

Win-Fred Metropolitan Planning Organization (MPO)

Frederick County ❖ City of Winchester ❖ Town of Stephens City



400 Kendrick Lane, Suite E, Front Royal, Virginia 22630
 Phone: 540-636-8800
 www.winfredmpo.org

Technical Advisory Committee Minutes: February 2, 2021 @ 10 a.m.

Meeting hosted via Zoom due to
 COVID-19

Member Jurisdiction Representatives					
	Frederick County		DRPT		Staff
✓	Patrick Barker		Ciara Williams	✓	Brandon Davis
✓	John Bishop		Todd Horsley	✓	John Madera
	Mike Ruddy		Winchester Airport	✓	Karen Taylor
	Jay Tibbs		Nick Sabo		
	Stephens City		Winchester Transit		Others
	Mike Majher		Renee Wells	✓	Brad Reed, VDOT
	VDOT		Winchester		
✓	Terry Short	✓	Perry Eisenach		
		✓	Tim Youmans		
	Non-Voting		Shawn Hershberger		
	Richard Duran, FHWA		Justin Hall		
	Tony Cho, FTA				
	Rusty Harrington, VA Dept. of Aviation				



**Winchester Frederick County (WinFred) MPO
TECHNICAL ADVISORY COMMITTEE (TAC) Meeting**

Minutes

February 2, 2021 - 10:00 a.m.

1. Administrative Items:

- a) Adoption of agenda – Motion to adopt made by Mr. Short; seconded by Mr. Bishop.
- b) Welcome – Chairman Youmans welcomed everyone to the meeting.
- c) Review and approval of the December 1, 2020 Technical Advisory Committee Meeting Minutes – Motion to approve by Mr. Short; seconded by Mr. Bishop. Motion carried.

2. Public Comment Period – None reported.

3. LRTP Prioritization Preliminary Scores (Attached)– John Madera, WinFred MPO; Brad Reed, VDOT

Mr. Madera and Mr. Reed presented the LRPT prioritization preliminary scores to the committee. Discussion followed the presentation. The committee agreed to delay action and discuss further at the next TAC meeting.

4. Overview of STARS Route 7 Recommendations – Terry Short Jr., VDOT

Mr. Short presented a PowerPoint to the committee. This was for information only; no action requested.

5. System Planning Update – John Madera, Karen Taylor, Terry Short

- **Millwood Avenue/Mall Blvd.; Route 50/522 Realignment Study; STARS: Pleasant Valley; City Bikeshare Study** – Staff gave an update on the above planning projects.

6. Upcoming Meeting Schedule (MPO Meetings are held at the Frederick County Administrative Offices but may be subject to change):

- Project Steering Committee:
- Policy Board: February 17, 2021
- Technical Advisory Committee: March 2, 2021

7. VDOT/DRPT/Staff Updates – None reported.

8. Other Business – None reported

Meeting adjourned at 10:50 a.m.

A meeting quorum shall be established by two (2) members of the CITY, two (2) members of the COUNTY and one (1) member of the STATE

Glossary of Acronyms

CAC- Citizen Advisory Committee- Serves as an advisory committee to the MPO Policy Board to solicit public input and provide citizen perspective on MPO projects. Conducts public hearings and public input sessions on selected projects at the direction of the Policy Board.

CLRP – Constrained Long-Range Plan – A fiscally-constrained list of projects drawn from the Vision Plan element of the LRTP. All CLRP projects must have an estimated cost and a revenue source identified.

CMAQ- Congestion Mitigation and Air Quality Improvement (CMAQ) Program was implemented to support surface transportation projects and other related efforts that contribute air quality improvements and provide congestion relief.

FHWA - Federal Highway Administration - Within the US Department of Transportation, FHWA is responsible for highway issues, including federal laws and regulations related to metropolitan transportation planning.

FTA - Federal Transit Administration- within the US Department of Transportation, FTA is responsible for public transit issues, including federal laws and regulations related to metropolitan transportation planning.

FTA Section 5303 Funds - This program supports transit planning expenses to support cooperative, continuous, and comprehensive planning for making transportation investment decisions in metropolitan planning areas.

FTA Section 5310 - Transportation for Elderly Persons and Persons with Disabilities - The goal of the Section 5310 Program is to help in meeting the special transportation needs of elderly persons and persons with disabilities. The program is designed to supplement other FTA or assistance programs by funding transportation projects for elderly person and persons with disabilities in all areas – urbanized, small urban, and rural.

HSIP - Highway Safety Improvement Program - The overall purpose of this program is to achieve a significant reduction in traffic fatalities and serious injuries on all public roads through the implementation of infrastructure-related highway safety improvements.

LRTP- Long Range Transportation Plan- Developed and approved by the MPO, the LRTP is a regional plan that includes all transportation projects and programs that the MPO realistically anticipates can be implemented over the next 25 years. LRTP's may include a VISION PLAN, which is a list of all projects (a "wish list") but must also include a CLRP. In order to receive federal funding, transportation projects must be included in the LRTP and the TIP.

The FAST Act - On December 4, 2015, President Obama signed the Fixing America's Surface Transportation (FAST) Act (Pub. L. No. 114-94) into law—the first federal law in over a decade to provide long-term funding certainty for surface transportation infrastructure planning and investment. The FAST Act authorizes \$305 billion over fiscal years 2016 through 2020 for highway, highway and motor vehicle safety, public transportation, motor carrier safety, hazardous materials safety, rail, and research, technology, and statistics programs. The FAST Act maintains our focus on safety, keeps intact the established structure of the various highway-related programs we manage, continues efforts to streamline project delivery and, for the first time, provides a dedicated source of federal dollars for freight projects. With the enactment of the FAST Act, states and local governments are now moving forward with critical transportation projects with the confidence that they will have a federal partner over the long term.

NHPP- National Highway Performance Program - The NHPP provides support for the condition and performance of the National Highway System (NHS), for the construction of new facilities on the NHS, and to ensure that investments of Federal-aid funds in highway construction are directed to support progress toward the achievement of performance targets established in a State's asset management plan for the NHS.

STP Funds – Surface Transportation Program funds are Federal Funds disbursed through State DOT's for Surface Transportation projects.

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TIP - Transportation Improvement Program - Approved by the MPO Policy Board, it is a list of projects and programs that will be implemented over the next six years. In order to receive federal funding, transportation projects must be included in the Constrained Long- Range Plan and the TIP. Amendments are major changes to a project included in the CLRP, TIP or STIP that are not Administrative Modifications.

UPWP – Unified Planning Work Program- MPOs must adopt and implement an annual work program and budget known as the Unified Planning Work Program (UPWP). The UPWP identifies all activities to be undertaken by the MPO during the fiscal year which begins July 1st and ends the following June 30th.

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DRAFT Project Prioritization Results WinFred LRTP January 2021			Overall Project Scoring			Congestion Mitigation 15%		Safety 25%		Accessibility 25%					Economic Development 25%				Environment 10%	
						100%		100%		60%	20%	20%	70%	30%	100%					
ID	PROJECT NAME	LOCALITY	PROJECT SCORE Benefit/ Cost per \$10M	Total Benefit Points	Cost Estimate	VHT Reduction Normalized Value	Weighted Factor Value	PSI Locations Normalized Value	Weighted Factor Value	Access to Jobs Normalized Value	Disadvantaged Access to Jobs Normalized Value	Multimodal Choices Normalized Value	Total Factor Value	Weighted Factor Value	Proximity to Job Growth Normalized Value	Freight Impact Normalized Value	Total Factor Value	Weighted Factor Value	Air Quality & Environmental Effect Normalized Value	Weighted Factor Value
107	Legge Boulevard Extension	Winchester	178.4	64.2	\$3,601,500	93	13.9	79.7	19.9	89	88	0	71	17.8	69	8	51	12.6	0	0.0
73	Redbud Road (Route 661) Realignment	Frederick	85.5	24.6	\$2,880,000	7	1.1	41.5	10.4	39	31	0	29	7.3	29	9	23	5.8	0	0.0
117	Inverlee Way Extension	Frederick	80.5	35.5	\$4,408,800	69	10.4	0.0	0.0	80	71	0	62	15.5	53	4	39	9.6	0	0.0
108	Renaissance Drive Extension	Frederick	75.5	30.6	\$4,049,060	12	1.8	0.0	0.0	100	100	0	80	20.0	48	5	35	8.8	0	0.0
25	Route 11 South Widening (Opequon Church Lane and Shawnee Drive)	Frederick	71.8	33.0	\$4,597,859	0	0.0	0.0	0.0	9	11	100	27	6.9	58	80	65	16.1	100	10.0
31	Route 17/50 Widening (I-81N to Prince Frederick Dr)	Frederick	36.0	61.3	\$17,039,400	0	0.0	98.3	24.6	10	10	100	28	7.0	70	100	79	19.8	100	10.0
41	Route 277 West Widening (Double Church Rd to Warrior Dr)	Frederick	25.3	33.6	\$13,304,000	55	8.2	6.9	1.7	11	10	100	28	7.1	28	21	26	6.6	100	10.0
72	Fairfax Street Improvements (Route 11 to vicinity of Squirrel Ln)	Stephens City	22.6	16.6	\$7,360,110	0	0.0	0.0	0.0	0	0	100	20	5.0	5	10	6	1.6	100	10.0
55	Apple Valley Road (Route 652) Widening (Route 11 to Shady Elm Rd)	Frederick	21.4	15.5	\$7,281,600	0	0.0	0.0	0.0	0	0	0	0	0.0	68	49	62	15.5	0	0.0
57	Shawnee Drive (Route 652) Widening (Route 11 to Papermill Rd)	Winchester	17.1	25.1	\$14,644,000	0	0.0	19.2	4.8	0	0	0	0	0.0	90	60	81	20.3	0	0.0
22	Route 11 North 4-Lane Widening (Snowden Bridge Blvd to Old Charles Town Rd)	Frederick	16.7	47.1	\$28,260,000	17	2.5	100.0	25.0	6	7	0	5	1.3	70	80	73	18.3	0	0.0
4.2	S. Pleasant Valley Road+ Bataille Drive Extensions ; Bataille Drive 3-Lane Widening	Winchester	16.4	55.2	\$33,653,725	100	15.0	19.2	4.8	8	10	100	27	6.7	100	17	75	18.8	100	10.0
18	Route 11 South Widening (City Limits to Route 37)	Frederick	16.2	44.2	\$27,306,000	29	4.3	0.0	0.0	18	22	100	35	8.8	86	82	85	21.2	100	10.0
27	Hopewell Rd & Brucetown Rd (Route 672) Realignment	Frederick	11.8	4.6	\$3,894,300	0	0.0	2.3	0.6	7	8	0	6	1.5	7	16	10	2.5	0	0.0
41.1	Route 277 West Widening (Warrior Dr to White Oak Dr)	Frederick	11.2	22.4	\$19,956,000	2	0.4	0.0	0.0	6	6	100	25	6.3	24	21	23	5.8	100	10.0
45	Cedar Creek Grade (Route 622) Widening (City Limits to Route 37)	Frederick	9.5	19.8	\$20,858,750	48	7.1	0.0	0.0	18	23	0	16	3.9	43	15	35	8.7	0	0.0

DRAFT

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Technical Advisory Committee Minutes: April 6, 2021 @ 10 a.m.

**Meeting hosted via Zoom due to
 COVID-19**

Member Jurisdiction Representatives					
	Frederick County		DRPT		Staff
✓	Patrick Barker	✓	Ciara Williams	✓	Brandon Davis
✓	John Bishop		Todd Horsley	✓	John Madera
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	Tony Cho, FTA				
	Rusty Harrington, VA Dept. of Aviation				



**Winchester Frederick County (WinFred) MPO
TECHNICAL ADVISORY COMMITTEE (TAC)**

Meeting Minutes

April 6, 2021 - 10:00 a.m.

1. Administrative Items:

- a) Adoption of agenda – Motion to adopt agenda made by Mr. Tibbs; seconded by Mr. Short. Motion carried.
- b) Welcome – Chairman Youmans welcomed everyone to the meeting.
- c) Review and approval of the February 2, 2021 Technical Advisory Committee Meeting Minutes – Motion to approve made by Mr. Short; seconded by Mr. Eisenach. Motion carried.

2. Public Comment Period – None reported.

3. Draft FY22 Unified Planning Work Program (UPWP) - Karen Taylor & John Madera, NSVRC

Ms. Taylor and Mr. Madera presented the Draft FY22 UPWP to the Committee. A brief discussion ensued following the presentation. Mr. Davis, Mr. Short and Chairman Youmans thanked staff for their hard work and collaboration on the UPWP. Following discussion, a motion was made by Mr. Bishop to forward a recommendation to the Policy Board to forward the document to the 20 public comment period and pending public comments received, final approval of the FY22 UPWP; motion seconded by Mr. Eisenach. Motion carried.

4. CLRP Prioritization and the 2045 Metropolitan Transportation Plan (MTP) Scope of Work - John Madera

Mr. Madera presented a PowerPoint on CLRP prioritization and the 2045 MTP SOW. PPT attached to the minutes.

5. System Planning Update – John Madera, Karen Taylor, Terry Short

Staff gave an update on the following projects:

- **Millwood Avenue/Mall Blvd.; Route 50/522 Realignment Study; STARS: Pleasant Valley; City Bikeshare Study**

6. Upcoming Meeting Schedule (MPO Meetings are held at the Frederick County Administrative Offices but may be subject to change):

- Project Steering Committee:
- Policy Board: April 21, 2021
- Technical Advisory Committee: May 4, 2021

7. VDOT/DRPT/Staff Updates – Mr. Short gave an update on VTRANS and I-81. Ms. Williams stated that the DRPT Draft STIP will be released this month.

8. Other Business – None reported.

Meeting adjourned at 10:45 a.m.

Definition of Acronyms on next page

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CLRP Prioritization and the 2045 Metropolitan Transportation Plan

Technical Advisory Committee
April 6, 2021



Tasks

- Develop methodology (VDOT) – COMPLETED
- Update Vision Plan (MPO) -- COMPLETED
- Screen projects for Vtrans needs (VDOT) -- COMPLETED
- Estimate project costs (VDOT) -- DRAFT
- Model, score, and rank projects a la SMART SCALE -- DRAFT
- **Prioritize projects (MPO)**
- **Draft new CLRP (MPO)**

Task: Score projects

**Congestion Mitigation
(15%)**

Reduction in PM peak vehicle hours traveled (VHT) using WinFred MPO travel demand model, 2015 conditions (100%)

**Safety
(25%)**

Rank-weighted sum of segments and intersections identified in VDOT's Potential for Safety Improvement (PSI) list (100%)

Task: Score projects

Accessibility (25%)	Increase in average job accessibility per resident (60%)
	Increase in average job accessibility per resident for disadvantaged populations (20%)
	Increase in access to multimodal travel choices (20%)

Task: Score projects

**Economic Development
(25%)**

**Decay weighted job growth
adjacent to project, 2015-2040 by
TAZ (70%)**

**Intermodal access and
efficiency/tons
of goods impacted (30%)**

**Environmental Quality
(10%)**

**Potential to improve air quality/
environmental effect
(100%)**

Prioritization Takeaways

- As in Smart Scale, **project cost plays a major role**
- Lower cost **new location projects excelled**, driven in part by Congestion and Accessibility measures
- Using **existing conditions for Congestion measure** likely impacted scores for emerging corridors
- **Legge Blvd** – Congestion and Safety scores a surprise; stays on top even if you zero out those measures

Discussion Points

- **How do the results compare to your expectations?**
- **Environment Measure** – all or nothing scoring solely dependent on presence of bike-ped element
- **Travel demand model** –
 - Not well suited to measuring effect of small area projects & projects effecting local roadways
 - Unable to model certain project types
(Shawnee Dr widening, Fairfax St retrofit, bike-ped)

Decision

- Several recently-studied projects were submitted and scored through Round 4 of SMART SCALE.
- The Policy Board may
 - include previously studied projects in the CLRP first,
 - consider them using SMART SCALE Round 4 scores, or
 - ask that these projects be re-scored and ranked against the other vision plan projects

SMART SCALE Round 4 Submissions

Title	Project Benefit Score	Project Total Cost	Score Divided by Total Cost
Pleasant Valley Road Access Management near Spring Street	0.19	\$ 202,978	9.27
Pleasant Valley Road Access Management at Parkview	0.46	\$ 829,668	5.56
Exit 317 NB Ramp Realignment to Redbud Rd Location	2.00	\$ 6,943,514	2.88
Route 11/Old Charles Town Roundabout	1.81	\$ 6,357,196	2.85
Route 7 STARS Access Management Projects	0.24	\$ 999,624	2.45
Route 11 - Shawnee Improvement	0.54	\$ 4,597,859	1.18
Pleasant Valley Road - Featherbed Lane Improvements	0.55	\$ 5,448,627	1.01
Exit 317 Interchange Improvement Project	3.94	\$40,394,121	0.98

Recommended for funding

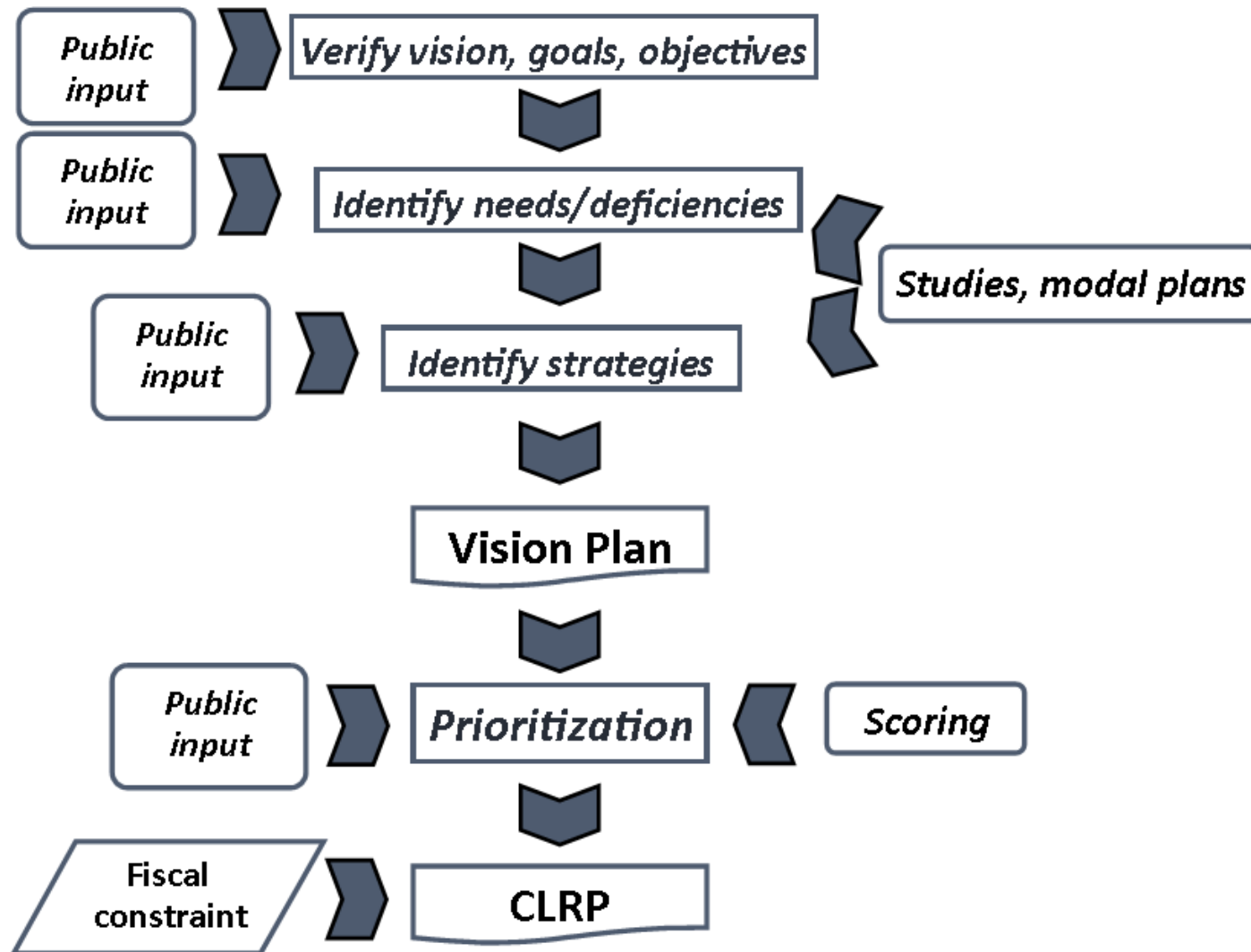
NEXT STEPS

- **Review scoring – PSC**
- Revise, finalize scores – MPO/VDOT staff
- Accept final scores – TAC
- Provide financial projections – VDOT (COMPLETED)
- Accept financial projections – TAC
- Solicit public input – MPO staff
- Revise CLRP – TAC, Policy Board
- Post revised CLRP for public comment – Staff
- Adopt CLRP – Policy Board

Metropolitan Transportation Plan 2045

- **Due May 2022**
- **Document to be prepared by staff**
- **Public involvement to be consultant-led**
 - Website
 - Surveys
 - Stakeholder focus groups

MTP





Questions?



Glossary of Acronyms

DRAFT

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Technical Advisory Committee Minutes: October 5, 2021 @ 10 a.m.

**Rouss City Hall, 15 N. Cameron Street, Winchester, VA
Exhibit Hall, 4th Floor**

Member Jurisdiction Representatives					
	Frederick County		DRPT		Staff
✓	Patrick Barker		Ciara Williams	✓	Brandon Davis
✓	John Bishop		Todd Horsley	✓	John Madera
	Vacant		Winchester Airport		Karen Taylor
	Jay Tibbs	✓	Nick Sabo	✓	
	Stephens City		Winchester Transit		Others
✓	Mike Majher	✓	Renee Wells		Adam Campbell, VDOT
	VDOT		Winchester		
✓	Brad Reed	✓	Perry Eisenach	✓	Emily Stock, DRPT (remote)
		✓	Tim Youmans	✓	
	Non-Voting		Shawn Hershberger		
	Richard Duran, FHWA	✓	Justin Hall		
	Tony Cho, FTA				
	Rusty Harrington, VA Dept. of Aviation				



Meeting Minutes
October 5, 2021 - 10:00 a.m.

1. Administrative Items:

- a) Adoption of agenda – Motion to adopt agenda made, seconded. Motion carried.
- b) Welcome – Chairman Youmans welcomed everyone to the meeting.
- c) Review and approval of the April 6, 2021 Technical Advisory Committee Meeting Minutes – Motion to approve made by Mr. Reed; seconded by Mr. Bishop. Motion carried.

2. Public Comment Period – None reported.

3. Presentation: Virginia Statewide Rail Plan – Emily Stock, DRPT (via Zoom)

After providing an overview of the Virginia Statewide Rail Plan (VSRP), Ms. Stock focused her commentary on statewide freight movements, as well as freight in the Shenandoah Valley.

- The Department of Rail and Public Transportation (DRPT) works with the Office of Intermodal Planning and Investment (OIPI) to ensure alignment between the SRP and VTrans.
- Work on the VSRP began in the spring of 2021 with final plan adoption expected in the spring of 2022.
- Recent changes to inform rail planning policies in Virginia include right of way acquisitions and expansions of passenger rail service in strategic locations around the Commonwealth.
- No exploration of potential passenger rail in the Northern Shenandoah Valley has been considered in the near term.
- Climate change policy, coordination policy, corridor development policy, economic development policy, equipment policy, equity policy, multimodal access policy, passenger rail station policy, and passenger service policy are the identified areas of focus requiring policy development or updates.
- Winchester is identified in the plan as an area that may be suitable for increased freight rail traffic due to its large network of private sector distribution facilities.
- Part of the planning process evaluates the movement of major commodities in all directions.
- From 2012 to 2017, using available data, DRPT has determined that coal remains the commodity accounting for most tonnage and that farm products took the place of food or kindred products in the top five products in all directions.

4. System Planning Update – John Madera, Adam Campbell

Staff gave an update on the following projects:

- Route 50/522 Realignment Study; Valley Mill Road Realignment Study; Pleasant Valley at Wingate; STARS: Pleasant Valley; City Bikeshare Study; 2045 MTP; VDOT Project Pipeline

5. Upcoming Meeting Schedule (MPO Meetings are held at the Rouss City Hall, Exhibit Hall, 4th Floor, but may be subject to change):

- Project Steering Committee: TBD
- Policy Board: October 20, 2021

- Technical Advisory Committee: November meeting **canceled** due to state holiday.

6. VDOT/DRPT/Staff Updates

- Matt Smith – Rt 277 ahead of schedule. Opequon bridge traffic switch happening today. Rt. 50 bridge over 81, emergency repairs complete.
- Brad Reed – Winchester 81 widening in traffic study phase, construction still beyond the 6-year plan window. Project pipeline study underway – 5 locations in the district, 4 of which are in the MPO area.
- Adam Campbell – Rt. 7 STARS study final report submitted and available on the VDOT study website. Policy board will receive a presentation at the October meeting.
- Renee Wells – Hoping to expand transit to Lord Fairfax. WinTran system back to pre-covid numbers.
- Nick Sabo - FAA grant for 3.5M to build a new aircraft parking apron and begin evaluating a taxi-way move.

7. Other Business – None reported.

Meeting adjourned at 11:30 a.m.

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FTA Section 5303 Funds - This program supports transit planning expenses to support cooperative, continuous, and comprehensive planning for making transportation investment decisions in metropolitan planning areas.

FTA Section 5310 - Transportation for Elderly Persons and Persons with Disabilities - The goal of the Section 5310 Program is to help in meeting the special transportation needs of elderly persons and persons with disabilities. The program is designed to supplement other FTA or assistance programs by funding transportation projects for elderly person and persons with disabilities in all areas – urbanized, small urban, and rural.

HSIP - Highway Safety Improvement Program - The overall purpose of this program is to achieve a significant reduction in traffic fatalities and serious injuries on all public roads through the implementation of infrastructure-related highway safety improvements.

LRTP- Long Range Transportation Plan- Also called the Metropolitan Transportation Plan (MTP). Developed and approved by the MPO, the LRTP is a regional plan that includes all transportation projects and programs that the MPO realistically anticipates can be implemented over the next 25 years. LRTP’s may include a VISION PLAN, which is a list of all projects (a “wish list”) but must also include a CLRP. In order to receive federal funding, transportation projects must be included in the LRTP and the TIP.

MTP – Metropolitan Transportation Plan – see **LRTP**.

NHPP- National Highway Performance Program - The NHPP provides support for the condition and performance of the National Highway System (NHS), for the construction of new facilities on the NHS, and to ensure that investments of Federal-aid funds in highway construction are directed to support progress toward the achievement of performance targets established in a State's asset management plan for the NHS.

STP Funds – Surface Transportation Program funds are Federal Funds disbursed through State DOT’s for Surface Transportation projects.

TAC- Technical Advisory Committee- Serves in an advisory capacity to the Policy Board of the MPO. The TAC works with MPO staff to formulate the UPWP, the LRTP, and provides technical review and assistance on numerous MPO projects undertaken as called out in the UPWP.

TIP - Transportation Improvement Program - Approved by the MPO Policy Board, it is a list of projects and programs that will be implemented over the next six years. In order to receive federal funding, transportation projects must be included in the Constrained Long- Range Plan and the TIP. Amendments are major changes to a project included in the CLRP, TIP or STIP that are not Administrative Modifications.

UPWP – Unified Planning Work Program- MPOs must adopt and implement an annual work program and budget known as the Unified Planning Work Program (UPWP). The UPWP identifies all activities to be undertaken by the MPO during the fiscal year which begins July 1st and ends the following June 30th.

VDOT - Virginia Department of Transportation - Agency responsible for statewide transportation facility planning, construction, and maintenance. VDOT is separate from the Virginia Department of Rail and Public Transportation (VDRPT).

VIRGINIA

STATEWIDE RAIL PLAN

2022



WinFred MPO: TAC Meeting

Emily Stock, Rail Chief

Virginia Department of Rail and Public Transportation

Agenda

- 1** **Rail Plan Overview**
- 2** **Statewide Commodity Movements**
- 3** **Northern Shenandoah Valley – Industrial Outlook**
- 4** **Northern Shenandoah Valley – Freight Rail and Truck Trends**

1

Rail Plan Overview

Plan Overview

- Aligns with goals/objectives of VTrans.
- Virginia's last SRP was adopted by the CTB in 2018.
- The Federal Railroad Administration (FRA) requires each state to update its SRP every four years.
- Necessary to apply and receive federal rail funding for passenger and freight projects.
- Includes 4-year and 20-year horizons.
- Data points/metrics can be compared plan to plan and state to state.
- Requires close coordination with VPRA.



Timeline

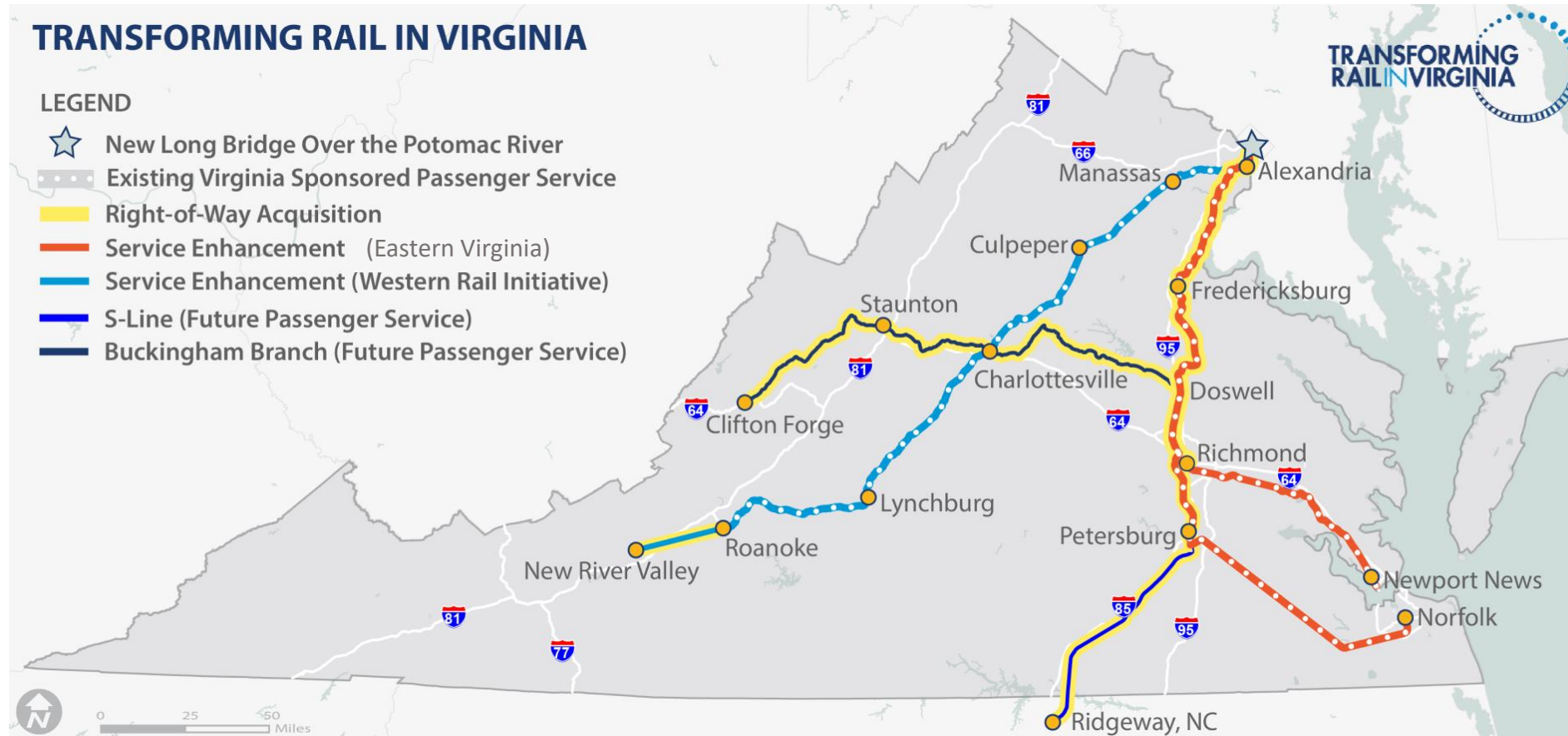
Initial Scoping/Visioning Meetings: May 2021

Draft Projects Outreach: Fall 2021

Project Refinement and Service Development Plan Completion: Winter 2021

Final Plan Adoption: Spring 2022

Recent Changes to Inform Rail Planning Policies



DRPT and VPRA

	RAIL	
	FREIGHT	PASSENGER
Funding Administration	DRPT	TO VPRA
Corridor Planning	DRPT	TO VPRA
Statewide Planning	DRPT	
Programming/SYIP	DRPT	TO VPRA
Policy Setting	DRPT	TO VPRA

Policies to Develop/Update

Climate Change Policy

Coordination Policy

Corridor Development Policy

Economic Development

Equipment Policy

Equity Policy

Multimodal Access Policy

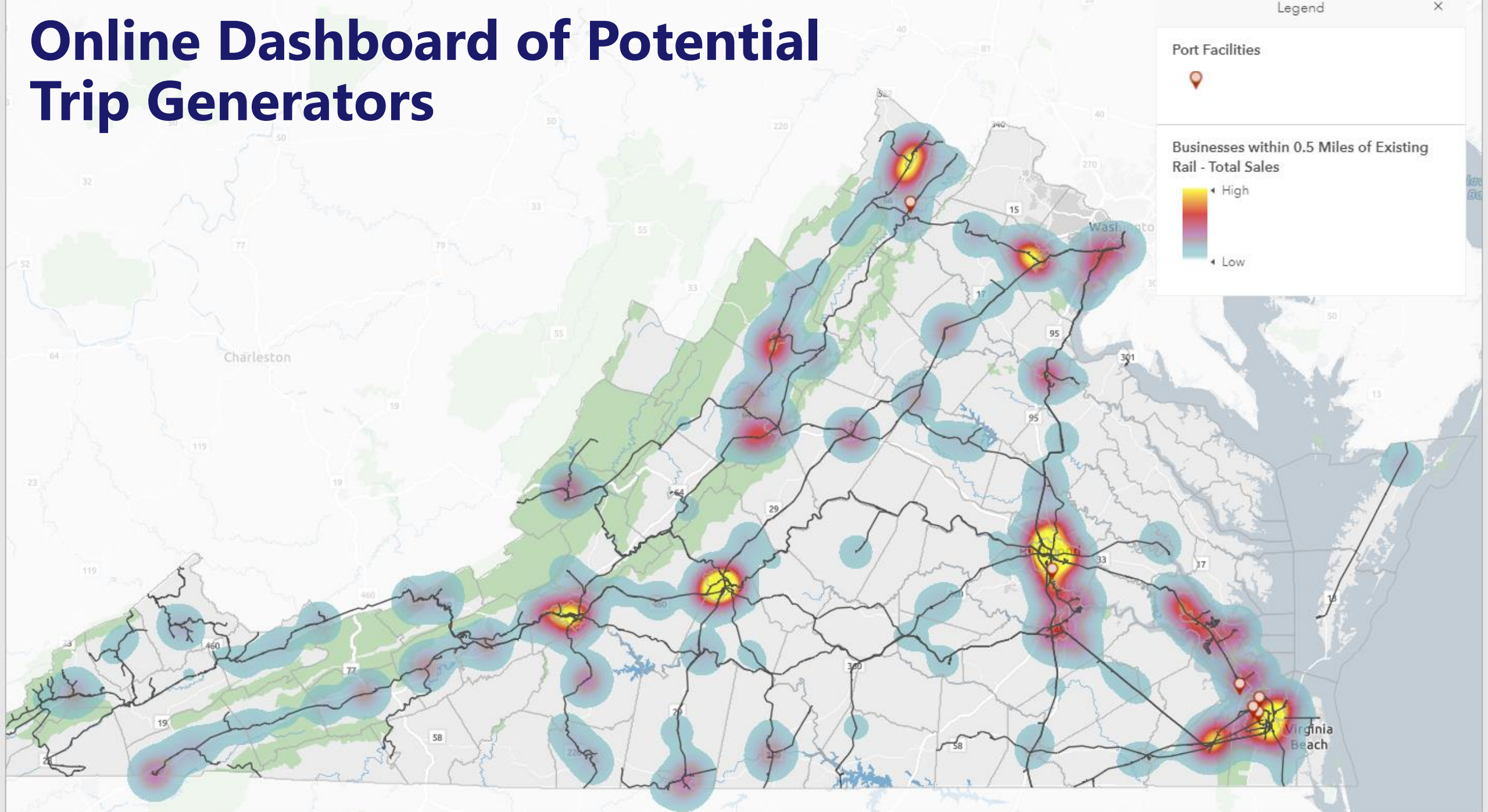
Passenger Rail Station Policy

Passenger Service Policy

2

Statewide Commodity Movements












Online Dashboard of Potential Trip Generators



Average Trip Length by Commodity – Rail Movements

Tonnage Rail Modal Share by Distance and Commodity Group for Shipments Originating in Virginia, 2018

This information helps us find potential origins/destinations, by commodity, where rail transportation can grow in the future.

COMMODITY	0 - 99 MILES	100 - 249 MILES	250 - 499 MILES	500-999 MILES	1000 + MILES
 Coal	0%	95%	58%	75%	100%
 Miscellaneous Mixed Shipments	0%	0%	1%	1%	3%
 Chemicals or Allied Products	0%	5%	8%	25%	40%
 Nonmetallic Minerals	0%	9%	12%	5%	20%
 Pulp, Paper or Allied Products	3%	40%	8%	18%	50%
 Petroleum or Coal Products	0%	3%	2%	35%	3%
 Primary Metal Products	0%	5%	1%	13%	25%
 Clay, Concrete, Glass or Stone	3%	14%	17%	67%	2%
 Food or Kindred Products	1%	2%	1%	0%	7%
 Logs, Lumber, Wood Products	0%	0%	1%	2%	6%
 Other	1%	1%	3%	8%	8%

Source: HDR Analysis of FAF4 data.

Rail Freight Movement by Direction

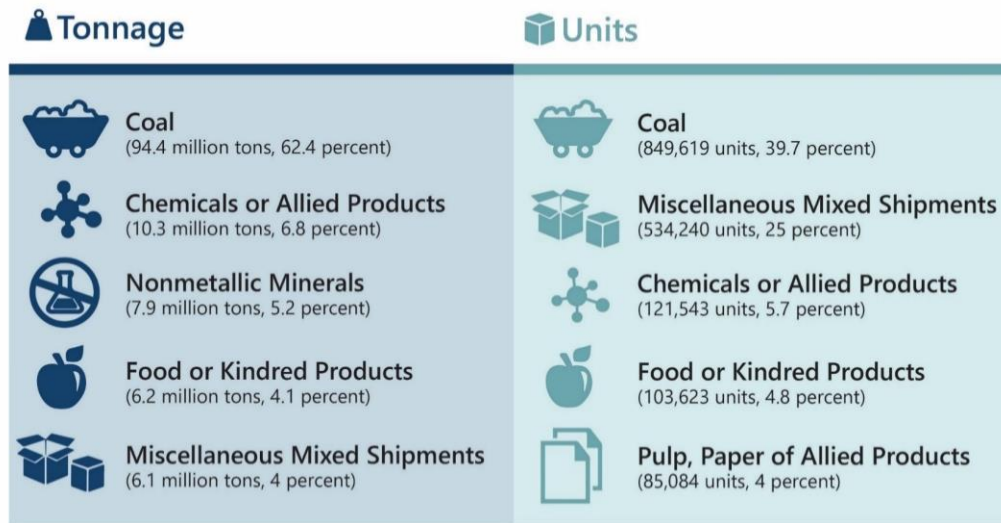
Direction	2012				2017				Percent Change	CAGR Change
	Units (Carloads)	Tons	Tonnage Share of Total	Tons/Unit Utilization	Units (Carloads)	Tons	Tonnage Share of Total	Tons/Unit Utilization		
Outbound	327,996	18,256,425	12%	55.7	368,190	13,290,460	10%	36.1	-27%	-6%
Inbound	792,590	61,956,141	41%	78.2	699,250	47,648,932	36%	68.1	-23%	-5%
Intrastate	158,195	14,828,445	10%	93.7	159,373	14,794,767	11%	92.8	0%	0%
Through	860,722	56,291,706	37%	65.4	973,836	55,947,184	42%	57.5	-1%	0%
Total	2,139,503	151,332,717	100%	70.7	2,200,649	131,681,343	100%	59.8	-13%	-3%

Total tonnage moved by rail in Virginia has decreased by **13%** between **2012** and **2017** (19.6 million tons).

Sources: 2012 and 2017 Transearch Data
 Note: CAGR = Compound Annual Growth Rate

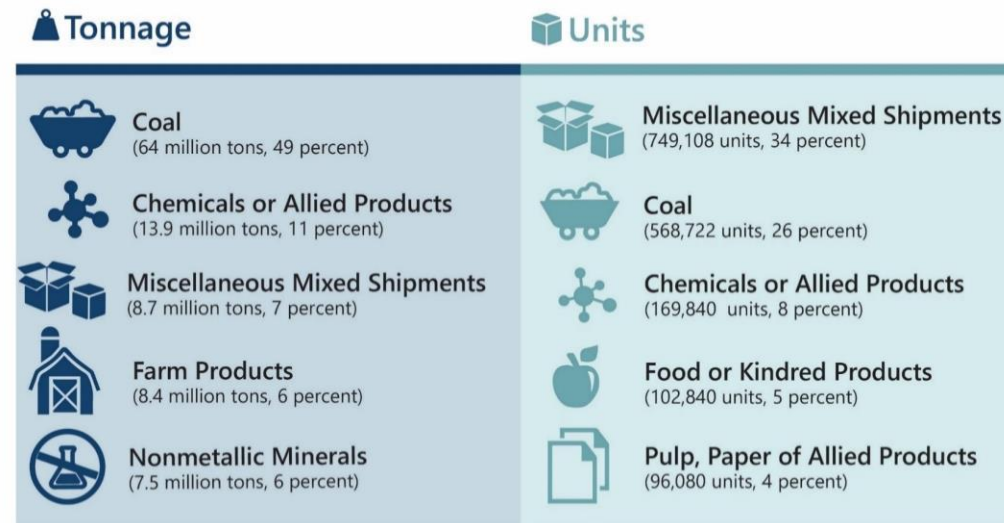
Major Commodities in All Directions

Major commodity movements 2012



Source: 2012 Virginia Statewide Rail Plan Appendix I: Commodity Movements

Major commodity movements 2017



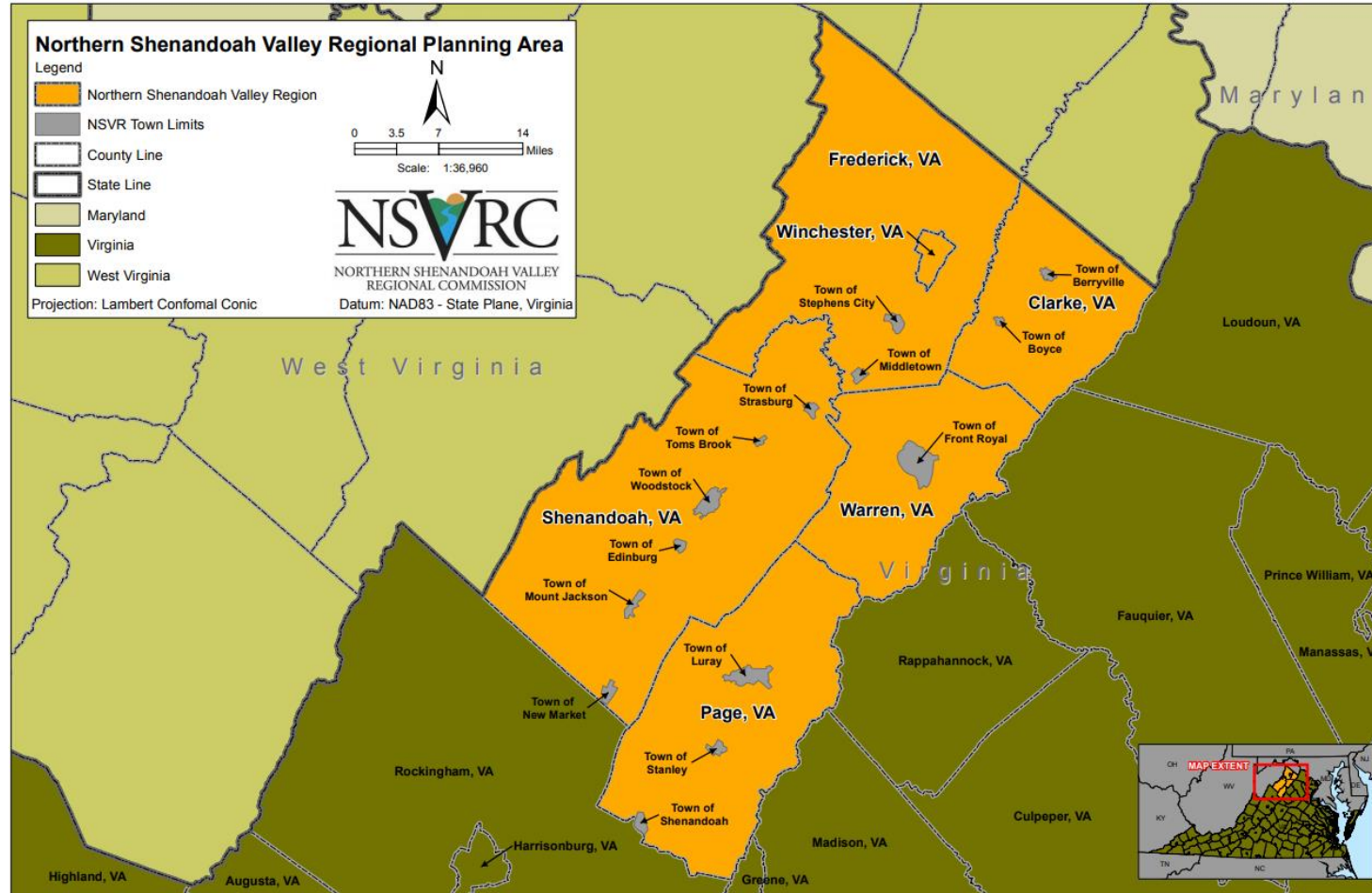
Source: 2017 Transearch Data

Farm products took place of food or kindred products in the top 5 products in all directions.

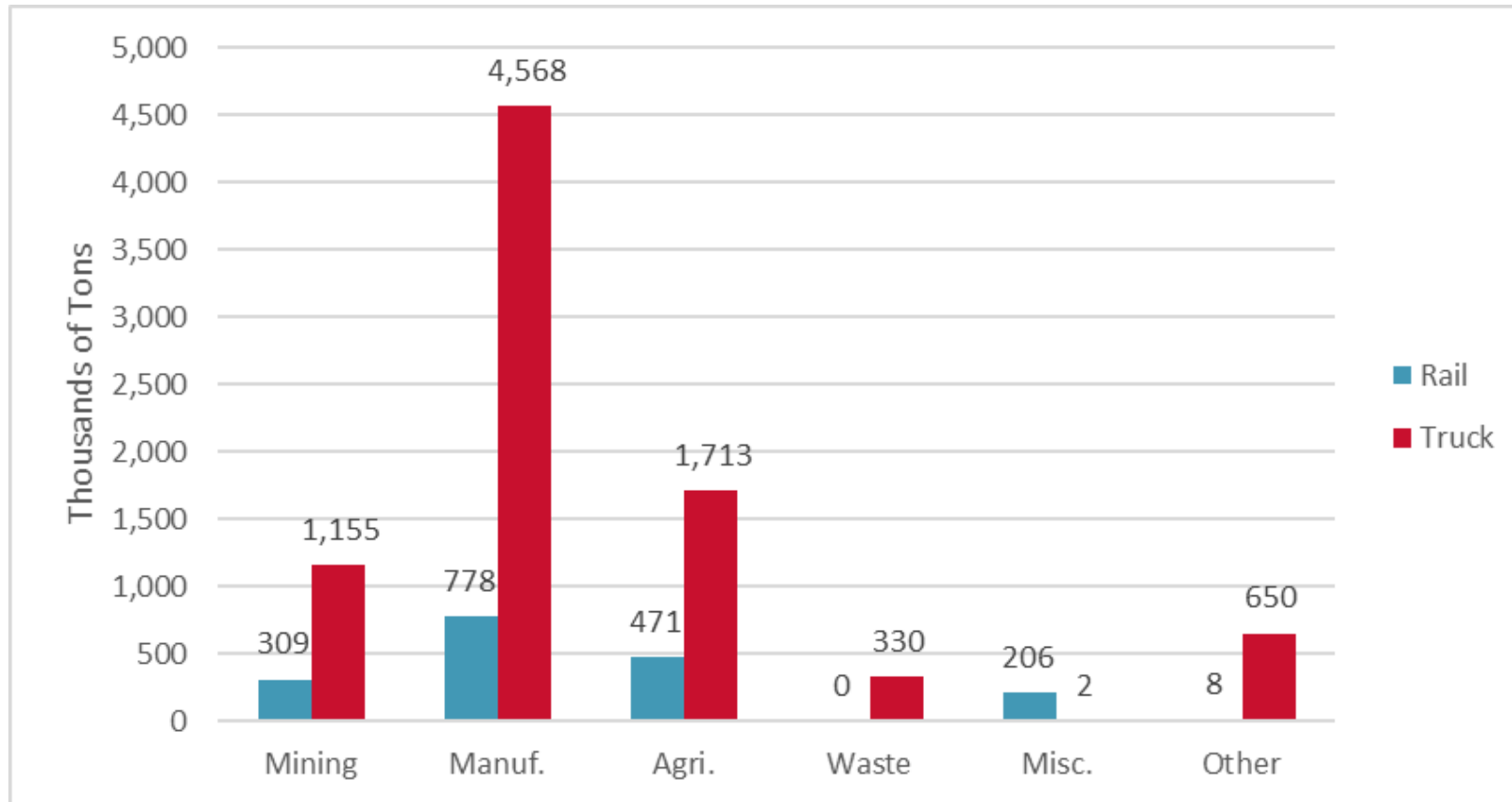
3

Northern Shenandoah Valley - Industrial Outlook

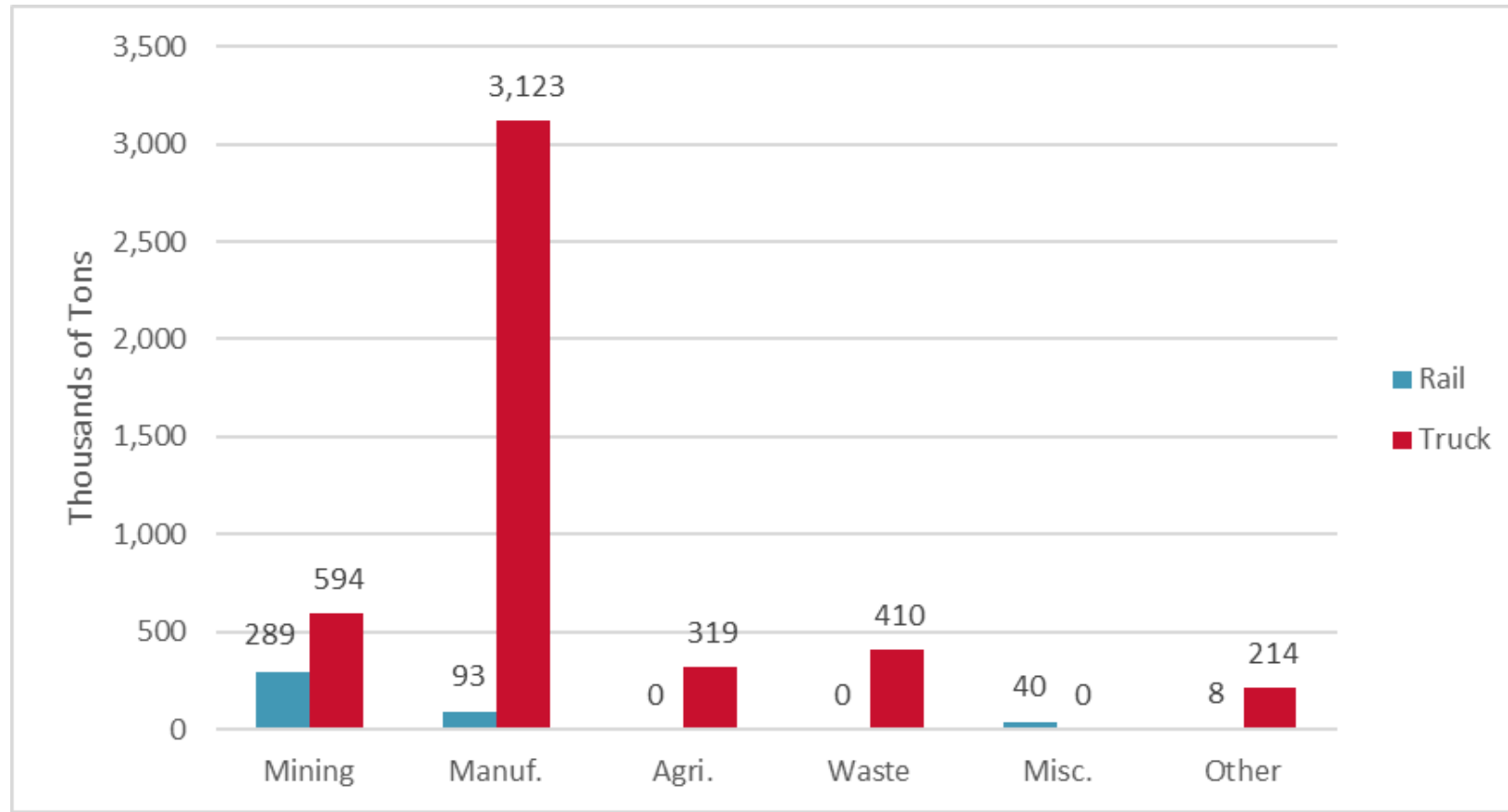
Northern Shenandoah Valley Region



Industry Tonnage Breakdown – All Directions



Industry Tonnage Breakdown – Outbound Only



4

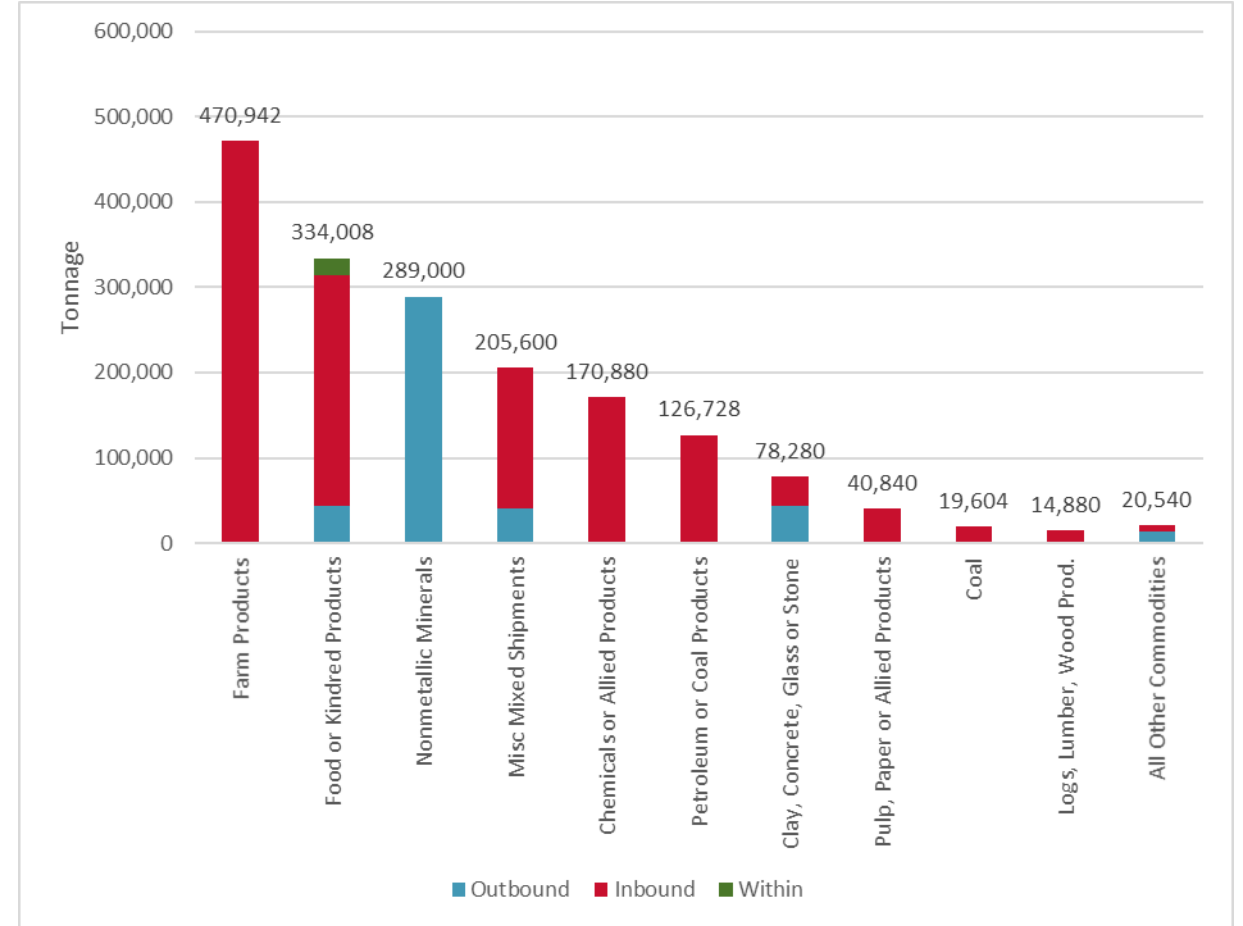
Northern Shenandoah Valley – Freight Rail and Truck Trends

3.a

Freight Rail and Truck Trends Overview

Rail - Top Commodities by Direction and Tonnage in 2017

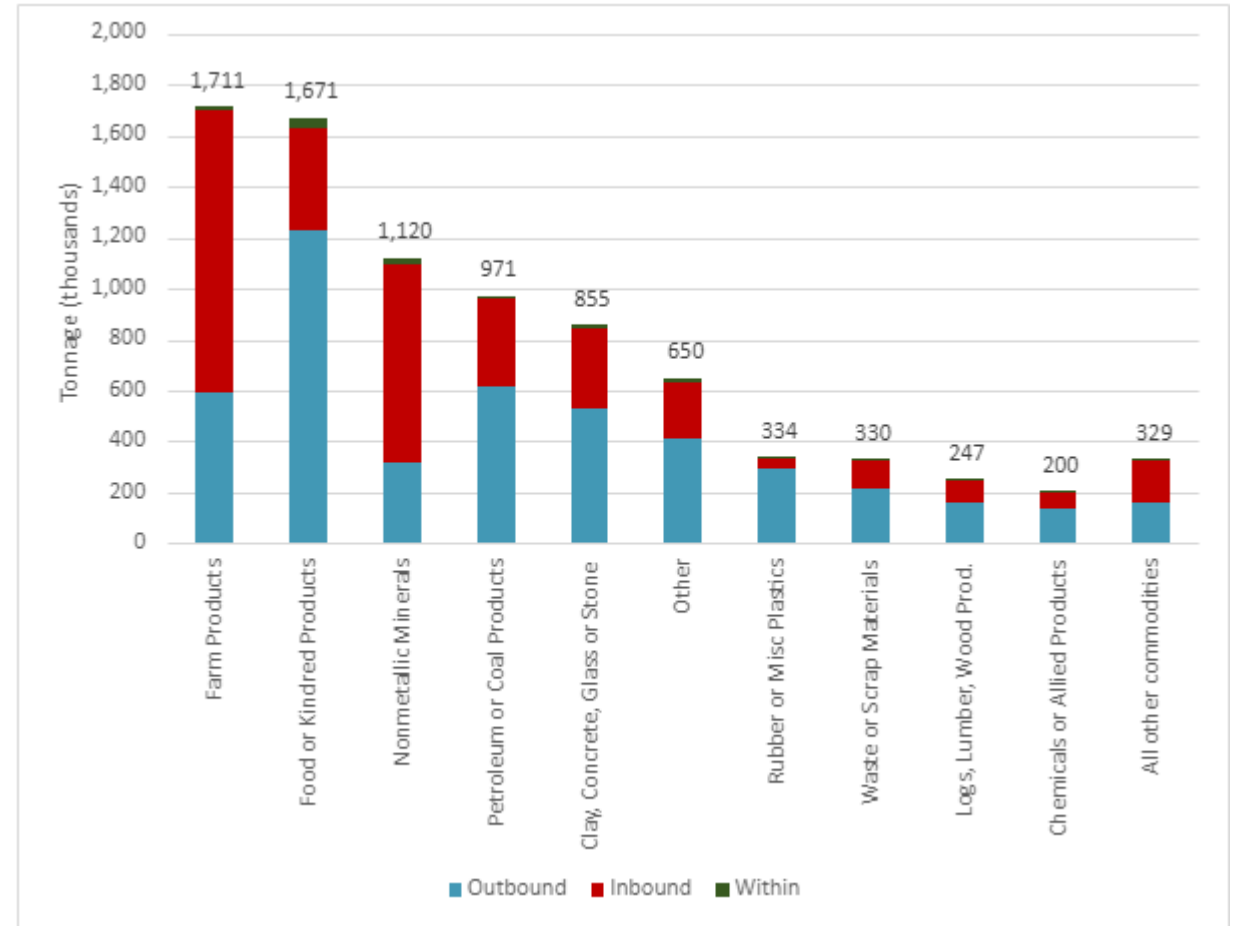
Commodity	Outbound	Inbound	Within	Total	Percent (of Total)
Farm Products	0	470,942	0	470,942	27%
Food or Kindred Products	43,600	271,128	19,280	334,008	19%
Nonmetallic Minerals	289,000	0	0	289,000	16%
Misc. Mixed Shipments	40,000	165,600	0	205,600	12%
Chemicals or Allied Products	1,200	169,680	0	170,880	10%
Petroleum or Coal Products	0	126,728	0	126,728	7%
Clay, Concrete, Glass or Stone	43,320	34,960	0	78,280	4%
Pulp, Paper or Allied Products	0	40,840	0	40,840	2%
Coal	0	19,604	0	19,604	1%
Logs, Lumber, Wood Prod.	0	14,880	0	14,880	1%
All Other Commodities	13,080	7,460	0	20,540	1%
Total	430,200	1,321,822	19,280	1,771,302	100%



Sources: 2017 Transearch Data

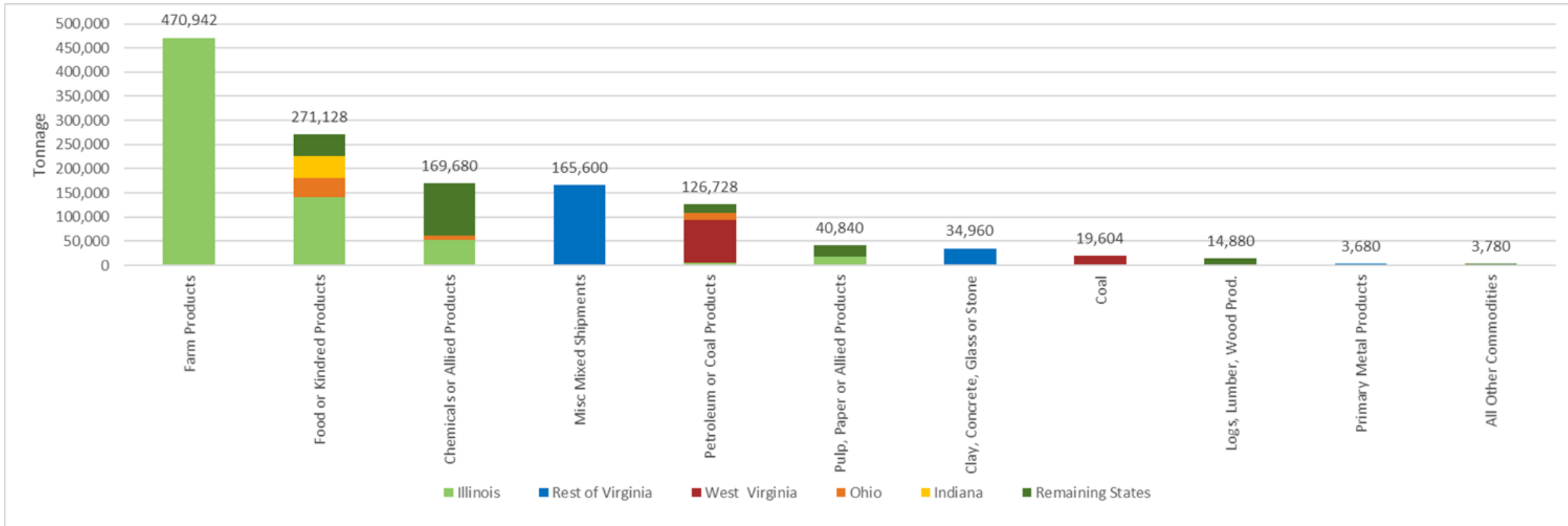
Truck - Top Commodities by Direction and Tonnage in 2017

Commodity	Outbound	Inbound	Within	Total	Percent (of Total)
Farm Products	593,603	1,102,773	14,728	1,711,105	20%
Food or Kindred Products	1,225,874	405,688	39,196	1,670,757	20%
Nonmetallic Minerals	318,866	778,301	22,439	1,119,606	13%
Petroleum or Coal Products	613,579	346,274	11,266	971,119	12%
Clay, Concrete, Glass or Stone	529,380	313,241	12,784	855,406	10%
Other	409,978	224,131	15,853	649,962	8%
Rubber or Misc. Plastics	290,842	39,859	3,085	333,786	4%
Waste or Scrap Materials	213,520	112,125	4,032	329,677	4%
Logs, Lumber, Wood Prod.	162,249	81,856	3,380	247,484	3%
Chemicals or Allied Products	139,492	58,938	1,566	199,996	2%
All other commodities	161,783	164,878	2,223	328,884	4%
Total	4,659,167	3,628,063	130,552	8,417,782	100%



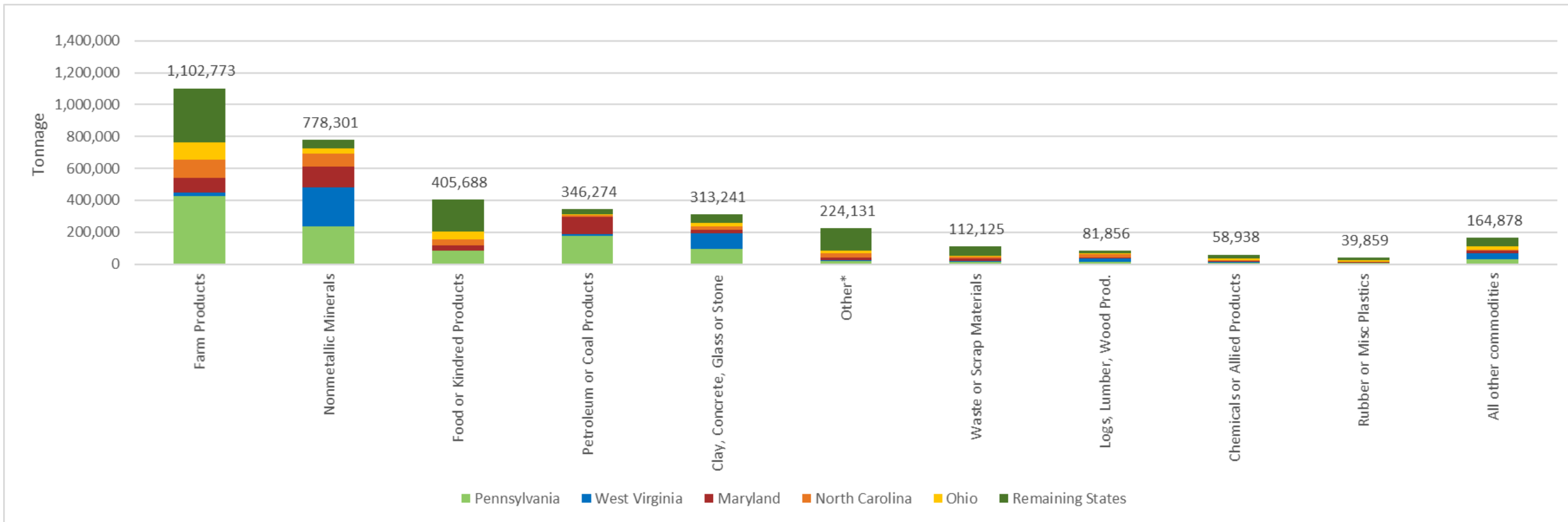
Sources: 2017 Transearch Data

Rail - Inbound Tonnage for Origin States



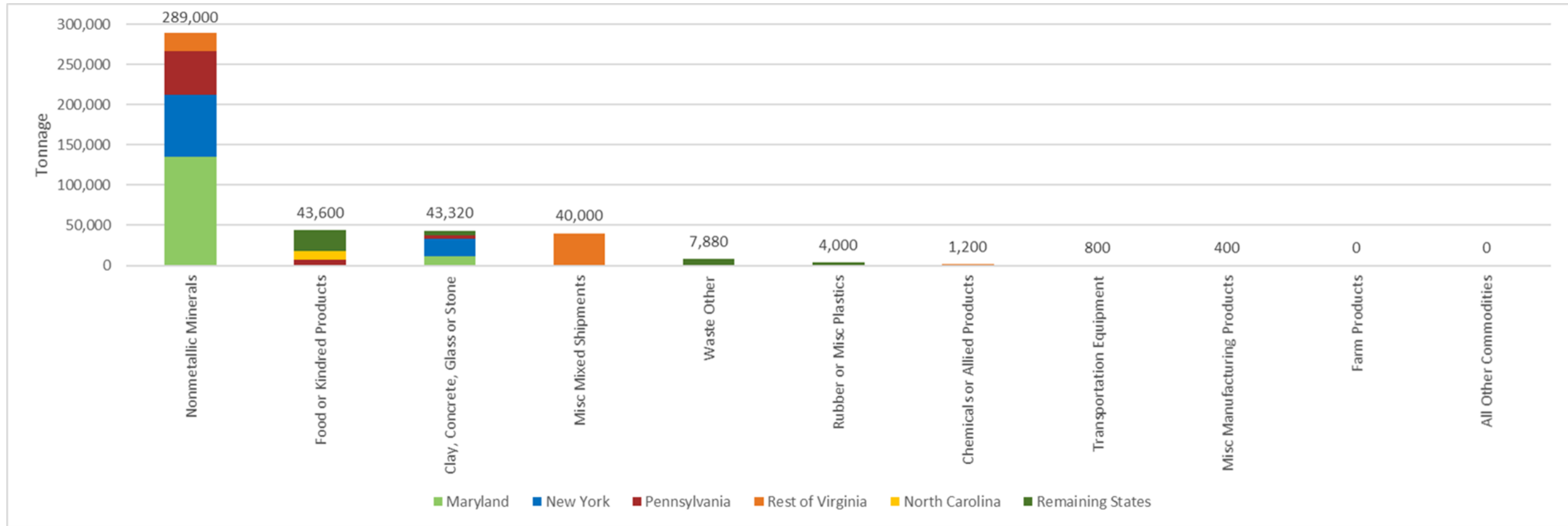
Sources: 2017 Transearch Data

Truck - Inbound Tonnage for Origin States



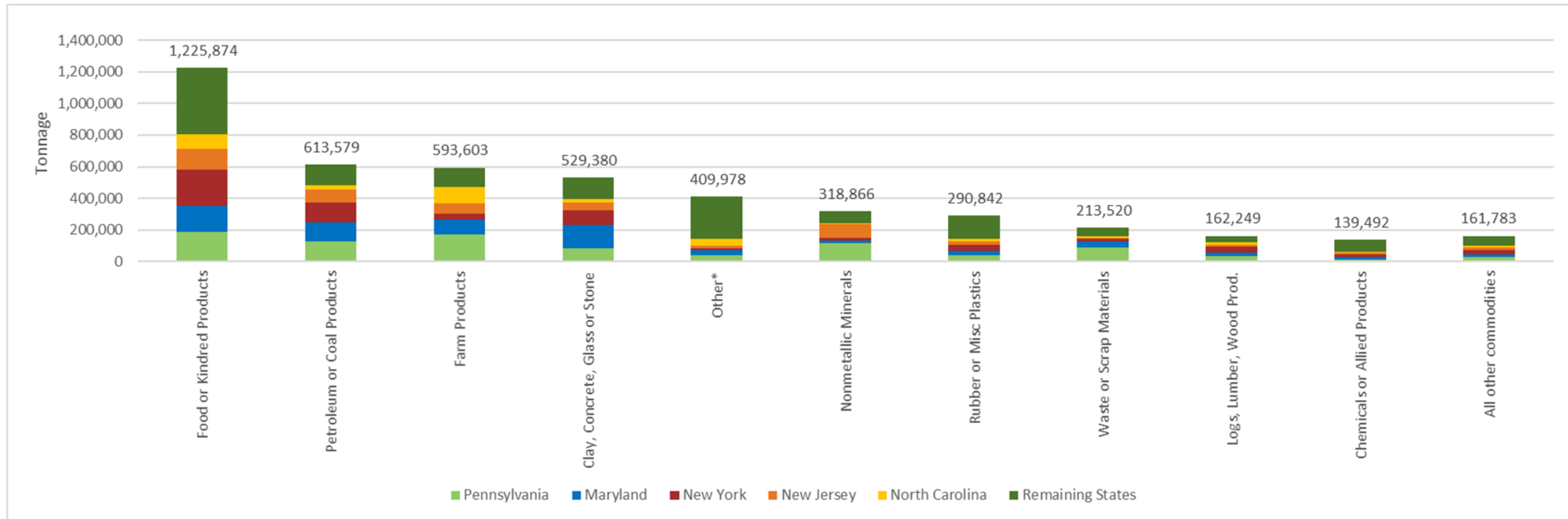
Sources: 2017 Transearch Data

Rail - Outbound Tonnage for Destination States



Sources: 2017 Transearch Data

Truck - Outbound Tonnage for Destination States



Sources: 2017 Transearch Data

Outbound Truck Tonnage: Fabricated Metal Products

- Fabricated Metal Products is the only metal related commodity transported outbound via truck
 - A subsector of the manufacturing industry
 - Transforms metal into intermediate or end products, other than machinery and transportation equipment
 - Rail does not move this commodity

Outbound Freight Tonnage

Outbound Tonnage by Commodity Group

Estimated Tonnage by Truck

- 1 - 15,000
- 15,001 - 50,000
- 50,001 - 150,000
- 150,001 - 500,000
- 500,001 - 714,541

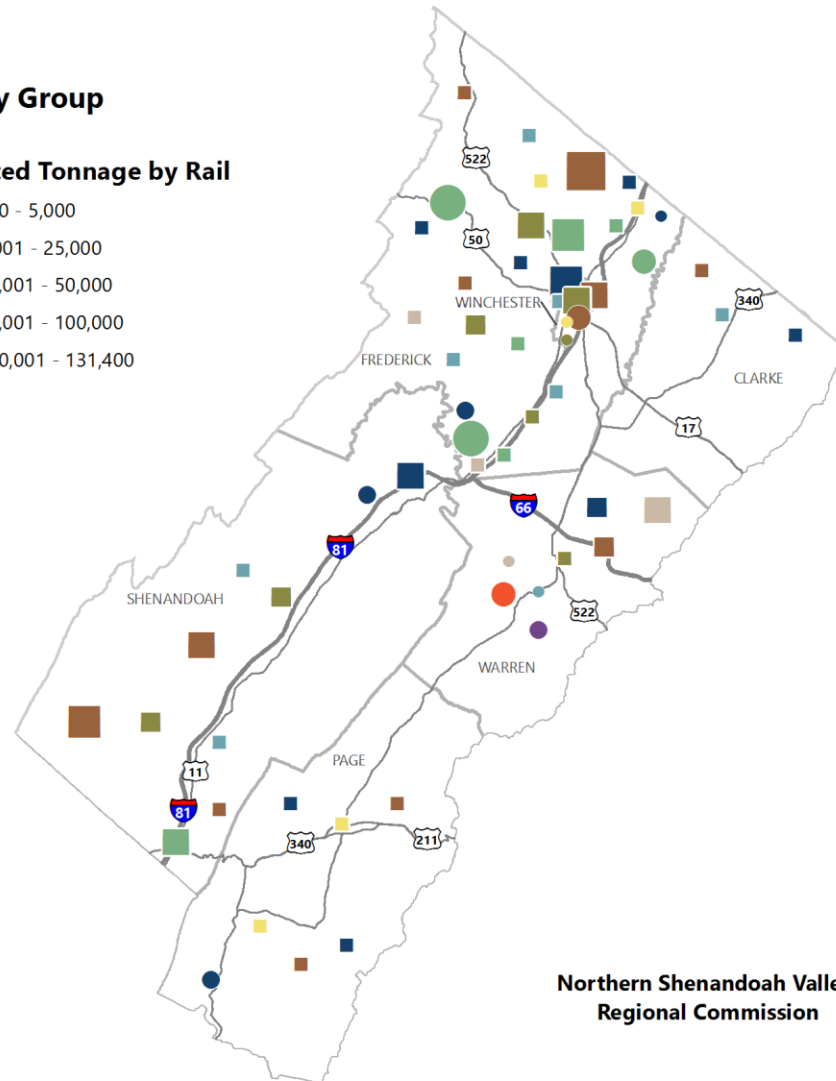
Estimated Tonnage by Rail

- 400 - 5,000
- 5,001 - 25,000
- 25,001 - 50,000
- 50,001 - 100,000
- 100,001 - 131,400

- Interstate Route
- U.S. HWY Route
- County Boundaries

Commodity Group

- Clay, Concrete, Glass, and Stone
- Food and Kindred Products
- Misc Manufacturing Products
- Misc Mixed Shipments
- Chemicals And Allied Products
- Non Metallic Minerals
- Rubber and Misc Plastics
- Transportation Equipment
- Waste Other



Northern Shenandoah Valley
Regional Commission

3.b

Freight Rail and Truck Trends

Future Movements

Tonnage Forecast Comparison

Rail 2045 Forecast

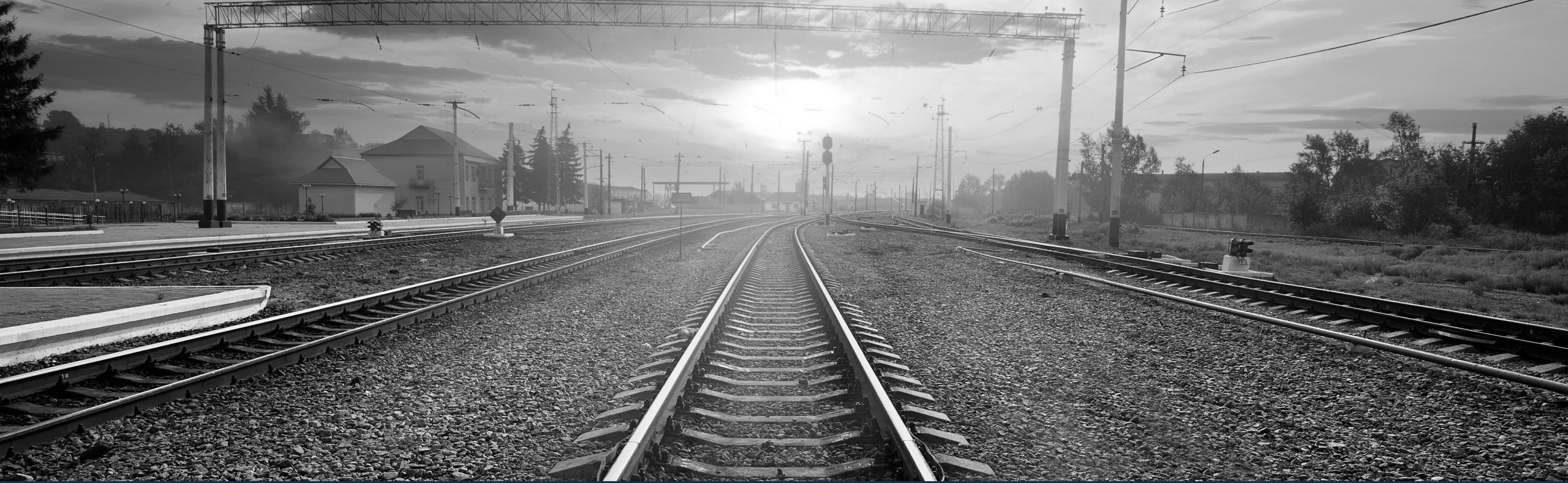
Direction	2017		2045		Change		CAGR
	Amount	Percent	Amount	Percent	Amount	Percent	
Outbound	430,200	24%	579,918	15%	149,718	35%	1.1%
Inbound	1,321,822	75%	3,134,018	84%	1,812,196	137%	3.1%
Within	19,280	1%	27,798	1%	8,518	44%	1.3%
Total	1,771,302		3,741,734		1,970,432	111%	2.7%

Truck 2045 Forecast

Direction	2017		2045		Change		CAGR
	Amount	Percent	Amount	Percent	Amount	Percent	
Outbound	4,659,167	55%	7,947,700	58%	3,288,533	71%	1.9%
Inbound	3,628,063	43%	5,594,496	41%	1,966,433	54%	1.6%
Within	130,552	2%	211,411	2%	80,858	62%	1.7%
Total	8,417,782		13,753,606		5,335,824	63%	1.8%

Note: CAGR = Compound Annual Growth Rate

- Inbound rail tonnage is expected to grow significantly more than the other directions, more than doubling between 2017 and 2045
- Rail is projected to have a larger growth rate, but truck total tonnage remains the primary transportation source in 2045 - particularly for outbound movements



QUESTIONS?

View our project website for additional information:
<https://drpt-srp-2022-hdr.hub.arcgis.com>