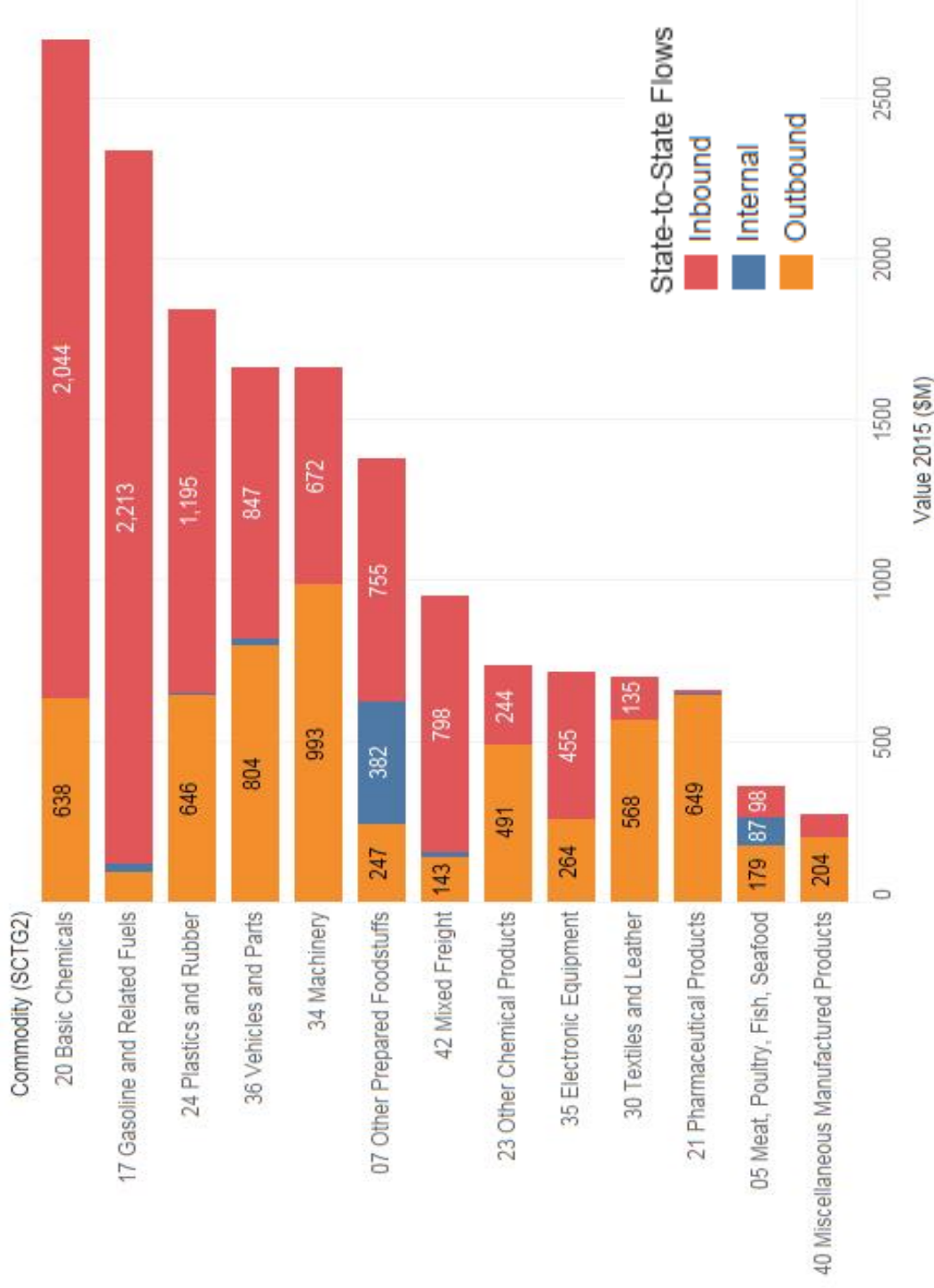


Destination States – Rail Tons

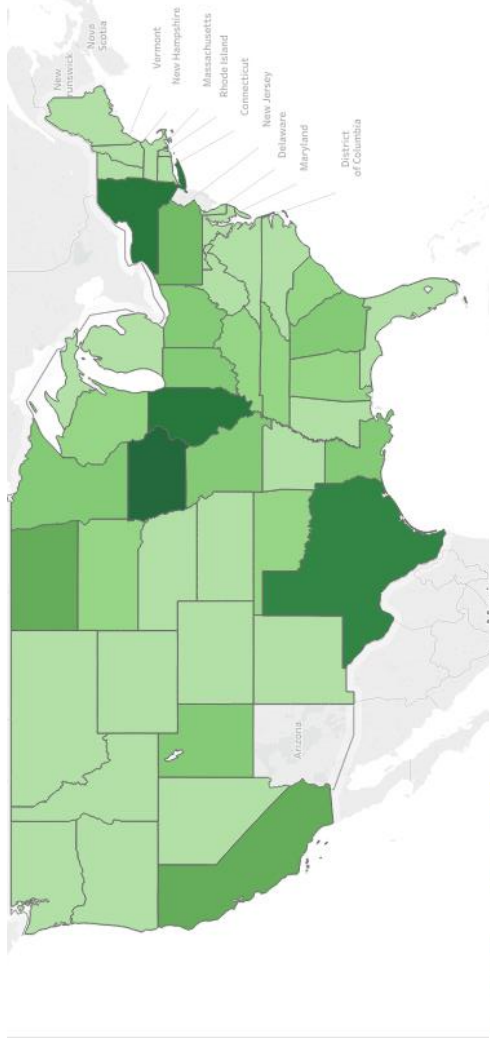


# VALUE BY STATE-TO-STATE RAIL

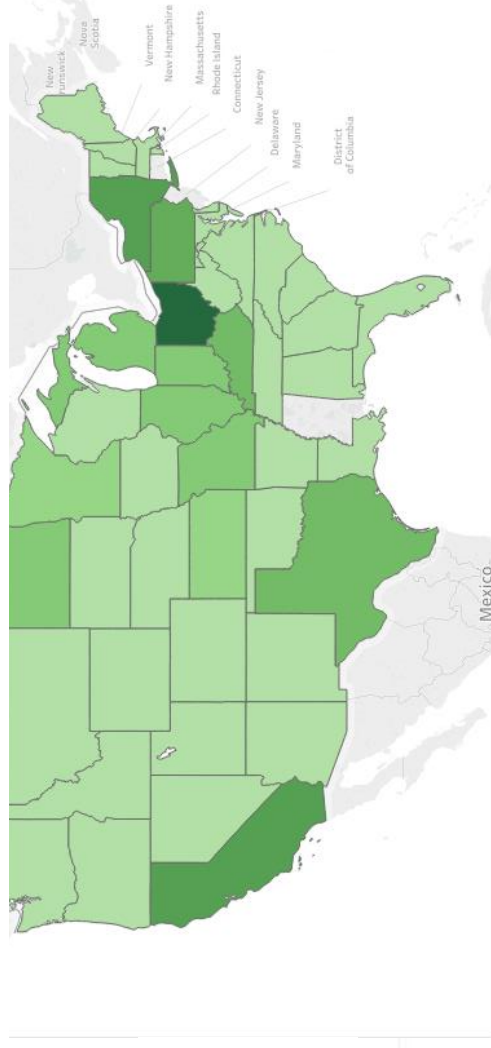
Commodity Value by State-to-State Rail



Origin States – Rail Value

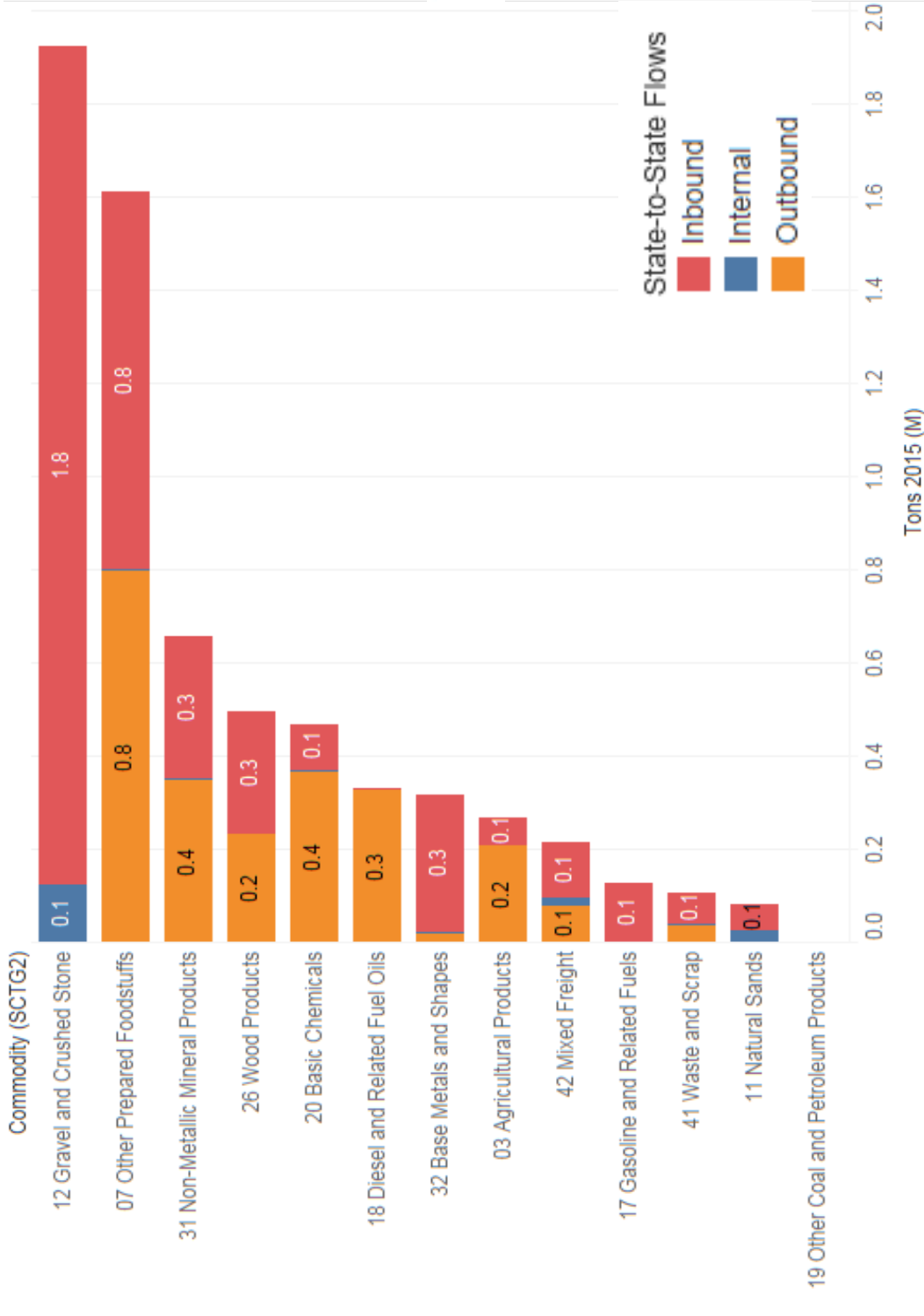


Destination States – Rail Value

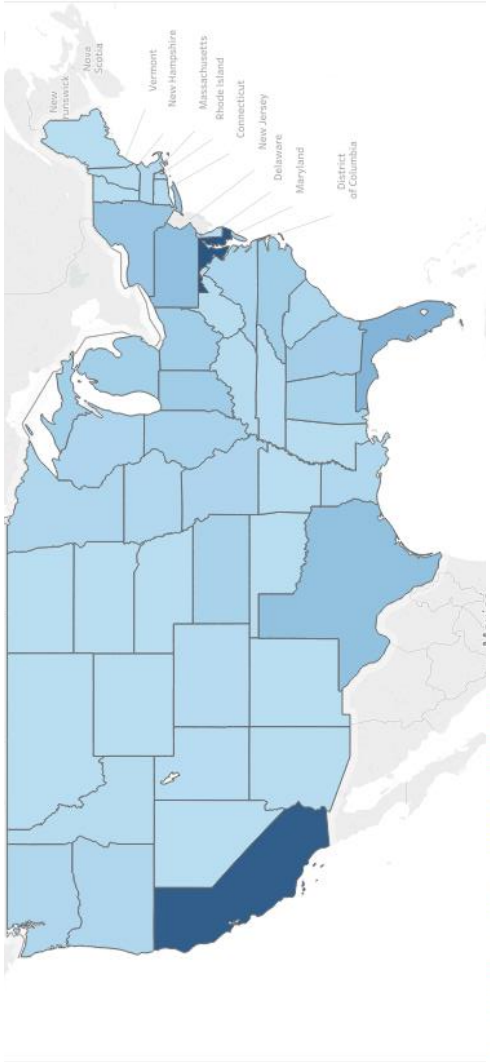


# TONS BY STATE-TO-STATE MULTIPLE MODES

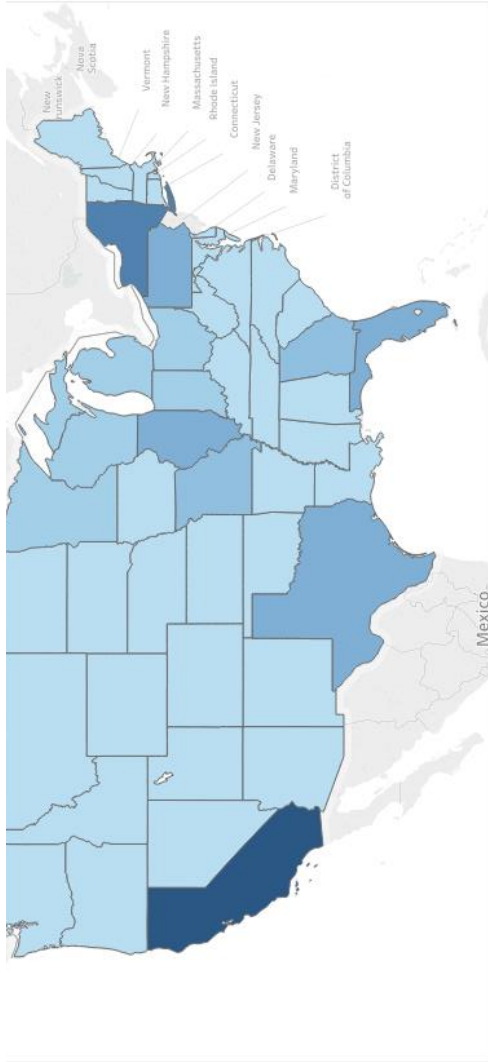
Commodity Tons by State-to-State Multiple Modes



Origin States – Multiple Modes Tons

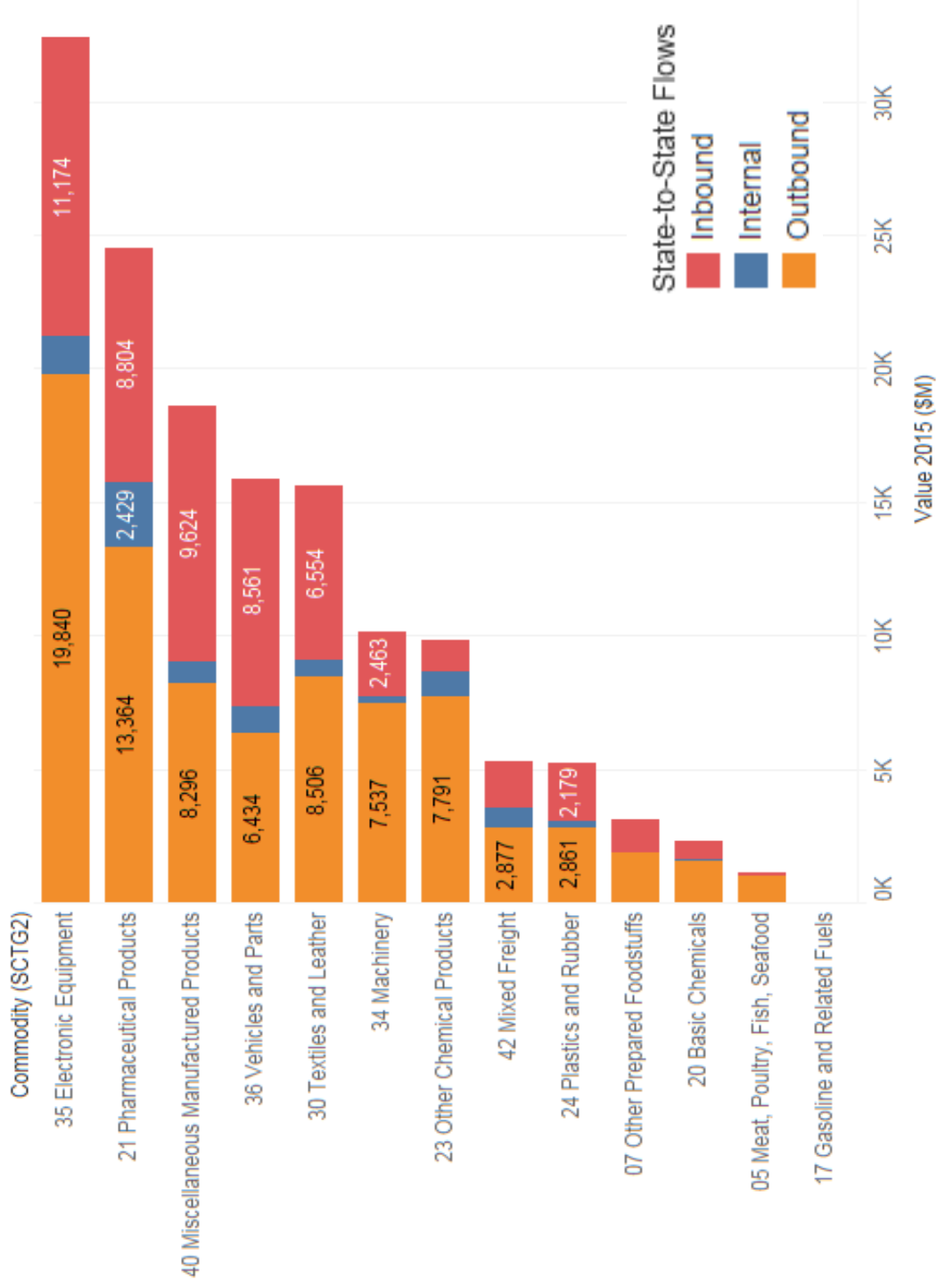


Destination States – Multiple Modes Tons

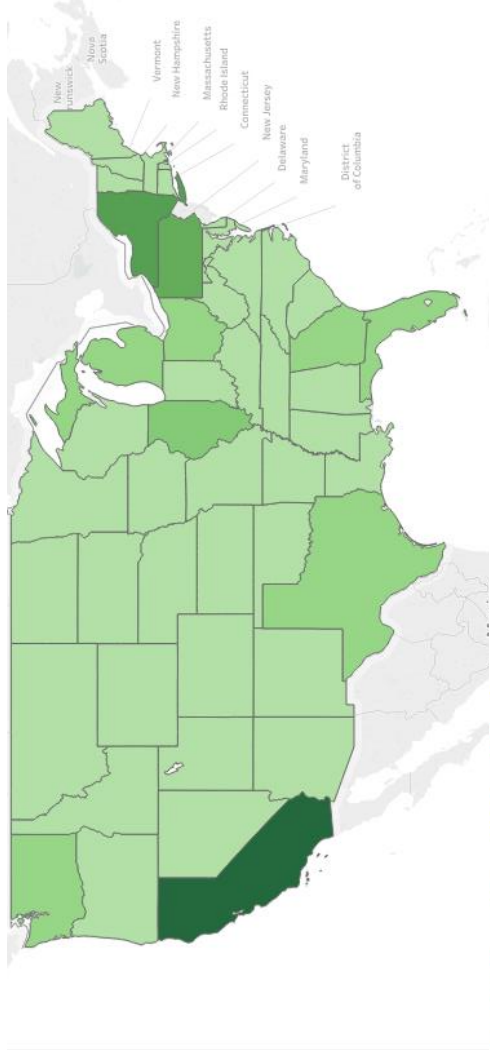


# VALUE BY STATE-TO-STATE MULTIPLE MODES

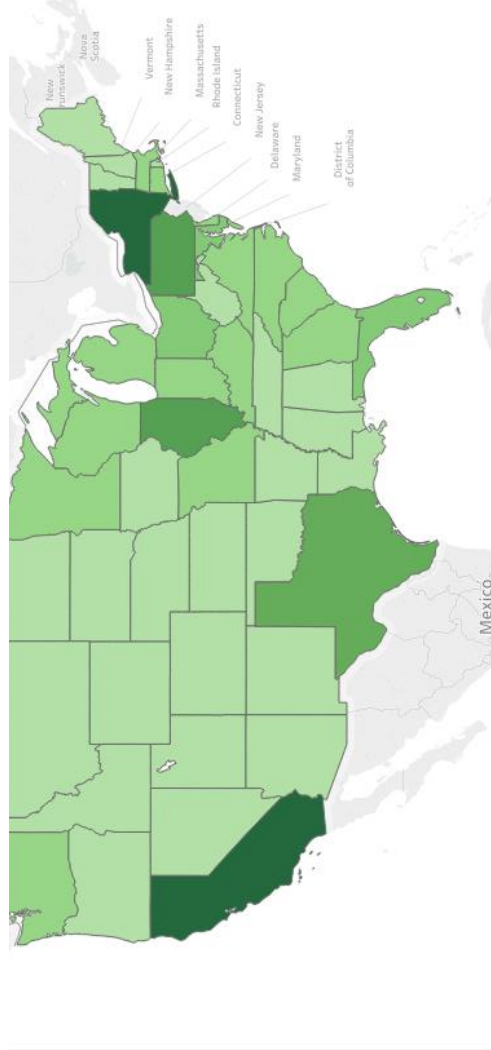
Commodity Value by State-to-State Multiple Modes



Origin States – Multiple Modes Value



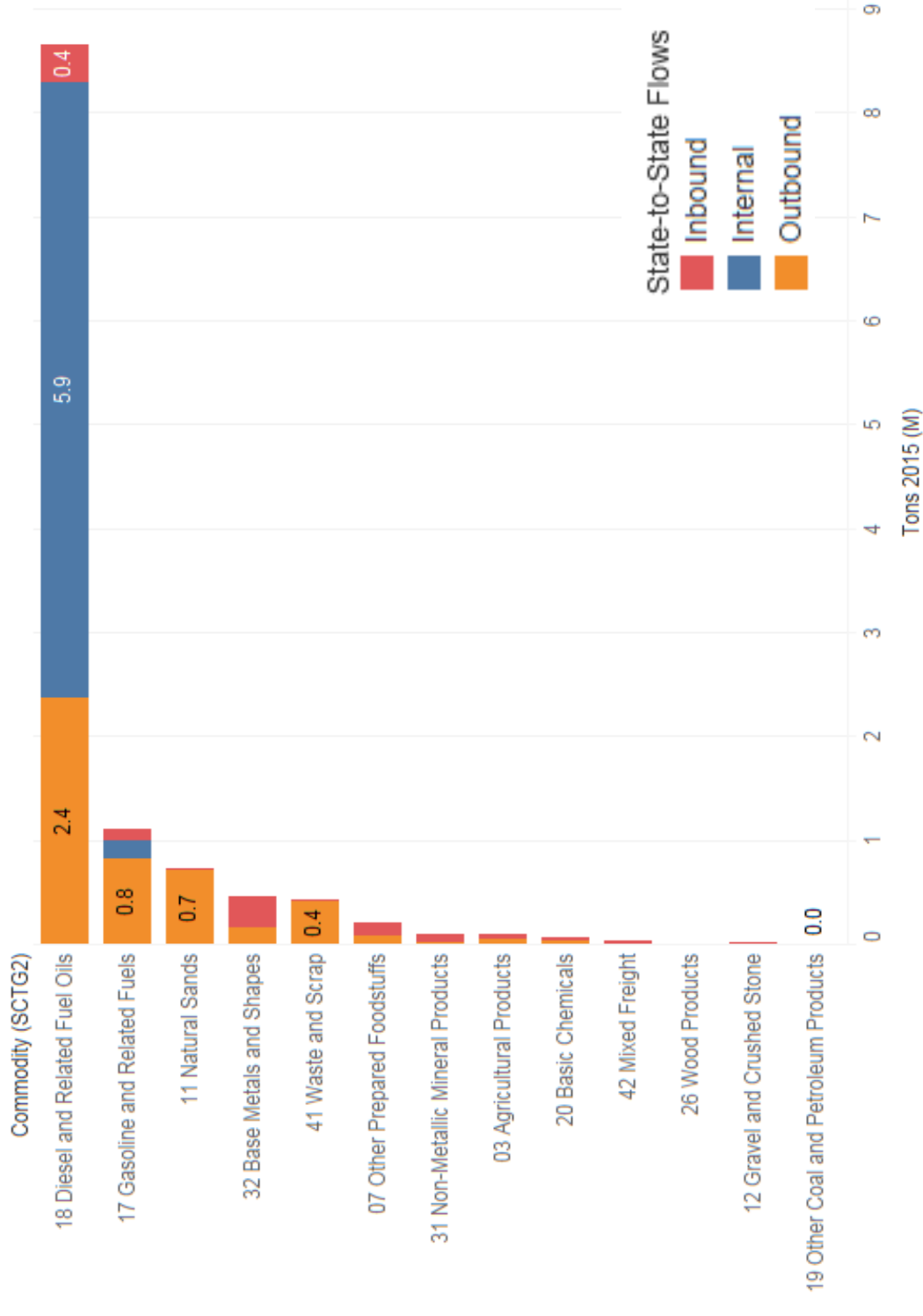
Destination States – Multiple Modes Value



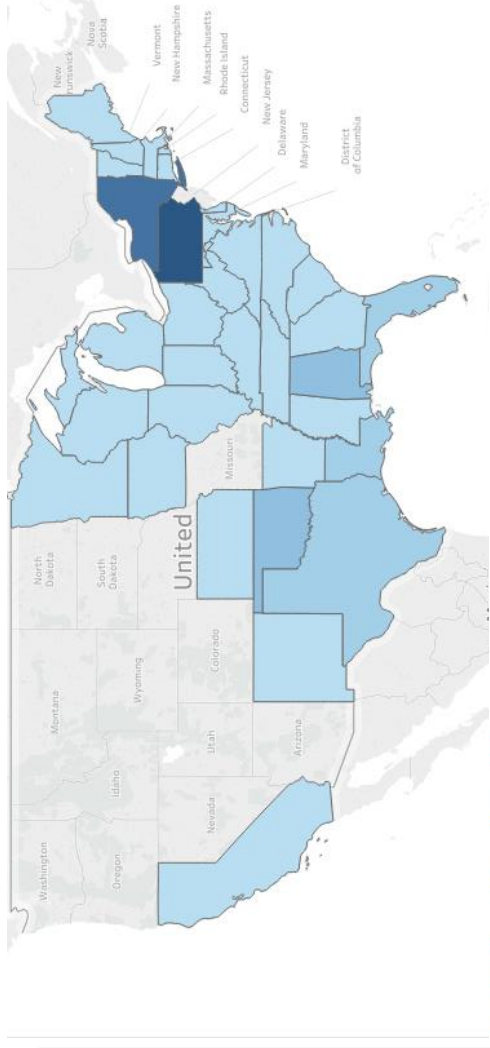


# TONS BY STATE-TO-STATE WATER

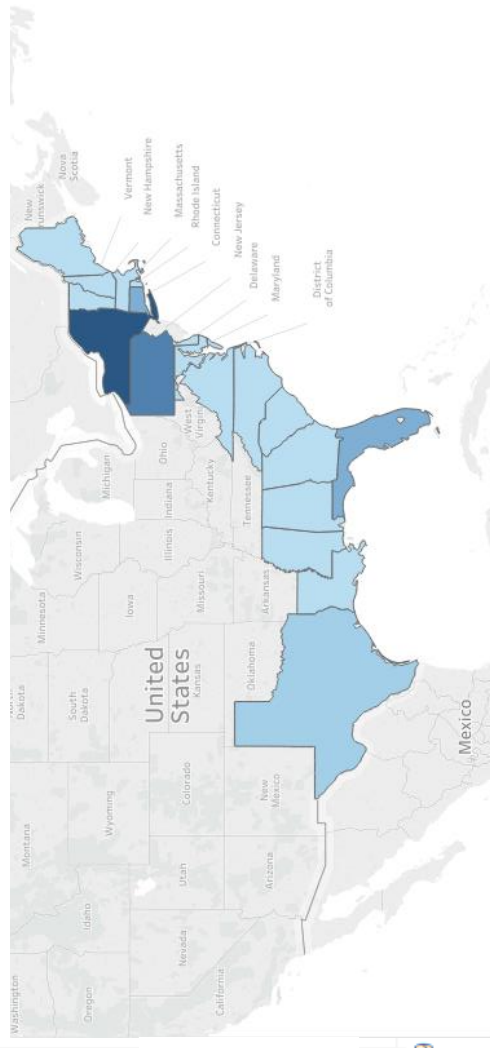
Commodity Tons by State-to-State Water



Origin States – Water Tons

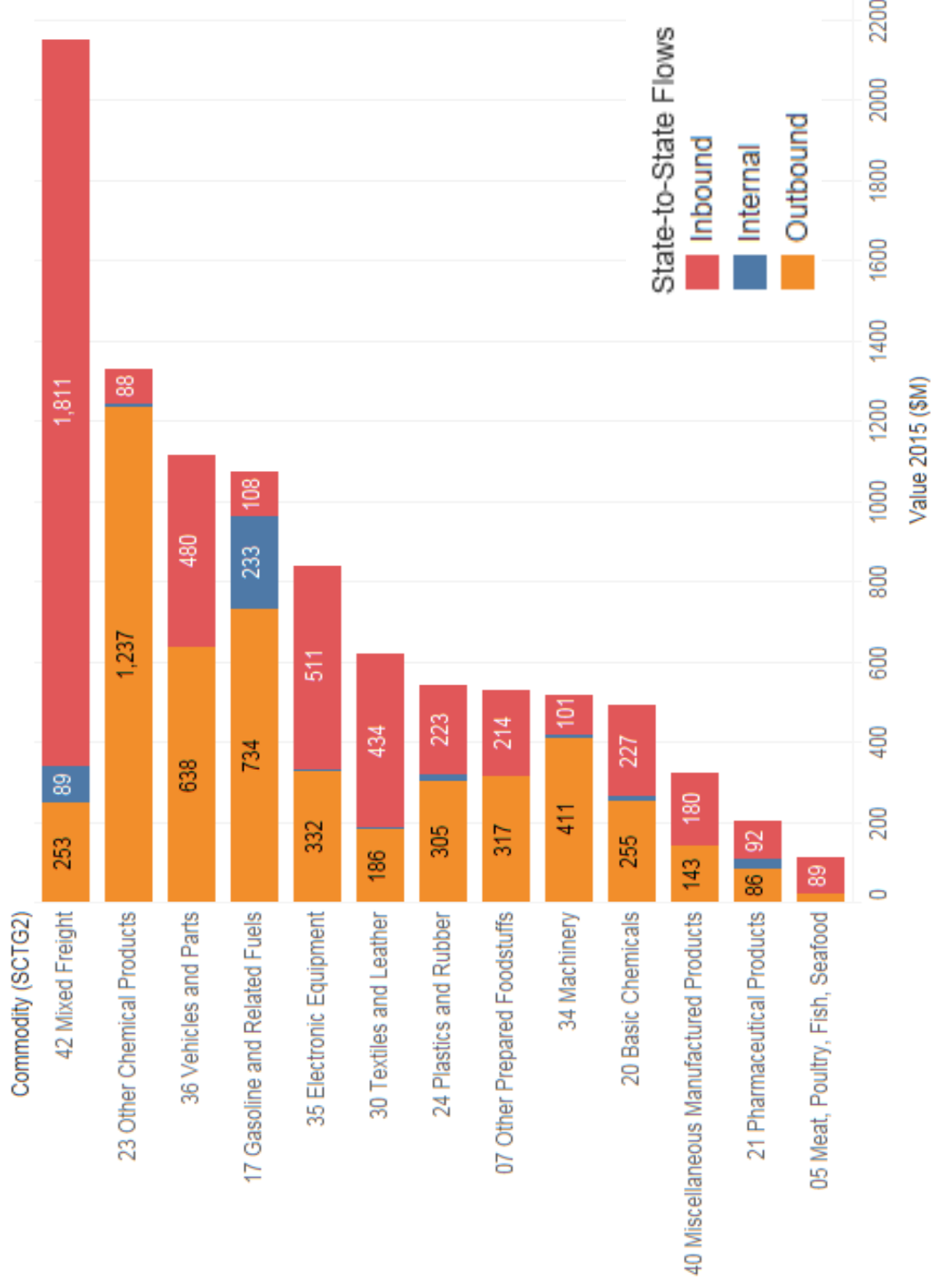


Destination States – Water Tons

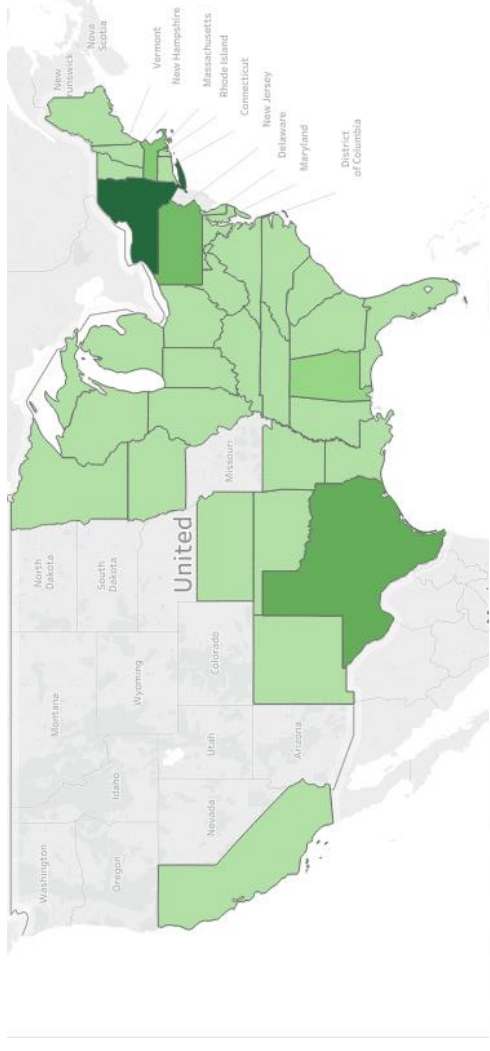


# VALUE BY STATE-TO-STATE WATER

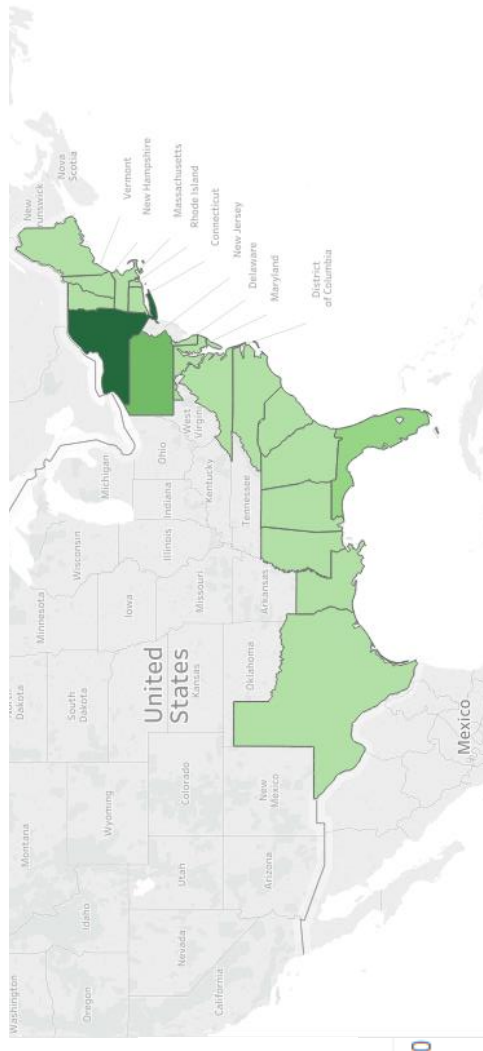
Commodity Value by State-to-State Water



Origin States – Water Value

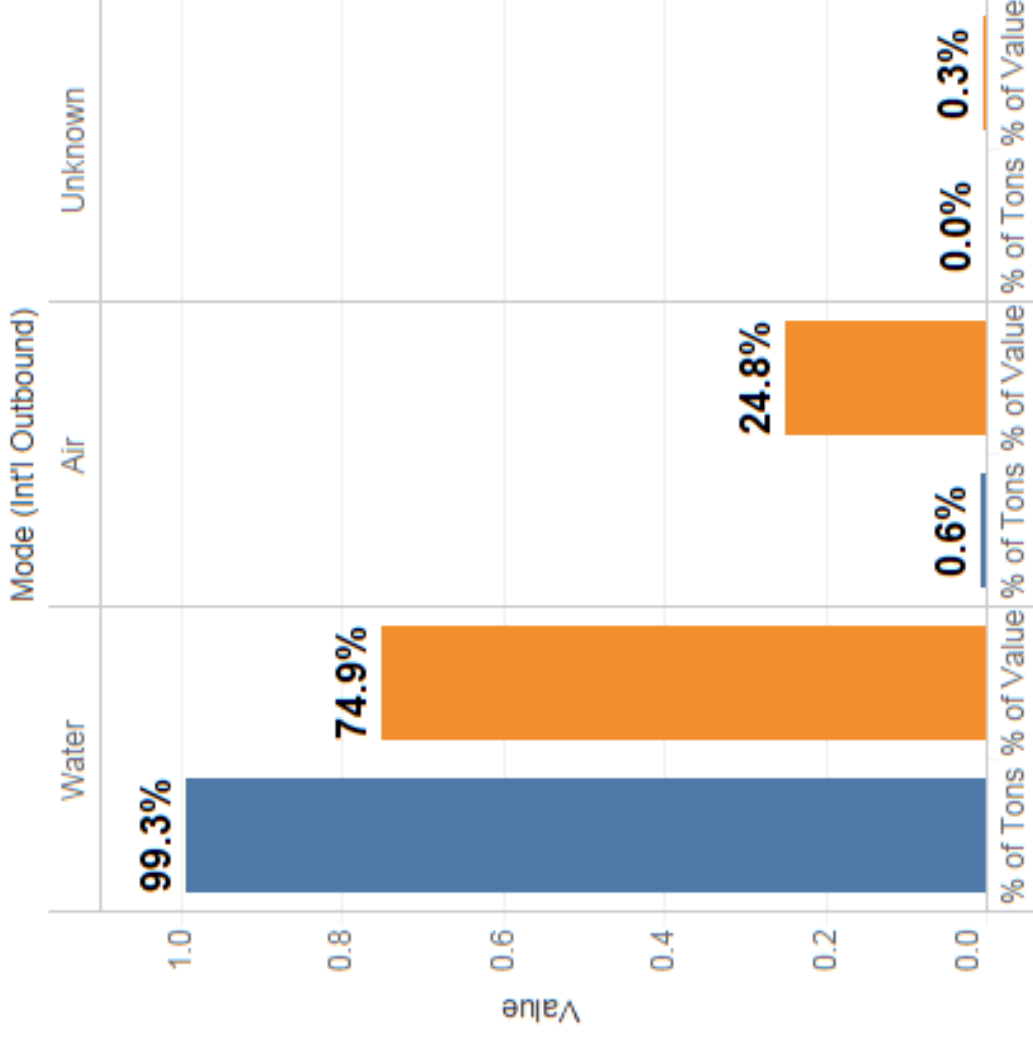


Destination States – Water Value

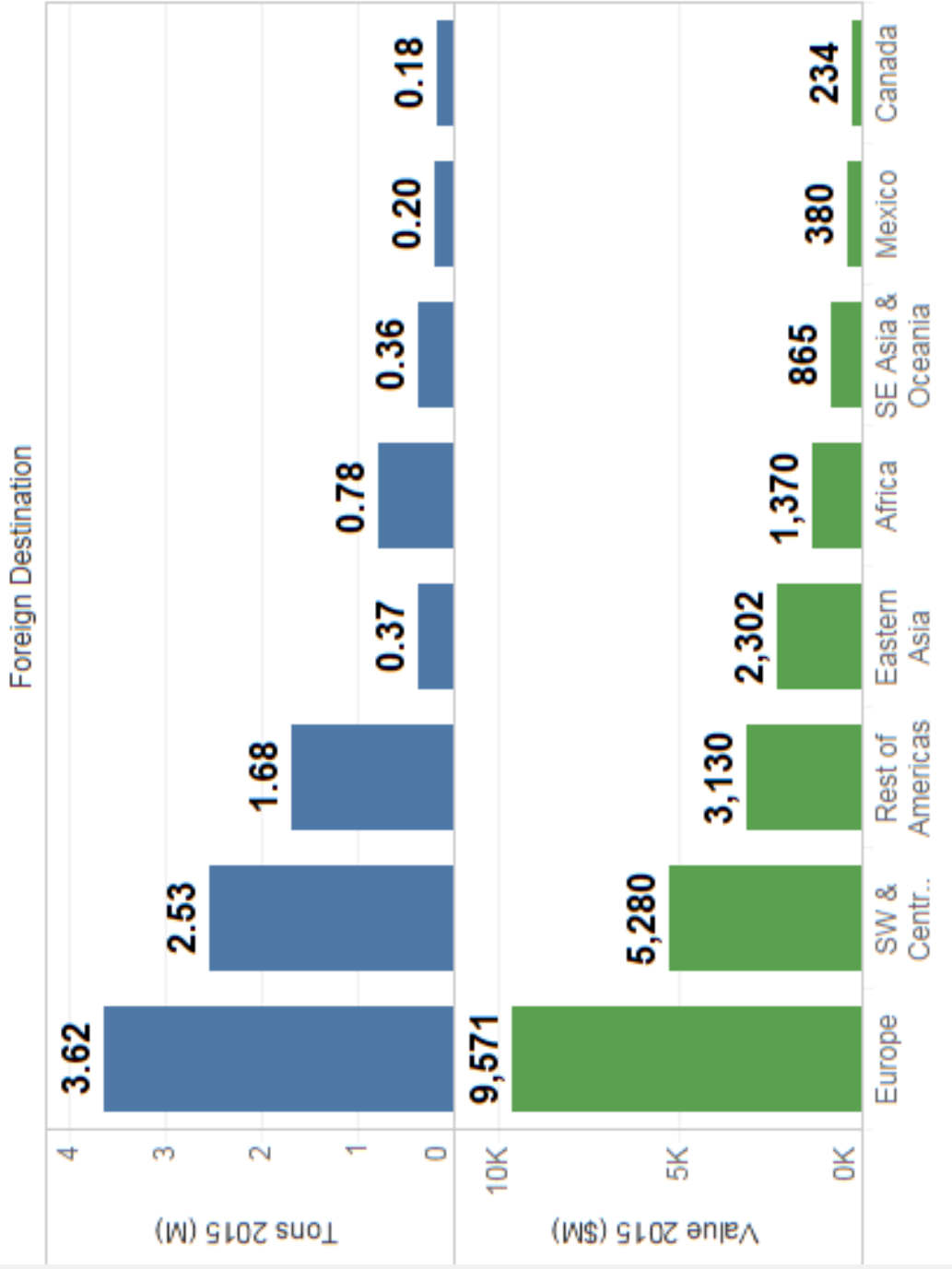


# INTERNATIONAL EXPORTS VIA STATE GATEWAYS

Int'l Modes for Exports via State Gateways

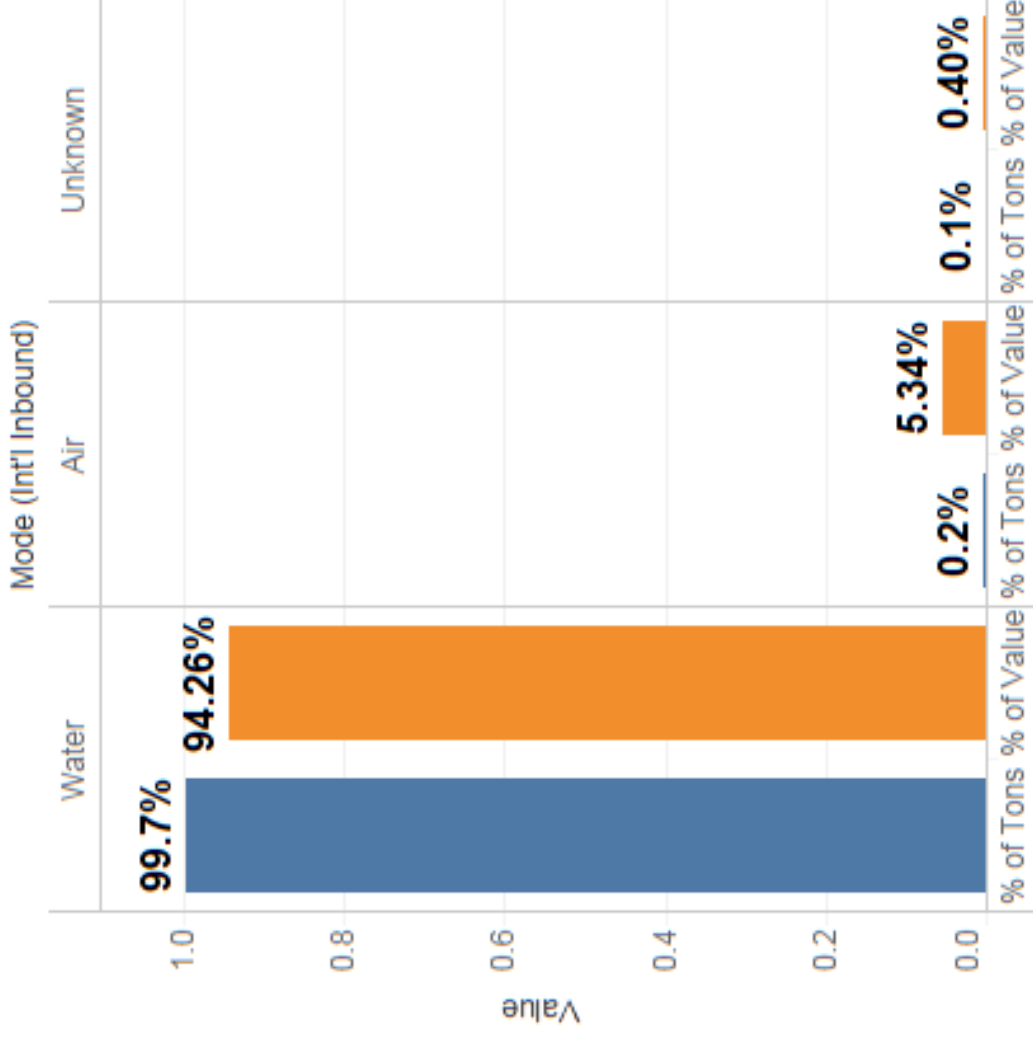


Trade Partners for Exports via State Gateways

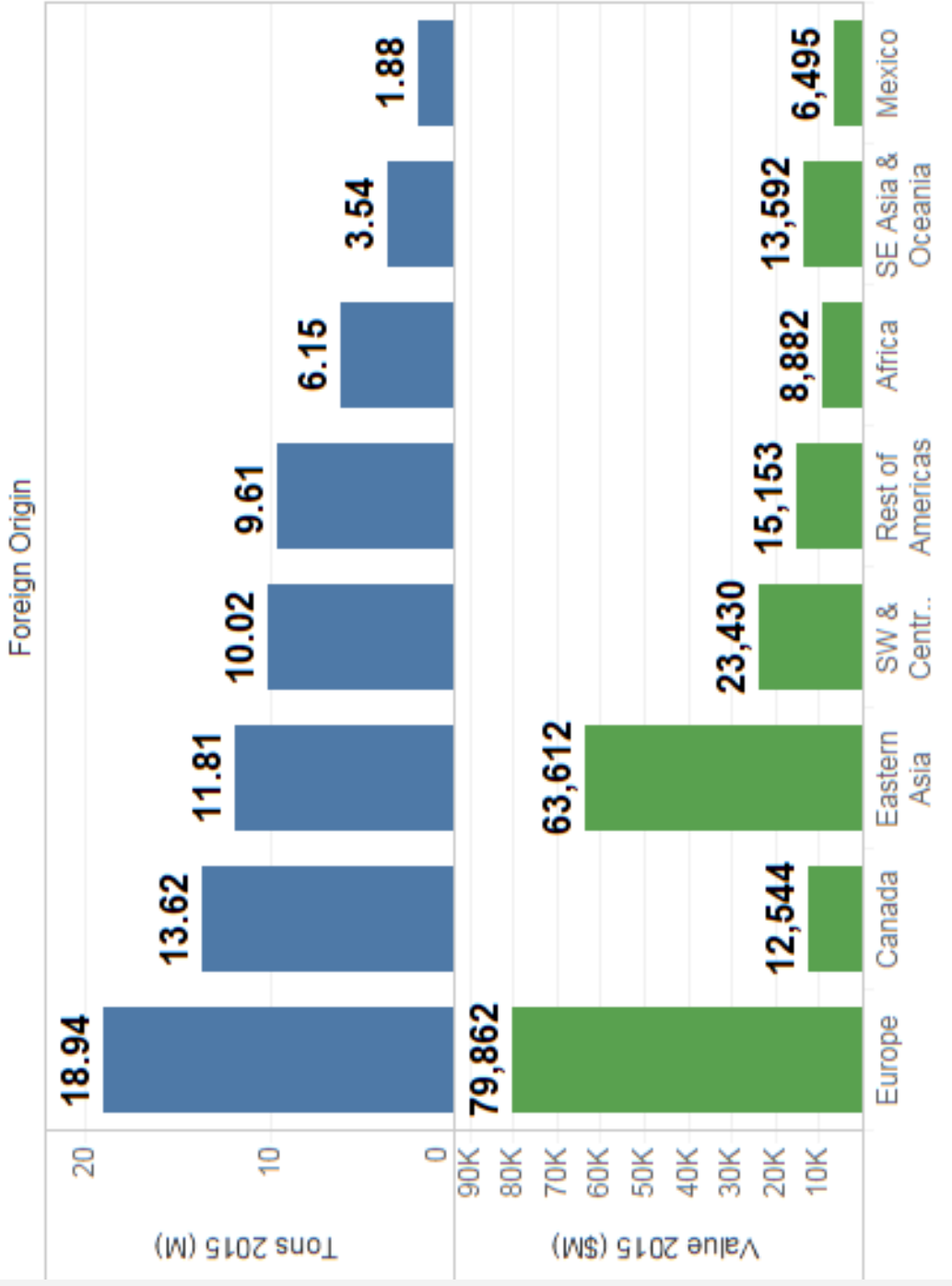


# INTERNATIONAL IMPORTS VIA STATE GATEWAYS

Int'l Modes for Imports via State Gateways



Trade Partners for Imports via State Gateways

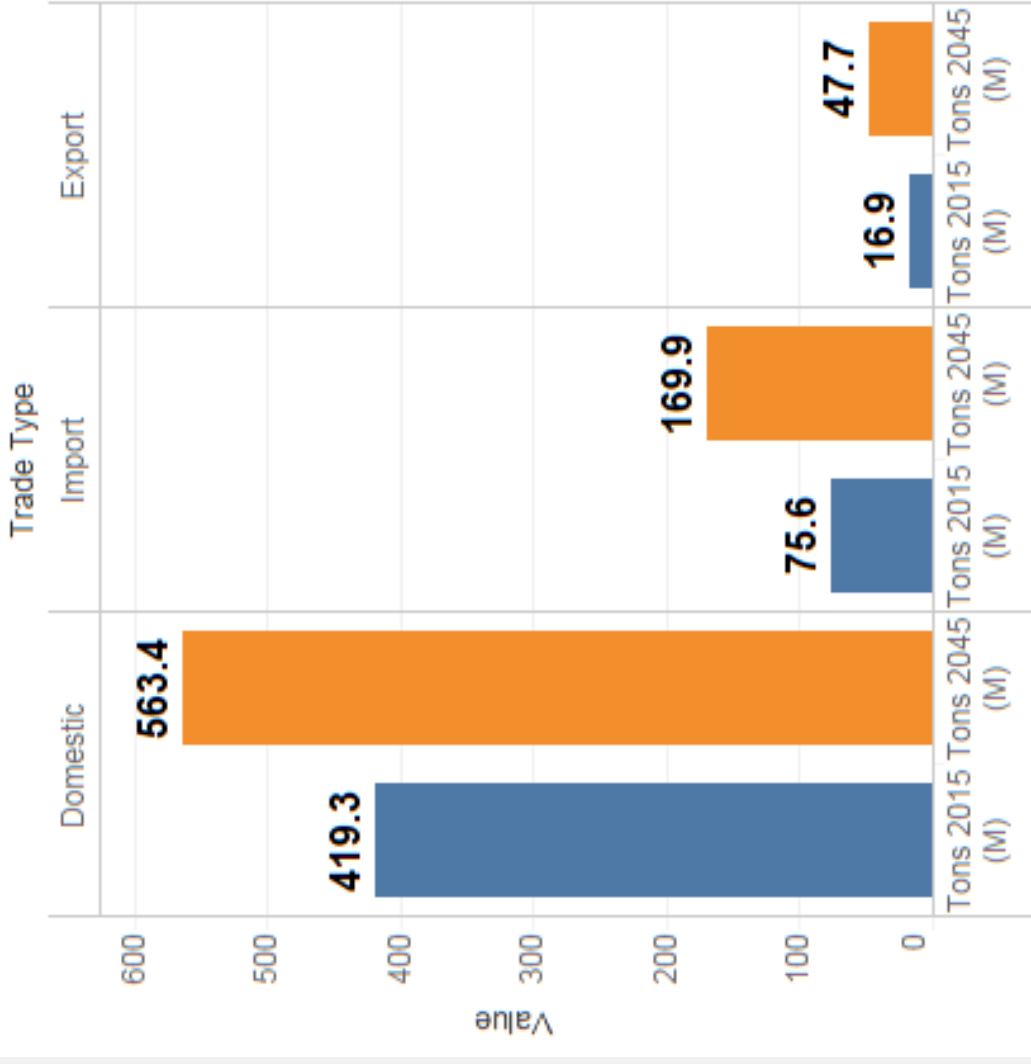


# FORECAST TONS BY MODE AND TRADE TYPE TO 2045

## Forecast Tons by State-to-State Mode

Mode (State-to-State)	Tons 2015 (M)	Tons 2045 (M)	Tons Added (M)	Tonnage CAGR
Truck	364.6	553.6	189.0	1.4%
Pipeline	76.7	100.5	23.8	0.9%
Multiple	15.2	38.0	22.9	3.1%
Rail	22.5	37.4	14.8	1.7%
Water	16.0	28.4	12.4	1.9%
None	16.6	22.2	5.6	1.0%
Air	0.2	0.6	0.4	3.6%
Unknown	0.1	0.3	0.2	4.5%
<b>Grand Total</b>	<b>511.8</b>	<b>781.0</b>	<b>269.2</b>	<b>1.4%</b>

## Forecast Tons by Trade Type



# NEXT STEPS

- **Supplemental sources and validation**
  - STB Public Rail Waybill
  - USACE Waterborne Commerce of the US
  - BTS T-100
  - US Census Trade
  - NJDOT 2007 Transearch
- **Plan document with appendices**



# HIGHWAY TRUCK PERFORMANCE MEASURES

- Planning Truck Travel Time Index
- Percentage Miles of Uncongested Truck Travel
- Average Truck Travel Speed
- Percentile Truck Travel Time



# PLANNING TRUCK TRAVEL TIME INDEX

- The planning time index represents how much total time a traveler should allow to ensure on-time arrival
- Compares near-worst case travel time to a travel time in light or free-flow traffic
- 95<sup>th</sup> / 50<sup>th</sup> Percentile
- < 1.5 considered as reliable; > 3.5 considered a problem area





# AVERAGE TRUCK TRAVEL SPEED

- Average Truck Speeds on Interstate systems range between 50–60 mph
- Average Truck Travel Speeds above 55 mph considered as uncongested

Source: FHWA Travel Time Reliability, <http://mobility.tamu.edu/mmp/>



# HIGHWAY PERFORMANCE SOURCE DATA

- **National Performance Management Research Data Set (NPMRDS)**
- **2016 January through December**
  - All-day (24 Hours)
  - Morning Peak Period (6am to 10am)
  - Evening Peak Period (3pm to 7pm)
  - Approximately 75,000 records

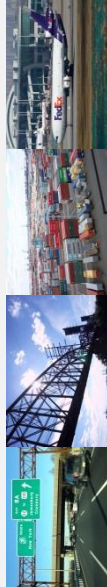


# OVERALL INTERSTATE HIGHWAY SYSTEM

- ✓ **Percentage Interstate Mileage Uncongested above or close to 80%**
- ✓ **Average Truck Travel Speeds above 55mph**
- ✓ **% of system providing for reliable travel times is above or close to 70%**

Note: \*Length based weighted average

<b>Performance Measures</b>			
	<b>All Day 24 Hours</b>	<b>Morning Peak Period</b>	<b>Evening Peak Period</b>
<b>% Uncongested Mileage</b>	<b>87.26%</b>	<b>85.34%</b>	<b>79.83%</b>
<b>Average Truck Speeds</b>	<b>57.16</b>	<b>56.52</b>	<b>55.63</b>
*Planning Truck Travel Time Index	1.55	1.66	1.76
<b>% Mileage (PTTTI: &lt; 1.5)</b>	<b>76.1%</b>	<b>75.2%</b>	<b>68.3%</b>
% Mileage (PTTTI: 1.5 - 3.5)	19.7%	20.1%	24.1%
% Mileage (PTTTI: 3.5 - 5.0)	2.4%	2.3%	4.6%
% Mileage (PTTTI: > 5.0)	1.7%	2.4%	3.0%
<b>*P10th Travel Time</b>	<b>2.79</b>	<b>-</b>	<b>-</b>
*P50th TT	2.98	-	-
*P90th TT	3.44	-	-
*P95th TT	3.90	-	-



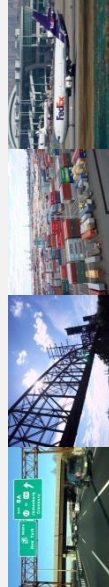
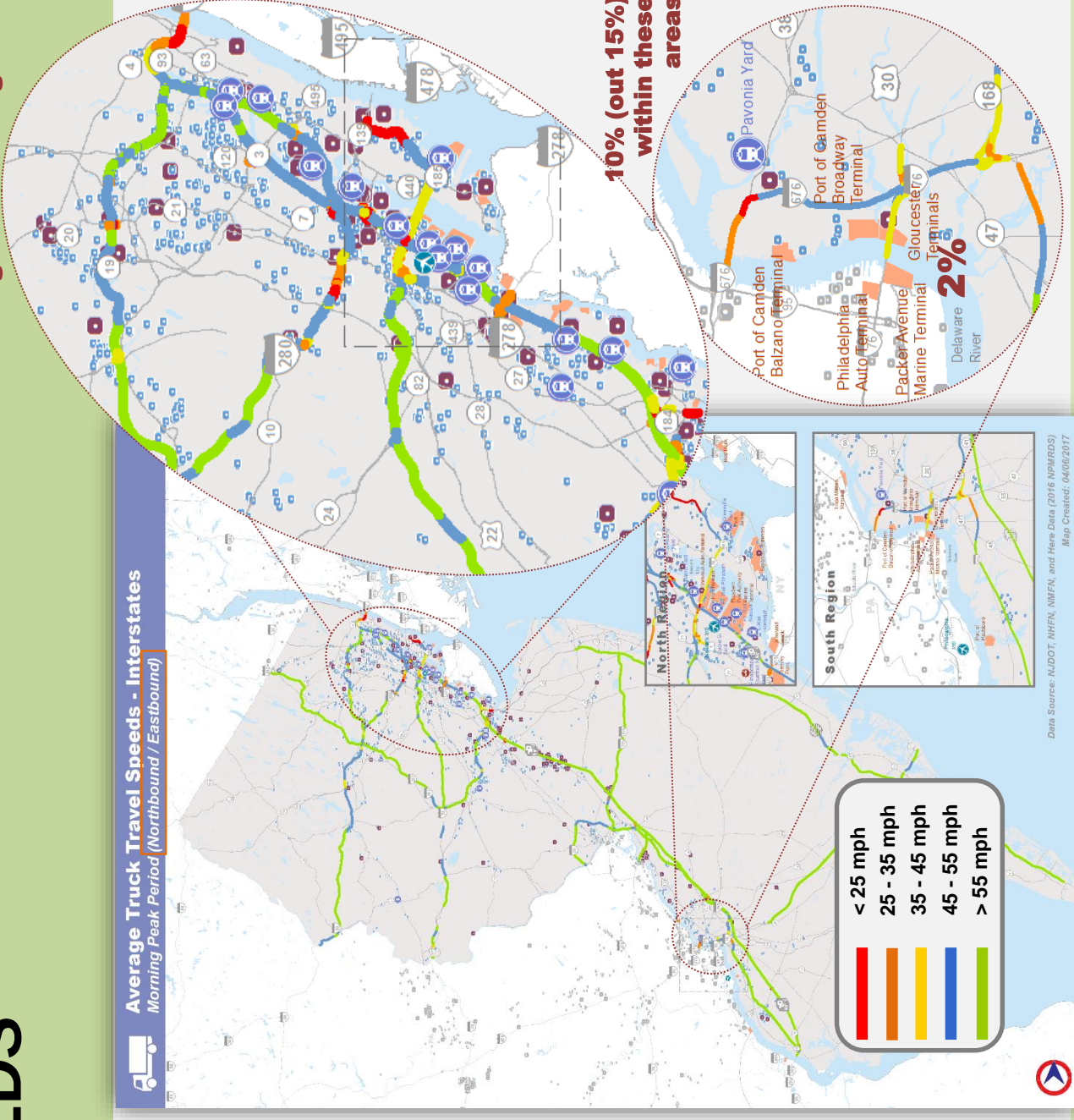
# AVERAGE TRUCK TRAVEL SPEEDS

## INTERSTATES – MORNING PEAK PERIOD

- Congestion (speeds < 55mph) approaching large activity centers and urban areas
- Average Truck Travel Speed 56.52 mph, uncongested
- Uncongested Mileage 85.34%

Note: Length based weighted average

## Congested Mileage



# PLANNING TRUCK TRAVEL TIME INDEX

## INTERSTATES – MORNING PEAK PERIOD

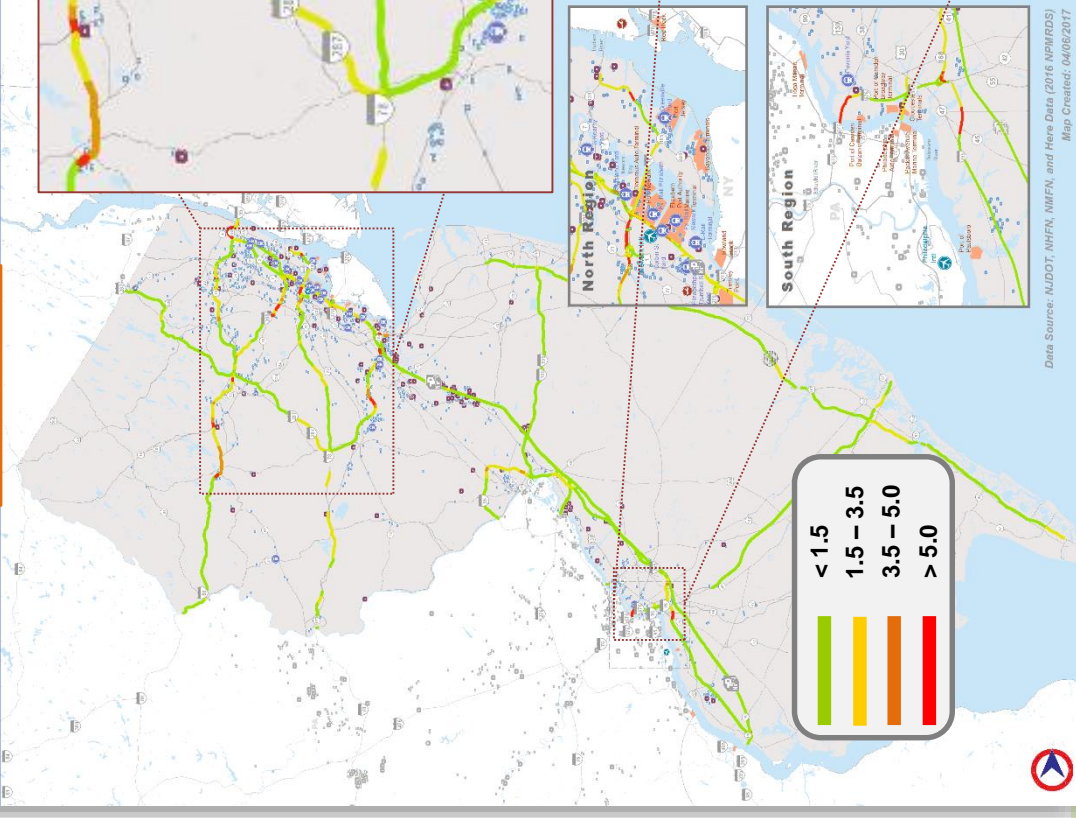
✓ 70% interstate mileage with an index below 1.5 (reliable)

### Northbound / Eastbound

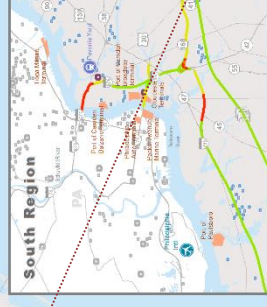
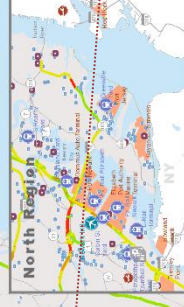
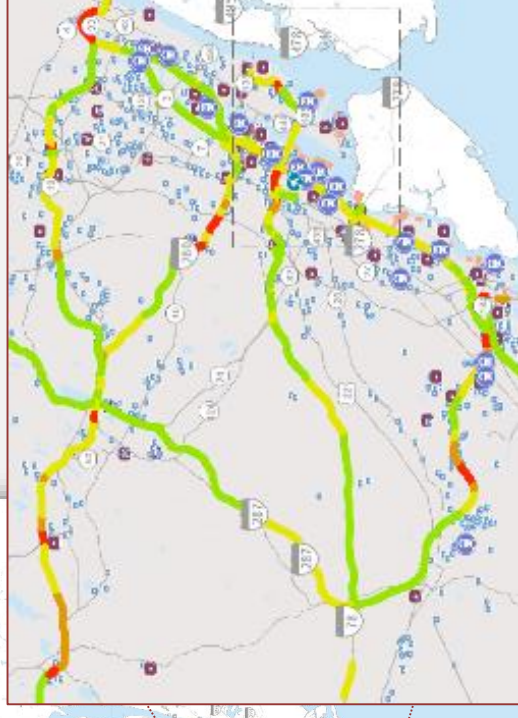
Planning Truck Travel Time Index	All Day 24 Hours	Morning Peak Period	Evening Peak Period
% Mileage (PTTTI: < 1.5)	77.7%	70.3%	73.0%
% Mileage (PTTTI: 1.5 - 3.5)	17.8%	22.8%	19.7%
% Mileage (PTTTI: 3.5 - 5.0)	2.3%	3.4%	3.9%
% Mileage (PTTTI: > 5.0)	2.2%	3.5%	3.4%

Note: Length based weighted average


**Planning Truck Travel Time Index - Interstates**  
 Morning Peak Period (Northbound / Eastbound)



**Travel Times**



**35% mileage within this region as an index above 1.5**

**32% mileage within this region has index above 1.5**

Data Source: NDDOT, NHFM, NMFN, and Here Data (2016 NPMRDS)  
Map Created: 04/08/2017



# OVERALL NON INTERSTATE (NHS) HIGHWAY SYSTEM

Includes US, State, County and Other NHS Roadways

Average Truck Travel Speeds below 35mph, congested

Only 12% of system provides for reliable travel times

Note: \*Length based weighted average

Performance Measures			
	All Day 24 Hours	Morning Peak Period	Evening Peak Period
% Uncongested Mileage	11.48%	11.49%	10.94%
Average Truck Speeds	33.85	33.86	32.73
*Planning Truck Travel Time Index	4.10	4.23	4.33
% Mileage (PTTTI: < 1.5)	11.4%	12.6%	11.2%
% Mileage (PTTTI: 1.5 - 3.5)	39.8%	40.4%	36.2%
% Mileage (PTTTI: 3.5 - 5.0)	21.3%	20.0%	22.3%
% Mileage (PTTTI: > 5.0)	27.5%	27.0%	30.3%
<b>*P10th Travel Time</b>	<b>2.69</b>	<b>-</b>	<b>-</b>
*P50th TT	3.61	-	-
*P90th TT	8.93	-	-
*P95th TT	16.10	-	-



# AVERAGE TRUCK TRAVEL SPEEDS NON INTERSTATES (NHS) – MORNING PEAK PERIOD

☒ Congestion (speeds < 45mph),  
only 12.7% of system provides for  
reliable travel times

☒ Average Truck Travel Speed  
33.73 mph, congested

☒ Uncongested Mileage 11.74%

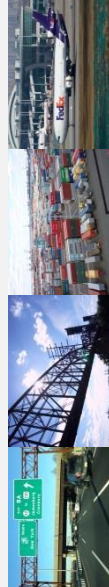
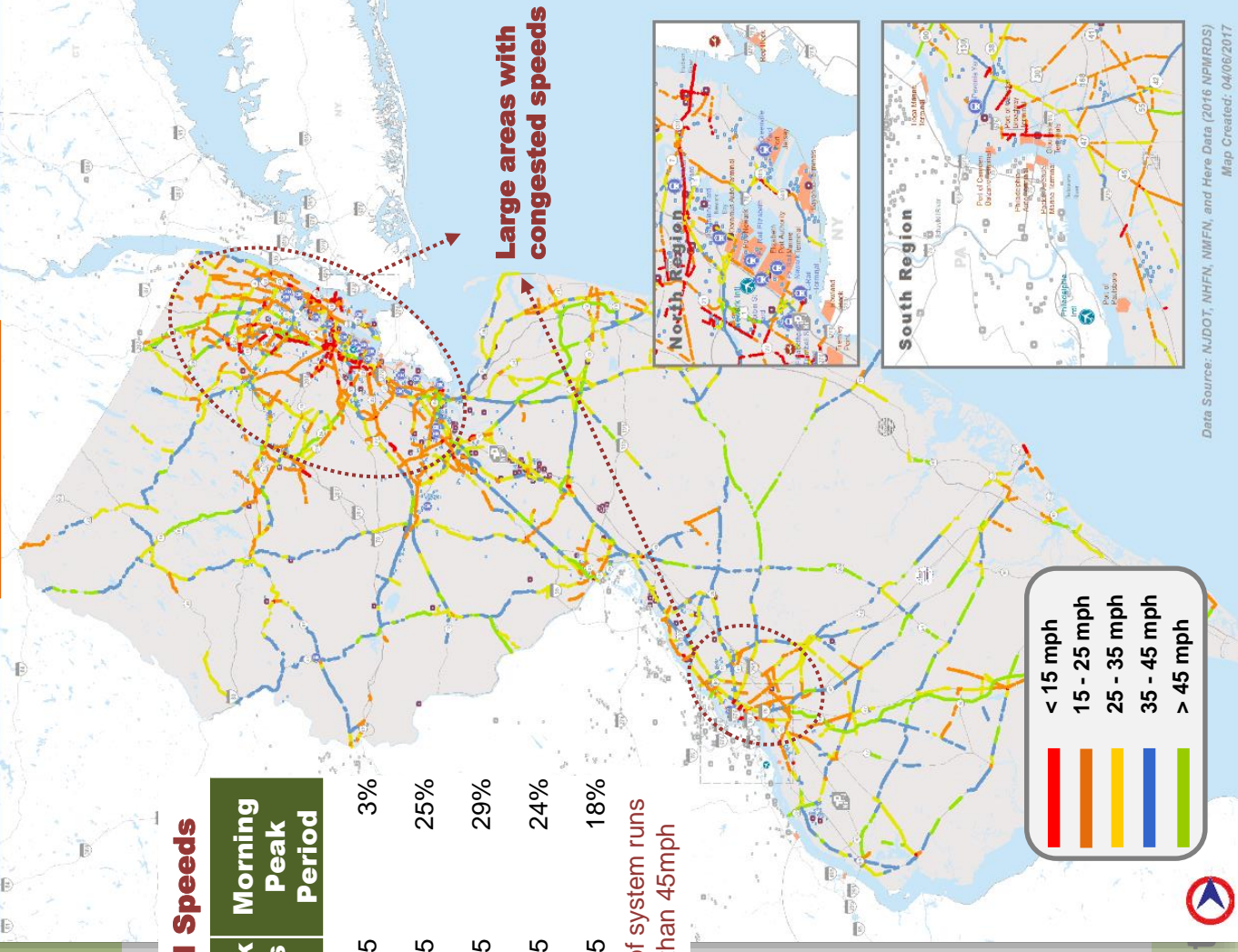
Note: Length based weighted average

## Truck Travel Speeds

Average Truck Travel Speeds (mph)	Morning Peak Period
% Mileage < 15	3%
% Mileage 15 - 25	25%
% Mileage 25 - 35	29%
% Mileage 35 - 45	24%
% Mileage > 45	18%

More than 80% of system runs at speeds lower than 45mph

Large areas with congested speeds



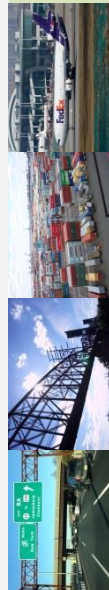
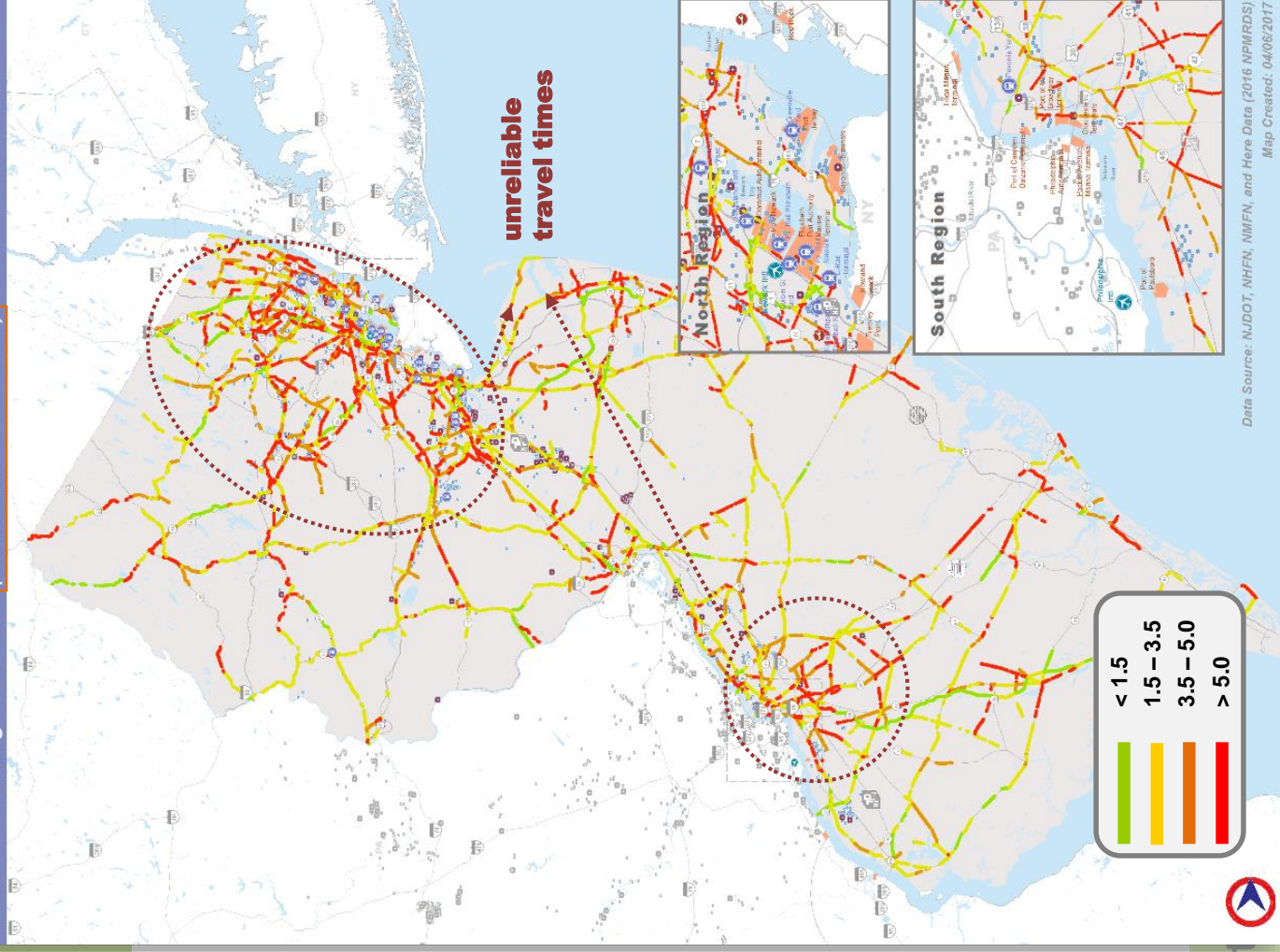
# PLANNING TRUCK TRAVEL TIME INDEX NON INTERSTATES (NHS) – MORNING PEAK PERIOD

☒ More 87% of system provides for unreliable travel times

## Northbound / Eastbound

Planning Truck Travel Time Index	All Day 24 Hours	Morning Peak Period	Evening Peak Period
% Mileage (PTTTI: < 1.5)	11.6%	12.7%	12.0%
% Mileage (PTTTI: 1.5 - 3.5)	37.9%	39.2%	35.4%
% Mileage (PTTTI: 3.5 - 5.0)	21.3%	20.1%	19.6%
% Mileage (PTTTI: > 5.0)	29.2%	28.1%	32.9%

Note: Length based weighted average





# UPCOMING TASKS

- **CEDs review – Critical industries**
- **Truck Crash data assessment**
- **Innovative Technologies research**
- **Workshop to review system(maritime/rail/highway) issue areas**
  - **Which problem areas already have projects on the TIP we should include for FAST funding**
  - **What problem areas need further study and development**
  - **What projects/studies should this plan include**
  - **Where should we prioritize for funding**



**THANK YOU**

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***Jenn Grenier***

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Grenier@pbworld.com  
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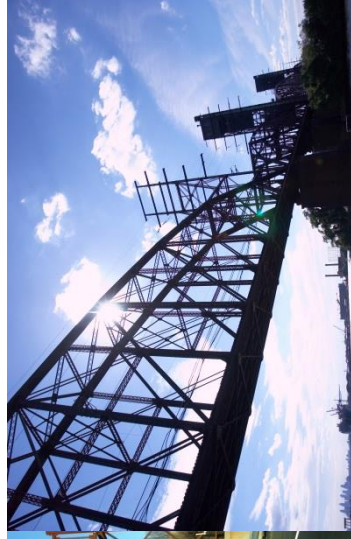


# FAC MEETING #4

2 JUNE 2017



# New Jersey Freight Advisory Committee



# TODAYS AGENDA

- **Introductions**
- **Update on Current Project Efforts**
- **Freight Commodity Bundles/Flows**
- **Freight Project Areas**
- **Brainstorming**
  - Highway Project Areas
  - Rail Project Areas
- **Summary of Project List/Review**
- **Next Steps/Next Meeting**



# CURRENT PROJECT EFFORTS

- **Industry Interviews (Counties, Rail, Commodities)**
- **Refinement of Commodity Analysis**
- **Development of Emerging Technologies, including:**
  - Warehouse Location and Automation
  - Retail Home Delivery
  - Connected and Autonomous Vehicles
  - Supply Chain Sourcing
- **Refinement of Maritime Trends**
- **Highway and Rail Project Areas**



# COMMODITY FLOW DATA UPDATE

- Last meeting focused on FAF 4.3
- Discussed today
  - US Census Trade
  - NJDOT 2007 Transearch (for supply chain mapping)
- Additional data sources to be referenced in the Plan
  - USACE Waterborne Commerce of the US
  - STB Public Rail Waybill
  - BTS T-100



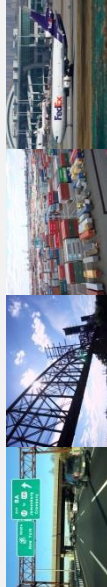


# AIR AND WATER TRADE OVERVIEW

## Air and Water Trade 2015

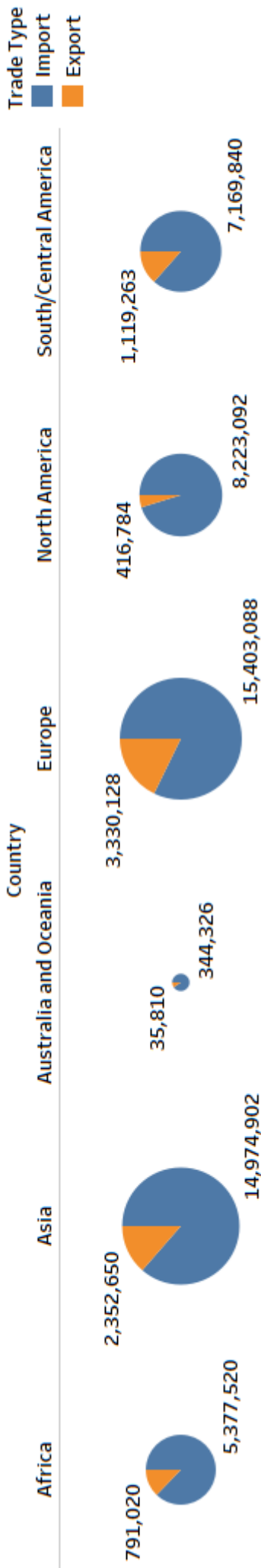
	Trade Type		Grand Total
	Import	Export	
Air Int'l SWT (t)	194,785	115,927	310,712
Vessel Int'l SWT (t)	51,297,984	7,929,726	59,227,710
TOTAL SWT (t)	51,492,769	8,045,653	59,538,422
Air Int'l Value (\$US)	28,698,180,499	12,918,090,969	41,616,271,468
Vessel Int'l Value (\$..)	80,759,355,792	10,746,202,302	91,505,558,094
TOTAL Value (\$US)	109,457,536,291	23,664,293,271	133,121,829,562

Source: USA Trade Online, Bureau of the Census

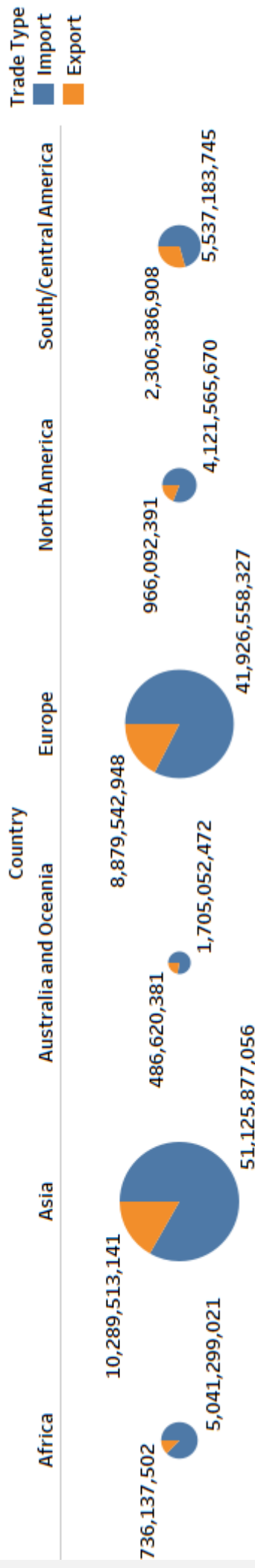


# AIR AND WATER TRADE BY PARTNER REGION

## Air and Water Trade Partner Tonnage 2015



## Air and Water Trade Partner Value (\$ US) 2015

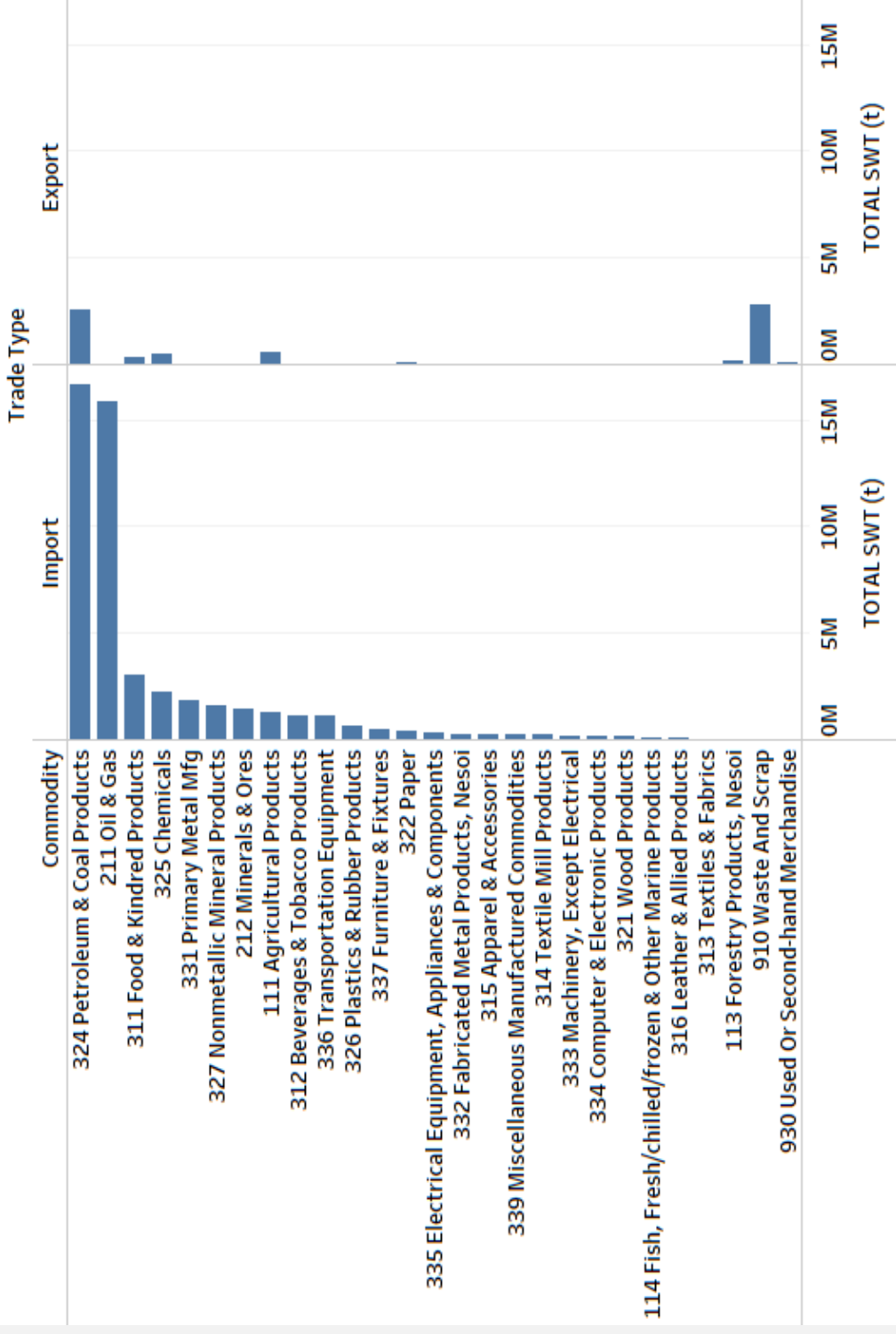


Source: USA Trade Online, Bureau of the Census



# AIR AND WATER TRADE TONNAGE BY COMMODITY

Air and Water Trade Tonnage 2015 by Commodity

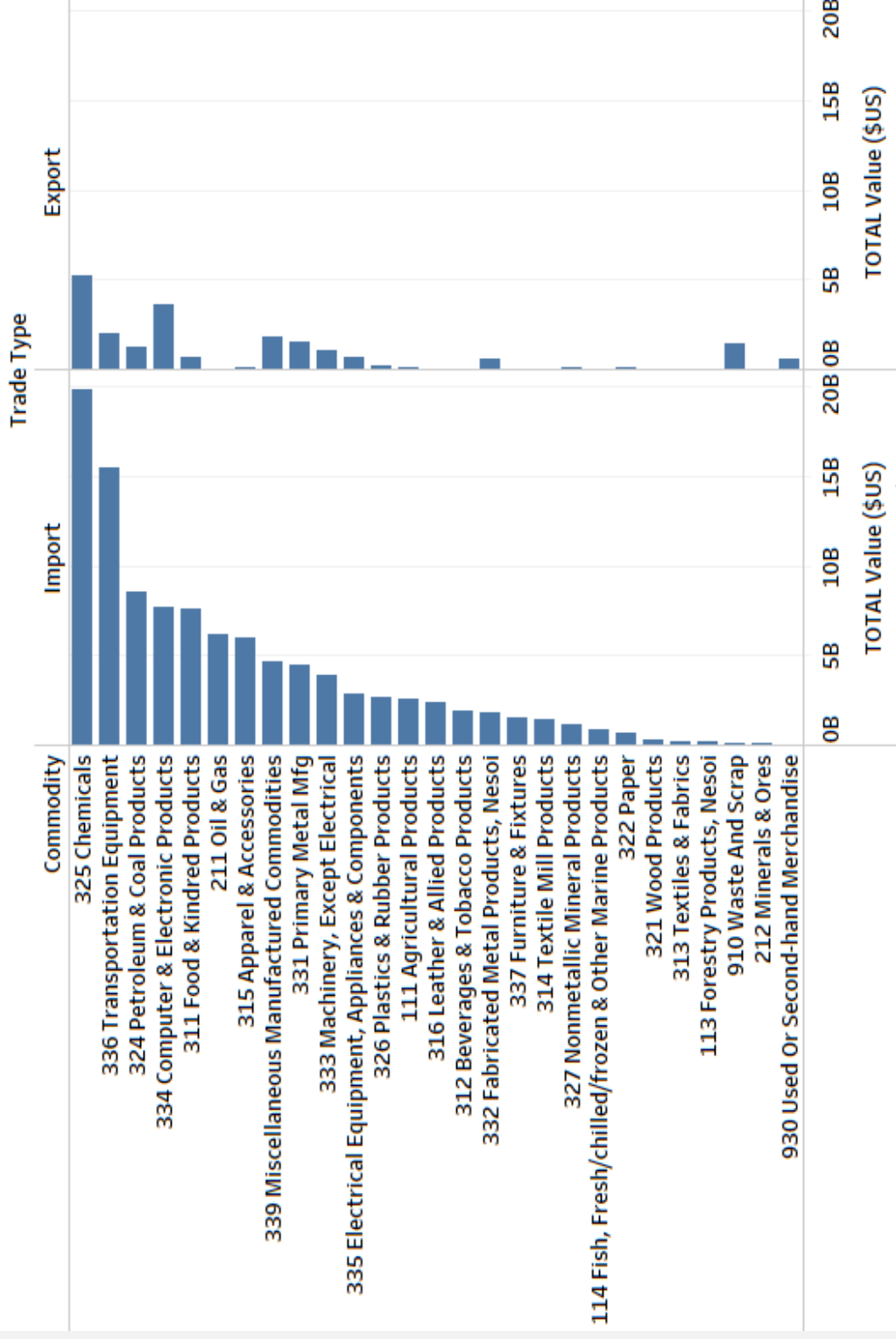


Source: USA Trade Online, Bureau of the Census

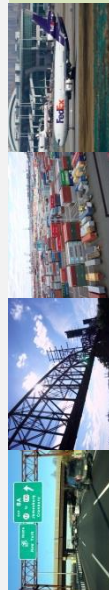


# AIR AND WATER TRADE VALUE BY COMMODITY

Air and Water Trade Value 2015 by Commodity

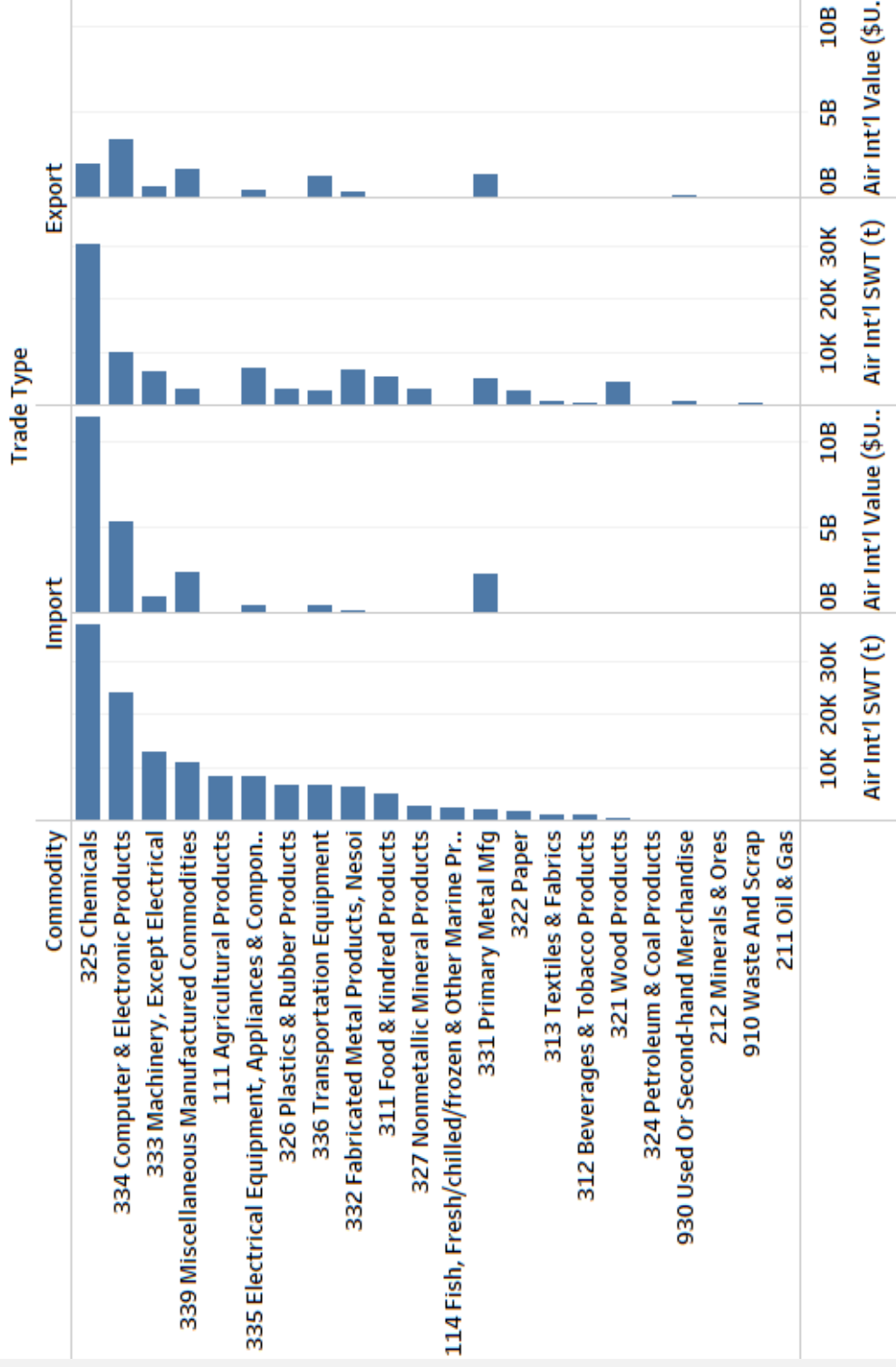


Source: USA Trade Online, Bureau of the Census



# AIR TRADE SUMMARY

## Air Trade 2015

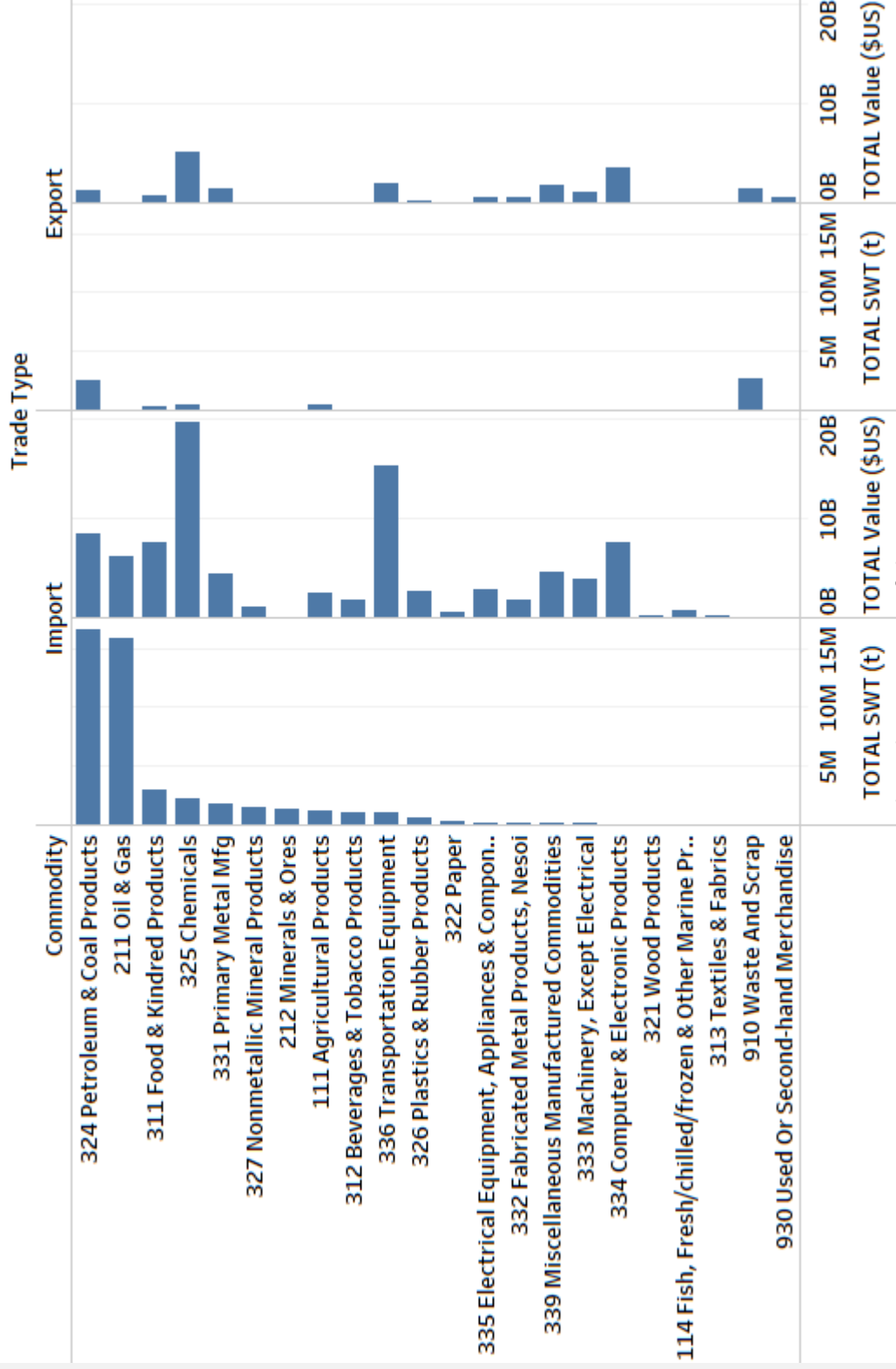


Source: USA Trade Online, Bureau of the Census

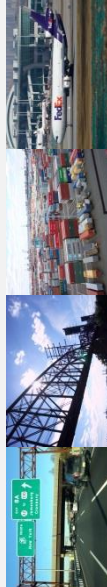


# WATER TRADE SUMMARY

## Water Trade 2015

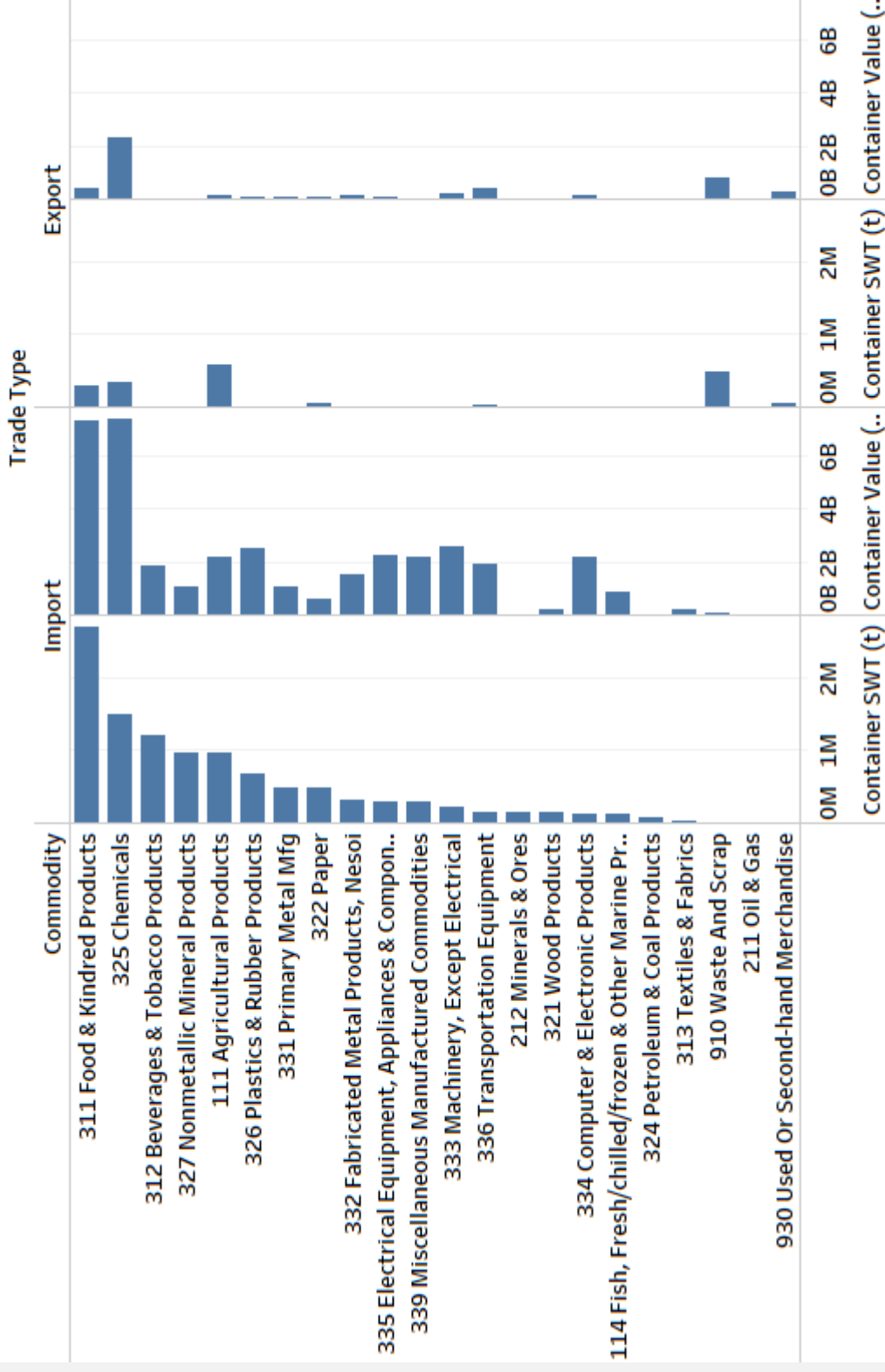


Source: USA Trade Online, Bureau of the Census



# CONTAINERIZED WATER TRADE SUMMARY

## Containerized Water Trade 2015



Source: USA Trade Online, Bureau of the Census



# RELATIONSHIP BETWEEN ECONOMY AND COMMODITY FLOWS

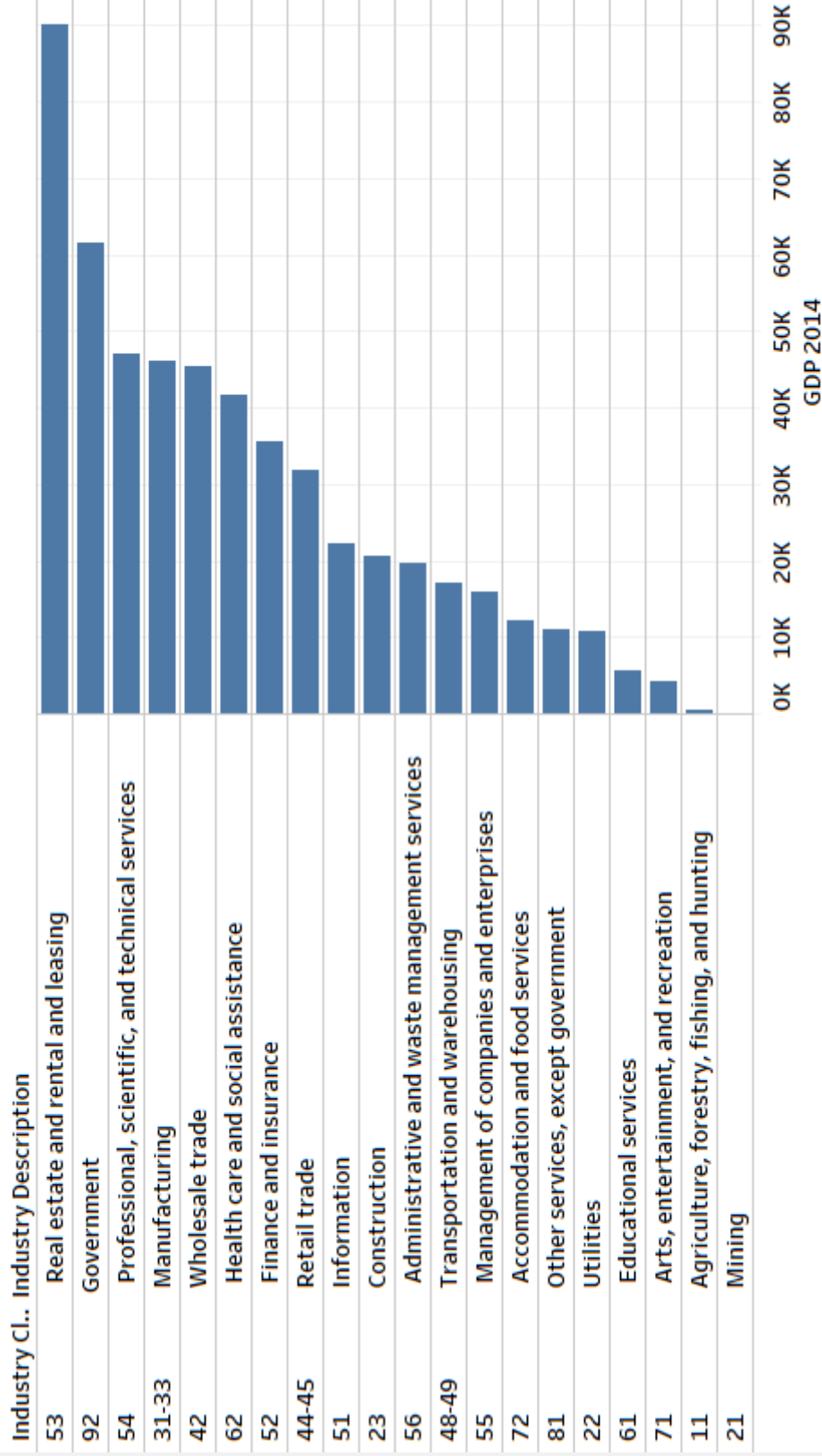
- **Freight is the “economy in motion”**
- **Circular dependency**
  - Economic activity generates freight movement
  - Supply chain performance (reliability, cost, time, etc.) impacts location and extent of economic activity
- **Freight Plan addresses**
  - Underlying economic drivers
  - Commodity flows and supply chains
  - Investments to achieve both transportation and economic goals



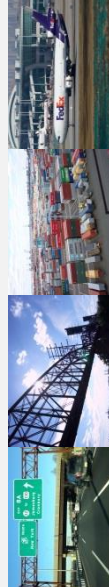


# NEW JERSEY'S ECONOMY AT A GLANCE

**GDP (\$M) 2014 by Industry**

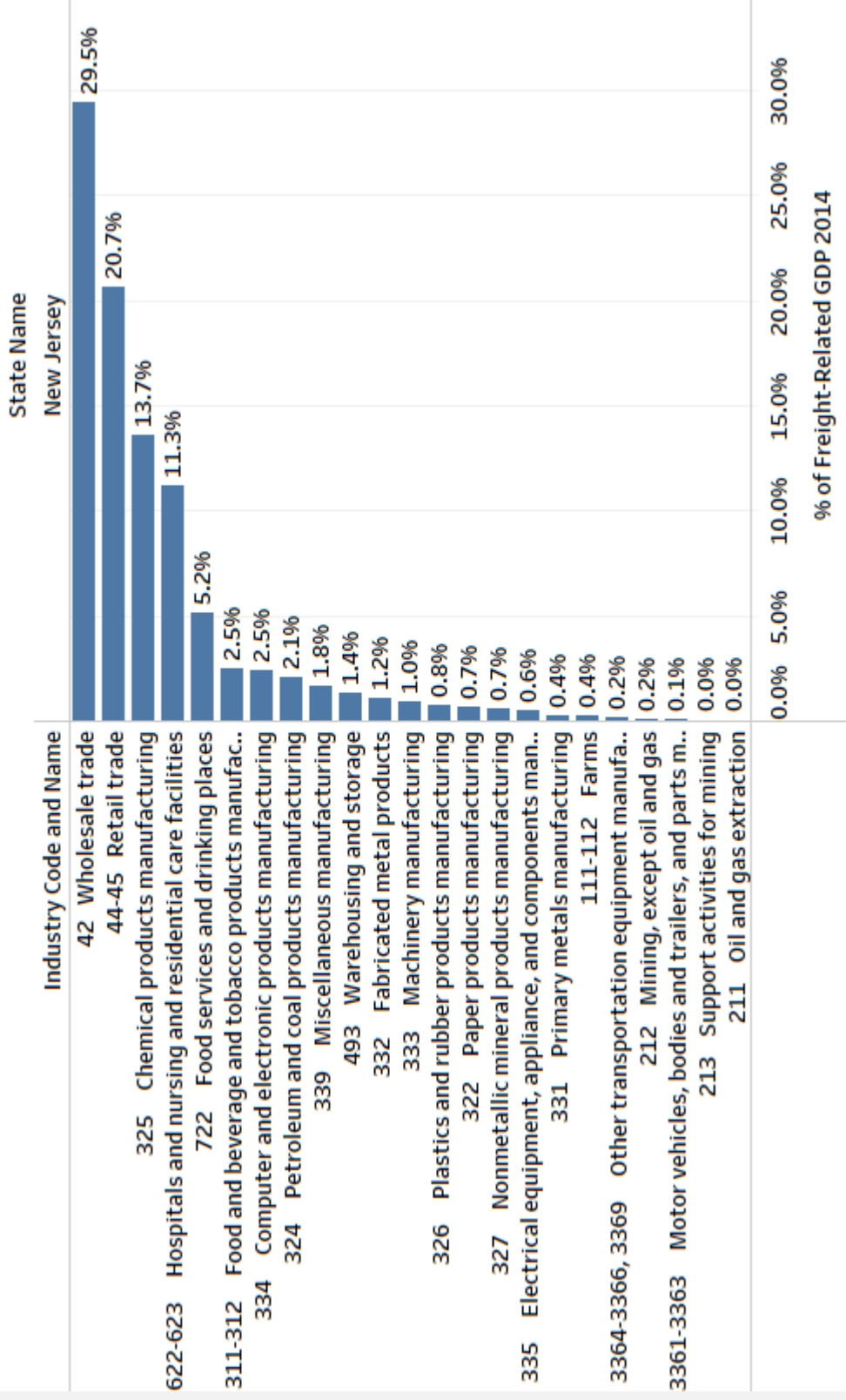


Source: Analysis of US Department of Commerce data



# NEW JERSEY'S MOST FREIGHT-DEPENDENT INDUSTRIES

GDP (\$M) by State for Selected Target Groups

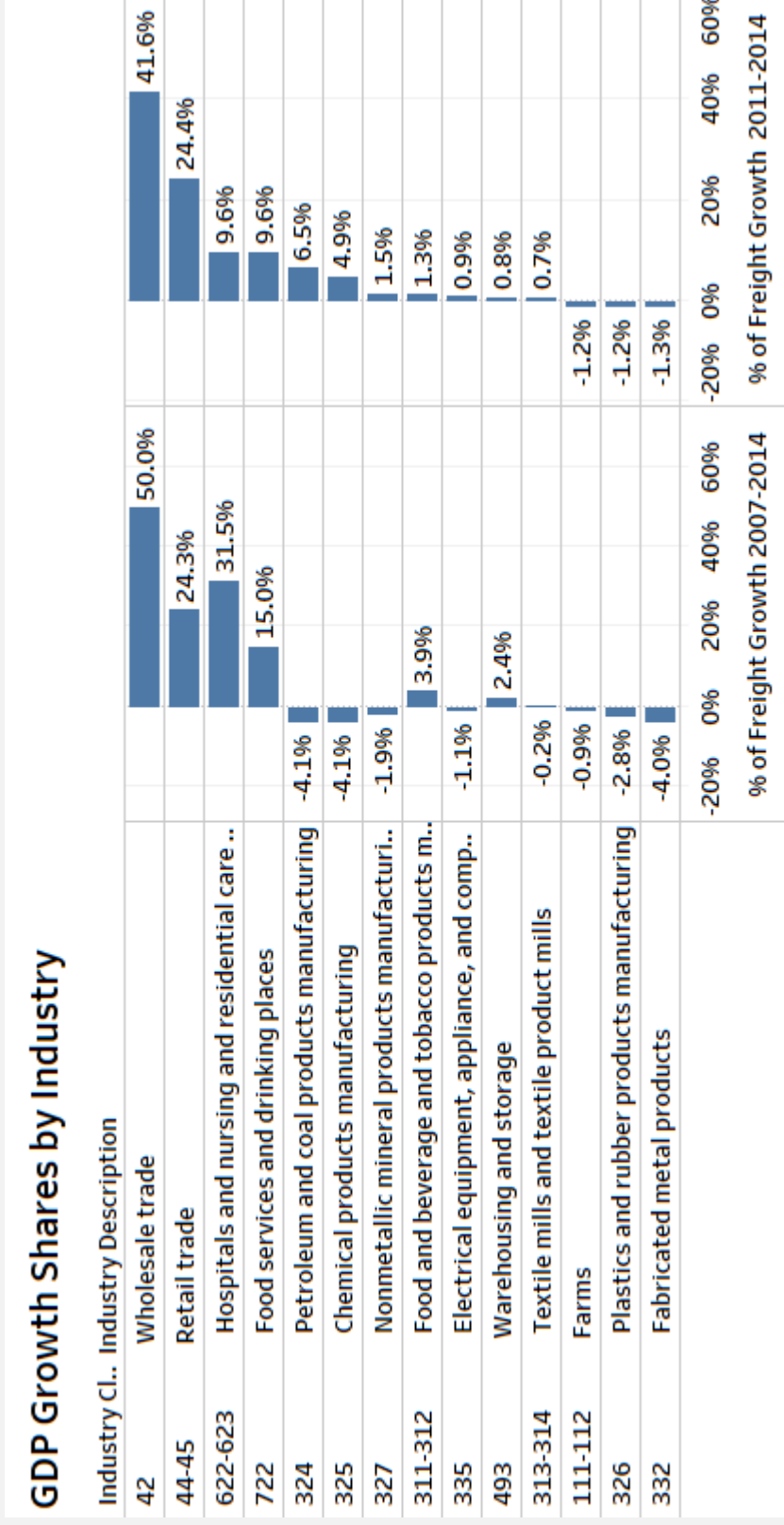


- “Freight-Dependent” industries listed here represent over 28% of New Jersey’s total GDP

Source: Analysis of US Department of Commerce data



# NEW JERSEY'S GROWTH IN FREIGHT-DEPENDENT INDUSTRIES



- Wholesale and retail trade account for the majority of New Jersey's GDP growth related to freight-dependent industries
- (Shares between -0.5% and +0.5% not shown)

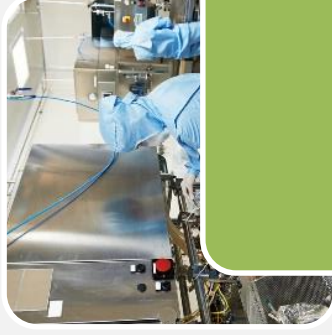
Source: Analysis of US Department of Commerce data



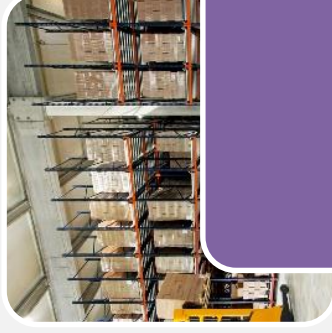
# TYPICAL SUPPLY CHAIN STEPS



Raw Materials  
Extraction/  
Production



Manufacturing



Distribution



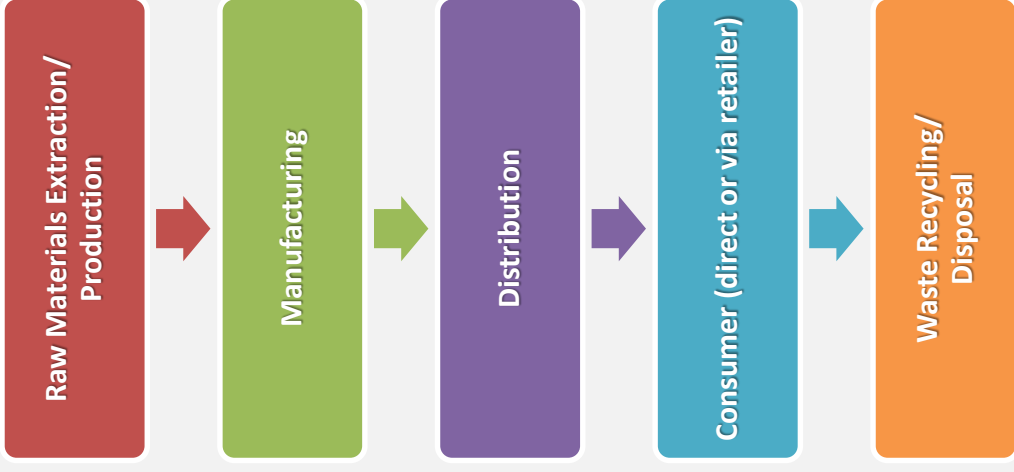
Consumer  
(direct or via  
retailer)



Waste  
Recycling/  
Disposal



# SUPPLY CHAIN GROUPINGS



- **Consumer Durable and Nondurable Goods**
  - Furniture, electronics, transportation equipment, machinery
  - Food, textiles/apparel, paper/printed
- **Construction Materials**
  - Nonmetallic minerals, clay/concrete/glass/stone
- **Energy and Chemical Products**
  - Energy products, pharmaceuticals, chemicals
- **Distribution Traffic**
  - Secondary freight, parcels, drayage
- **Waste**
  - Waste/scrap materials, municipal solid waste

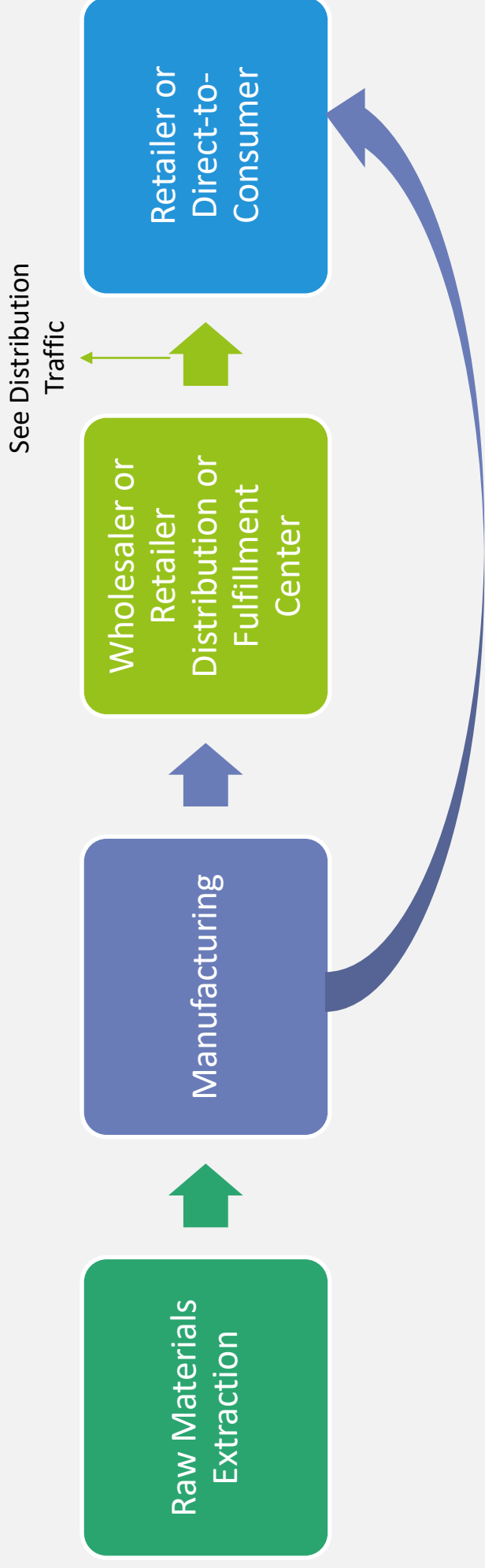


# CONSUMER DURABLE AND NON-DURABLE GOODS

- **Electronics and Machinery**
- **Furniture and Fixtures**
- **Food**
- **Textiles/apparel**
- **Paper/printed**



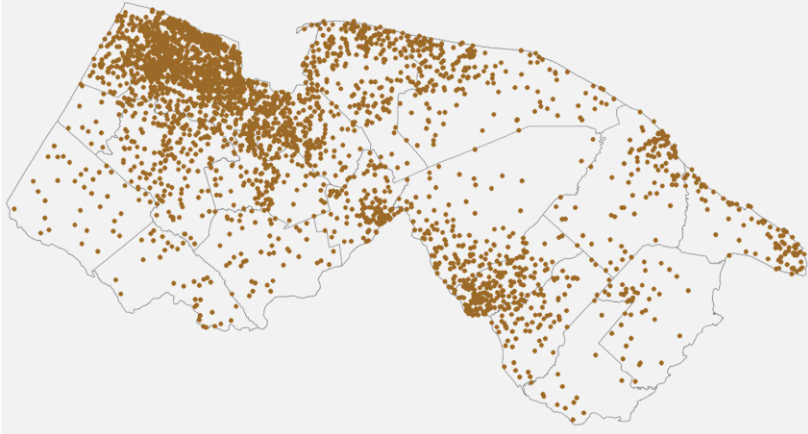
# DURABLE AND NON-DURABLE CONSUMER GOODS SUPPLY CHAIN



# NON-DURABLE GOODS INDUSTRY SECTORS

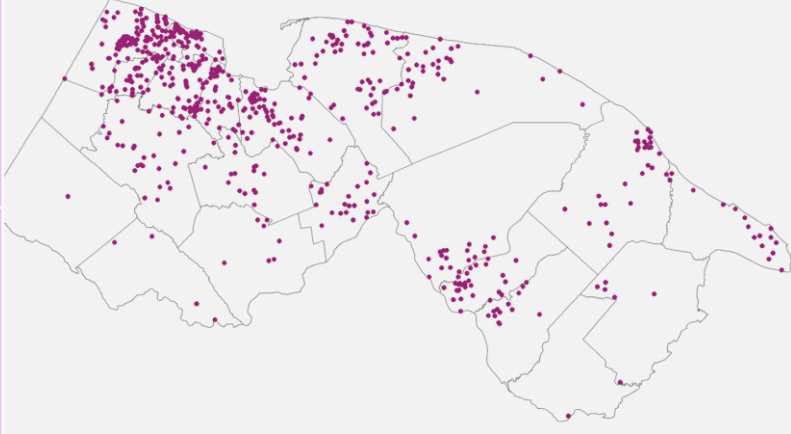
**Food-Related Industries**

- Agriculture
- Food/Beverage Manufacturing
- Food, Beverage Retail
- Restaurants/Hospitality



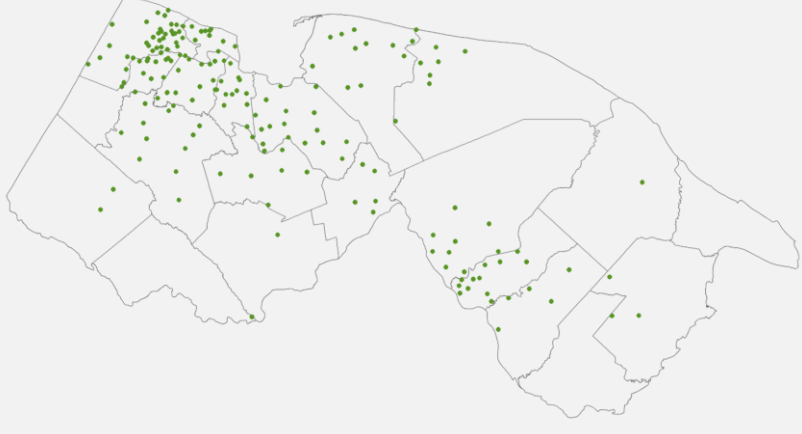
**Textiles/Apparel-Related Industries**

- Apparel, Textiles, Leather Manufacturing
- Fabric or Rug Mills
- Clothing Wholesale, Retail Trades



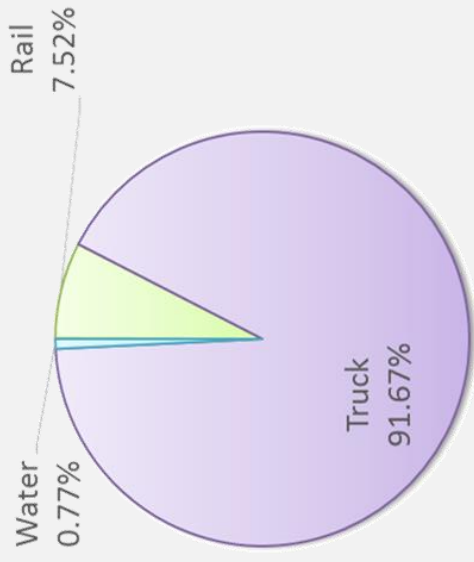
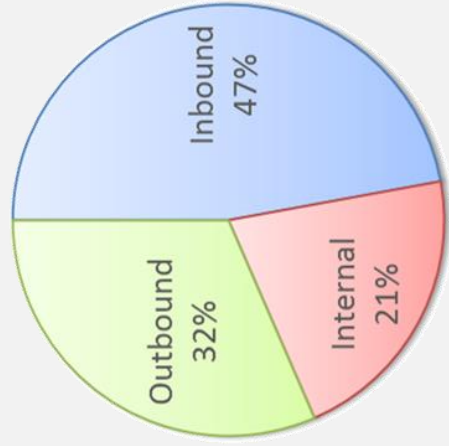
**Paper/Printed-Related Industries**

- Book Wholesale, Retail Trades
- Stationery
- Printing
- Labeling and Shipping
- Office Supply



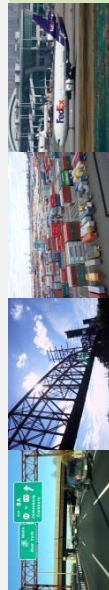
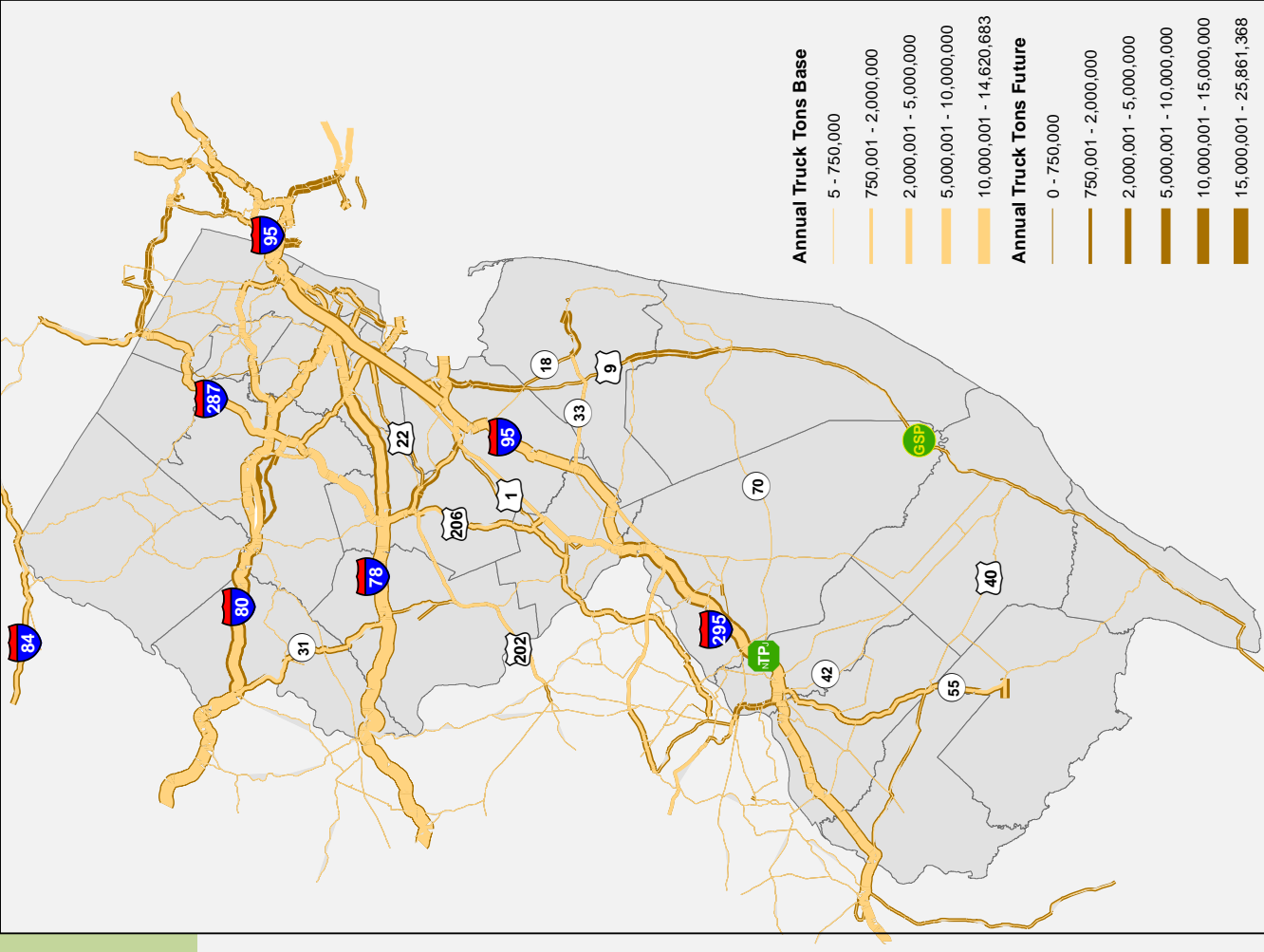


# FOOD FLOWS

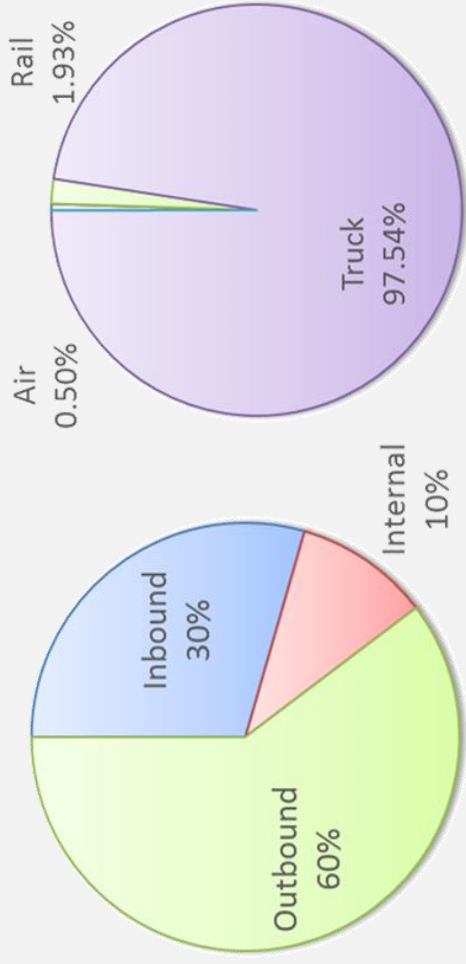


2015: 48 million tons

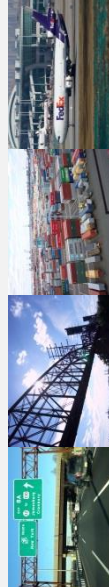
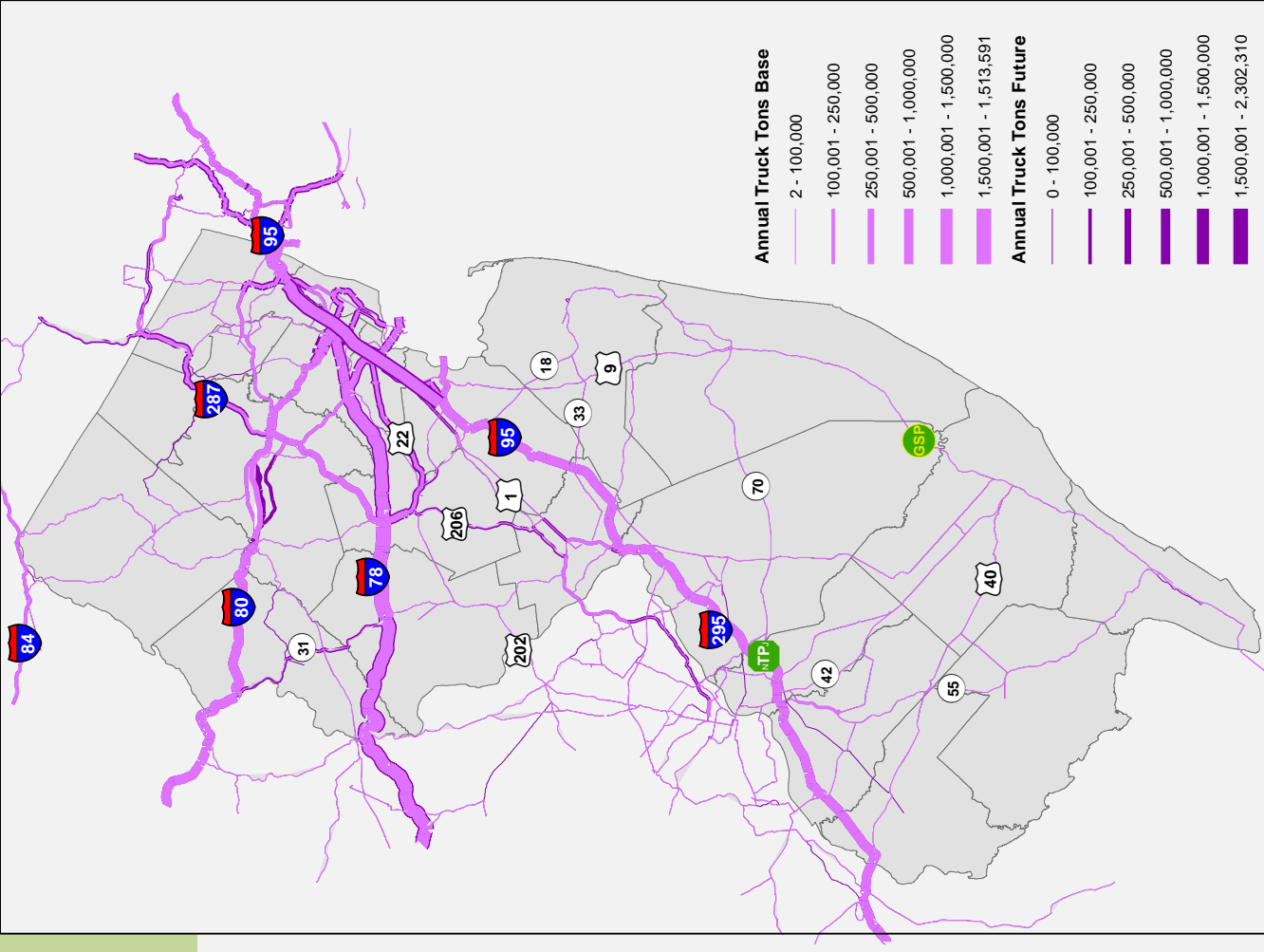
2045: 74 million tons (55% growth)



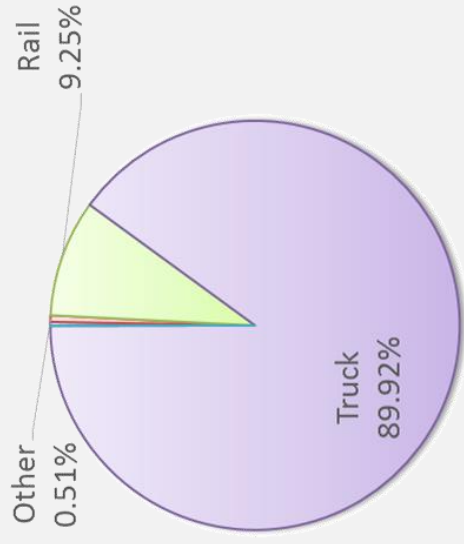
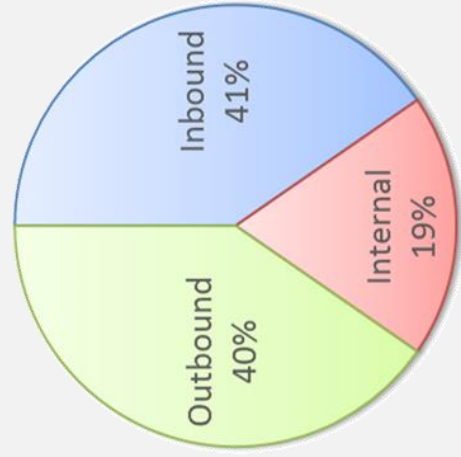
# TEXTILES AND APPAREL FLOWS



2015: 3.3 million tons  
 2045: 4.7 million tons (43% growth)

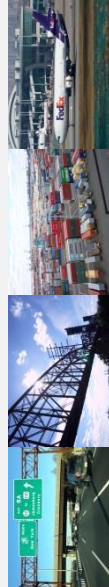
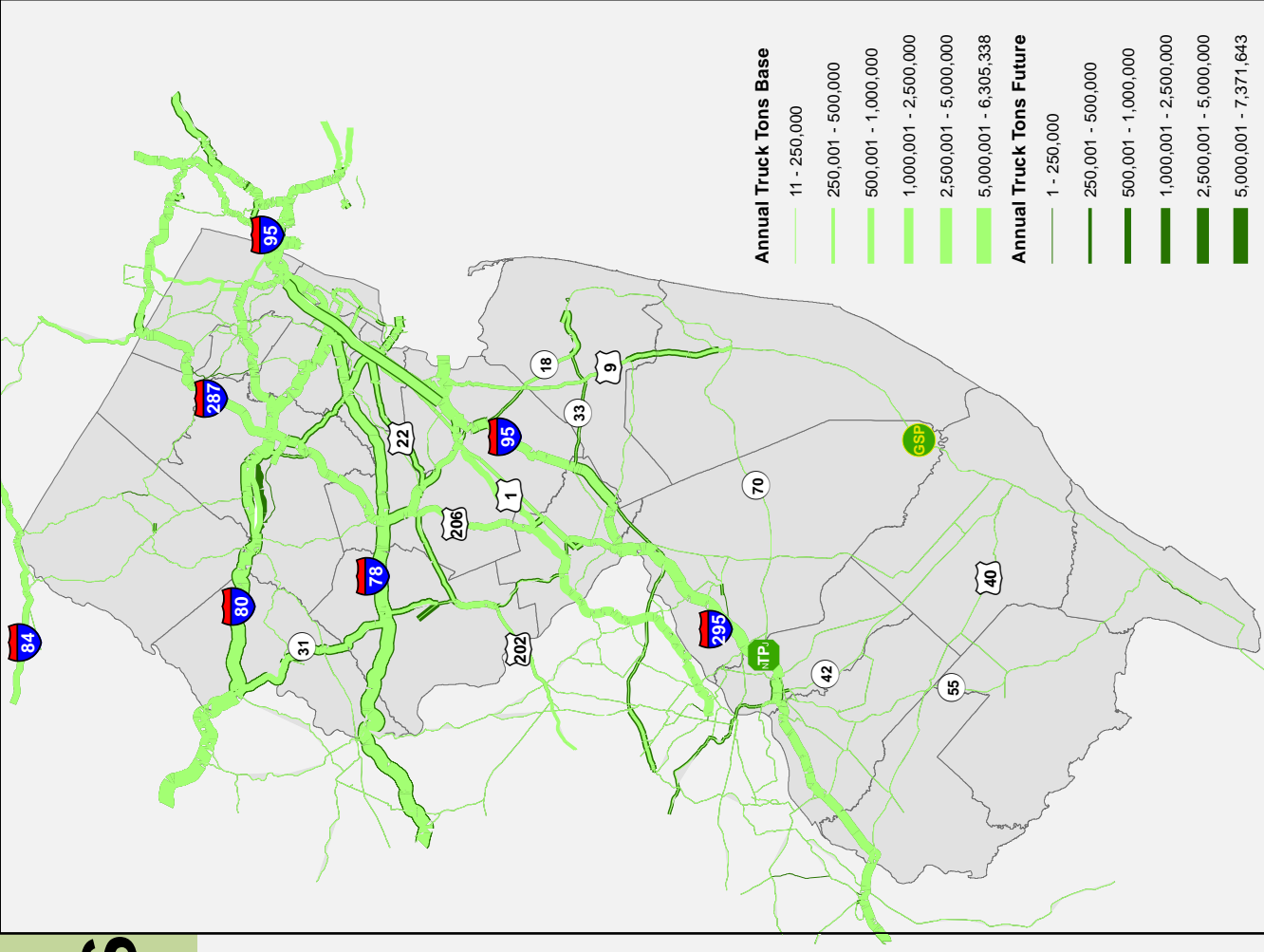


# PAPER AND PRINTED MATERIAL FLOWS

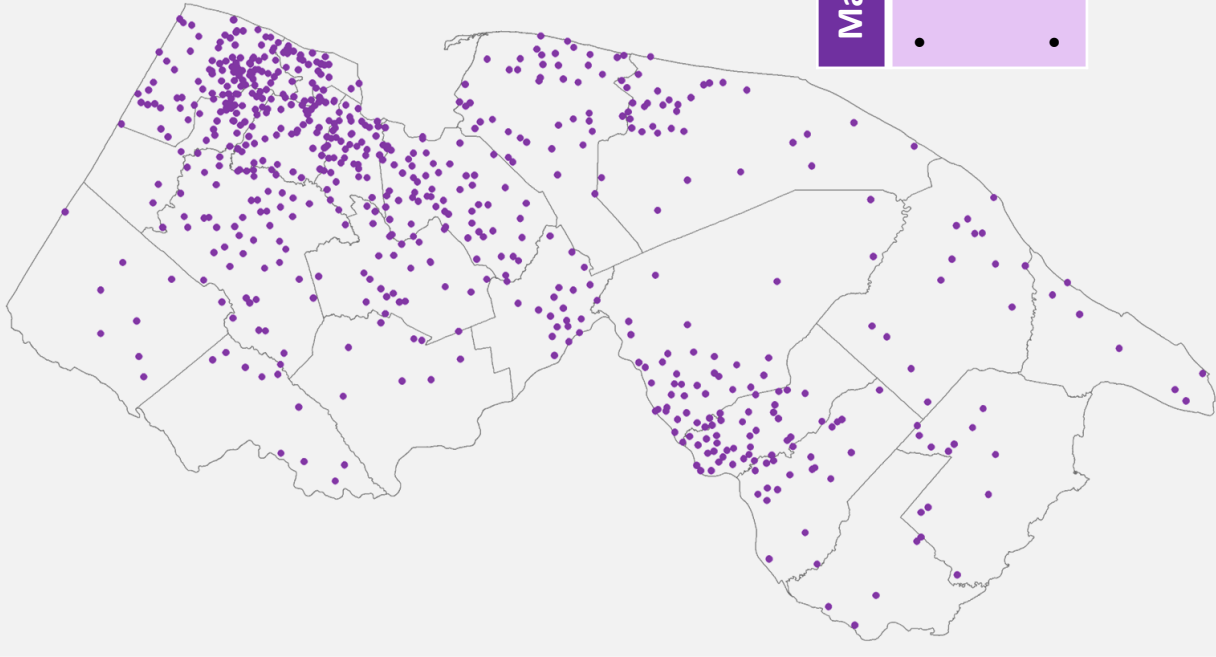


2015: 14 million tons

2045: 19 million tons (41% growth)



# DURABLE GOODS INDUSTRY SECTORS

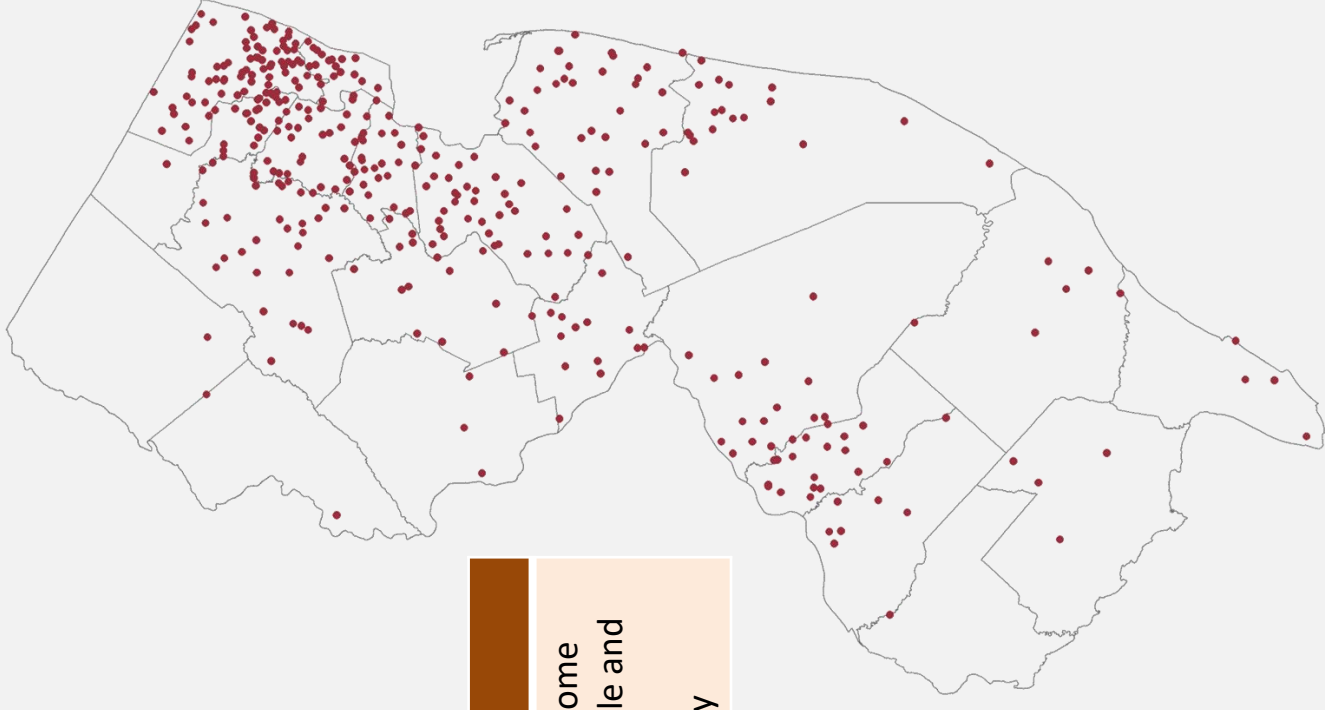


## Furniture and Fixtures Related Industries

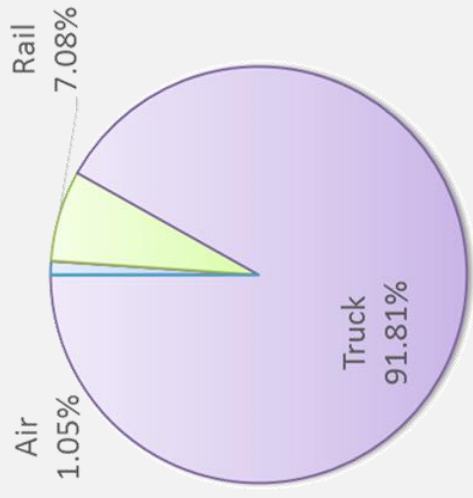
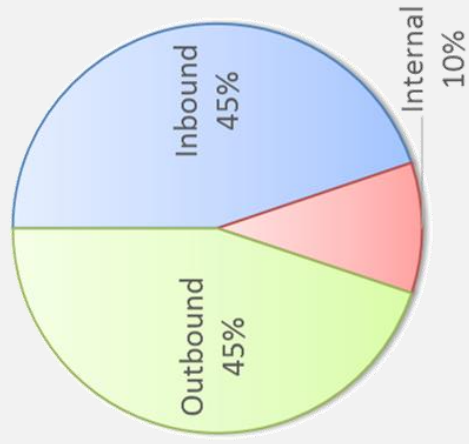
- Furniture and Home Goods Manufacturing
- Recreational Goods
- Furniture and Home Goods Wholesale and Retail Trades
- Industrial Supply

## Machinery/Electronics/Transp. Equip.-Related Industries

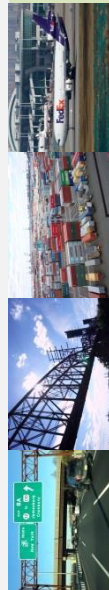
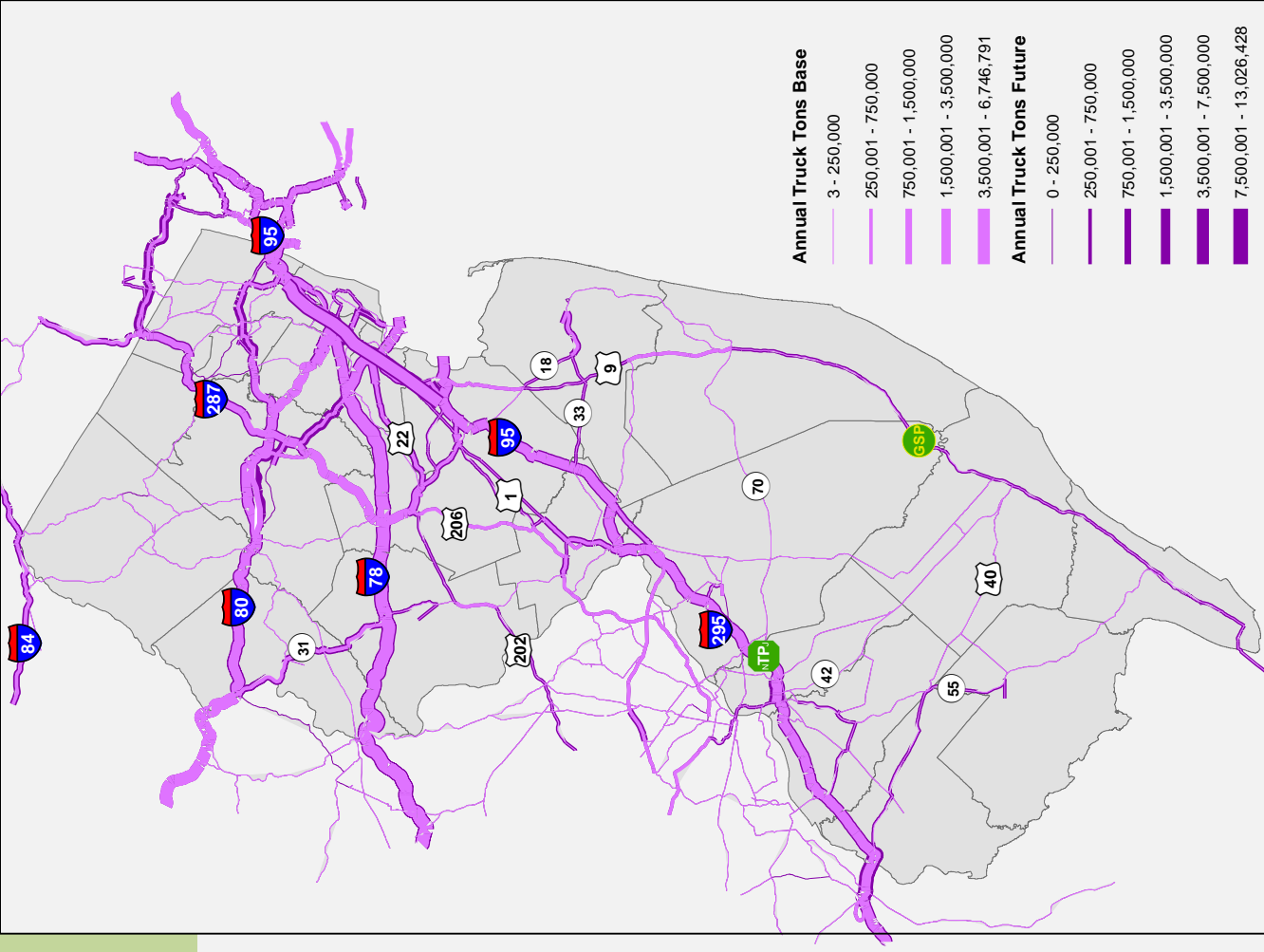
- Transportation Equipment Manufacturing
- Automobile Sales
- Machinery Manufacturing
- Machinery/Equipment Rental and Leasing



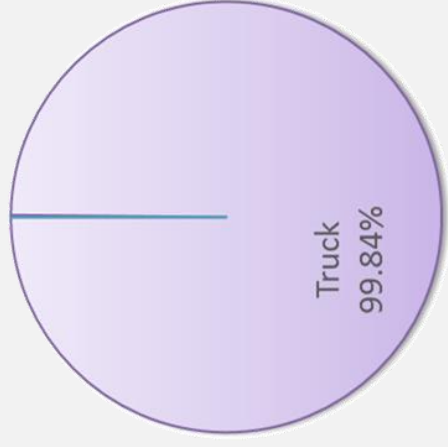
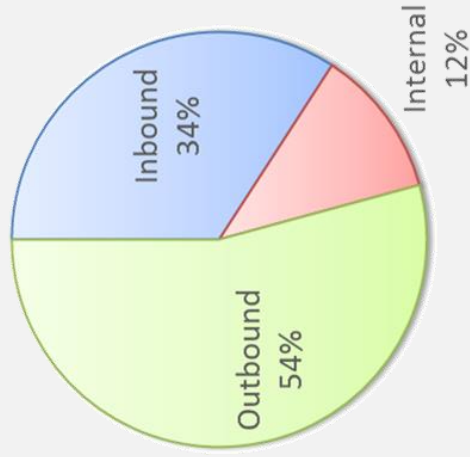
# MACHINERY, ELECTRONICS, & TRANSPORTATION EQUIPMENT FLOWS



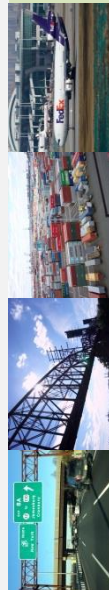
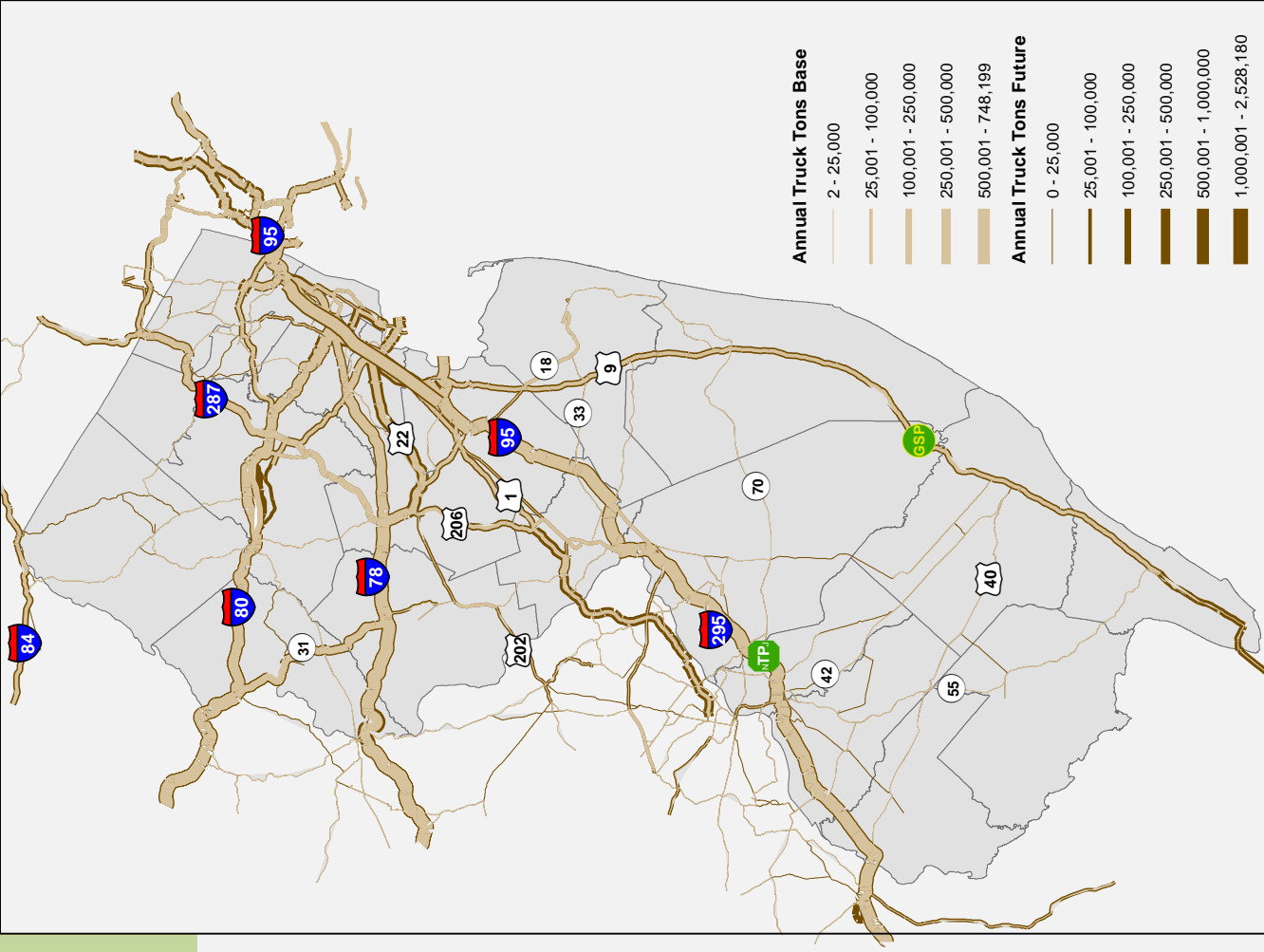
2015: 15 million tons  
 2045: 21 million tons (38% growth)



# FURNITURE AND FIXTURES FLOWS



2015: 2.2 million tons  
 2045: 2.9 million tons (34% growth)

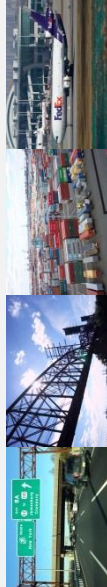
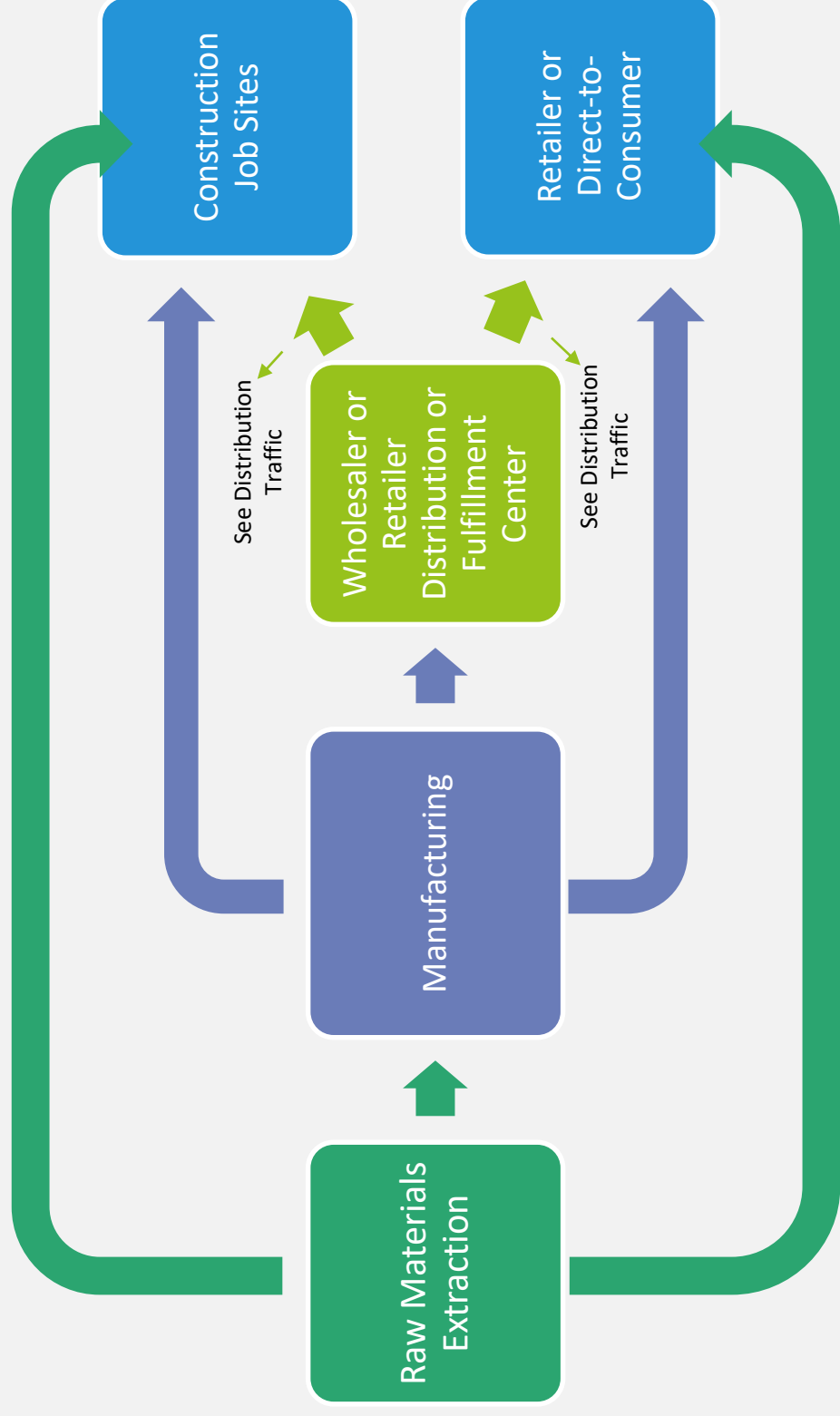


# CONSTRUCTION MATERIALS

- **Nonmetallic minerals**
- **Clay/concrete/glass/stone**

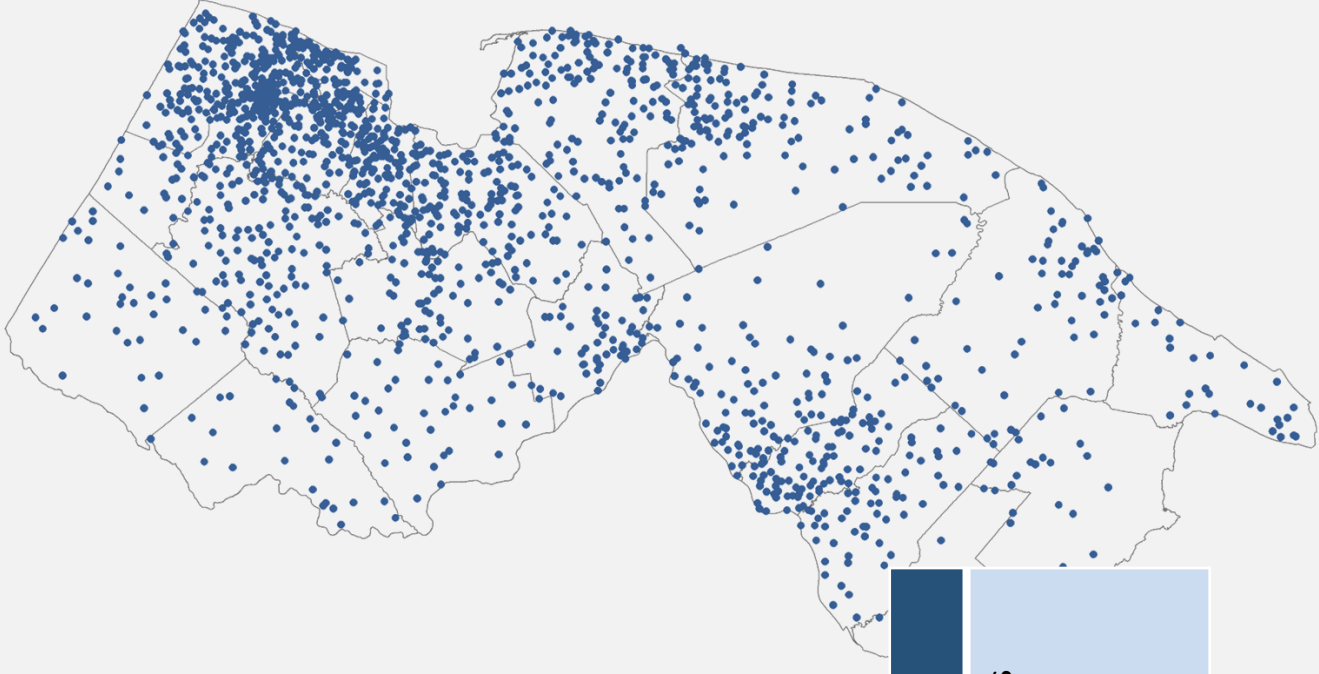


# CONSTRUCTION MATERIALS SUPPLY CHAIN





# CONSTRUCTION INDUSTRY SECTORS

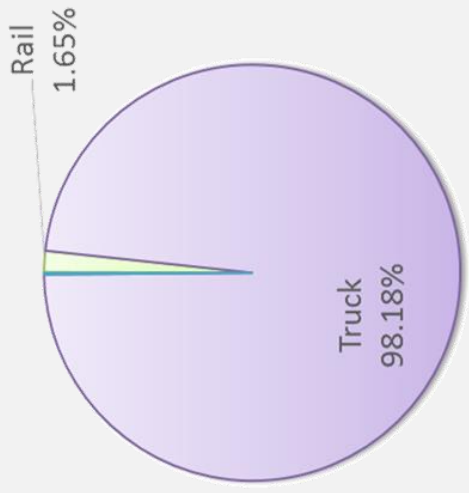
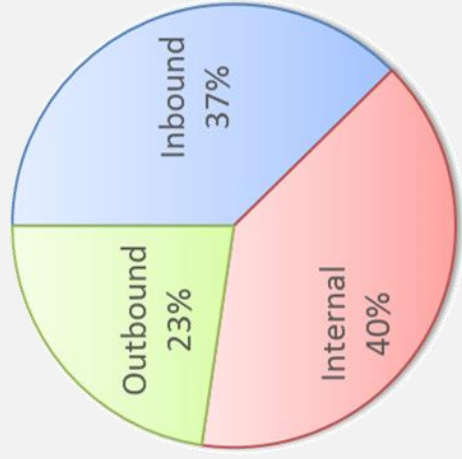


## Construction Related Industries

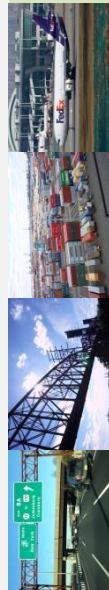
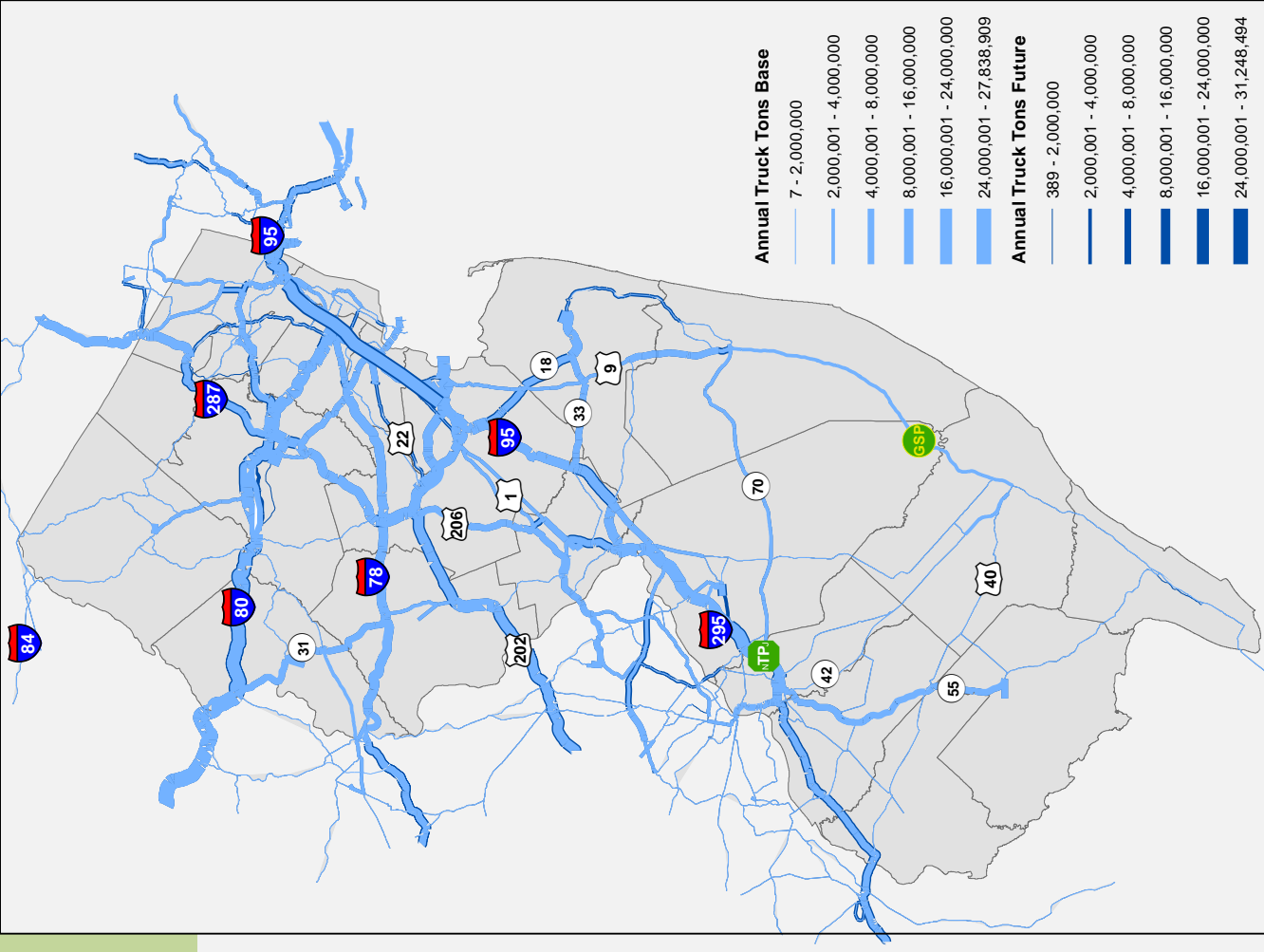
- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>• Building and Home Construction</li><li>• Mining</li><li>• Concrete, Glass, Iron/Steel, Lumber Production</li></ul> | <ul style="list-style-type: none"><li>• Construction Contractors</li><li>• Hardware/Construction Materials Wholesale and Retail Trades</li></ul> |
|--|--|



# CONSTRUCTION MATERIAL FLOWS



2015: 132 million tons  
 2045: 181 million tons (37% growth)

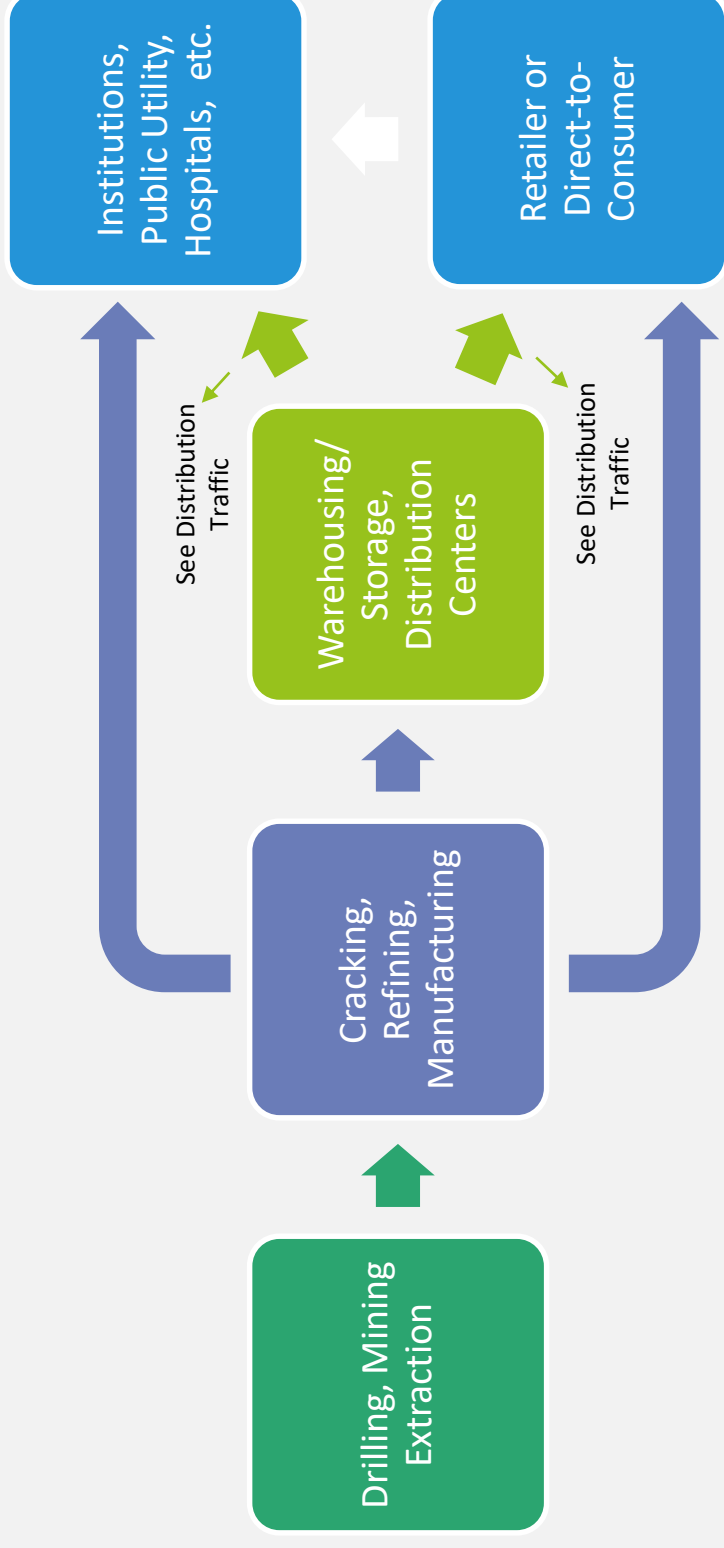


# ENERGY AND CHEMICAL PRODUCTS

- Energy Products
- Pharmaceuticals
- Chemicals



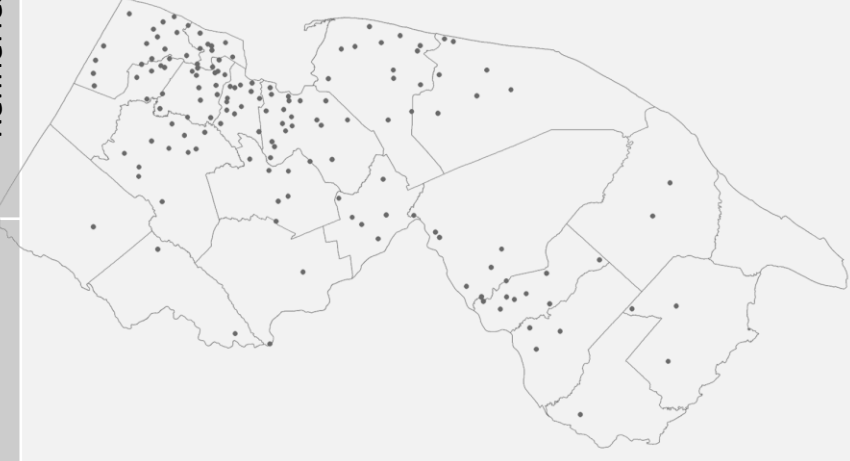
# ENERGY AND CHEMICAL PRODUCTS SUPPLY CHAIN



# ENERGY AND CHEMICALS INDUSTRY SECTORS

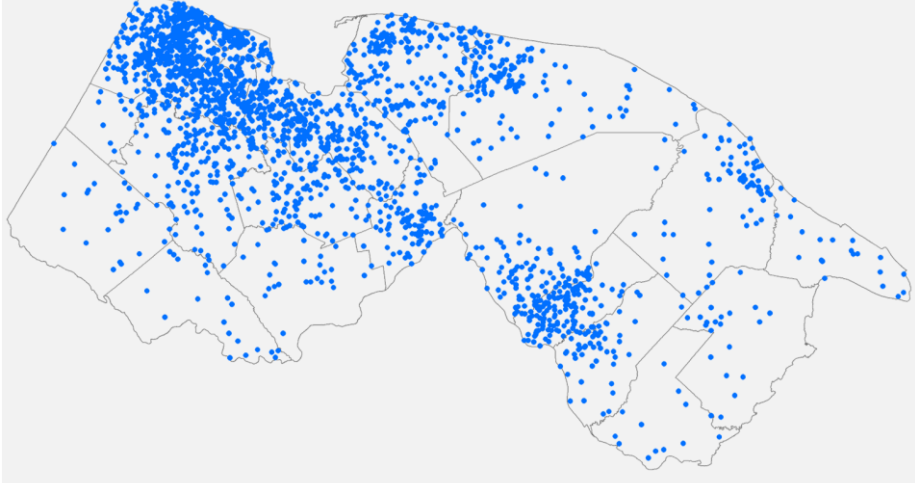
## Energy Related Industries

- Natural Gas, Petroleum, etc. Distribution
- Petrochemical Manufacturing
- Petroleum Refineries



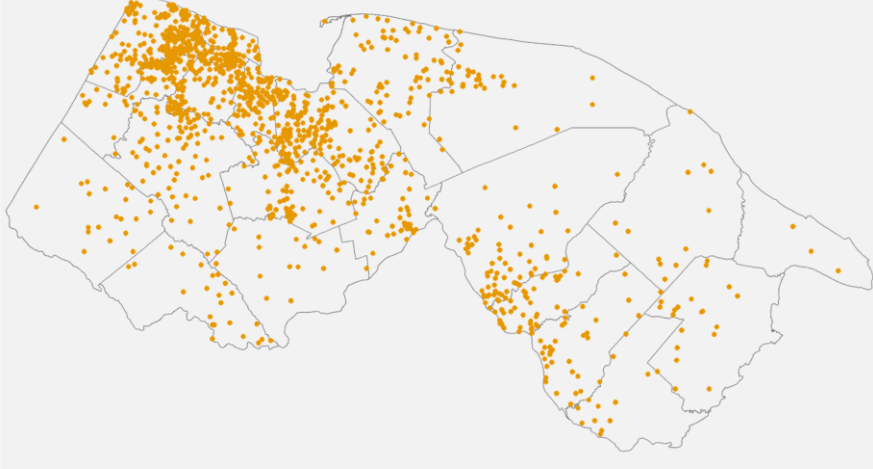
## Pharmaceutical Related Industries

- Pharmaceutical Manufacturing
- Health Care

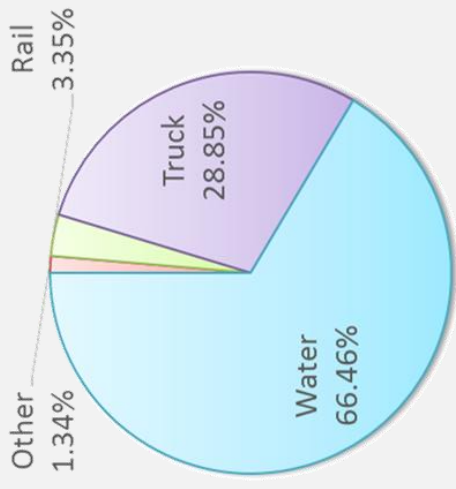
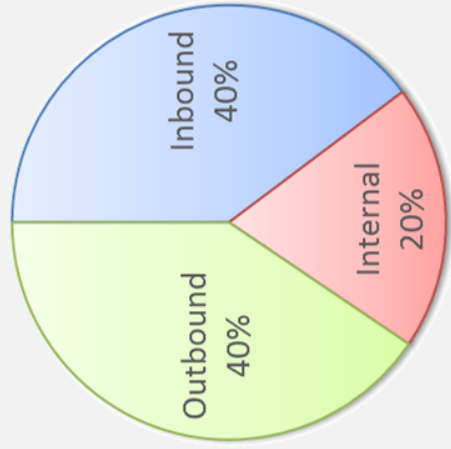


## Chemicals Related Industries

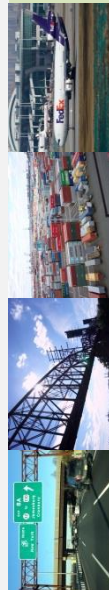
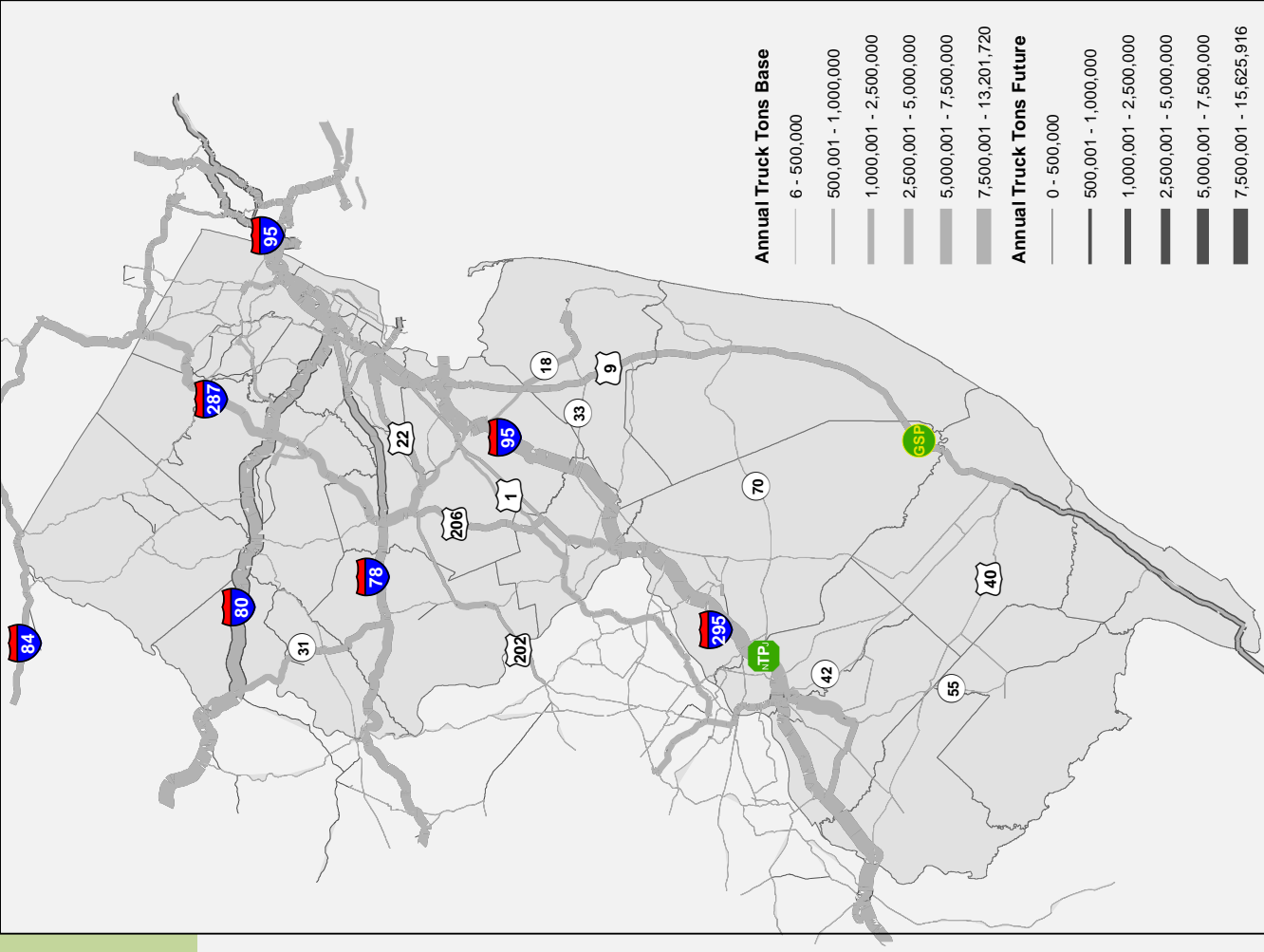
- Manufacturing
- Paint, Varnish Wholesale and Retail Trades



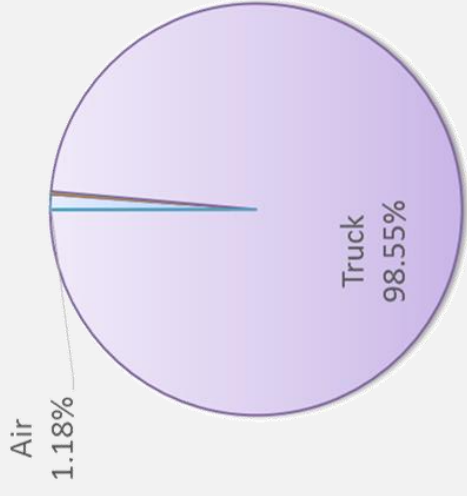
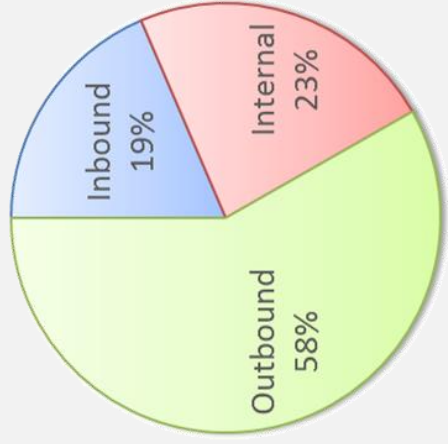
# ENERGY FLOWS



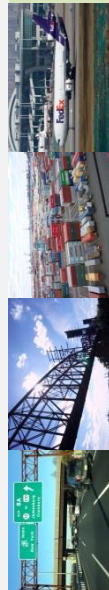
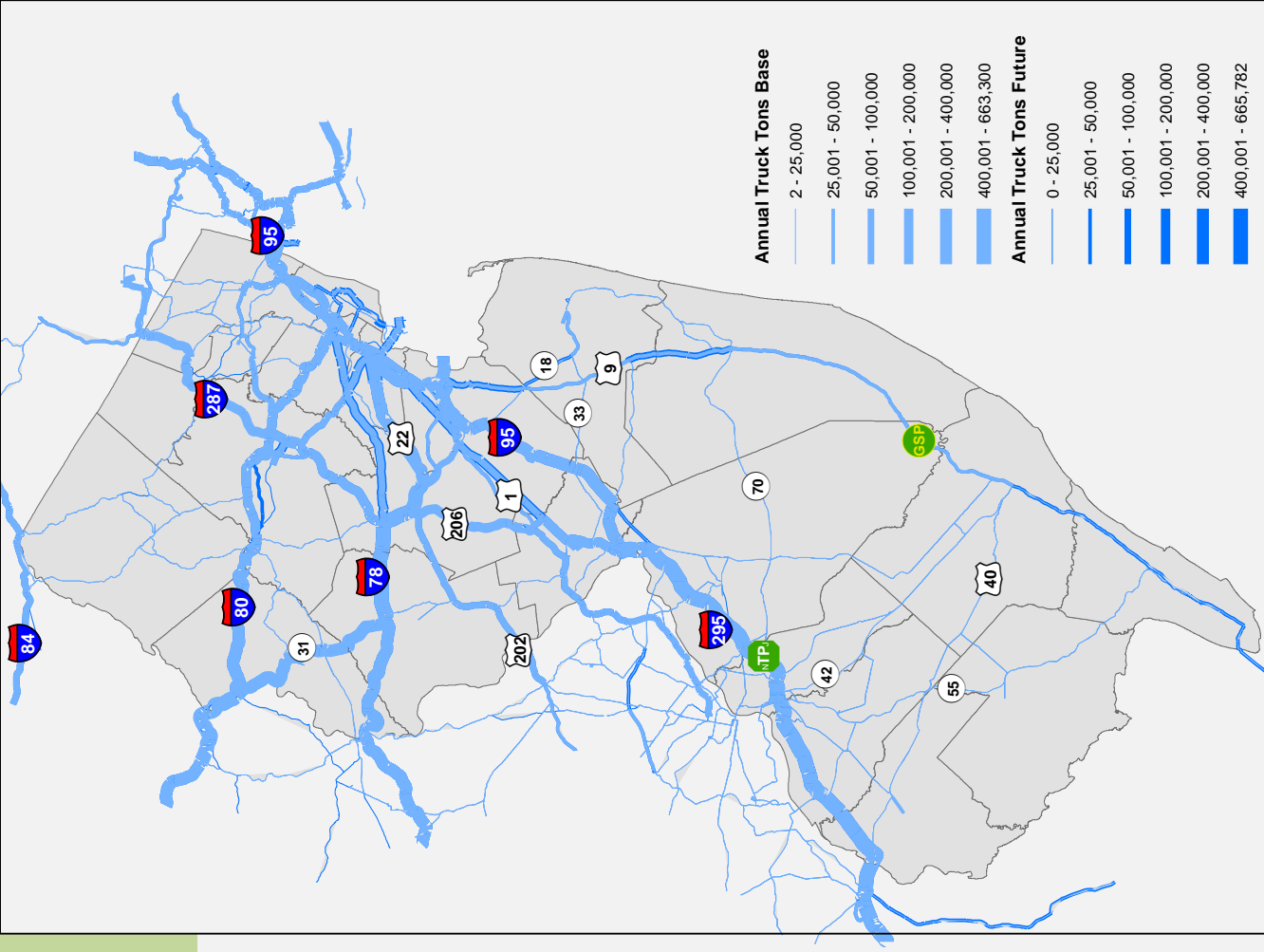
2015: 91 million tons  
 2045: 127 million tons (40% growth)



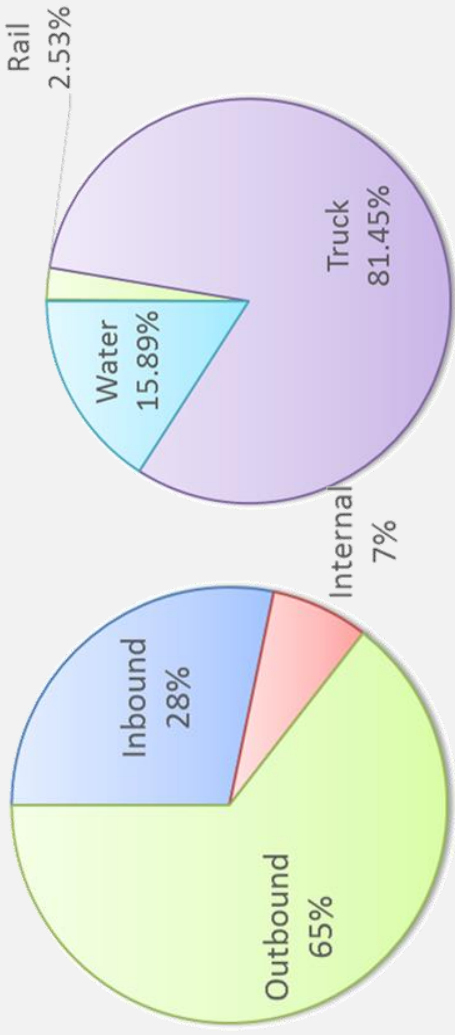
# PHARMACEUTICAL FLOWS



2015: 2.8 million tons  
 2045: 3.9 million tons (38% growth)

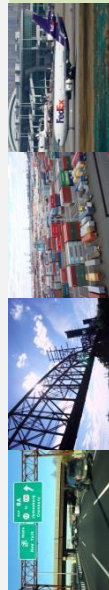
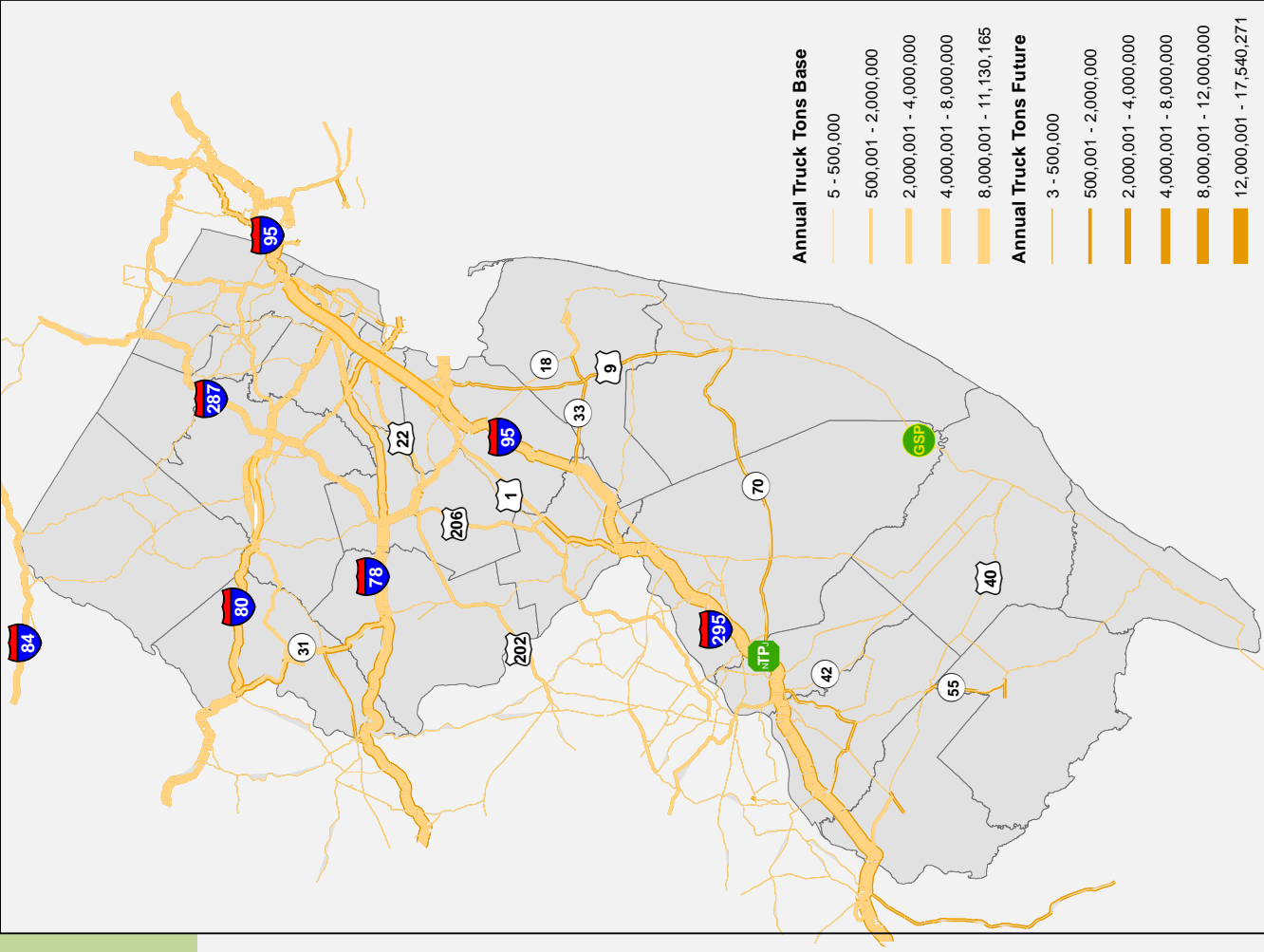


# CHEMICAL FLOWS



2015: 42 million tons

2045: 59 million tons (39% growth)



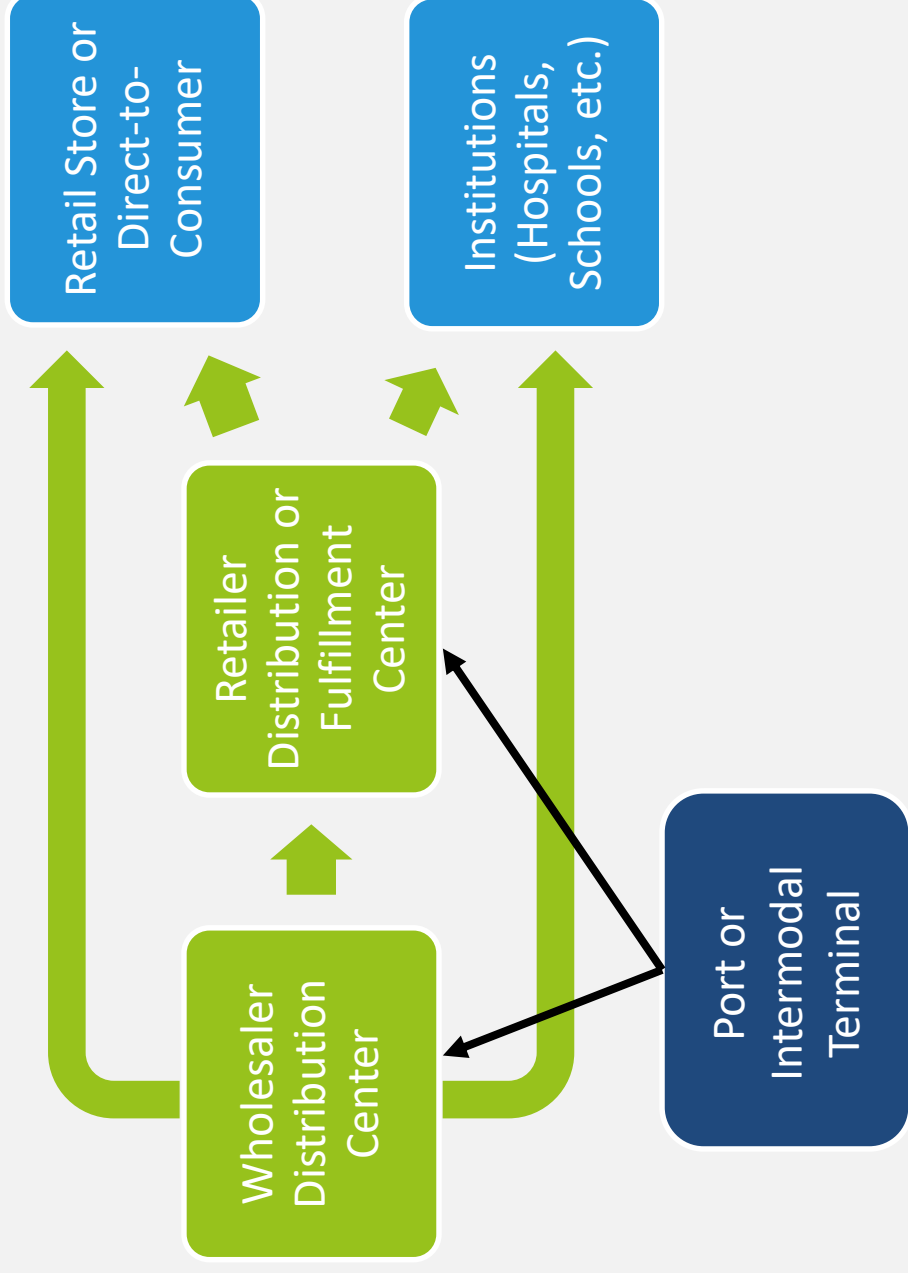


# DISTRIBUTION TRAFFIC

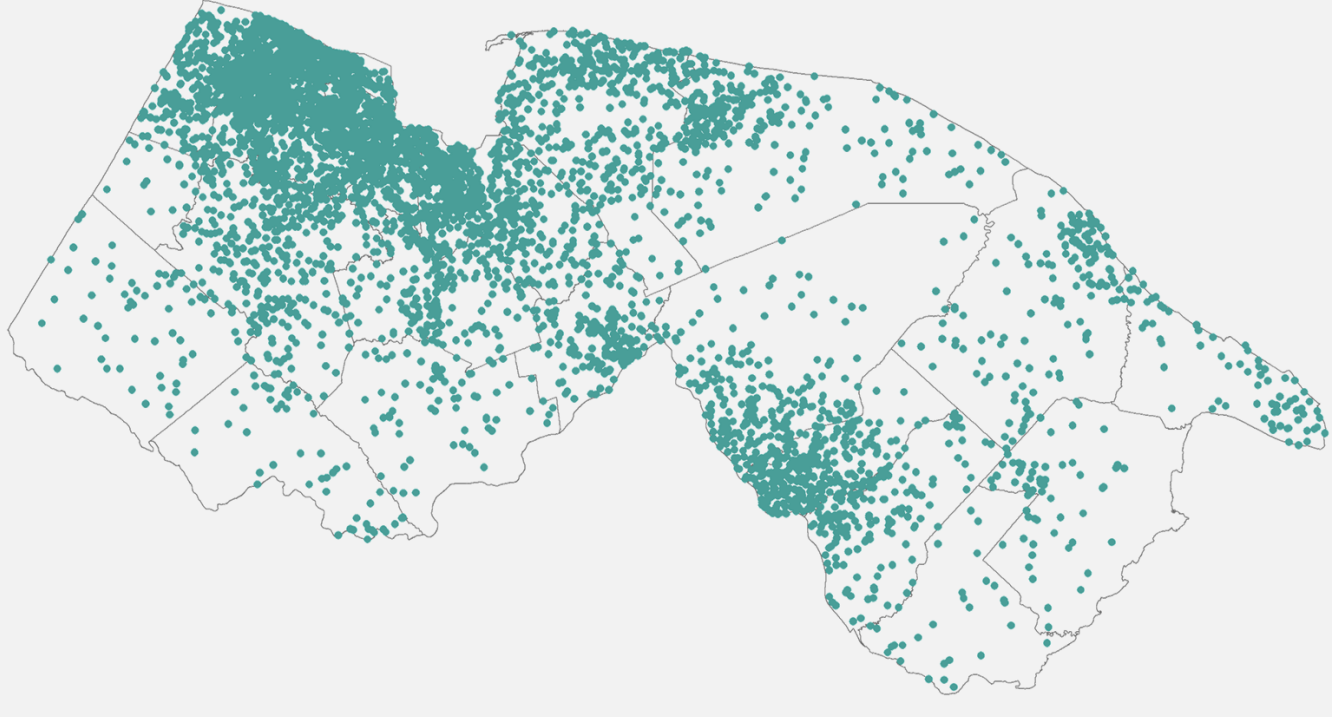
- **Secondary Freight**
- **Parcels**
- **Drayage**



# DISTRIBUTION TRAFFIC SUPPLY CHAIN



# DISTRIBUTION TRAFFIC INDUSTRY SECTORS



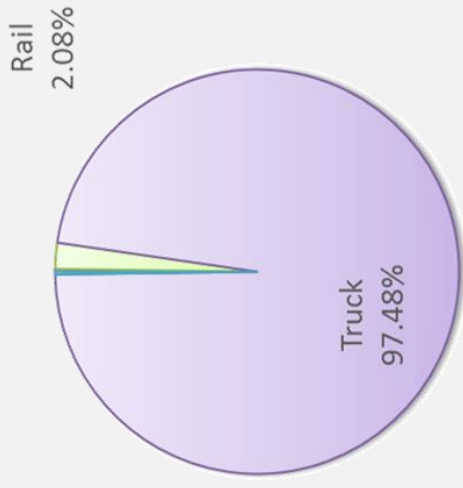
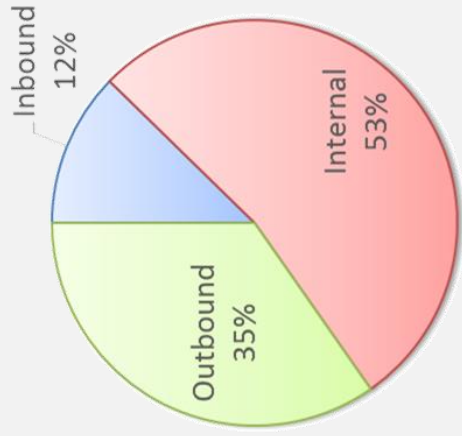
## Warehouse and Terminal Moves Related Industries

- Manufacturing
- Wholesale Trade
- Retail Trade
- Warehousing
- Freight Transportation Services
- Cargo Handling
- Couriers and Delivery

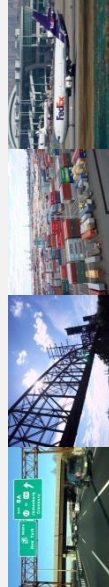
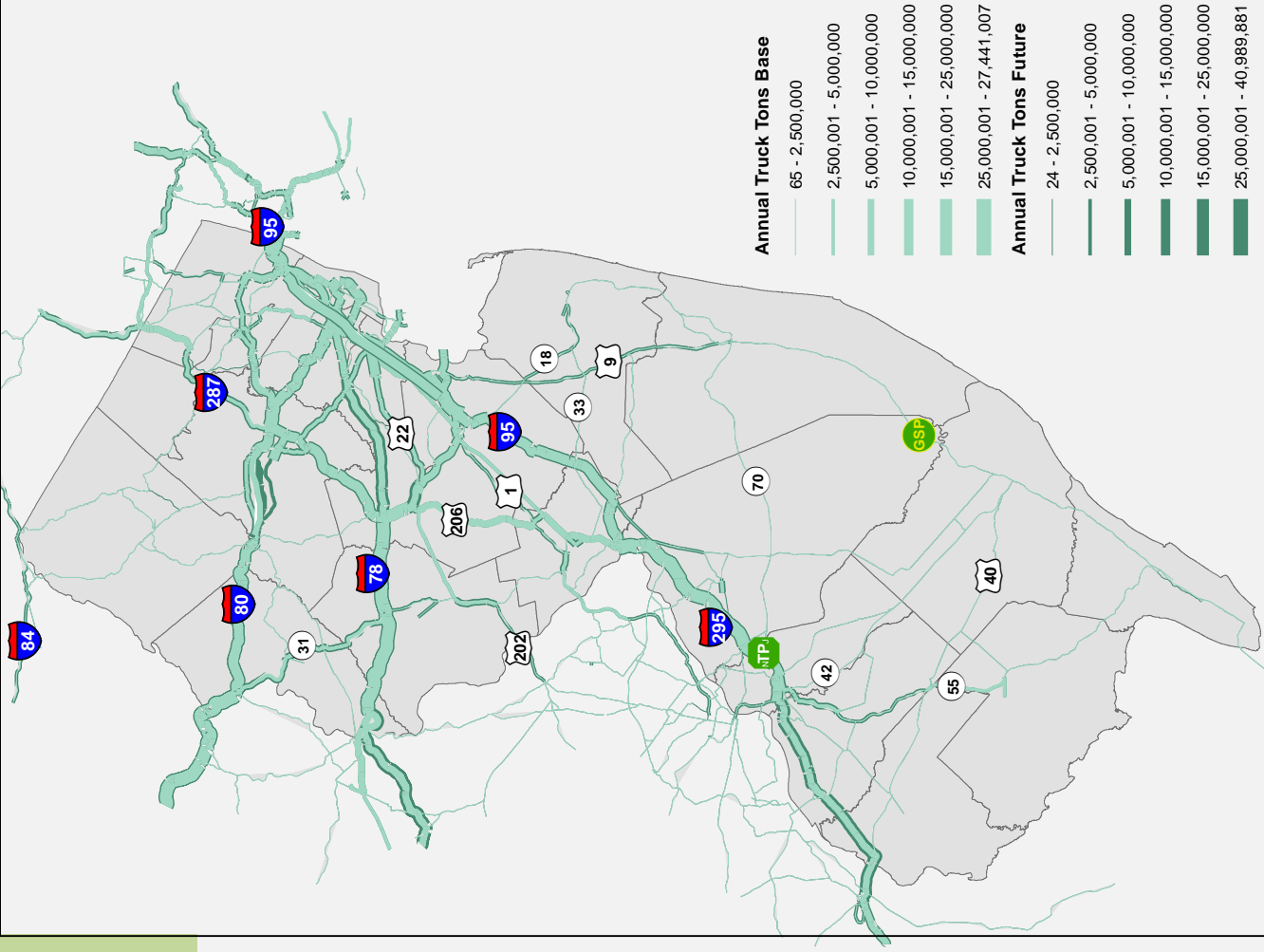


# DISTRIBUTION TRAFFIC FLOWS

440



2015: 101 million tons  
 2045: 156 million tons (54% growth)

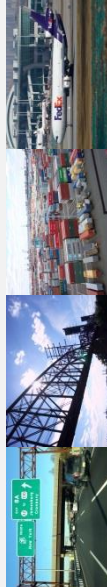
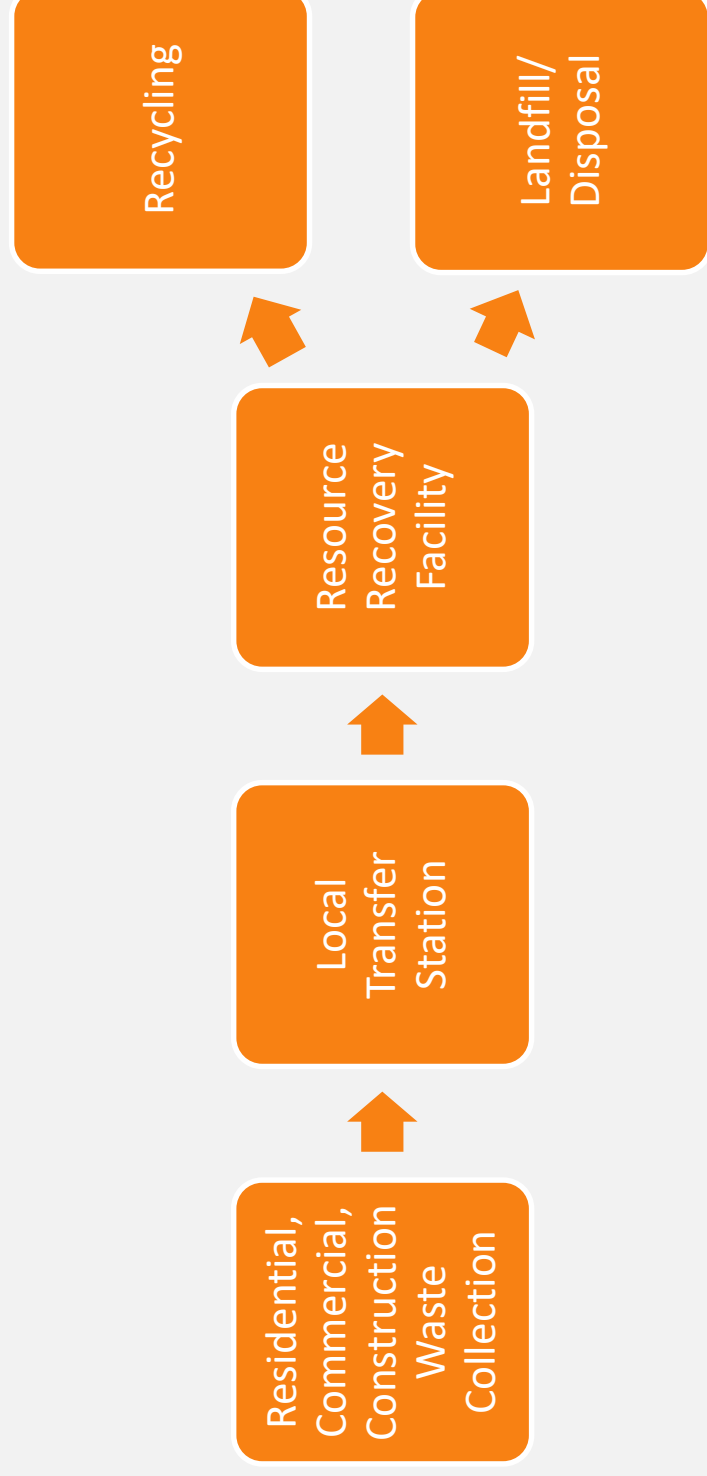


# WASTE

- **Waste/scrap materials**
- **Municipal solid waste**



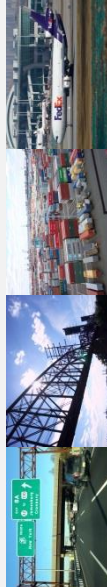
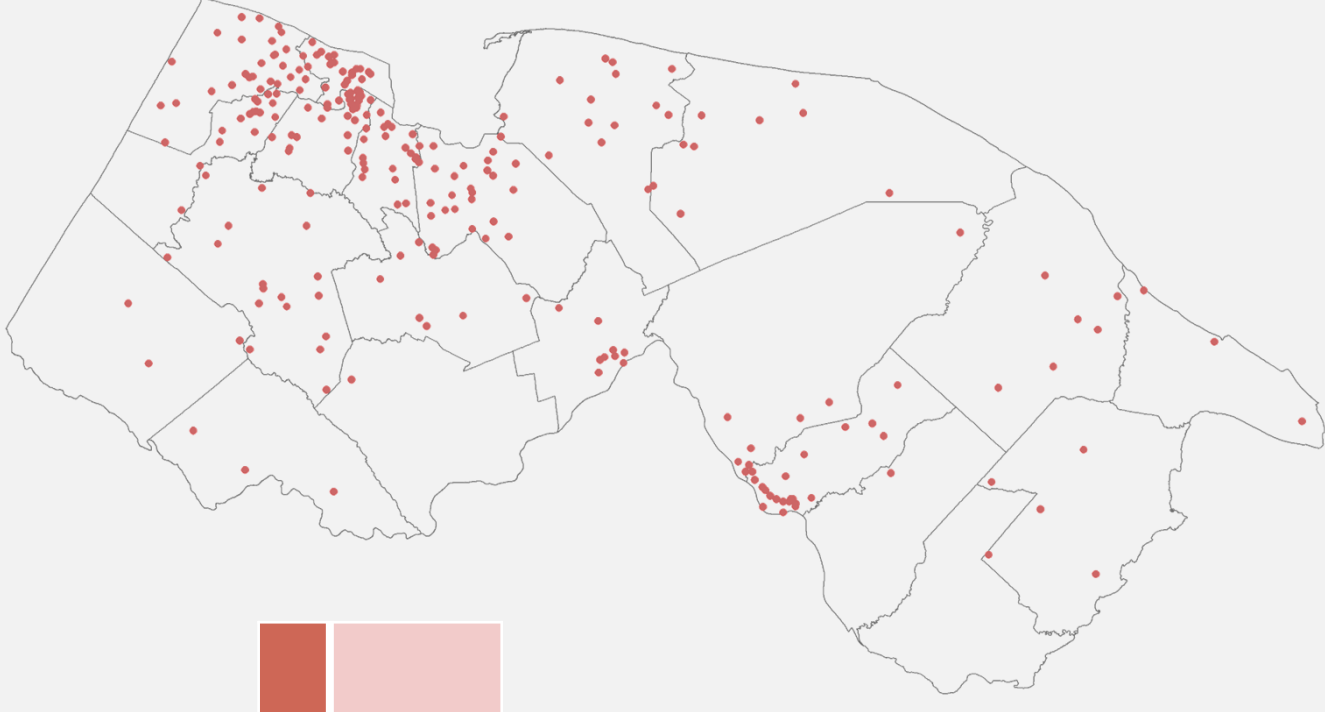
# WASTE SUPPLY CHAIN



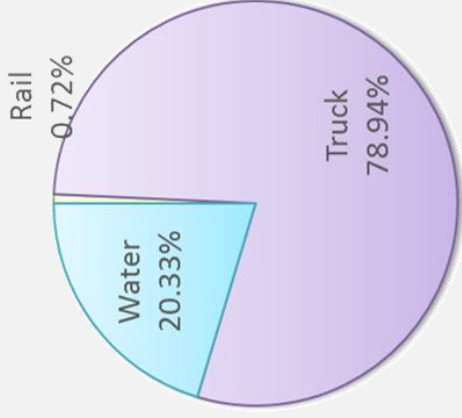
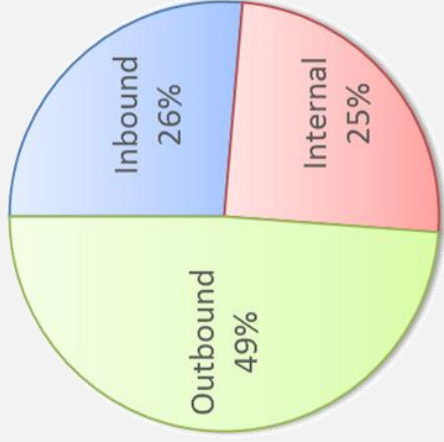
# WASTE INDUSTRY SECTORS

## Waste Related Industries

- Solid Waste Landfill
- Materials Recovery
- Recyclable Materials

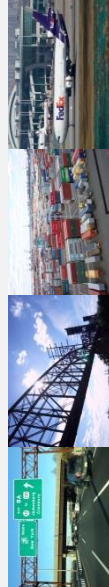
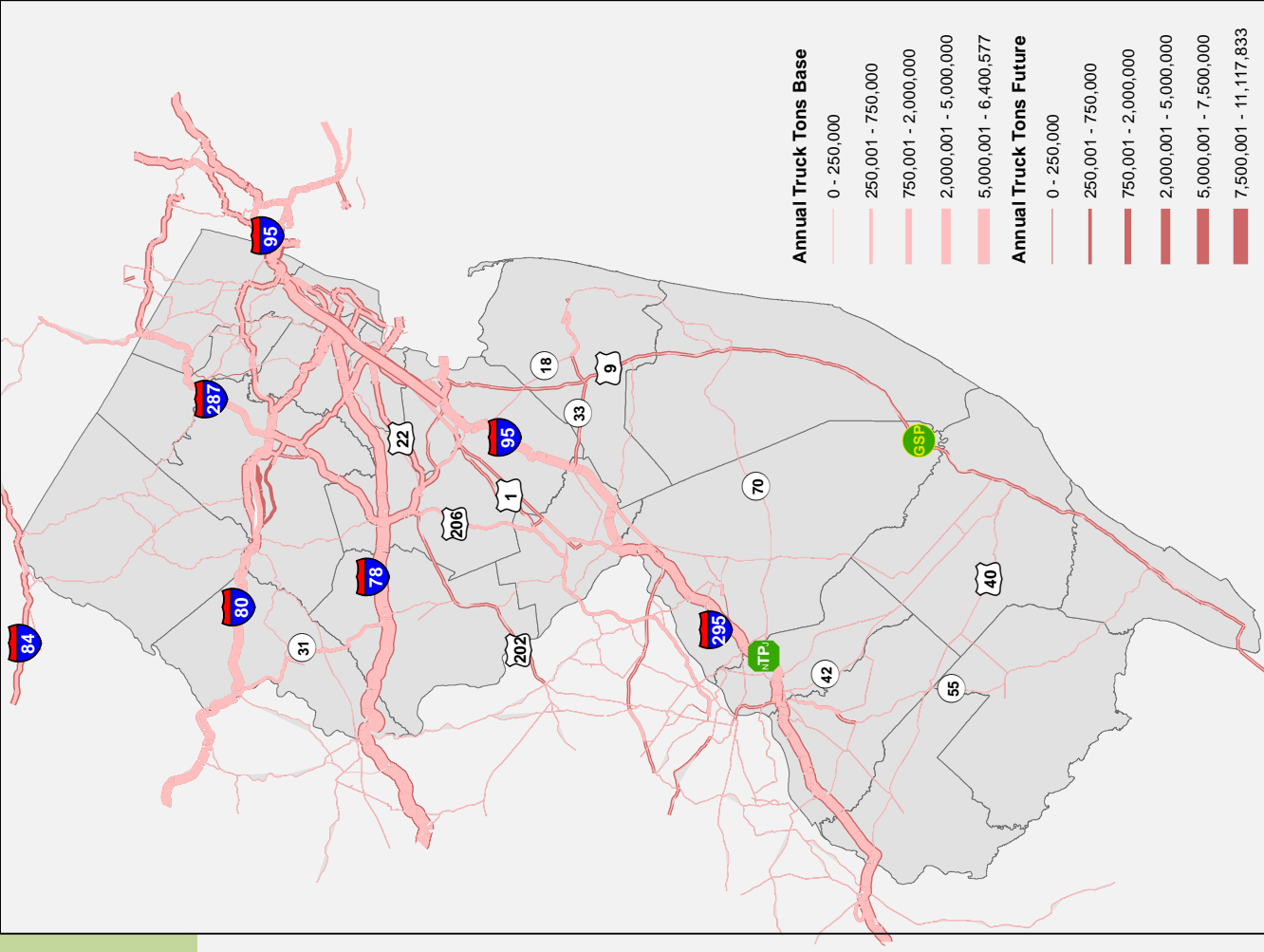


# WASTE FLOWS



2015: 26 million tons

2045: 40 million tons (55% growth)





# FREIGHT PROJECT AREAS BRAINSTORMING

- Highway Project Areas
- Rail Project Areas



# UPCOMING TASKS

- Finalization of Project List
  - Review additional data sources to support project list (Truck volumes, WIM data, speed data, reports/studies, permitting data)
  - Identify existing TIP projects that overlap with Problem Areas
  - Identify projects to be included on FAST funding list
  - Select CU/CR corridor segments
- Review of emerging trends and technologies
- Plan writing and reviews



**THANK YOU**

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***Jenn Grenier***

WSP USA

Jenn.Grenier@wsp.com  
732-857-6131





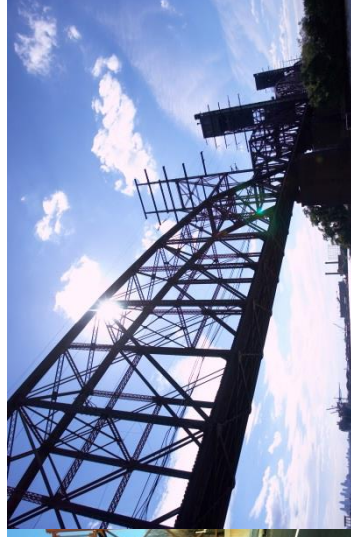


# FAC MEETING #5

3 AUGUST 2017



# New Jersey Freight Advisory Committee



# TODAYS AGENDA

- **Introductions**
- **Project Status Updates**
- **Highway Critical Problem Areas**
- **Identification of top projects for potential FAST funding (for each MPO)**
- **CRFC/CUFC**
- **Emerging Freight Trends and Concepts**
- **Next Steps/Upcoming Work Efforts**
  - **Plan Writing**
  - **FAC Input on Plan Chapters**
- **Next Meeting**





# PROJECT STATUS UPDATE

- **Input from FAC on Problem Areas Received**
  - Revised Crash Analysis/Clusters
- **Input from FAC on Draft Chapters 1&2 Received**
- **Draft Chapters to FAC (2 weeks per review)**
  - Chapter 3: Trends, Needs and Issues – Submittal to NJDOT next week
  - Chapter 4: Network/Performance – To FAC this week
  - Chapter 5: Innovative Technologies – To FAC this week
  - Chapter 6: Projects/Investment Plan – Mid-August
- **Update on Rail Project Areas**



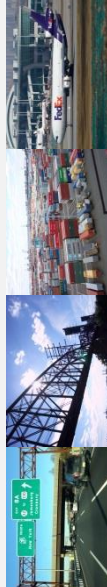
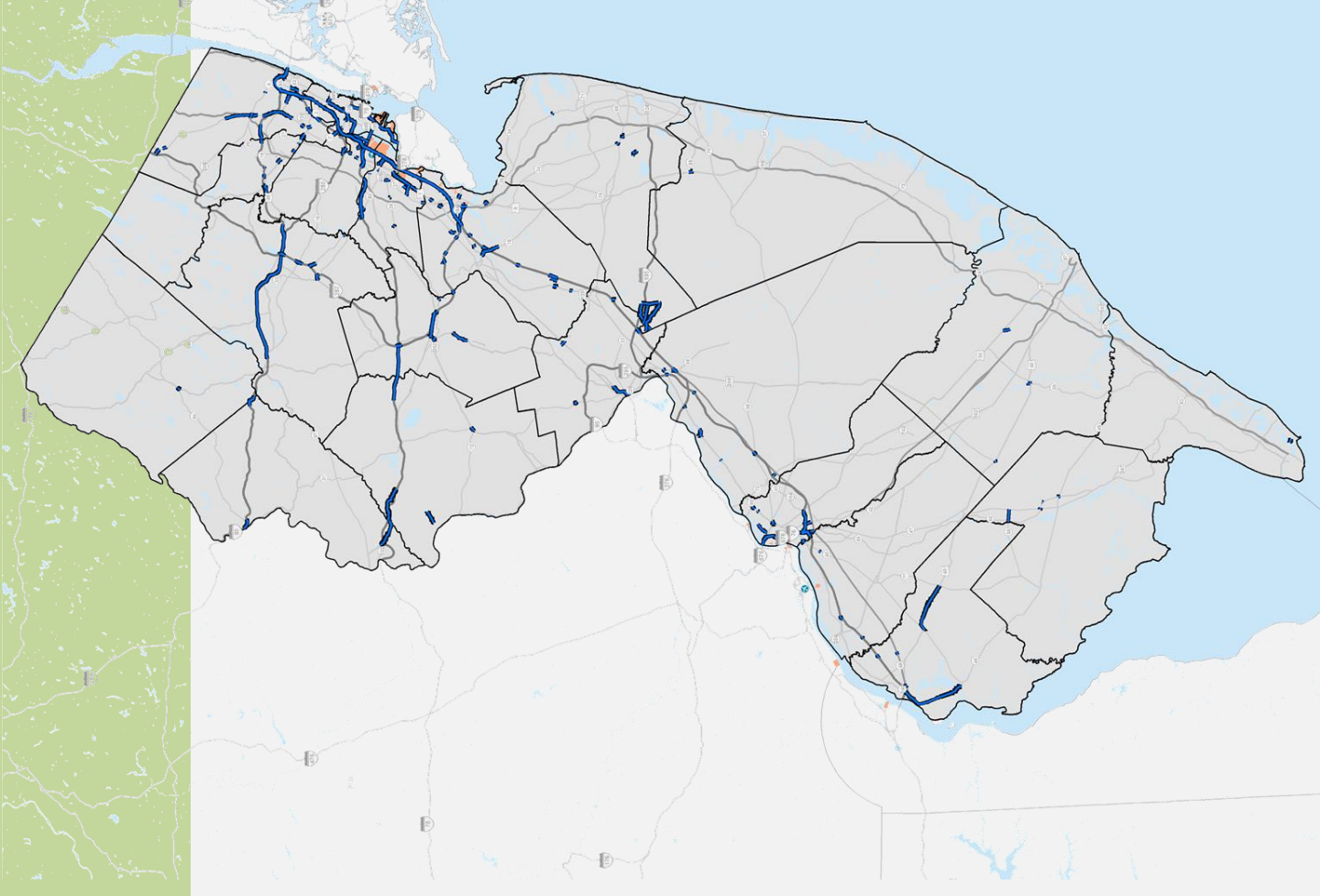
# HIGHWAY CRITICAL PROBLEM AREAS

- **Previously identified projects:**
  - Freight Plan II
  - South Jersey Economic Development Study
  - STIP
  - GMAP
- **FAC Input**
- **Corridor Analysis Locations with:**
  - High Travel Time Index or Low Average Truck Travel Speed, and
  - High Truck Crash Rate (based on crash cluster analysis)



# HIGHWAY CRITICAL PROBLEM AREAS

- **264 Problem Areas - 333 miles**
  - 13 corridors longer than 5 miles
  - 202 locations less than 1 mile
- **Spread Throughout our MPOs:**
  - DVRPC - 36
  - NJTPA - 211
  - SJTPO - 17
- **Every county is represented:**
  - Bergen/Middlesex - 34; Cape May - 1



# PROBLEM AREA PRIORITIZATION

- Each corridor is scored (high/medium/low/none) for four

categories:

- Speed
- Travel Time Index
- Truck Count (NJCMS)
- Truck Crash Cluster

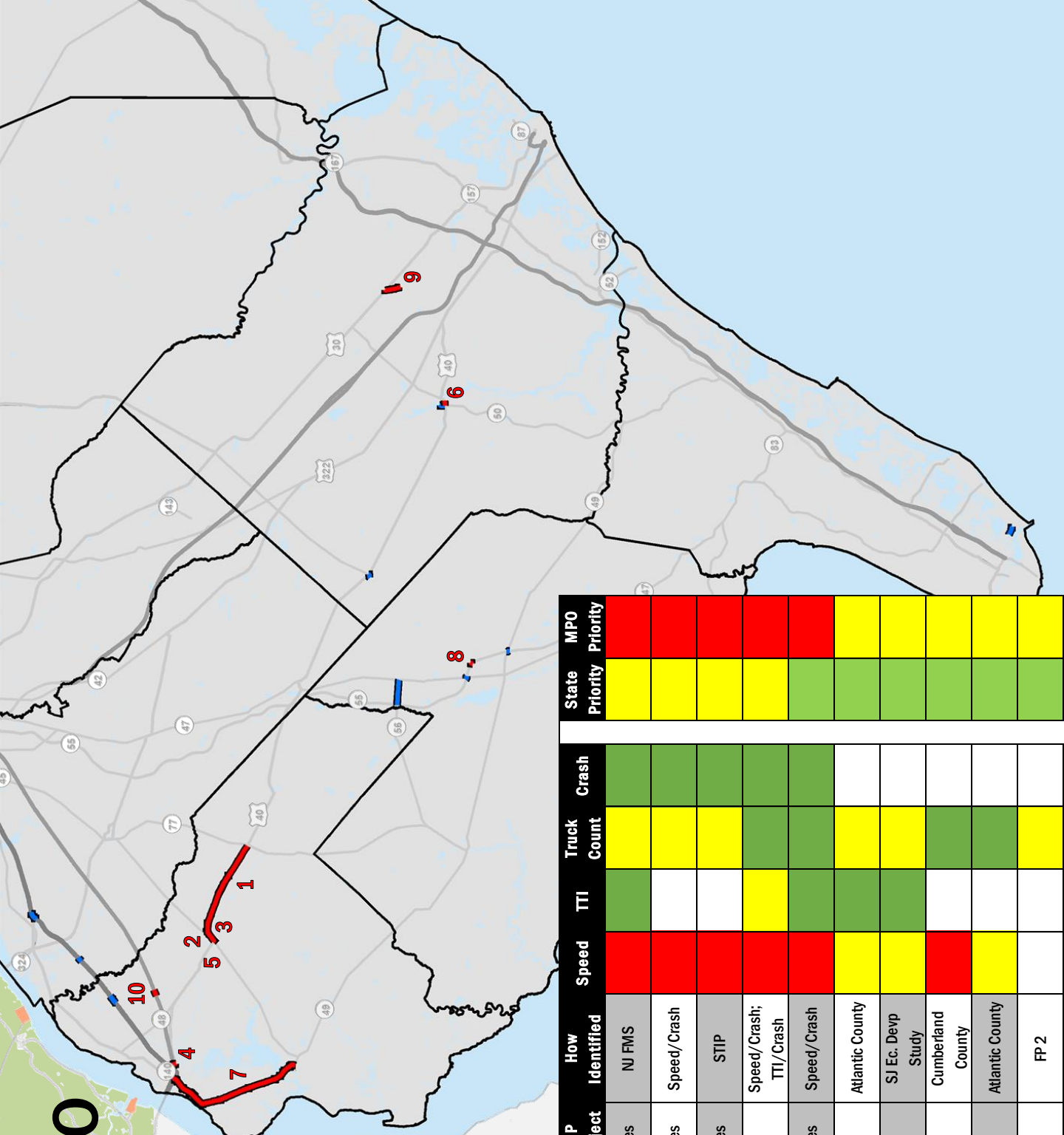
- Provides ability to prioritize (not rank) potential projects

<u>Speed</u>		<u>Truck Count (CMS)</u>	
<u>Non Interstate</u>	<u>Interstate</u>	<u>Non Interstate</u>	<u>Interstate</u>
0-25 mph	0-40 mph	> 200	> 500
3	3	3	3
25-35 mph	40-50 mph	50-200	100-500
2	2	2	2
35-50 mph	50-60 mph	< 50	< 100
1	1	1	1
50+ mph	60+ mph	Not Available	Not Available
0	0	0	0

<u>Travel Time Index</u>		<u>Truck Crash (Cluster Analysis)</u>	
<u>Non Interstate</u>	<u>Interstate</u>	<u>Non Interstate</u>	<u>Interstate</u>
> 7.0	> 7.0	High	High
3	3	3	3
5.0 - 7.0	5.0 - 7.0	Medium	Medium
2	2	2	2
3.5 - 5.0	3.5 - 5.0	Low	Low
1	1	1	1
< 3.5	< 3.5	No Cluster	No Cluster
0	0	0	0



# TOP PROBLEM AREAS - SJTPO



Speed		Truck Count (CMS)	
Non Interstate	Interstate	Non Interstate	Interstate
0-25 mph	3	> 200	3
25-35 mph	2	50-200	2
35-50 mph	1	< 50	1
50+ mph	0	Not Available	0

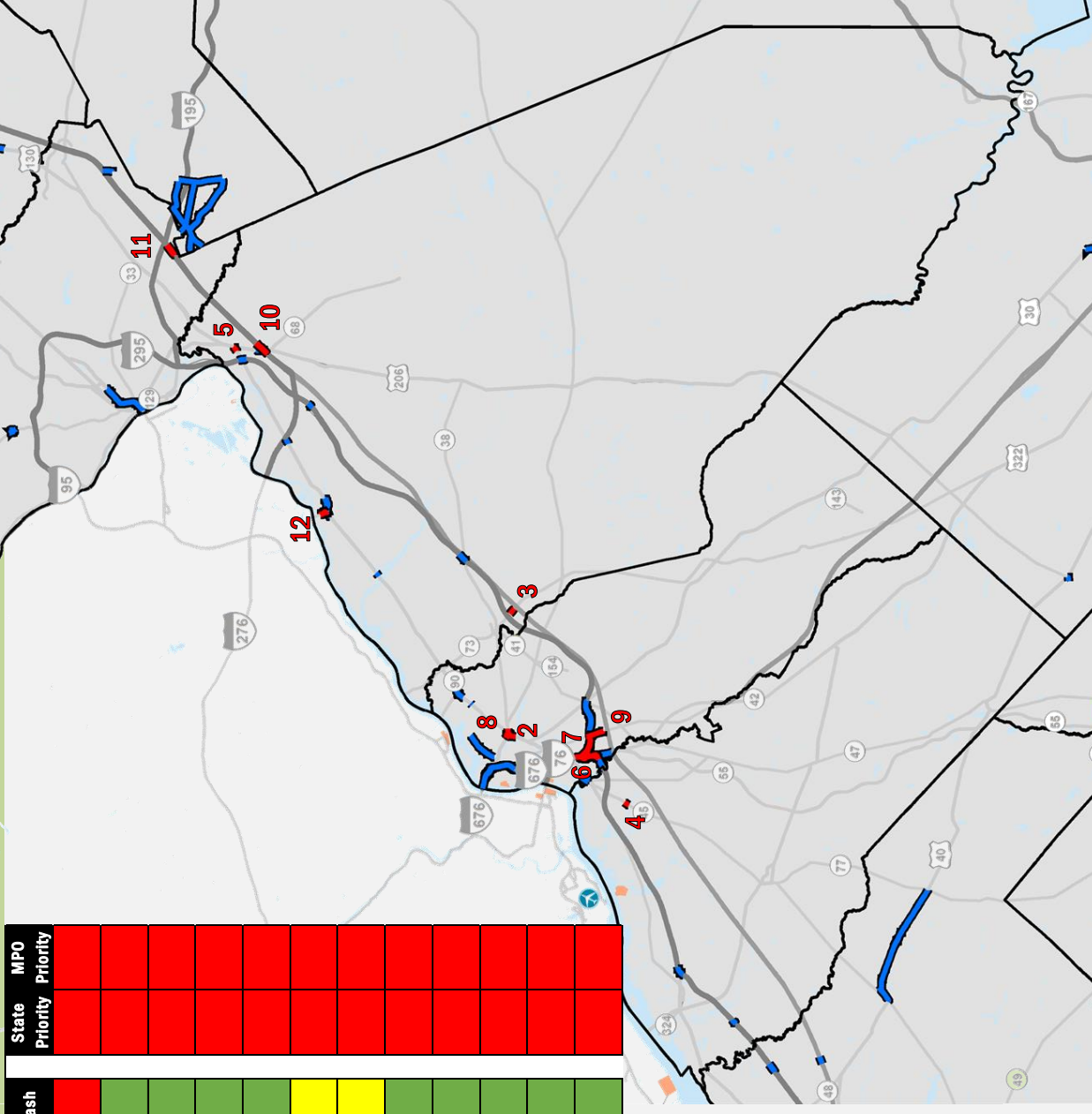
  

Travel Time Index		Truck Crash (Cluster Analysis)	
Non Interstate	Interstate	Non Interstate	Interstate
> 7.0	3	High	3
5.0 - 7.0	2	Medium	2
3.5 - 5.0	1	Low	1
< 3.5	0	No Cluster	0

ID	Route	County	Munic.	Start	MP Start	MP End	MP Length	NHFN	TIP Project	How Identified	Speed	TTI	Truck Count	Crash	State Priority	MPO Priority
1	US 40	Salem	Multiple	CR 616	10	NJ 77	6.5		Yes	NJ FMS	Red	Green	Yellow	Green	Yellow	Red
2	US 40	Salem	Woodstown Borough	Creek	10.4	Wilson Avenue	0.48		Yes	Speed/Crash	Red	White	White	Green	Yellow	Red
3	US 40	Salem	Woodstown Boro	Int. Improvement	10.5		0.3		Yes	STIP	Red	White	White	Green	Yellow	Red
4	NJ 140	Salem	Cameys Point Twp	US 130	0	US 40	0.99			Speed/Crash; TTI/Crash	Red	Yellow	Green	Green	Yellow	Red
5	NJ 45	Salem	Woodstown Borough	US 40	9.44	CR 636	0.22		Yes	Speed/Crash	Red	Green	Green	Green	Yellow	Red
6	US 40	Atlantic	Hamilton Twp	Cantillon Blvd	46.41	19th Street	0.31			Atlantic County	Yellow	Green	Green	Green	Yellow	Yellow
7	NJ 49	Salem	Multiple	I-295	0	Front Street	8.5			SJ Ec. Devp Study	Yellow	Green	Green	Green	Yellow	Yellow
8	CR 555	Cumberland	Vineland City	NJ 55	12.07	CR 655	0.1			Cumberland County	Red	White	Green	Green	Yellow	Yellow
9	CR 563	Atlantic	Galloway Twp	Country Club Drive	12.78	US 30	0.96			Atlantic County	Yellow	White	Green	Green	Yellow	Yellow
10	NJ 700 (NJT)	Salem	Oldmans Twp	Clara Barton/John	5.3	Clara Barton/John	0.4	Addition		FP 2	White	White	Green	Green	Yellow	Yellow

# TOP PROBLEM AREAS - DVRPC

ID	Route	County	Munic.	MP Start	MP End	MP Length	NHFN	TIP Project	How Identified	Speed	TTI	Truck Count	Crash	State Priority	MPO Priority
1	CR 571	Mercer	West Windsor Twp	41.96	Tiger Lane	42.5	0.54		Speed/Crash; TTI/Crash						
2	NJ 38	Camden	Pennsauken Twp	0	Browning Road	0.4	0.4		Speed/Crash; TTI/Crash						
3	NJ 73	Burlington	Mount Laurel Twp	27	I-295	27.68	0.68		Speed/Crash; TTI/Crash						
4	NJ 45	Gloucester	Westville Borough	26.3	Chestnut Street	26.6	0.3	Yes	Speed/Crash; TTI/Crash						
5	US 130	Burlington	Bordentown Twp	54.9	US 206	55.8	0.9	Yes	Speed/Crash; TTI/Crash						
6	I-76	Camden	Multiple	0	I-295	0.8	0.8	Y	Speed/Crash						
7	I-295	Camden	Bellmawr Borough	26.6	NJ 168	28.2	1.6	Y	Speed/Crash; TTI/Crash; STIP						
8	US 30/US 130	Camden	Pennsauken Twp	3	Vic of NJ 38	3.3	0.3		Speed/Crash; TTI/Crash						
9	NJ 168	Camden	Bellmawr Borough	6.6	I-295	7.42	0.82	Yes	Speed/Crash; TTI/Crash						
10	I-95	Burlington	Bordentown Twp	0	Ramps - Int 7	0	0	Y	Speed/Crash						
11	I-95	Mercer	Robbinsville Twp	14.5	Vic of Int 7A	15	0.5	Y	Speed/Crash						
12	NJ 413	Burlington	Burlington City	0.4	Broad Street	0.75	0.35		Speed/Crash; TTI/Crash						



Speed		Truck Count (CMS)			
Non Interstate	Interstate	Non Interstate		Interstate	
0-25 mph	3	0-40 mph	3	> 200	3
25-35 mph	2	40-50 mph	2	50-200	2
35-50 mph	1	50-60 mph	1	< 50	1
50+ mph	0	60+ mph	0	Not Available	0
Travel Time Index					
Non Interstate	Interstate	Non Interstate		Interstate	
> 7.0	3	> 7.0	3	High	3
5.0 - 7.0	2	5.0 - 7.0	2	Medium	2
3.5 - 5.0	1	3.5 - 5.0	1	Low	1
< 3.5	0	< 3.5	0	No Cluster	0

# TOP PROBLEM AREAS - NJTPA

Speed		Truck Count (CMS)			
Non Interstate	Interstate	Non Interstate	Interstate	Non Interstate	Interstate
0-25 mph	3	0-40 mph	3	> 200	3
25-35 mph	2	40-50 mph	2	50-200	2
35-50 mph	1	50-60 mph	1	< 50	1
50+ mph	0	60+ mph	0	Not Available	0

Travel Time Index		Truck Crash (Cluster Analysis)			
Non Interstate	Interstate	Non Interstate	Interstate	Non Interstate	Interstate
> 7.0	3	> 7.0	3	High	3
5.0 - 7.0	2	5.0 - 7.0	2	Medium	2
3.5 - 5.0	1	3.5 - 5.0	1	Low	1
< 3.5	0	< 3.5	0	No Cluster	0

ID	Route	County	Munic.	Start	MP Start	End	MP End	Length	NHFN	TIP Project	How Identified	Speed	TTI	Truck Count	Crash	State Priority	MPO Priority
1	I-95	Multiple	Multiple	I-287	42.2	GWB	78	35.8	Y	Yes	FP 2						
2	I-95	Bergen	Multiple	W Spur Split	71.3	GWB	77.4	6.1	Y	Yes	Speed/Crash; TTI/Crash						
3	US 1/9	Hudson	Multiple	US 1&9T	52	I-495	57.3	5.3		Addition	PANYU						
4	NJ 17	Bergen	Multiple	CR 36	6.65	CR 44	10.91	4.26		Addition	Speed/Crash; TTI/Crash						
5	NJ 139	Hudson	Jersey City	US 1/9	0	Summit Ave	0.47	0.47			Speed/Crash; TTI/Crash						
6	US 1/9	Union	Rahway City	North Ave	45.3	NJ 81	45.73	0.43		Addition	Speed/Crash; TTI/Crash						
7	I-95	Essex	Newark City	Int 14	58		65	7	Y		Speed/Crash; TTI/Crash						
8	I-95	Hudson	Secaucus Town	CR 653	66	NJ 3	67.8	1.8	Y		Speed/Crash; TTI/Crash						
9	US 46	Bergen	Multiple	Rail	71.52	US 1/9	72.09	0.57			Speed/Crash; TTI/Crash						
10	NJ 440	Hudson	Jersey City	Culver Ave	25.56	US 1/9T	26.18	0.62		Addition	Speed/Crash; TTI/Crash						
11	US 46	Bergen	Multiple	CR 503	69.52	Main St	70.42	0.9		Yes	Speed/Crash; TTI/Crash						
12	US 1/9T	Hudson	Multiple	Doremus Ave	0.5	US 1&9	4.35	3.85		Addition	PANYU						
13	NJ 7	Hudson	Multiple	US 1/9	0	Fish House Rd	0.73	0.73			Speed/Crash; TTI/Crash						

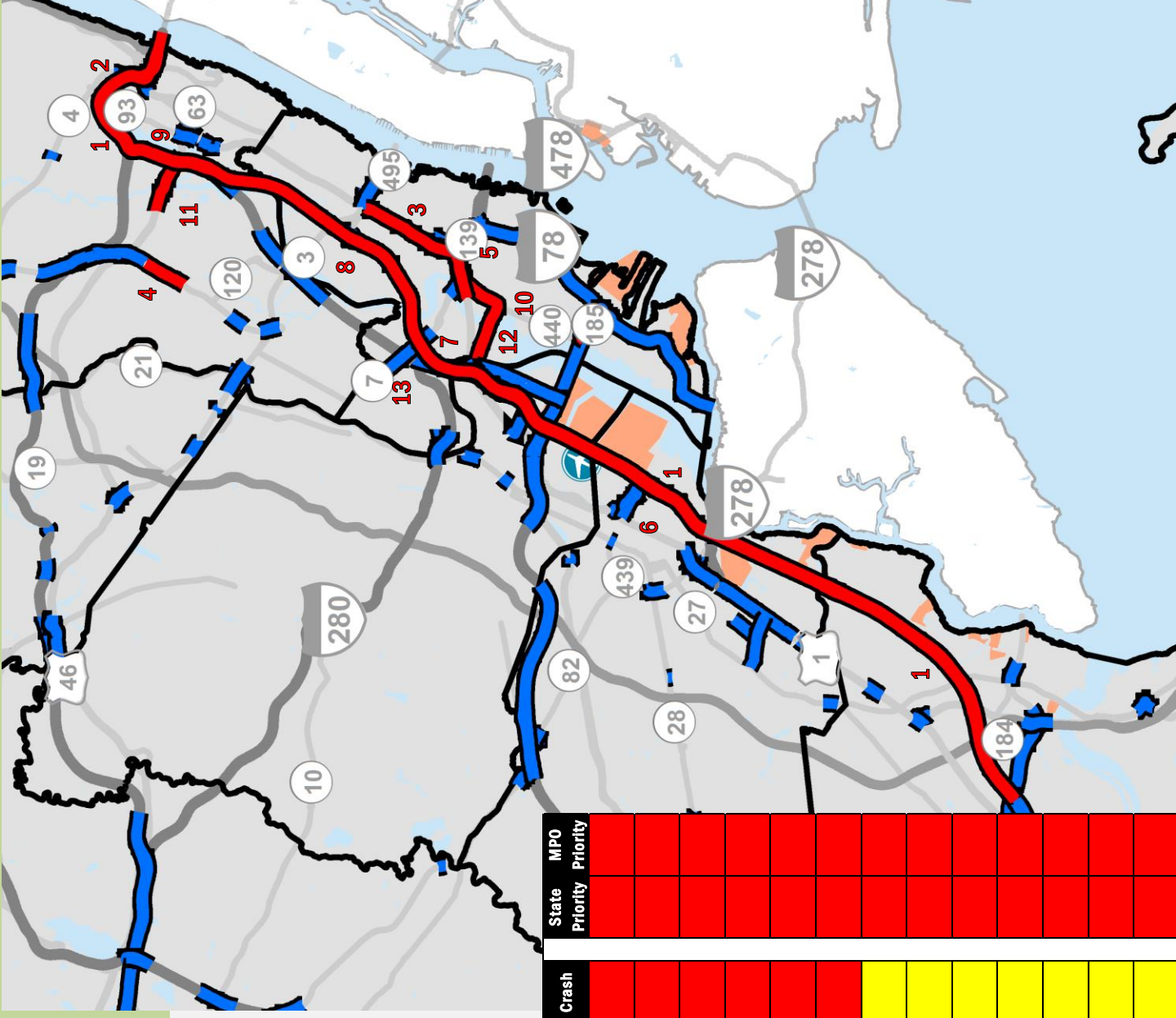


# TOP PROBLEM AREAS - NJTPA

Speed	Truck Count (CMS)	
	Non Interstate	Interstate
0-25 mph	3	3
25-35 mph	2	2
35-50 mph	1	1
50+ mph	0	0
	> 200	> 500
	50-200	100-500
	< 50	< 100
	Not Available	Not Available
	0	0

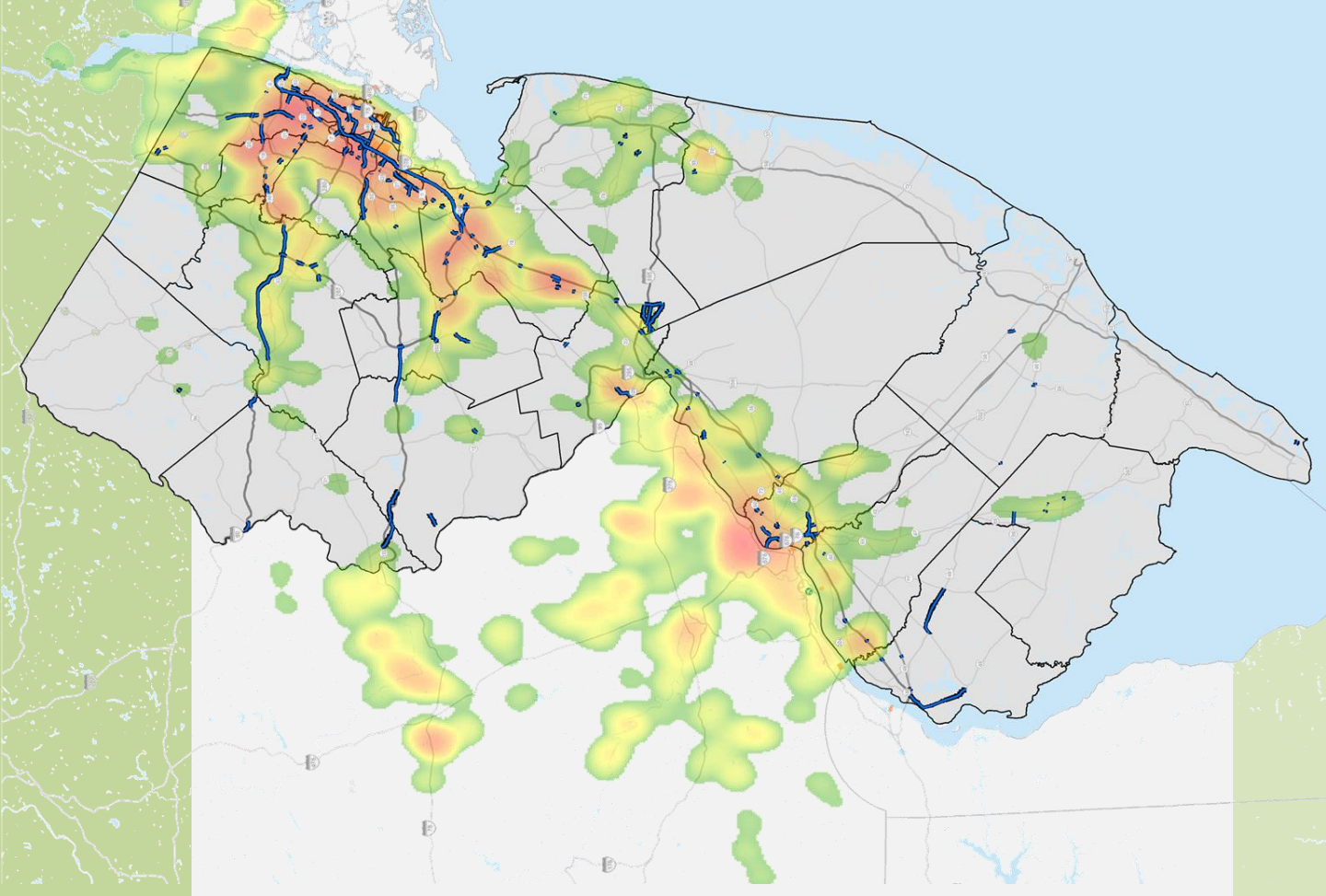
Travel Time Index	Truck Crash (Cluster Analysis)	
	Non Interstate	Interstate
> 7.0	3	3
5.0 - 7.0	2	2
3.5 - 5.0	1	1
< 3.5	0	0
	High	High
	Medium	Medium
	Low	Low
	No Cluster	No Cluster



ID	Route	County	Munic.	Start	MP	End	MP	End	MP	Length	NHFN	TIP	Project	How Identified	Speed	TTI	Truck Count	Crash	State Priority	MPO Priority
1	I-95	Multiple	Multiple	I-287	42.2	GWB	78	35.8	Y	Yes	FP 2	Yes	FP 2	Speed/Crash; TTI/Crash						
2	I-95	Bergen	Multiple	W Spur Split	71.3	GWB	77.4	6.1	Y	Yes	Speed/Crash; TTI/Crash	Yes	Speed/Crash; TTI/Crash	Speed/Crash; TTI/Crash						
3	US 1/9	Hudson	Multiple	US 1&9T	52	I-495	57.3	5.3		Addition	PANWU		PANWU	PANWU						
4	NJ 17	Bergen	Multiple	CR 36	6.65	CR 44	10.91	4.26		Addition	Speed/Crash; TTI/Crash	Yes	Speed/Crash; TTI/Crash	Speed/Crash; TTI/Crash						
5	NJ 139	Hudson	Jersey City	US 1/9	0	Summit Ave	0.47	0.47			Speed/Crash; TTI/Crash		Speed/Crash; TTI/Crash	Speed/Crash; TTI/Crash						
6	US 1/9	Union	Rahway City	North Ave	45.3	NJ 81	45.73	0.43		Addition	Speed/Crash; TTI/Crash		Speed/Crash; TTI/Crash	Speed/Crash; TTI/Crash						
7	I-95	Essex	Newark City	Int 14	58		65	7	Y					Speed/Crash; TTI/Crash						
8	I-95	Hudson	Secaucus Town	CR 653	66	NJ 3	67.8	1.8	Y					Speed/Crash; TTI/Crash						
9	US 46	Bergen	Multiple	Rail	71.52	US 1/9	72.09	0.57						Speed/Crash; TTI/Crash						
10	NJ 440	Hudson	Jersey City	Culver Ave	25.56	US 1/9T	26.18	0.62		Addition	Speed/Crash; TTI/Crash	Yes	Speed/Crash; TTI/Crash	Speed/Crash; TTI/Crash						
11	US 46	Bergen	Multiple	CR 503	69.52	Main St	70.42	0.9				Yes	Speed/Crash; TTI/Crash	Speed/Crash; TTI/Crash						
12	US 1/9T	Hudson	Multiple	Doremus Ave	0.5	US 1&9	4.35	3.85		Addition	PANWU		PANWU	PANWU						
13	NJ 7	Hudson	Multiple	US 1/9	0	Fish House Rd	0.73	0.73						Speed/Crash; TTI/Crash						



# OTHER POTENTIAL FACTORS - WAREHOUSING



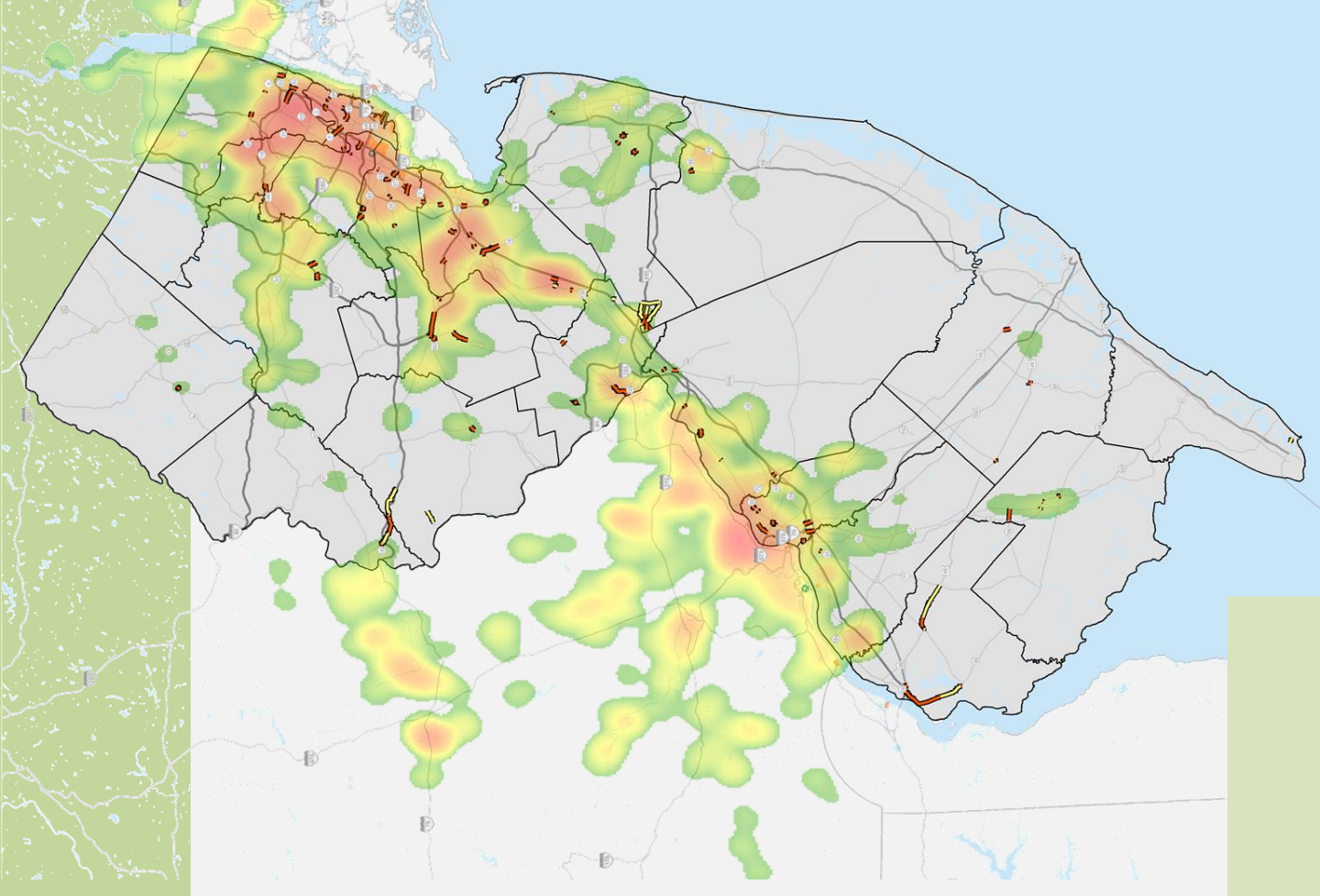
# TOP PROBLEM AREAS FOR POTENTIAL FAST FUNDING

- Top locations are based on the project team's prioritization
- For each MPO, your homework is:
  - Review the problem area list
  - From the 264 problem areas, provide your Top 3-5 locations for:
    - Planning Projects (Initial studies/feasibility)
    - Capital Improvements (Design/Construction)



# CUFC/CRFC

- When NHFN Roadways are removed, the problem area list results in **110.5 miles:**
  - Urban – **85.4 (75 mile limit)**
  - Rural – **24.6 (150 mile limit)**
- For each MPO:
  - Identify 3-5 miles of potential CUFC projects that can be dropped from consideration



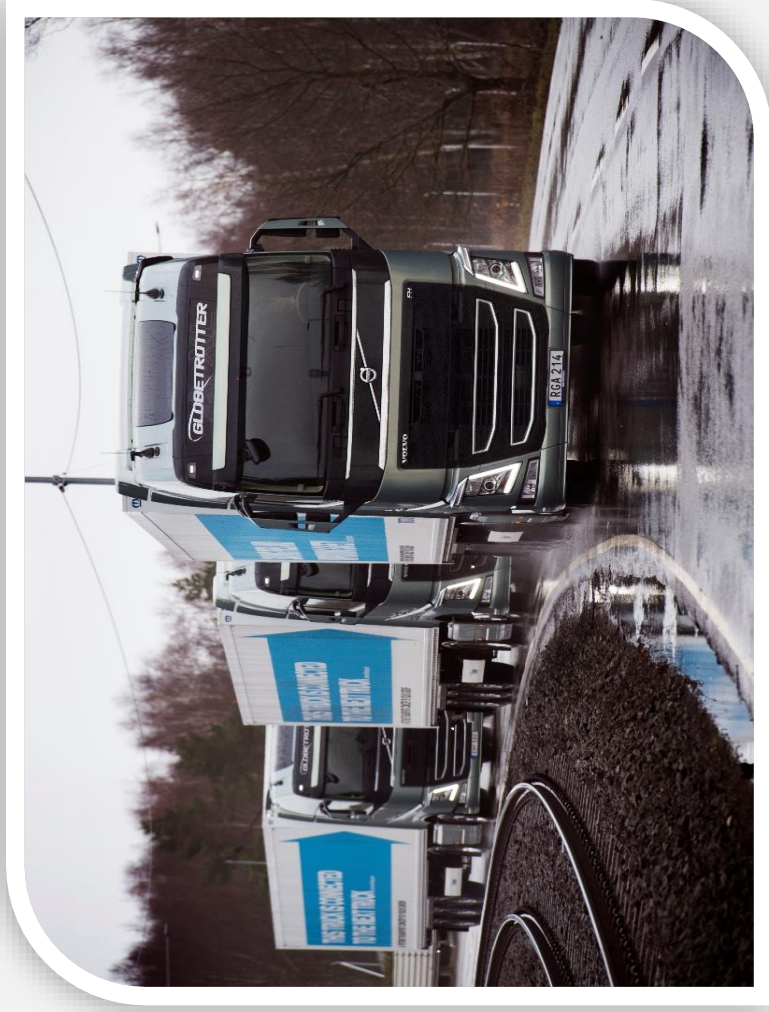
# EMERGING FREIGHT TRENDS AND CONCEPTS

- **Connected and Automated/Autonomous Vehicles**
- **Intermodal Rail Developments**
- **Warehouse Location and Automation**
- **Retail Home Delivery**
- **Supply Chain Sourcing**
- **3D Printing**

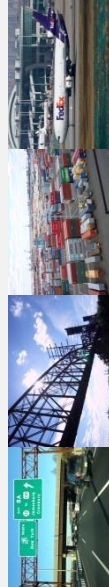


# CONNECTED AND AUTOMATED/AUTONOMOUS VEHICLES

- Automated Freight Delivery is here - October 2016
- Top Trucking Issues and Autonomous Truck Benefits

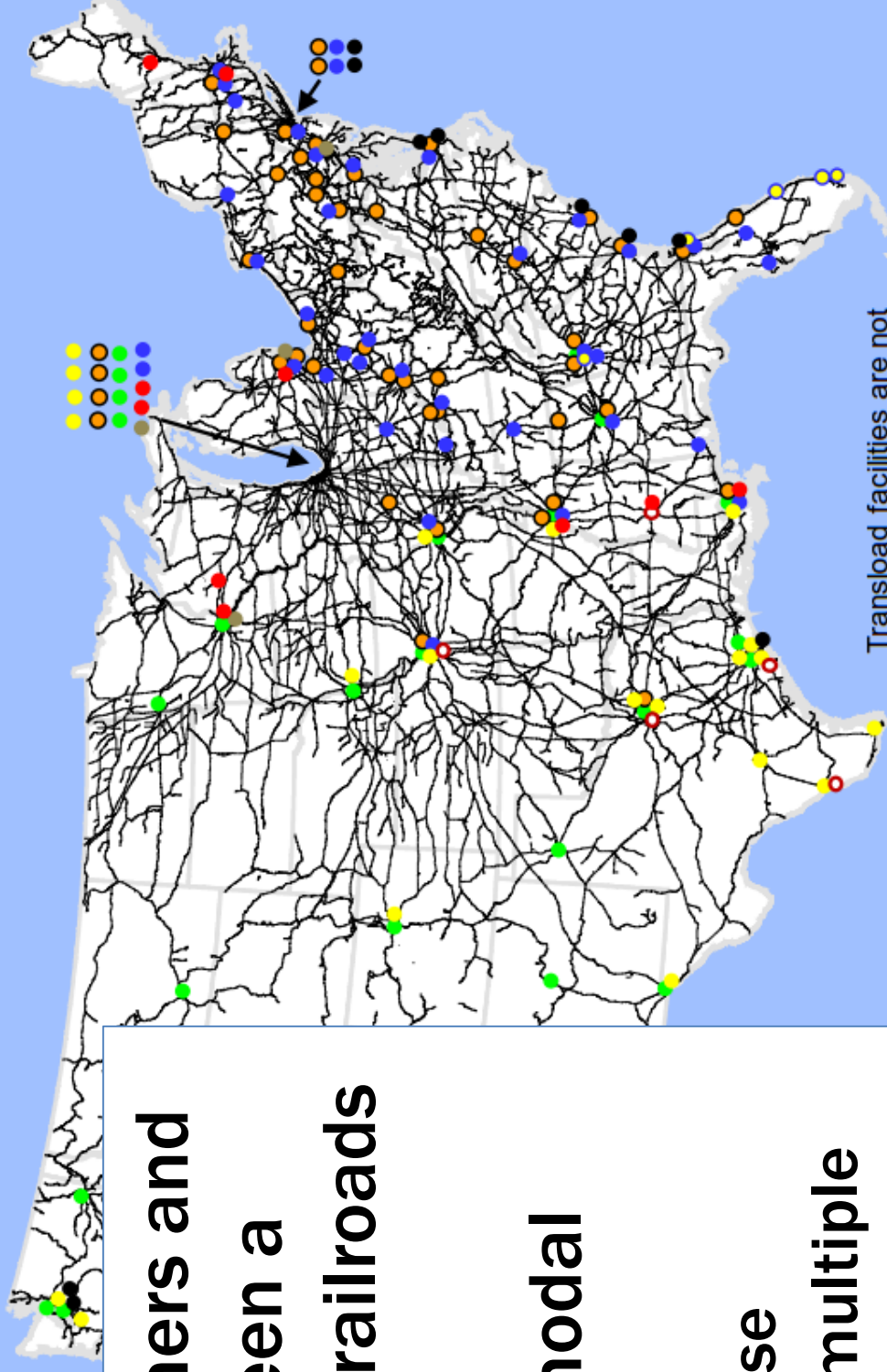


Top Issues	Key Autonomous Truck Benefit
Hours-of-Service	Allows for driver rest and productivity to occur simultaneously.
Compliance, Safety, Accountability	Will decrease raw SMS scores, though percentile scoring needs to change.
Driver Shortage	Driving more attractive with higher productivity, less time away from home, and additional logistics tasks; fewer driver may be needed.
Driver Retention	Companies with autonomous technology may attract and retain drivers.
Truck Parking	If "productive rest" is taken in the cab during operations, less time will be required away from home at truck parking facilities and fewer facilities will be needed.
Electronic Logging Device Mandate	Modifications will be necessary depending on level of autonomy.
Driver Health and Wellness	Driver could be less sedentary; injuries could be reduced.
The Economy	Carriers that use AT may see productivity and cost benefits.
Infrastructure / Congestion / Funding	Urban congestion could be mitigated through widespread use of autonomous vehicles (including cars).
Driver Distraction	Drivers will not be distracted from driving if vehicle in autonomous mode.

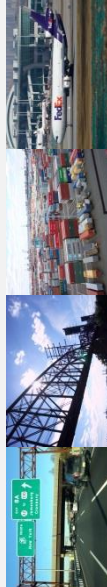


# INTERMODAL RAIL DEVELOPMENTS

## MAJOR U.S. RAIL INTERMODAL TERMINALS



- **Intermodal traffic (containers and trailers on flatcars) has been a growth market for freight railroads for many years**
- **New Jersey is a key intermodal center for the Northeast**
  - **access to seaports, immense metropolitan populations, multiple intermodal facilities**



# INTERMODAL RAIL DEVELOPMENTS

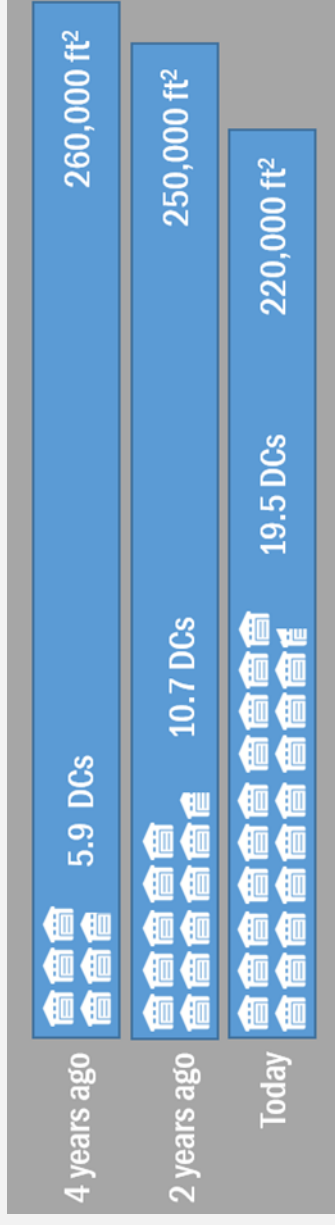
- **New intermodal operating model by CSX (Hub in Ohio, another planned for North Carolina)**
  - **Widespan cranes that cross multiple tracks**
  - **Rapid/primarily automated container transfers**
  - **Allows trainload volumes to be assembled for markets that previously could not fill a train**
  - **550 miles versus 750 miles (more comparable to a truck trip)**



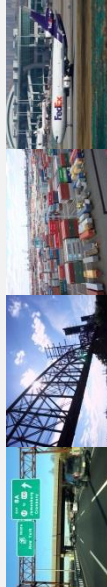
# WAREHOUSE LOCATION AND AUTOMATION

- Number of Distribution Centers (DCs) utilized by US supply chains has tripled in the past four years
  - due to rising importance of faster time to market

– requires staging points for goods be placed closer to the points of consumption



- Average size of DCs has gone down in parallel
  - inventory is divided up and some of the added facilities are simple cross-docks
  - warehouse automation has made it possible to reduce the physical footprint of DCs by two-thirds with no sacrifice in throughput
  - automated facilities can have *three times* the freight generation per square foot of traditional DCs





# WAREHOUSE LOCATION AND AUTOMATION

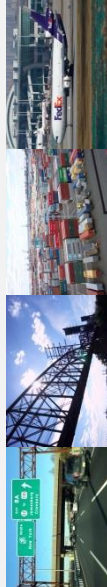
Significant increases in use of warehouse automation in past 5 years

Replacement of forklifts by robotic systems enables:

- narrower aisles between storage racks and higher racks
- greater density of stored product horizontally and vertically
- Ceiling heights in new warehouses can be in the range of 40 to 50 ft. (30 ft. was considered high

Impact on Warehouse Sites

- Those that were not viable can be because the acreage and cost of land required is smaller (a 100ksf DC generally requires a land parcel of just 8 acres)
- Opportunity and a need for redevelopment of existing warehouse building stock
- Facilities designed for more labor-intensive warehouse operations gradually may become obsolete



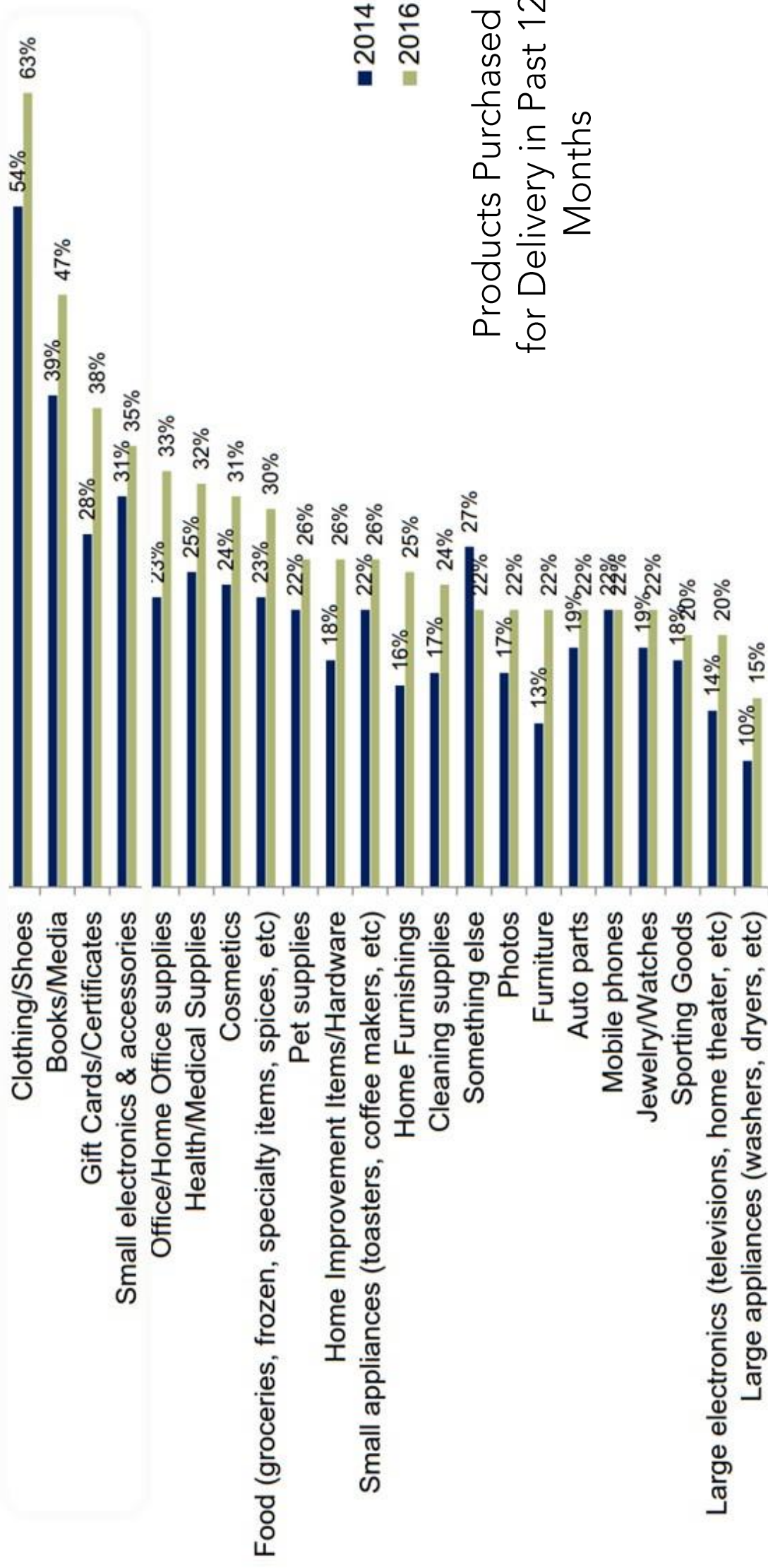
# RETAIL HOME DELIVERY

- **Emphasis on time to market driven by growth in consumer home delivery**
  - Retailers and manufacturers expect direct to consumer sales to increase
  - From 2004 to 2014 the US Census Retail Trade Survey reports that e-commerce rose from 2.1 percent of total retail trade to 6.4 percent
  - Omni-channel retail – merger of in-store with on-line shopping
  - Home deliveries now include such every-day and bulky household items as pet food and paper products.
  - Meaningful growth in on-line purchases for essentially every product type indicates that a wide variety of household needs can be met by e-commerce.

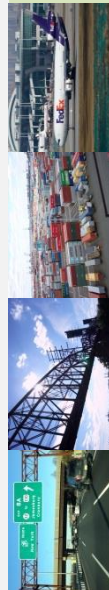


# Freight Products Purchased for Delivery in Past 12 Months

## RETAIL HOME DELIVERY



Products Purchased for Delivery in Past 12 Months



# RETAIL HOME DELIVERY

Truck deliveries into residential communities will:

- continue to climb
- carry a greater range of goods
- replace some passenger trips to stores
- occur in urban, suburban, and rural settings

Truck deliveries will emanate from a greater variety of locations

- carrier terminals and stores
- new local staging points
- Land use policies and zoning will intersect with this
- Retailers report an increase in the frequency of inbound delivery to stores, due to customer pick-up of on-line orders



# SUPPLY CHAIN SOURCING

Relates to where:

- Retailers obtain products for sale
- Manufacturers obtain materials and components
- Manufacturers locate production that supplies the retailers

- **Off-shoring trend shuttered almost 40% of large US factories in the 2000s**
  - Low wage rates in Asia – low transportation costs (fuel prices and large ships)
  - Higher productivity due to automation and information technology – lower labor components



# SUPPLY CHAIN SOURCING

- Near shoring - return of manufacturing to near US from Asia
- Re-shoring - return of manufacturing from Asia

- Chinese wages rise and fuel prices rose in the mid-2000s
- Hopes that off-shoring would retract in key industries where the cost differential was promising
- Near/Re-shoring has not materialized
  - Instead see moves to other Asian countries (Vietnam)
  - However still seen as viable/possibly a business priority in some industries
  - Advantages in time to market and automation (robotics, optic, artificial intelligence, 3D printing)

Computers & Electronics  
Machinery  
Transportation Goods  
Fabricated Metal Products  
Appliances & Electrical Equipment  
Furniture  
Plastics & Rubber Products



# SUPPLY CHAIN SOURCING

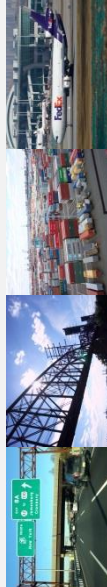
- **Outlook for supply chain sourcing is speculative**
  - US administration is unenthusiastic about free trade agreements and is keen to protect American jobs
  - May lead manufacturers to put or keep plants in the U.S. and lead retailers to buy from them
  - Foreign governments will respond in unknown ways, and disagreements in one area can spill over into others
- **New Jersey planners must observe developments closely**
- **Forums (such as New Jersey’s Freight Advisory Committee) become important conduit to share understanding**
  - Identify opportunities and threats
  - Make investments with an appropriate recognition of risk



# 3D PRINTING

- **Principal transportation effect is to substitute local production for longer distance transportation from plants and DCs**
- **Currently best suited to “low volume, moderate valued products that require high customization on short lead times”**
- **Applies to finished products and product components**
- **Top markets today:**
  - **consumer electronics, automotive, and medical devices.**
- **New developing market in food products**
  - **manufacturing process for foods like pasta and specialties like confectionary**

	High	Moderate	Low
Demand Volumes	Red	Yellow	Green
Customization Requirements	Green	Green	Yellow
Responsiveness Requirements	Green	Yellow	Red
Product Cost	Green	Green	Yellow
Product Range	Green	Green	Yellow
Highly Suitable			
Moderately Suitable			
Not Suitable			





# 3D PRINTING

- Key consideration is the reduction or elimination of inventories required in small amounts that need positioning in many locations
- Replacement parts are a prime example
- Manufacturing components in general are being evaluated by industry for possible 3D fabrication – recognizing that the process in some ways represents the ultimate in just-in-time production



# 3D PRINTING

- Key consideration is the reduction or elimination of inventories required in small amounts that need positioning in many locations
  - Replacement parts are a prime example
  - Manufacturing components in general are being evaluated by industry for possible 3D fabrication
    - recognizing that the process in some ways represents the ultimate in just-in-time production

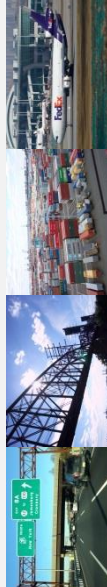
## New joint venture launched in May 2016 by 3 partners

- UPS - a third party logistics provider (3PL) as well as the world's largest freight carrier
  - SAP - a leading producer of enterprise software for supply chain management
  - Fast Radius - a maker of machine parts using 3D printers
- Established a network of printers at over sixty UPS Store locations nationwide as well as a factory at the UPS global air hub in Louisville, KY.
  - No sites yet in New Jersey, but 3 are nearby in New York City and Allentown, PA



# 3D PRINTING

- **Near-term consequences of 3D printing in New Jersey:**
  - New regional truck flows of manufactured product from UPS locations to the north and west of the state replacing truck flows from other locations, and initially moving in small volumes
  - Printers are not proprietary to UPS and can be expected to be installed elsewhere in the region, supporting various forms of low volume production
- **Longer term 3D printing:**
  - substitutes local traffic for interregional traffic
  - can stimulate new kinds of manufacturing activity with lower capital costs and viability in more and different locations



# UPCOMING TASKS

- **Plan Writing**
- **FAC reviews**
- **Next Meeting**



**THANK YOU**

***Paul Truban***

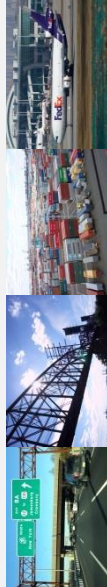
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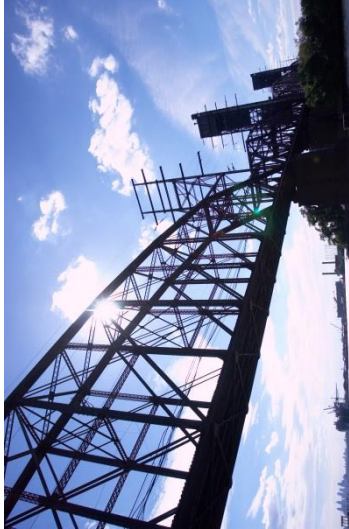
# FAC MEETING #6

15 SEPTEMBER 2017





# New Jersey Freight Advisory Committee



# TODAYS AGENDA

- **Introductions**
- **Project Status Updates - Deliverables**
- **Rail Update – Priority Locations**
- **Highway Update – Priority Locations**
- **Investment Plan**
- **Next Updates**



# PROJECT STATUS UPDATE

- **Input from FAC on Draft Chapters 1-6 Received**
- **Draft Chapters to FAC**
  - **Chapter 7: Investment Plan – Next Week**
- **Draft Freight Plan to FHWA by September 30**
- **Final Freight Plan to FHWA by December 4**



# **RAIL UPDATE – PRIORITY LOCATIONS (CRITERIA)**

- **Criteria derived from previously-adopted statewide rail plans, with modified emphasis from FAC input**
  - **Maintain state of good repair**
  - **Preserve out of service and at-risk rail rights of way**
  - **Protect critical corridors and connections to the national network**
  - **Enhance intermodal connectivity**
  - **Improve quality of life**
  - **Enhance connectivity between Class I, regional and short line railroads**



# **RAIL UPDATE – PRIORITY LOCATIONS (CRITERIA)**

- **Criteria derived from previously-adopted statewide rail plans, with modified emphasis from FAC input**
  - **Ensure adequate yard capacity**
  - **Maintain and expand funding programs and opportunities**
  - **Maintain or expand system redundancy**
  - **Reduce congestion and enhance operational efficiency**
  - **Maintain or enhance economic development opportunities**
  - **Support retention, attraction and growth of rail-served industries within New Jersey**
  - **Expand public education and support**



# RAIL UPDATE – PRIORITY LOCATIONS (EVAL. PROCESS)

- **Locations were grouped based on functionality**
  - Each location scored individually within the group
  - Each project has independent utility, with other projects in the grouping supporting and enhancing its value
  - Indicates which project is the critical path to resolving an issue when multiple factors together contribute to the deficiency
- **Each location considered against the 13 criteria:**
  - **Detrimental: negative**
  - **Not Applicable: zero**
  - **Moderately Supportive: positive**
  - **Highly supportive: positive, greater than “moderately supporting”**



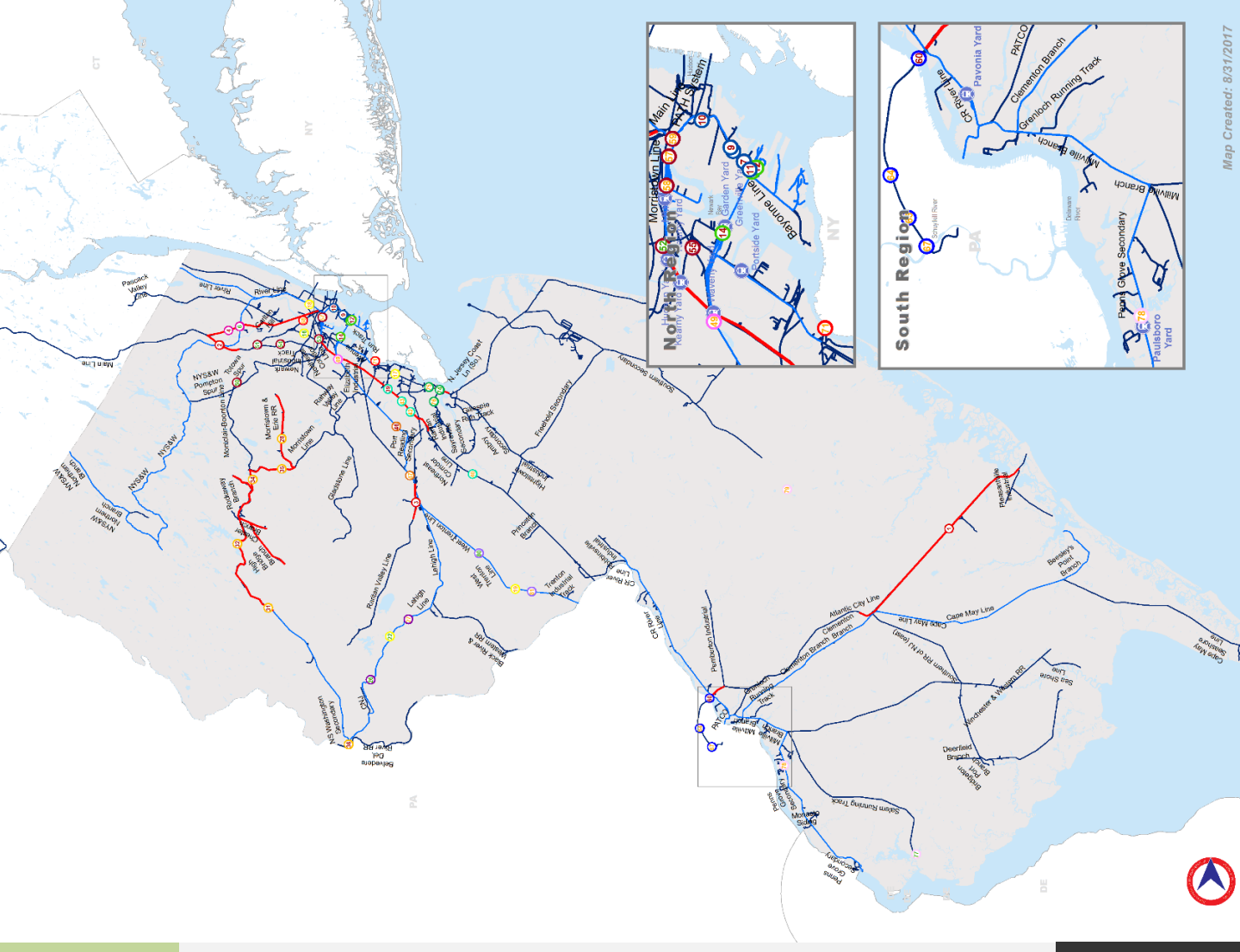
# RAIL UPDATE – PRIORITY LOCATIONS (EVAL. PROCESS)

Objective	SAMPLE PROJECT			
	Highly Supportive	Moderately Supportive	Not Applicable	Detrimental
Maintain state of good repair	Y			
Preserve out of service and at-risk rail rights of way	Y			
Protect critical corridors and connections to the national network	Y			
Enhance intermodal connectivity			Y	
Improve quality of life		Y		
Enhance connectivity between Class I, regional and short line railroads		Y		
Ensure adequate yard capacity			Y	
Maintain and expand funding programs and opportunities		Y		
Maintain or expand system redundancy			Y	
Reduce congestion and enhance operational efficiency	Y			
Maintain or enhance economic development opportunities	Y			
Support retention, attraction and growth rail-served industries within New Jersey	Y			
Expand public education and support			Y	



# RAIL PRIORITY LOCATIONS

- Scoring results aligned with input from the FAC
  - Projects supporting intermodal port activity ranked very high
  - Capacity and clearance projects along critical corridors and alternate routes ranked high and moderate
  - Projects affecting single customers (grade crossings/siding/etc.) ranked lower



## Freight Rail Priority



Rail Yard

Rail Line Need for Upgrade to 286K Identified

Rail Line Capable of Handling 286K

Rail Line Restricted to 263K

## Identified Rail Issues

High Priority

Medium Priority

Low Priority





# RAIL HIGH PRIORITY LOCATIONS

Project Listing	Name of Constraint	Line Name	Grouping
14	Capacity Constraints - Support Tracks Required (up to 4 between Upper Bay & CP Arden) to pass trains from increased Greenville Yard traffic	Oak Island Yard	GREENVILLE
18	Limited Capacity on River Line	CSX River Line	INDIVIDUAL
24	Capacity Constraints on Lehigh Line between CP Aldene and NK	Lehigh Line	LEHIGH
25	Capacity Constraints Lehigh Line (CP Aldene to Manville)	Lehigh Line	LEHIGH
26	Capacity Constraints through Musconetcong Tunnel	Lehigh Line	LEHIGH
27	Capacity Constraints Lehigh Line (Manville to Phillipsburg)	Lehigh Line	LEHIGH
28	286k Request	Whippany Line	MORRISCO 286
29	Grand Avenue Bridge	Morristown Line	MORRISCO 286
30	Cattle Pass Bridge	Morristown Line	MORRISCO 286
31	Drain Bridge	Morristown Line	MORRISCO 286
32	Shippenport Road Bridge	Morristown Line	MORRISCO 286
33	Bridge over Mill Brook	Morristown Line	MORRISCO 286
34	Bridge over Franklin Road	Morristown Line	MORRISCO 286
35	East Hanover Avenue Bridge	Morristown Line	MORRISCO 286
36	South Main Street Bridge	Washington Secondary	MORRISCO 286
39	286k Limitations on NEC	Northeast Corridor	NEC IMPROVEMENTS
41	Capacity constraint on NEC - Sawtooth Bridge	Northeast Corridor	NEC IMPROVEMENTS
42	State of Good Repair from Trenton to NYC	Northeast Corridor	NEC IMPROVEMENTS
56	Capacity Constraints at Marion Junction, Single Tracks on P&H and National Docks	CSX River Line	P&H
60	Vertical Clearance Restrictions on Delair Bridge	Delair Branch	PA-NJ-1



# RAIL MODERATE PRIORITY LOCATIONS

Project Listing	Name of Constraint	Line Name	Grouping
1	286k Request	Atlantic City Line	286K
2	286k Request	Main Line	286K
3	286k Request	Raritan Valley Line	286K
4	286k Request	Bergen County Line	BERCO 286
5	HX Draw Bridge 286k	Bergen County Line	BERCO 286
7	Capacity Constraints - 3rd Track Upgrade bet CP Bay & CP Green	National Docks Secondary	DOCKS
8	8000' Controlled Siding	National Docks Secondary	DOCKS
9	Controlled Siding Extension	National Docks Secondary	DOCKS
10	Capacity Constraints - 10,300' Controlled Siding with 8,200' clear capacity	National Docks Secondary	DOCKS
11	Capacity Constraints CP Green to Linden Ave Second Track	National Docks Secondary	DOCKS
12	Capacity Constraints with increase Port Volume - Greenville Yard Redevelopment	Greenville Yard	GREENVILLE
13	No Northward Connection Between National Docks and Greenville Yard	National Docks Secondary, Greenville Yard to Upper Bay	GREENVILLE
17	Rahway River Bridge	Garden State Secondary (formerly Chemical Coast)	INDIVIDUAL
19	Limited Capacity on West Trenton Line	West Trenton Line	INDIVIDUAL
40	Capacity and Operation Constraints on the Mid-Line Loop near North Brunswick, NJ	Northeast Corridor	NEC IMPROVEMENTS
43	Vertical Clearance on NEC	Northeast Corridor	NEC IMPROVEMENTS
44	286k Request	North Jersey Coast Line	NJCL 286
46	NJTPA Rail Freight Cap. + Needs Assessment at Grade Crossings	Multiple	NJTPA CROSSINGS
48	Oak Island Yard Capacity Constraints	Oak Island Yard	OAK
49	Waverly Loop Capacity Constraints- Double Track Connection	Oak Island Yard	OAK



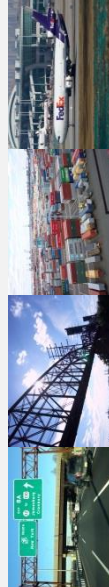
# RAIL MODERATE PRIORITY LOCATIONS

<u>Project Listing</u>	<u>Name of Constraint</u>	<u>Line Name</u>	<u>Grouping</u>
55	Capacity Constraints - 2nd Track between CP Hack to CP Kearny to handle increased traffic by Greenville Yard	Passaic & Harsimus Line	P&H
57	Harsimus Branch Lift Bridge (Hack Bridge)	Passaic & Harsimus Line	P&H
58	Kearny Yard Single Track Limitations, Rail Traffic	South Kearny Yard	P&H
59	Capacity Constraints, Single-Track Limitations	Northern Branch at Marion Junction	P&H
61	Vertical Clearance at G Street (19'10")	Delair Branch	PA-NJ-1
62	Vertical Clearance at Front Street (20'2")	Delair Branch	PA-NJ-1
63	Vertical Clearance at 2nd Street (18'8")	Delair Branch	PA-NJ-1
64	Vertical Clearance at 5th Street (19'3")	Delair Branch	PA-NJ-1
65	Vertical Clearance at Margie Street (18'10")	Delair Branch	PA-NJ-1
66	Vertical Clearance at Ridge Avenue (18'11")	Delair Branch	PA-NJ-1
67	Vertical Clearance at Cecil B. Moore Avenue (18'0")	Delair Branch	PA-NJ-1
68	Upper Hack Lift Bridge	Main Line	PORT BRIDGE
69	Lower Hack Lift Bridge	Morristown Line	PORT BRIDGE
70	Upper Bay Bridge (Lehigh Valley Drawbridge)	National Docks Secondary	PORT BRIDGE
71	Arthur Kill Lift Bridge	Staten Island Railroad	PORT BRIDGE
72	E-Rail	WJ	PORT SUPP
75	Single-Track Constraints, Lack of Connection to the Raritan Industrial Track	Garden State Secondary (formerly Chemical Coast)	RARITAN
76	286 Access to Middlesex County	Northeast Corridor	RARITAN
78	Paulsboro Wye to Port Connection	Vineland Secondary	SJPC
79	North Jersey & South Jersey Connection		SJPC
81	Capacity Constraints, Single track Limitations	CSX Trenton Line	TRENTON



# RAIL LOW PRIORITY LOCATIONS

Project Listing	Name of Constraint	Line Name	Grouping
6	Belden Brick Crossing	Bergen County Line	BERCO 286
15	DB Draw Bridge (inactive but maintained)	Boonton Line	INDIVIDUAL
16	Harrison Industrial Track	Harrison I.T.	INDIVIDUAL
20	Croxton Yard	Nave-Croxton R.T.	INDIVIDUAL
21	Landsdown Wye	Lehigh Line	INDIVIDUAL
22	Bridge Ballast (LE57.1 and 57.17)	Lehigh Line	INDIVIDUAL
23	Crash Beam at LE 36.4 Bridge	Lehigh Line	INDIVIDUAL
37	Engine Track Ramp Extension	Nave-Croxton R.T.	NAVE
38	Limited Track Storage	Nave-Croxton R.T.	NAVE
45	Raritan Bay Drawbridge (River Draw)	North Jersey Coast Line	NJCL 286
47	Raritan Valley & Lehigh Line Separation	Lehigh Line	NJTPA CROSSINGS
50	West Belt Parkway Crossing	Totowa Spur	OTHER CROSSINGS
51	Crooks Avenue Crossing	Passaic Spur	OTHER CROSSINGS
52	Bunge Oil Crossing	Harrison I.T.	OTHER CROSSINGS
53	Bunge Oil Lead	Harrison I.T.	OTHER CROSSINGS
54	Highfield Lane Crossing	Newark I.T.	OTHER CROSSINGS
73	Positive Train Control	Network	PTC
74	Vertical Clearance Issues in Perth Amboy	Garden State Secondary (formerly Chemical Coast)	RARITAN
77	286k Restrictions & Needed repairs	Salem Running Track	SJPC
80	Rail Crossing at Route 601	CSX Trenton Line	TRENTON



# HIGHWAY UPDATE - PRIORITY LOCATIONS

- Finalized CUFC Recommendations to meet 75 mile cap
- Removed 43 segments from CUFC-eligible list
- The “removed” segments remain priority locations within the plan

<u>Region - Removed</u>	<u>Locations</u>	<u>Mileage</u>
NJTPA	28	17.00
DVRPC	8	6.85
SJTPO	7	2.66

<u>Region - CUFC</u>	<u>Locations</u>	<u>Mileage</u>
NJTPA	62	36.25
DVRPC	30	25.23
SJTPO	9	13.49



# PLANNING PROJECTS TO BE ADVANCED

- Not currently part of the Investment Plan
- Require TIP amendment to shift NHFP funding from current allocations
- Four initial projects identified:
  - North-South Rail Connector
  - FRI0 Concept Development: HX Draw Bridge (286k)
  - I-295 Interchanges
  - NJ 55 at NJ 47 Interchange



# INVESTMENT PLAN

- **10 year Statewide Transportation Improvement Program (STIP)**
  - **guides transportation investments for state**
- **First four years fiscally constrained**
- **Funding sources:**
  - **Federal funding (FHWA and FTA)**
  - **State funding (TTF)**
  - **Other**



# INVESTMENT PLAN – FEDERAL FUNDING

- TIGER & INFRA grants
- National Highway Performance Program (NHPP)
- National Highway Freight Program (NHFP)
- Surface Transportation Program (STP)/ Surface Transportation Block Grant Program (STBGP)
- Congestion Mitigation and Air Quality Improvement Program (CMAQ)





# NATIONAL HIGHWAY FREIGHT PROGRAM (NHFP)

- Newly established by FAST Act
- Project must contribute to the efficient movement of freight and be identified in the state's freight investment plan
- States may use up to 10% each year for public or private freight rail, water facilities (including ports), and intermodal facilities
- In FY16 NJ was granted \$30M, FY 2017 \$27.5M through the NHFP
  - Highway: Route 295/42/I-76, Direct Connection
  - Rail: Penns Grove Secondary Siding Installation
  - Rail: Replacement of Bridge 3.08 in ConRail Passaic and Harsimus (P&H) line



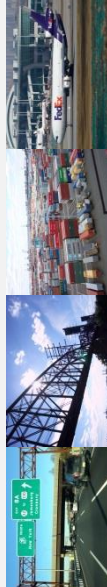
# INVESTMENT PLAN – STATE FUNDING

- **Transportation Trust Fund**
- **Local Aid**
  - Municipal Aid
  - County Aid
  - Local Bridges Fund
  - Local Freight Impact Fund
  - Local Aid Infrastructure Fund
  - Transportation Infrastructure Bank Fund



# USE OF FUNDS

- **Infrastructure preservation – roads, bridges, and intermodal assets. Includes highway resurfacing, rehab, or reconstruction; bridge rehab or replacement**
- **Mobility and congestion relief - operational improvements, major widenings, removing bottlenecks, ITS and missing link projects**
- **Safety management - vehicle conflicts, weaving, acceleration/deceleration lanes, intersection improvements, bicycle and pedestrian improvements**



# CURRENT PRIORITY LOCATION STIP PROJECTS - DVRPC

<u>County</u>	<u>DBNUM</u>	<u>Route</u>	<u>Project name</u>	<u>Project Type</u>
Burlington	12415	130	Route 130, Charleston Road / Cooper Street (CR 630) to Crafts Creek	Pavement
Burlington	12346A	130	Route 130, CR 545 (Farnsworth Avenue)	Safety
Camden	11326A	76	Route 76, Bridges over Route 130	Bridge
Camden	355D	295	Route 295/42/I-76, Direct Connection, Contract 3	Bottleneck
Camden	355E	295	Route 295/42/I-76, Direct Connection, Contract 4	ITS
Camden	14322	676	Route 676, Bridges over North Branch of Newton Creek	Bridge
Camden		676	Bridge Deck Resurfacing	Pavement
Camden		676	Replace Moveable Barrier	Bridge
Camden		676	Masonry Rehabilitation	Bridge
Camden		676	Tower Expansion Joint Rehabilitation	Bridge
Camden	11326	76/676	Route 76/676 Bridge Deck Replacements	Bridge
Camden	D0902	River Rd	River Road Improvements, Cramer Hill	Operations
Camden	11326A	76	Route 76, Bridges over Route 130	Bridge
Camden, Gloucester	355A	42	Route 295/42, Missing Moves, Bellmawr	Operations
Camden, Gloucester	14426	130	Route 130, Bridge over Big Timber Creek	Bridge
Gloucester	14348	45	Route 45, Bridge over Woodbury Creek	Bridge
Gloucester	12305	47	Route 47, Grove St. to Route 130, Pavement	Pavement
Gloucester	N1709	rail	Replacement of Bridge 3.08 in ConRail Passaic and Harsimus (P&H) line	Rail
Gloucester, Camden	11371	47	Route 47, Bridge over Big Timber Creek	Bridge
Gloucester, Salem	14363	45	Route 45, Main Street (CR672) to Chestnut Street	Pavement
Mercer	12406	1	Route 1, CR 533 (Quakerbridge Road) to Ridge Road	Pavement
Mercer	17419	1	Route 1, Alexander Road to Mapleton Road	Bottleneck
Mercer	01330A	1	Route 1, Southbound, Nassau Park Boulevard to Quaker Bridge Mall Overpass	Safety
Mercer	08355	31	Route 31, Bridge over CSX Railroad	Bridge
Mercer	12401	31	Route 31, Bull Run Road to Branch of Stoney Brook	Pavement



# CURRENT PRIORITY LOCATION STIP PROJECTS - NJTPA

County	DBNUM	Route	Project name	Project Type
Bergen	11357	17	Route 17, Sprout Brook, Culvert Replacement	Bridge
Bergen	14319	17	Route 17, Bridges over NYS&W RR & RR Spur & Central Avenue (CR 44)	Bridge
Bergen	12428	46	Route 46, Bergen Boulevard to Route 124 (Bergen Turnpike)	Pavement
Bergen	065C	4	Route 4, Bridge over Palisade Avenue, Windsor Road and CSX Railroad	Bridge
Bergen	12431B	4	Route 4, Tunbridge Road to Route 9W	Pavement
Bergen, Passaic	12431	4	Route 4, Route 20 to Route 1&9	Pavement
Essex	99381	21	Route 21, Newark Needs Analysis, Murray Street to Edison Place	Capacity
Essex	17378	rail	Penns Grove Secondary Siding Installation	Rail
Essex		I-95	Interchange 15W/ 16W Improvements	Operations
Hudson	12386	3	Route 3 & Route 495 Interchange	Bridge
Hudson	93186	7	Route 7, Kearny, Drainage Improvements	Drainage
Hudson	N1301	440	Route 440, Bayonne Bridge Navigational Clearance Project	Bridge
Hudson	06373	495	Route 495, Route 1&9/ Paterson Plank Road Bridge	Bridge
Hudson	97005B	659	Portway, Fish House Road/ Pennsylvania Avenue, CR 659	Pavement
Hunterdon	11353	173	Route 173, Musconetcong River, Culvert Replacement	Bridge
Middlesex	079A	9	Route 9/35, Main Street Interchange	Bottleneck
Middlesex	12434	27	Route 27, Bridge Street (CR 669) to Frederic Street	Pavement
Middlesex	9169R	287	Route 287, River Road (CR 622), Interchange Improvements	Operations
Middlesex	14355	440	Route 440, CR514 (Woodbridge Avenue) to Kreil Avenue	Pavement
Middlesex, Somerset	9169Q	287	Route 287, Interchange 10 Ramp Improvements	Operations
Middlesex, Union	10316A	27	Route 27 ADA Ramps, Evergreen St to Elizabeth River	Safety
Monmouth	12308	35	Route 35, North of Lincoln Dr to Navesink River Bridge	Pavement
Morris	93139	80	Route 80, Route 15 Interchange	Bottleneck
Ocean	11418	9	Route 9, Indian Head Road to Central Ave/ Hurley Ave, Pavement	Pavement
Passaic	059B	3	Route 3, Route 46, Valley Road and Notch/ Rifle Camp Road Interchange, Contract B	Capacity
Passaic	06366C	46	Route 46, Route 23 (Pompton Avenue) to Route 20, ITS	ITS



# CURRENT PRIORITY LOCATION STIP PROJECTS - NJTPA

<u>County</u>	<u>DBNUM</u>	<u>Route</u>	<u>Project name</u>	<u>Project Type</u>
Passaic	11341	80	Route 80 EB, Fairfield Road (CR 679) to Route 19	Pavement
Passaic	17316	80	Route 80, Bridge over Passaic River, Riverview Drive & Mc Bride Avenue	Bridge
Passiac, Bergen	11415	80	Route 80 WB, McBride Avenue (CR 639) to Polify Road (CR 55)	Pavement
Passiac, Essex	9233B6	80	Route 23, Route 80 and Route 46 Interchange	Capacity
Somerset	14356	22	Route 22, Commons Way to Route 287	Pavement
Somerset			Route 206 Bypass, Mountain View Road to Old Somerville Road (Sections 14A & 15A) Contract B	Capacity
Somerset	779	206	Route 206, Valley Road to Brown Avenue	Capacity
Somerset	780A	206	Route 206, Doctors Way to Valley Road	Capacity
Somerset	780B	206	Route 206, Doctors Way to Valley Road	Capacity
Somerset	04389	287	Route 287/78, I-287/202/206 Interchange Improvements	Bottleneck
Sussex	10333	206	Route 206, South of Paterson Ave. to South of Pine Rd	Pavement
Union	658C	22	Route 22, Bloy Street to Liberty Avenue	Bridge
Union	12311	1/9	Route 1&9, Avenue C to Sylvan Street	Safety
Union	95023	1/9	Route 1&9, Interchange at Route I-278	Capacity
Union, Essex	15371	27	Route 27, Dehart Place to Route 21	Pavement
Warren	09320	173	Route 173, Bridge over Pohatcong Creek	Bridge
Mercer, Middlesex	11309	130	Route 130, Westfield Ave. to Main Street	Pavement



# CURRENT PRIORITY LOCATION STIP PROJECTS - SJTPO

<u>County</u>	<u>DBNUM</u>	<u>Route</u>	<u>Project name</u>	<u>Project Type</u>
Cumberland	11343A	55	Route 55, SB Schooner Landing Road to Sherman Avenue	Pavement
Salem	04308	40	Route 40, Woodstown Intersection Improvements	Safety



# UPCOMING TASKS

- **Finalize draft document – deliver to FHWA by September 30<sup>th</sup>**
- **Address FHWA comments prior to delivery of final document by December 4<sup>th</sup>**
- **Collaboration between NJDOT/MPOs to advance TIP amendments**





**THANK YOU**

***Paul Truban***

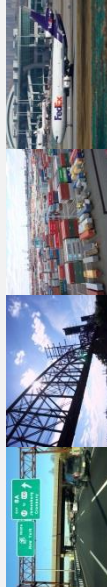
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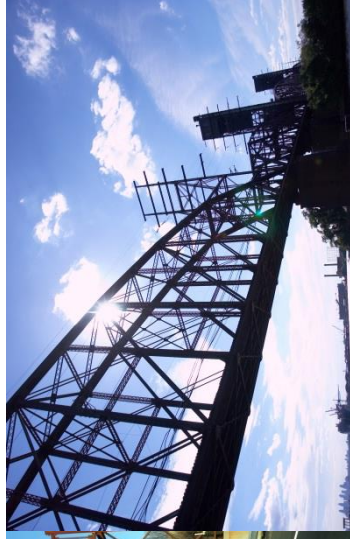


# SUBREGIONS WEBINAR

13 JUNE 2017



# New Jersey Statewide Freight Plan Update



# TODAYS AGENDA

- **Overview of the Freight Plan**
- **Presentation of the Freight Network**
- **NJ Freight Performance**
- **Additional Freight Topics**
- **Next Steps**



# NEW JERSEY STATEWIDE FREIGHT PLAN

- **Goods Movement in and through NJ is**
  - **Significant**
  - **Critical to the NJ and national economy**
  - **Dynamic**
  - **Multimodal**
  - **Multi - agency**

**“Transportation system is the game board on which the NJ economy plays”**

**-J. Lettiere**



# PURPOSE OF THE NEW JERSEY STATEWIDE FREIGHT PLAN

- Document the existing multimodal freight transportation system and Identify:
  - Significant freight transportation trends and implications
  - Current and near term safety issues
  - Desirable intermodal freight connections
  - Freight mobility issues, such as truck bottlenecks and truck parking, and describe the strategies to address them





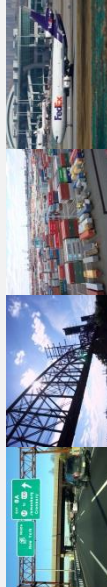
# FUNDING

- **FAST Act NJ Funding – required to be in NJ Freight Plan**
  - \$159M – National Freight Program
  - \$4.5B nationally for discretionary freight focused grant program
- **Other projects important to NJ goods movement will be included to foster collaboration among agencies/owners**
- **Local Freight Impact Fund (LFI) has been funded at \$28 million per year. While not in this plan, the application process for these local last mile freight projects is under development by NJDOT.**



# FUNDING – ADDITIONAL OPPORTUNITIES

- TIGER
- American Recovery and Reinvestment Act (ARRA) of 2009
- Local Lead
- Transportation Enhancements
- Emergency Relief Program
- Transportation Alternatives
- Local Safety/High Risk Rural Roads
- CMAQ Program
- Surface Transportation Block Grant Program
- National Highway Performance Program (NHPP)
- Airport Improvement Program (AIP)
- U.S. Department of Commerce, Economic Dev. Administration
- U.S. Department of Agriculture, Rural Development
- U.S. Environmental Protection Agency, Brownfields Cleanup and Redevelopment
- FRA Section 130 Grade Crossing Program



# NEW JERSEY GOALS AND OBJECTIVES

## Strengthen Economic Competitiveness

Support existing and emerging freight-dependent businesses, maintain and enhance the State's economic competitiveness and productivity, and retain and generate New Jersey jobs by providing freight shippers and receivers with an effective, attractive multimodal freight transportation system for moving goods to, from, within, and through the State

## Improve Reliability

Improve the efficiency and reliability of goods movement across and between all modes of the freight transportation system

## Improve Safety and Security

Ensure the protection of people, cargo, and infrastructure

## Enhance System Resiliency

Improve system flexibility and the ability of the freight network and infrastructure to withstand and recover from natural disasters and other unforeseen events

## Maintain and Renew Infrastructure

Prioritize maintenance actions and strategic investments to ensure the freight transportation system is in a state of good repair and provides efficient multimodal goods movement and connectivity to national and international markets

## Support Environmental Stewardship, Local Communities, and Quality of Life

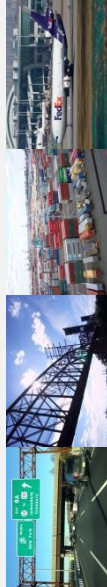
Promote freight as a good neighbor, encourage environmentally friendly and sustainable practices, and operate a freight transportation system that preserves New Jersey's natural, historic, and cultural resources and supports a high quality of life in New Jersey's local communities

## Leverage Innovative Technology and Practices

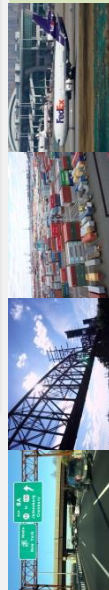
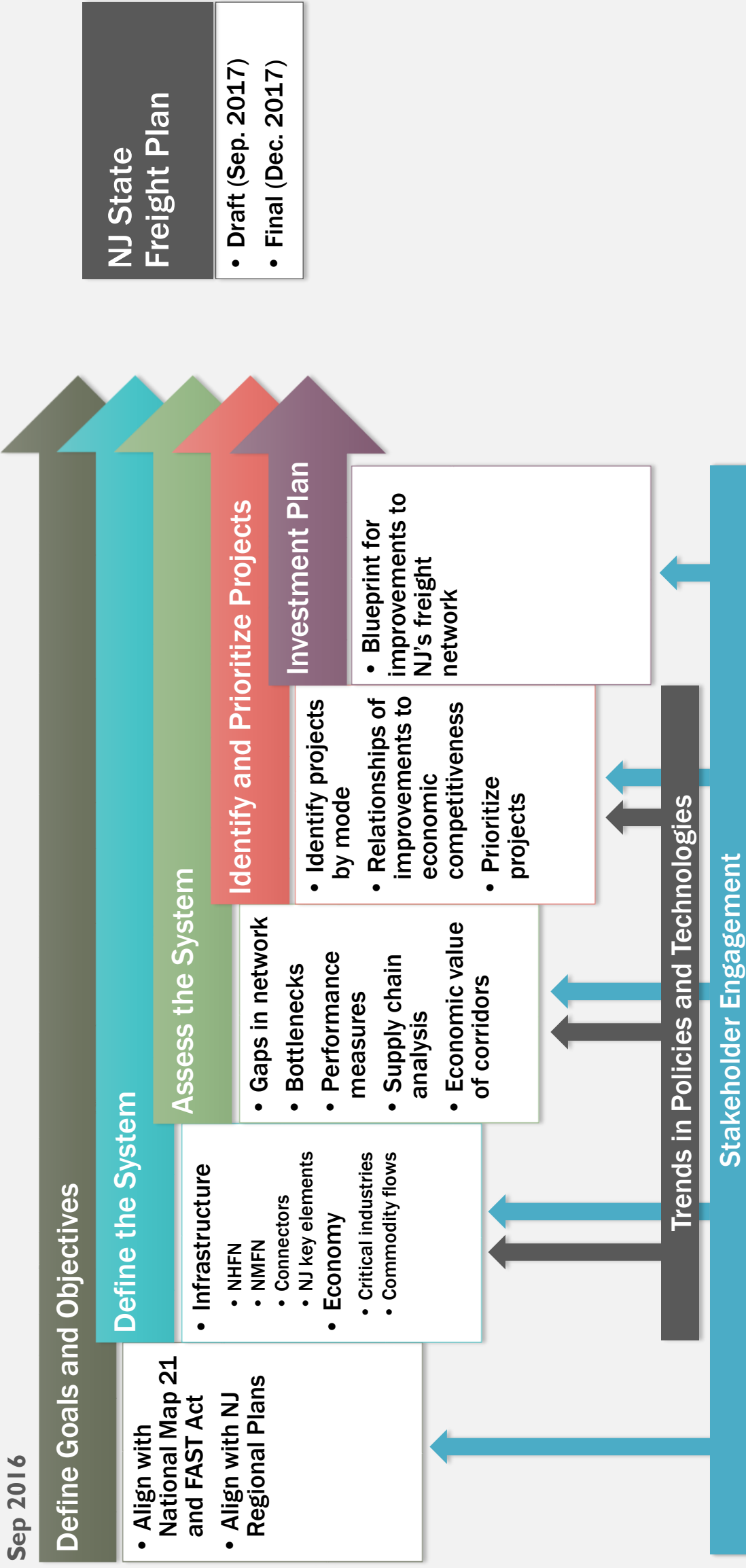
Utilize emerging, innovative technology, practices, and programs as strategies to enhance New Jersey's economic competitiveness, improve system efficiency and reliability, and reduce costs

## Facilitate Interagency Coordination and Governance

Foster cooperation, coordination, and partnerships among state, regional and local government agencies, private sector partners, and other stakeholders to promote effective investment in and operation of the freight transportation system



# NJ STATEWIDE FREIGHT PLAN SCOPE AND SCHEDULE



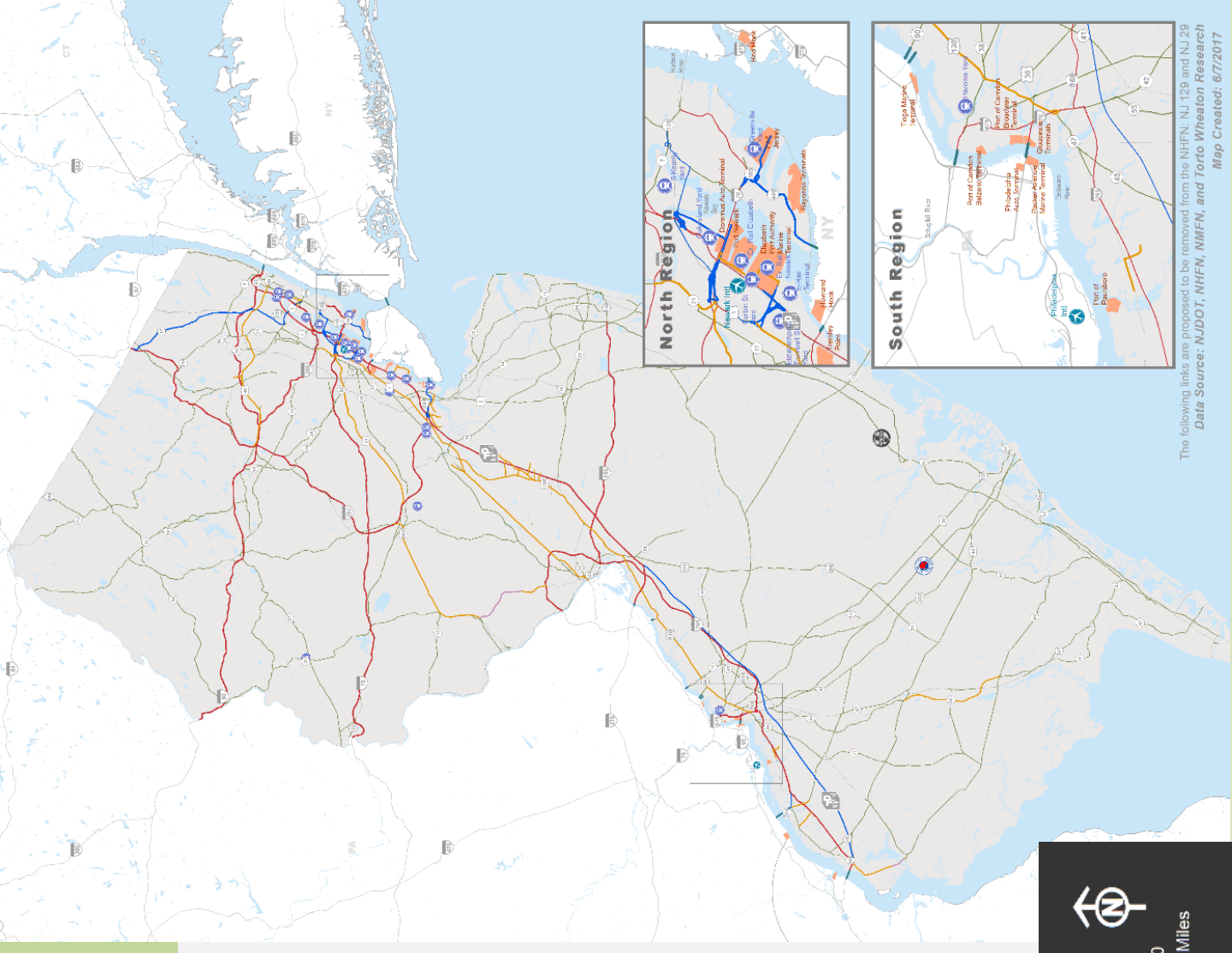
# NATIONAL HIGHWAY FREIGHT NETWORK

- **NHFN includes:**
  - **Primary Highway Freight System (PHFS):** Most critical highway portions of the U.S. freight transportation system (Interstate/Non-Interstate)
  - **Other Interstate portions not on the PHFS:** The remaining portion of Interstate roads not included in the PHFS
  - **Critical Rural or Urban Freight Corridors (CRFC or CUFC):** Public roads in non-urbanized (CRFC) or urbanized (CUFC) area which provide access and connection to the PHFS and the Interstate with other important ports, public transportation facilities, or other intermodal freight facilities. New Jersey may designate up to 75 miles of CUFC and up to 150 miles of CRFC



# MODAL NETWORKS - HIGHWAY

- **NHFN**
- **Proposed Additions (NJDOT, PANYNJ, MPOs)**
- **Additional Key Routes (NJ Access Network)**
- **CUFC/CRFC**



**Freight Highway Component**

- Airport
- NHFN Highway
- Highway (Proposed Additions)
- Bridges
- CUFC
- Rail Yard
- NJ Access Network (as defined under NJ AC 16:32)
- CRFC
- Ports (PANYNJ / SJPC)

0 5 10 20 Miles

North

The following links are proposed to be removed from the NHFN: NJ 129 and NJ 29  
Data Source: NJDOT, NHFN, NMFN, and Torto Wheaton Research  
Map Created: 6/7/2017

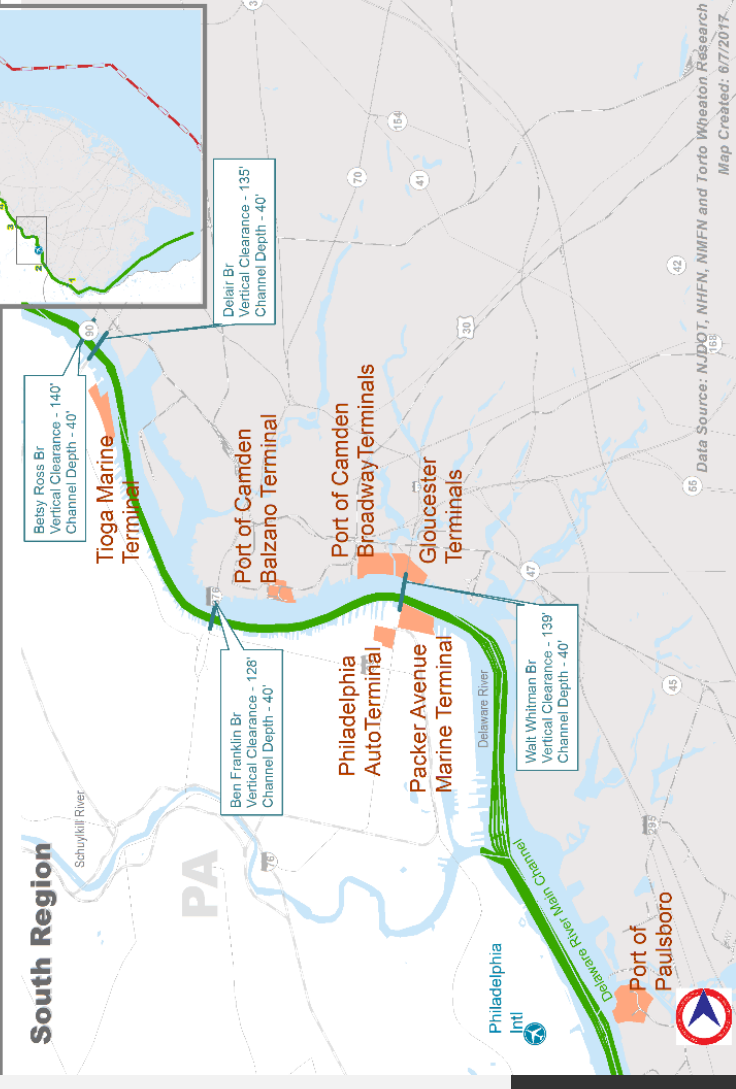
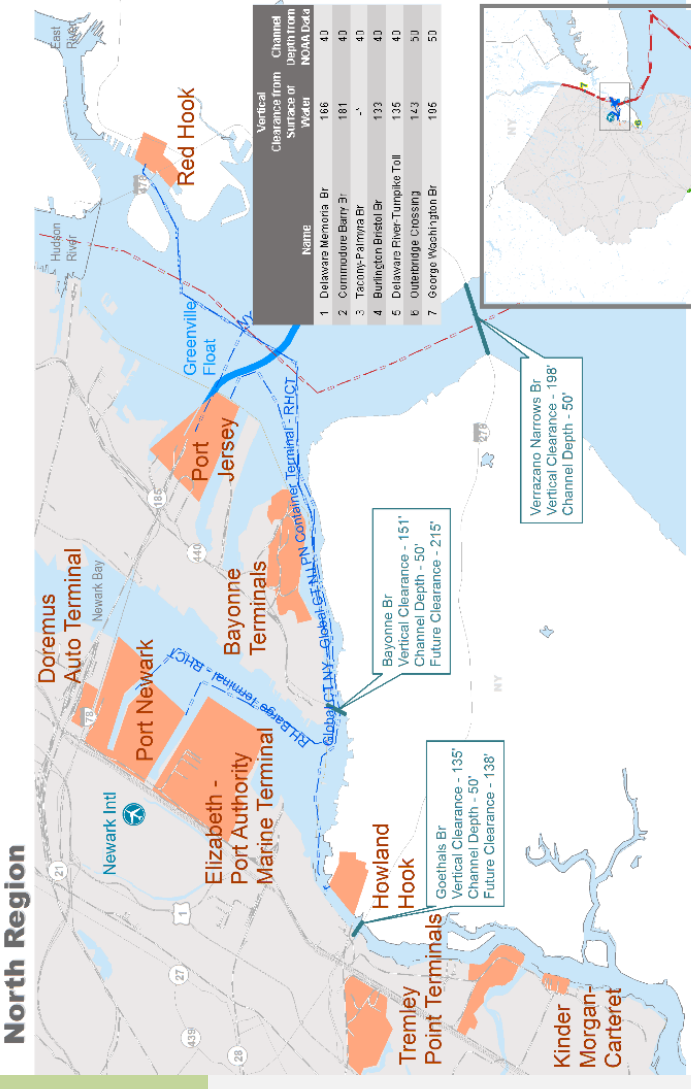
# INTERIM NATIONAL MULTIMODAL FREIGHT NETWORK

- NHFN Roadways
- Freight rail systems of Class I railroads
- U.S. public ports that have total annual foreign and domestic trade of at least 2 million short tons
- U.S. inland and intracoastal waterways
- Great Lakes, the St. Lawrence Seaway, and coastal and ocean domestic freight routes
- 50 U.S. airports with the highest annual landed weight
- Other strategic freight assets, including strategic intermodal facilities and other freight rail lines



# MODAL NETWORKS - MARITIME

- **Port Facilities**
- **NMFN Marine Highways**
- **Proposed Additions (NJDOT, PANYNJ, MPOs)**
- **Additional Key Routes**



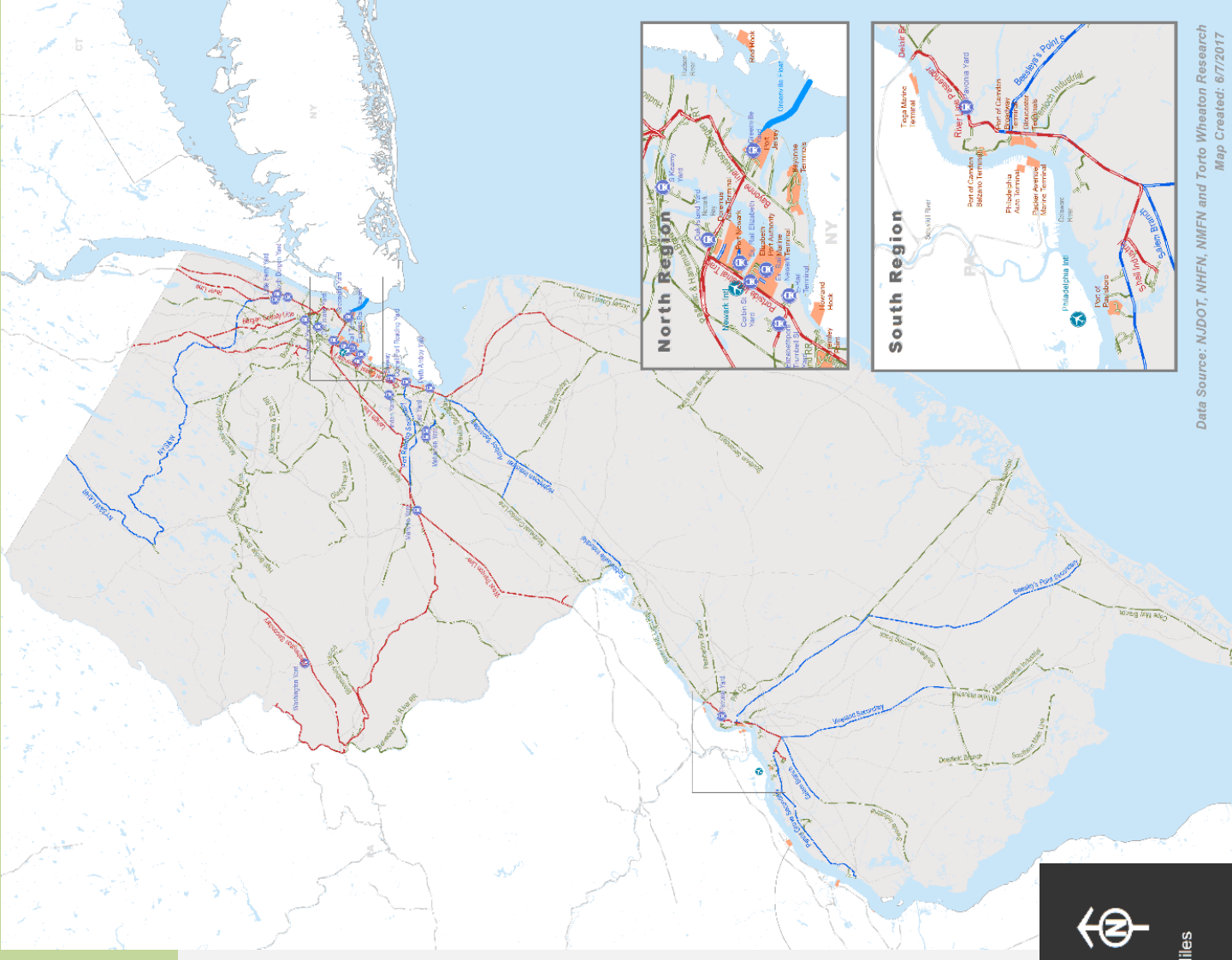
## Freight Marine Component





# MODAL NETWORKS - RAIL

- **NMFN Rail Routes**
- **Proposed Additions (NJDOT, PANYNJ, MPOs)**
- **Additional Key Routes**



## Freight Rail Component



Rail Yard

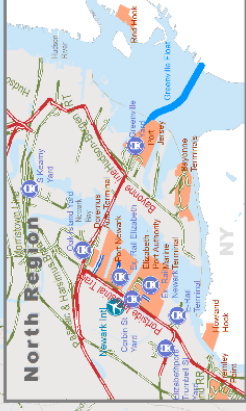
Port (PANYNJ / SJPC)



NJ Rail Network

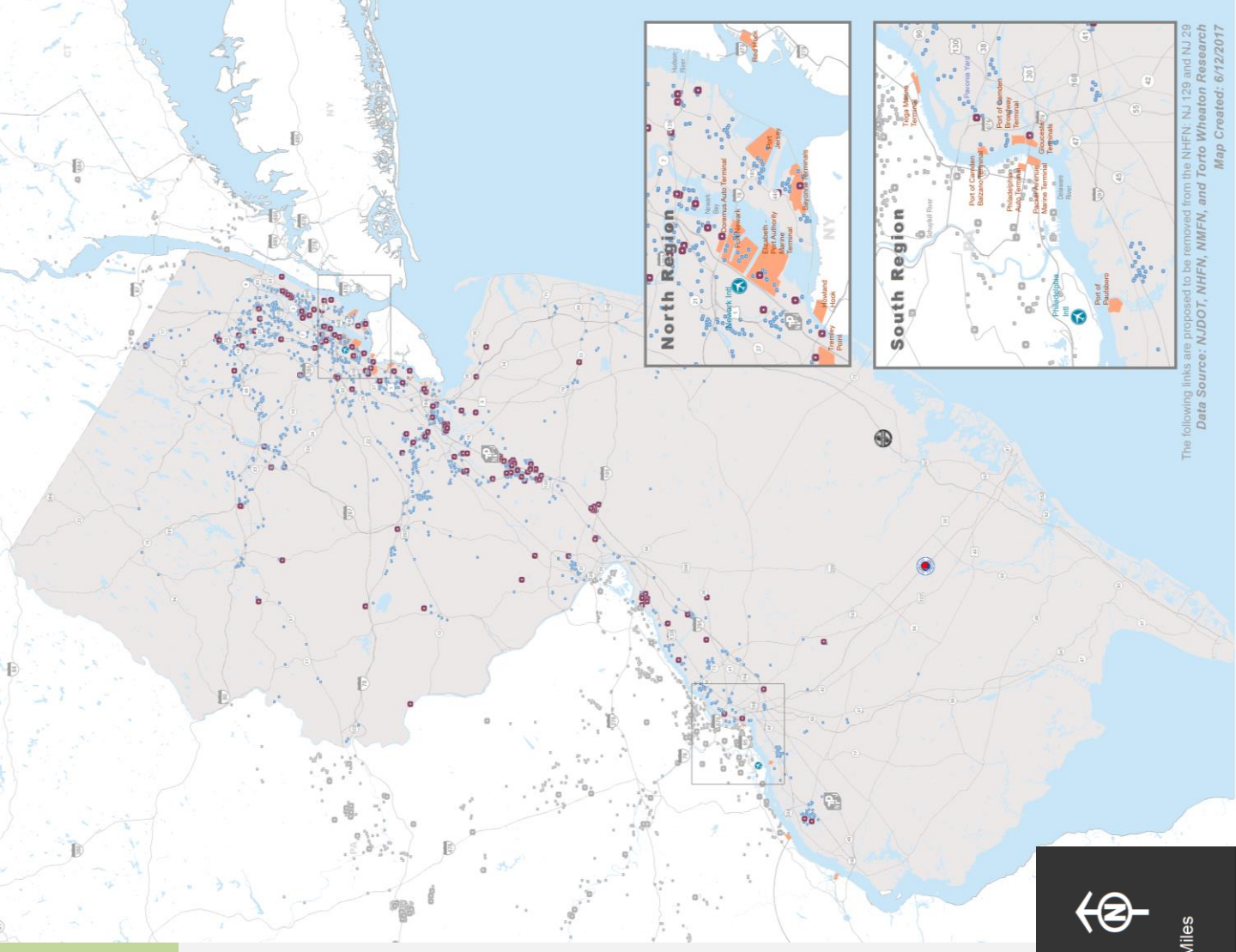


Railway (Proposed)



# FREIGHT GENERATORS

- New Jersey's Freight Operators:
- Warehousing
- Manufacturing
- Light Industrial



## Legend



Airport

Warehousing, Manufacturing,  
and Light Industrial Operations



100k to 499k



500k+



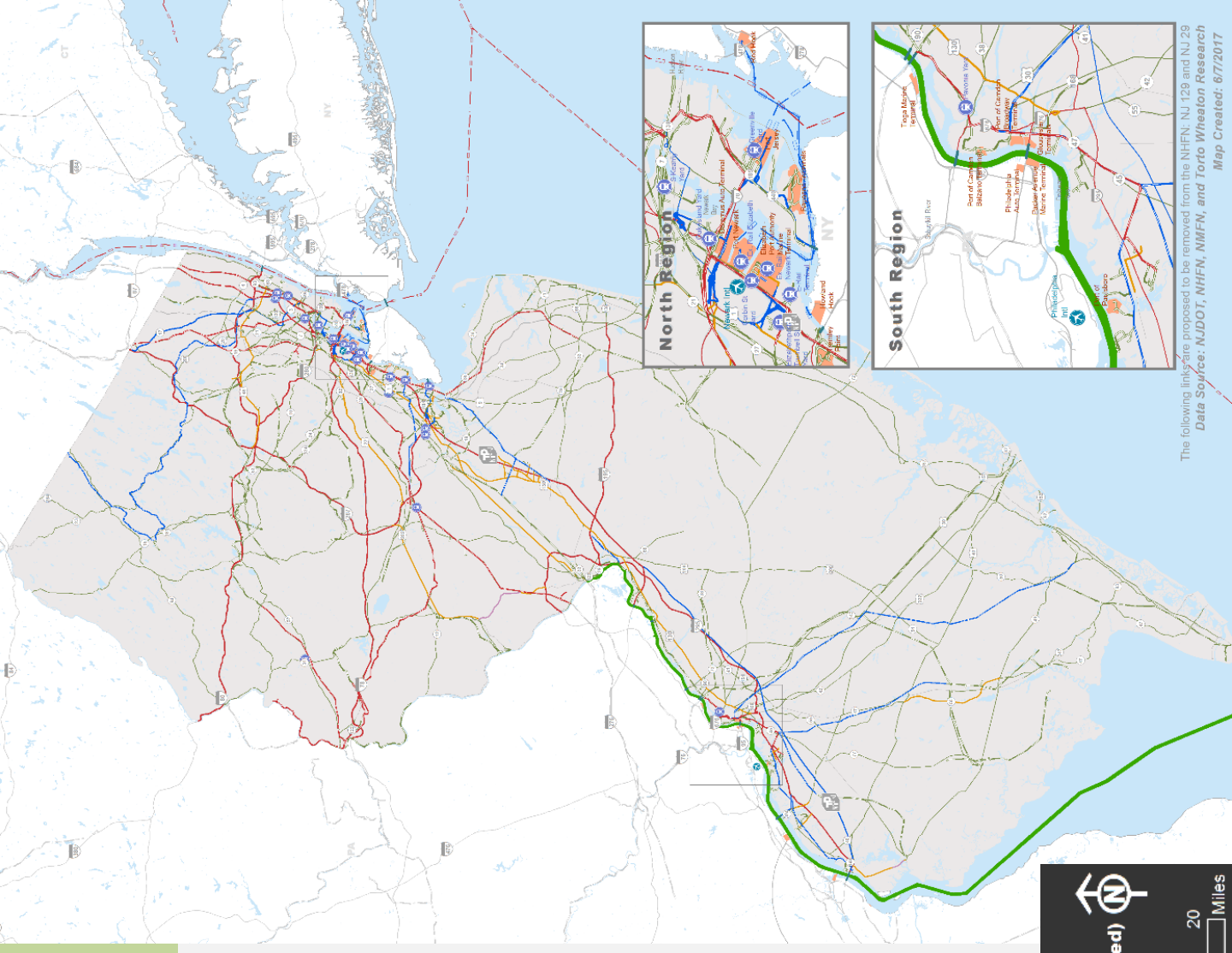
Miles

The following links are proposed to be removed from the NHRF: NJ 129 and NJ 29  
Data Source: NJDOT, NHRF, MMFN, and Torto Wheaton Research  
Map Created: 6/12/2017

# NEW JERSEY FREIGHT NETWORKS

- Interconnected and multi-modal statewide network:

- Maritime
- Rail
- Highway



The following links are proposed to be removed from the NHFN: NJ 129 and NJ 29  
Data Source: NJDOT, NHFN, MMFN, and Torto Wheaton Research  
Map Created: 6/7/2017

# GOALS OF COMMODITY FLOW ANALYSIS

- **Provide a baseline assessment of current conditions**
  - Volume (tons and value) estimates for year 2015
  - Direction, trade type, commodity class, mode
  - State-level
- **Develop future forecasts to 2045**



# DATA SOURCES

- **Primary source**
  - USDOT Freight Analysis Framework 4.3
  - 2012 base year data, projected to 2015 and 2045
- **Supplemental sources for enhancement/validation**
  - STB Public Rail Waybill (for rail)
  - USACE Waterborne Commerce of the US (for ports)
  - BTS T-100 data (for air)
  - US Census Trade Data (for international flows)
  - NJDOT 2007 Transearch (for through traffic and county shares)



# FREIGHT ANALYSIS FRAMEWORK 4.3 (FAF) ANALYSIS

- **High-level summary**
  - **State-to-state (domestic trade plus “domestic leg” of int’l trade)**
    - By direction (inbound, outbound, internal)
    - By mode (truck, rail, water, air, pipeline, multiple, other, none)
    - By origin and destination
    - By commodity class (2-digit SCTG)
  - **International trade**
  - **2015 base year and 2045 forecasts**
- **Detailed analyses (appendices to final plan document)**
  - **Commodities, modes, forecasts**



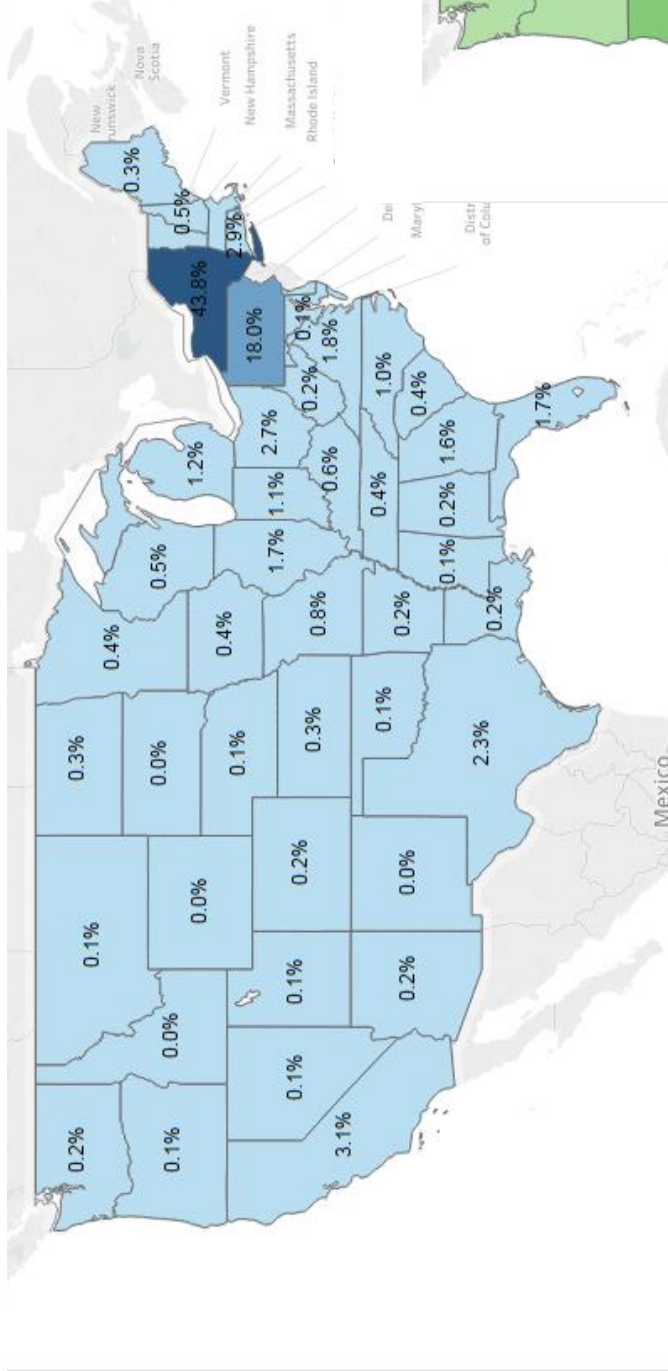
# TONS AND VALUE BY STATE-TO-STATE DIRECTION

Tons and Value by State-to-State Direction		
State-to-State Flows	Tons 2015 (M)	Value 2015 (\$M)
Internal	224.71	228,597
Outbound	136.98	424,756
Inbound	150.07	326,019
<b>Grand Total</b>	<b>511.77</b>	<b>979,371</b>

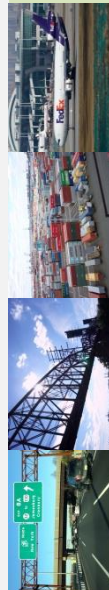
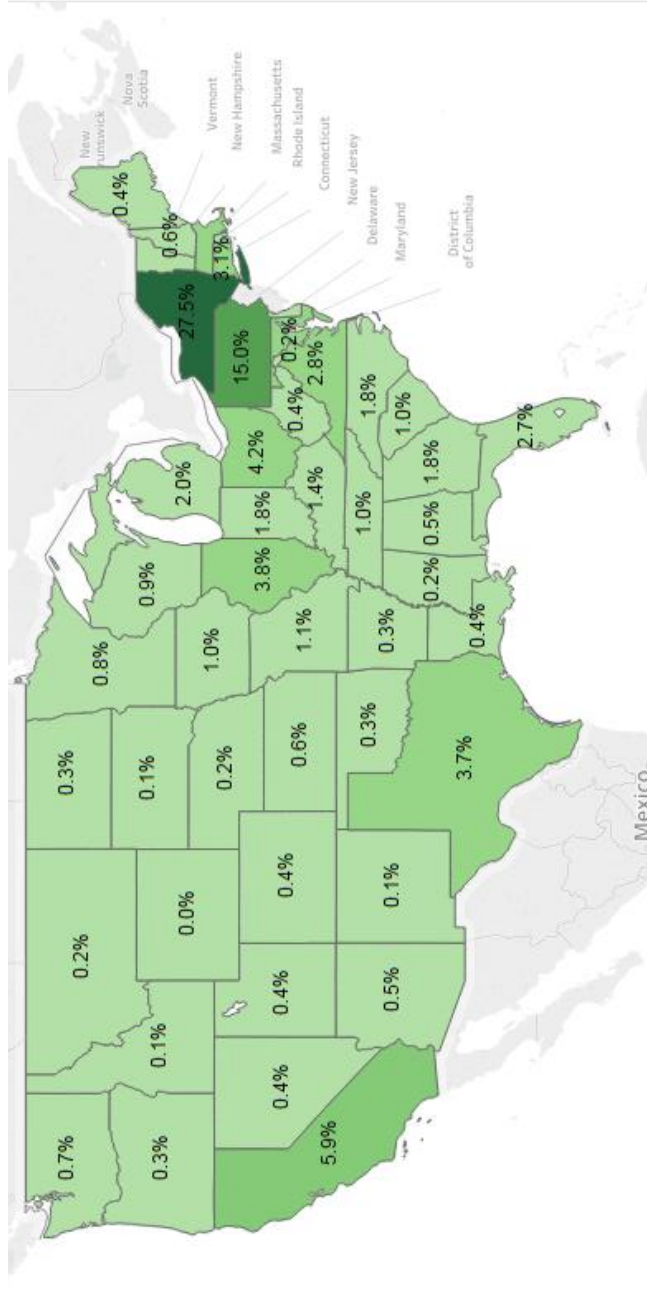


# DESTINATION STATES FOR OUTBOUND TONS AND VALUE

Destination States – Outbound Tons



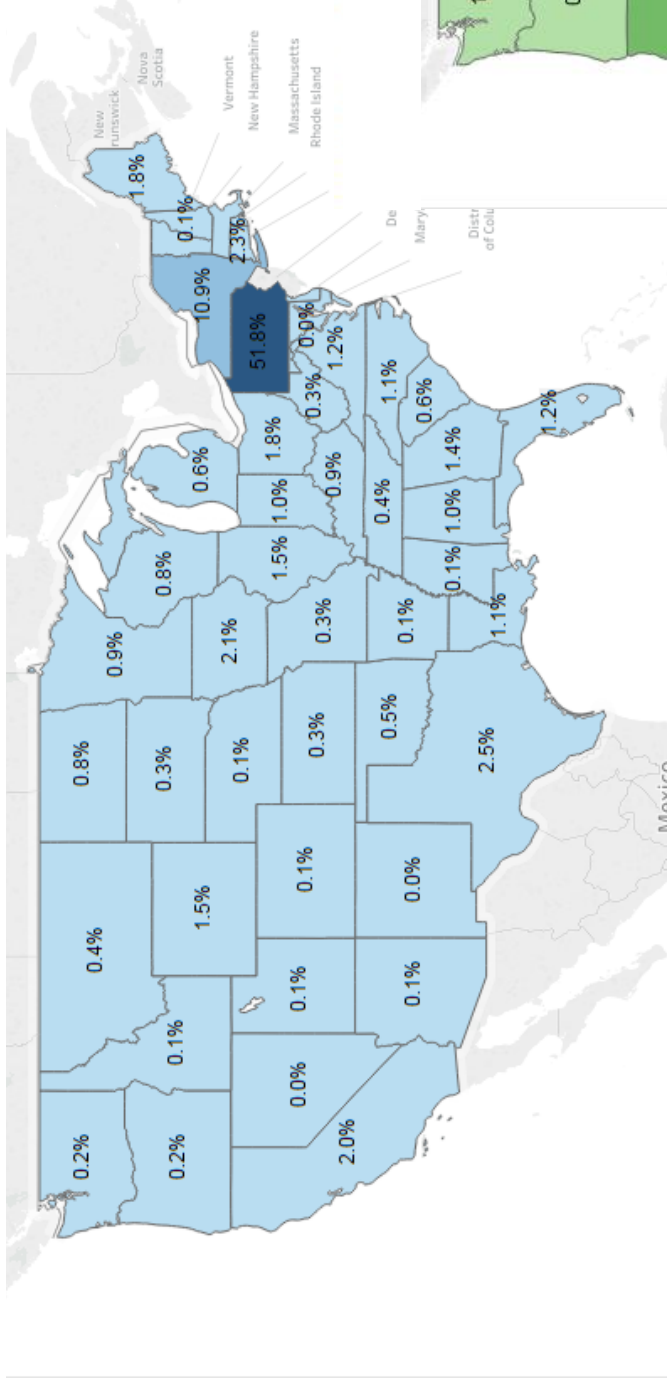
Destination States – Outbound Value



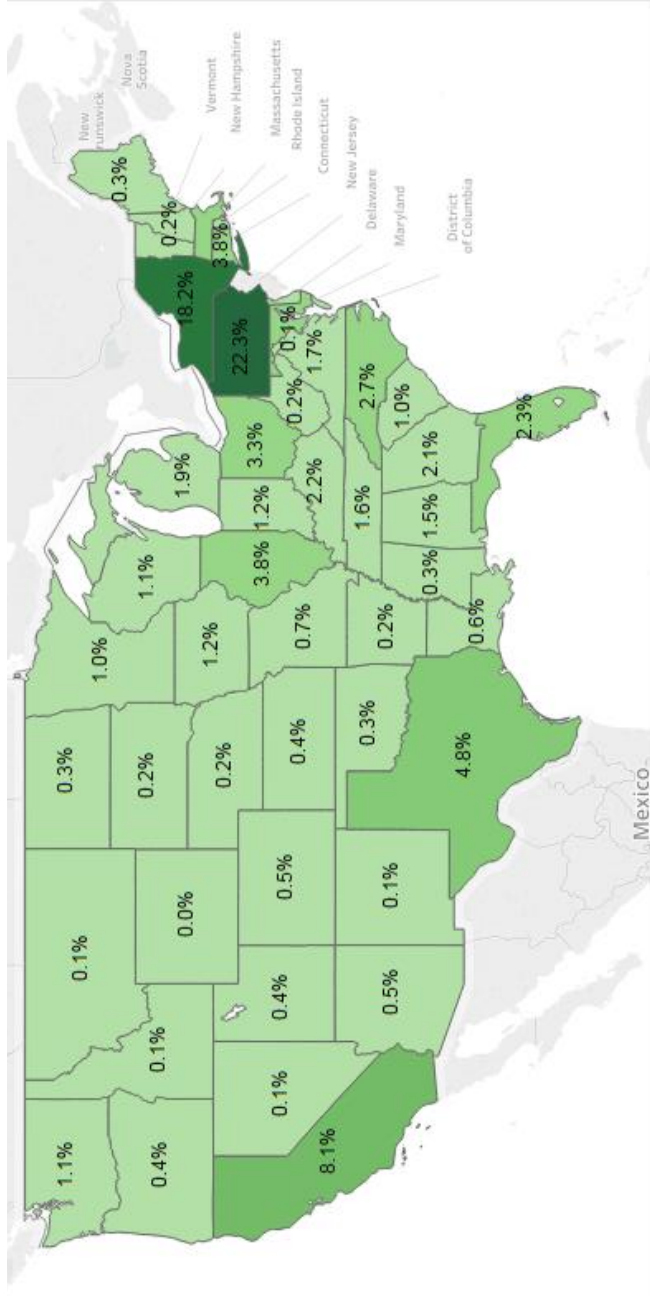


# ORIGIN STATES FOR INBOUND TONS AND VALUE

Origin States – Inbound Tons

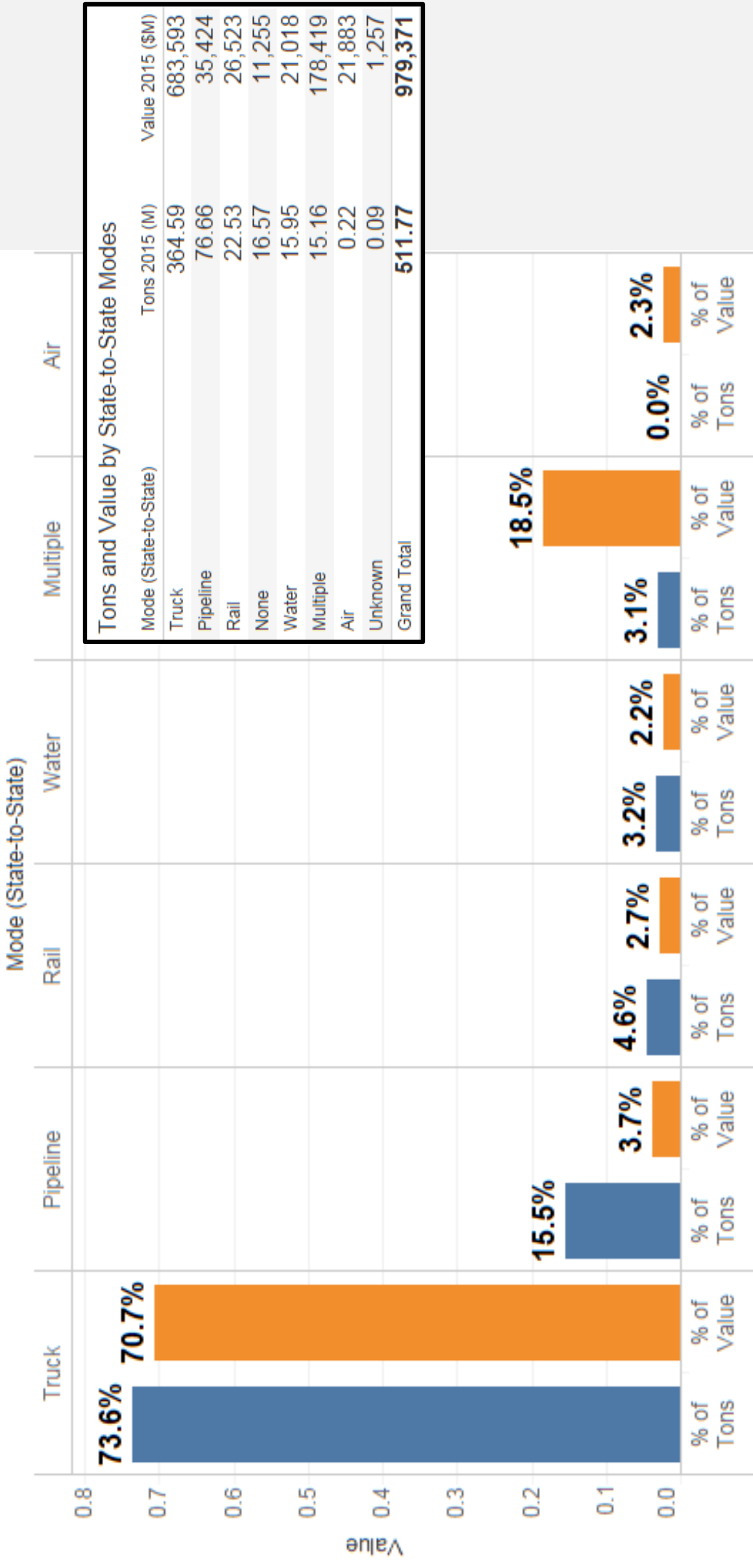


Origin States – Inbound Value



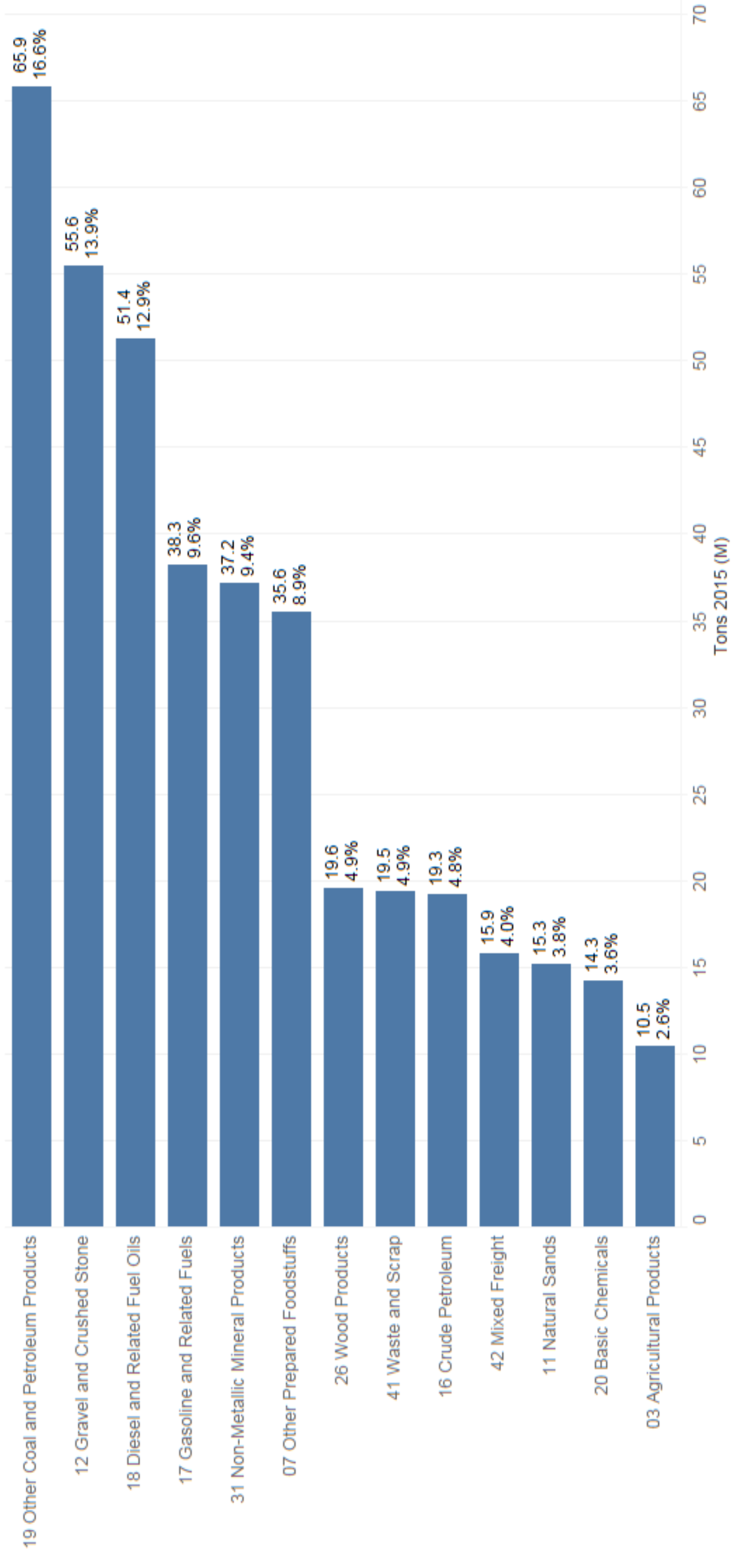
# TONS AND VALUE BY STATE-TO-STATE MODE (CONT.)

Share of Tons and Value by State-to-State Modes



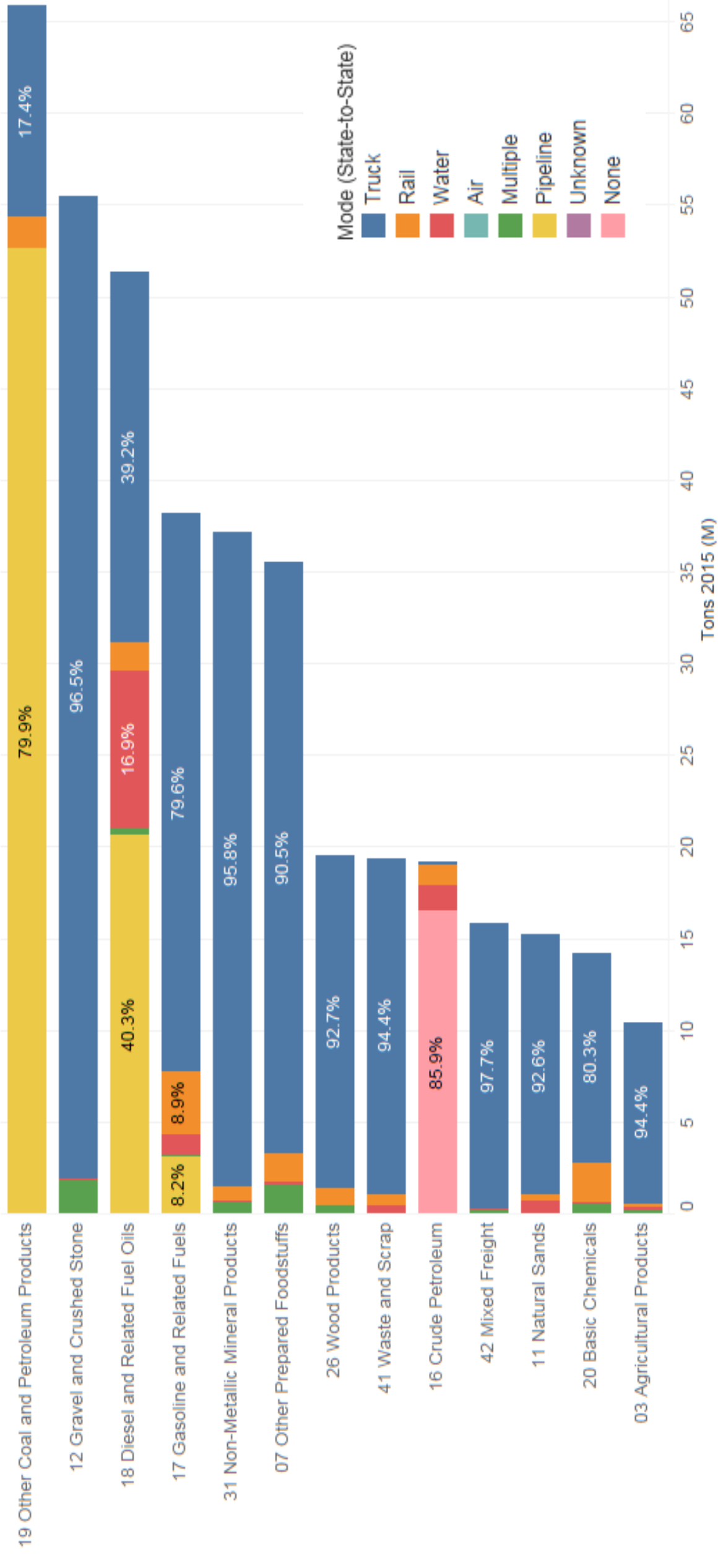
# TONS AND SHARES BY COMMODITY

Tons and Shares by Commodity (SCTG2)



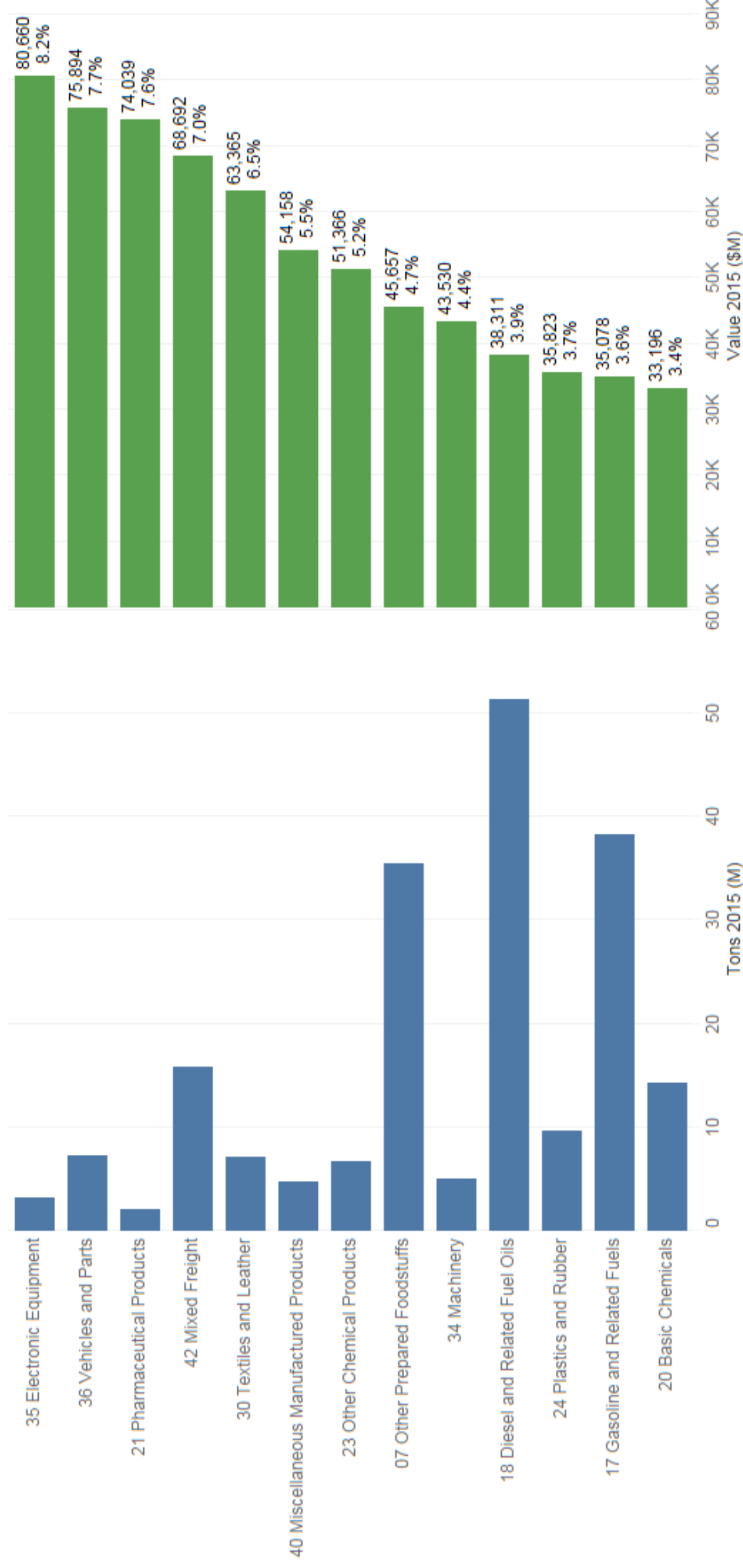
# TONS BY COMMODITY AND MODE

Tons by Commodity (SCTG2) and State-to-State Mode



# VALUE AND SHARES BY COMMODITY

Value and Shares by Commodity



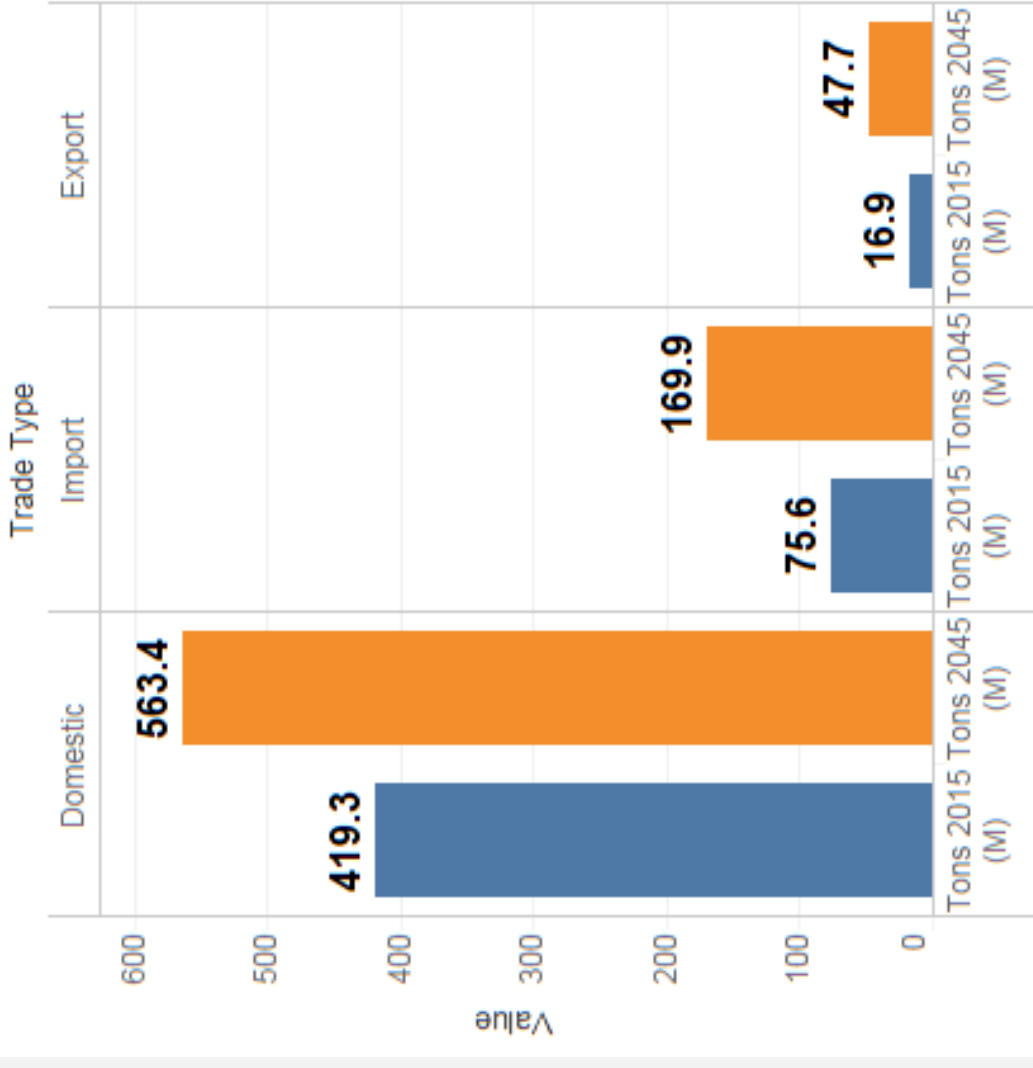


# FORECAST TONS BY MODE AND TRADE TYPE TO 2045

## Forecast Tons by State-to-State Mode

Mode (State-to-State)	Tons 2015 (M)	Tons 2045 (M)	Tons Added (M)	Tonnage CAGR
Truck	364.6	553.6	189.0	1.4%
Pipeline	76.7	100.5	23.8	0.9%
Multiple	15.2	38.0	22.9	3.1%
Rail	22.5	37.4	14.8	1.7%
Water	16.0	28.4	12.4	1.9%
None	16.6	22.2	5.6	1.0%
Air	0.2	0.6	0.4	3.6%
Unknown	0.1	0.3	0.2	4.5%
<b>Grand Total</b>	<b>511.8</b>	<b>781.0</b>	<b>269.2</b>	<b>1.4%</b>

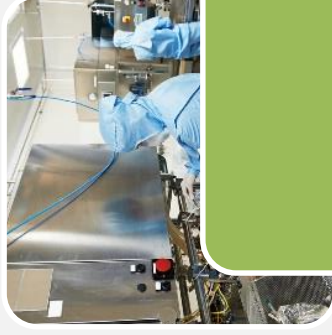
## Forecast Tons by Trade Type



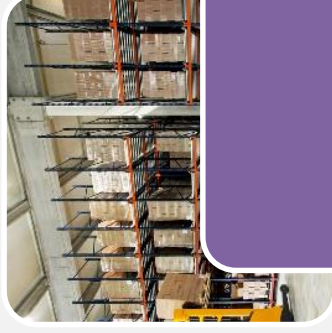
# TYPICAL SUPPLY CHAIN STEPS



Raw Materials  
Extraction/  
Production



Manufacturing



Distribution



Consumer  
(direct or via  
retailer)

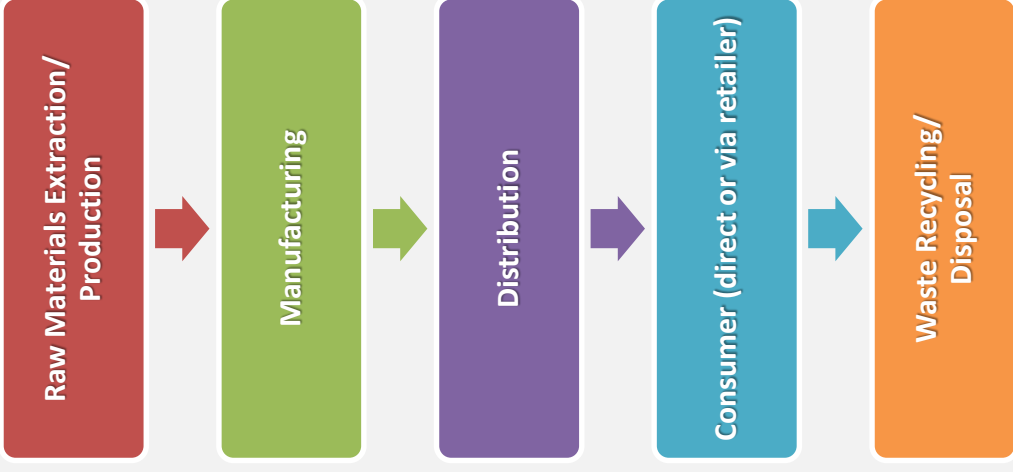


Waste  
Recycling/  
Disposal





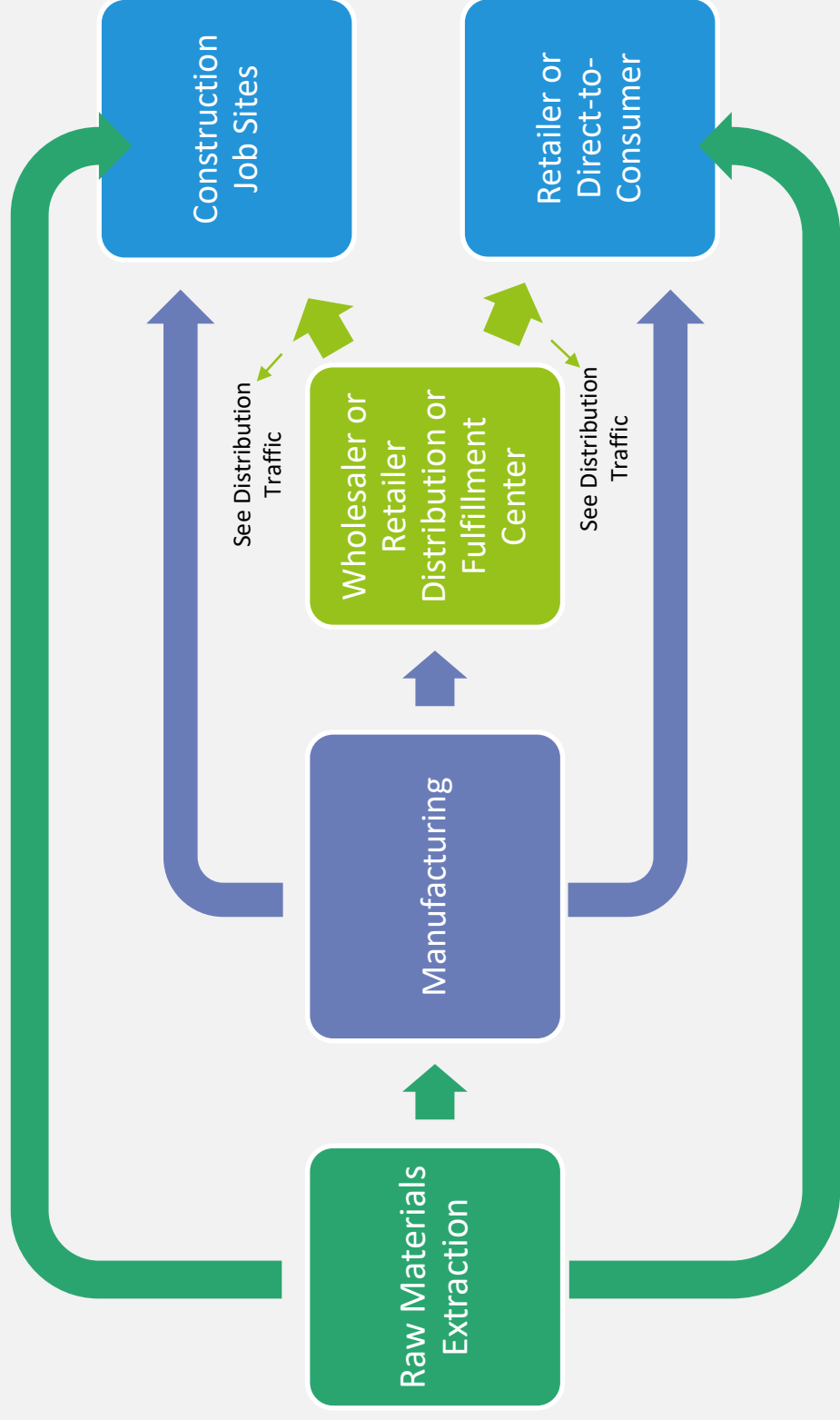
# SUPPLY CHAIN GROUPINGS



- **Consumer Durable and Nondurable Goods**
  - Furniture, electronics, transportation equipment, machinery
  - Food, textiles/apparel, paper/printed
- **Construction Materials**
  - Nonmetallic minerals, clay/concrete/glass/stone
- **Energy and Chemical Products**
  - Energy products, pharmaceuticals, chemicals
- **Distribution Traffic**
  - Secondary freight, parcels, drayage
- **Waste**
  - Waste/scrap materials, municipal solid waste



# CONSTRUCTION MATERIALS SUPPLY CHAIN

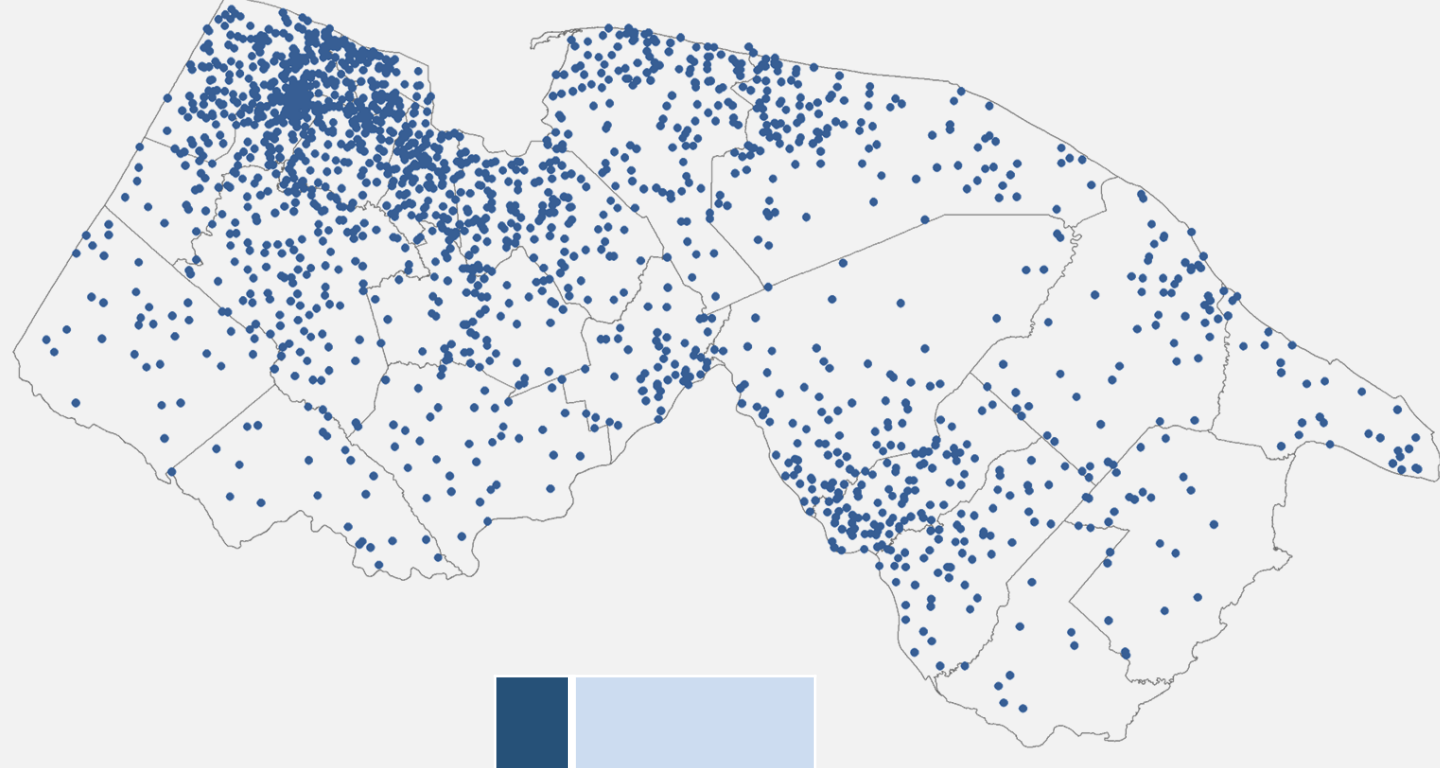


# CONSTRUCTION INDUSTRY SECTORS

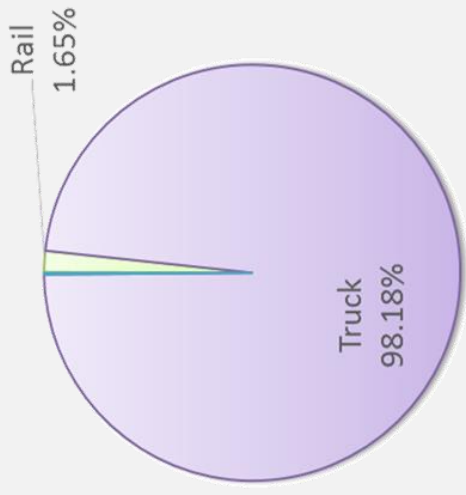
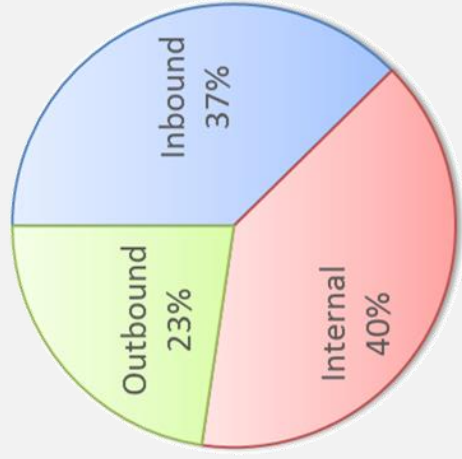
## Construction Related Industries

- Building and Home Construction
- Mining
- Concrete, Glass, Iron/Steel, Lumber Production

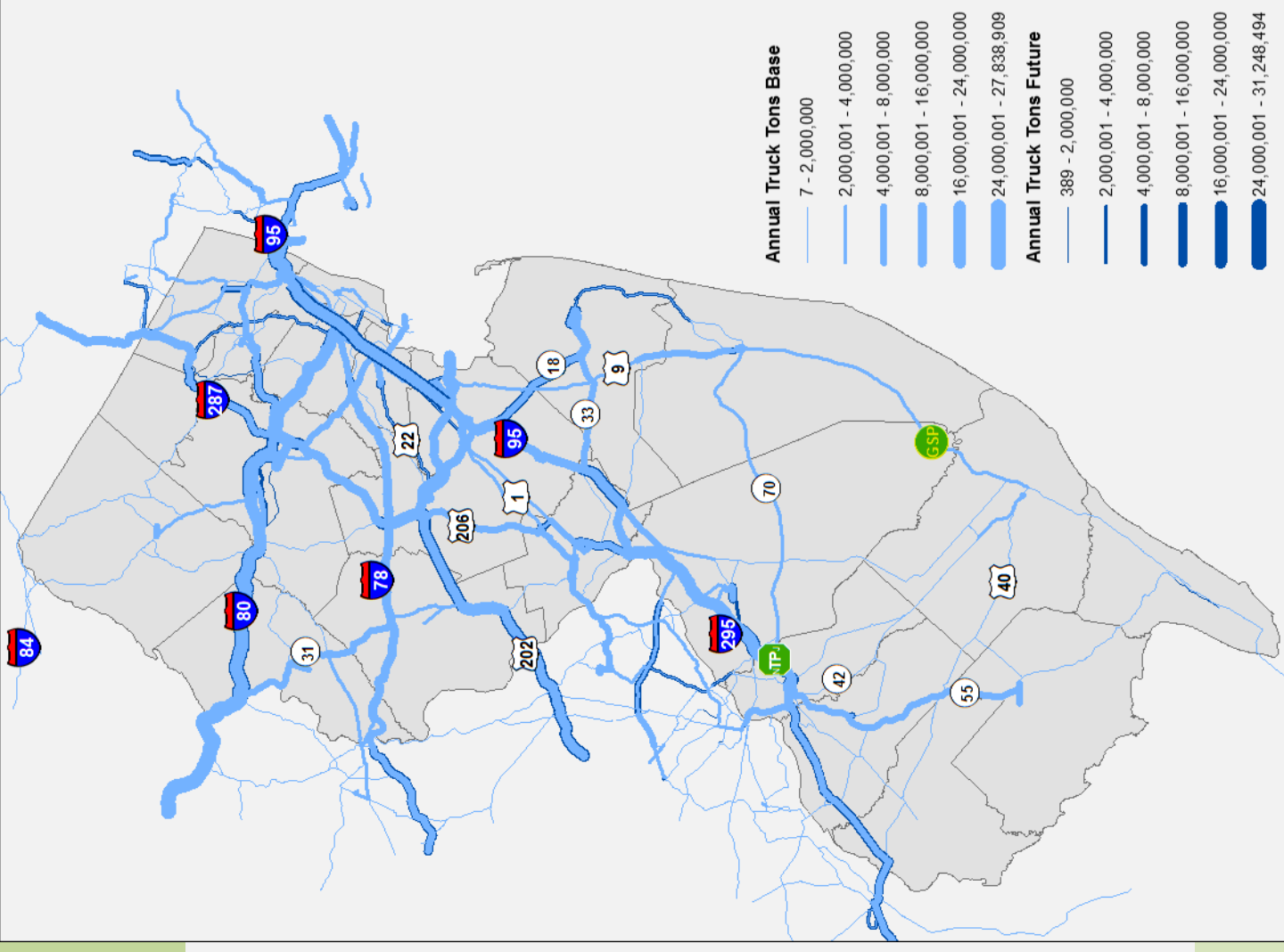
- Construction Contractors
- Hardware/Construction Materials Wholesale and Retail Trades



# CONSTRUCTION MATERIAL FLOWS



2015: 132 million tons  
 2045: 181 million tons (37% growth)



# HIGHWAY TRUCK PERFORMANCE MEASURES

- Planning Truck Travel Time Index
- Percentage Miles of Uncongested Truck Travel
- Average Truck Travel Speed
- Percentile Truck Travel Time



# PLANNING TRUCK TRAVEL TIME INDEX

- The planning time index represents how much total time a traveler should allow to ensure on-time arrival
- Compares near-worst case travel time to a travel time in light or free-flow traffic
- 95<sup>th</sup>/50<sup>th</sup> Percentile
- < 1.5 considered as reliable; > 3.5 considered a problem area



# AVERAGE TRUCK TRAVEL SPEED

- Average Truck Speeds on Interstate systems range between 50–60 mph
- Average Truck Travel Speeds above 55 mph considered as uncongested

Source: FHWA Travel Time Reliability, <http://mobility.tamu.edu/mmp/>



# HIGHWAY PERFORMANCE SOURCE DATA

- **National Performance Management Research Data Set (NPMRDS)**
- **2016 January through December**
  - All-day (24 Hours)
  - Morning Peak Period (6am to 10am)
  - Evening Peak Period (3pm to 7pm)
  - Approximately 75,000 records



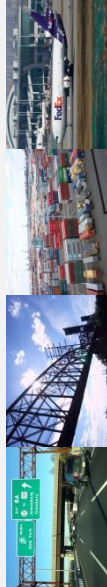


# OVERALL INTERSTATE HIGHWAY SYSTEM

- ✓ **Percentage Interstate Mileage Uncongested above or close to 80%**
- ✓ **Average Truck Travel Speeds above 55mph**
- ✓ **% of system providing for reliable travel times is above or close to 70%**

Note: \*Length based weighted average

<b>Performance Measures</b>			
	<b>All Day 24 Hours</b>	<b>Morning Peak Period</b>	<b>Evening Peak Period</b>
<b>% Uncongested Mileage</b>	<b>87.26%</b>	<b>85.34%</b>	<b>79.83%</b>
<b>Average Truck Speeds</b>	<b>57.16</b>	<b>56.52</b>	<b>55.63</b>
*Planning Truck Travel Time Index	1.55	1.66	1.76
<b>% Mileage (PTTTI: &lt; 1.5)</b>	<b>76.1%</b>	<b>75.2%</b>	<b>68.3%</b>
% Mileage (PTTTI: 1.5 - 3.5)	19.7%	20.1%	24.1%
% Mileage (PTTTI: 3.5 - 5.0)	2.4%	2.3%	4.6%
% Mileage (PTTTI: > 5.0)	1.7%	2.4%	3.0%
<b>*P10th Travel Time</b>	<b>2.79</b>	<b>-</b>	<b>-</b>
*P50th TT	2.98	-	-
*P90th TT	3.44	-	-
*P95th TT	3.90	-	-

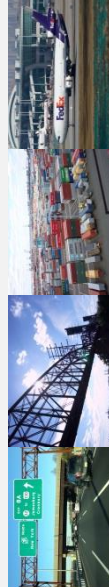


# AVERAGE TRUCK TRAVEL SPEEDS

## INTERSTATES – MORNING PEAK PERIOD

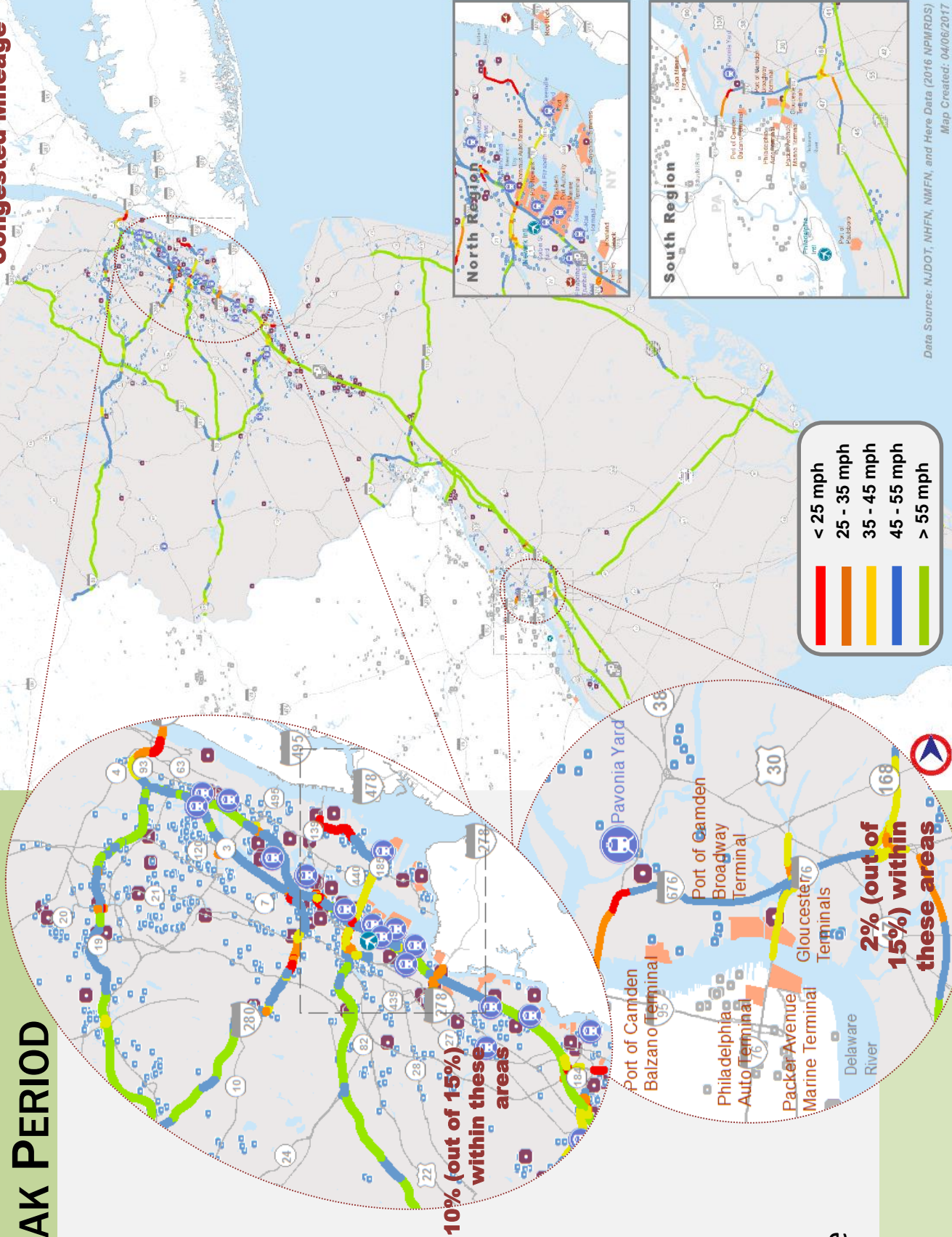
- Congestion (speeds < 55mph) approaching large activity centers and urban areas
- Average Truck Travel Speed 56.52 mph, uncongested
- Uncongested Mileage 85.34%

Note: Length based weighted average



Average Truck Travel Speeds - Interstates  
Morning Peak Period (Northbound / Eastbound)

Congested Mileage



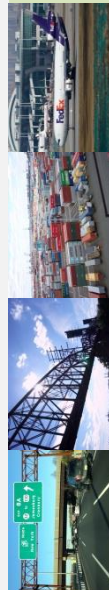
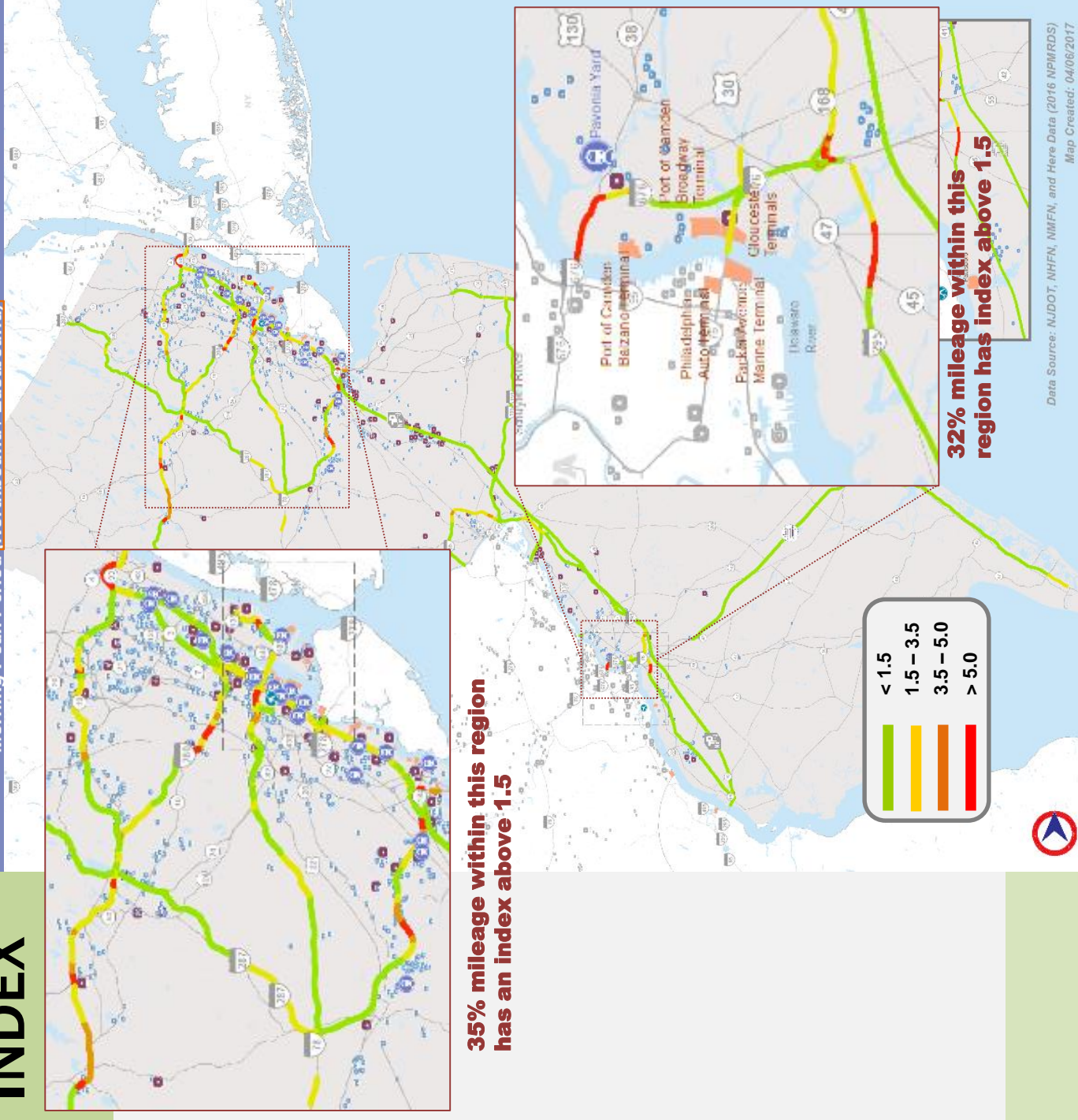
# PLANNING TRUCK TRAVEL TIME INDEX

## INTERSTATES – MORNING PEAK PERIOD

✓ 70% interstate mileage  
with an index below 1.5  
(reliable)

Northbound / Eastbound			
Planning Truck Travel Time Index	All Day 24 Hours	Morning Peak Period	Evening Peak Period
% Mileage (PTTI: < 1.5)	77.7%	70.3%	73.0%
% Mileage (PTTI: 1.5 - 3.5)	17.8%	22.8%	19.7%
% Mileage (PTTI: 3.5 - 5.0)	2.3%	3.4%	3.9%
% Mileage (PTTI: > 5.0)	2.2%	3.5%	3.4%

Note: Length based weighted average



# OVERALL NON INTERSTATE (NHS) HIGHWAY SYSTEM

Includes US, State, County and Other NHS Roadways

Average Truck Travel Speeds below 35mph, congested

Only 12% of system provides for reliable travel times

Note: \*Length based weighted average

Performance Measures			
	All Day 24 Hours	Morning Peak Period	Evening Peak Period
% Uncongested Mileage	11.48%	11.49%	10.94%
Average Truck Speeds	33.85	33.86	32.73
*Planning Truck Travel Time Index	4.10	4.23	4.33
% Mileage (PTTTI: < 1.5)	11.4%	12.6%	11.2%
% Mileage (PTTTI: 1.5 - 3.5)	39.8%	40.4%	36.2%
% Mileage (PTTTI: 3.5 - 5.0)	21.3%	20.0%	22.3%
% Mileage (PTTTI: > 5.0)	27.5%	27.0%	30.3%
<b>*P10th Travel Time</b>	<b>2.69</b>	<b>-</b>	<b>-</b>
*P50th TT	3.61	-	-
*P90th TT	8.93	-	-
*P95th TT	16.10	-	-



# AVERAGE TRUCK TRAVEL SPEEDS

## NON INTERSTATES (NHS) – MORNING PEAK PERIOD

☒ Congestion (speeds < 45mph), only 12.7% of system provides for reliable travel times

☒ Average Truck Travel Speed 33.73 mph, congested

☒ Uncongested Mileage 11.74%

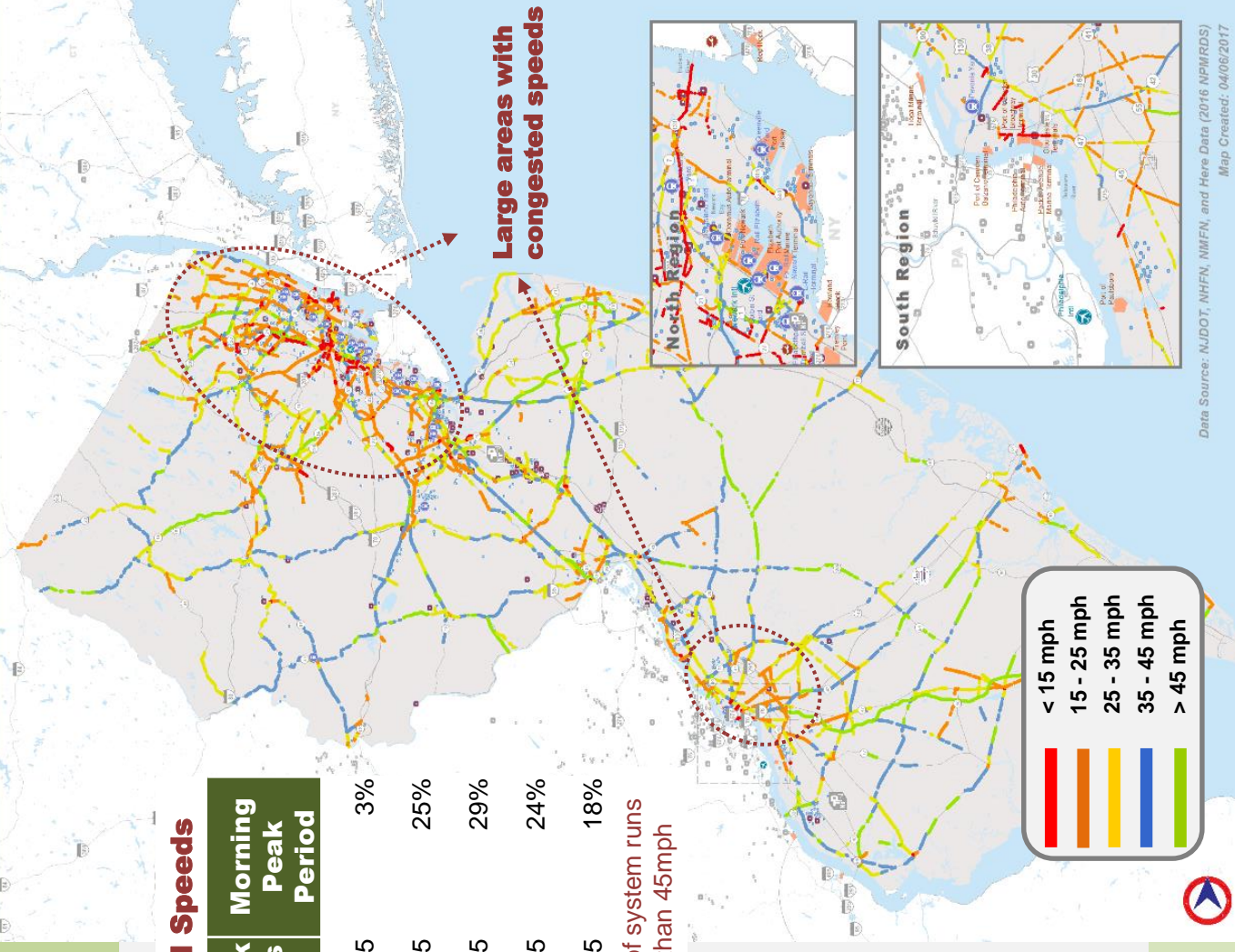
Note: Length based weighted average

### Truck Travel Speeds

Average Truck Travel Speeds (mph)	Morning Peak Period
-----------------------------------	---------------------

% Mileage < 15	3%
% Mileage 15 - 25	25%
% Mileage 25 - 35	29%
% Mileage 35 - 45	24%
% Mileage > 45	18%

More than 80% of system runs at speeds lower than 45mph



# PLANNING TRUCK TRAVEL TIME INDEX NON INTERSTATES (NHS) – MORNING PEAK PERIOD

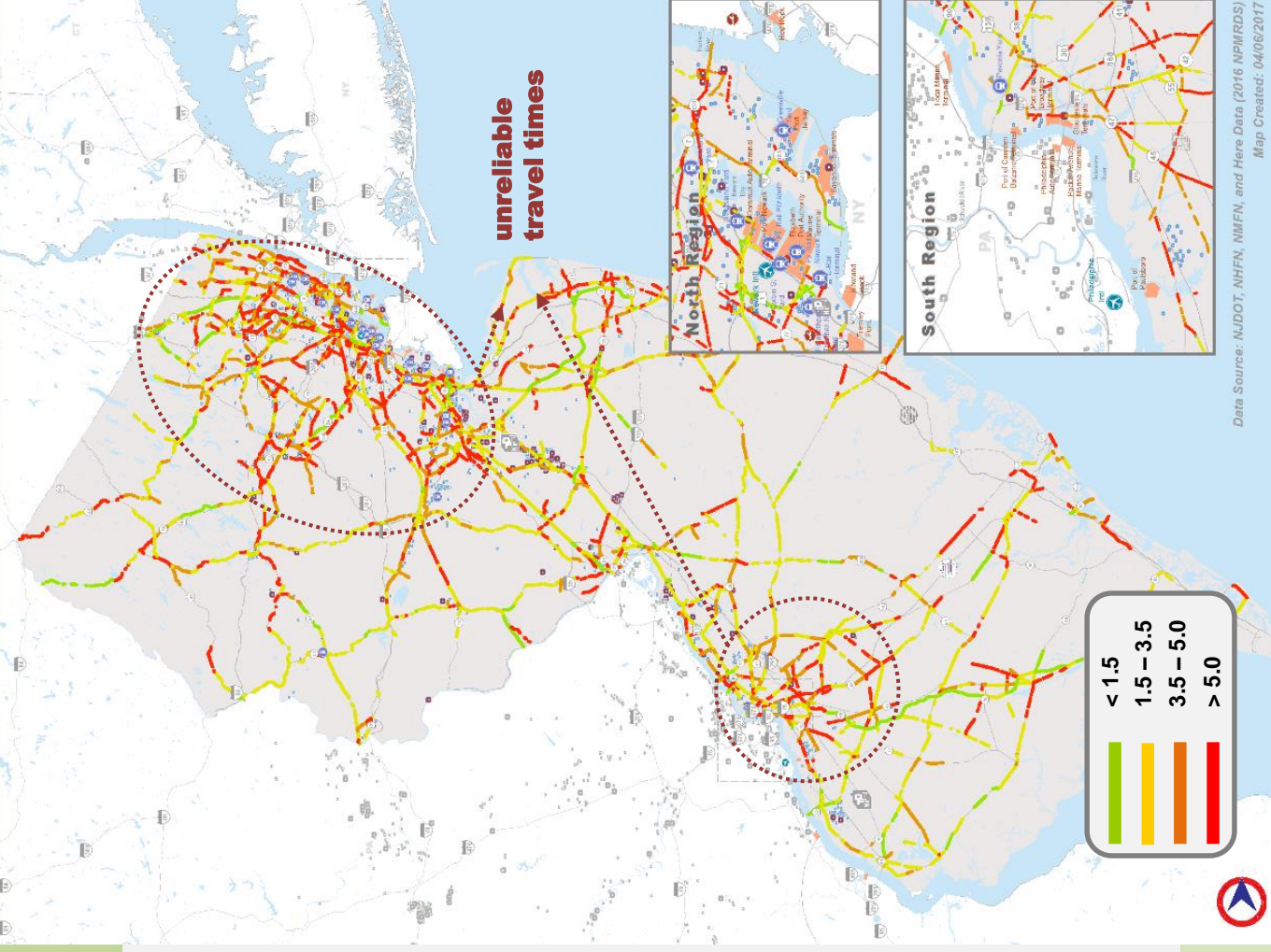
☒ More 87% of system provides for unreliable travel times

## Northbound / Eastbound

Planning Truck Travel Time Index	All Day 24 Hours	Morning Peak Period	Evening Peak Period
% Mileage (PTTTI: < 1.5)	11.6%	12.7%	12.0%
% Mileage (PTTTI: 1.5 - 3.5)	37.9%	39.2%	35.4%
% Mileage (PTTTI: 3.5 - 5.0)	21.3%	20.1%	19.6%
% Mileage (PTTTI: > 5.0)	29.2%	28.1%	32.9%

Note: Length based weighted average

unreliable travel times



# PROBLEM AREAS MAPPING - HIGHWAY (HIGH CRASH/HIGH TRAVEL TIME INDEX)

- Identification of highway locations most in need of improvements
- Additional User- or Stakeholder- Identified Issues under Development Through FAC



# PROBLEM AREAS MAPPING - HIGHWAY (HIGH CRASH/LOW AVG TRUCK TRAVEL SPEED)

- Identification of highway locations most in need of improvements
- Additional User- or Stakeholder- Identified Issues under Development Through FAC



**Average Speed**  
Interstate

< 35  
36 - 55

Non-Interstate

< 20  
21 - 45

**Average Crash Rate**  
Interstate

10 - 17

18 - 23

24 - 29

30 - 36

**Average Crash Rate**  
Non-Interstate

50 - 130

131 - 304

305 - 613

614 - 1315

**NJTS Total Flow (2007)**  
Million Tons

< 5

5 - 15

15 - 35

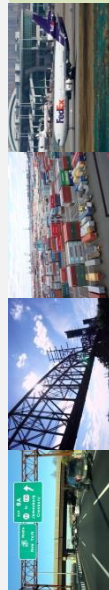
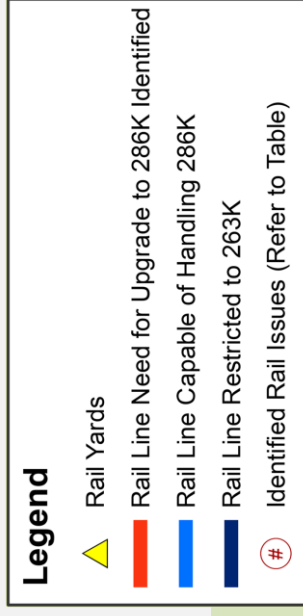
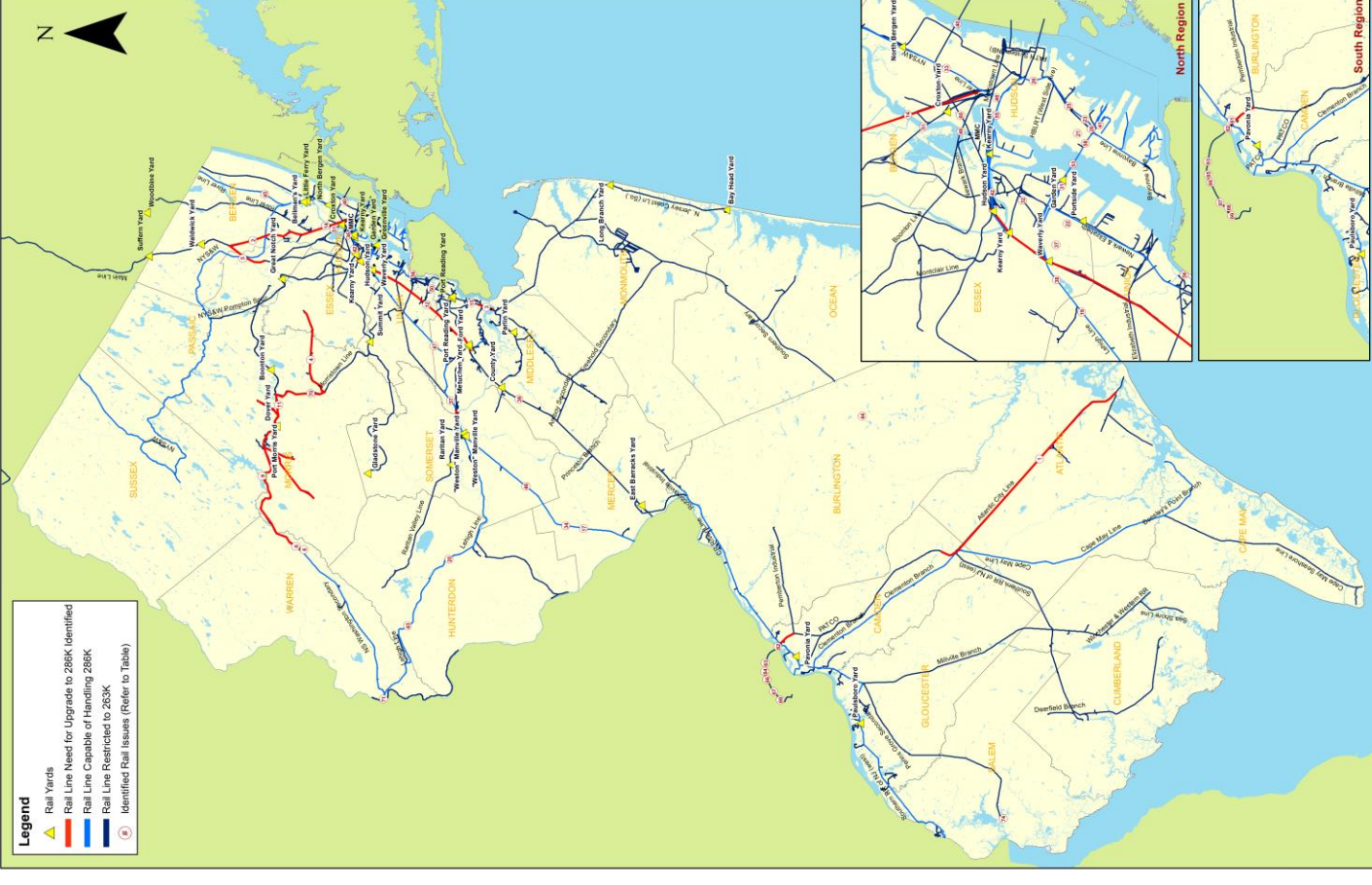
35 - 60

> 60



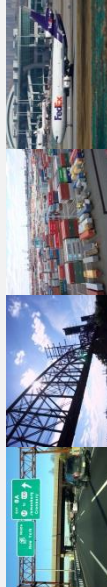
# PROBLEM AREAS MAPPING

- Identification of locations most in need of improvements
- Rail Locations:
  - Need for Upgrade to 286k
  - User- or Stakeholder-Identified Issues



# ADDITIONAL FREIGHT TOPICS

- **Truck Parking**
  - National Best Practices
  - Pilot Program for P3 Investment
- **Maritime**
  - Larger Vessels Coming
  - Coordination with OMR and PA
  - How addressing needs – Port, Corps, OMR
  - What are the Landside Connections?
- **Technology**
  - Warehouse Location and Automation
  - Retail Home Delivery
  - Connected and Autonomous Vehicles
  - Supply Chain Sourcing
  - 3-D Printing



# UPCOMING TASKS

- **Finalization of Project List**
  - Review additional data sources to support project list (Truck volumes, WIM data, speed data, reports/studies, permitting data)
  - Identify existing TIP projects that overlap with Problem Areas
  - Identify projects to be included on FAST funding list
  - Select CU/CR corridor segments
- **Review of emerging trends and technologies**
- **Draft Plan**



**THANK YOU**

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609-865-3930





# APPENDIX B CUFC/CRFC CORRIDORS



# CRITICAL RURAL FREIGHT CORRIDORS

<u>Map ID</u>	<u>Route</u>	<u>MPO</u>	<u>County</u>	<u>Municipality</u>	<u>Start</u>	<u>MP Start</u>	<u>End</u>	<u>MP End</u>	<u>Length</u>	<u>CUFC- CRFC</u>	<u>CRFC Mileage</u>
33	CR 539	DVRPC	Mercer	East Windsor Twp	CR 630	49.4	I-95/NJTPK	49.9	0.5	CRFC	0.48
122	CR 519	NJTPA	Hunterdon	Holland Twp	CR 631	14.9		16.6	1.7	CRFC	1.70
159	CR 524	NJTPA	Monmouth	Farmingdale Borough	Entering Farmingdale	30.27	Farmingdale municipal limit	31.18	0.9	CRFC	0.91
165	CR 526	NJTPA	Monmouth	Multiple	Entering Monmouth County	10.1	CR 539 SPUR (Sharon Station Road)	12.8	2.7	CRFC	2.66
166	CR 539	NJTPA	Monmouth	Multiple	Entering Allentown/Entering Monmouth County	40.8	Vicinity of Municipal limits of Monmouth/Mercer Cty	48.5	7.7	CRFC	7.69
169	CR 539 SPUR (Sharon Station Road)	NJTPA	Monmouth	Upper Freehold Twp	CR 539	0.0	CR524	2.3	2.3	CRFC	2.30
251	NJ 122	NJTPA	Warren	Pohatcong Twp	Bliss Blvd	2.07	US 22	2.42	0.4	CRFC	0.35
257	CR 621	SJTPO	Cape May	Lower Twp	Middle Thorofare Bridge	1.5	Middle Thorofare Bridge	2.0	0.5	CRFC	0.50

# CRITICAL RURAL/URBAN FREIGHT CORRIDORS

<u>Map ID</u>	<u>Route</u>	<u>MPO</u>	<u>County</u>	<u>Municipality</u>	<u>Start</u>	<u>MP Start</u>	<u>End</u>	<u>MP End</u>	<u>Length</u>	<u>CUFC-CRFC</u>	<u>CUFC Mileage</u>	<u>CRFC Mileage</u>
124	NJ 173	NJTPA	Hunterdon	Union Twp	Stoltz Rd	8.0	I-78	11.6	3.6	CRFC/CUFC	1.50	2.10
259	NJ 55	SJTPO	Cumberland	Millville City	NJ 47 (Int 27)	27.7	NJ 47 (Int 27)	27.9	0.2	CRFC/CUFC	0.00	0.20
264	NJ 49	SJTPO	Salem	Multiple	I-295	0.0	Front Street	8.5	8.5	CRFC/CUFC	5.60	2.90
263	US 40	SJTPO	Salem	Multiple	CR 616	10.0	NJ 77	16.5	6.5	CRFC/CUFC	4.90	1.60



# CRITICAL URBAN FREIGHT CORRIDORS

<u>Map ID</u>	<u>Route</u>	<u>MPO</u>	<u>County</u>	<u>Municipality</u>	<u>Start</u>	<u>MP Start</u>	<u>End</u>	<u>MP End</u>	<u>Length</u>	<u>CUFC-CRFC</u>	<u>CUFC Mileage</u>
1	US 130	DVRPC	Burlington	Bordentown Twp	I-295	54.9	US 206	55.8	0.9	CUFC	0.90
4	NJ 413	DVRPC	Burlington	Burlington City	Broad Street	0.4	US 130	0.75	0.4	CUFC	0.35
312	US 130	DVRPC	Burlington	Burlington City	Jones Street	47.1	Jones Street	47.2	0.1	CUFC	0.10
311	US 130	DVRPC	Burlington	Burlington Twp	Dulty Lane	48.9	Dulty Lane	49	0.1	CUFC	0.10
8	US 130	DVRPC	Burlington	Florence Twp		50.06	NJ Turnpike (I-276)	50.25	0.2	CUFC	0.19
308	US 130	DVRPC	Burlington	Florence Twp	CR 656	50.8	CR 656	50.9	0.1	CUFC	0.10
309	US 130	DVRPC	Burlington	Florence Twp	CR 659	50.05	CR 659	50.15	0.1	CUFC	0.10
310	US 130	DVRPC	Burlington	Florence Twp	John Galt Way	49.5	John Galt Way	49.6	0.1	CUFC	0.10
10	NJ 73	DVRPC	Burlington	Mount Laurel Twp	NJ Turnpike	27	I-295	27.68	0.7	CUFC	0.68
314	NJ 130	DVRPC	Burlington	Multiple	CR 625	41.55	CR 625	41.65	0.1	CUFC	0.10
13	US 130	DVRPC	Burlington	Multiple	CR 625	41.5	CR 625	41.7	0.2	CUFC	0.20
12	US 206	DVRPC	Burlington	Multiple	NJ 68	33.6	NJ Turnpike	34	0.4	CUFC	0.40
15	NJ 168	DVRPC	Camden	Bellmawr Borough	NJ Turnpike	6.6	I-295	7.42	0.8	CUFC	0.82
16	NJ 42	DVRPC	Camden	Bellmawr Borough		13.82	I-295	14.28	0.5	CUFC	0.46
18	Atlantic Avenue	DVRPC	Camden	Camden City	I-676 Int	0.68	I-676 Int	0.75	0.1	CUFC	0.07
20	River Road	DVRPC	Camden	Camden City					0.0	CUFC	0.00
303	CR 603	DVRPC	Camden	City of Camden	Mechanic St	0	CR 551	0.62	0.62	CUFC	0.62
301	Harrison Ave	DVRPC	Camden	City of Camden	CR 601	0	36th St.	0.77	0.77	CUFC	0.77
304	Morgan Blvd	DVRPC	Camden	City of Camden	I 676	0.21	NJ 168	1.09	0.88	CUFC	0.88
24	NJ 38	DVRPC	Camden	Pennsauken Twp	US 130	0	Browning Road	0.4	0.4	CUFC	0.40
27	US 130	DVRPC	Camden	Pennsauken Twp	CR 615	34.06	NJ 90	34.16	0.1	CUFC	0.10
26	US 130	DVRPC	Camden	Pennsauken Twp	CR 616	33.08	CR 616	33.15	0.1	CUFC	0.07

<u>Map ID</u>	<u>Route</u>	<u>MPO</u>	<u>County</u>	<u>Municipality</u>	<u>Start</u>	<u>MP Start</u>	<u>End</u>	<u>MP End</u>	<u>Length</u>	<u>CUFC-CRFC</u>	<u>CUFC Mileage</u>
25	US 30/US 130	DVRPC	Camden	Pennsauken Twp	Vic of NJ 38	3	Vic of NJ 38	3.3	0.3	CUFC	0.30
313	NJ 44	DVRPC	Gloucester	Greenwich Twp	Reapapock Creek	2.2	Wert Ave	5.5	3.3	CUFC	3.30
31	NJ 45	DVRPC	Gloucester	Woodbury City	CR 644	26.3	Chestnut Street	26.6	0.3	CUFC	0.30
34	NJ 31	DVRPC	Mercer	Hopewell Twp	Denow Rd.	5.48	Search Rd	6.44	1.0	CUFC	0.00
306	NJ 31	DVRPC	Mercer	Multiple	I-95	4.84	Delaware Ave	7.7	2.86	CUFC	2.86
307	US 1	DVRPC	Mercer	Multiple	Franklin Corner Road	5.98	Mercer Border/Union Road	14	8.02	CUFC	8.02
37	US 1	DVRPC	Mercer	Trenton City	NJ 29	0.1	CR 622	2.5	2.4	CUFC	2.40
38	CR 571	DVRPC	Mercer	West Windsor Twp	Fairview Ln	41.96	Tiger Lane	42.5	0.5	CUFC	0.54
40	NJ 4	NJTPA	Bergen	Fort Lee Borough	Approaching I-95	10.1	I-95	10.59	0.5	CUFC	0.49
51	US 46	NJTPA	Bergen	Multiple	CR 503	69.52	Main St	70.42	0.9	CUFC	0.90
50	US 46	NJTPA	Bergen	Multiple	Rail	71.52	US 1/9	72.09	0.6	CUFC	0.57
63	NJ 93	NJTPA	Bergen	Palisades Park Borough	Linden Ave.	0.56	Homestead Ave	0.92	0.4	CUFC	0.36
64	NJ 4	NJTPA	Bergen	Paramus Borough	GSP	2.9	CR 61	3.54	0.6	CUFC	0.64
67	NJ 93	NJTPA	Bergen	Ridgefield Borough	US 1/9	0	Industrial Ave	0.2	0.2	CUFC	0.20
84	CR 510	NJTPA	Essex	Newark City	Broad Street	29.27	NJ 21	29.58	0.3	CUFC	0.31
88	Delancy Street	NJTPA	Essex	Newark City	I-95	0.0	US 1/9	1.0	1.0	CUFC	1.00
94	US 46	NJTPA	Essex/Passaic	Multiple	CR 613	55.0	NJ 23	56.0	1.0	CUFC	1.00
96	CR 508	NJTPA	Hudson	Harrison Town	I-280	12.53	7th Street	13.06	0.5	CUFC	0.53
102	CR 501	NJTPA	Hudson	Jersey City	Newark Avenue	30.85	NJ 139	31.11	0.3	CUFC	0.26
97	NJ 139	NJTPA	Hudson	Jersey City	US 1/9	0	Summit Ave	0.47	0.5	CUFC	0.47
101	NJ 7	NJTPA	Hudson	Jersey City	Wittpenn Bridge	0.3	Wittpenn Bridge	0.7	0.4	CUFC	0.00
105	CR 659	NJTPA	Hudson	Kearny Town	US 1/9T (Int)	1.7	US 1/9T (Int)	1.8	0.1	CUFC	0.10
108	CR 659	NJTPA	Hudson	Kearny Town	Pennsylvania Ave	1.2	Pennsylvania Ave	1.2	0.0	CUFC	0.00
113	NJ 495	NJTPA	Hudson	Multiple	US 1	0.9	Summit Ave	1.33	0.4	CUFC	0.43

<u>Map ID</u>	<u>Route</u>	<u>MPO</u>	<u>County</u>	<u>Municipality</u>	<u>Start</u>	<u>MP Start</u>	<u>End</u>	<u>MP End</u>	<u>Length</u>	<u>CUFC-CRFC</u>	<u>CUFC Mileage</u>
110	NJ 7	NJTPA	Hudson	Multiple	US 1/9	0	Fish House Rd	0.73	0.7	CUFC	0.73
116	NJ 495 Ramp	NJTPA	Hudson	Secaucus Town	NJ 495		NJ Turnpike		0.0	CUFC	0.00
117	CR 501	NJTPA	Hudson	Union City	28th Street	33.94	32nd Street	34.22	0.3	CUFC	0.28
118	NJ 495	NJTPA	Hudson	Weehawken Twp	Helix	2.0	Helix	2.5	0.5	CUFC	0.50
120	NJ 173	NJTPA	Hunterdon	Bloomsbury Borough	Main Street	3.68	I-78	3.94	0.3	CUFC	0.26
123	US 202	NJTPA	Hunterdon	Multiple	NJ 31	11.44	CR 650	11.91	0.5	CUFC	0.47
127	US 130	NJTPA	Middlesex	Cranbury Twp	Approaching CR 535	71.6	CR 535	72.09	0.5	CUFC	0.49
129	CR 527	NJTPA	Middlesex	East Brunswick City	Approaching NJ 18	42.84	NJ 18	42.92	0.1	CUFC	0.08
135	CR 514	NJTPA	Middlesex	Edison Twp	CR 667	28.8	College Dr	29.24	0.4	CUFC	0.44
142	NJ 18	NJTPA	Middlesex	Multiple	NJ Turnpike	39.56	Paulus Blvd	40.9	1.3	CUFC	1.34
143	US 9	NJTPA	Middlesex	Multiple	Orchard Street	129.57	Raritan Street	130.46	0.9	CUFC	0.89
147	NJ 35	NJTPA	Middlesex	South Amboy City	App US 9	49.2	US 9	49.36	0.2	CUFC	0.16
146	US 9	NJTPA	Middlesex	South Amboy City	NJ 35 (Int)	129.7	NJ 35 (Int)	130.2	0.5	CUFC	0.50
149	CR 535	NJTPA	Middlesex	South Brunswick Twp	Vic NJ 32	17.02	Vic NJ 32	17.69	0.7	CUFC	0.67
148	NJ 32	NJTPA	Middlesex	South Brunswick Twp	US 130	0	I-95	1.18	1.2	CUFC	1.18
150	US 130	NJTPA	Middlesex	South Brunswick Twp	Vic NJ 32	74.1	Vic NJ 32	74.6	0.5	CUFC	0.50
154	US 9	NJTPA	Middlesex	Woodbridge Twp	Edison Bridge	132.5	CR 616	133.36	0.9	CUFC	0.86
158	US 9	NJTPA	Middlesex	Woodbridge Twp	CR 604	136.06	US 1	136.38	0.3	CUFC	0.32
167	NJ 35	NJTPA	Monmouth	Red Bank Borough	CR 10	33.84	Allen Pl	34	0.2	CUFC	0.16
171	CR 547	NJTPA	Monmouth	Wall Twp		20	NJ 33	20.79	0.8	CUFC	0.79
170	NJ 33	NJTPA	Monmouth	Wall Twp	NJ 34	35.86	Campus Pkwy	36.15	0.3	CUFC	0.29

<u>Map ID</u>	<u>Route</u>	<u>MPO</u>	<u>County</u>	<u>Municipality</u>	<u>Start</u>	<u>MP Start</u>	<u>End</u>	<u>MP End</u>	<u>Length</u>	<u>CUFC-CRFC</u>	<u>CUFC Mileage</u>
174	CR 510W	NJTPA	Morris	Morristown Town	CR 510	0.3	I-287	0.7	0.4	CUFC	0.40
177	NJ 124	NJTPA	Morris	Morristown Town	US 202	0	Elm St	0.39	0.4	CUFC	0.39
180	NJ 24	NJTPA	Morris	Multiple	I-287	0	Appr. I-287	1.2	1.2	CUFC	1.20
191	US 9	NJTPA	Ocean	Lakewood Twp	Approaching NJ 88	101.4	4th Street	102	0.6	CUFC	0.60
202	US 46	NJTPA	Passaic	Wayne Twp	NJ 23/I-80	56.0	NJ 23/I-80	56.5	0.5	CUFC	0.50
206	NJ 28	NJTPA	Somerset	Bound Brook Borough	John Street	7.86	East Street	8.09	0.2	CUFC	0.23
209	US 22	NJTPA	Somerset	Bridgewater Twp	US 202/206	33.8	CR 643	34.17	0.4	CUFC	0.00
210	US 22	NJTPA	Somerset	Bridgewater Twp	US 202/206	33.9	I-287	37.1	3.3	CUFC	3.26
211	US 206	NJTPA	Somerset	Hillsborough Twp		66.4		68.6	2.2	CUFC	2.24
212	NJ 28	NJTPA	Somerset	Multiple	Approaching Somerville Cir	2	Middough St.	2.66	0.7	CUFC	0.66
213	US 202/206	NJTPA	Somerset	Multiple	CR 567	23.9	US 22 Int	25.2	1.3	CUFC	1.30
215	CR 527	NJTPA	Somerset	S. Bound Brook Borough	Clinton St	53	Canal Rd	53.12	0.1	CUFC	0.12
216	US 206	NJTPA	Sussex	Newton Town	Liberty Street	108.97	Hamilton St.	109.49	0.5	CUFC	0.52
223	NJ 27	NJTPA	Union	Elizabeth City	App NJ 439	35.28	NJ 439	35.35	0.1	CUFC	0.07
220	NJ 439	NJTPA	Union	Elizabeth City	CR 623	0.34	Erica Ave	1	0.7	CUFC	0.66
222	NJ 439	NJTPA	Union	Elizabeth City	CR 612	1.71	Wyoming St	2.16	0.5	CUFC	0.45
224	US 22	NJTPA	Union	Hillside Twp	Vic of CR 509	57.2	Vic of CR 509	57.3	0.1	CUFC	0.10
227	CR 514	NJTPA	Union	Linden City	Rail	40	CR 615	40.29	0.3	CUFC	0.29
229	CR 615 (Stiles Street)	NJTPA	Union	Linden City	US 1&9	0.0	NJ 27	1.4	1.4	CUFC	1.37
240	CR 577	NJTPA	Union	Springfield Twp	NJ 124	0	Taft Ln	0	0.0	CUFC	0.00
241	NJ 124	NJTPA	Union	Springfield Twp	Center St	11.06	124W Split	11.3	0.2	CUFC	0.24
239	NJ 24	NJTPA	Union	Springfield Twp	CR 527	9.6	I-78	10.42	0.8	CUFC	0.82

<u>Map ID</u>	<u>Route</u>	<u>MPO</u>	<u>County</u>	<u>Municipality</u>	<u>Start</u>	<u>MP Start</u>	<u>End</u>	<u>MP End</u>	<u>Length</u>	<u>CUFC-CRFC</u>	<u>CUFC Mileage</u>
242	NJ 82	NJTPA	Union	Springfield Twp	NJ 124	0	Marion Ave	0.29	0.3	CUFC	0.29
250	US 22	NJTPA	Warren	Pohatcong Twp	CR 638	4.02	I-78	4.89	0.9	CUFC	0.87
258	NJ 55	SJTPO	Cumberland	Millville City	NJ 49 (Int 24)	24.5	NJ 49 (Int 24)	24.7	0.2	CUFC	0.20
316	CR 674	SJTPO	Cumberland	Vineland City	Mill Road	0.7	Mill Road	0.8	0.1	CUFC	0.10
261	NJ 56	SJTPO	Cumberland	Vineland City	NJ 55	7.65	NJ 47	9.18	1.5	CUFC	1.50
315	NJ 56	SJTPO	Cumberland	Vineland City	Mill Road	8.1	Mill Road	8.3	0.2	CUFC	0.20
262	NJ 140	SJTPO	Salem	Carneys Point Twp	US 130	0	US 40	0.99	1.0	CUFC	0.99
267	US 40	SJTPO	Salem	Woodstown Boro	Int. Improvement Project	10.5		10.8	0.3	CUFC	0.00



# APPENDIX C HIGHWAY PROBLEM AREAS



Map ID	Route	Roadway Type	MPO	County	Municipality	Start	MP Start	End	MP End	Length	NHFN	CUFC-CRFC	How Identified
3	I-295	I	DVRPC	Burlington	Bordentown Twp	US 130 (Int 57)	56.6	US 130 (Int 57)	57.0	0.4	Y	NA	SJ Ec. Devp Study
2	I-95	I	DVRPC	Burlington	Bordentown Twp	Ramps - Int 7		Ramps - Int 7		0.0	Y	NA	Speed/Crash
1	US 130	NI	DVRPC	Burlington	Bordentown Twp	I-295	54.9	US 206	55.8	0.9		CUFC	Speed/Crash; TTI/Crash
4	NJ 413	NI	DVRPC	Burlington	Burlington City	Broad Street	0.4	US 130	0.75	0.4		CUFC	Speed/Crash; TTI/Crash
312	US 130	NI	DVRPC	Burlington	Burlington City	Jones Street	47.1	Jones Street	47.2	0.1		CUFC	DVRPC
5	US 130	NI	DVRPC	Burlington	Burlington City	Uhler Ave	45.32	CR 670	46.46	1.1		CUFC	Speed/Crash; TTI/Crash
311	US 130	NI	DVRPC	Burlington	Burlington Twp	Dulty Lane	48.9	Dulty Lane	49	0.1		CUFC	DVRPC
308	US 130	NI	DVRPC	Burlington	Florence Twp	CR 656	50.8	CR 656	50.9	0.1		CUFC	DVRPC
309	US 130	NI	DVRPC	Burlington	Florence Twp	CR 659	50.05	CR 659	50.15	0.1		CUFC	DVRPC
310	US 130	NI	DVRPC	Burlington	Florence Twp	John Galt Way	49.5	John Galt Way	49.6	0.1		CUFC	DVRPC
8	US 130	NI	DVRPC	Burlington	Florence Twp		50.06	NJ Turnpike (I-276)	50.25	0.2		CUFC	Speed/Crash
9	I-295	I	DVRPC	Burlington	Mansfield Twp	CR 656 (Int 52)	52.2	CR 656 (Int 52)	52.5	0.3	Y	NA	SJ Ec. Devp Study
11	I-295	I	DVRPC	Burlington	Mount Laurel Twp	NJ 38 (Int 40)	40.5	NJ 38 (Int 40)	41.0	0.5	Y	NA	SJ Ec. Devp Study
10	NJ 73	NI	DVRPC	Burlington	Mount Laurel Twp	NJ Tunnpike	27	I-295	27.68	0.7		CUFC	Speed/Crash; TTI/Crash
314	NJ 130	NI	DVRPC	Burlington	Multiple	CR 625	41.55	CR 625	41.65	0.1		CUFC	DVRPC
13	US 130	NI	DVRPC	Burlington	Multiple	CR 625	41.5	CR 625	41.7	0.2		CUFC	DVRPC
12	US 206	NI	DVRPC	Burlington	Multiple	NJ 68	33.6	NJ Turnpike	34	0.4		CUFC	Speed/Crash; TTI/Crash
14	I-295	I	DVRPC	Camden	Bellmawr Borough	NJ 42	26.6	NJ 168	28.2	1.6	Y	NA	Speed/Crash; TTI/Crash; STIP
15	NJ 168	NI	DVRPC	Camden	Bellmawr Borough	NJ Tunnpike	6.6	I-295	7.42	0.8		CUFC	Speed/Crash; TTI/Crash
16	NJ 42	NI	DVRPC	Camden	Bellmawr Borough		13.82	I-295	14.28	0.5		CUFC	Speed/Crash; TTI/Crash
17	CR 551	NI	DVRPC	Camden	Brooklawn Borough	US 130	29.46	Town Center Drive	29.61	0.1		CUFC	Speed/Crash; TTI/Crash
18	Atlantic Avenue	NI	DVRPC	Camden	Camden City	I-676 Int	0.68	I-676 Int	0.75	0.1		CUFC	Speed/Crash



Map ID	Route	Roadway Type	MPO	County	Municipality	Start	MP Start	End	MP End	Length	NHFN	CUFC-CRFC	How Identified
19	I-676	I	DVRPC	Camden	Camden City	I-76	0.0	Ben Franklin Bridge	4.8	4.8	Y	NA	SJ Ec. Devp Study
21	I-676	I	DVRPC	Camden	Camden City	Vic of Atlantic Avenue	2.0	Vic of Atlantic Avenue	2.6	0.6	Y	NA	Speed/Crash
20	River Road	NI	DVRPC	Camden	Camden City					0.0		CUFC	STIP
302	2nd Street	NI	DVRPC	Camden	City of Camden	CR 603	0	Clinton St	0.78	0.78		CUFC	DVRPC
300	CR 601	NI	DVRPC	Camden	City of Camden	Centennial Dr	0.79	NJ 130	2.76	1.97		CUFC	DVRPC
303	CR 603	NI	DVRPC	Camden	City of Camden	Mechanic St	0	CR 551	0.62	0.62		CUFC	DVRPC
301	Harrison Ave	NI	DVRPC	Camden	City of Camden	CR 601	0	36th St.	0.77	0.77		CUFC	DVRPC
304	Morgan Blvd	NI	DVRPC	Camden	City of Camden	I 676	0.21	NJ 168	1.09	0.88		CUFC	DVRPC
23	I-295	I	DVRPC	Camden	Multiple	NJ 42/I-76/I-676	26.0	US 30	30.5	4.5	Y	NA	FMS/FP2/STIP
22	I-76	I	DVRPC	Camden	Multiple	I-295	0.0		0.8	0.8	Y	NA	Speed/Crash
24	NJ 38	NI	DVRPC	Camden	Pennsauken Twp	US 130	0	Browning Road	0.4	0.4		CUFC	Speed/Crash; TTI/Crash
27	US 130	NI	DVRPC	Camden	Pennsauken Twp	CR 615	34.06	NJ 90	34.16	0.1		CUFC	Speed/Crash
26	US 130	NI	DVRPC	Camden	Pennsauken Twp	CR 616	33.08	CR 616	33.15	0.1		CUFC	Speed/Crash
25	US 30/ US 130	NI	DVRPC	Camden	Pennsauken Twp	Vic of NJ 38	3	Vic of NJ 38	3.3	0.3		CUFC	Speed/Crash; TTI/Crash
313	NJ 44	NI	DVRPC	Gloucester	Greenwich Twp	Reapapock Creek	2.2	Wert Ave	5.5	3.3		CUFC	DVRPC
28	I-295	I	DVRPC	Gloucester	Logan Twp	US 130 (Int 13)	14.0	US 130 (Int 13)	14.5	0.5	Y	NA	FP 2
29	I-295	I	DVRPC	Gloucester	Logan Twp	CR 620 (Int 10)	10.2	CR 620 (Int 10)	10.5	0.3	Y	NA	SJ Ec. Devp Study
30	NJ 47	NI	DVRPC	Gloucester	Multiple	River Dr.	74.9	US 130	75.2	0.3		CUFC	Speed/Crash; TTI/Crash
31	NJ 45	NI	DVRPC	Gloucester	Woodbury City	CR 644	26.3	Chestnut Street	26.6	0.3		CUFC	Speed/Crash; TTI/Crash
32	US 130	NI	DVRPC	Gloucester/ Camden	Multiple	CR 710	25.21	CR 551	25.58	0.4		CUFC	Speed/Crash; TTI/Crash
33	CR 539	NI	DVRPC	Mercer	East Windsor Twp	CR 630	49.4	I-95/NJTPK	49.9	0.5		CRFC	DVRPC

Map ID	Route	Roadway Type	MPO	County	Municipality	Start	MP Start	End	MP End	Length	NHFN	CUFC-CRFC	How Identified
35	CR 546	NI	DVRPC	Mercer	Hopewell Twp	Reed Rd.	4.13	CR 652	5.26	1.1		CUFC	Speed/Crash
34	NJ 31	NI	DVRPC	Mercer	Hopewell Twp	Denow Rd.	5.48	Search Rd	6.44	1.0		CUFC	Speed/Crash
305	CR 622	NI	DVRPC	Mercer	Multiple	US 1	3.64	Artic Parkway	4.65	1.01		CUFC	DVRPC
306	NJ 31	NI	DVRPC	Mercer	Multiple	I-95	4.84	Delaware Ave	7.7	2.86		CUFC	DVRPC
307	US 1	NI	DVRPC	Mercer	Multiple	Franklin Corner Road	5.98	Mercer Border/ Union Road	14	8.02		CUFC	DVRPC
36	I-95	I	DVRPC	Mercer	Robbinsville Twp	Vic of Int 7A	14.5	Vic of Int 7A	15.0	0.5	Y	NA	Speed/Crash
37	US 1	NI	DVRPC	Mercer	Trenton City	NJ 29	0.1	CR 622	2.5	2.4		CUFC	DVRPC
38	CR 571	NI	DVRPC	Mercer	West Windsor Twp	Fairview Ln	41.96	Tiger Lane	42.5	0.5		CUFC	Speed/Crash; TTI/Crash
39	I-95 W Spur	I	NJTPA	Bergen	E Rutherford Borough	NJ 3 (Int 16W)	7.0	NJ 3 (Int 16W)	7.5	0.5	Y	NA	STIP
40	NJ 4	NI	NJTPA	Bergen	Fort Lee Borough	Approaching I-95	10.1	I-95	10.59	0.5		CUFC	Speed/Crash; TTI/Crash
41	US 1/9	NI	NJTPA	Bergen	Fort Lee Borough	Howard Ave	61.66	Lancaster Ave	61.76	0.1	Addition	NA	Speed/Crash; TTI/Crash
42	NJ 17	NI	NJTPA	Bergen	Hasbrouck Heights Borough	US 46	8.0	US 46	8.5	0.5	Addition	NA	FP 2
44	I-80	I	NJTPA	Bergen	Lodi Borough	NJ 17 (Int 64/64A)	64.5	NJ 17 (Int 64/64A)	65.0	0.5	Y	NA	FP 2
43	NJ 17	NI	NJTPA	Bergen	Lodi Borough	I-80 EB	9.5	I-80 EB	10.0	0.5	Addition	NA	FP 2
45	NJ 17	NI	NJTPA	Bergen	Mahwah Twp	Stag Hill Rd	26.0	US 202	26.3	0.3	Addition	NA	FP 2
47	NJ 17	NI	NJTPA	Bergen	Mahwah Twp	CR 85	24.5	CR 85	25.0	0.5	Addition	NA	FP 2
46	NJ 17	NI	NJTPA	Bergen	Mahwah Twp	CR 100	25.6	US 202	26.01	0.4	Addition	NA	TTI/Crash
58	I-80	I	NJTPA	Bergen	Multiple	Int with NJ 17	64	Int with NJ 17	65.5	1.5	Y	NA	Speed/Crash; TTI/Crash
48	I-95	I	NJTPA	Bergen	Multiple	W Spur Split	71.3	GWB	77.4	6.1	Y	NA	Speed/Crash; TTI/Crash
56	I-95 W Spur	I	NJTPA	Bergen	Multiple	Hackensack River	9.9	I-95	11.2	1.3	Y	NA	Speed/Crash
55	I-95 W Spur	I	NJTPA	Bergen	Multiple	Int 16W	6	Int 18W	9	3.0	Y	NA	Speed/Crash; TTI/Crash
57	NJ 17	NI	NJTPA	Bergen	Multiple	CR 56 (Essex Street)	10.1	Vic. Of Garden State Plaza	12.4	2.3	Addition	NA	Bergen County
60	NJ 17	NI	NJTPA	Bergen	Multiple	Sears Dist Ctr	10.5	Sears Dist Ctr	10.5	0.0	Addition	NA	FP 2

Map ID	Route	Roadway Type	MPO	County	Municipality	Start	MP Start	End	MP End	Length	NHFN	CUFC-CRFC	How Identified
54	NJ 17	NI	NJTPA	Bergen	Multiple	CR 40	8.3	I-80	9.9	1.6	Addition	NA	GMAP
61	NJ 17	NI	NJTPA	Bergen	Multiple	Garland Way	3.47	Pierrepont Ave	4.49	1.0	Addition	NA	Speed/Crash
62	NJ 17	NI	NJTPA	Bergen	Multiple	NJ 120	5.76	Broad Street	5.91	0.2	Addition	NA	Speed/Crash
49	NJ 17	NI	NJTPA	Bergen	Multiple	CR 36	6.65	CR 44	10.91	4.3	Addition	NA	Speed/Crash; TTI/Crash
53	NJ 17	NI	NJTPA	Bergen	Multiple	CR 62	11.46	Century Rd.	13.2	1.7	Addition	NA	Speed/Crash; TTI/Crash
59	NJ 17	NI	NJTPA	Bergen	Multiple	CR 32	4.7	CR S32	5.11	0.4	Addition	NA	Speed/Crash; TTI/Crash
51	US 46	NI	NJTPA	Bergen	Multiple	CR 503	69.52	Main St	70.42	0.9		CUFC	Speed/Crash; TTI/Crash
50	US 46	NI	NJTPA	Bergen	Multiple	Rail	71.52	US 1/9	72.09	0.6		CUFC	Speed/Crash; TTI/Crash
63	NJ 93	NI	NJTPA	Bergen	Palisades Pk Borough	Linden Ave.	0.56	Homestead Ave	0.92	0.4		CUFC	Speed/Crash; TTI/Crash
65	NJ 17	NI	NJTPA	Bergen	Paramus Borough	CR 61	11.8	CR 80	15.8	4.0	Addition	NA	FP 2
64	NJ 4	NI	NJTPA	Bergen	Paramus Borough	GSP	2.9	CR 61	3.54	0.6		CUFC	Speed/Crash; TTI/Crash
67	NJ 93	NI	NJTPA	Bergen	Ridgefield Borough	US 1/9	0	Industrial Ave	0.2	0.2		CUFC	Speed/Crash; TTI/Crash
66	US 1/9	NI	NJTPA	Bergen	Ridgefield Borough		49.3		50.1	0.8	Addition	NA	Speed/Crash; TTI/Crash
68	US 1/9	NI	NJTPA	Bergen	Ridgefield Borough	International Way	47.48	NJ 21	47.84	0.4	Addition	NA	Speed/Crash; TTI/Crash
69	NJ 17	NI	NJTPA	Bergen	Rutherford Borough	NJ 3	3.8	NJ 3	4.5	0.7	Addition	NA	FP 2
70	NJ 4	NI	NJTPA	Bergen	Teaneck Borough	Windsor Road	6.9	Palisade Avenue	7.1	0.1		CUFC	STIP
73	I-280	I	NJTPA	Essex	Multiple	MLK Blvd	14		15.4	1.4	Y	NA	Speed/Crash; TTI/Crash
90	I-78	I	NJTPA	Essex	Newark	I-95 (Int 14)	58.5	NJ 440 (Int 14A)	62.0	3.5	Y	NA	GMAP
84	CR 510	NI	NJTPA	Essex	Newark City	Broad Street	29.27	NJ 21	29.58	0.3		CUFC	Speed/Crash; TTI/Crash
88	Delancy Street	NI	NJTPA	Essex	Newark City	I-95	0.0	US 1/9	1.0	1.0		CUFC	STIP
87	Doremus Avenue	NI	NJTPA	Essex	Newark City	US 1/9T (Int)	2.6	US 1/9T (Int)	3.0	0.4	Addition	NA	GMAP
86	Doremus Avenue	NI	NJTPA	Essex	Newark City	Wilson Avenue	1.1	Raymond Blvd	2.5	1.4	Addition	NA	Portway
85	Doremus Avenue	NI	NJTPA	Essex	Newark City	Port Street	0.0	Wilson Avenue	1.1	1.1	Addition	NA	Portway
82	I-78	I	NJTPA	Essex	Newark City	US 1/9 (Int 57)	57.0	US 1/9 (Int 57)	58.0	1.0	Y	NA	FP 2
77	I-78	I	NJTPA	Essex	Newark City	NJ 27	56.0	NJTPK	60.0	4.0	Y	NA	FP 2
81	I-78	I	NJTPA	Essex	Newark City	Int 56	56	Int 58	60.5	4.5	Y	NA	Speed/Crash; TTI/Crash

Map ID	Route	Roadway Type	MPO	County	Municipality	Start	MP Start	End	MP End	Length	NHFN	CUFC-CRFC	How Identified
76	I-95	I	NJTPA	Essex	Newark City	1&9T (Int 15E)	61.0	1&9T (Int 15E)	62.0	1.0	Y	NA	Portway
91	I-95	I	NJTPA	Essex	Newark City	Int 14	58		65	7.0	Y	NA	Speed/Crash; TTI/Crash
79	NJ 21	NI	NJTPA	Essex	Newark City	Emmett Street	1	South Street	1.31	0.3	Addition	NA	Speed/Crash; TTI/Crash
83	NJ 21	NI	NJTPA	Essex	Newark City	Lafayette Street	2	Cherry Street	2.38	0.4	Y	NA	Speed/Crash; TTI/Crash
80	US 1/9	NI	NJTPA	Essex	Newark City	I-278 (Int)	42.2	I-278 (Int)	42.4	0.2	Addition	NA	GMAP
74	I-78	I	NJTPA	Essex/ Hudson	Multiple	I-95 (Int 14)	58.5	NJ 139 (Int 14C)	66.5	8.0	Y	NA	GMAP
92	I-78	I	NJTPA	Essex/ Hudson	Multiple	York St	65.5	Grove St	66.9	1.4	Y	NA	PANYNJ
93	I-95	I	NJTPA	Essex/ Hudson	Multiple	Passaic River	62.3	Passaic River	62.7	0.4	Y	NA	FP 2
75	I-95	I	NJTPA	Essex/ Hudson	Multiple	I-78 (Int 14)	58.0	I-78 (Int 14)	60.0	2.0	Y	NA	GMAP
89	US 1/9	NI	NJTPA	Essex/ Hudson	Multiple	NJ 93	62.07	US 46	62.8	0.7	Addition	NA	Speed/Crash; TTI/Crash
318	N/A	NI	NJTPA	Essex/ Hudson	Multiple	TBD (New Passaic River Crossing)	TBD	TBD (New Passaic River Crossing)	TBD	0.0			Portway
94	US 46	NI	NJTPA	Essex/ Passaic	Multiple	CR 613	55.0	NJ 23	56.0	1.0		CUFC	GMAP
95	NJ 440	NI	NJTPA	Hudson	Bayonne City	I-78 (Int 14)	18.0	Bayonne Bridge	22.5	4.5	Addition	NA	PANYNJ
96	CR 508	NI	NJTPA	Hudson	Harrison Town	I-280	12.53	7th Street	13.06	0.5		CUFC	Speed/Crash; TTI/Crash
102	CR 501	NI	NJTPA	Hudson	Jersey City	Newark Avenue	30.85	NJ 139	31.11	0.3		CUFC	Speed/Crash; TTI/Crash
104	I-78	I	NJTPA	Hudson	Jersey City	Vic of Int 14A	61	Vic of Int 14A	62	1.0	Y	NA	Speed/Crash; TTI/Crash
103	I-78	I	NJTPA	Hudson	Jersey City	NJ 440 (Int 14A)	61.5	NJ 440 (Int 14A)	62.5	1.0	Y	NA	GMAP/STIP
97	NJ 139	NI	NJTPA	Hudson	Jersey City	US 1/9	0	Summit Ave	0.47	0.5		CUFC	Speed/Crash; TTI/Crash
98	NJ 440	NI	NJTPA	Hudson	Jersey City	Culver Ave	25.56	US 1/9T	26.18	0.6	Addition	NA	Speed/Crash; TTI/Crash
101	NJ 7	NI	NJTPA	Hudson	Jersey City	Wittpenn Bridge	0.3	Wittpenn Bridge	0.7	0.4		CUFC	Portway
100	US 1/9	NI	NJTPA	Hudson	Jersey City	James Road	64.6	I-95	64.8	0.2	Addition	NA	Speed/Crash; TTI/Crash
99	US 1/9T	NI	NJTPA	Hudson	Jersey City	Hackensack River	1.85	Duncan Avenue	2.74	0.9	Addition	NA	Speed/Crash; TTI/Crash
105	CR 659	NI	NJTPA	Hudson	Kearny Town	US 1/9T (Int)	1.7	US 1/9T (Int)	1.8	0.1		CUFC	GMAP/STIP
108	CR 659	NI	NJTPA	Hudson	Kearny Town	Pennsylvania Ave	1.2	Pennsylvania Ave	1.2	0.0		CUFC	Portway
106	I-95 W Spur	I	NJTPA	Hudson	Kearny Town	I-280 (Int 15W)	3.0	I-280 (Int 15W)	3.5	0.5	Y	NA	STIP
107	NJ 7	NI	NJTPA	Hudson	Kearny Town	Drainage Project	1.7		3.6	1.9		CUFC	STIP

Map ID	Route	Roadway Type	MPO	County	Municipality	Start	MP Start	End	MP End	Length	NHFN	CUFC-CRFC	How Identified
111	I-78	I	NJTPA	Hudson	Multiple	I-78 (Int 14)	59.5	Newark Bay Bridge apex	60.5	1.0	Y	NA	PANYNJ
112	NJ 3	NI	NJTPA	Hudson	Multiple	I-95	9.7	NJ 495	10.5	0.8	Addition	NA	Speed/Crash; TTI/Crash
113	NJ 495	NI	NJTPA	Hudson	Multiple	US 1	0.9	Summit Ave	1.33	0.4		CUFC	Speed/Crash; TTI/Crash
110	NJ 7	NI	NJTPA	Hudson	Multiple	US 1/9	0	Fish House Rd	0.73	0.7		CUFC	Speed/Crash; TTI/Crash
235	US 1/9	NI	NJTPA	Hudson	Multiple	US 1&9T	52.0	I-495	57.3	5.3	Addition	NA	PANYNJ
226	US 1/9T	NI	NJTPA	Hudson	Multiple	Doremus Ave	0.5	US 1&9	4.4	3.9	Addition	NA	PANYNJ
114	NJ 495	NI	NJTPA	Hudson	North Bergen	US 1&9T	1.0	Lincoln Tunnel Helix	2.0	1.0	Y	NA	PANYNJ
115	I-95	I	NJTPA	Hudson	Secaucus Town	CR 653	66	NJ 3	67.8	1.8	Y	NA	Speed/Crash; TTI/Crash
116	NJ 495 Ramp	NI	NJTPA	Hudson	Secaucus Town	NJ 495		NJ Turnpike		0.0		CUFC	Speed/Crash
117	CR 501	NI	NJTPA	Hudson	Union City	28th Street	33.94	32nd Street	34.22	0.3		CUFC	Speed/Crash; TTI/Crash
118	NJ 495	NI	NJTPA	Hudson	Weehawken Twp	Helix	2.0	Helix	2.5	0.5		CUFC	GMAP
119	NJ 3	NI	NJTPA	Hudson/Bergen	Multiple	Hackensack River	8.3	Hackensack River	8.7	0.4	Addition	NA	Speed/Crash
121	I-78	I	NJTPA	Hunterdon	Bloomsbury Borough	NJ 173 (Int 7)	7.0	NJ 173 (Int 7)	7.0	0.0	Y	NA	FP 2
120	NJ 173	NI	NJTPA	Hunterdon	Bloomsbury Borough	Main Street	3.68	I-78	3.94	0.3		CUFC	Speed/Crash; TTI/Crash
122	CR 519	NI	NJTPA	Hunterdon	Holland Twp	CR 631	14.9		16.6	1.7		CRFC	STIP
123	US 202	NI	NJTPA	Hunterdon	Multiple	NJ 31	11.44	CR 650	11.91	0.5		CUFC	Speed/Crash; TTI/Crash
124	NJ 173	NI	NJTPA	Hunterdon	Union Twp	Stoltz Rd	8.0	I-78	11.6	3.6		CRFC/ CUFC	NJ FMS
125	I-78	I	NJTPA	Hunterdon/Somerset	Multiple	CR 523	23.6	I-287	31.2	7.6	Y	NA	FP 2
126	I-95	I	NJTPA	Middlesex	Carteret Borough	CR 602 (Int 12 - Tremley Point Connector)	50.0	CR 602 (Int 12 - Tremley Point Connector)	51.0	1.0	Y	NA	GMAP
127	US 130	NI	NJTPA	Middlesex	Cranbury Twp	Approaching CR 535	71.6	CR 535	72.09	0.5		CUFC	Speed/Crash; TTI/Crash
129	CR 527	NI	NJTPA	Middlesex	E Brunswick City	Approaching NJ 18	42.84	NJ 18	42.92	0.1		CUFC	Speed/Crash; TTI/Crash
141	I-95	I	NJTPA	Middlesex	E Brunswick City	Ramps - Int 7		Ramps - Int 7		0.0	Y	NA	Speed/Crash

Map ID	Route	Roadway Type	MPO	County	Municipality	Start	MP Start	End	MP End	Length	NHFN	CUFC-CRFC	How Identified
135	CR 514	NI	NJTPA	Middlesex	Edison Twp	CR 667	28.8	College Dr	29.24	0.4		CUFC	Speed/Crash; TTI/Crash
137	CR 514	NI	NJTPA	Middlesex	Edison Twp	US 1	26.74	Park Way	27.36	0.6		CUFC	Speed/Crash; TTI/Crash
136	CR 529	NI	NJTPA	Middlesex	Edison Twp	CR 514	0	Prospect Ave	0.51	0.5		CUFC	Speed/Crash; TTI/Crash
130	I-287	I	NJTPA	Middlesex	Edison Twp	US 1 (Int 1)	0.5	US 1 (Int 1)	1.2	0.7	Y	NA	FP 2
138	I-287	I	NJTPA	Middlesex	Edison Twp	NJ 27 (Int 2)	2.0	NJ 27 (Int 2)	2.5	0.5	Y	NA	FP 2
131	I-287	I	NJTPA	Middlesex	Edison Twp	I-95	0		1.5	1.5	Y	NA	Speed/Crash; TTI/Crash
133	I-95	I	NJTPA	Middlesex	Edison Twp	NJ 440 (Int 10)	42.5	NJ 440 (Int 10)	43.0	0.5	Y	NA	GMAP
132	I-95	I	NJTPA	Middlesex	Edison Twp	Ramps - Int 8A		Ramps - Int 8A		0.0	Y	NA	Speed/Crash
134	NJ 440	NI	NJTPA	Middlesex	Edison Twp	I-95	0	CR 514	0.45	0.5	Addition	NA	Speed/Crash; TTI/Crash
140	CR 501	NI	NJTPA	Middlesex	Metuchen Borough	App NJ 27	3.22	NJ 27	3.36	0.1		CUFC	Speed/Crash; TTI/Crash
139	NJ 27	NI	NJTPA	Middlesex	Metuchen Borough	Rose St	21.42	CR 501	21.86	0.4		CUFC	Speed/Crash; TTI/Crash
128	I-95	I	NJTPA	Middlesex	Monroe Twp	Ramps - Int 9		Ramps - Int 9		0.0	Y	NA	Speed/Crash
144	CR 529	NI	NJTPA	Middlesex	Multiple	Seeley Ave	4.31	CR 665	5.16	0.9		CUFC	Speed/Crash; TTI/Crash
142	NJ 18	NI	NJTPA	Middlesex	Multiple	NJ Turnpike	39.56	Paulus Blvd	40.9	1.3		CUFC	Speed/Crash; TTI/Crash
143	US 9	NI	NJTPA	Middlesex	Multiple	Orchard Street	129.57	Raritan Street	130.46	0.9		CUFC	Speed/Crash; TTI/Crash
145	NJ 440	NI	NJTPA	Middlesex	Perth Amboy City	NJ 35	3.41	CR 653	3.68	0.3	Addition	NA	Speed/Crash
147	NJ 35	NI	NJTPA	Middlesex	South Amboy City	App US 9	49.2	US 9	49.36	0.2		CUFC	Speed/Crash; TTI/Crash
146	US 9	NI	NJTPA	Middlesex	South Amboy City	NJ 35 (Int)	129.7	NJ 35 (Int)	130.2	0.5		CUFC	STIP
149	CR 535	NI	NJTPA	Middlesex	S Brunswick Twp	Vic NJ 32	17.02	Vic NJ 32	17.69	0.7		CUFC	Speed/Crash; TTI/Crash
148	NJ 32	NI	NJTPA	Middlesex	S Brunswick Twp	US 130	0	I-95	1.18	1.2		CUFC	Speed/Crash; TTI/Crash
150	US 130	NI	NJTPA	Middlesex	S Brunswick Twp	Vic NJ 32	74.1	Vic NJ 32	74.6	0.5		CUFC	Speed/Crash; TTI/Crash
152	I-287	I	NJTPA	Middlesex	S.Plainfield Borough	Durham Ave (Int 4)	4.5	Durham Ave (Int 4)	5.0	0.5	Y	NA	FP 2
151	I-287	I	NJTPA	Middlesex	S. Plainfield Borough	Durham Ave (Int 4)	4.6	Washington Avenue	6.4	1.8	Y	NA	Speed/Crash; TTI/Crash
157	I-95	I	NJTPA	Middlesex	Woodbridge Twp	Edison/Cleveland Service Areas	92.5	Edison/Cleveland Service Areas	92.9	0.4	Y	NA	FP 2
153	NJ 440	NI	NJTPA	Middlesex	Woodbridge Twp	CR 656 (Int 52)	1.48	US 9	2.27	0.8	Addition	NA	Speed/Crash

Map ID	Route	Roadway Type	MPO	County	Municipality	Start	MP Start	End	MP End	Length	NHFN	CUFC-CRFC	How Identified
156	US 1	NI	NJTPA	Middlesex	Woodbridge Twp	CR 650	37.15	Woodbridge Ave	37.53	0.4	Addition	NA	Speed/Crash
155	US 1	NI	NJTPA	Middlesex	Woodbridge Twp	CR 604	35.69	US 9	35.88	0.2	Addition	NA	Speed/Crash; TTI/Crash
158	US 9	NI	NJTPA	Middlesex	Woodbridge Twp	CR 604	136.06	US 1	136.38	0.3		CUFC	Speed/Crash
154	US 9	NI	NJTPA	Middlesex	Woodbridge Twp	Edison Bridge	132.5	CR 616	133.36	0.9		CUFC	Speed/Crash; TTI/Crash
317	N/A	NI	NJTPA	Middlesex/Union	Multiple	TBD (Tremley Point Connector)	TBD	TBD (Tremley Point Connector)	TBD	0.0			Portway
159	CR 524	NI	NJTPA	Monmouth	Farmingdale Borough	Entering Farmingdale	30.27	Farmingdale municipal limit	31.18	0.9		CRFC	Monmouth County
160	CR 547	NI	NJTPA	Monmouth	Farmingdale Borough	Entering Farmingdale	17.6	Farmingdale municipal limit	17.87	0.3		CUFC	Monmouth County
161	NJ 33	NI	NJTPA	Monmouth	Howell Twp	NJ 33 Eastbound truck traffic making the turn onto Northbound NJ 34	34.7	NJ 34 Southbound truck traffic making the turn onto Westbound NJ 33	34.9	0.2		CUFC	Monmouth County Study JLUS
162	NJ 34	NI	NJTPA	Monmouth	Howell Twp	NJ 33 Eastbound truck traffic making the turn onto Northbound NJ 34	8.8	NJ 34 Southbound truck traffic making the turn onto Westbound NJ 33	9.0	0.2		CUFC	Monmouth County Study JLUS
164	CR 28	NI	NJTPA	Monmouth	Multiple	Entering Monmouth County	0.0	CR 524	0.8	0.8		CUFC	Monmouth County Study SSP - Allentown Freight
163	CR 524	NI	NJTPA	Monmouth	Multiple	Entering Monmouth County	5.4	CR 539 SPUR (Sharon Station Road)	9.5	4.1		CUFC	Monmouth County Study SSP - Allentown Freight
165	CR 526	NI	NJTPA	Monmouth	Multiple	Entering Monmouth County	10.1	CR 539 SPUR (Sharon Station Road)	12.8	2.7		CRFC	Monmouth County Study SSP - Allentown Freight
166	CR 539	NI	NJTPA	Monmouth	Multiple	Entering Allentown/Enter	40.8	Vicinity of Municipal limits of	48.5	7.7		CRFC	Monmouth County Study SSP - Allentown Freight

Map ID	Route	Roadway Type	MPO	County	Municipality	Start	MP Start	End	MP End	Length	NHFN	CUFC-CRFC	How Identified
						ing Monmouth County		Monmouth/Mercer Cty					
168	CR 10	NI	NJTPA	Monmouth	Red Bank Borough	NJ 35	0.57	Maple St.	0.64	0.1		CUFC	Speed/Crash
167	NJ 35	NI	NJTPA	Monmouth	Red Bank Borough	CR 10	33.84	Allen Pl	34	0.2		CUFC	Speed/Crash; TTI/Crash
169	CR 539 SPUR (Sharon Station Road)	NI	NJTPA	Monmouth	Upper Freehold Twp	CR 539	0.0	CR524	2.3	2.3		CRFC	Monmouth County Study SSP - Allentown Freight
171	CR 547	NI	NJTPA	Monmouth	Wall Twp		20	NJ 33	20.79	0.8		CUFC	Speed/Crash
170	NJ 33	NI	NJTPA	Monmouth	Wall Twp	NJ 34	35.86	Campus Pkwy	36.15	0.3		CUFC	Speed/Crash; TTI/Crash
172	NJ 34	NI	NJTPA	Monmouth	Wall Twp	Approaching NJ 33	7.6	NJ 33	7.72	0.1		CUFC	Speed/Crash; TTI/Crash
173	NJ 24	NI	NJTPA	Morris	Chatham Borough	Vic of CR 649	6.4	Vic of CR 649	6.5	0.1		CUFC	Speed/Crash; TTI/Crash
176	I-287	I	NJTPA	Morris	Hanover Twp	NJ 10 (Int 39)	39.0	NJ 10 (Int 39)	40.0	1.0	Y	NA	FP 2
175	I-287	I	NJTPA	Morris	Hanover Twp		39.1	NJ 10	39.55	0.4	Y	NA	TTI/Crash
174	CR 510W	NI	NJTPA	Morris	Morristown Town	CR 510	0.3	I-287	0.7	0.4		CUFC	Speed/Crash; TTI/Crash
177	NJ 124	NI	NJTPA	Morris	Morristown Town	US 202	0	Elm St	0.39	0.4		CUFC	Speed/Crash; TTI/Crash
178	US 202	NI	NJTPA	Morris	Morristown Town	NJ 124	44.5	CR 510	44.6	0.1		CUFC	Speed/Crash; TTI/Crash
179	I-80	I	NJTPA	Morris	Mount Arlington Borough	CR 615 (Int 30)	30.5	CR 615 (Int 30)	31.0	0.5	Y	NA	FP 2/STIP
181	I-80	I	NJTPA	Morris	Multiple	CR 513	37.6	I-280	46.5	8.9	Y	NA	FP 2
183	I-80	I	NJTPA	Morris	Multiple	NJ 15 (Int 34)	32.5	NJ 15 (Int 34)	34.8	2.3	Y	NA	FP 2
182	I-80	I	NJTPA	Morris	Multiple	US 46	28.2	CR 621	47.6	19.4	Y	NA	NJ FMS
180	NJ 24	NI	NJTPA	Morris	Multiple	I-287	0	Appr. I-287	1.2	1.2		CUFC	Speed/Crash; TTI/Crash
187	I-287	I	NJTPA	Morris	Parsippany-Troy Hills Twp	I-80 (Int 41)	41.5	I-80 (Int 41)	42.2	0.7	Y	NA	FP 2
188	I-287	I	NJTPA	Morris	Parsippany-Troy Hills Twp	I-80	41.5	I-80	42.5	1.0	Y	NA	Speed/Crash



Map ID	Route	Roadway Type	MPO	County	Municipality	Start	MP Start	End	MP End	Length	NHFN	CUFC-CRFC	How Identified
185	I-80	I	NJTPA	Morris	Parsippany-Troy Hills Twp	I-287 (Int 43)	43.5	I-287 (Int 43)	44.0	0.5	Y	NA	FP 2
186	I-80	I	NJTPA	Morris	Parsippany-Troy Hills Twp	I-287	42.6	I-287	44	1.4	Y	NA	Speed/Crash
184	I-80	I	NJTPA	Morris	Parsippany-Troy Hills Twp	US 202	42.4		42.9	0.5	Y	NA	TTI/Crash
189	I-80	I	NJTPA	Morris	Rockaway Twp	CR 513 (Int 37)	37.5	CR 513 (Int 37)	38.0	0.5	Y	NA	FP 2
190	I-95	I	NJTPA	Multiple	Multiple	I-287	42.2	GWB	78.0	35.8	Y	NA	FP 2
192	NJ 88	NI	NJTPA	Ocean	Lakewood Twp	US 9	0	Lexington Avenue	0.24	0.2		CUFC	Speed/Crash; TTI/Crash
191	US 9	NI	NJTPA	Ocean	Lakewood Twp	Approaching NJ 88	101.4	4th Street	102	0.6		CUFC	Speed/Crash; TTI/Crash
194	NJ 21	NI	NJTPA	Passaic	Clifton City	Approaching NJ 3	9.3	NJ 3	9.5	0.2	Y	NA	Speed/Crash
195	NJ 3	NI	NJTPA	Passaic	Clifton City	US 46 (int)	0.0	US 46 (Int)	0.5	0.5	Addition	NA	GMAP
193	NJ 3	NI	NJTPA	Passaic	Clifton City	CR 622	2.55	CR 507	5.01	2.5	Addition	NA	Speed/Crash; TTI/Crash
196	I-80	I	NJTPA	Passaic	Multiple	Passaic River	56.3	Passaic River	56.4	0.1	Y	NA	FP 2
199	Fair Lawn Avenue	NI	NJTPA	Passaic	Paterson City	NJ 20	0.0	County Line	0.1	0.1		CUFC	STIP
198	I-80	I	NJTPA	Passaic	Paterson City	NJ 20 (Int 60)	60.0	NJ 20 (Int 60)	60.5	0.5	Y	NA	FP 2
197	I-80	I	NJTPA	Passaic	Paterson City	East of NJ 19	58.3		58.6	0.3	Y	NA	Speed/Crash
200	I-80	I	NJTPA	Passaic	Totowa Borough	NJ 62 (Int 55)	55.0	NJ 62 (Int 55)	55.5	0.5	Y	NA	FP 2
71	I-80	I	NJTPA	Passaic	Wayne Twp	CR 613	52.7	NJ 23	53.9	1.2	Y	NA	FP 2
201	I-80	I	NJTPA	Passaic	Wayne Twp	NJ 23 (Int 53)	53.5	NJ 23 (Int 53)	54.0	0.5	Y	NA	FP 2
202	US 46	NI	NJTPA	Passaic	Wayne Twp	NJ 23/I-80	56.0	NJ 23/I-80	56.5	0.5		CUFC	GMAP
203	I-80	I	NJTPA	Passaic/ Bergen	Multiple	CR 648	59.8	GSP	62.6	2.8	Y	NA	FP 2
205	I-287	I	NJTPA	Somerset	Bedminster Twp	I-78 (Int 21)	20.8	I-78 (Int 21)	21.5	0.7	Y	NA	FP 2

Map ID	Route	Roadway Type	MPO	County	Municipality	Start	MP Start	End	MP End	Length	NHFN	CUFC-CRFC	How Identified
204	I-78	I	NJTPA	Somerset	Bedminster Twp	I-287 (Int 29)	30.0	I-287 (Int 29)	31.0	1.0	Y	NA	FP 2
206	NJ 28	NI	NJTPA	Somerset	Bound Brook Borough	John Street	7.86	East Street	8.09	0.2		CUFC	Speed/Crash; TTI/Crash
208	I-287	I	NJTPA	Somerset	Bridgewater Twp	US 22 (Int 14A)	14.0	US 22 (Int 14A)	14.5	0.5	Y	NA	FP 2
207	I-287	I	NJTPA	Somerset	Bridgewater Twp	NJ 28	13.8	US 22	14.4	0.6	Y	NA	Speed/Crash; TTI/Crash
210	US 22	NI	NJTPA	Somerset	Bridgewater Twp	US 202/206	33.9	I-287	37.1	3.3		CUFC	GMAP
209	US 22	NI	NJTPA	Somerset	Bridgewater Twp	US 202/206	33.8	CR 643	34.17	0.4		CUFC	Speed/Crash
211	US 206	NI	NJTPA	Somerset	Hillsborough Twp		66.4		68.6	2.2		CUFC	GMAP
214	I-287	I	NJTPA	Somerset	Multiple	Raritan River Bridge	9.85	Raritan River Bridge	10.5	0.7	Y	NA	Speed/Crash; TTI/Crash
212	NJ 28	NI	NJTPA	Somerset	Multiple	Approaching Somerville Cir	2	Middough St.	2.66	0.7		CUFC	Speed/Crash; TTI/Crash
213	US 202/206	NI	NJTPA	Somerset	Multiple	CR 567	23.9	US 22 Int	25.2	1.3		CUFC	Speed/Crash; TTI/Crash
215	CR 527	NI	NJTPA	Somerset	S. Bound Brook Borough	Clinton St	53	Canal Rd	53.12	0.1		CUFC	Speed/Crash; TTI/Crash
217	NJ 94	NI	NJTPA	Sussex	Newton Town	Divison Street	22.32	US 206	22.47	0.1		CUFC	Speed/Crash
216	US 206	NI	NJTPA	Sussex	Newton Town	Liberty Street	108.97	Hamilton St.	109.49	0.5		CUFC	TTI/Crash
223	NJ 27	NI	NJTPA	Union	Elizabeth City	App NJ 439	35.28	NJ 439	35.35	0.1		CUFC	Speed/Crash; TTI/Crash
220	NJ 439	NI	NJTPA	Union	Elizabeth City	CR 623	0.34	Erica Ave	1	0.7		CUFC	Speed/Crash; TTI/Crash
222	NJ 439	NI	NJTPA	Union	Elizabeth City	CR 612	1.71	Wyoming St	2.16	0.5		CUFC	Speed/Crash; TTI/Crash
221	NJ 81	NI	NJTPA	Union	Elizabeth City	NJTPK Toll Booth	0	US 1/9	1.18	1.2	Addition	NA	Speed/Crash; TTI/Crash
218	North Ave	NI	NJTPA	Union	Elizabeth City	NJTPK (I-95)		US 1&9		0.0	Addition	NA	PANYNJ

Map ID	Route	Roadway Type	MPO	County	Municipality	Start	MP Start	End	MP End	Length	NHFN	CUFC-CRFC	How Identified
219	US 1/9	NI	NJTPA	Union	Elizabeth City	Avenue C	40.0	Sylvan St.	40.1	0.1	Addition	NA	STIP
72	I-78	I	NJTPA	Union	Hillside Twp		53.8	Winans Avenue	54.32	0.5	Y	NA	TTI/Crash
224	US 22	NI	NJTPA	Union	Hillside Twp	Vic of CR 509	57.2	Vic of CR 509	57.3	0.1		CUFC	Speed/Crash; TTI/Crash
227	CR 514	NI	NJTPA	Union	Linden City	Rail	40	CR 615	40.29	0.3		CUFC	Speed/Crash; TTI/Crash
229	CR 615 (Stiles Street)	NI	NJTPA	Union	Linden City	US 1&9	0.0	NJ 27	1.4	1.4		CUFC	Union County
78	US 1/9	NI	NJTPA	Union	Linden City	Vic of I-278	41.78	Vic of I-278	42.48	0.7	Addition	NA	Speed/Crash; TTI/Crash
228	US 1/9	NI	NJTPA	Union	Linden City	Rahway River	38.45	Milton Ave	39.23	0.8	Addition	NA	Speed/Crash; TTI/Crash
230	NJ 28	NI	NJTPA	Union	Middlesex Borough		11.1	Clinton St.	11.25	0.2		CUFC	Speed/Crash; TTI/Crash
233	I-78	I	NJTPA	Union	Multiple	NJ 24	49.0	Winans Avenue	54.2	5.2	Y	NA	FP 2
232	I-78	I	NJTPA	Union	Multiple	Vic Int 49	50.5	Vic Int 49	51.4	0.9	Y	NA	Speed/Crash; TTI/Crash
234	I-95	I	NJTPA	Union	Multiple	I-278 (Int 13)	53.0	I-278 (Int 13)	54.0	1.0	Y	NA	GMAP
231	I-95	I	NJTPA	Union	Multiple	Int 13	53.4	Int 13A	57	3.6	Y	NA	Speed/Crash; TTI/Crash
236	CR 514	NI	NJTPA	Union	Rahway City		37.9	Old US 1&9	38.22	0.3		CUFC	Speed/Crash; TTI/Crash
237	NJ 27	NI	NJTPA	Union	Rahway City	CR 35	27.29	Grove St	27.7	0.4		CUFC	Speed/Crash; TTI/Crash
109	US 1/9	NI	NJTPA	Union	Rahway City	North Ave	45.3	NJ 81	45.73	0.4	Addition	NA	Speed/Crash; TTI/Crash
238	CR 617	NI	NJTPA	Union	Roselle Park Twp	CR 610	4.7	NJ 28	4.8	0.1		CUFC	STIP
243	509 Spur	NI	NJTPA	Union	Springfield Twp	Owaissa Ave	2.78	NJ 124	2.96	0.2		CUFC	Speed/Crash; TTI/Crash
240	CR 577	NI	NJTPA	Union	Springfield Twp	NJ 124	0	Taft Ln	0	0.0		CUFC	Speed/Crash; TTI/Crash
241	NJ 124	NI	NJTPA	Union	Springfield Twp	Center St	11.06	124W Split	11.3	0.2		CUFC	Speed/Crash; TTI/Crash
239	NJ 24	NI	NJTPA	Union	Springfield Twp	CR 527	9.6	I-78	10.42	0.8		CUFC	Speed/Crash; TTI/Crash
242	NJ 82	NI	NJTPA	Union	Springfield Twp	NJ 124	0	Marion Ave	0.29	0.3		CUFC	Speed/Crash; TTI/Crash
245	CR 509	NI	NJTPA	Union	Westfield Town	CR 613	0.21	CR 613	0.27	0.1		CUFC	Speed/Crash
246	CR 613	NI	NJTPA	Union	Westfield Town		1.45	NJ 28	1.8	0.4		CUFC	Speed/Crash
244	NJ 28	NI	NJTPA	Union	Westfield Town	CR 648	19.49	Elmer St	20.06	0.6		CUFC	Speed/Crash; TTI/Crash
247	I-78	I	NJTPA	Warren	Franklin Twp	CR 632 (Int 6)	6.0	CR 632 (Int 6)	6.0	0.0	Y	NA	FP 2

Map ID	Route	Roadway Type	MPO	County	Municipality	Start	MP Start	End	MP End	Length	NHFN	CUFC-CRFC	How Identified
248	I-80	I	NJTPA	Warren	Knowlton Twp	NJ 94/US 46 (Int 4)	4.0	NJ 94/US 46 (Int 4)	5.0	1.0	Y	NA	FP 2
249	I-80	I	NJTPA	Warren	Multiple	I-78 (Int 21)	21.0	US 202/206 (Int 22)	22.5	1.5	Y	NA	GMAP
251	NJ 122	NI	NJTPA	Warren	Pohatcong Twp	Bliss Blvd	2.07	US 22	2.42	0.4		CRFC	Speed/Crash; TTI/Crash
250	US 22	NI	NJTPA	Warren	Pohatcong Twp	CR 638	4.02	I-78	4.89	0.9		CUFC	Speed/Crash; TTI/Crash
252	NJ 173	NI	NJTPA	Warren/ Hunterdon	Multiple	I-78	0.0	Fox Hill Road	8.0	8.0		CRFC/ CUFC	NJ FMS
253	CR 619	NI	SJTPO	Atlantic	Buena Vista Twp	CR 655	2.89	US 40/CR 557	3.12	0.2		CUFC	Atlantic County
254	CR 563	NI	SJTPO	Atlantic	Galloway Twp	Country Club Drive	12.78	US 30	13.74	1.0		CUFC	Atlantic County
256	CR 616 (Mill Street)	NI	SJTPO	Atlantic	Hamilton Twp	CR 559	0	US 40/NJ 50	0.36	0.4		CUFC	Atlantic County
255	US 40	NI	SJTPO	Atlantic	Hamilton Twp	Cantillon Blvd	46.41	19th Street	46.72	0.3		CUFC	Atlantic County
257	CR 621	NI	SJTPO	Cape May	Lower Twp	Middle Thorofare Bridge	1.5	Middle Thorofare Bridge	2.0	0.5		CRFC	SJ Ec. Devp Study
258	NJ 55	NI	SJTPO	Cumberland	Millville City	NJ 49 (Int 24)	24.5	NJ 49 (Int 24)	24.7	0.2		CUFC	SJ Ec. Devp Study
259	NJ 55	NI	SJTPO	Cumberland	Millville City	NJ 47 (Int 27)	27.7	NJ 47 (Int 27)	27.9	0.2		CRFC/ CUFC	SJ Ec. Devp Study
260	CR 555	NI	SJTPO	Cumberland	Vineland City	NJ 55	12.07	CR 655	12.17	0.1		CUFC	Cumberland County
316	CR 674	NI	SJTPO	Cumberland	Vineland City	Mill Road	0.7	Mill Road	0.8	0.1		CUFC	SJTPO
261	NJ 56	NI	SJTPO	Cumberland	Vineland City	NJ 55	7.65	NJ 47	9.18	1.5		CUFC	Cumberland County
315	NJ 56	NI	SJTPO	Cumberland	Vineland City	Mill Road	8.1	Mill Road	8.3	0.2		CUFC	SJTPO
262	NJ 140	NI	SJTPO	Salem	Carneys Point Twp	US 130	0	US 40	0.99	1.0		CUFC	Speed/Crash; TTI/Crash
264	NJ 49	NI	SJTPO	Salem	Multiple	I-295	0.0	Front Street	8.5	8.5		CRFC/ CUFC	SJ Ec. Devp Study
263	US 40	NI	SJTPO	Salem	Multiple	CR 616	10.0	NJ 77	16.5	6.5		CRFC/ CUFC	NJ FMS
266	I-295	I	SJTPO	Salem	Oldmans Twp	CR 643 (Int 7)	7.0	CR 643 (Int 7)	7.5	0.5	Y	NA	SJ Ec. Devp Study

<u>Map ID</u>	<u>Route</u>	<u>Roadway Type</u>	<u>MPO</u>	<u>County</u>	<u>Municipality</u>	<u>Start</u>	<u>MP Start</u>	<u>End</u>	<u>MP End</u>	<u>Length</u>	<u>NHFN</u>	<u>CUFC-CRFC</u>	<u>How Identified</u>
265	NJ 700 (NJT)	I	SJTPO	Salem	Oldmans Twp	Clara Barton/John Fenwick Service Areas	5.3	Clara Barton/John Fenwick Service Areas	5.7	0.4	Addition	NA	FP 2
267	US 40	NI	SJTPO	Salem	Woodstown Boro	Int. Improvement Project	10.5		10.8	0.3		CUFC	STIP
269	NJ 45	NI	SJTPO	Salem	Woodstown Borough	US 40	9.44	CR 636	9.66	0.2		CUFC	Speed/Crash
268	US 40	NI	SJTPO	Salem	Woodstown Borough	Creek	10.4	Wilson Avenue	10.88	0.5		CUFC	Speed/Crash



# APPENDIX D BTS PORT PROFILES



# Port of Camden-Gloucester

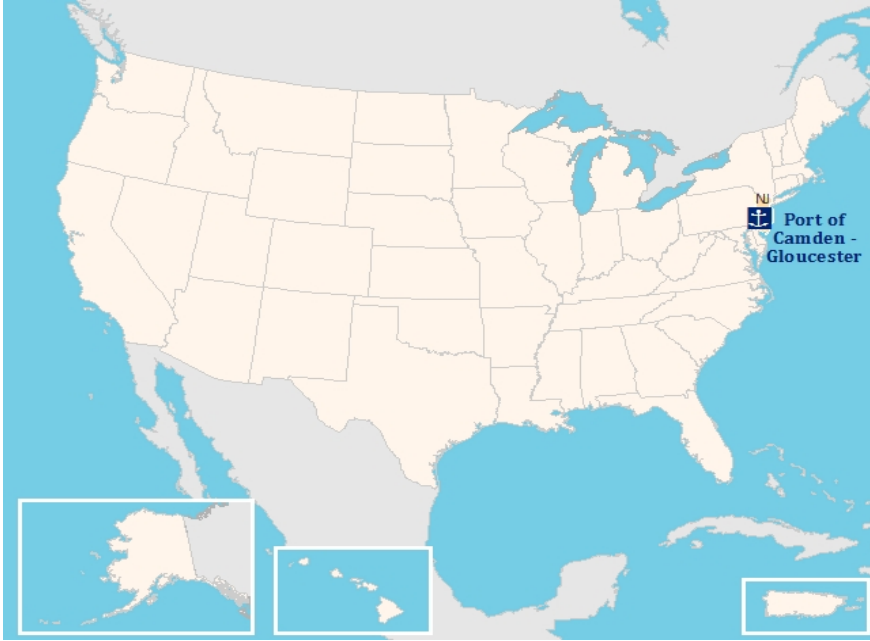
New Jersey

CONTAINED IN:

Container

Region:  
ATLANTIC  
COAST

PORT LIST



Ship anchor icon depicts port location

## Port Overview:

The Port of Camden-Gloucester has terminal facilities in southern New Jersey along the Delaware River that handle containerized, bulk, and break-bulk cargoes.

## CAPACITY

### Channel Depth

Authorized Channel Depth (Feet)	40.0	Maximum Depth of Approach Channel (Feet)	40.0
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### Dedicated Container Terminals

#### Terminals and Connectivity

Number of Dedicated Container Terminals	1
Dedicated Container Terminal Acreage	112
Container Terminals with On-Dock Rail (Y/N)	N

#### Cranes

Total Number	2
• Super Post-Panamax	0
• Post-Panamax	0
• Panamax	2

#### Berths

Total Length (Feet)	2,645
---------------------	-------

(Continued on back)

**SOURCES: Map**—U.S. Department of Transportation, Bureau of Transportation Statistics, National Transportation Atlas Databases 2015, Major\_Ports layer, available at [www.rita.dot.gov/bts/sites/rita.dot.gov/bts/files/publications/national\\_transportation\\_atlas\\_database/2015/index.html](http://www.rita.dot.gov/bts/sites/rita.dot.gov/bts/files/publications/national_transportation_atlas_database/2015/index.html), as of November 2016. **Port Overview, Terminals/Connectivity, Berths/Cranes**—South Jersey Port Corporation website, <http://southjerseyport.com/>, accessed November 2016, including terminal websites accessed through the main port website. **Authorized Channel Depth and Maximum Project Channel Depth**—U.S. Army Corps of Engineers, Deep Draft and Shallow Draft Navigation Project listing, compiled by USACE October 2016.

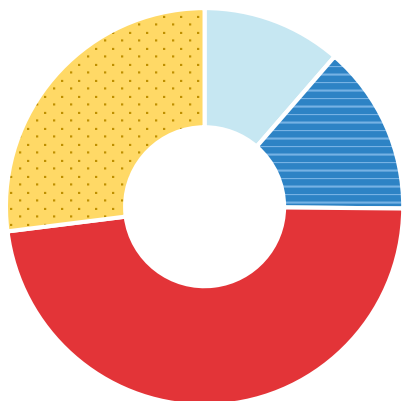


## THROUGHPUT

### Vessel Calls

#### Total Vessel Calls

**1,603** ▼ -7.4%  
2015 2014-2015



#### By Vessel Type

<b>Container</b>	<b>11.4%</b> of total	▲ 27.3%
	2015	2014-2015
Average TEU per Container Vessel <b>791</b>		
<b>Dry Bulk</b>	<b>13.8%</b> of total	▲ 15.1%
	2015	2014-2015
Average Dry Bulk Tonnage per Vessel <b>17,603</b>		
<b>Other Freight</b>	<b>47.9%</b> of total	▼ -13.9%
	2015	2014-2015
<b>Other Support</b>	<b>27.0%</b> of total	▼ -14.4%
	2015	2014-2015

### Cargo

#### Total Tonnage

(Millions of short tons)

Total (domestic & foreign)	<b>6.9</b>	▲ 13.2%
	2015	2014-2015
• Domestic	<b>2.0</b>	▲ 1.7%
	2015	2014-2015
• Foreign	<b>4.9</b>	▲ 18.8%
	2015	2014-2015
○ Imports	<b>4.4</b>	▲ 26.5%
	2015	2014-2015
○ Exports	<b>0.5</b>	▼ -21.6%
	2015	2014-2015

#### Container Volume

(Thousands of TEU)

Total TEU	<b>144</b>	▲ 40.2%
	2015	2014-2015
• Inbound loaded TEU	<b>52</b>	▲ 22.0%
	2015	2014-2015
• Outbound loaded TEU	<b>65</b>	▲ 56.8%
	2015	2014-2015
• Empties (inbound & outbound)	<b>26</b>	▲ 45.2%
	2015	2014-2015

### Top Commodities (short tons)

Commodity Name	Total Tonnage	% of Total
Primary Manufactured Goods	2,492,711	36.0%
Food and Farm Products	1,515,583	21.9%
Petroleum and Petroleum Products	1,394,104	20.1%

**NOTES:** "Other Support" includes tugs and push boats.

Vessel calls numbers might not add to 100% due to rounding.

**SOURCES:** **Vessel Calls, Total Tonnage**—U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, 2015 data, special tabulation, as of November 2016. **Container Volume**—American Association of Port Authorities, Port Industry Statistics, NAFTA Region Container Traffic available at <http://www.aapa-ports.org/unifying/content.aspx?ItemNumber=21048#Statistics>, as of October 2015. **Commodities**—U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, by USACE Commodity Classification List major groupings, 2015 data, special tabulation, as of November 2016.

# Port of New York & New Jersey

New Jersey and New York

CONTAINED IN:

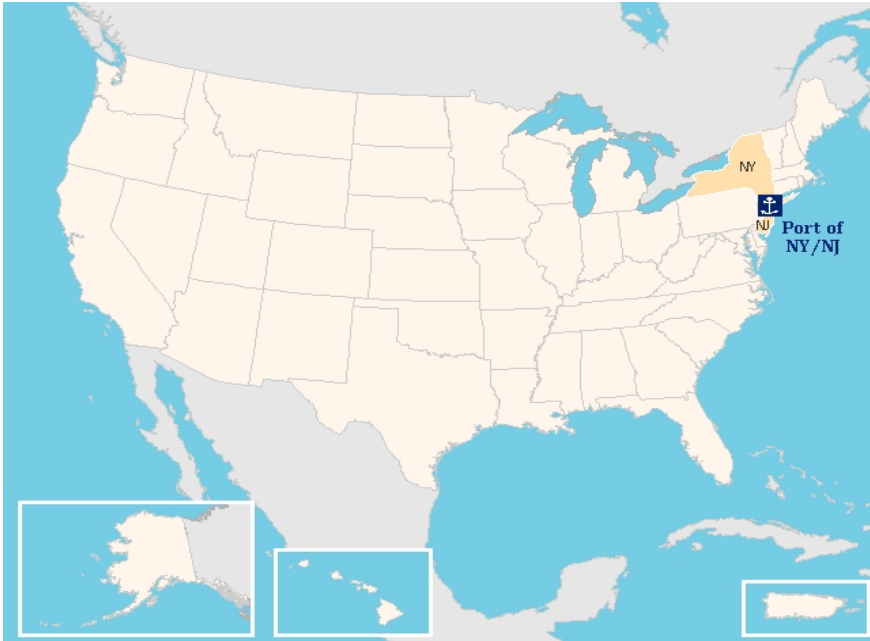
Container

Tonnage

Dry Bulk



PORT LIST



Ship anchor icon depicts port location

## Port Overview:

The Port of New York and New Jersey includes multiple container liquid bulk, dry bulk, break-bulk, roll-on/roll-off, and special cargo terminals, as well as ferry and cruise ship facilities.

## CAPACITY

### Channel Depth

Authorized Channel Depth (Feet)	50.0	Maximum Depth of Approach Channel (Feet)	45.0
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### Dedicated Container Terminals

#### Terminals and Connectivity

Number of Dedicated Container Terminals	6
Dedicated Container Terminal Acreage	1,518
Container Terminals with On-Dock Rail (Y/N)	Y

#### Cranes

Total Number	69
• Super Post-Panamax	36
• Post-Panamax	12
• Panamax	21

#### Berths

Total Length (Feet)	27,987
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(Continued on back)

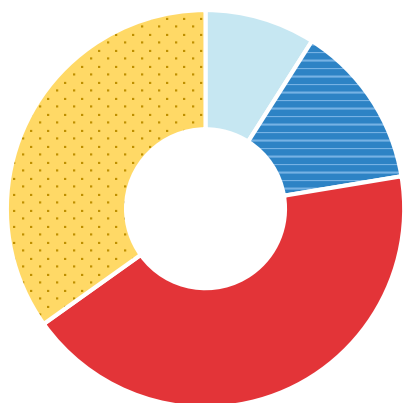
**NOTES:** Capacity information verified by port per American Association of Port Authorities communication.

**SOURCES:** **Map**—U.S. Department of Transportation, Bureau of Transportation Statistics, National Transportation Atlas Databases 2015, Major\_Ports layer, available at [www.rita.dot.gov/bts/sites/rita.dot.gov.bts/files/publications/national\\_transportation\\_atlas\\_database/2015/index.html](http://www.rita.dot.gov/bts/sites/rita.dot.gov.bts/files/publications/national_transportation_atlas_database/2015/index.html), as of November 2016. **Port Overview, Terminals/Connectivity, Berths/Cranes**—Port of New York and New Jersey website, <http://www.panynj.gov/port/>, accessed October 2016, including terminal websites accessed through the main port website. **Authorized Channel Depth and Maximum Project Channel Depth** — U.S. Army Corps of Engineers, Deep Draft and Shallow Draft Navigation Project listing, compiled by USACE October 2016.

## THROUGHPUT

### Vessel Calls

**Total Vessel Calls** **25,218** ▲ 3.6%  
2015 2014-2015



### By Vessel Type

<b>Container</b>	<b>9.0%</b> of total	▼ -3.0%
<small>2015</small>	<small>2014-2015</small>	
Average TEU per Container Vessel		<b>2,808</b>
<b>Dry Bulk</b>	<b>13.4%</b> of total	▼ -1.4%
<small>2015</small>	<small>2014-2015</small>	
Average Dry Bulk Tonnage per Vessel		<b>3,298</b>
<b>Other Freight</b>	<b>42.8%</b> of total	▲ 3.4%
<small>2015</small>	<small>2014-2015</small>	
<b>Other Support</b>	<b>34.8%</b> of total	▲ 7.8%
<small>2015</small>	<small>2014-2015</small>	

### Cargo

#### Total Tonnage

*(Millions of short tons)*

Total (domestic & foreign)	<b>126.7</b> ▲ 0.4%	<small>2015 2014-2015</small>
• Domestic	<b>47.4</b> ▲ 1.8%	<small>2015 2014-2015</small>
• Foreign	<b>79.3</b> ▼ -0.4%	<small>2015 2014-2015</small>
◦ Imports	<b>62.5</b> ▲ 2.8%	<small>2015 2014-2015</small>
◦ Exports	<b>16.8</b> ▼ -10.6%	<small>2015 2014-2015</small>

#### Dry Bulk

*(Millions of short tons)*

Total	<b>11.1</b> ▲ 4.6%	<small>2015 2014-2015</small>
• Domestic	<b>4.6</b> ▲ 2.6%	<small>2015 2014-2015</small>
• Foreign	<b>6.5</b> ▲ 6.2%	<small>2015 2014-2015</small>
◦ Imports	<b>4.7</b> ▲ 10.7%	<small>2015 2014-2015</small>
◦ Exports	<b>1.7</b> ▼ -4.4%	<small>2015 2014-2015</small>

#### Container Volume

*(Thousands of TEU)*

Total TEU	<b>6,372</b> ▲ 10.4%	<small>2015 2014-2015</small>
• Inbound loaded TEU	<b>3,214</b> ▲ 9.2%	<small>2015 2014-2015</small>
• Outbound loaded TEU	<b>1,392</b> ▼ -2.6%	<small>2015 2014-2015</small>
• Empties (inbound & outbound)	<b>1,766</b> ▲ 26.2%	<small>2015 2014-2015</small>

### Top Commodities (short tons)

Commodity Name	Total Tonnage	% of Total
Petroleum and Petroleum Products	66,566,474	52.5%
All Manufactured Equipment, Machinery and Products	14,464,699	11.4%
Crude Materials, Inedible Except Fuels	14,066,373	11.1%

**NOTES:** "Other Support" includes tugs and push boats.

Vessel calls numbers might not add to 100% due to rounding.

**SOURCES:** **Vessel Calls, Total Tonnage**—U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, 2015 data, special tabulation, as of November 2016. **Container Volume**—American Association of Port Authorities, Port Industry Statistics, NAFTA Region Container Traffic available at <http://www.aapa-ports.org/unifying/content.aspx?ItemNumber=21048#Statistics>, as of October 2015. **Commodities**—U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, by USACE Commodity Classification List major groupings, 2015 data, special tabulation, as of November 2016.

# Port of Philadelphia

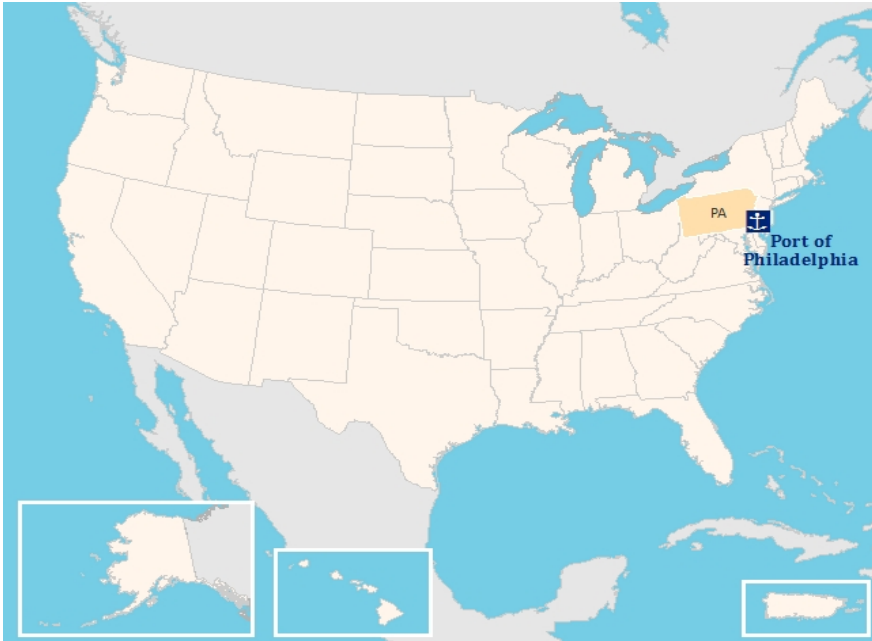
Pennsylvania

CONTAINED IN:

Container



PORT LIST



Ship anchor icon depicts port location

## Port Overview:

The Port of Philadelphia has multiple terminals along the Delaware River that handle containers, break-bulk cargo, liquid bulk cargo, and roll-on/roll-off vehicles. Perishables are a major part of Philadelphia's business.

## CAPACITY

### Channel Depth

Authorized Channel Depth (Feet)	40.0	Maximum Depth of Approach Channel (Feet)	40.0
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### Dedicated Container Terminals

#### Terminals and Connectivity

Number of Dedicated Container Terminals	3
Dedicated Container Terminal Acreage	302
Container Terminals with On-Dock Rail (Y/N)	N

#### Cranes

Total Number	12
• Super Post-Panamax	0
• Post-Panamax	2
• Panamax	10

#### Berths

Total Length (Feet)	4,950
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*(Continued on back)*

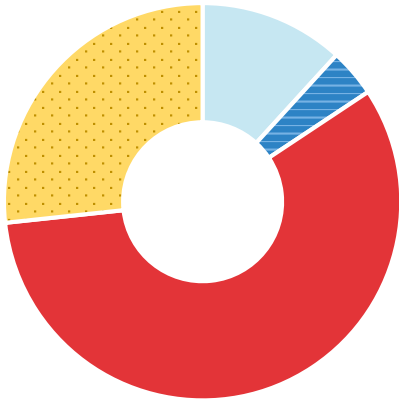
**NOTES:** Capacity information verified by port per American Association of Port Authorities communication.

**SOURCES: Map**—U.S. Department of Transportation, Bureau of Transportation Statistics, National Transportation Atlas Databases 2015, Major\_Ports layer, available at [www.rita.dot.gov/bts/sites/rita.dot.gov.bts/files/publications/national\\_transportation\\_atlas\\_database/2015/index.html](http://www.rita.dot.gov/bts/sites/rita.dot.gov.bts/files/publications/national_transportation_atlas_database/2015/index.html), as of November 2016. **Port Overview, Terminals/Connectivity, Berths/Cranes**—Philadelphia Regional Port Authority website, <http://www.philaport.com/>, accessed October 2016, including terminal websites accessed through the main port website. **Authorized Channel Depth and Maximum Project Channel Depth**—U.S. Army Corps of Engineers, Deep Draft and Shallow Draft Navigation Project listing, compiled by USACE October 2016.

## THROUGHPUT

### Vessel Calls

**Total Vessel Calls** **3,372** ▲ 0.2%  
2015 2014-2015



### By Vessel Type

<b>Container</b>	<b>11.8%</b> of total	▲ 2.2%
	2015	2014-2015
Average TEU per Container Vessel		<b>1,077</b>
<b>Dry Bulk</b>	<b>3.9%</b> of total	▲ 40.6%
	2015	2014-2015
Average Dry Bulk Tonnage per Vessel		<b>U</b>
<b>Other Freight</b>	<b>57.6%</b> of total	▲ 2.6%
	2015	2014-2015
<b>Other Support</b>	<b>26.7%</b> of total	▼ -9.1%
	2015	2014-2015

### Cargo

**Total Tonnage**  
(Millions of short tons)

<b>Total</b> (domestic & foreign)	<b>20.0</b>	▲ 7.7%
	2015	2014-2015
• Domestic	<b>9.9</b>	▼ -11.7%
	2015	2014-2015
• Foreign	<b>10.1</b>	▲ 37.1%
	2015	2014-2015
◦ Imports	<b>9.2</b>	▲ 42.0%
	2015	2014-2015
◦ Exports	<b>0.9</b>	▲ 1.4%
	2015	2014-2015

**Container Volume**  
(Thousands of TEU)

<b>Total TEU</b>	<b>428</b>	▼ -4.8%
	2015	2014-2015
• Inbound loaded TEU	<b>210</b>	▼ -4.6%
	2015	2014-2015
• Outbound loaded TEU	<b>218</b>	▼ -5.0%
	2015	2014-2015
• Empties (inbound & outbound)	<b>0</b>	N/A
	2015	2014-2015

### Top Commodities (short tons)

Commodity Name	Total Tonnage	% of Total
Petroleum and Petroleum Products	11,965,408	59.9%
Chemicals and Related Products	2,576,870	12.9%
Food and Farm Products	2,542,995	12.7%

**NOTES:** "N/A" designates a metric that does not apply for this port. "U" designates data that was unavailable. "Other Support" includes tugs and push boats.

Vessel calls numbers might not add to 100% due to rounding.

**SOURCES:** **Vessel Calls, Total Tonnage**—U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, 2015 data, special tabulation, as of November 2016. **Container Volume**—American Association of Port Authorities, Port Industry Statistics, NAFTA Region Container Traffic available at <http://www.aapa-ports.org/unifying/content.aspx?ItemNumber=21048#Statistics>, as of October 2015. **Commodities**—U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, by USACE Commodity Classification List major groupings, 2015 data, special tabulation, as of November 2016.



APPENDIX E  
STIP PROJECTS IDENTIFIED AS  
PROBLEM AREAS/BOTTLENECKS



**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 1, Alexander Road to Mapleton Road**

*DBNUM: 17419 / UPC: 174190*

Improvements will help relieve congestion at Route 1 from the “Dinky” railroad bridge to approximately Plainsboro Road by increasing the number of travel lanes from 3 to 4 lanes per direction on Route 1; provide shoulders, deceleration lanes, acceleration lanes, and turn lanes along the corridor for turning vehicles; widen Washington Road at Route 1 to relocate the merge of the 2-lane circle into a single Washington Road lane out of the intersection; increase the Route 1 southbound to Fisher Place jughandle turn; modify existing 3-phase signal at Route 1 and Harrison St. intersection to a 2-phase signal; and provide a Route 1 cross section with 4 lanes per direction at the Millstone River Bridge. This project in West Windsor (Mercer County) and Plainsboro (Middlesex County) is a derivative of the former Rt. 1/CR 571 Penns Neck project (DB #031). The magnitude and scope of work for the Rt. 1 Alexander Rd to Mapleton Rd project is greatly reduced from the Penns Neck project (\$150 M vs. \$35 M).

**COUNTY:** Mercer, Middlesex

**LEGISLATIVE DISTRICT:** 14, 15

**MUNICIPALITY:** West Windsor Twp, Plainsboro

**SPONSOR:** NJDOT

**MILEPOST(S):** 10.8 - 12.07

**STRUCTURE NO.:** 1103155

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):**

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Major Widenings)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
DVRPC	PE	STATE	\$0.300										\$0.300
NJTPA	PE	STATE	\$1.200										\$1.200
DVRPC	DES	STATE			\$0.500								\$0.500
NJTPA	DES	STATE			\$2.000								\$2.000
NJTPA	ROW	CMAQ				\$3.000							\$3.000
DVRPC	CON	CMAQ						\$3.900					\$3.900
NJTPA	CON	CMAQ						\$24.000					\$24.000



**FY 2016-2025 STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 1, CR 533 (Quakerbridge Road) to Ridge Road**

**DBNUM: 12406 / UPC: 124060**

Initiated from the Pavement Management System, this project will resurface within the project limits.  
Total construction funding needed is expected to be \$13,363,900.

**COUNTY:** Mercer, Middlesex

**LEGISLATIVE DISTRICT:** 14, 15, 16

**MUNICIPALITY:** Plainsboro Twp, West Windsor, South Brunswick Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** NB: 7.90-9.22 & 12.00-14.50; SB 8.50-9.22 & 9.60-10.80 & 12.10-14.00 **STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S10 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Resurfacing)

MPO	Phase	Fund	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total
DVRPC	CON	NHPP		\$5.667									\$5.667
NJTPA	CON	NHPP		\$7.696									\$7.696

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

<b>Route 1, Southbound, Nassau Park Boulevard to Quaker Bridge Mall Overpass</b>	<b>DBNUM: 01330A / UPC: 013301</b>
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This project resulted from a Congestion Management Study. Operational and safety improvements are proposed in the southbound direction. Critical concerns include: the safety/efficiency in the separation of the through and local traffic; safety of weaving and merge operations on the Collector/Distributor (C/D) roadway; density of roadside driveways and associated vehicle conflicts; and the inadequate or lack of acceleration/deceleration lanes at Quaker Bridge Mall ramps. Widening of Rt. 1 Southbound to 3 through lanes with a 2 lane C/D road is proposed. Driveway access revisions are also included to minimize conflicts.

**COUNTY:** Mercer

**LEGISLATIVE DISTRICT:** 15

**MUNICIPALITY:** Lawrence Twp, West Windsor Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 7.61 - 8.69; 8.94; 9.25

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** 2020M (Non-Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Highway Operational Improvements)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
DVRPC	CON	NHPP	\$16.950										\$16.950

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 3 & Route 495 Interchange**

*DBNUM: 12386 / UPC: 123860*

Initiated from the Bridge Management System, this project will replace; the Route 495 Eastbound and Ramp B over Route 3 structure; and the bridge deck for the Route 3 Eastbound and South Service Road structure over Route 495 Ramp J. The project also includes safety and operational improvements within the Routes 3 and 495 interchange.

**COUNTY:** Hudson

**LEGISLATIVE DISTRICT:** 32

**MUNICIPALITY:** North Bergen Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 10.33

**STRUCTURE NO.:** 0908152, 0916150

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** O10A (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Bridge Rehab and Replacement)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	PE	STATE		\$3.250									\$3.250
NJTPA	DES	NHPP					\$4.350						\$4.350
NJTPA	ROW	NHPP							\$0.500				\$0.500
NJTPA	CON	NHPP									\$26.000	\$27.000	\$53.000

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 3, Route 46, Valley Road and Notch/Rifle Camp Road Interchange, Contract B**

*DBNUM: 059B / UPC: 123020*

From Notch/Rifle Camp Road to just east of the Valley Road Intersection, Route 46 will be widened to provide standard shoulders and acceleration/deceleration/auxiliary lanes, and will be realigned as needed to improve sight distance. At the intersection of Route 46 and Route 3, a three-lane section will replace the existing two-lane connections. Route 46 will be realigned to converge with Route 3 from the right side (not the left as presently exists). Complete interchange upgrades will be made. From Route 46 to Grove Street, Route 3 will be widened to provide auxiliary lanes and standard shoulders. The project will require the removal of three bridge structures and replacing them with four new bridge structures. Each of these structures will be designed to provide a minimum vertical underclearance of 15 feet 6 inches. Culverts will be impacted as well. Bridge Structures to be replaced: 1606172, 1607151, 160150 (to be replaced with two structures); Culverts to be replaced: 1606173; Culverts to be extended: 1606168.

**COUNTY:** Passaic

**LEGISLATIVE DISTRICT:** 40, 34

**MUNICIPALITY:** Little Falls Twp, Clifton City

**SPONSOR:** NJDOT

**MILEPOST(S):** Rt. 3 0-0.50 Rt. 46 59.2-60.6

**STRUCTURE NO.:** Various

**FINANCIAL PLAN REQUIREMENT:** This project is part of a project with a total cost between \$100 and \$500 million programmed to receive federal financial assistance and an annual financial management plan is required to be prepared.

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** 2020M (Non-Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Highway Operational Improvements)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	CON	NHPP		\$34.750	\$35.950	\$35.450	\$29.500						\$135.650

**FY 2016-2025 STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 4, Route 20 to Route 1&9**

**DBNUM: 12431 / UPC: 124310**

Initiated from the Pavement Management System, this project will resurface within the project limits.  
This project is multi-year funded. Total construction funding needed is expected to be \$30,000,000.

**COUNTY:** Bergen, Passaic

**LEGISLATIVE DISTRICT:** 38, 37

**MUNICIPALITY:** Fair Lawn Boro, Paramus Boro, River Edge Boro, Patterson City

**SPONSOR:** NJDOT

**MILEPOST(S):** 0.0 - 10.8

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S10 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Resurfacing)

MPO	Phase	Fund	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total
NJTPA	CON	NHPP				\$10.000	\$20.000						\$30.000

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 4, Tunbridge Road to Route 9W**

**DBNUM: 12431B / UPC: 168110**

First identified by the Pavement Management System (PMS), this project will resurface the roadway within the project limits. This element of the project scope will include ADA upgrades and: curb repairs; guiderail replacement; and resets for utility covers, drainage grates, fire hydrants, manhole, and gas/water covers. Subsequently to the PMS review, the Safety Management System identified the intersection of Route 9 and Kelby Street as needing operational and safety improvements. This element of the project scope will include: new traffic signals with video detection; re-striping of thru and turn lanes; pedestrian push buttons and pedestrian signal heads; high visibility cross walks; ADA compliant curb ramp upgrades and sidewalk upgrades.

**COUNTY:** Bergen

**LEGISLATIVE DISTRICT:** 38, 37

**MUNICIPALITY:** Fair Lawn Boro, Hackensack City, Teaneck Twp, Fort Lee Boro

**SPONSOR:** NJDOT

**MILEPOST(S):** 1.94-10.59

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):**

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Resurfacing)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	CON	NHPP		\$12.000	\$12.080								\$24.080

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 4, Bridge over Palisade Avenue, Windsor Road and CSX Railroad**

*DBNUM: 065C / UPC: 078044*

This is a breakout of the Route 4 Corridor Multi-Bridges and Roadway Improvement project. The project will replace the existing Route 4 Bridge over Palisade Avenue, Windsor Road, and CSX Railroad. Approach roadway work and improvement of Belle Avenue intersection will be part of the project as well.

**COUNTY:** Bergen

**LEGISLATIVE DISTRICT:** 37

**MUNICIPALITY:** Teaneck Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 6.80 - 7.20

**STRUCTURE NO.:** 0206169

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S19 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Bridge Rehab and Replacement)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	DES	STATE	\$4.000										\$4.000
NJTPA	ROW	STATE			\$2.000								\$2.000
NJTPA	UTI	NHPP					\$6.000						\$6.000
NJTPA	CON	NHPP						\$47.500					\$47.500

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 7, Kearny, Drainage Improvements**

*DBNUM: 93186 / UPC: 950652*

This section of Route 7 is generally uncurbed and frequently flooded due to low elevation and lack of sufficient highway drainage system. Roadway runoff is collected through inlets or sheet flow, discharging directly into the marshlands. During moderate and heavy storms, in addition to high tide, the runoff overflows the banks onto the roadway and adjacent properties. This causes the highway to be closed and traffic is detoured. This project will provide highway drainage system improvements including; pumping stations, raising road profile and sheet piling to prevent tidal water to flood the roadway.

**COUNTY:** Hudson

**LEGISLATIVE DISTRICT:** 32

**MUNICIPALITY:** Kearny Town

**SPONSOR:** NJDOT

**MILEPOST(S):** 1.7 - 3.6

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S4 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Drainage)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	DES	STATE		\$6.000									\$6.000
NJTPA	ROW	STATE		\$3.400									\$3.400
NJTPA	CON	NHPP				\$18.000	\$18.000	\$18.000	\$18.000				\$72.000



**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 9, Indian Head Road to Central Ave/Hurley Ave, Pavement**

*DBNUM: 11418 / UPC: 114180*

Initiated from the Pavement Management System, this project will resurface within the project limits. Project will include safety improvements and Federal ADA compliance.

**COUNTY:** Ocean

**LEGISLATIVE DISTRICT:** 10, 30

**MUNICIPALITY:** Toms River Twp, Lakewood Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 94.5 - 101.7

**STRUCTURE NO.:** 1504150, 1504151, 1504153

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S10 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Rehab and Recon)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	DES	STATE	\$2.000										\$2.000
NJTPA	ROW	STATE		\$0.750									\$0.750
NJTPA	CON	NHPP			\$11.700	\$39.000							\$50.700

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 9/35, Main Street Interchange**

*DBNUM: 079A / UPC: 088032*

Rt. 9/35 over Main Street Interchange is a breakout from the Rt 9/35 over Main St. Bridge. The lack of an acceleration lane from Rt. 9 Northbound to Rt. 9/35 Northbound ramp has created a safety condition for vehicles attempting to merge. Furthermore, the tight radius and heavy truck traffic from this ramp have contributed to the congestion and the queue on Rt. 9 Northbound which extends for about a mile causing more safety concerns. Rt. 9/35 Southbound to Rt. 9 Southbound ramp is also a safety problem at this interchange, as this ramp is also substandard and is contributing to the extensive queue which extends from Rt. 9/35 to the Edison Bridge. Both ramps will be investigated separately and may graduate as two individual projects.

**COUNTY:** Middlesex

**LEGISLATIVE DISTRICT:** 19

**MUNICIPALITY:** Sayreville Boro, South Amboy City

**SPONSOR:** NJDOT

**MILEPOST(S):** 129.82

**STRUCTURE NO.:** 1208150

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** O10A (Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Highway Operational Improvements)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	PE	STATE	\$0.500										\$0.500
NJTPA	DES	STATE		\$1.200									\$1.200
NJTPA	ROW	NHPP					\$2.000						\$2.000
NJTPA	CON	NHPP							\$33.800				\$33.800

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 17, Bridges over NYS&W RR & RR Spur & Central Avenue (CR 44)**

*DBNUM: 14319 / UPC: 143190*

Deck Replacement Program FY 14

**COUNTY:** Bergen

**LEGISLATIVE DISTRICT:** 38

**MUNICIPALITY:** Rochelle Park Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 10.80 - 10.91

**STRUCTURE NO.:** 0214159, 0214157, 0214158

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):**

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Deck Rehab and Replacement)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	PE	STATE		\$2.000									\$2.000
NJTPA	DES	NHPP					\$4.500						\$4.500
NJTPA	ROW	NHPP							\$2.000				\$2.000
NJTPA	CON	NHPP										\$24.850	\$24.850

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 17, Sprout Brook, Culvert Replacement**

*DBNUM: 11357 / UPC: 113570*

Initiated by the Bridge Management System, this project will replace the culvert within the project limits.

**COUNTY:** Bergen

**LEGISLATIVE DISTRICT:** 38

**MUNICIPALITY:** Paramus Boro

**SPONSOR:** NJDOT

**MILEPOST(S):** 15.0 - 15.1

**STRUCTURE NO.:** 0216158

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S4, S19 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Culverts)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	PE	STATE	\$0.300										\$0.300
NJTPA	DES	STATE		\$0.600									\$0.600
NJTPA	ROW	NHPP					\$0.300						\$0.300
NJTPA	CON	NHPP							\$4.075				\$4.075

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 21, Newark Needs Analysis, Murray Street to Edison Place**

*DBNUM: 99381 / UPC: 993810*

The Feasibility Assessment will provide recommendations to relieve traffic congestion via potential widening as well as providing for safety and pedestrian improvements.

**COUNTY:** Essex

**LEGISLATIVE DISTRICT:** 29

**MUNICIPALITY:** Newark City

**SPONSOR:** NJDOT

**MILEPOST(S):** 1.20 - 2.25

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** O10A (Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Highway Operational Improvements)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	PE	STATE	\$1.300										\$1.300
NJTPA	DES	STATE			\$1.800								\$1.800
NJTPA	ROW	NHPP					\$1.000						\$1.000
NJTPA	CON	NHPP							\$31.800				\$31.800

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 22, Bloy Street to Liberty Avenue**

*DBNUM: 658C / UPC: 058004*

Initiated by the Bridge Management System, this project will replace the structurally deficient and functionally obsolete bridge, built in 1940.

**COUNTY:** Union

**LEGISLATIVE DISTRICT:** 20

**MUNICIPALITY:** Hillside Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 56.90 - 57.30

**STRUCTURE NO.:** 2004152

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S19 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Bridge Rehab and Replacement)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	CON	NHPP	\$8.650										\$8.650

**FY 2016-2025 STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 22, Commons Way to Route 287**

**DBNUM: 14356 / UPC: 143560**

Initiated from the Pavement Management System, this project will provide Concrete Pavement Repair within the project limits.  
Total construction funding needed is expected to be \$4,700,000.

**COUNTY:** Somerset

**LEGISLATIVE DISTRICT:** 23

**MUNICIPALITY:** Bridgewater Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 34.3 - 36.87

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S10 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Resurfacing)

MPO	Phase	Fund	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total
NJTPA	PE	NHPP		\$0.250									\$0.250
NJTPA	DES	NHPP				\$0.400							\$0.400
NJTPA	CON	NHPP						\$4.700					\$4.700

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 27 ADA Ramps, Evergreen St to Elizabeth River**

*DBNUM: 10316A / UPC: 158110*

This project will fund the construction of ADA compliant ramps at 125 intersections, 34 of which are signalized, and approximately 40 driveways along Rt. 27. This project will also address the need for ROW acquisition, utility relocations, and traffic signal relocations in order to provide reasonable ADA compliant ramps within the project limits.

**COUNTY:** Middlesex, Union

**LEGISLATIVE DISTRICT:** 18, 19, 22

**MUNICIPALITY:** Edison Twp, Woodbridge Twp, Rahway City

**SPONSOR:** NJDOT

**MILEPOST(S):** 23.8-33.4

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** AQ2 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Multimodal Programs: Bicycle/Pedestrian)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	CON	NHPP		\$10.600									\$10.600



**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 27, Dehart Place to Route 21**

*DBNUM: 15371 / UPC: 153710*

Initiated by the Pavement Management System, the project will mill 3" depth and resurface with 3" thick asphalt on the North and South Bound Route 27 mainline and shoulder. The Route 27 ramps, both North and South Bound will also mill 3" and resurface with asphalt 3". A construction of ADA compliant curb ramps at each corner of an intersection where a sidewalk exists will be built at all 33 signalized intersections and 34 un-signalized intersections. Damaged sidewalks will be repaired and drainage grate inlets will be replaced with bicycle safe grates. Right-of-Way is required for the construction of ADA compliant curb ramps.

**COUNTY:** Union, Essex

**LEGISLATIVE DISTRICT:** 20, 28, 29

**MUNICIPALITY:** Elizabeth City, Newark City

**SPONSOR:** NJDOT

**MILEPOST(S):** 33.4-38.53

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):**

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Resurfacing)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	CON	NHPP			\$13.264								\$13.264

**FY 2016-2025 STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 27, Bridge Street (CR 669) to Frederic Street**

**DBNUM: 12434 / UPC: 124340**

Initiated from the Pavement Management System, this project will resurface within the project limits.  
Total construction funding needed is expected to be \$3,300,000.

**COUNTY:** Middlesex

**LEGISLATIVE DISTRICT:** 18

**MUNICIPALITY:** Metuchen Boro, Edison Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 20.9-23.8

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S10 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Resurfacing)

MPO	Phase	Fund	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total
NJTPA	CON	STP		\$3.300									\$3.300

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 31, Bull Run Road to Branch of Stoney Brook**

*DBNUM: 12401 / UPC: 124010*

Initiated from the Pavement Management System, this project will resurface within the project limits.

**COUNTY:** Mercer, Hunterdon

**LEGISLATIVE DISTRICT:** 15

**MUNICIPALITY:** Hopewell Twp, Pennington Boro, East Amwell Twp, West Amwell Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 4.7 - 14.3

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S10 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Resurfacing)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
DVRPC	CON	NHPP	\$7.018										\$7.018
NJTPA	CON	NHPP	\$1.882										\$1.882

**FY 2016-2025 STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 31, Bridge over CSX Railroad**

*DBNUM: 08355 / UPC: 083550*

The project includes replacement of the bridge over CSX Railroad, a new pavement box will be constructed several hundred feet either side of the bridge and replacement of the culvert at Seminary Creek.

This project is multi-year funded. Total construction funding needed is expected to be \$12,500,000.

**COUNTY:** Mercer

**LEGISLATIVE DISTRICT:** 15

**MUNICIPALITY:** Hopewell Twp, Pennington Boro

**SPONSOR:** NJDOT

**MILEPOST(S):** 6.84 - 7.33

**STRUCTURE NO.:** 1119150, 1119151

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S19 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Bridge Rehab and Replacement)

MPO	Phase	Fund	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total
DVRPC	CON	NHPP		\$7.000	\$5.500								\$12.500

**FY 2016-2025 STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 35, North of Lincoln Dr to Navesink River Bridge**

*DBNUM: 12308 / UPC: 123080*

Initiated from the Pavement Management System, this project will resurface both directions within the project limits.  
Total construction funding needed is expected to be \$4,100,000.

**COUNTY:** Monmouth

**LEGISLATIVE DISTRICT:** 11

**MUNICIPALITY:** Ocean Twp, Shrewsbury Boro, Eatontown Boro, Red Bank Boro

**SPONSOR:** NJDOT

**MILEPOST(S):** 24.9-34.3

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S10 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Resurfacing)

MPO	Phase	Fund	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total
NJTPA	CON	NHPP	\$4.100										\$4.100

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 40, Woodstown Intersection Improvements**

*DBNUM: 04308 / UPC: 043080*

This project provides Route 40/Route 45 intersection improvements, including; resurfacing of Route 45, reconstruction of the existing pavement along Route 40, upgrading of all roadway appurtenances, and sidewalk improvements to comply with ADA standards.

**COUNTY:** Salem

**LEGISLATIVE DISTRICT:** 3

**MUNICIPALITY:** Woodstown Boro

**SPONSOR:** NJDOT

**MILEPOST(S):** 10.46 - 10.87

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** NR1 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Highway Operational Improvements)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
SJTPO	CON	NHPP	\$2.822										\$2.822

**FY 2016-2025 STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 45, Main Street (CR 672) to Chestnut Street**

*DBNUM: 14363 / UPC: 143630*

Initiated from the Pavement Management System, this project will resurface within the project limits.  
Total construction funding needed is expected to be \$10,900,000.

**COUNTY:** Gloucester, Salem

**LEGISLATIVE DISTRICT:** 3, 5

**MUNICIPALITY:** Woodstown Boro, Pilesgrove Twp, South Harrison Twp,  
Harrison Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 9.52 - 22.50

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S10 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Resurfacing)

MPO	Phase	Fund	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total
DVRPC	CON	STATE	\$8.355										\$8.355
SJTPO	CON	STATE	\$2.545										\$2.545

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 45, Bridge over Woodbury Creek**

*DBNUM: 14348 / UPC: 143480*

Initiated by the Bridge Management System, the project will replace the structurally deficient and functionally obsolete bridge with a precast concrete Northeast Extreme Tee (NEXT) Beam structure.

**COUNTY:** Gloucester

**LEGISLATIVE DISTRICT:** 5

**MUNICIPALITY:** Woodbury City

**SPONSOR:** NJDOT

**MILEPOST(S):** 26.21

**STRUCTURE NO.:** 0810150

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S19 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Bridge Rehab and Replacement)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
DVRPC	PE	STATE	\$0.400										\$0.400
DVRPC	DES	STATE		\$1.000									\$1.000
DVRPC	ROW	STATE			\$0.500								\$0.500
DVRPC	CON	STATE				\$9.000							\$9.000



**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 46, Bergen Boulevard to Main Street**

*DBNUM: 12428 / UPC: 124280*

Initiated from the Pavement Management System, this project will resurface within the project limits.

**COUNTY:** Bergen

**LEGISLATIVE DISTRICT:** 38, 36

**MUNICIPALITY:** Lodi Boro, Hasbrouck Heights Boro, Teterboro Boro, South Hackensack Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 66.95 - 69.18

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S10 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Resurfacing)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	CON	NHPP						\$6.673					\$6.673

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 46, Route 23 (Pompton Avenue) to Route 20, ITS**

*DBNUM: 06366C / UPC: 148060*

To better manage and improve traffic conditions along the corridor, the following concepts will be evaluated in the CD phase: deployment of ITS devices that will complement present ITS equipment, minor improvements to address roadway constraints without right of way acquisition, and updates/upgrades to existing traffic signal equipment.

**COUNTY:** Passaic

**LEGISLATIVE DISTRICT:** 40, 36, 34

**MUNICIPALITY:** Wayne Twp, Totowa Boro, Little Falls Twp, Clifton City

**SPONSOR:** NJDOT

**MILEPOST(S):** 55.98 - 63.85

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** NR2, O7 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Intelligent Transportation Systems)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	CON	NHPP						\$5.900					\$5.900

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 47, Grove St. to Route 130, Pavement**

*DBNUM: 12305 / UPC: 123050*

Initiated from the Pavement Management System, this project will resurface, rehabilitate and reconstruct within the project limits. The project will update the ADA requirements, and correct a culvert which causes a flooding condition.

**COUNTY:** Gloucester

**LEGISLATIVE DISTRICT:** 3, 4, 5

**MUNICIPALITY:** Glassboro Boro, Westville Boro, Deptford Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 62.3-74.9

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S10 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Rehab and Recon)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
DVRPC	DES	STATE	\$2.500										\$2.500
DVRPC	ROW	STATE		\$2.500									\$2.500
DVRPC	CON	STP				\$10.000	\$14.941						\$24.941

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 47, Bridge over Big Timber Creek**

*DBNUM: 11371 / UPC: 113710*

This project will address drainage issues (identified by the Drainage Management System) within the project limits, and will provide for the replacements of the Route 47 and Route 130 bridges over Big Timber Creek, built in 1934 and 1928, respectively.

**COUNTY:** Gloucester, Camden

**LEGISLATIVE DISTRICT:** 5

**MUNICIPALITY:** Westville Boro, Brooklawn Boro

**SPONSOR:** NJDOT

**MILEPOST(S):** 74.8 - 75.2

**STRUCTURE NO.:** 1203153

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S19 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Bridge Rehab and Replacement)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
DVRPC	DES	STATE		\$3.000									\$3.000
DVRPC	ROW	STATE		\$3.300									\$3.300
DVRPC	CON	STP				\$10.000	\$17.900						\$27.900

**FY 2016-2025 STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 55, SB Schooner Landing Road to Sherman Avenue**

**DBNUM: 11343A / UPC: 138010**

Initiated from the Pavement Management System, this project will resurface both directions within the project limits.  
Total construction funding needed is expected to be \$8,204,000.

**COUNTY:** Cumberland

**LEGISLATIVE DISTRICT:** 1

**MUNICIPALITY:** Millville City, Vineland City

**SPONSOR:** NJDOT

**MILEPOST(S):** 21.8 - 26.5

**STRUCTURE NO.:** 0609152, 0609154, 0609156, 0609058

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S10 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Rehab and Recon)

MPO	Phase	Fund	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total
SJTPO	CON	NHPP	\$8.204										\$8.204

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 76, Bridges over Route 130**

*DBNUM: 11326A / UPC: 148090*

Initiated by the Bridge Management System, this project will replace the bridge deck on the Route 76 over Route 130 Northbound bridge and replace the superstructures of the Ramp to Route 76 Northbound over Route 130 Southbound and the Route 76 over 130 Southbound bridge.

**COUNTY:** Camden

**LEGISLATIVE DISTRICT:** 5

**MUNICIPALITY:** Gloucester City

**SPONSOR:** NJDOT

**MILEPOST(S):** 0.7-1.2

**STRUCTURE NO.:** 0417155, 0417156, 0417157

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S19 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Bridge Rehab and Replacement)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
DVRPC	DES	STATE	\$2.500										\$2.500
DVRPC	CON	NHPP			\$14.500	\$15.335							\$29.835

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 23, Route 80 and Route 46 Interchange**

*DBNUM: 9233B6 / UPC: 009234*

The purpose of this project is to provide greater mobility, reduce congestion and enhance safety through simplicity of movement through the interchange. The improvements include a new ramp (NW-E) providing a direct connection from Rt 23 SB to I-80 WB. Three new bridges are anticipated to facilitate the construction of the new ramp. A connection allowing travel from I-80 EB to Rt 23 NB and SB and Rt 46 WB via a new ramp connection. Adjustments to the lane configuration on the I-80 between Rt 23 and the bridge over the Passaic River to improve lane continuity will be made and modifications to the existing exit and entry ramps on I-80 to improve the merge and diverge with the mainline roadway. A number of retaining walls are anticipated in conjunction with the bridge and ramp construction.

**COUNTY:** Passaic, Essex

**LEGISLATIVE DISTRICT:** 40, 26

**MUNICIPALITY:** Wayne Twp, Fairfield Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 23: 5.1-5.7; 80: 52.8-53.75

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** O10A (Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Highway Operational Improvements)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	DES	STATE		\$2.500									\$2.500
NJTPA	ROW	STATE				\$0.500							\$0.500
NJTPA	CON	NHPP						\$29.000					\$29.000

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 80 EB, Fairfield Road (CR 679) to Route 19**

***DBNUM: 11341 / UPC: 113410***

Initiated from the Pavement Management System, this project will resurface, and reconstruct the shoulders, within the project limits. Minor deck repair is included, as are drainage improvements identified through the Drainage Management System.

**COUNTY:** Passaic

**LEGISLATIVE DISTRICT:** 40, 35

**MUNICIPALITY:** Wayne Twp, Paterson City, Woodland Park Boro

**SPONSOR:** NJDOT

**MILEPOST(S):** 53.0 - 58.2

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S10 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Rehab and Recon)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	CON	NHPP	\$7.400										\$7.400



**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 80 WB, McBride Avenue (CR 639) to Polify Road (CR 55)**

**DBNUM: 11415 / UPC: 114150**

This project will reconstruct 9 miles of I-80 Westbound pavement & structures from milepost 56.4 to 65.4 in Passaic County (Woodland Park Borough and the City of Paterson) and in Bergen County (Elmwood Park Borough, Saddle Brook Township, Lodi Borough and the City of Hackensack). In addition there will be a widening of Rt 80 in the WB direction from MP 58.9 to 60.5.

The project limits are from approximately 0.2 mile east of the Squirrelwood Road (CR 636) Interchange in Woodland Park Borough, Passaic County to approximately 0.1 mile west of the S. Summit Rd (CR 57) Interchange in the City of Hackensack, Bergen County.

Structures located within the project limits are: 1610-156, 1610-158, 1610-171, 1610-159, 1610-160, 1610-165, 1610-166, 1610-167, 1610-170, 1610-152; 0225-150, 0225-151, 0225-154, 0225-155, 0225-156, 0225-157, 0225-158, 0225-159; 1609-161, 1609-160; 0225-162, 0225-164, 0225-166, 0225-167, 0225-168; 0226-150, 0226-151

**COUNTY:** Passaic, Bergen

**LEGISLATIVE DISTRICT:** 35, 37, 38, 40

**MUNICIPALITY:** Various

**SPONSOR:** NJDOT

**MILEPOST(S):** 56.43 - 65.4

**STRUCTURE NO.:** Various

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):**

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Rehab and Recon)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	PE	NHPP	\$12.800										\$12.800
NJTPA	DES	NHPP			\$9.000	\$10.000							\$19.000
NJTPA	ROW	STATE				\$3.000							\$3.000
NJTPA	CON	NHPP					\$40.000	\$40.000	\$105.000				\$185.000
NJTPA	CON	STATE					\$60.000	\$60.000					\$120.000

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 80, Bridge over Passaic River, Riverview Drive & Mc Bride Avenue**

*DBNUM: 17316 / UPC: 173160*

Bridge Deck/Superstructure Replacement

**COUNTY:** Passaic

**LEGISLATIVE DISTRICT:** 40

**MUNICIPALITY:** Totowa Boro, Woodland Park Boro

**SPONSOR:** NJDOT

**MILEPOST(S):** 56.29-56.43

**STRUCTURE NO.:** 1610153

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):**

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Bridge Rehab and Replacement)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	DES	STATE		\$4.400									\$4.400
NJTPA	CON	NHPP					\$28.000	\$28.250					\$56.250

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 80, Route 15 Interchange**

*DBNUM: 93139 / UPC: 950442*

This project will: provide the missing Rt. 15 Northbound/Southbound to I-80 Eastbound/Westbound ramp to reduce congestion within Wharton and to provide direct access to the interstate; improve the acceleration lane from Rt.15 to I-80 Westbound to improve its safety and operation; reconstruct the intersection of Rt. 15 & Dewey Ave. to improve its level of service; improve the weaving length between North Main St. & Ramp "K"; improve the geometry of Ramp "I" to enhance truck movements; and improve the lane width and add shoulders at the merge of Rt. 15 Northbound and I-80 Westbound to improve its operation and safety.

**COUNTY:** Morris

**LEGISLATIVE DISTRICT:** 25, 26

**MUNICIPALITY:** Wharton Boro, Rockaway Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** Rt 80: 33.30 - 34.02, Rt 15: 1.61 - 2.80

**STRUCTURE NO.:** 1412178, 1412179, 1413150, 1413151

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** O10A (Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Highway Operational Improvements)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	DES	STATE			\$6.000								\$6.000
NJTPA	ROW	STATE				\$1.000							\$1.000
NJTPA	CON	NHPP						\$18.750	\$18.750	\$19.000			\$56.500

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 23, Route 80 and Route 46 Interchange**

*DBNUM: 9233B6 / UPC: 009234*

The purpose of this project is to provide greater mobility, reduce congestion and enhance safety through simplicity of movement through the interchange. The improvements include a new ramp (NW-E) providing a direct connection from Rt 23 SB to I-80 WB. Three new bridges are anticipated to facilitate the construction of the new ramp. A connection allowing travel from I-80 EB to Rt 23 NB and SB and Rt 46 WB via a new ramp connection. Adjustments to the lane configuration on the I-80 between Rt 23 and the bridge over the Passaic River to improve lane continuity will be made and modifications to the existing exit and entry ramps on I-80 to improve the merge and diverge with the mainline roadway. A number of retaining walls are anticipated in conjunction with the bridge and ramp construction.

**COUNTY:** Passaic, Essex

**LEGISLATIVE DISTRICT:** 40, 26

**MUNICIPALITY:** Wayne Twp, Fairfield Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 23: 5.1-5.7; 80: 52.8-53.75

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** O10A (Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Highway Operational Improvements)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	DES	STATE		\$2.500									\$2.500
NJTPA	ROW	STATE				\$0.500							\$0.500
NJTPA	CON	NHPP						\$29.000					\$29.000

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 80 WB, McBride Avenue (CR 639) to Polify Road (CR 55)**

**DBNUM: 11415 / UPC: 114150**

This project will reconstruct 9 miles of I-80 Westbound pavement & structures from milepost 56.4 to 65.4 in Passaic County (Woodland Park Borough and the City of Paterson) and in Bergen County (Elmwood Park Borough, Saddle Brook Township, Lodi Borough and the City of Hackensack). In addition there will be a widening of Rt 80 in the WB direction from MP 58.9 to 60.5.

The project limits are from approximately 0.2 mile east of the Squirrelwood Road (CR 636) Interchange in Woodland Park Borough, Passaic County to approximately 0.1 mile west of the S. Summit Rd (CR 57) Interchange in the City of Hackensack, Bergen County.

Structures located within the project limits are: 1610-156, 1610-158, 1610-171, 1610-159, 1610-160, 1610-165, 1610-166, 1610-167, 1610-170, 1610-152; 0225-150, 0225-151, 0225-154, 0225-155, 0225-156, 0225-157, 0225-158, 0225-159; 1609-161, 1609-160; 0225-162, 0225-164, 0225-166, 0225-167, 0225-168; 0226-150, 0226-151

**COUNTY:** Passaic, Bergen

**LEGISLATIVE DISTRICT:** 35, 37, 38, 40

**MUNICIPALITY:** Various

**SPONSOR:** NJDOT

**MILEPOST(S):** 56.43 - 65.4

**STRUCTURE NO.:** Various

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):**

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Rehab and Recon)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	PE	NHPP	\$12.800										\$12.800
NJTPA	DES	NHPP			\$9.000	\$10.000							\$19.000
NJTPA	ROW	STATE				\$3.000							\$3.000
NJTPA	CON	NHPP					\$40.000	\$40.000	\$105.000				\$185.000
NJTPA	CON	STATE					\$60.000	\$60.000					\$120.000

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 80, Bridge over Passaic River, Riverview Drive & Mc Bride Avenue**

*DBNUM: 17316 / UPC: 173160*

Bridge Deck/Superstructure Replacement

**COUNTY:** Passaic

**LEGISLATIVE DISTRICT:** 40

**MUNICIPALITY:** Totowa Boro, Woodland Park Boro

**SPONSOR:** NJDOT

**MILEPOST(S):** 56.29-56.43

**STRUCTURE NO.:** 1610153

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):**

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Bridge Rehab and Replacement)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	DES	STATE		\$4.400									\$4.400
NJTPA	CON	NHPP					\$28.000	\$28.250					\$56.250

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 130, Bridge over Big Timber Creek**

*DBNUM: 14426 / UPC: 144260*

Bridge replacement over Big Timber Creek, approaches & drainage.  
0818-151 Rt. 130 over Big Timber Ck., 0419-150 Rt. 130 under RR.

**COUNTY:** Camden, Gloucester

**LEGISLATIVE DISTRICT:** 5

**MUNICIPALITY:** Brooklawn Boro, Westville Boro

**SPONSOR:** NJDOT

**MILEPOST(S):** 25.35 - 25.58

**STRUCTURE NO.:** 0818151

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** SDX (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Bridge Rehab and Replacement)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
DVRPC	DES	STATE		\$2.500									\$2.500
DVRPC	ROW	STATE				\$0.770							\$0.770
DVRPC	CON	NHPP						\$28.500					\$28.500

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 130, Westfield Ave. to Main Street**

***DBNUM: 11309 / UPC: 113090***

Initiated from the Pavement Management System, this project consists of milling, resurfacing and rehabilitating the roadway within the project limits.

**COUNTY:** Mercer, Middlesex

**LEGISLATIVE DISTRICT:** 14, 16

**MUNICIPALITY:** East Windsor Twp, Cranbury Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 67.8 - 72.8

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S10 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Rehab and Recon)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
DVRPC	CON	NHPP		\$4.981									\$4.981
NJTPA	CON	NHPP		\$4.598									\$4.598



**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 130, Charleston Road/Cooper Street (CR 630) to Crafts Creek**

*DBNUM: 12415 / UPC: 124150*

Initiated from the Pavement Management System, this project will resurface the roadway within the project limits.

**COUNTY:** Burlington

**LEGISLATIVE DISTRICT:** 7

**MUNICIPALITY:** Willingboro Twp, Burlington Twp, Burlington City, Florence Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** NB 43.01-46.73 & 47.38-51.58; SB 47.38-51.58

**STRUCTURE NO.:** 0316154, 0317155, 0317153, 0317154

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S10 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Resurfacing)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
DVRPC	CON	NHPP	\$16.960										\$16.960

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 130, Bridge over Big Timber Creek**

*DBNUM: 14426 / UPC: 144260*

Bridge replacement over Big Timber Creek, approaches & drainage.  
0818-151 Rt. 130 over Big Timber Ck., 0419-150 Rt. 130 under RR.

**COUNTY:** Camden, Gloucester

**LEGISLATIVE DISTRICT:** 5

**MUNICIPALITY:** Brooklawn Boro, Westville Boro

**SPONSOR:** NJDOT

**MILEPOST(S):** 25.35 - 25.58

**STRUCTURE NO.:** 0818151

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** SDX (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Bridge Rehab and Replacement)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
DVRPC	DES	STATE		\$2.500									\$2.500
DVRPC	ROW	STATE				\$0.770							\$0.770
DVRPC	CON	NHPP						\$28.500					\$28.500

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 130, CR 545 (Farnsworth Avenue)**

*DBNUM: 12346A / UPC: 148030*

Initiated from the Office of Bicycle and Pedestrian Programs, this project, a breakout from "Route 130/206, CR 528 (Crosswicks Rd) to Route 206 at Amboy Rd", will address pedestrian and bicycle deficiencies within the project limits.

**COUNTY:** Burlington

**LEGISLATIVE DISTRICT:** 7

**MUNICIPALITY:** Bordentown Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 55.46

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** A2 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Multimodal Programs: Bicycle/Pedestrian)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
DVRPC	DES	STATE		\$1.200									\$1.200
DVRPC	ROW	STATE		\$0.050									\$0.050
DVRPC	CON	STATE				\$3.000							\$3.000

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 173, Bridge over Pohatcong Creek**

*DBNUM: 09320 / UPC: 093200*

Initiated by the Bridge Management System, this project will replace the bridge and provide scour countermeasures to address this scour critical structure.

**COUNTY:** Warren

**LEGISLATIVE DISTRICT:** 23

**MUNICIPALITY:** Greenwich Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 1.40 - 1.60

**STRUCTURE NO.:** 2103152

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S19 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Bridge Rehab and Replacement)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	CON	STATE	\$3.700										\$3.700

**FY 2016-2025 STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 173, Musconetcong River, Culvert Replacement**

*DBNUM: 11353 / UPC: 113530*

Initiated from the Bridge Management System, this project will replace the culvert. Guiderail, retaining walls and headwall improvements will also be performed.

Total construction funding needed is expected to be \$1,050,000.

**COUNTY:** Hunterdon

**LEGISLATIVE DISTRICT:** 23

**MUNICIPALITY:** Bethlehem Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 6.81

**STRUCTURE NO.:** 1003153

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S4 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Culverts)

MPO	Phase	Fund	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total
NJTPA	CON	STATE		\$1.050									\$1.050

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 206, Doctors Way to Valley Road**

*DBNUM: 780B / UPC: 108022*

This project, a breakout of "Route 206, Old Somerville Road to Brown Avenue (15N)" (Southern section), will provide congestion relief, and operational and safety improvements. The project will include widening from two lanes to four lanes, revision of three existing traffic signals and replacement of the bridge over Royce Brook. This project will be bicycle/pedestrian compatible.

**COUNTY:** Somerset

**LEGISLATIVE DISTRICT:** 16

**MUNICIPALITY:** Hillsborough Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 66.36-67.5

**STRUCTURE NO.:** 1810165

**FINANCIAL PLAN REQUIREMENT:** This project is part of a project with a total cost between \$100 and \$500 million programmed to receive federal financial assistance and an annual financial plan is required to be prepared.

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** 2030M (Non-Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Major Widening)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	UTI	NHPP		\$8.500									\$8.500
NJTPA	CON	NHPP			\$16.000	\$16.000							\$32.000

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 206, Valley Road to Brown Avenue**

*DBNUM: 780A / UPC: 108021*

This project, a breakout of "Route 206, Old Somerville Road to Brown Avenue (15N) (Northern Section)", will provide congestion relief, and operational and safety improvements. The project will include widening from two lanes to a four lane dualization, relocation of two existing traffic signals (adding two new jug handles) and replacement of the railroad bridge over Route 206. This project will be bicycle/pedestrian compatible.

**COUNTY:** Somerset

**LEGISLATIVE DISTRICT:** 16

**MUNICIPALITY:** Hillsborough Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 67.5-68.6

**STRUCTURE NO.:** 1810166, 1810167, 1810168

**FINANCIAL PLAN REQUIREMENT:** This project is part of a project with a total cost between \$100 and \$500 million programmed to receive federal financial assistance and an annual financial plan is required to be prepared.

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** 2030M (Non-Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Major Widening)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	ROW	NHPP	\$5.000										\$5.000
NJTPA	UTI	NHPP		\$5.500									\$5.500
NJTPA	CON	NHPP			\$15.000	\$15.000	\$16.000						\$46.000

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 206 Bypass, Mountain View Road to Old Somerville Road (Sections 14A & 15A)**  
**Contract B**

*DBNUM: 779 / UPC: 960597*

This project, which is related to DBNUMs 779A and 779B, will bypass the existing Route 206 roadway by construction of a new roadway, on a new alignment, located East of the present roadway location (between the Old Somerville Road and Amwell Road (CR 514) intersections, and between the Hillsborough Road and Mountain View Road intersections) in Hillsborough Twp.

**COUNTY:** Somerset

**LEGISLATIVE DISTRICT:** 16

**MUNICIPALITY:** Hillsborough Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 63.40 - 66.40

**STRUCTURE NO.:** 1810164

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** 2020M (Non-Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Missing Links)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	UTI	STATE	\$5.000										\$5.000
NJTPA	CON	NHPP	\$20.000	\$17.000	\$15.000								\$52.000



**FY 2016-2025 STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 206, South of Paterson Ave. to South of Pine Rd.**

*DBNUM: 10333 / UPC: 103330*

Initiated from the Pavement Management System, the project is a Mill x, Pave x Resurfacing Project to a maximum of 4 inches. The project includes image detection cameras, upgraded guide rail, curb repair, ADA ramps, and crosswalks where needed.

Total construction funding needed is expected to be \$12,800,000.

**COUNTY:** Sussex

**LEGISLATIVE DISTRICT:** 24

**MUNICIPALITY:** Andover Twp, Newton Town, Hampton Twp, Frankford Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 107.66 - 115.93

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S10 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Resurfacing)

MPO	Phase	Fund	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total
NJTPA	CON	NHPP	\$12.800										\$12.800

**FY 2016-2025 STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

<b>Route 280, Route 21 Interchange Improvements</b>	<b>DBNUM: 00314 / UPC: 003140</b>
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Initiated by the Bridge Management System, this project includes replacement/rehabilitation of six structures within the project limits, and reconfiguration of the interchange to provide full movements and consolidate entrance points.

This project is multi-year funded. Total construction funding needed is expected to be \$125,500,000.

**COUNTY:** Essex, Hudson

**LEGISLATIVE DISTRICT:** 29, 32

**MUNICIPALITY:** Newark City, Harrison Town

**SPONSOR:** NJDOT

**MILEPOST(S):** 13.80 - 15.20

**STRUCTURE NO.:** Various

**FINANCIAL PLAN REQUIREMENT:** This project is part of a project with a total cost between \$100 and \$500 million programmed to receive federal financial assistance and an annual financial plan is required to be prepared.

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** 2020M (Non-Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Bridge Rehab and Replacement)

MPO	Phase	Fund	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total
NJTPA	CON	NHPP	\$42.150	\$20.550	\$26.750	\$1.350							\$90.800

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 287, Interchange 10 Ramp Improvements**

*DBNUM: 9169Q / UPC: 078021*

This project will provide operational improvements to the on and off-ramps to/from Easton Avenue by lengthening the acceleration lanes along I-287 NB.

**COUNTY:** Middlesex, Somerset

**LEGISLATIVE DISTRICT:** 17

**MUNICIPALITY:** Piscataway Twp, Franklin Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 10.27-10.6

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** NR3, S4 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Highway Operational Improvements)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	PE	STATE			\$0.500								\$0.500
NJTPA	DES	STATE				\$1.000							\$1.000
NJTPA	ROW	NHPP						\$1.000					\$1.000
NJTPA	CON	NHPP								\$8.100			\$8.100

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 287, River Road (CR 622), Interchange Improvements**

*DBNUM: 9169R / UPC: 078015*

This project is to make operational improvements to the on-ramp from River Road to reduce the number of vehicles in queue entering the interstate and weaving conditions.

**COUNTY:** Middlesex

**LEGISLATIVE DISTRICT:** 17

**MUNICIPALITY:** Piscataway Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 9.8 - 10.2

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** NR3 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Highway Operational Improvements)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	PE	STATE			\$0.750								\$0.750
NJTPA	DES	STATE				\$0.900							\$0.900
NJTPA	ROW	NHPP						\$1.000					\$1.000
NJTPA	CON	NHPP								\$2.250			\$2.250

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 287/78, I-287/202/206 Interchange Improvements**

*DBNUM: 04389 / UPC: 043890*

This project involves interstate interchange improvements at the I-78 and I-287 Interchange and at the Ramps from I-287 to the Rt. 202/206 interchange. The I-78 EB to I-287 NB Ramp will be shifted from a left-lane entrance onto I-287 NB to a right-lane entrance onto I-287 NB. This modification will eliminate the five-lane weave required for vehicles traveling on I-78 EB who use I-287 NB to access Rt. 202/206 (Pluckemin).

**COUNTY:** Somerset

**LEGISLATIVE DISTRICT:** 23

**MUNICIPALITY:** Bedminster Twp, Bridgewater Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** RT 287 20.5-22.3

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** 2030M (Non-Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Highway Operational Improvements)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	CON	NHPP	\$12.200										\$12.200

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 295/42/I-76, Direct Connection, Contract 3**

*DBNUM: 355D / UPC: 113020*

This project relieves the existing bottleneck at the interchange by constructing a direct connection on I-295 and other highway improvements that will reduce congestion and enhance traffic operations and safety throughout the project area. The improvements include a six lane mainline through the interchange, elimination of dangerous merging and weaving movements, upgrades to ramp geometry and the addition of shoulders throughout the interchange. Contract 3 will include the completion of the new I-295 North bound and Southbound structures over I-76, Route 42, Ramps C and E, and Browning Road; the new Ramp A (Route 42 Northbound to I-295 Northbound) bridge will be completed under this contract along with a portion of Ramp F (I-76 Eastbound to I-295 Southbound); and the new I-295 Southbound direct connection and Ramp A will be opened to traffic upon completion of this contract. Contract 3 is a breakout of "Route 295/42/I-76, Direct Connection, Camden County".

**COUNTY:** Camden

**LEGISLATIVE DISTRICT:** 5

**MUNICIPALITY:** Bellmawr Boro, Mount Ephraim Boro

**SPONSOR:** NJDOT

**MILEPOST(S):** 26.41 - 27.8

**STRUCTURE NO.:** 0427158

**FINANCIAL PLAN REQUIREMENT:** This project is part of a Major Project which is defined as a project with a total estimated cost of \$500 million or more that is receiving federal financial assistance and an annual financial management plan is required to be prepared.

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** 2025M (Non-Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Highway Operational Improvements)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
DVRPC	CON	NHFP-HWY	\$29.607	\$33.308									\$62.915
DVRPC	CON	NHPP	\$33.393	\$3.692									\$37.085

Updated numbers provided in  
Chapter 7 text.

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 295/42/I-76, Direct Connection, Contract 4**

*DBNUM: 355E / UPC: 113030*

This project relieves the existing bottleneck at the interchange by constructing; a direct connection on I-295 and other highway improvements that will reduce congestion and enhance traffic operations and safety throughout the project area. The improvements include; a six lane mainline through the interchange, elimination of dangerous merging and weaving movements, upgrades to ramp geometry and the addition of shoulders throughout the interchange. Contract 4 includes the reconstruction of I-76 and Route 42 along the entire project limits; the completion of new Ramps C & F, and the completion the new I-295 Northbound direct connection. Contract 4 is a breakout of "Route 295/42/I-76, Direct Connection, Camden County".

**COUNTY:** Camden

**LEGISLATIVE DISTRICT:** 5

**MUNICIPALITY:** Bellmawr Boro, Mount Ephraim Boro

**SPONSOR:** NJDOT

**MILEPOST(S):** 26.41 - 27.8

**STRUCTURE NO.:** Various

**FINANCIAL PLAN REQUIREMENT:** This project is part of a Major Project which is defined as a project with a total estimated cost of \$500 million or more that is receiving federal financial assistance and an annual financial management plan is required to be prepared.

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** 2025M (Non-Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Highway Operational Improvements)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
DVRPC	CON	NHFP-HWY			\$37.009	\$39.633	\$42.442	\$45.451					\$164.535
DVRPC	CON	NHPP			\$12.991	\$10.367	\$32.558	\$4.549					\$60.465

Updated numbers provided  
in Chapter 7 text.

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 295/42, Missing Moves, Bellmawr**

*DBNUM: 355A / UPC: 950541*

This project consists of new ramps and related improvements to enable motorists to make movements between I-295 and Route 42 which are not possible in the current configuration. Other project improvements include the re-striping of Route 55 Northbound, from one lane to two lanes, from the existing point, where Route 55 Northbound tapers from two lanes to one lane, up to the tie-in with Route 42 Northbound. The second lane on Route 55 Northbound will become a continuous auxiliary lane, up to the proposed entrance to new Ramp A, connecting Route 42 Northbound to I-295 Southbound. The existing Leaf Avenue ramps off Route 42 Northbound will be relocated approximately 750 feet to the South and will intersect with Benigno Blvd. The new exit location off Route 42 Northbound requires a ramp connection, separated from the mainline, to prevent queued traffic at the new intersection from mixing with mainline traffic. This ramp connection splits off from the Ramp A entrance on the left and runs parallel to Route 42 to the new intersection; which will be signalized. Benigno Blvd. will be realigned to meet Edgewood Avenue, and Wellwood Avenue will be extended to a T-intersection with Benigno Blvd.

**COUNTY:** Camden, Gloucester

**LEGISLATIVE DISTRICT:** 5

**MUNICIPALITY:** Bellmawr Boro, Westville Boro, Deptford Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** Rt. 295: 25.07 - 26.35; Rt. 42: 12.57 - 13.90; Rt 55: 59.83 - 60.54

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:** This project is part of a project with a total cost between \$100 and \$500 million programmed to receive federal financial assistance and an annual financial plan is required to be prepared.

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** 2025M (Non-Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Highway Operational Improvements)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
DVRPC	CON	NHPP		\$53.000	\$53.000	\$54.000							\$160.000



**FY 2016-2025 STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 440, CR 514 (Woodbridge Avenue) to Kreil Avenue**

**DBNUM: 14355 / UPC: 143550**

Concrete Pavement Repair

Total construction funding needed is expected to be \$25,000,000.

**COUNTY:** Middlesex

**LEGISLATIVE DISTRICT:** 18, 19

**MUNICIPALITY:** Edison Twp, Woodbridge Twp, Perth Amboy City

**SPONSOR:** NJDOT

**MILEPOST(S):** 0.2 - 4.0

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S10 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Road Assets: Highway Resurfacing)

MPO	Phase	Fund	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total
NJTPA	PE	NHPP		\$1.000									\$1.000
NJTPA	DES	NHPP				\$2.500							\$2.500
NJTPA	CON	NHPP						\$25.000					\$25.000

**FY 2016-2025 STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 440, Bayonne Bridge Navigational Clearance Project**

*DBNUM: N1301 / UPC: 133420*

This project entails increasing the air draft of the Bayonne Bridge by raising the roadway within the existing arch span by 64 feet, from 151 feet to 215 feet. Additionally, the new roadway will be wider (to better conform to AASHTO standards), and the 6-foot wide pedestrian walkway will be widened to a 12-foot wide shared-use path accommodating pedestrians and cyclists. A new higher roadway will be constructed within the existing constraints on the main span. The existing approach roads will be demolished and new, wider approaches will be constructed. The new approaches will have 8-foot wide outside shoulders and 4-foot wide inside shoulders. During construction, the median will be removable channelizer posts. Once the full bridge is completed, jersey barriers will be used in the median. The existing toll plaza will be demolished and replaced. Estimated duration of construction is about 3.5 years, during which time traffic will be reduced to one 12.5-foot lane per direction, with nightly road closures and 8 full weekend closures per year. ITS sign structures (including VMS, VLS, CCTV and road sensors) will be constructed along the rehabilitated roadway. (On the NY side the project is in The City of New York, Richmond County.)

Total construction funding needed is expected to be \$540,000,000.

**COUNTY:** Hudson

**LEGISLATIVE DISTRICT:** 31

**MUNICIPALITY:** Bayonne City

**SPONSOR:** PANYNJ

**MILEPOST(S):** 12.02-12.78

**STRUCTURE NO.:**

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S19 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Bi-State Bridges)

MPO	Phase	Fund	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total
NJTPA	ERC	OTHER	\$230.000	\$230.000									\$460.000

**FY 2016-2025 STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 495, Route 1&9/Paterson Plank Road Bridge**

**DBNUM: 06373 / UPC: 063730**

Initiated by the Bridge Management System, this project will replace the bridge deck and deteriorated structural steel, and also includes substructure repairs and bridge painting. The bridge was built in 1939.

This project is multi-year funded. Total construction funding needed is expected to be \$67,499,900.

**COUNTY:** Hudson

**LEGISLATIVE DISTRICT:** 32

**MUNICIPALITY:** North Bergen Twp

**SPONSOR:** NJDOT

**MILEPOST(S):** 0.8 - 1.0

**STRUCTURE NO.:** 0917150

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S19 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Bridge Rehab and Replacement)

MPO	Phase	Fund	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total
NJTPA	CON	NHPP	\$29.933	\$25.451	\$12.116								\$67.500

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Portway, Fish House Road/Pennsylvania Avenue, CR 659**

*DBNUM: 97005B / UPC: 028041*

This project provides roadway reconstruction. The project includes two 12-ft lanes, and a 12-ft shoulder, Eastbound and Westbound, along Pennsylvania Ave/Fish House Rd. Sidewalks will be provided along the Eastbound side of Central Ave to approximately 250 feet East of the intersection of the two roadways.

**COUNTY:** Hudson

**LEGISLATIVE DISTRICT:** 32

**MUNICIPALITY:** Kearny Town

**SPONSOR:** NJDOT

**MILEPOST(S):** 0.5-1.4

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S4, S7 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Local System Support: Local Roadway Improvements)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	ROW	STATE	\$3.000										\$3.000
NJTPA	CON	STP			\$11.650	\$11.650							\$23.300

**FY 2016-2025 STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 676, Bridges over North Branch of Newton Creek**

*DBNUM: 14322 / UPC: 143220*

Initiated by the Bridge Management System, this project will replace the decks of the Route 676 Southbound over North Branch of Newton Creek structure and the Route 676 Northbound over North Branch of Newton Creek structure. Sub-structure repair will be performed on the latter structure, as well. The project also includes pavement resurfacing within the project limits.

Total construction funding needed is expected to be \$5,900,000.

**COUNTY:** Camden

**LEGISLATIVE DISTRICT:** 5

**MUNICIPALITY:** Camden City

**SPONSOR:** NJDOT

**MILEPOST(S):** 0.70

**STRUCTURE NO.:** 0418154

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S19 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Deck Rehab and Replacement)

MPO	Phase	Fund	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total
DVRPC	DES	NHPP		\$1.500									\$1.500
DVRPC	CON	STATE			\$5.900								\$5.900

This study was initiated due to fixed object crashes at this location. Route 1&9 at the CSAO railroad overpass is frequently hit by heavy vehicle traffic because the posted clearance (13 feet - 6 inches) may be incorrect. The study also focuses on seeking a preferred alternative for pedestrians that must traverse under the overpass from intersections on each side of the bridge.

**COUNTY:** Union

**MUNICIPALITY:** Linden City

**MILEPOSTS:** 40.01-40.07

**STRUCTURE NO.:** 2001153

**LEGISLATIVE DISTRICT:** 22

**SPONSOR:** NJDOT

**ASSET MANAGEMENT CATEGORY:** Safety Management: Safety Improvements

<b>MPO</b>	<b>Phase</b>	<b>Year</b>
NJTPA	CD	2018
NJTPA	CD	2019

**FY 2016-2025 STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 1&9, Avenue C to Sylvan Street**

**DBNUM: 12311 / UPC: 123110**

There are fixed object crashes at this location. Route 1&9 at the CSAO railroad overpass is frequently hit by heavy vehicle traffic because the posted clearance (13 feet - 6 inches) may be incorrect. Also, the existing structure consists of a safety problem for pedestrians that must traverse a narrow passageway between the existing abutment and guiderail.

Total construction funding needed is expected to be \$2,700,000.

**COUNTY:** Union

**LEGISLATIVE DISTRICT:** 22

**MUNICIPALITY:** Linden City

**SPONSOR:** NJDOT

**MILEPOST(S):** 40.01-40.07

**STRUCTURE NO.:** 2001153

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** AQ2, O10A, S1 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Safety (Safety Management: Safety Improvements)

MPO	Phase	Fund	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total
NJTPA	PE	NHPP	\$0.300										\$0.300
NJTPA	DES	NHPP		\$0.500									\$0.500
NJTPA	ROW	NHPP			\$0.200								\$0.200
NJTPA	CON	NHPP				\$2.700							\$2.700

**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 1&9, Interchange at Route I-278**

*DBNUM: 95023 / UPC: 950177*

A study to propose improvements in order to address the problem of missing ramps at the interchange.

**COUNTY:** Union

**LEGISLATIVE DISTRICT:** 22

**MUNICIPALITY:** Linden City

**SPONSOR:** NJDOT

**MILEPOST(S):** 42.20

**STRUCTURE NO.:** 2015153

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** NR3 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Congestion Relief: Highway Operational Improvements)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
NJTPA	CON	OTHER						\$65.000					\$65.000



**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**Route 76/676 Bridge Deck Replacements**

*DBNUM: 11326 / UPC: 113260*

Initiated by the Bridge Management System, this project will replace the bridge decks on three structures: 76/676 over the Main Branch of the Newton Creek; Route 76 over Nicholson Road; and 676 Southbound over the Main Branch of the Newton Creek. The superstructure of Route 76 over the South Branch of the Newton Creek, Conrail and Lemm Avenue will also be replaced.

**COUNTY:** Camden

**LEGISLATIVE DISTRICT:** 5

**MUNICIPALITY:** Camden City, Gloucester City

**SPONSOR:** NJDOT

**MILEPOST(S):** Rt 76: 0.70 - 1.7, Rt 676: 0 - 1.0

**STRUCTURE NO.:** 0417158, 0418162, 0418163

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** S19 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Bridge Assets: Bridge Rehab and Replacement)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
DVRPC	CON	NHPP			\$10.000	\$10.000	\$10.000	\$10.050					\$40.050

**FY 2016-2025 STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**River Road Improvements, Cramer Hill**

*DBNUM: D0902 / UPC: 098008*

This project will help implement a multi-phase effort to address the long standing issue of heavy truck traffic along River Road/River Avenue through Cramer Hill in the City of Camden. It will remove truck traffic from the Cramer Hill neighborhood's commercial and residential streets to improve the quality of life for residents and businesses, such as reducing air and noise pollution and improving public safety. A series of traffic control, traffic calming, and pedestrian measures recommended by the River Road Truck Traffic Management Study will be implemented between the intersections of River Road and State Street in Camden, New Jersey to River Road and Sherman Avenue in Pennsauken, New Jersey. Measures include: high visibility crosswalks, truck route signage, signal timing changes to slow area traffic, bulbouts, medians and intersection geometric improvements. Total construction funding needed is expected to be \$3,975,000. The following special federal appropriations have been allocated for this project \$4,005,900 (NJ253);\$1,002,341 (NJ268).

**COUNTY:** Camden

**LEGISLATIVE DISTRICT:** 5

**MUNICIPALITY:** Camden City

**SPONSOR:** Camden City

**MILEPOST(S):**

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** A2 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Mobility and Congestion Relief (Local System Support: Local Mobility Improvements)

MPO	Phase	Fund	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total
DVRPC	ERC	DEMO	\$3.975										\$3.975





**FY 2018-2027 DRAFT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM**  
**New Jersey Department of Transportation Project Descriptions**  
(\$ millions)

**New Jersey Rail Freight Assistance Program**

*DBNUM: X34*

This program funds the rehabilitation and improvement of key elements of the New Jersey rail freight network. Funds are used for acquisition, rehabilitation, facility construction, and substitute service assistance under the State Freight Assistance Program. The program provides matching funds to federal grants and to participate in other projects and programs that improve the intermodal goods movement network and support economic development initiatives. The program also provides funding for the design, construction, reconstruction, rehabilitation, land acquisition, and environmental mitigation of freight rail projects that: are significant to port commerce connectivity; eliminate rail freight missing links to port facilities; or upgrade freight rail trackage to a 286,000 pound load carrying capacity. This program provides \$8 million to the State Freight Assistance

**COUNTY:** Various

**LEGISLATIVE DISTRICT:** Various

**MUNICIPALITY:** Various

**SPONSOR:** NJDOT

**MILEPOST(S):** N/A

**STRUCTURE NO.:** N/A

**FINANCIAL PLAN REQUIREMENT:**

**AIR QUALITY CODE (NON-EXEMPT/EXEMPT):** NRS, O8 (Exempt)

**ASSET MANAGEMENT CATEGORY:** Infrastructure Preservation (Multimodal Programs: Goods Movement)

MPO	Phase	Fund	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
Statewide	EC	NHFP-RAIL	\$1.771	\$3.399	\$3.777	\$4.044	\$4.331	\$4.638	\$4.967	\$5.319	\$5.696	\$6.099	\$44.039
Statewide	EC	STATE	\$25.000	\$25.000	\$25.000	\$25.000	\$25.000	\$25.000	\$25.000	\$25.000	\$25.000	\$25.000	\$250.000



# APPENDIX F FUNDING FOR STIP PROJECTS

ID	MPO	County	DBNUM	Route	Project Name	Funding Source	Project Type	Category	Category- Detail	Through 2016	2017	2018	2019	2020	2021	2022-2027	TOTAL
8	DVRPC	Burlington	12415	130	Route 130, Charleston Road/Cooper Street (CR 630) to Crafts Creek	NHPP	Pavement	Infrastructure Preservation	Road Assets: Highway Resurfacing			\$ 16.96					\$ 16.96
1	DVRPC	Burlington	12346A	130	Route 130, CR 545 (Farnsworth Avenue)	STATE	Safety	Infrastructure Preservation	Multimodal Programs: Bicycle/Pedestrian	\$ 0.50			\$ 1.25		\$ 3.00		\$ 4.75
11	DVRPC	Burlington	191A	295/38	Route 295/38 Missing Moves (Mount Laurel)	STATE	Operations	Mobility and Congestion Relief				\$ 2.000		\$ 6.000			\$ 8.00
11	DVRPC	Burlington	191A	295/38	Route 295/38 Missing Moves (Mount Laurel)	NHPP	Operations	Mobility and Congestion Relief				\$ 6.000			\$ 8.000	\$ 27.000	\$ 41.00
11	DVRPC	Burlington	191A	295/38	Route 295/38 Missing Moves (Mount Laurel)	NHFP-HWY	Operations	Mobility and Congestion Relief								\$ 72.000	\$ 72.00
14, 23	DVRPC	Camden	355D	295	Route 295/42/I-76, Direct Connection, Contract 3	NHFP-HWY	Bottleneck	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements	\$ 28.37	\$ 25.97	\$ 26.66	\$ 33.99				\$ 114.99
14, 23	DVRPC	Camden	355D	295	Route 295/42/I-76, Direct Connection, Contract 3	NHPP	Bottleneck	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements			\$ 33.39	\$ 3.69				\$ 37.09
22	DVRPC	Camden	11326A	76	Route 76, Bridges over Route 130	STATE	Bridge	Infrastructure Preservation	Bridge Assets: Bridge Rehab and Replacement			\$ 2.50					\$ 2.50
19	DVRPC	Camden	14322	676	Route 676, Bridges over North Branch of Newton Creek	NHPP	Bridge	Infrastructure Preservation	Bridge Assets: Deck Rehab and Replacement		\$ 1.50						\$ 1.50
19	DVRPC	Camden	14322	676	Route 676, Bridges over North Branch of Newton Creek	STATE	Bridge	Infrastructure Preservation	Bridge Assets: Deck Rehab and Replacement			\$ 5.90					\$ 5.90
19	DVRPC	Camden		676	Replace Moveable Barrier	DRPA	Bridge	Infrastructure Preservation				\$ 7.20					\$ 7.20
19	DVRPC	Camden		676	Masonry Rehabilitation	DRPA	Bridge	Infrastructure Preservation				\$ 5.80					\$ 5.80
19	DVRPC	Camden		676	Tower Expansion Joint Rehabilitation	DRPA	Bridge	Infrastructure Preservation				\$ 7.00					\$ 7.00
19, 22	DVRPC	Camden	11326	76/ 676	Route 76/676 Bridge Deck Replacements	NHPP	Bridge	Infrastructure Preservation	Bridge Assets: Bridge Rehab and Replacement					\$ 10.00	\$ 10.00	\$ 20.05	\$ 40.05
14, 23	DVRPC	Camden	355E	295	Route 295/42/I-76, Direct Connection, Contract 4	NHFP-HWY	ITS	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements					\$ 37.76	\$ 39.63	\$ 87.89	\$ 165.29
14, 23	DVRPC	Camden	355E	295	Route 295/42/I-76, Direct Connection, Contract 4	NHPP	ITS	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements					\$ 12.99	\$ 10.37	\$ 37.11	\$ 60.47
20	DVRPC	Camden	D0902	River Rd	River Road Improvements, Cramer Hill	FWHA-HIGH PRIORITY	Operations	Mobility and Congestion Relief	Local System Support: Local Mobility Improvements	\$ 4.00							\$ 4.00
19	DVRPC	Camden		676	Bridge Deck Resurfacing	DRPA	Pavement	Infrastructure Preservation			\$ 10.05						\$ 10.05
22	DVRPC	Camden	11326A	76	Route 76, Bridges over Route 130	NHPP	Bridge	Infrastructure Preservation	Bridge Assets: Bridge Rehab and Replacement					\$ 14.50	\$ 15.34		\$ 29.84
16, 23	DVRPC	Camden, Gloucester	355A	295/38	Route 295/42, Missing Moves, Bellmawr	NHPP	Bottleneck	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements			\$ 53.00	\$ 53.00	\$ 54.00			\$ 160.00
32	DVRPC	Camden, Gloucester	14426	130	Route 130, Bridge over Big Timber Creek	NHPP	Bridge	Infrastructure Preservation	Bridge Assets: Bridge Rehab and Replacement							\$ 28.50	\$ 28.50
32	DVRPC	Camden, Gloucester	14426	130	Route 130, Bridge over Big Timber Creek	STATE	Bridge	Infrastructure Preservation	Bridge Assets: Bridge Rehab and Replacement			\$ 2.50			\$ 0.77		\$ 3.27
31	DVRPC	Gloucester	14348	45	Route 45, Bridge over Woodbury Creek	STATE	Bridge	Infrastructure Preservation	Bridge Assets: Bridge Rehab and Replacement			\$ 0.40	\$ 1.00	\$ 0.50	\$ 9.00		\$ 10.90
30	DVRPC	Gloucester	12305	47	Route 47, Grove St. to Route 130, Pavement	STATE	Pavement	Infrastructure Preservation	Road Assets: Highway Rehab and Recon			\$ 2.50	\$ 2.50				\$ 5.00

ID	MPO	County	DBNUM	Route	Project Name	Funding Source	Project Type	Category	Category- Detail	Through 2016	2017	2018	2019	2020	2021	2022-2027	TOTAL
30	DVRPC	Gloucester	12305	47	Route 47, Grove St. to Route 130, Pavement	STP	Pavement	Infrastructure Preservation	Road Assets: Highway Rehab and Recon						\$ 10.00	\$ 14.94	\$ 24.94
	DVRPC	Gloucester	N1709	rail	Replacement of Bridge 3.08 in ConRail Passaic and Harsimus (P&H) line	NHFP-RAIL	Rail	Infrastructure Preservation	Rail								
	DVRPC	Gloucester	N1709	rail	Replacement of Bridge 3.08 in ConRail Passaic and Harsimus (P&H) line	OTHER	Rail	Infrastructure Preservation	Rail								
30	DVRPC	Gloucester, Camden	11371	47	Route 47, Bridge over Big Timber Creek	STATE	Bridge	Infrastructure Preservation	Bridge Assets: Bridge Rehab and Replacement				\$ 6.30		\$ 10.00	\$ 17.90	\$ 34.20
269	DVRPC	Gloucester, Salem	14363	45	Route 45, Main Street (CR672) to Chestnut Street	STATE	Pavement	Infrastructure Preservation	Road Assets: Highway Resurfacing	\$ 10.90							\$ 10.90
307	DVRPC	Mercer	17419	1	Route 1, Alexander Road to Mapleton Road	CMAQ	Bottleneck	Mobility and Congestion Relief	Congestion Relief: Major Widening						\$ 3.00	\$ 27.90	\$ 30.90
307	DVRPC	Mercer	17419	1	Route 1, Alexander Road to Mapleton Road	STATE	Bottleneck	Mobility and Congestion Relief	Congestion Relief: Major Widening			\$ 1.50		\$ 2.50			\$ 4.00
306	DVRPC	Mercer	08355	31	Route 31, Bridge over CSX Railroad	NHPP	Bridge	Infrastructure Preservation	Bridge Assets: Bridge Rehab and Replacement		\$ 7.00	\$ 5.50					\$ 12.50
307	DVRPC	Mercer	12406	1	Route 1, CR 533 (Quakerbridge Road) to Ridge Road	NHPP	Pavement	Infrastructure Preservation	Road Assets: Highway Resurfacing		\$ 13.36						\$ 13.36
306	DVRPC	Mercer	12401	31	Route 31, Bull Run Road to Branch of Stoney Brook	NHPP	Pavement	Infrastructure Preservation	Road Assets: Highway Resurfacing			\$ 8.90					\$ 8.90
307	DVRPC	Mercer	01330A	1	Route 1, Southbound, Nassau Park Boulevard to Quaker Bridge Mall Overpass	NHPP	Safety	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements			\$ 16.95					\$ 16.95
65	NJTPA	Bergen	11357	17	Route 17, Sprout Brook, Culvert Replacement	NHPP	Bridge	Infrastructure Preservation	Bridge Assets: Culverts							\$ 4.38	\$ 4.38
65	NJTPA	Bergen	11357	17	Route 17, Sprout Brook, Culvert Replacement	STATE	Bridge	Infrastructure Preservation	Bridge Assets: Culverts			\$ 0.30	\$ 0.60				\$ 0.90
49, 57	NJTPA	Bergen	14319	17	Route 17, Bridges over NYS&W RR & RR Spur & Central Avenue (CR 44)	NHPP	Bridge	Infrastructure Preservation	Bridge Assets: Deck Rehab and Replacement							\$ 31.35	\$ 31.35
49, 57	NJTPA	Bergen	14319	17	Route 17, Bridges over NYS&W RR & RR Spur & Central Avenue (CR 44)	STATE	Bridge	Infrastructure Preservation	Bridge Assets: Deck Rehab and Replacement				\$ 2.00				\$ 2.00
51	NJTPA	Bergen	12428	46	Route 46, Bergen Boulevard to Route 124 (Bergen Turnpike)	NHPP	Pavement	Infrastructure Preservation	Road Assets: Highway Resurfacing				\$ 4.53				\$ 4.53
70	NJTPA	Bergen	065C	4	Route 4, Bridge over Palisade Avenue, Windsor Road and CSX Railroad	NHPP	Bridge	Infrastructure Preservation	Bridge Assets: Bridge Rehab and Replacement							\$ 53.50	\$ 53.50
70	NJTPA	Bergen	065C	4	Route 4, Bridge over Palisade Avenue, Windsor Road and CSX Railroad	STATE	Bridge	Infrastructure Preservation	Bridge Assets: Bridge Rehab and Replacement			\$ 4.00		\$ 2.00			\$ 6.00
40, 64, 70	NJTPA	Bergen	12431B	4	Route 4, Tunbridge Road to Route 9W	NHPP	Pavement	Infrastructure Preservation	Road Assets: Highway Resurfacing				\$ 12.00	\$ 12.08			\$ 24.08
40, 64, 70	NJTPA	Bergen, Passaic	12431	4	Route 4, Route 20 to Route 1&9	NHPP	Pavement	Infrastructure Preservation	Road Assets: Highway Resurfacing				\$ 10.00	\$ 20.00			\$ 30.00
79, 83	NJTPA	Essex	99381	21	Route 21, Newark Needs Analysis, Murray Street to Edison Place	NHPP	Capacity	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements							\$ 32.80	\$ 32.80
79, 83	NJTPA	Essex	99381	21	Route 21, Newark Needs Analysis, Murray Street to Edison Place	STATE	Capacity	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements			\$ 1.30		\$ 1.80			\$ 3.10



ID	MPO	County	DBNUM	Route	Project Name	Funding Source	Project Type	Category	Category- Detail	Through 2016	2017	2018	2019	2020	2021	2022-2027	TOTAL
39, 106	NJTPA	Essex		I-95	Interchange 15W/ 16W Improvements	NJTA	Operations			\$ 10.00							\$ 10.00
	NJTPA	Essex	17378	rail	Penns Grove Secondary Siding Installation	NHFP-RAIL	Rail				\$ 1.56						\$ 1.56
	NJTPA	Essex	17378	rail	Penns Grove Secondary Siding Installation	OTHER	Rail				\$ 0.39						\$ 0.39
73	NJTPA	Essex, Hudson	00314	280	Route 280, Route 21 Interchange Improvements	NHPP	Bridge	Infrastructure Preservation	Bridge Assets: Bridge Rehab and Replacement	\$ 42.15	\$ 20.55	\$ 26.75	\$ 1.35				\$ 90.80
112	NJTPA	Hudson	12386	3	Route 3 & Route 495 Interchange	NHPP	Bridge	Infrastructure Preservation	Bridge Assets: Bridge Rehab and Replacement							\$ 57.85	\$ 57.85
112	NJTPA	Hudson	12386	3	Route 3 & Route 495 Interchange	STATE	Bridge	Infrastructure Preservation	Bridge Assets: Bridge Rehab and Replacement			\$ 3.25					\$ 3.25
95	NJTPA	Hudson	N1301	440	Route 440, Bayonne Bridge Navigational Clearance Project	PANYNJ	Bridge	Infrastructure Preservation	Bridge Assets: Bi-State Bridges	\$ 770.00	\$ 230.00						#####
113	NJTPA	Hudson	06373	495	Route 495, Route 1&9/ Paterson Plank Road Bridge	NHPP	Bridge	Infrastructure Preservation	Bridge Assets: Bridge Rehab and Replacement	\$ 29.93	\$ 25.45	\$ 12.12					\$ 67.50
107	NJTPA	Hudson	93186	7	Route 7, Kearny, Drainage Improvements	NHPP	Drainage	Infrastructure Preservation	Road Assets: Drainage						\$ 18.00	\$ 54.00	\$ 72.00
107	NJTPA	Hudson	93186	7	Route 7, Kearny, Drainage Improvements	STATE	Drainage	Infrastructure Preservation	Road Assets: Drainage	\$ 1.00		\$ 9.40					\$ 10.40
108	NJTPA	Hudson	97005B	659	Portway, Fish House Road/Pennsylvania Avenue, CR 659	STATE	Pavement	Infrastructure Preservation	Local System Support: Local Roadway Improvements			\$ 3.00					\$ 3.00
108	NJTPA	Hudson	97005B	659	Portway, Fish House Road/Pennsylvania Avenue, CR 659	STP	Pavement	Infrastructure Preservation	Local System Support: Local Roadway Improvements					\$ 11.65	\$ 11.65		\$ 23.30
252	NJTPA	Hunterdon	11353	173	Route 173, Musconetcong River, Culvert Replacement	STATE	Bridge	Infrastructure Preservation	Bridge Assets: Culverts		\$ 1.05						\$ 1.05
143, 146	NJTPA	Middlesex	079A	9	Route 9/35, Main Street Interchange	NHPP	Bottleneck	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements			\$ 0.50	\$ 1.20			\$ 35.80	\$ 37.50
214	NJTPA	Middlesex	9169R	287	Route 287, River Road (CR 622), Interchange Improvements	NHPP	Operations	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements							\$ 3.25	\$ 3.25
214	NJTPA	Middlesex	9169R	287	Route 287, River Road (CR 622), Interchange Improvements	STATE	Operations	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements					\$ 0.75	\$ 0.90		\$ 1.65
139	NJTPA	Middlesex	12434	27	Route 27, Bridge Street (CR 669) to Frederic Street	STP	Pavement	Infrastructure Preservation	Road Assets: Highway Resurfacing		\$ 3.30						\$ 3.30
134, 145, 153	NJTPA	Middlesex	14355	440	Route 440 ,CR514 (Woodbridge Avenue) to Kreil Avenue	NHPP	Pavement	Infrastructure Preservation	Road Assets: Highway Resurfacing	\$ 1.00			\$ 2.50		\$ 25.00		\$ 28.50
214	NJTPA	Middlesex, Somerset	9169Q	287	Route 287, Interchange 10 Ramp Improvements	NHPP	Operations	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements							\$ 9.10	\$ 9.10
214	NJTPA	Middlesex, Somerset	9169Q	287	Route 287, Interchange 10 Ramp Improvements	STATE	Operations	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements					\$ 0.50	\$ 1.00		\$ 1.50
237	NJTPA	Middlesex, Union	10316A	27	Route 27 ADA Ramps, Evergreen St to Elizabeth River	NHPP	Safety	Infrastructure Preservation	Multimodal Programs: Bicycle/Pedestrian				\$ 10.60				\$ 10.60
167	NJTPA	Monmouth	12308	35	Route 35, North of Lincoln Dr to Navesink River Bridge	NHPP	Pavement	Infrastructure Preservation	Road Assets: Highway Resurfacing	\$ 4.10							\$ 4.10
183	NJTPA	Morris	93139	80	Route 80, Route 15 Interchange	NHPP	Bottleneck	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements							\$ 56.50	\$ 56.50

ID	MPO	County	DBNUM	Route	Project Name	Funding Source	Project Type	Category	Category- Detail	Through 2016	2017	2018	2019	2020	2021	2022-2027	TOTAL
183	NJTPA	Morris	93139	80	Route 80, Route 15 Interchange	STATE	Bottleneck	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements					\$ 6.00	\$ 1.00		\$ 7.00
191	NJTPA	Ocean	11418	9	Route 9, Indian Head Road to Central Ave/Hurley Ave, Pavement	NHPP	Pavement	Infrastructure Preservation	Road Assets: Highway Rehab and Recon			\$ 2.00	\$ 0.75	\$ 11.70	\$ 39.00		\$ 53.45
196	NJTPA	Passaic	17316	80	Route 80, Bridge over Passaic River, Riverview Drive & Mc Bride Avenue	NHPP	Bridge	Infrastructure Preservation	Bridge Assets: Bridge Rehab and Replacement							\$ 56.25	\$ 56.25
196	NJTPA	Passaic	17316	80	Route 80, Bridge over Passaic River, Riverview Drive & Mc Bride Avenue	STATE	Bridge	Infrastructure Preservation	Bridge Assets: Bridge Rehab and Replacement				\$ 4.40				\$ 4.40
195	NJTPA	Passaic	059B	3	Route 3, Route 46, Valley Road and Notch/Rifle Camp Road Interchange, Contract B	NHPP	Capacity	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements				\$ 34.75	\$ 35.95	\$ 35.45	\$ 29.50	\$ 135.65
202	NJTPA	Passaic	06366C	46	Route 46, Route 23 (Pompton Avenue) to Route 20, ITS	NHPP	ITS	Mobility and Congestion Relief	Congestion Relief: Intelligent Transportation Systems	\$ 0.50			\$ 5.90				\$ 6.40
71, 196, 200, 201	NJTPA	Passaic	11341	80	Route 80 EB, Fairfield Road (CR 679) to Route 19	NHPP	Pavement	Infrastructure Preservation	Road Assets: Highway Rehab and Recon			\$ 7.40					\$ 7.40
44, 196, 198	NJTPA	Passaic, Bergen	11415	80	Route 80 WB, McBride Avenue (CR 639) to Polify Road (CR 55)	NHPP	Pavement	Infrastructure Preservation	Road Assets: Highway Rehab and Recon						\$ 3.00	\$ 120.00	\$ 123.00
44, 196, 198	NJTPA	Passaic, Bergen	11415	80	Route 80 WB, McBride Avenue (CR 639) to Polify Road (CR 55)	STATE	Pavement	Infrastructure Preservation	Road Assets: Highway Rehab and Recon			\$ 12.80		\$ 9.00	\$ 10.00	\$ 185.00	\$ 216.80
71, 201	NJTPA	Passaic, Essex	9233B6	80	Route 23, Route 80 and Route 46 Interchange	NHPP	Capacity	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements							\$ 29.00	\$ 29.00
71, 201	NJTPA	Passaic, Essex	9233B6	80	Route 23, Route 80 and Route 46 Interchange	STATE	Capacity	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements				\$ 2.50		\$ 0.50		\$ 3.00
205	NJTPA	Somerset	04389	287	Route 287/78, I-287/202/206 Interchange Improvements	NHPP	Bottleneck	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements	\$ 10.00	\$ 10.00	\$ 12.20					\$ 32.20
211	NJTPA	Somerset	779	206	Route 206 Bypass, Mountain View Road to Old Somerville Road (Sections 14A & 15A) Contract B	NHPP	Capacity	Mobility and Congestion Relief	Congestion Relief: Missing Links			\$ 25.00	\$ 17.00	\$ 15.00			\$ 57.00
211	NJTPA	Somerset	779	206	Route 206 Bypass, Mountain View Road to Old Somerville Road (Sections 14A & 15A) Contract B	STATE	Capacity	Mobility and Congestion Relief	Congestion Relief: Missing Links			\$ 5.00					\$ 5.00
211	NJTPA	Somerset	780A	206	Route 206, Valley Road to Brown Avenue	NHPP	Capacity	Mobility and Congestion Relief	Congestion Relief: Major Widening			\$ 5.00	\$ 5.50	\$ 15.00	\$ 15.00	\$ 16.00	\$ 56.50
211	NJTPA	Somerset	780B	206	Route 206, Doctors Way to Valley Road	NHPP	Capacity	Mobility and Congestion Relief	Congestion Relief: Major Widening				\$ 8.50	\$ 16.00	\$ 16.00		\$ 40.50
210	NJTPA	Somerset	14356	22	Route 22, Commons Way to Route 287	NHPP	Pavement	Infrastructure Preservation	Road Assets: Highway Resurfacing		\$ 0.25		\$ 0.40		\$ 4.70		\$ 5.35
216	NJTPA	Sussex	10333	206	Route 206, South of Paterson Ave. to South of Pine Rd	NHPP	Pavement	Infrastructure Preservation	Road Assets: Highway Resurfacing	\$ 12.80							\$ 12.80
224	NJTPA	Union	658C	22	Route 22, Bloy Street to Liberty Avenue	NHPP	Bridge	Infrastructure Preservation	Bridge Assets: Bridge Rehab and Replacement			\$ 8.65					\$ 8.65

ID	MPO	County	DBNUM	Route	Project Name	Funding Source	Project Type	Category	Category- Detail	Through 2016	2017	2018	2019	2020	2021	2022-2027	TOTAL
78	NJTPA	Union	95023	1/9	Route 1&9, Interchange at Route I-278	OTHER	Capacity	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements	\$ 2.00	\$ 5.00		\$ 65.00				\$ 72.00
219	NJTPA	Union	12311	1/9	Route 1&9, Avenue C to Sylvan Street	NHPP	Safety	Safety Management	Safety Improvements	\$ 0.30	\$ 0.50	\$ 0.20	\$ 2.70				\$ 3.70
223	NJTPA	Union, Essex	15371	27	Route 27, Dehart Place to Route 21	NHPP	Pavement	Infrastructure Preservation	Road Assets: Highway Resurfacing					\$ 13.26			\$ 13.26
252	NJTPA	Warren	09320	173	Route 173, Bridge over Pohatcong Creek	STATE	Bridge	Infrastructure Preservation	Bridge Assets: Bridge Rehab and Replacement			\$ 3.70					\$ 3.70
127	NJTPA/DVRPC	Mercer, Middlesex	11309	130	Route 130, Westfield Ave. to Main Street	NHPP	Pavement	Infrastructure Preservation	Road Assets: Highway Rehab and Recon	\$ 1.40			\$ 9.58				\$ 10.98
258	SJTPO	Cumberland	11343A	55	Route 55, SB Schooner Landing Road to Sherman Avenue	NHPP	Pavement	Infrastructure Preservation	Road Assets: Highway Rehab and Recon	\$ 8.20							\$ 8.20
263, 268, 267	SJTPO	Salem	04308	40	Route 40, Woodstown Intersection Improvements	NHPP	Safety	Mobility and Congestion Relief	Congestion Relief: Highway Operational Improvements			\$ 2.82					\$ 2.82
		Statewide	X34	rail	Freight Program	STATE					\$ 8.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 150.00	\$ 258.00





APPENDIX G  
STUDY AND DEVELOPMENT  
PROJECTS



<u>ID</u>	<u>DBNUM</u>	<u>Route</u>	<u>Project name</u>	<u>Category</u>	<u>Category-Detail</u>
	08417	US 1	Route 1, Forrestal Road to Aaron Road	Congestion Relief	Congestion Relief: Major Widening
49, 57	94056	NJ 17	Route 17, Central Avenue Bridge, Rochelle Park	Bridge Assets	Bridge Assets: Bridge Rehab and Replacement
49, 57	94057	NJ 17	Route 17, NYS&W Bridge	Bridge Assets	Bridge Assets: Bridge Rehab and Replacement
42, 49, 54, 59, 61, 69	15383	NJ 17	Route 17, Pierrepont Ave to Terrace Ave/Polify Rd (CR 55)	Road Assets	Road Assets: Highway Resurfacing
42, 43, 49, 54	103A2	NJ 17	Route 17, Williams Avenue to I-80	Congestion Relief	Congestion Relief: Major Widening
49, 53, 57, 65, 60	103A1	NJ 17	Route 17, Essex Street to South of Route 4	Congestion Relief	Congestion Relief: Major Widening
209, 210	03318	US 22	Route 22, Sustainable Corridor Long-term Improvements	Congestion Relief	Congestion Relief: Highway Operational Improvements
148	15393	NJ 32	Route 32 EB, Route 130 to NJ Turnpike	Road Assets	Road Assets: Highway Resurfacing
167	15388	NJ 35	Route 35, Woodland Avenue to CR 516 (Cherry Tree Farm Road)	Road Assets	Road Assets: Highway Resurfacing
15	X227A2	NJ 168	Route 168, I-295 Interchange Improvements	Safety Management	Safety Management: Safety Improvements
178	15381	US 202	Route 202, Childs Rd/N Maple Ave (CR 613) to Academy Road	Road Assets	Road Assets: Highway Resurfacing
98	06307	NJ 440	Route 440/1&9, Boulevard through Jersey City	Local System Support	Local System Support: Transportation Enhancements
213	02372	US 202/US 206	Route 202/206 and Route 22 Interchange, North Thompson Street to Commons Way, Operational and Safety Improvements	Congestion Relief	Congestion Relief: Highway Operational Improvements

## FY 2018-2019 STUDY AND DEVELOPMENT PROGRAM

**Route 1, Forrestal Road to Aaron Road**

*DB#: 08417*

*UPC#: 084170*

A project to address the deficiencies along the portion of Route 1 in South Brunswick between MP 13.30 and 22.50. This stretch of the roadway currently accommodates only two travel lanes in each direction. Sections of Route 1 both north and south carry three lanes of travel. The 3 Intersections of Ridge Road, New Road, and Deans Lane/Henderson Road will be advanced into Concept Development under this agreement.

**COUNTY:** Middlesex

**MUNICIPALITY:** Plainsboro Twp, South Brunswick Twp, North Brunswick Twp

**MILEPOSTS:** 13.30 - 22.50

**STRUCTURE NO.:** Various, (See Descript.)

**LEGISLATIVE DISTRICT:** 14, 16, 17

**SPONSOR:** NJDOT

**ASSET MANAGEMENT CATEGORY:** Congestion Relief: Major Widening

MPO	Phase	Year
NJTPA	CD	2018



This project will provide for the proposed bridge replacement, which was identified by Bridge Management System. The overall condition of the bridge is serious, with low appraisal ratings for structural evaluation and the inadequate deck geometry.

**COUNTY:** Bergen

**MUNICIPALITY:** Rochelle Park Twp

**MILEPOSTS:** 10.90

**STRUCTURE NO.:** 0214159

**LEGISLATIVE DISTRICT:** 38

**SPONSOR:** NJDOT

**ASSET MANAGEMENT CATEGORY:** Bridge Assets: Bridge Rehab and Replacement

<b>MPO</b>	<b>Phase</b>	<b>Year</b>
NJTPA	CD	2018

This project will provide for the proposed bridge replacement, which was identified by Bridge Management System. The overall condition of the bridge is serious, with low appraisal ratings for structural elevation and the inadequate deck geometry.

**COUNTY:** Bergen

**MUNICIPALITY:** Rochelle Park Twp

**MILEPOSTS:** 10.90

**STRUCTURE NO.:** 0214157

**LEGISLATIVE DISTRICT:** 38

**SPONSOR:** NJDOT

**ASSET MANAGEMENT CATEGORY:** Bridge Assets: Bridge Rehab and Replacement

<b>MPO</b>	<b>Phase</b>	<b>Year</b>
NJTPA	CD	2018
NJTPA	CD	2019

**Route 17, Pierrepont Ave to Terrace Ave/Polify Rd (CR 55)**

**DB#: 15383**

**UPC#: 153830**

Federal Resurfacing/Rehab project. MP NB 4.54-5.87, 7.5-8.85; SB 4.49-5.4, 7.5-8.48

**COUNTY:** Bergen

**MUNICIPALITY:** Rutherford Boro, East Rutherford Boro, Hasbrouck Heights Boro

**MILEPOSTS:** 4.49-8.85

**STRUCTURE NO.:** N/A

**LEGISLATIVE DISTRICT:** 36, 38

**SPONSOR:** NJDOT

**ASSET MANAGEMENT CATEGORY:** Road Assets: Highway Resurfacing

MPO	Phase	Year
NJTPA	CD	2016

This study will investigate the widening of Rt. 17 to provide six lanes of through traffic. Structural replacements will be included.

The following special federal appropriations have been allocated to this project: 1) FY 2004/Section 115/H17 \$1,000,000, ID# NJ093); 2) FY05/Section 11/H66, \$2,000,000 (ID# NJ 111); 3)FY06 SAFETEA-LU, HPP \$4,400,000 (ID# NJ128); 4) FY06 SAFETEA-LU, HPP \$9,600,000 (ID# NJ159) (available 20% per year); 5)FY 2004 Sec. 115/H17, PL 108-199, \$1,000,000 (ID# NJ094).

**COUNTY:** Bergen

**MUNICIPALITY:** Hasbrouck Heights Boro, Hackensack City

**MILEPOSTS:** 8.3-9.9

**STRUCTURE NO.:** 0221150, 0221151, 0221153

**LEGISLATIVE DISTRICT:** 38, 37

**SPONSOR:** NJDOT

**ASSET MANAGEMENT CATEGORY:** Congestion Relief: Major Widening

MPO	Phase	Year
NJTPA	CD	2018

## FY 2018-2019 STUDY AND DEVELOPMENT PROGRAM

**Route 17, Essex Street to South of Route 4**

*DB#: 103A1*

*UPC#: 088034*

Widening of Rt. 17 to provide six lanes of through traffic, some of which is on structures within the project limits. The project will include structure replacements and at-grade crossings at various intersections.

**COUNTY:** Bergen

**MUNICIPALITY:** Various

**MILEPOSTS:** 10.19 - 12.04

**STRUCTURE NO.:** 0214157, 0214158, 0214159, 1221151

**LEGISLATIVE DISTRICT:** Various

**SPONSOR:** NJDOT

**ASSET MANAGEMENT CATEGORY:** Congestion Relief: Major Widening

MPO	Phase	Year
NJTPA	LCD	2018
NJTPA	LCD	2019

## FY 2018-2019 STUDY AND DEVELOPMENT PROGRAM

### Route 22, Sustainable Corridor Long-term Improvements

*DB#: 03318*

*UPC#: 033180*

This proposed project will investigate long-term improvements between Rt. 202/206 and Chimney Rock Road. Proposed improvements should address the high accident rates as well as eliminate congestion in this area. A full alternatives analysis is to be undertaken by Somerset County in order to fully determine the needs and the most cost-effective solution.

The following special Federal appropriation was allocated to this project. FY 08 Omnibus Appropriations Bill, \$4,000,000, ID# NJ 288, NJ 109, NJ 284, NJ 227, NJ 166, (See also DB 03319)

**COUNTY:** Somerset

**MUNICIPALITY:** Bridgewater Twp

**MILEPOSTS:** 33.88 - 37.14

**STRUCTURE NO.:** N/A

**LEGISLATIVE DISTRICT:** 23

**SPONSOR:** Somerset County

**ASSET MANAGEMENT CATEGORY:** Congestion Relief: Highway Operational Improvements

MPO	Phase	Year
NJTPA	LCD	2018

## FY 2016-2017 STUDY AND DEVELOPMENT PROGRAM

**Route 32 EB, Route 130 to NJ Turnpike**

*DB#: 15393*

*UPC#: 153930*

Federal Resurfacing/Rehab project.

**COUNTY:** Middlesex

**MUNICIPALITY:** South Brunswick Twp

**MILEPOSTS:** 0.0-1.18

**STRUCTURE NO.:** N/A

**LEGISLATIVE DISTRICT:** 16

**SPONSOR:** NJDOT

**ASSET MANAGEMENT CATEGORY:** Road Assets: Highway Resurfacing

MPO	Phase	Year
NJTPA	CD	2016

**Route 35, Woodland Avenue to CR 516 (Cherry Tree Farm Road)**

*DB#: 15388*

*UPC#: 153880*

Federal Resurfacing/Rehab project. MP 22.67-23.6; SB 34.5-39.4

**COUNTY:** Monmouth

**MUNICIPALITY:** Neptune City Boro, Neptune Twp, Middleton Twp

**MILEPOSTS:** 22.67-39.4

**STRUCTURE NO.:** N/A

**LEGISLATIVE DISTRICT:** 11, 13

**SPONSOR:** NJDOT

**ASSET MANAGEMENT CATEGORY:** Road Assets: Highway Resurfacing

MPO	Phase	Year
NJTPA	CD	2016



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**Route 168, I-295 Interchange Improvements**

*DB#: X227A2*  
*UPC#: 048006*

This study will examine alternatives to improve traffic safety and congestion on Rt. 295 and Rt. 168 in the vicinity of the interchange.

**COUNTY:** Camden

**MUNICIPALITY:** Mount Ephraim Boro, Haddon Heights Boro, Bellmawr Boro

**MILEPOSTS:** 7.17 - 7.73

**STRUCTURE NO.:** 0426151

**LEGISLATIVE DISTRICT:** 5

**SPONSOR:** NJDOT

**ASSET MANAGEMENT CATEGORY:** Safety Management: Safety Improvements

MPO	Phase	Year
DVRPC	CD	2018

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**Route 202, Childs Rd/N Maple Ave (CR 613) to Academy Road***DB#: 15381**UPC#: 153810*

Federal Resurfacing/Rehab project.

**COUNTY:** Morris, Somerset

**MUNICIPALITY:** Bernards Twp, Harding Twp, Morristown Twp, Morris Plains Boro

**MILEPOSTS:** 39.0-46.7

**STRUCTURE NO.:** N/A

**LEGISLATIVE DISTRICT:** 21, 27, 25, 26

**SPONSOR:** NJDOT

**ASSET MANAGEMENT CATEGORY:** Road Assets: Highway Resurfacing

MPO	Phase	Year
NJTPA	CD	2016

## FY 2018-2019 STUDY AND DEVELOPMENT PROGRAM

**Route 440/1&9, Boulevard through Jersey City**

*DB#: 06307  
UPC#: 063070*

This project intends to allow Rt. 440/Rt. 1&9 to function as a principal arterial and as a neighborhood main street. The project will improve connections between the local street network and address safety concerns for pedestrians and bicyclists. Part of the plan is the creation of an urban boulevard along Rt. 440/1&9 in order to separate local and express traffic. Light rail expansion and other aesthetic improvements will be included in the study.

The federal SAFETEA-LU legislation provided a special appropriation for concept development designs. A boulevard on Rt. 440 and Rt. 1&9 through Jersey City is planned.

The following special federal appropriations were allocated to this project: FY05 SAFETEA LU/HPP \$1,800,000. Bill lines #350 and #3567, (ID# NJ 130 and ID# NJ 243).

CD Study completion anticipated in 2016, future phases not funded. Jersey City is Lead Agency.

**COUNTY:** Hudson

**MUNICIPALITY:** Jersey City

**MILEPOSTS:** Rt. 440 24.10-26.18 Rt. 1&9T 2.30-3.80

**STRUCTURE NO.:** N/A

**LEGISLATIVE DISTRICT:** 31

**SPONSOR:** Jersey City

**ASSET MANAGEMENT CATEGORY:** Local System Support: Transportation Enhancements

MPO	Phase	Year
NJTPA	LCD	2018

**Route 202/206 and Route 22 Interchange, North Thompson Street to Commons Way, Operational and Safety Improvements**

*DB#: 02372  
UPC#: 023720*

This study will provide operational and safety improvements to the Rt. 202/206/22 Interchange complex from North Thomson St. to Commons Way. The improvements will focus on reducing the congestion and weaving problems that occur in the vicinity of Rt. 202/206 and Rt. 22 interchange.

**COUNTY:** Somerset

**MUNICIPALITY:** Somerville Boro, Raritan Boro

**MILEPOSTS:** Rt. 202/206: 24.14-25.50; Rt. 22: 33.88

**STRUCTURE NO.:** N/A

**LEGISLATIVE DISTRICT:** 16, 23

**SPONSOR:** NJDOT

**ASSET MANAGEMENT CATEGORY:** Congestion Relief: Highway Operational Improvements

MPO	Phase	Year
NJTPA	CD	2018



