

**AGENDA**

10:00-10:40 am	Plenary Workshop Introduction: Overview of needs assessment process, explanations of methodology, performance measures, and thresholds.
10:40-12:00 pm	Mid-Term Needs Discussion: Breakout groups meet with facilitators to identify mid-term needs and to provide feedback on performance measures and analysis thresholds appropriate for the region.
	<p style="text-align: center;"><b>Performance Measures</b></p> <ul style="list-style-type: none"> <li>1A. Congestion Measure for Interstates and Select Limited Access Facilities- 60% of the speed limit</li> <li>1B. Congestion Measure for Interstates and Select Limited Access Facilities- 75% of the speed limit</li> <li>1C. Congestion Measure for Interstates and Select Limited Access Facilities- 90% of the speed limit</li> <li>2. Congestion Measure for Non-Limited Access COSS and Regional Network</li> <li>3A. Unreliable Demand- Weekday</li> <li>3B. Unreliable Demand- Weekend</li> <li>4. Reliability Measure for Non-Limited Access COSS and Regional Network</li> <li>5A. Amtrak On Time Performance</li> <li>5B. VRE On Time Performance</li> <li>6. Accessibility to Activity Centers</li> <li>7A. Disadvantaged Population Beyond ¼ Mile Access to Fixed-Route Transit Service- 80% Threshold</li> <li>7B. Disadvantaged Population Beyond ¼ Mile Access to Fixed-Route Transit Service- 90% Threshold</li> <li>8. Safety: Vehicular Crashes</li> </ul>
12:00-1:00 pm	Lunch/ Opportunity to provide comments at UDA “open house” station
1:00-1:20 pm	Breakout groups review & validate main points, prepare for report-out
1:20-1:45 pm	Report Out: Each breakout group provides a brief summary of its key takeaways, 3-5 minutes per group
1:45-2:00 pm	Wrap Up And Next Steps: Plenary presenter invites remaining questions/ comments from full group, offers closing thoughts/ observations, reiterates the process for finalizing mid-term needs.

### SUMMARY OF TRANSPORTATION RELATED PLANS/STUDIES

Name of Plan	Agency	Date Published	Vision	Goals	Objectives/Strategies	Performance Measures
WinFred MPO 2040 Metropolitan Transportation Plan	WinFred MPO	5/1/2017	It is the policy of the WinFred MPO and its member jurisdictions to strive for a multi-modal transportation system that is planned, designed, operated and maintained to provide safe, efficient, fiscally-sustainable access to economic and community life for all, regardless of one’s ability, desire or opportunity to drive, while preserving and enhancing environmental quality and community character.	Support the economic vitality of the United States, the States, nonmetropolitan areas, and metropolitan areas, especially by enabling global competitiveness, productivity, and efficiency;	Reduce the amount of travel that takes place in severe congestion	
					Reduce the number and severity of freight bottlenecks	
					Improve reliability on key corridors for all modes	
				Increase the accessibility and mobility of people and freight;	Reduce average peak-period travel times	
					Reduce average daily trip lengths	
					Increase accessibility to jobs via transit, walking and driving	
				Increase the safety of the transportation system for motorized and non-motorized users	Reduce the number and rate of motorized fatalities and severe injuries	
					Reduce the number of non-motorized fatalities and severe injuries	
				Promote efficient system management and operation	Improve the condition of all bridges based on deck area	
					Increase the lane miles of pavement in good or fair condition	
					Increase percent of transit vehicles and facilities in good or fair condition	
				Healthy Communities and Sustainable Transportation Communities	Reduce per-capita vehicle miles traveled	
					Reduce transportation-related emissions	
Increase the number of bicycling and walking trips						
Bicycle and Pedestrian Master Plan Update	NSVRC/ WinFred MPO	2/1/2014		Fund and construct most or all of the high value, lower cost projects, as identified in the final project rankings		
				Intersperse the implementation of these projects with projects that add to the Green Circle Trail		
				Conduct community outreach in order to most efficiently move forward with high value projects important for medium- and longer-term bicycle and pedestrian connectivity goals		
				As opportunities arise to construct the other highly ranked projects, such as through restriping or repaving efforts, be sure those projects are included in the reconstruction efforts		

Name of Plan	Agency	Date Published	Vision	Goals	Objectives/Strategies	Performance Measures
Route 11 (Valley Pike / Valley Avenue) Corridor Study	VDOT/ WinFred MPO	8/6/2018	This STARS corridor study focuses on evaluating the Route 11 corridor from Battle Park Drive to Renaissance Drive in terms of both congestion and safety, assessing measures to reduce congestion, and recommending potential improvements to address the identified congestion and safety issues.	Determine and assess measures to reduce congestion and improve safety, recommend possible adjustments to signal phasing, roadway geometry, and/or spot improvements to alleviate congestion and address safety as well as access management issues.		Intersection Control Delay (seconds/vehicle) and resulting Level of Service (LOS)
						95th Percentile Queue Length (feet)
Northern Shenandoah Valley Regional Commission 2035 Rural Long Range Transportation Plan	NSVRC	2011		Build on the Northern Shenandoah Valley’s historical role as transportation corridor having many crossroad communities and marketplaces by improving the regional transportation system to service both local and through traffic.	Reconstruct roads to address geometric deficiencies. Replace aging bridges.	
				Anticipate the growth of the industrial market and the growth of the Inland Port through transportation improvements that manage industrial access and increase freight rail service.	Widen streets with forecasted congestion growth.	
				Provide land use patterns that maximize the efficiency of the transportation network.		
				Encourage growth in town, city and urban-services areas providing adequate and convenient parking and a connected system of sidewalks and walking paths.	Implement new public transportation services or operate existing public transit services on more frequent basis.	
				Encourage the use of alternate modes of transportation to that of the single occupancy vehicle for routine trips such as walking, bicycling, ridesharing, commuter pooling, and public transit, with connections to commercial air and rail services.		
				Provide a safe and efficient road system within the Northern Shenandoah Valley.	Improve access, signage, and intersection design.	

## Urban Development Area Needs Assessment- 2019 Responses

Jurisdiction	UDAs or DGAs (#)	VDOT District	Area sq. mi.	Year Designated	Improvement Urgency	Highest Rated Overall Need	Internal UDA Specific Multimodal Transportation Needs (Highest Identified Need)	In Regional Network
Town of Berryville	Town of Berryville	Staunton	2.3	2011	Beyond 5 years	Friendly pedestrian and bicycle environment	pedestrian infrastructure, safety features, signage/wayfinding, improvements to the natural environment,	No
Frederick County	Frederick County	Staunton	26.9	2011	Within 5 years	Transit enhancements	roadway capacity and infrastructure, roadway operations, safety features, intersection design,	Yes
Town of Luray	All UDAs in Jurisdiction (6)	Staunton	0.1	2011	Beyond 5 years	Safety for All Users	pedestrian infrastructure, safety features, improvements to the natural environment, sidewalks	No
Town of New Market	All UDAs in Jurisdiction (3)	Staunton	0.3	2012	Beyond 5 years	Access to transportation networks within and beyond the UDA	roadway capacity and infrastructure	No
Page County	All UDAs in Jurisdiction (6)	Staunton	1.1	2011		<i>Access to transportation networks beyond the UDA; Friendly pedestrian and bicycle environment</i>	<i>Roadway Capacity/Infrastructure Improvements; Transit Frequency; Transit Operations; Bicycle Infrastructure; Pedestrian Infrastructure; Signage/Wayfinding; Improvements to the Natural Environment</i>	No
Strasburg	Downtown/Mid-Village/Golden Triangle	Staunton	0.4	2011	Within 5 years	Transit enhancements	roadway operations, street grid, bicycle infrastructure, pedestrian infrastructure, complete streets improvements, intersection design, sidewalks,	No
Warren County	Town of Front Royal (2)	Staunton	0.5	2011	Within 5 years	Transit enhancements	roadway capacity and infrastructure, roadway operations, street grid, bicycle infrastructure, pedestrian infrastructure, complete streets improvements, safety features, intersection design,	No
Woodstock	Glenmont/Eagle	Staunton	0.2	2011	Beyond 5 years	Transit enhancements	Bicycle infrastructure, pedestrian infrastructure, complete streets improvements, safety features, intersection design, signage/wayfinding, improvements to the natural environment	No

*Previous responses Italicized*

### UDA VARIABLES

UDA Name	Governing Bodies	Area	Year Designated	Centerline Miles	Population and Density (Persons per Acre) <sup>1</sup>	Employment and Density (Persons per Acre) <sup>2</sup>	UDA Transit	Modal Information
Berryville	PDC: Northern Shenandoah Valley Regional Commission MPO: N/A District: Staunton Jurisdiction: Clarke County	Sq. miles: 2.26 Acres: 1,450.30		24.62	UDA Population: 2,412 UDA Population Density: 1.66	UDA employment: 2,358 Total UDA employment in freight related industries: 790 Total UDA employment in local serving industries: 1,380 Total UDA employment in knowledge-based industries: 188 UDA Employment density: 1.63	Percent of UDA population served by transit (within 1/4 mile of transit stop): 0% Percent of UDA employment served by transit (within 1/4 mile of transit stop): 0%	Number of bus stops: 0 Miles of bus routes: 0 Number of ferry stops: 0 Miles of ferry routes: 0 Number of rail stops: 0 Miles of rail: 0
Luray Town	PDC: Northern Shenandoah Valley Regional Commission MPO: N/A District: Staunton Jurisdiction: Page County	Sq. miles: 0.07 Acres: 41.71	2011	0	UDA Population: 20 UDA Population Density: 0.47	UDA employment: 0 Total UDA employment in freight related industries: 0 Total UDA employment in local serving industries: 0 Total UDA employment in knowledge-based industries: 0 UDA Employment density: 0	Percent of UDA population served by transit (within 1/4 mile of transit stop): 0% Percent of UDA employment served by transit (within 1/4 mile of transit stop): 0%	Number of bus stops: 0 Miles of bus routes: 0 Number of ferry stops: 0 Miles of ferry routes: 0 Number of rail stops: 0 Miles of rail: 0
New Market Town-Eastern New Market	PDC: Northern Shenandoah Valley Regional Commission MPO: N/A District: Staunton Jurisdiction: Shenandoah County	Sq. miles: 0.06 Acres: 36.26	2012	1.22	UDA Population: 15 UDA Population Density: 0.41	UDA employment: 44 Total UDA employment in freight related industries: 3 Total UDA employment in local serving industries: 40 Total UDA employment in knowledge-based industries: 1 UDA Employment density: 1.22	Percent of UDA population served by transit (within 1/4 mile of transit stop): 0% Percent of UDA employment served by transit (within 1/4 mile of transit stop): 0%	Number of bus stops: 0 Miles of bus routes: 0 Number of ferry stops: 0 Miles of ferry routes: 0 Number of rail stops: 0 Miles of rail: 0
New Market Town-Northern New Market	PDC: Northern Shenandoah Valley Regional Commission MPO: N/A District: Staunton Jurisdiction: Shenandoah County	Sq. miles: 0.30 Acres: 190.33	2012	1.08	UDA Population: 29 UDA Population Density: 0.15	UDA employment: 18 Total UDA employment in freight related industries: 6 Total UDA employment in local serving industries: 12 Total UDA employment in knowledge-based industries: 0 UDA Employment density: 0.09	Percent of UDA population served by transit (within 1/4 mile of transit stop): 0% Percent of UDA employment served by transit (within 1/4 mile of transit stop): 0%	Number of bus stops: 0 Miles of bus routes: 0 Number of ferry stops: 0 Miles of ferry routes: 0 Number of rail stops: 0 Miles of rail: 0
New Market Town-Southern New Market	PDC: Northern Shenandoah Valley Regional Commission MPO: N/A District: Staunton Jurisdiction: Shenandoah County	Sq. miles: 0.10 Acres: 64.58	2012	0.71	UDA Population: 27 UDA Population Density: 0.41	UDA employment: 8 Total UDA employment in freight related industries: 1 Total UDA employment in local serving industries: 4 Total UDA employment in knowledge-based industries: 3 UDA Employment density: 0.12	Percent of UDA population served by transit (within 1/4 mile of transit stop): 0% Percent of UDA employment served by transit (within 1/4 mile of transit stop): 0%	Number of bus stops: 0 Miles of bus routes: 0 Number of ferry stops: 0 Miles of ferry routes: 0 Number of rail stops: 0 Miles of rail: 0
Page County-Judy Lane	PDC: Northern Shenandoah Valley Regional Commission MPO: N/A District: Staunton Jurisdiction: Page County	Sq. miles: 0.15 Acres: 94.61	2011	0	UDA Population: 98 UDA Population Density: 1.04	UDA employment: 1 Total UDA employment in freight related industries: 1 Total UDA employment in local serving industries: 0 Total UDA employment in knowledge-based industries: 0 UDA Employment density: 0.01	Percent of UDA population served by transit (within 1/4 mile of transit stop): 0% Percent of UDA employment served by transit (within 1/4 mile of transit stop): 0%	Number of bus stops: 0 Miles of bus routes: 0 Number of ferry stops: 0 Miles of ferry routes: 0 Number of rail stops: 0 Miles of rail: 0
Page County-Luray Landing	PDC: Northern Shenandoah Valley Regional Commission MPO: N/A District: Staunton	Sq. miles: 0.08 Acres: 50.76	2011	0.96	UDA Population: 24 UDA Population Density: 0.47	UDA employment: 5 Total UDA employment in freight related industries: 0 Total UDA employment in local serving industries: 5 Total UDA employment in knowledge-based industries: 0	Percent of UDA population served by transit (within 1/4 mile of transit stop): 0%	Number of bus stops: 0 Miles of bus routes: 0 Number of ferry stops: 0 Miles of ferry routes: 0

UDA Name	Governing Bodies	Area	Year Designated	Centerline Miles	Population and Density (Persons per Acre) <sup>1</sup>	Employment and Density (Persons per Acre) <sup>2</sup>	UDA Transit	Modal Information
	Jurisdiction: Page County					UDA Employment density: 0.10	Percent of UDA employment served by transit (within 1/4 mile of transit stop): 0%	Number of rail stops: 0 Miles of rail: 0
Page County- Main St/Bosley	PDC: Northern Shenandoah Valley Regional Commission MPO: N/A District: Staunton Jurisdiction: Page County	Sq. miles: 0.22 Acres: 139.88	2011	1.18	UDA Population: 93 UDA Population Density: 0.67	UDA employment: 17 Total UDA employment in freight related industries: 6 Total UDA employment in local serving industries: 8 Total UDA employment in knowledge-based industries: 2 UDA Employment density: 0.12	Percent of UDA population served by transit (within 1/4 mile of transit stop): 0% Percent of UDA employment served by transit (within 1/4 mile of transit stop): 0%	Number of bus stops: 0 Miles of bus routes: 0 Number of ferry stops: 0 Miles of ferry routes: 0 Number of rail stops: 0 Miles of rail: 0
Page County- Ramsey	PDC: Northern Shenandoah Valley Regional Commission MPO: N/A District: Staunton Jurisdiction: Page County	Sq. miles: 0.02 Acres: 9.67	2011	0	UDA Population: 14 UDA Population Density: 1.46	UDA employment: 0 Total UDA employment in freight related industries: 0 Total UDA employment in local serving industries: 0 Total UDA employment in knowledge-based industries: 0 UDA Employment density: 0	Percent of UDA population served by transit (within 1/4 mile of transit stop): 0% Percent of UDA employment served by transit (within 1/4 mile of transit stop): 0%	Number of bus stops: 0 Miles of bus routes: 0 Number of ferry stops: 0 Miles of ferry routes: 0 Number of rail stops: 0 Miles of rail: 0
Page County- Reservoir Road /Eden Road	PDC: Northern Shenandoah Valley Regional Commission MPO: N/A District: Staunton Jurisdiction: Page County	Sq. miles: 0.27 Acres: 170.88	2011	0	UDA Population: 92 UDA Population Density: 0.54	UDA employment: 31 Total UDA employment in freight related industries: 11 Total UDA employment in local serving industries: 13 Total UDA employment in knowledge-based industries: 7 UDA Employment density: 0.18	Percent of UDA population served by transit (within 1/4 mile of transit stop): 0% Percent of UDA employment served by transit (within 1/4 mile of transit stop): 0%	Number of bus stops: 0 Miles of bus routes: 0 Number of ferry stops: 0 Miles of ferry routes: 0 Number of rail stops: 0 Miles of rail: 0
Page County- W Main St/ Leaksville	PDC: Northern Shenandoah Valley Regional Commission MPO: N/A District: Staunton Jurisdiction: Page County	Sq. miles: 0.26 Acres: 163.34	2011	0.31	UDA Population: 48 UDA Population Density: 0.29	UDA employment: 100 Total UDA employment in freight related industries: 0 Total UDA employment in local serving industries: 100 Total UDA employment in knowledge-based industries: 0 UDA Employment density: 0.61	Percent of UDA population served by transit (within 1/4 mile of transit stop): 0% Percent of UDA employment served by transit (within 1/4 mile of transit stop): 0%	Number of bus stops: 0 Miles of bus routes: 0 Number of ferry stops: 0 Miles of ferry routes: 0 Number of rail stops: 0 Miles of rail: 0
Strasburg	PDC: Northern Shenandoah Valley Regional Commission MPO: N/A District: Staunton Jurisdiction: Shenandoah County	Sq. miles: 0.38 Acres: 245.12		8.24	UDA Population: 285 UDA Population Density: 1.16	UDA employment: 421 Total UDA employment in freight related industries: 46 Total UDA employment in local serving industries: 288 Total UDA employment in knowledge-based industries: 87 UDA Employment density: 1.72	Percent of UDA population served by transit (within 1/4 mile of transit stop): 0% Percent of UDA employment served by transit (within 1/4 mile of transit stop): 0%	Number of bus stops: 0 Miles of bus routes: 0 Number of ferry stops: 0 Miles of ferry routes: 0 Number of rail stops: 0 Miles of rail: 0
Warren County -Front Royal Town North	PDC: Northern Shenandoah Valley Regional Commission MPO: N/A District: Staunton Jurisdiction: Warren County	Sq. miles: 0.53 Acres: 341.79	2011	0.17	UDA Population: 262 UDA Population Density: 0.77	UDA employment: 99 Total UDA employment in freight related industries: 23 Total UDA employment in local serving industries: 69 Total UDA employment in knowledge-based industries: 8 UDA Employment density: 0.29	Percent of UDA population served by transit (within 1/4 mile of transit stop): 0% Percent of UDA employment served by transit (within 1/4 mile of transit stop): 0%	Number of bus stops: 0 Miles of bus routes: 0 Number of ferry stops: 0 Miles of ferry routes: 0 Number of rail stops: 0 Miles of rail: 0

UDA Name	Governing Bodies	Area	Year Designated	Centerline Miles	Population and Density (Persons per Acre) <sup>1</sup>	Employment and Density (Persons per Acre) <sup>2</sup>	UDA Transit	Modal Information
Warren County -Front Royal Town South	PDC: Northern Shenandoah Valley Regional Commission MPO: N/A District: Staunton Jurisdiction: Warren County	Sq. miles: 0.08 Acres: 50.17	2011	0	UDA Population: 161 UDA Population Density: 3.21	UDA employment: 274 Total UDA employment in freight related industries: 2 Total UDA employment in local serving industries: 254 Total UDA employment in knowledge-based industries: 17 UDA Employment density: 5.46	Percent of UDA population served by transit (within 1/4 mile of transit stop): 0% Percent of UDA employment served by transit (within 1/4 mile of transit stop): 0%	Number of bus stops: 0 Miles of bus routes: 0 Number of ferry stops: 0 Miles of ferry routes: 0 Number of rail stops: 0 Miles of rail: 0
Warren County -Leach Run	PDC: Northern Shenandoah Valley Regional Commission MPO: N/A District: Staunton Jurisdiction: Warren County	Sq. miles: 0.53 Acres: 339.61	2011	4.66	UDA Population: 374 UDA Population Density: 1.10	UDA employment: 52 Total UDA employment in freight related industries: 6 Total UDA employment in local serving industries: 45 Total UDA employment in knowledge-based industries: 1 UDA Employment density: 0.15	Percent of UDA population served by transit (within 1/4 mile of transit stop): 0% Percent of UDA employment served by transit (within 1/4 mile of transit stop): 0%	Number of bus stops: 0 Miles of bus routes: 0 Number of ferry stops: 0 Miles of ferry routes: 0 Number of rail stops: 0 Miles of rail: 0
Woodstock Town-Area 1	PDC: Northern Shenandoah Valley Regional Commission MPO: N/A District: Staunton Jurisdiction: Shenandoah County	Sq. miles: 0.18 Acres: 155.50	2011	1.19	UDA Population: 67 UDA Population Density: 0.58	UDA employment: 0 Total UDA employment in freight related industries: 0 Total UDA employment in local serving industries: 0 Total UDA employment in knowledge-based industries: 0 UDA Employment density: 0	Percent of UDA population served by transit (within 1/4 mile of transit stop): 0% Percent of UDA employment served by transit (within 1/4 mile of transit stop): 0%	Number of bus stops: 0 Miles of bus routes: 0 Number of ferry stops: 0 Miles of ferry routes: 0 Number of rail stops: 0 Miles of rail: 0
Woodstock Town-Area 2	PDC: Northern Shenandoah Valley Regional Commission MPO: N/A District: Staunton Jurisdiction: Shenandoah County	Sq. miles: 0.18 Acres: 155.62	2011	0.28	UDA Population: 96 UDA Population Density: 0.83	UDA employment: 40 Total UDA employment in freight related industries: 9 Total UDA employment in local serving industries: 6 Total UDA employment in knowledge-based industries: 26 UDA Employment density: 0.35	Percent of UDA population served by transit (within 1/4 mile of transit stop): 0% Percent of UDA employment served by transit (within 1/4 mile of transit stop): 0%	Number of bus stops: 0 Miles of bus routes: 0 Number of ferry stops: 0 Miles of ferry routes: 0 Number of rail stops: 0 Miles of rail: 0

<sup>1</sup> Source: United States Census Bureau, American Community Survey 2013-2017

<sup>2</sup> Source: United States Census Bureau, Longitudinal Employer-Household Dynamics 2015

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Frederick County	PDC: Northern Shenandoah Valley Regional Commission MPO: WinFred District: Staunton Jurisdiction: Frederick County	Sq. miles: 26.85 Acres: 17,184.97	2011	304.22	UDA Population: 38,725 UDA Population Density: 2.25	UDA employment: 9,913 Total UDA employment in freight related industries: 4,864 Total UDA employment in local serving industries: 4,197 Total UDA employment in knowledge-based industries: 852 UDA Employment density: 0.58	Percent of UDA population served by transit (within 1/4 mile of transit stop): 6% Percent of UDA employment served by transit (within 1/4 mile of transit stop): 6%	Number of bus stops: 122 Miles of bus routes: 9.32 Number of ferry stops: 0 Miles of ferry routes: 0 Number of rail stops: 0 Miles of rail: 0

<sup>1</sup> Source: United States Census Bureau, American Community Survey 2013-2017

<sup>2</sup> Source: United States Census Bureau, Longitudinal Employer-Household Dynamics 2015