Regional Workshop - Harrisonburg Area July 29, 2019 Shenandoah **Activity Centers** Freight dependent Knowledge Local serving Amtrak/Passenger Rail Stations Airports Interstates 340 1 - 10,000 10,000 - 25,000 25,000 - 50,000 211 50,000 - 75,000 Rockingham 211 Greater than 75,000 Other Selected Limited Access Facilities → Rail Network <u>[340]</u> **Urban Development Buffer around Primary COSS** Facilities Regional Network Counties and Cities 33 Water Madison Harrisonburg SE **VDOT Construction Districts** ${33}$ Augusta Greene 33 250 Office of INTERMODAL Planning and Investment **Albemarle** VTRANS | VIRGINIA'S TRANSPORTATION PLAN

Date: 8/13/2019

This depiction of measures and data shown on this map are intended to be used as an aid in discussing Mid-term Needs. This depiction of measures and data do not represent Mid-Term Needs. They are one of several inputs used in the determination of Needs and are not the sole determinant.

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Regional Workshop - Staunton Area

July 29, 2019

Activity Centers

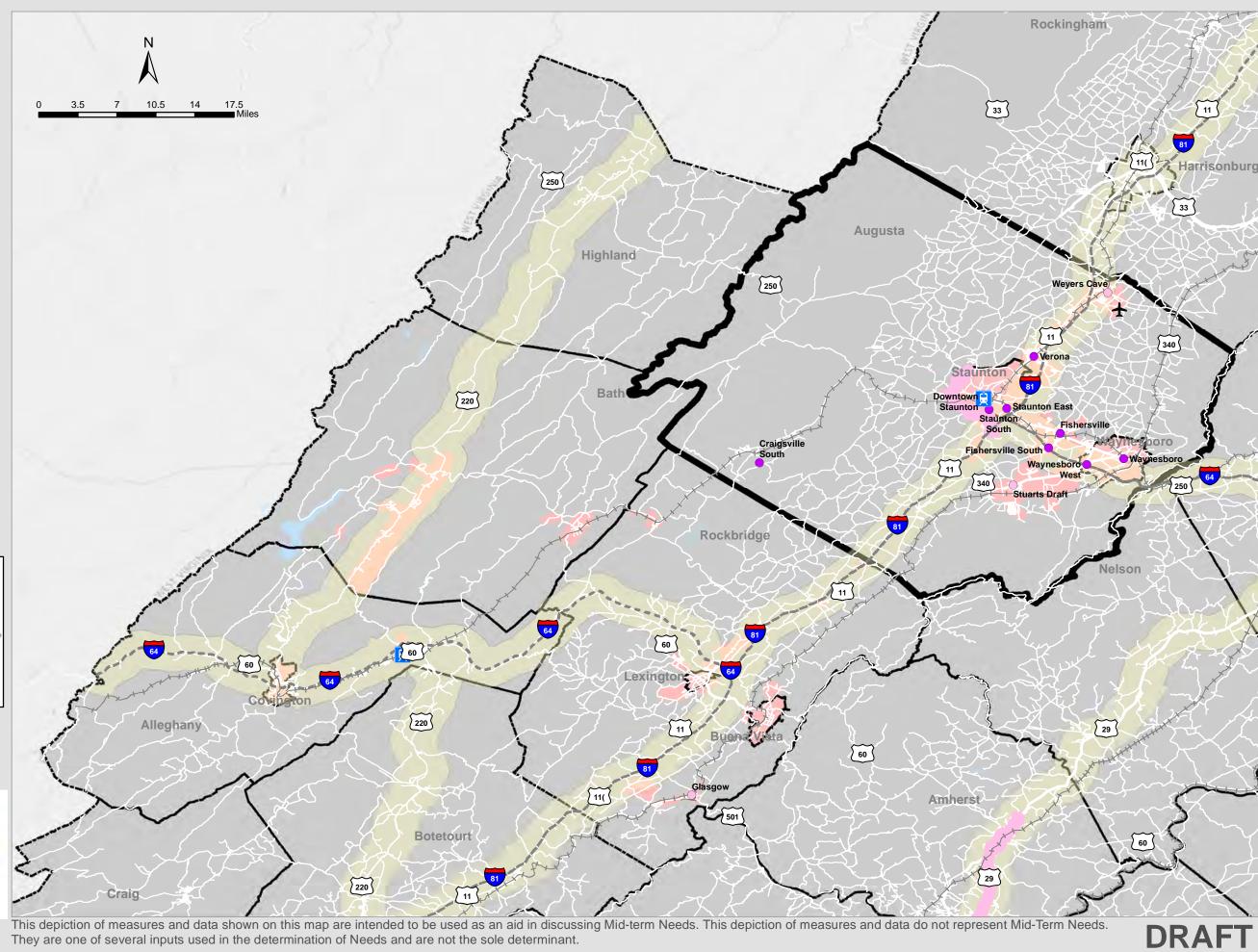
- Freight dependent
- Knowledge
- Local serving
- Ports
- Amtrak/Passenger Rail Stations
- **★** Airports
- = = = Interstates
 - C
 - **1 10,000**
- 10,000 25,000
 - 25,000 50,000
- 50,000 75,000
- Greater than 75,000
 - Other Selected Limited Access Facilities
- ------ Rail Network
- Urban Development
 - Buffer around Primary COSS Facilities
- Regional Network
 - Counties and Cities
 Water

VDOT Construction Districts

Northern Virginia
District
Culpeper
Staunton District
District
District
Fredericksburg
District
Richmond
District
Dist



Date: 8/13/2019



Regional Workshop - Staunton-Harrisonburg Area

July 29, 2019

Activity Centers

Freight dependent

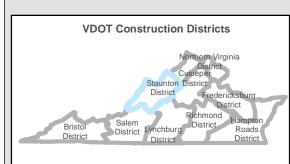
Knowledge

Freight dependent
Knowledge
Local serving
Ports
Amtrak/Passenger Rail Stations
Airports
Interstates
1 - 10,000
10,000 - 25,000
25,000 - 50,000
50,000 - 75,000
Greater than 75,000

Urban Development

Buffer around Primary COSS

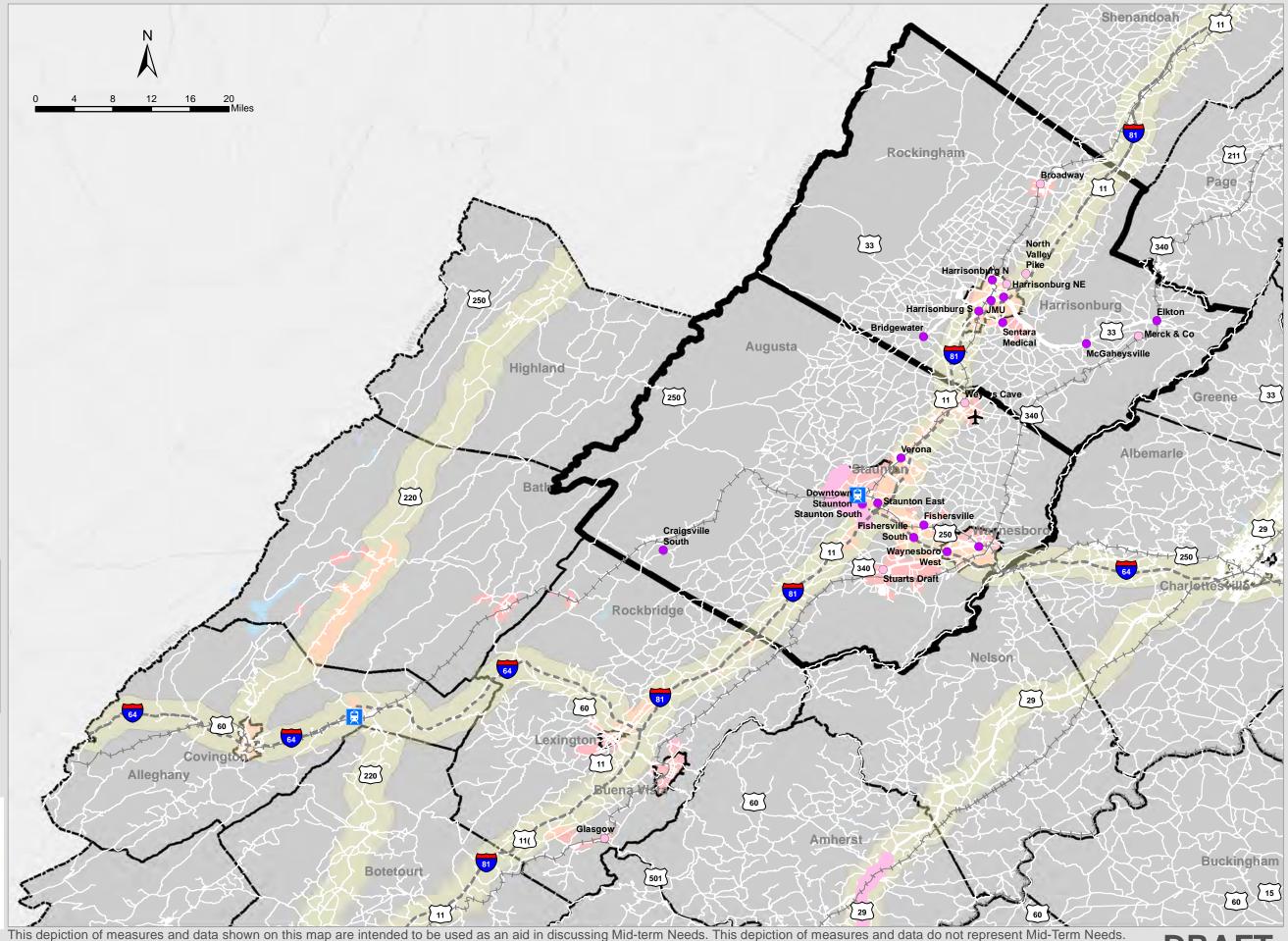
Regional Network
Counties and Cities
Water

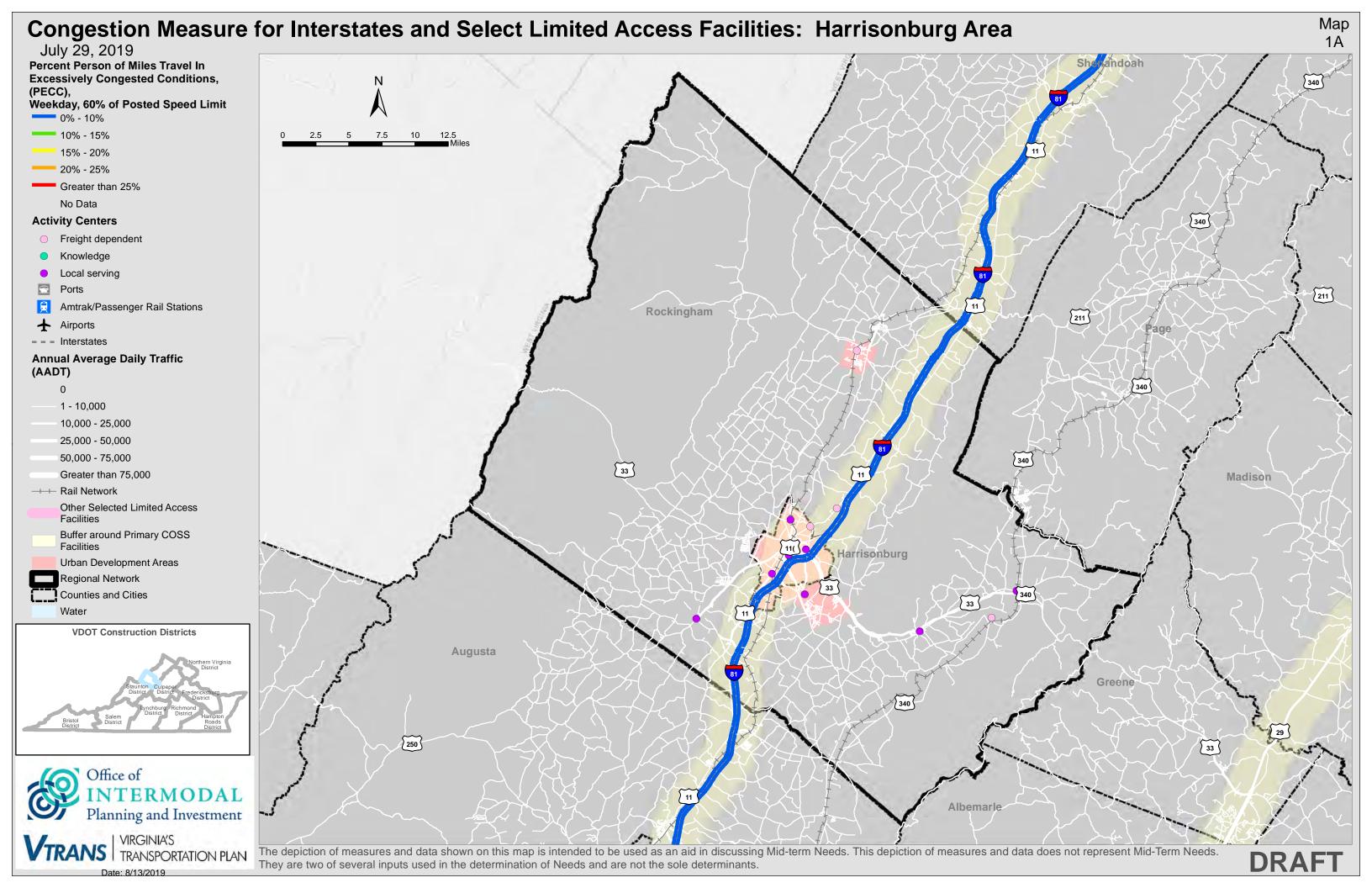


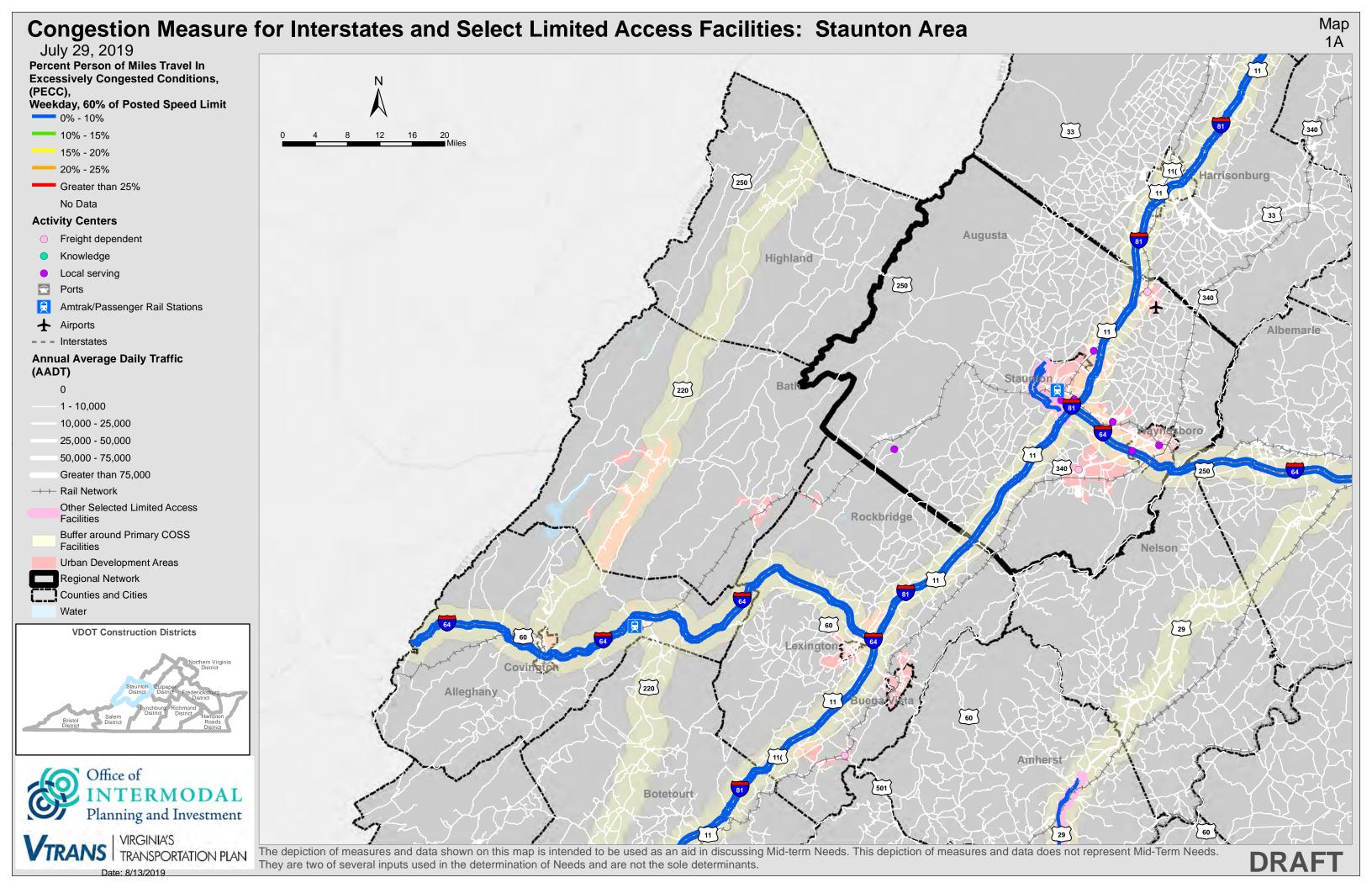


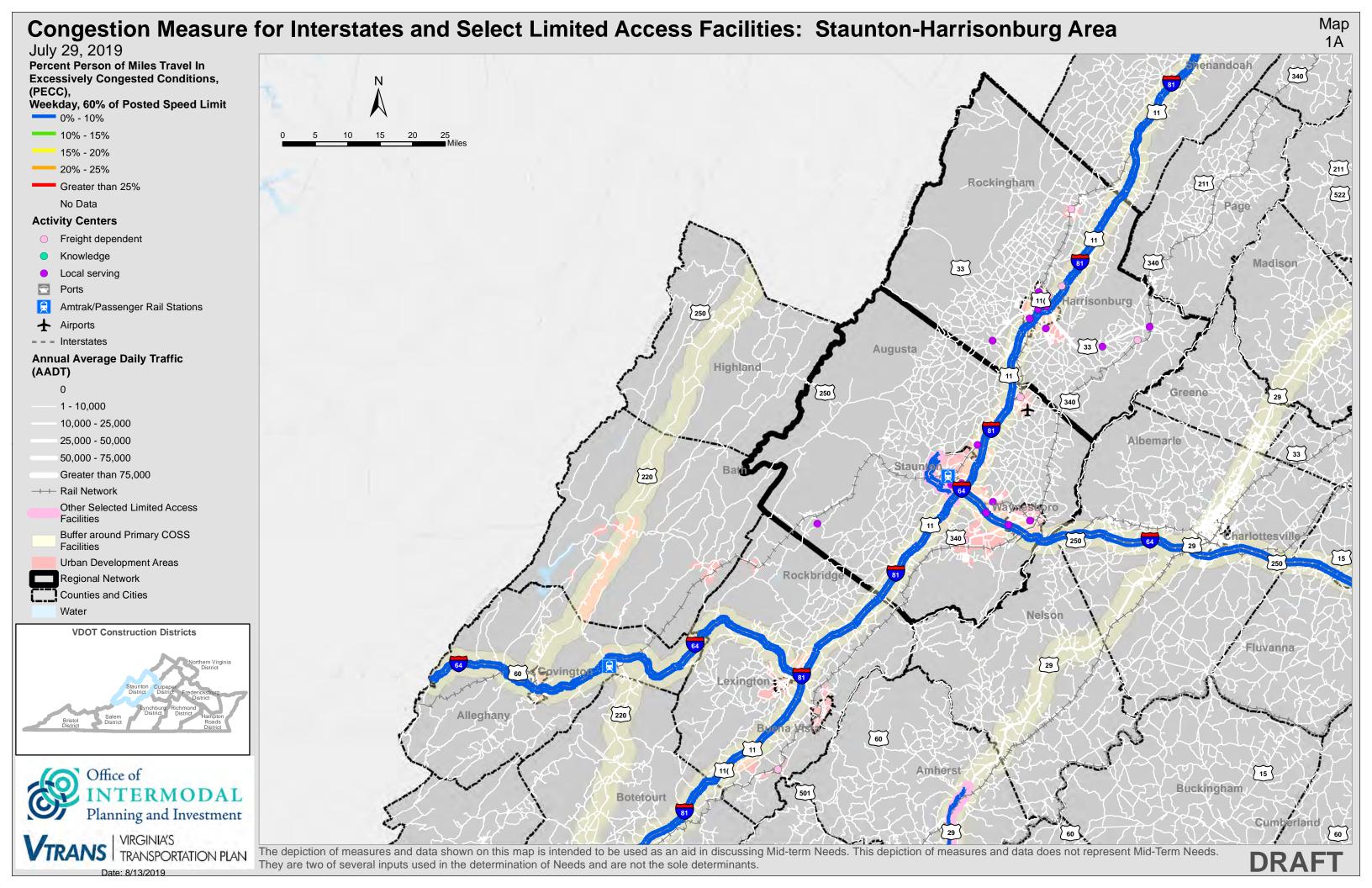
Date: 8/13/2019

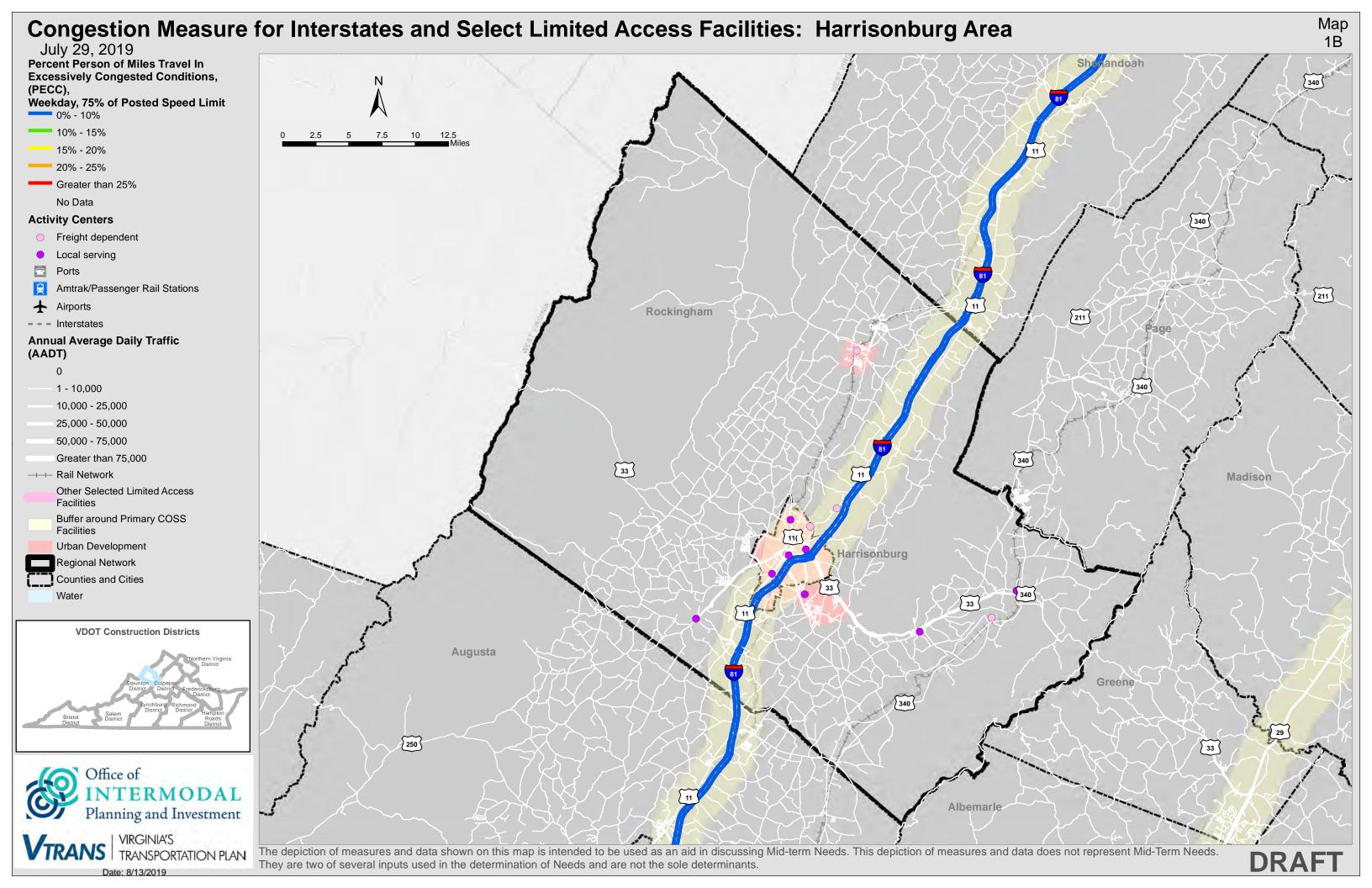
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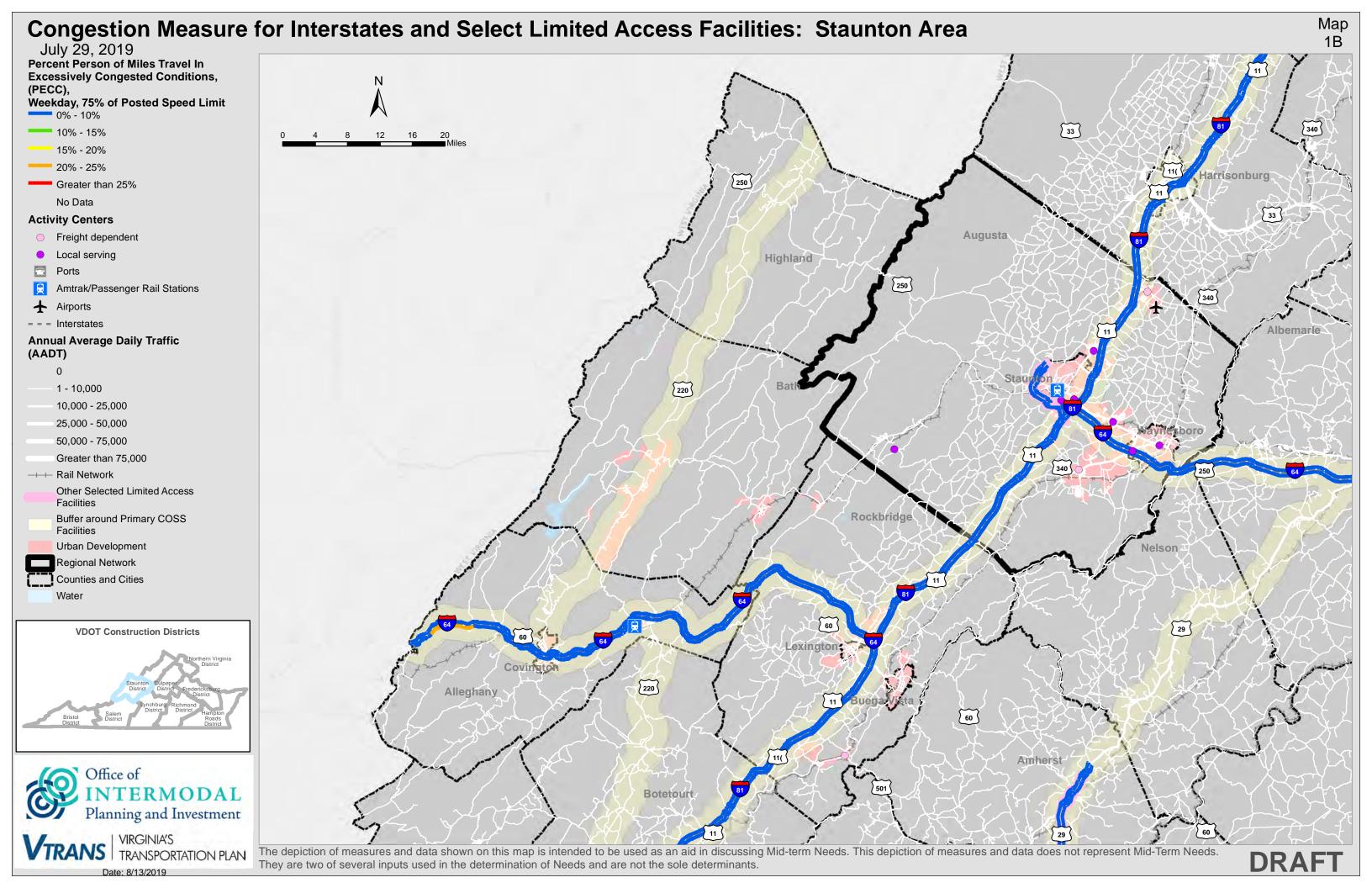


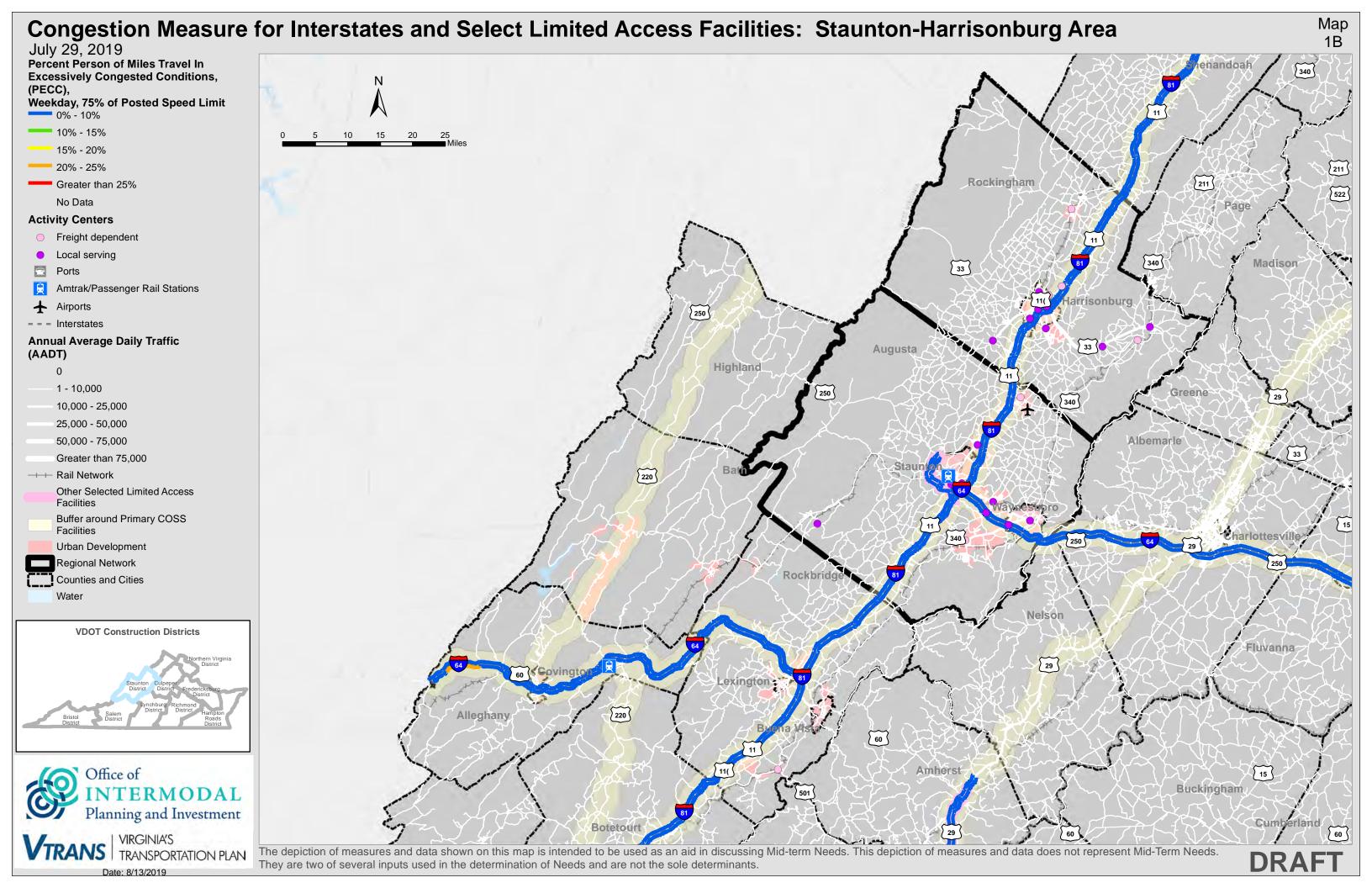


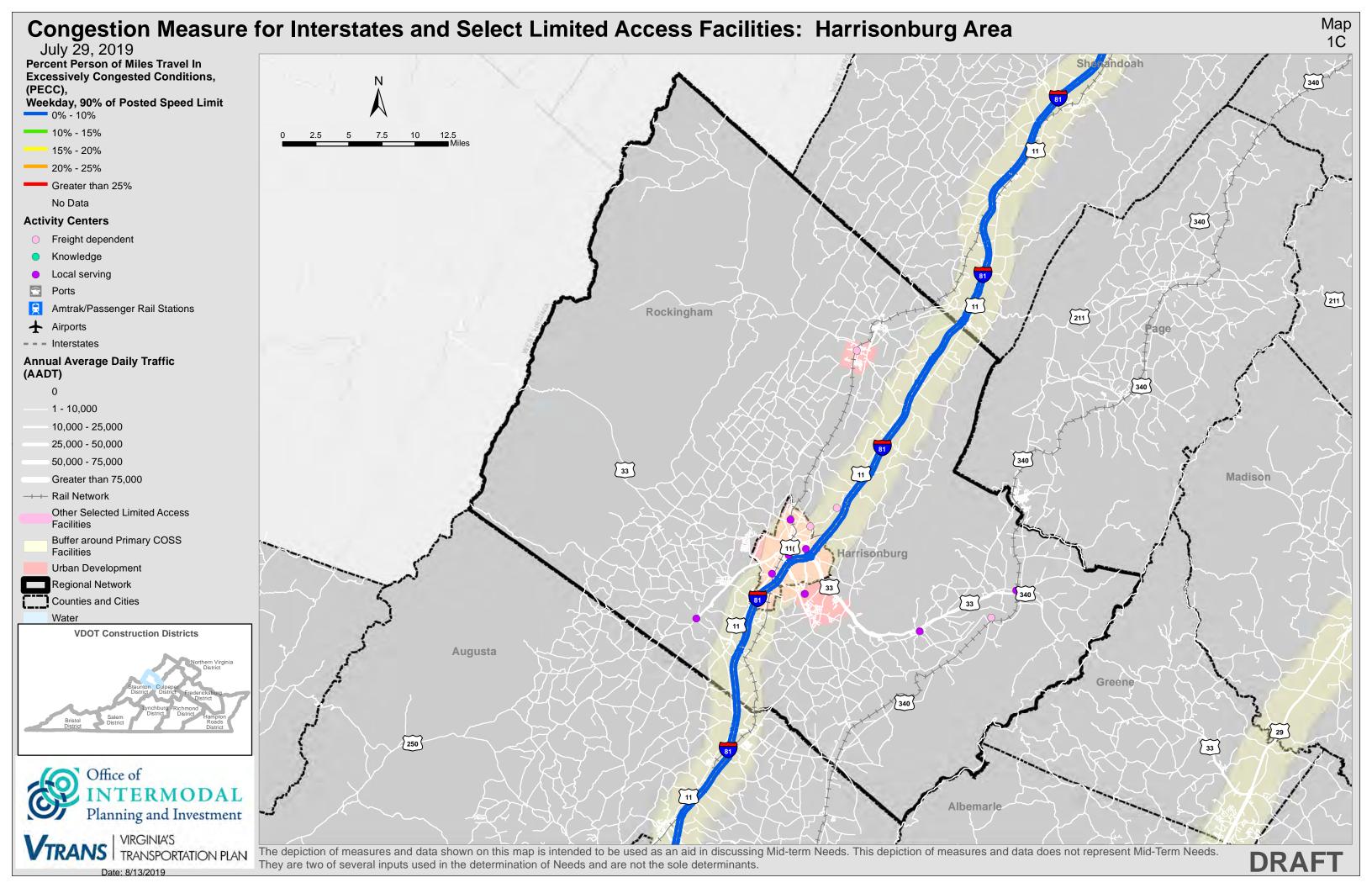


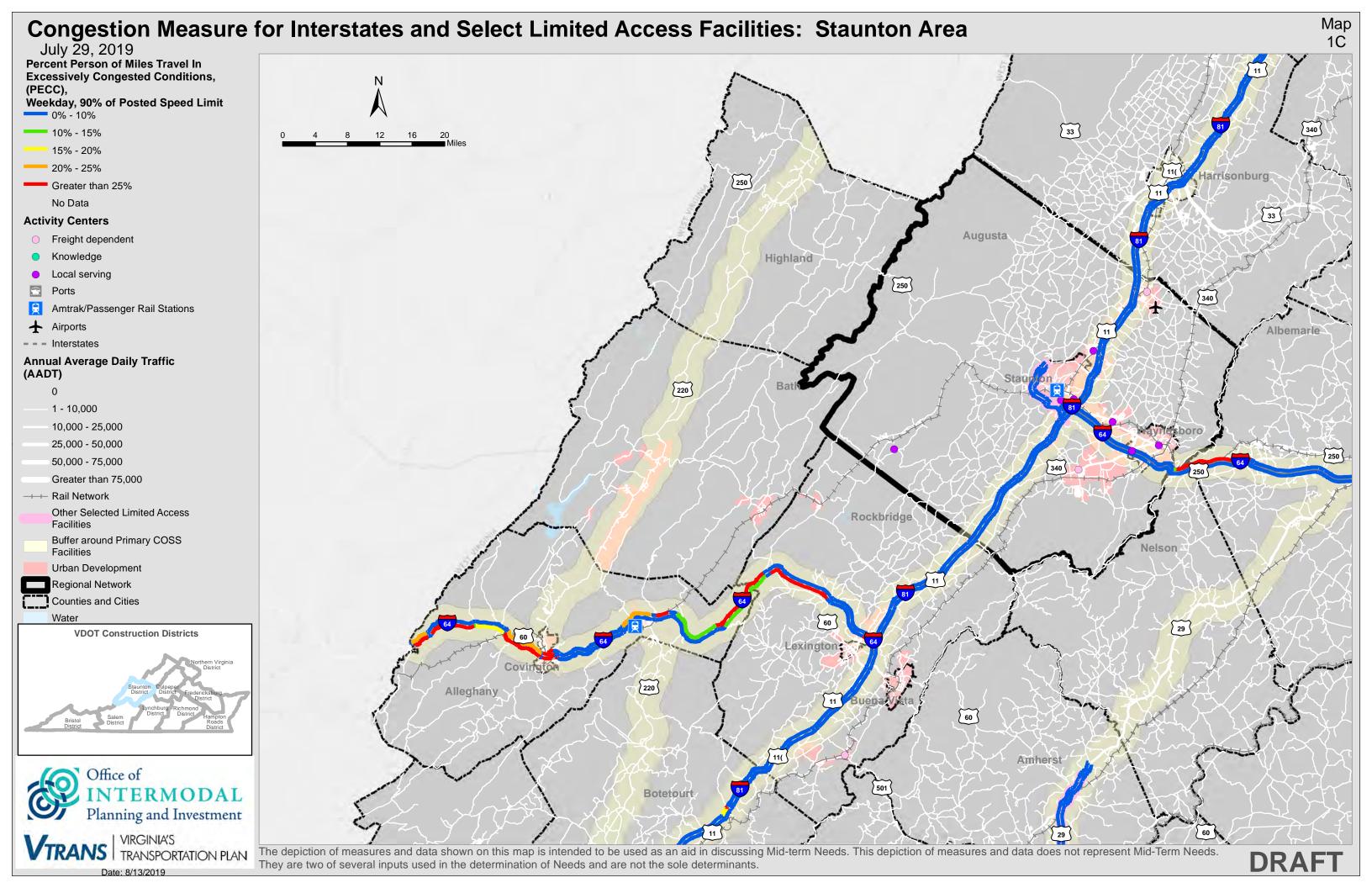


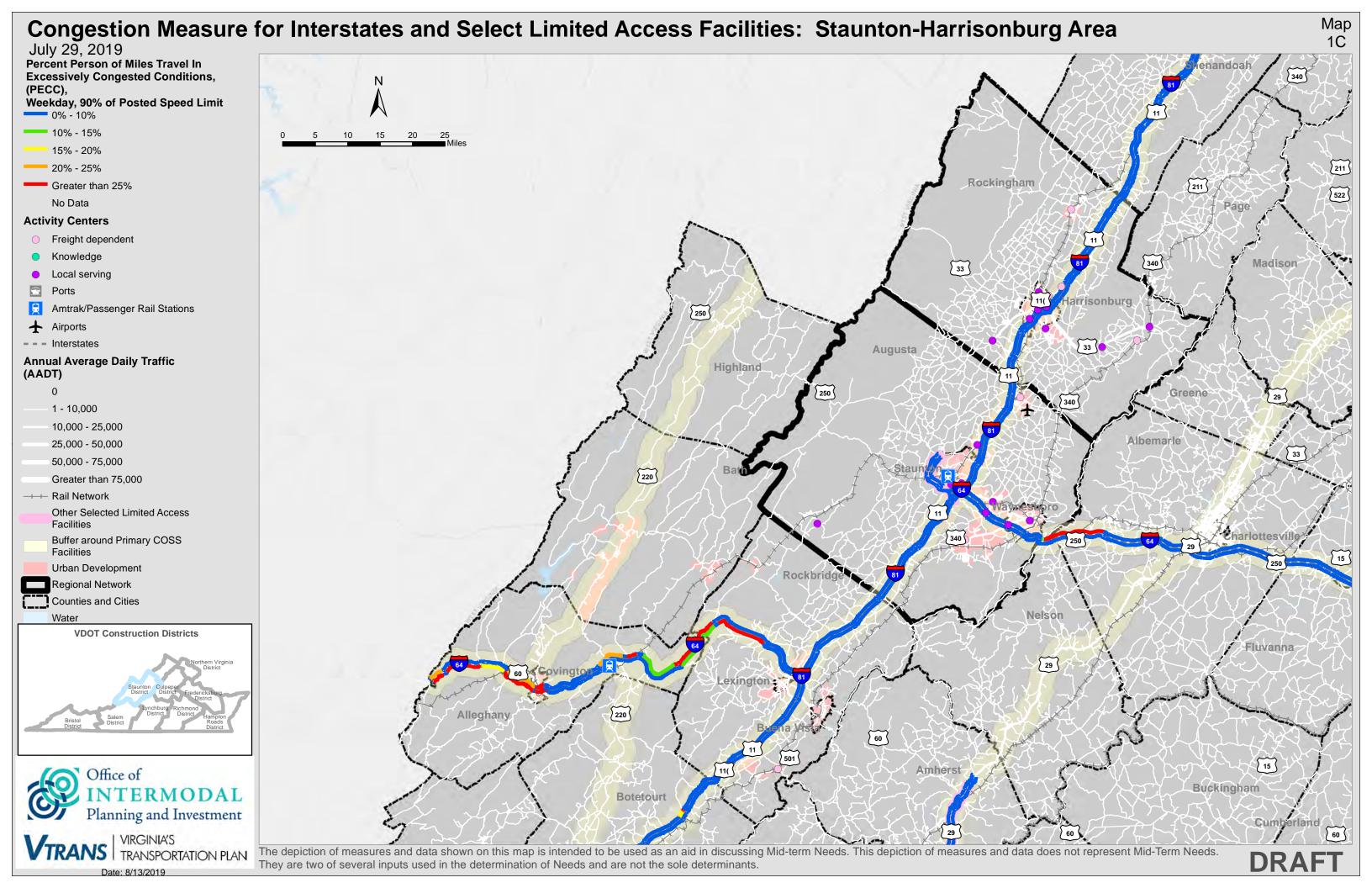


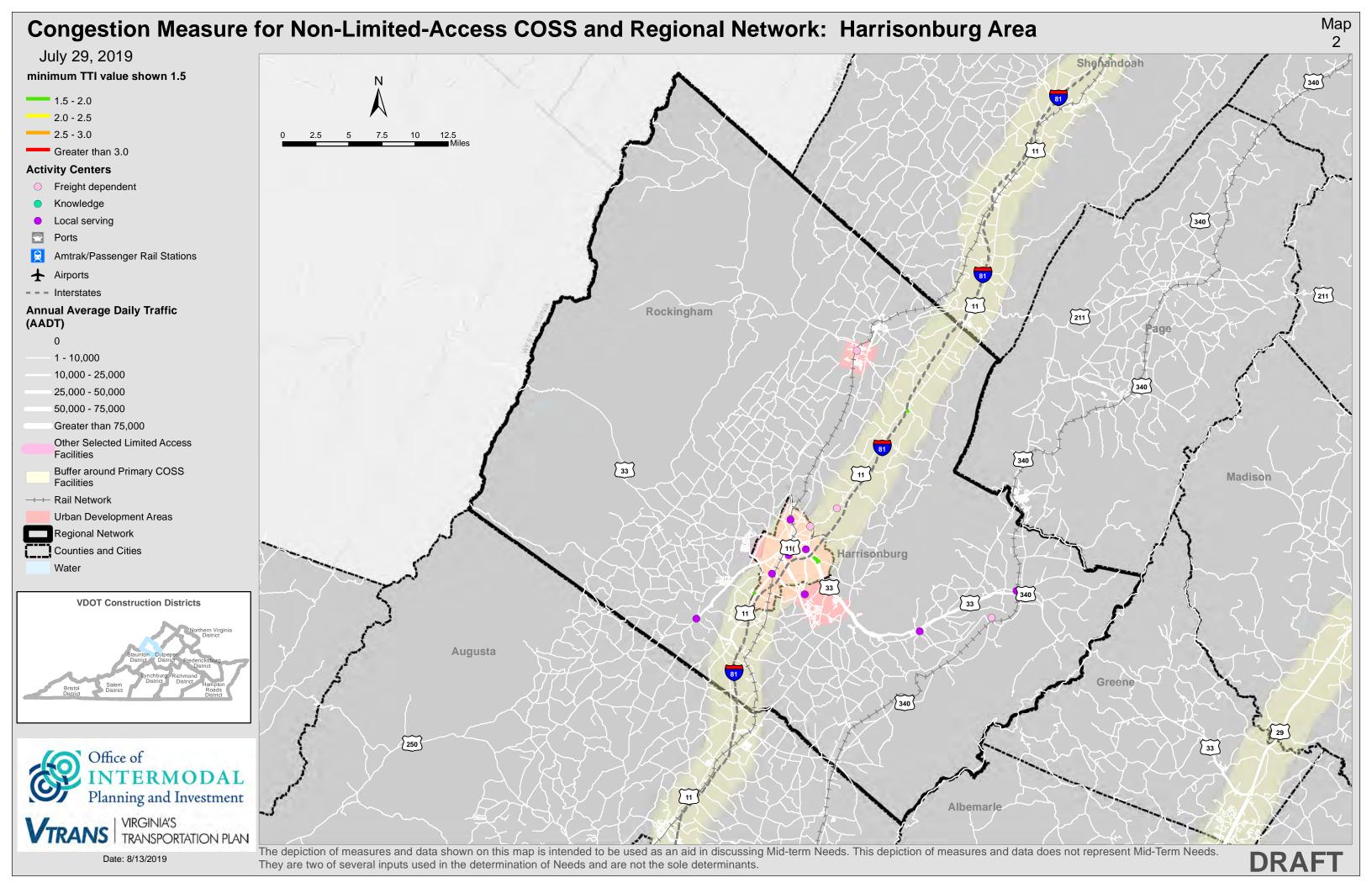


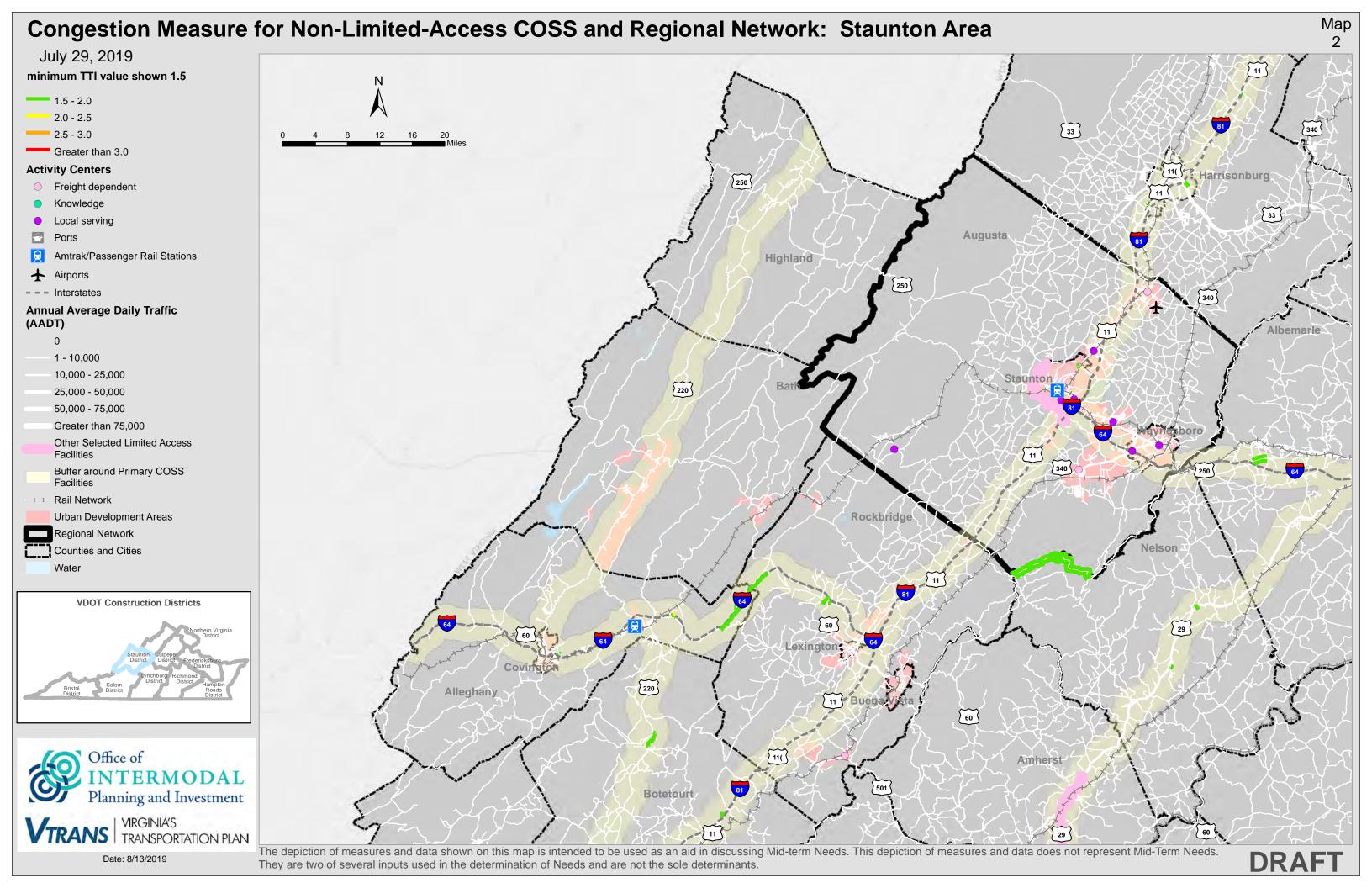


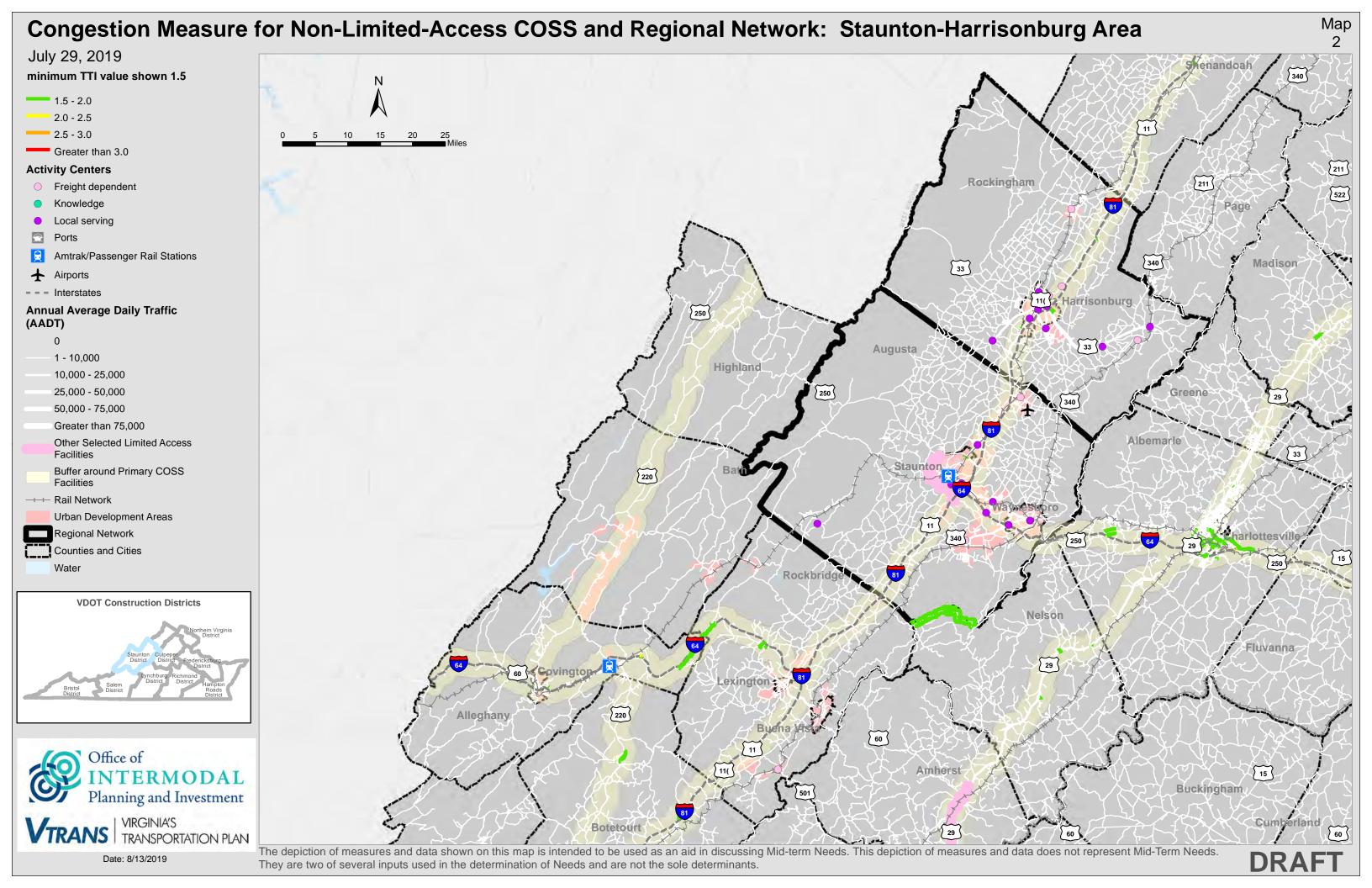


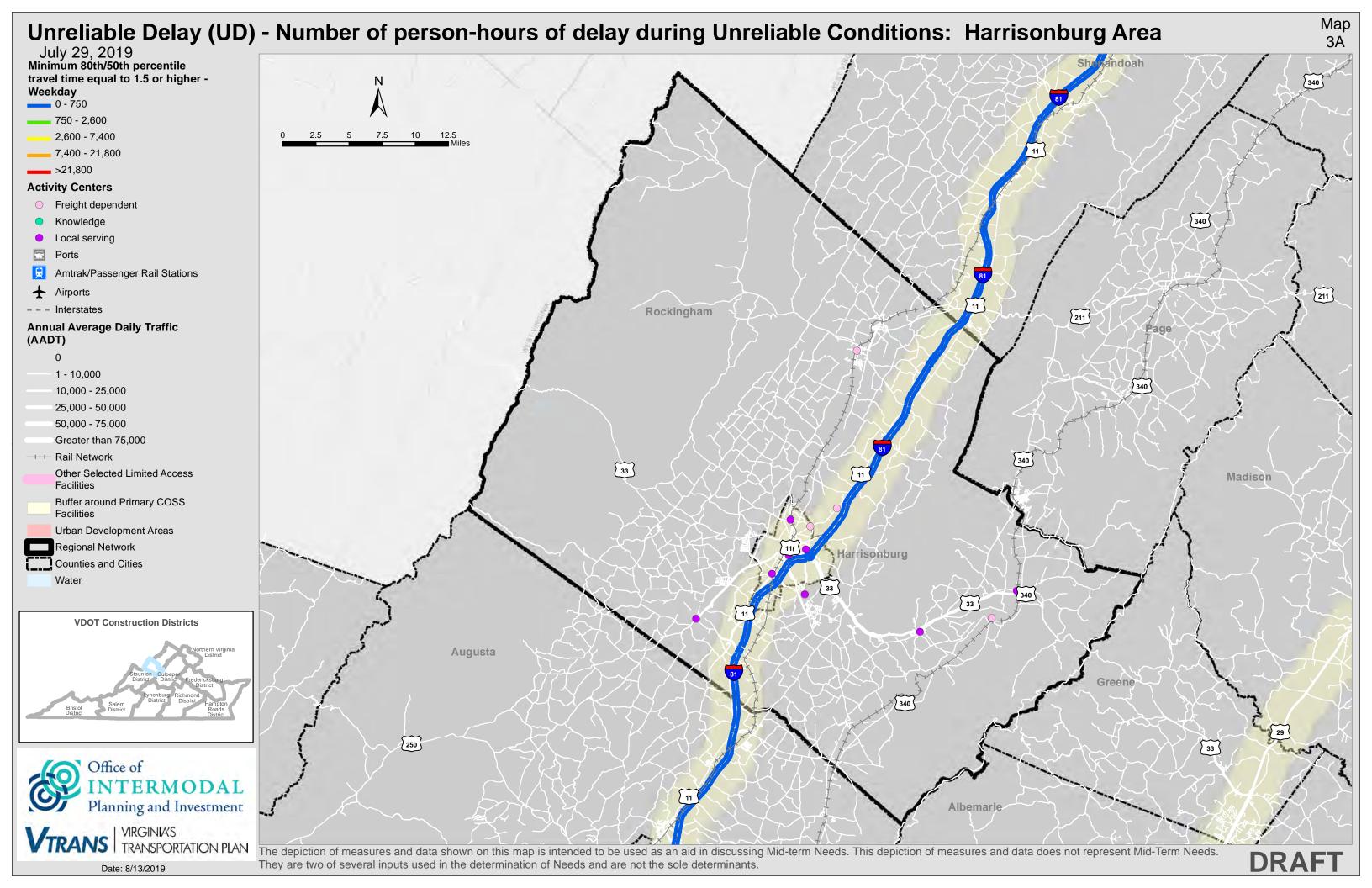


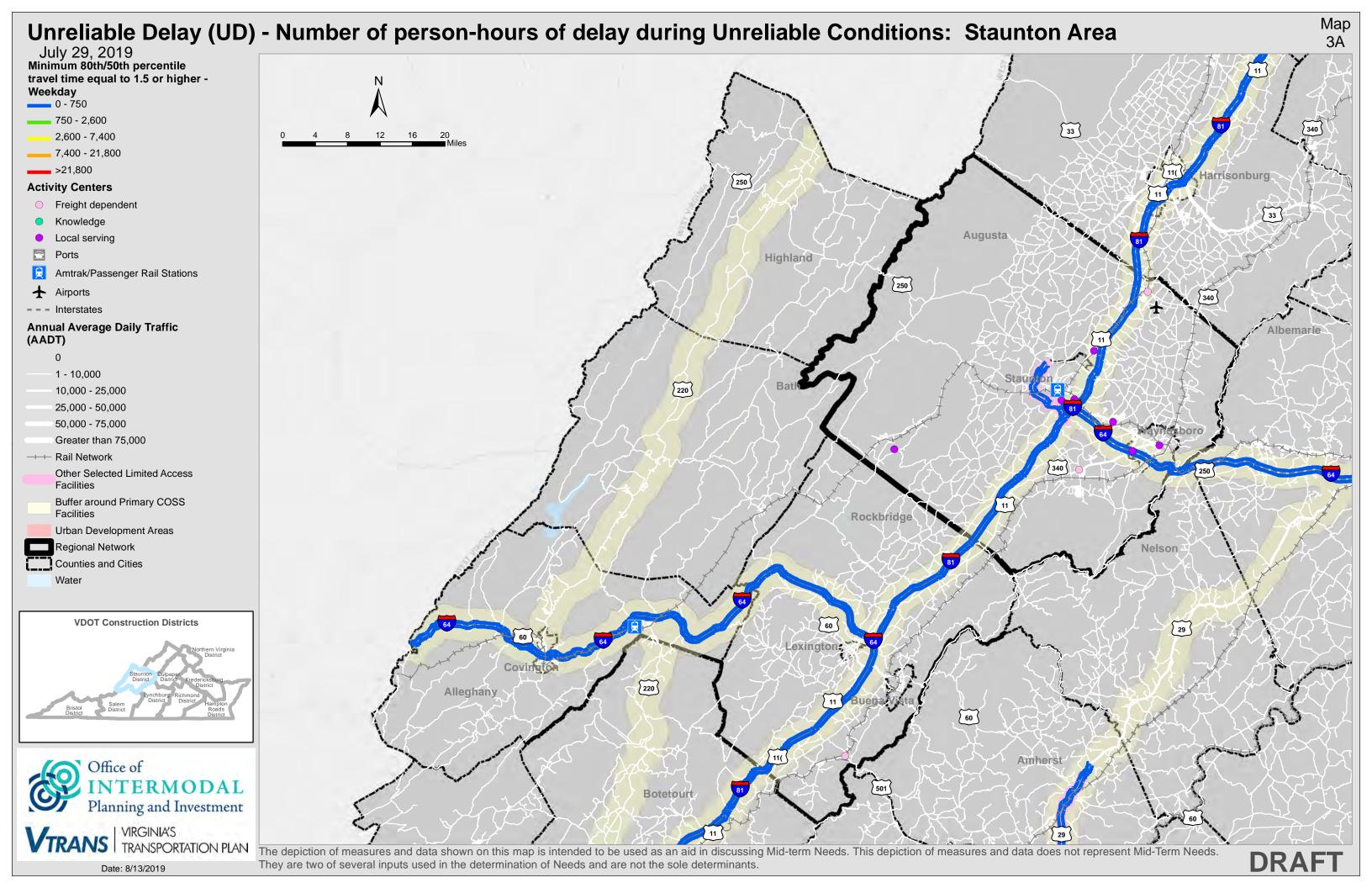


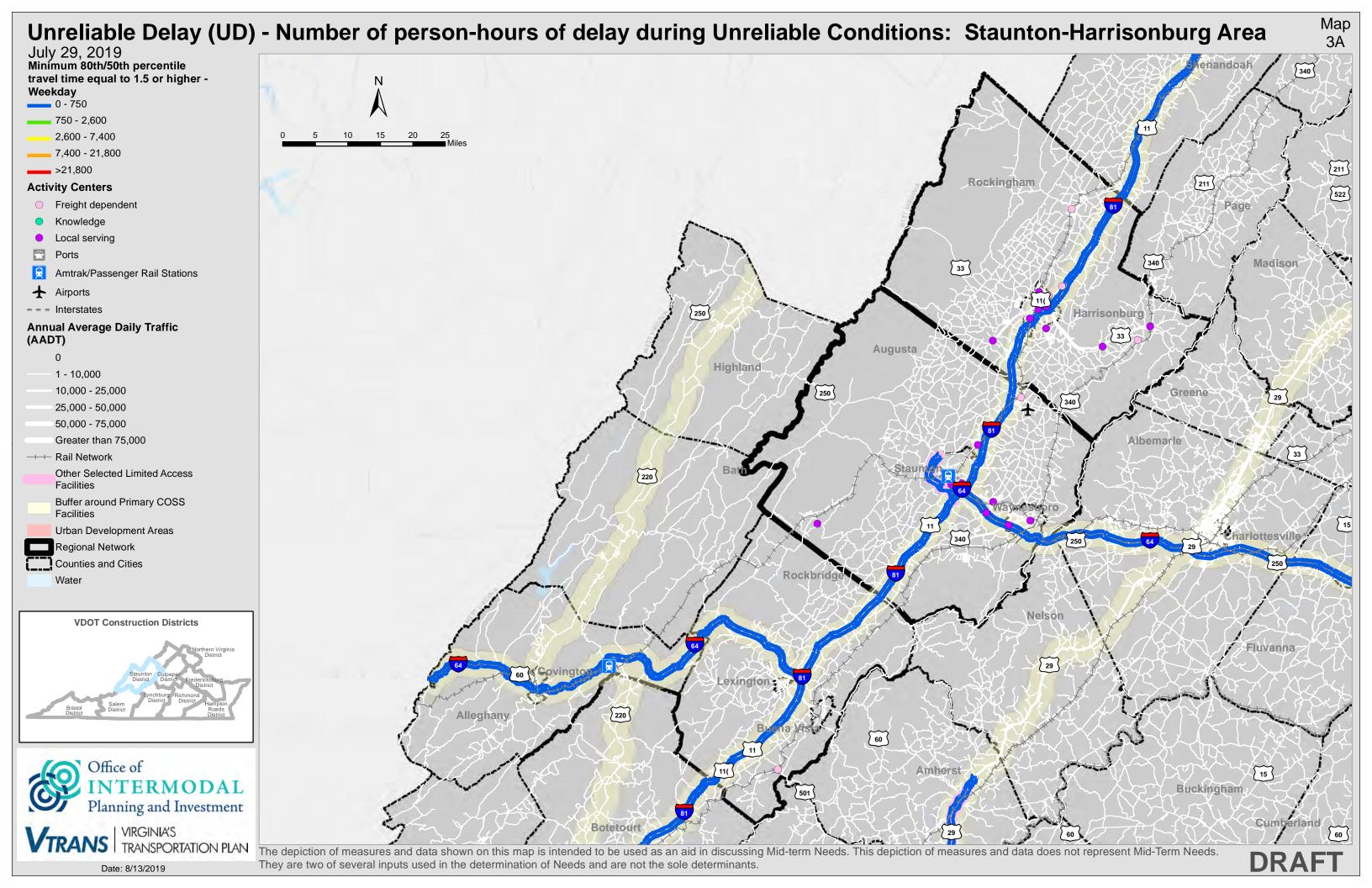


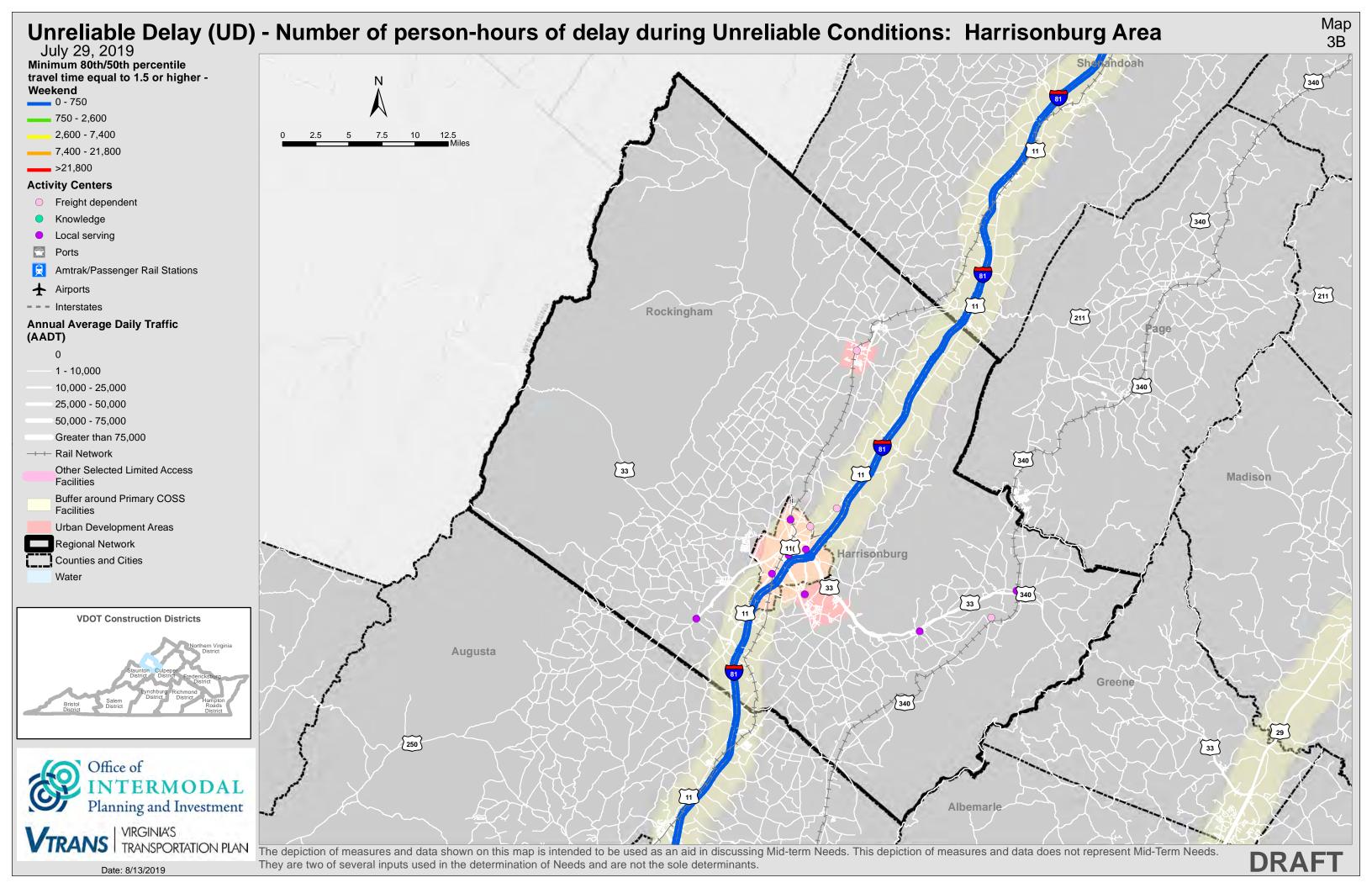


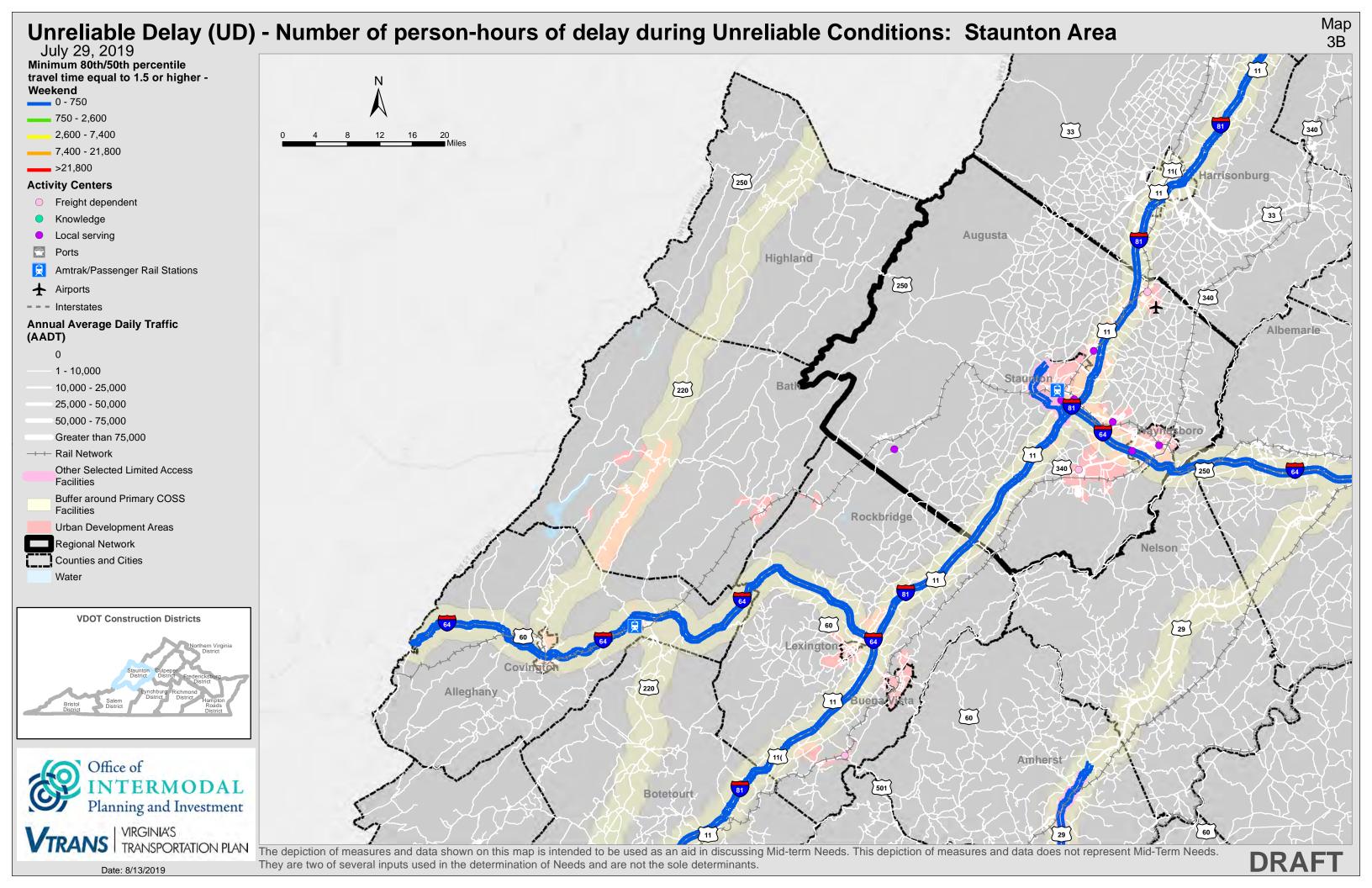


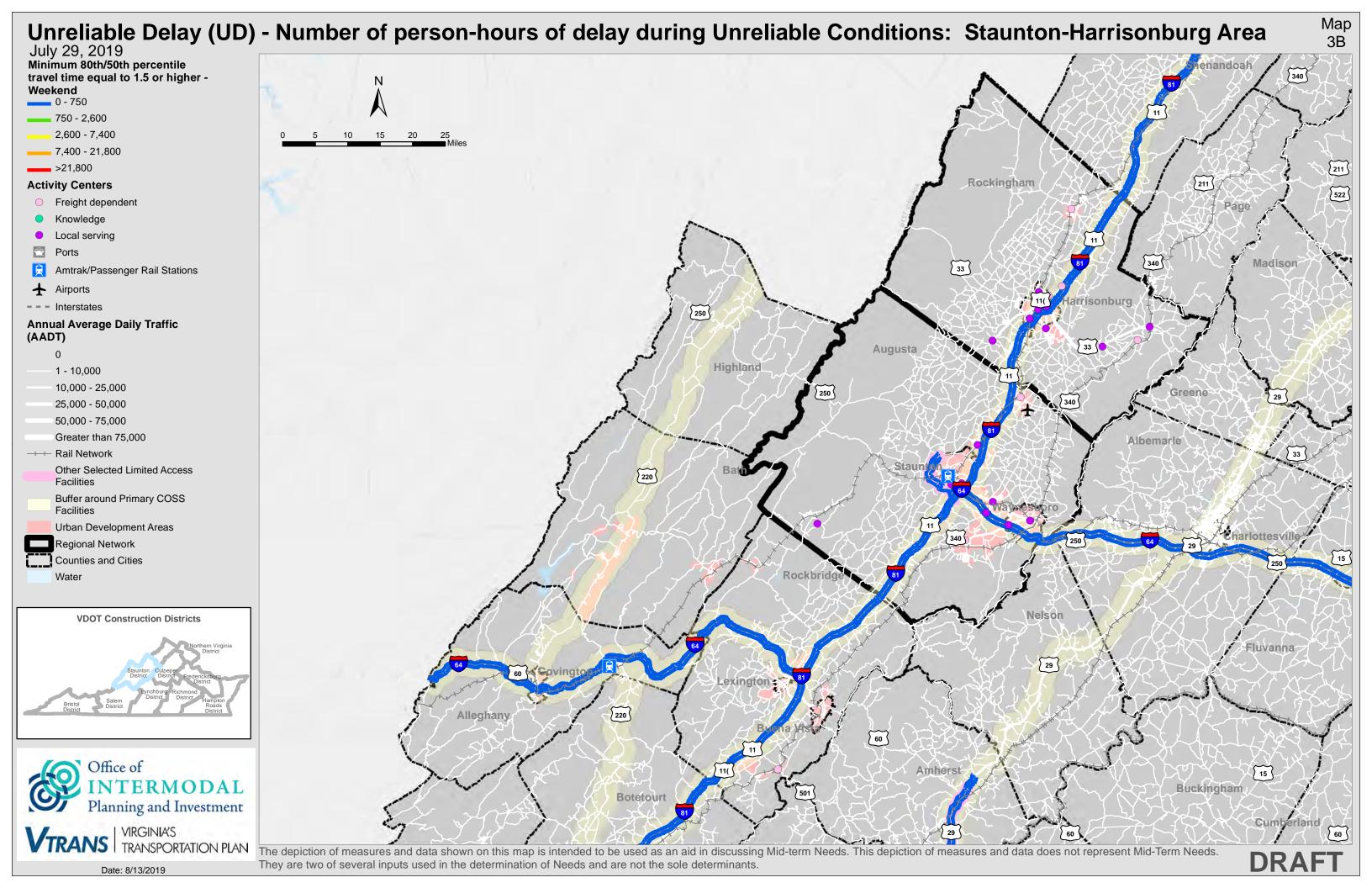


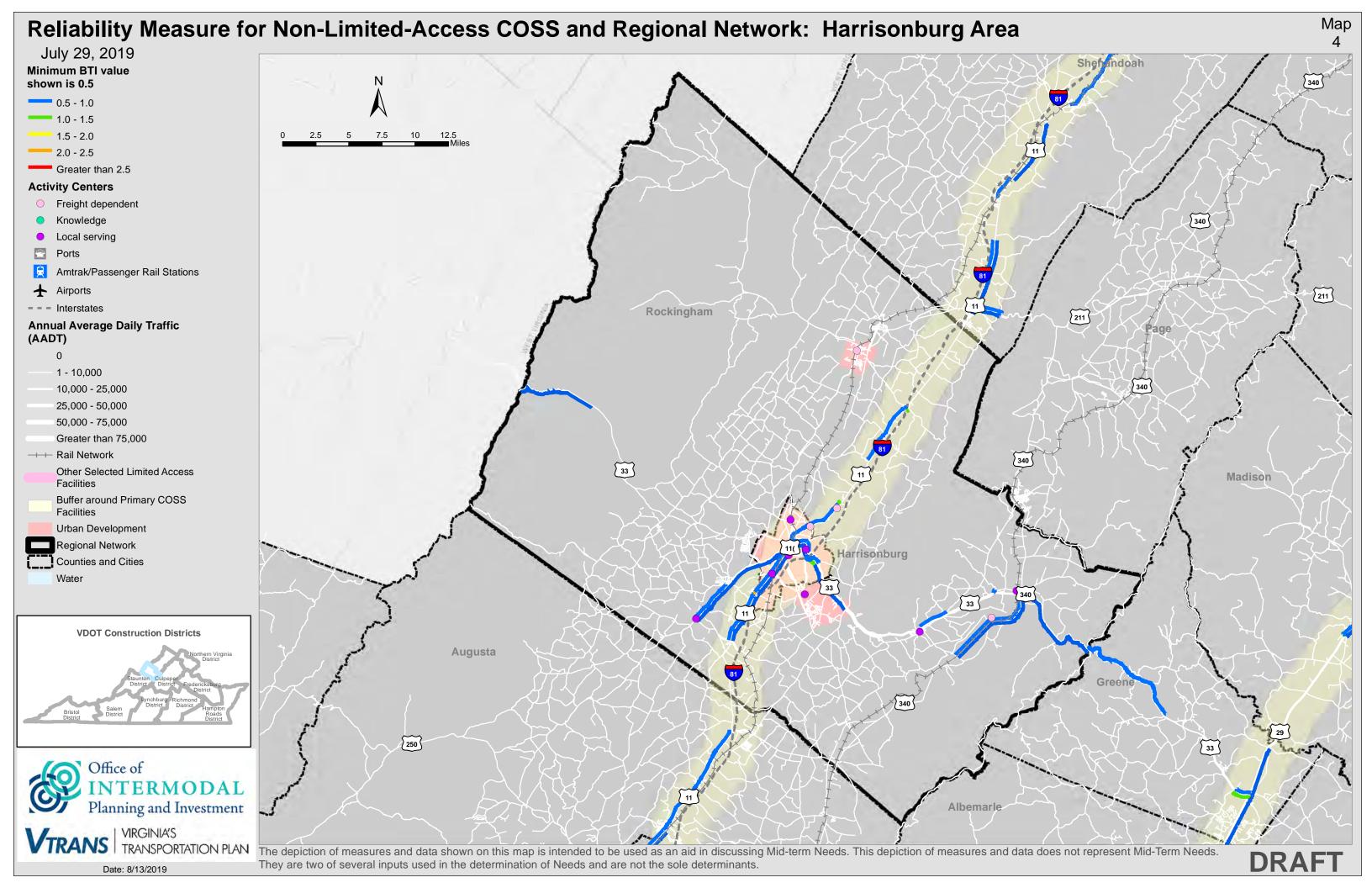






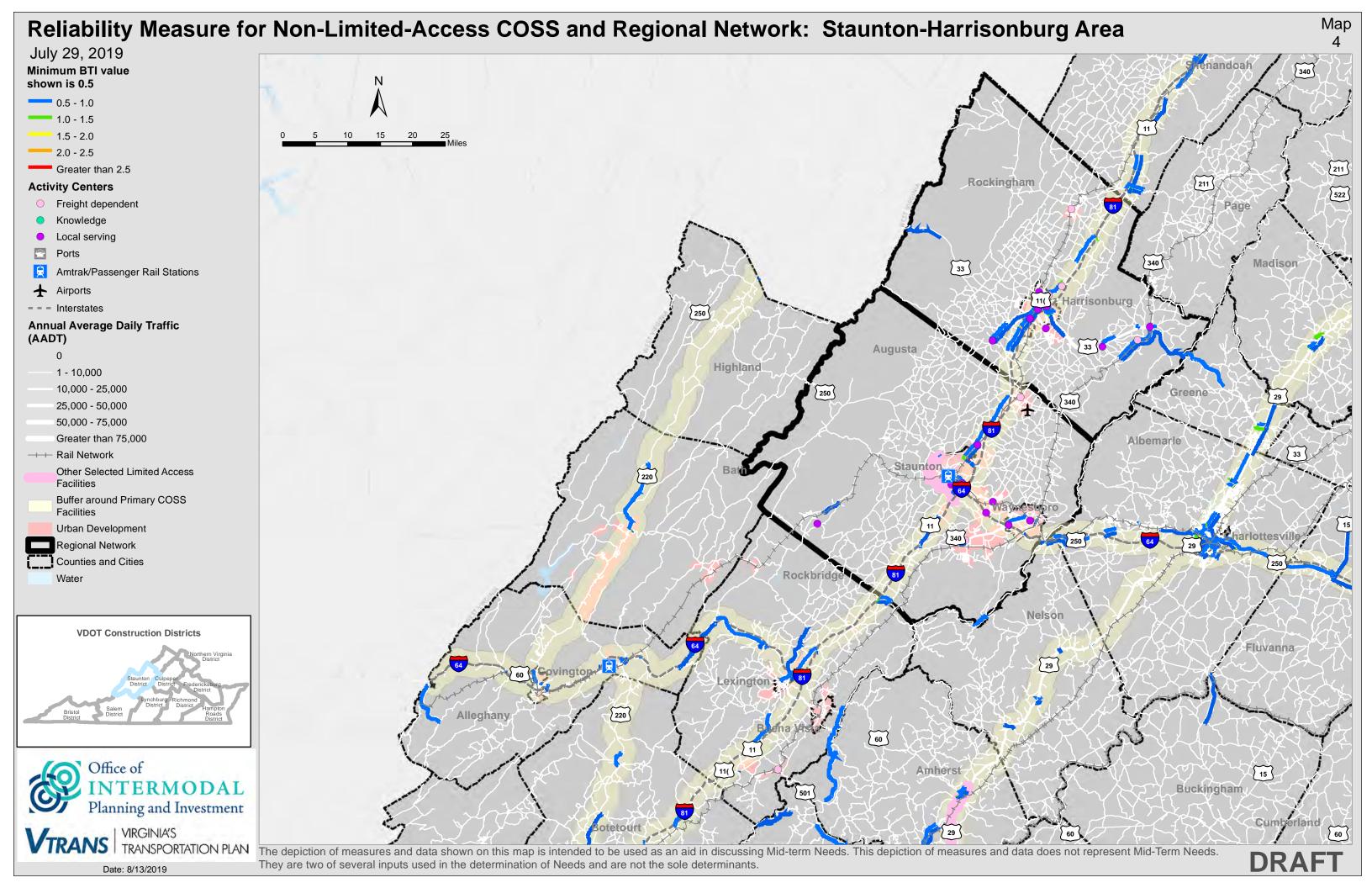






Мар Reliability Measure for Non-Limited-Access COSS and Regional Network: Staunton Area July 29, 2019 **Minimum BTI value** shown is 0.5 0.5 - 1.0 1.0 - 1.5 1.5 - 2.0 2.0 - 2.5 Greater than 2.5 250 **Activity Centers** Freight dependent Knowledge Augusta Local serving Ports Highland Amtrak/Passenger Rail Stations **★** Airports - - - Interstates **Annual Average Daily Traffic Albemarle** (AADT) 1 - 10,000 10,000 - 25,000 25,000 - 50,000 50,000 - 75,000 Greater than 75,000 ---- Rail Network Other Selected Limited Access **Buffer around Primary COSS** Rockbridge **Urban Development** Regional Network Counties and Cities Water 29 **VDOT Construction Districts** Covingtor 220 Alleghany 60 [11() **Amherst** Office of INTERMODAL **Botetourt** Planning and Investment VIRGINIA'S
TRANSPORTATION PLAN
The depiction of measures and data shown on this map is intended to be used as an aid in discussing Mid-term Needs. This depiction of measures and data does not represent Mid-Term Needs.

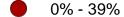
The depiction of measures and data does not represent Mid-Term Needs. **DRAFT** Date: 8/13/2019



Amtrak On Time Rail Performance Averages 2018



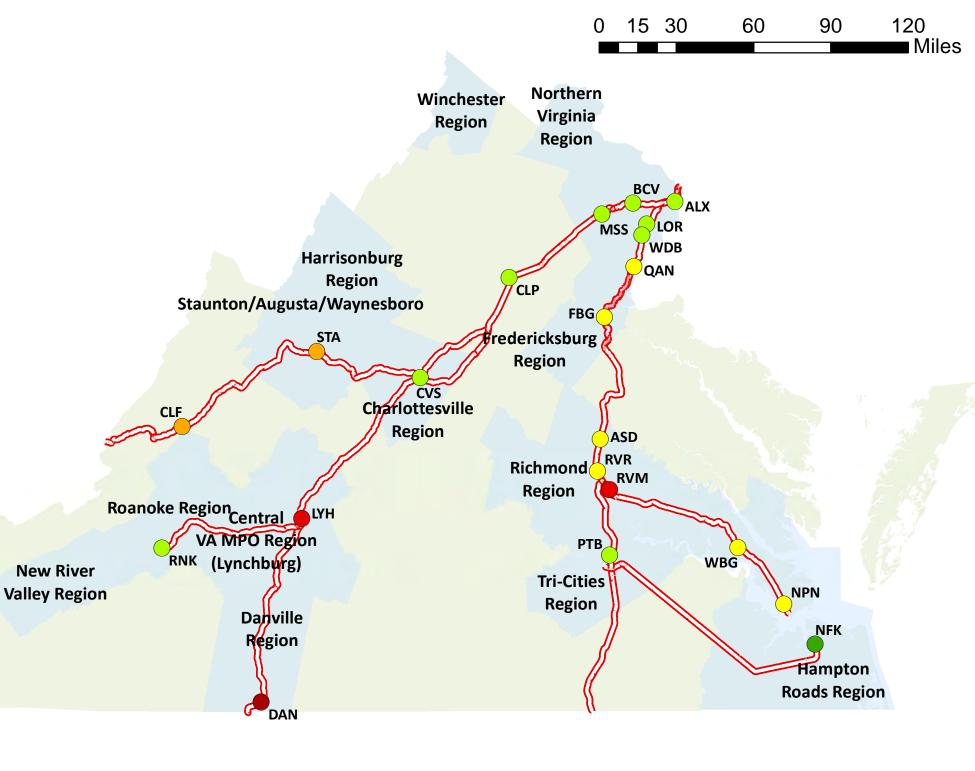
Amtrak Station (Average On-Time Performance)



- 40% 49%
- **50% 59%**
- 60% 69%
- 70% 79%
- 80% 85%

Amtrak Routes

Regional Networks



Kingsport Region Bristol Region

Virginia Railway Express On-Time Performance **VRE Stations VRE Routes Amtrak Routes Regional Networks** L'Enfant **Union Station** Northern **Crystal City** Virginia **Backlick** Region **Burke Center Road** Alexandria **Rolling Road** Manassas Park Franconia/Springfield • Average on-time performance has declined since FY 2013 by 7 percentage points to 89% • The 15-year average on-time performance for VRE is also 89%. Lorton **Broad** • FY 2018 on-time performance exceeds the average in nine of the past 15 years. **Run/Airport** • VRE's on-time performance goal is 90%. (Source: VRE on time performance "key metrics" for February 2018) Woodbridge Average VRE On-Time Performance by Line ■ Fredericksburg Line ■ Manassas Line - Average Rippon 100% Potomac / 95% VRE Goal: 90% Shores 90% 85% Percent On-Time Quantico 80% 75% 70% 65% **Fredericksburg** Harrisonburg 60% Region Region 55% Brooke 50% FY 2010 FY 2011 FY 2013 FY 2014 FY 2015 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 **Leeland Road** Fredericksburg **Fiscal Year Spotsylvania** Charlottesville 26 0 3.25 6.5 19.5 Region

Map Accessibility to Activity Centers: Regional Workshop - Harrisonburg Area July 29, 2019 Shenandoah 340 **Transit Access Deficit to** Local-Serving and Knowledge-Based **Activity Center for Workers** Deficit levels, (high, medium, low) are relative to each region Freight-Dependent Activity Center 340 Transit Routes Ports Amtrak/Passenger Rail Stations **★** Airports 211 = = Interstates Rockingham 211 Local Roads **Annual Average Daily Traffic** (AADT) 1 - 10,000 10,000 - 25,000 25,000 - 50,000 50,000 - 75,000 Greater than 75,000 Madison → Rail Network **Buffer around Primary COSS** Facilities **Urban Development** Regional Network Harrisonburg Counties and Cities Water 33 **VDOT Construction Districts** Augusta 250 Office of INTERMODAL Planning and Investment **Albemarle** VTRANS | VIRGINIA'S TRANSPORTATION PLAN The depiction of measures and data shown on this map is intended to be used as an aid in discussing Mid-term Needs. This depiction of measures and data does not represent Mid-Term Needs. **DRAFT** Date: 8/14/2019 They are two of several inputs used in the determination of Needs and are not the sole determinants.

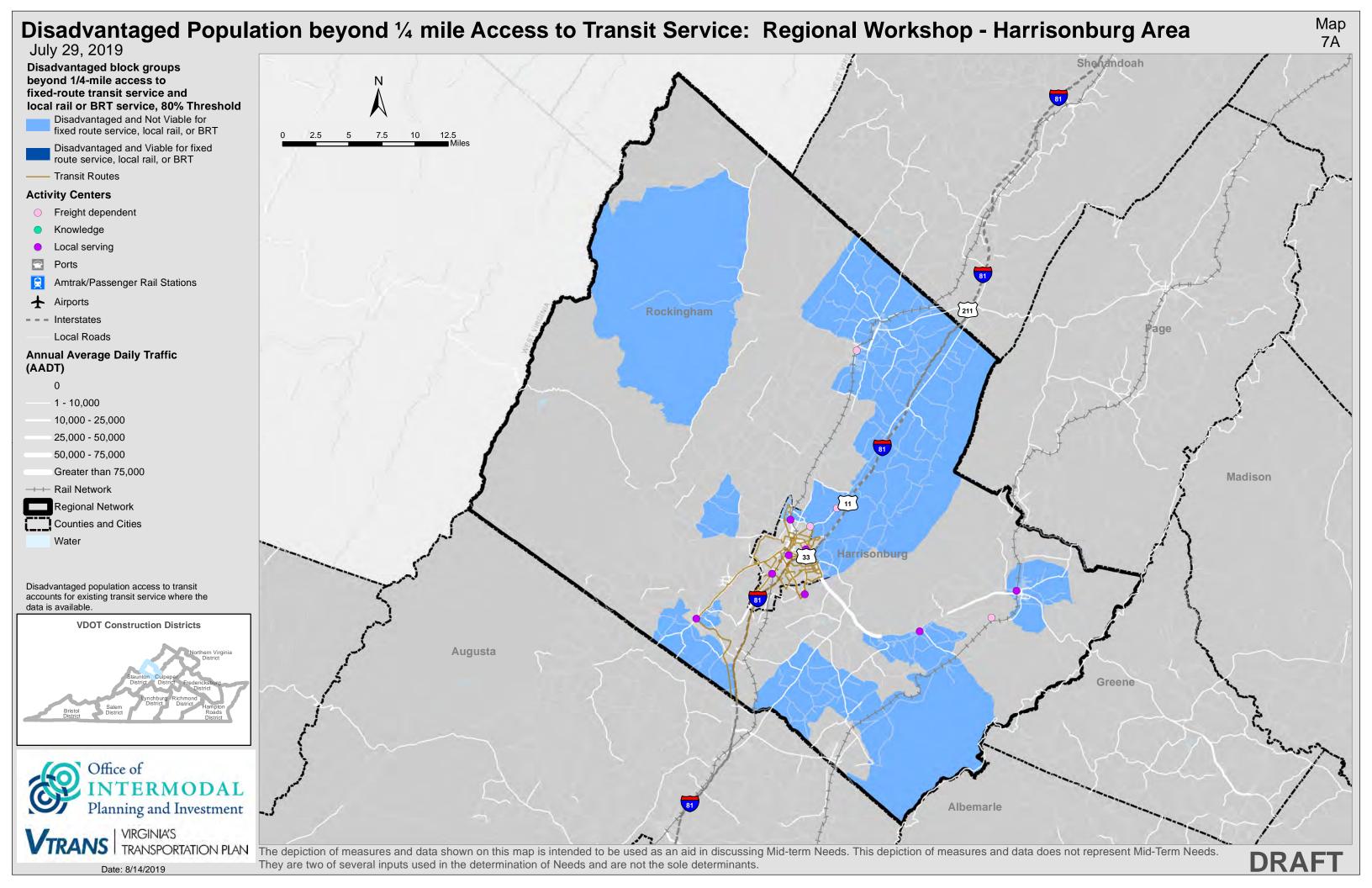
Map Accessibility to Activity Centers: Regional Workshop - Staunton Area July 29, 2019 **Transit Access Deficit to** Local-Serving and Knowledge-Based **Activity Center for Workers** Deficit levels, (high, medium, low) 33 are relative to each region Harrisonburg 250 Freight-Dependent Activity Center 33 Transit Routes Augusta Ports Highland Amtrak/Passenger Rail Stations **★** Airports = = Interstates Local Roads **Albemarle Annual Average Daily Traffic** (AADT) 220 1 - 10,000 10,000 - 25,000 25,000 - 50,000 50,000 - 75,000 Greater than 75,000 340 → Rail Network **Buffer around Primary COSS** Facilities Rockbridge **Urban Development** Regional Network Counties and Cities Water **VDOT Construction Districts 60** 29 Lexington Covington 220 **Alleghany** Office of [11() **Amherst** INTERMODAL Planning and Investment **Botetourt** VTRANS | VIRGINIA'S TRANSPORTATION PLAN

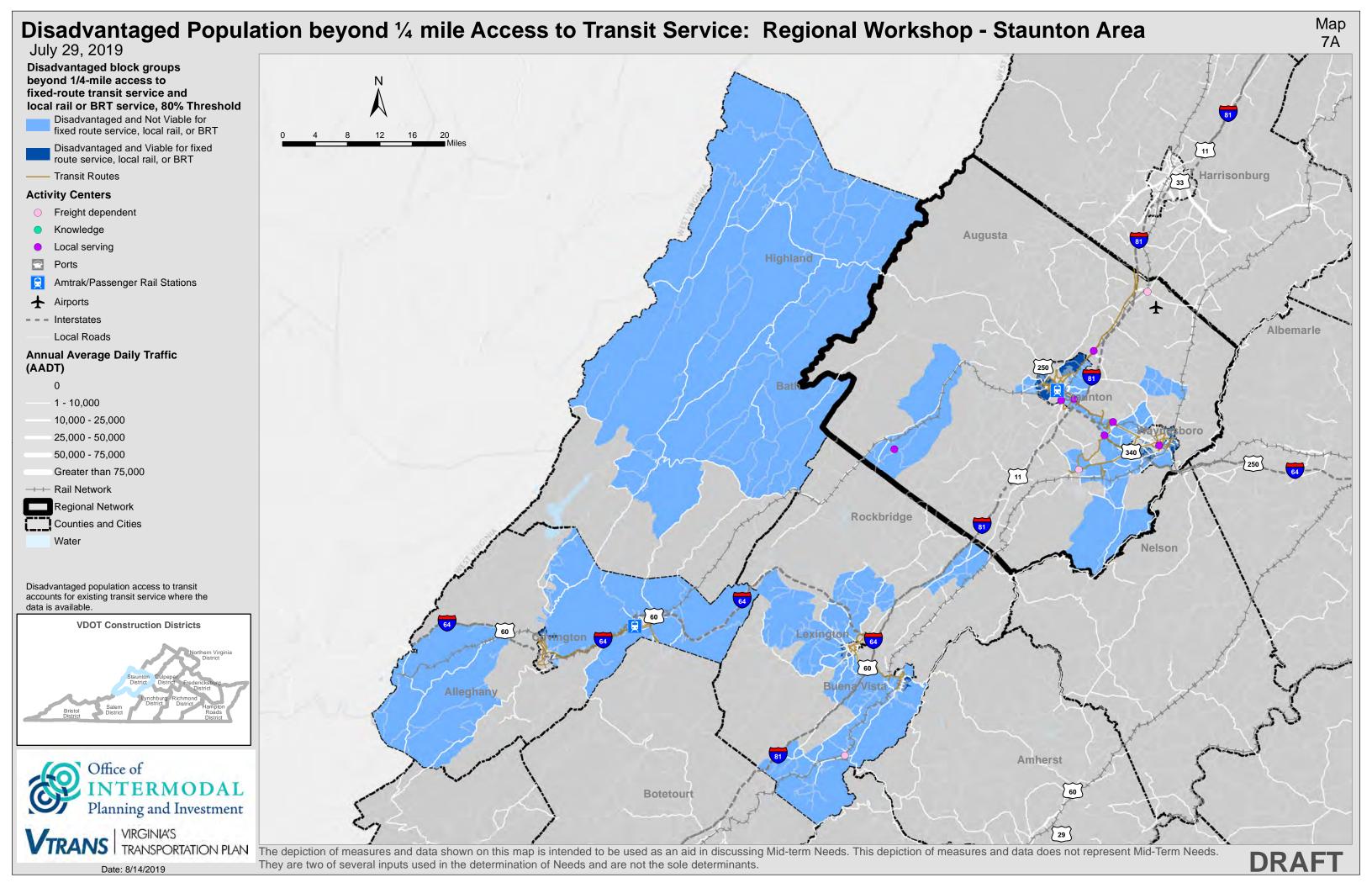
Date: 8/14/2019

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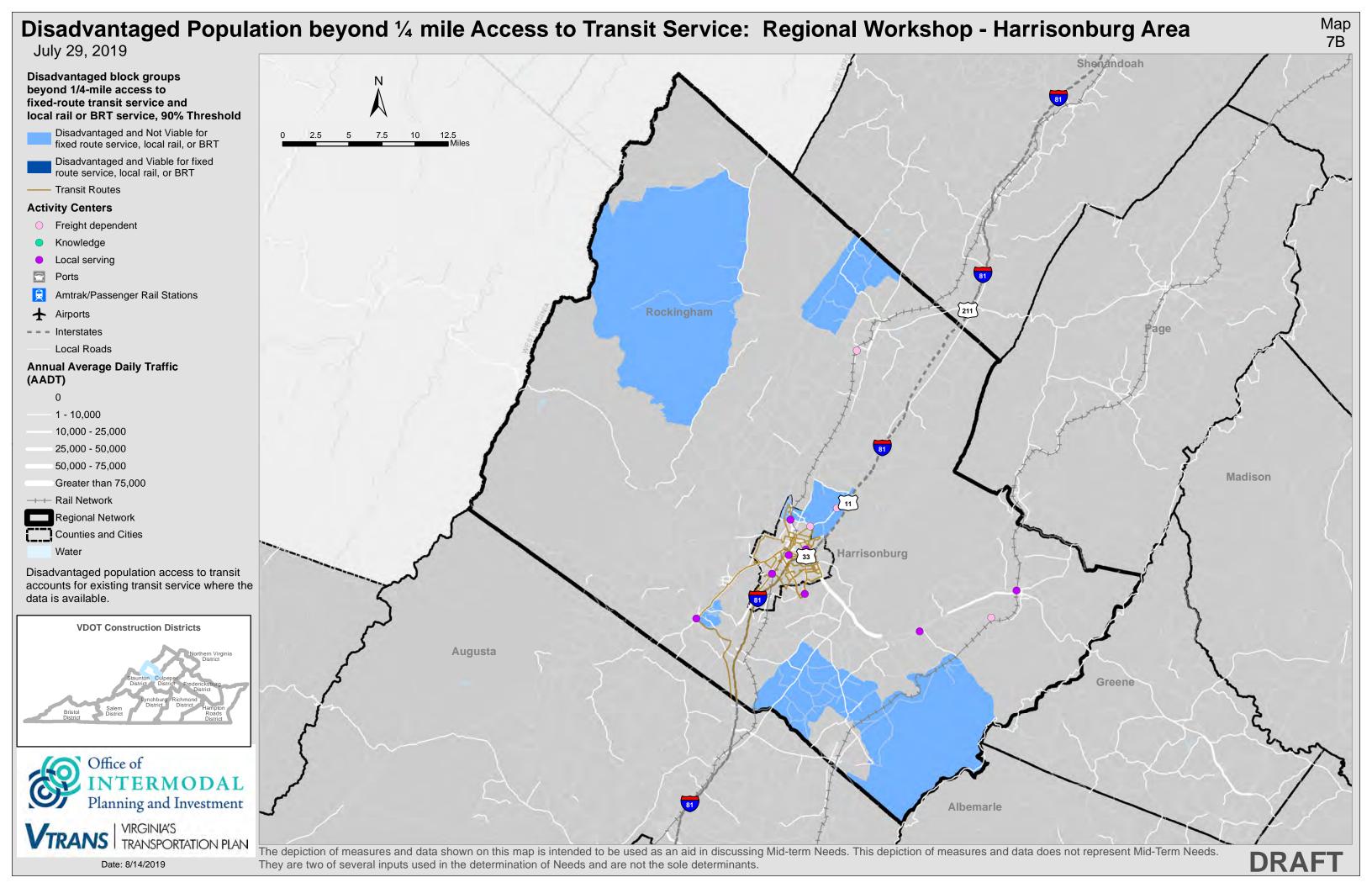
Map Accessibility to Activity Centers: Regional Workshop - Staunton-Harrisonburg Area July 29, 2019 **Transit Access Deficit to** Local-Serving and Knowledge-Based **Activity Center for Workers** Deficit levels, (high, medium, low) are relative to each region Rockingham 211 522 Freight-Dependent Activity Center Transit Routes Ports Madison [33] Amtrak/Passenger Rail Stations **★** Airports = = Interstates 250 Harrisonburg Local Roads 33 **Annual Average Daily Traffic** Augusta (AADT) Highland 1 - 10,000 Greene 10,000 - 25,000 25,000 - 50,000 **Albemarle** 50,000 - 75,000 Greater than 75,000 220 → Rail Network **Buffer around Primary COSS** Facilities **Urban Development** Regional Network Counties and Cities Water Rockbridg **VDOT Construction Districts** Nelson Fluvanna [29] Lexington [220] Alleghany **60** Office of INTERMODAL **Amherst** Planning and Investment Buckingham Botetourt VTRANS | VIRGINIA'S TRANSPORTATION PLAN The depiction of measures and data shown on this map is intended to be used as an aid in discussing Mid-term Needs. This depiction of measures and data does not represent Mid-Term Needs. Date: 8/14/2019 They are two of several inputs used in the determination of Needs and are not the sole determinants.





Map Disadvantaged Population beyond ¼ mile Access to Transit Service: Regional Workshop - Staunton-Harrisonburg Area July 29, 2019 **Disadvantaged block groups** beyond 1/4-mile access to fixed-route transit service and local rail or BRT service, 80% Threshold Disadvantaged and Not Viable for fixed route service, local rail, or BRT Disadvantaged and Viable for fixed route service, local rail, or BRT Transit Routes Rockingham **Activity Centers** Freight dependent Knowledge Local serving Madison Ports Amtrak/Passenger Rail Stations - - - Interstates Local Roads Augusta **Annual Average Daily Traffic** (AADT) 0 1 - 10,000 10,000 - 25,000 25,000 - 50,000 **Albemarle** 50,000 - 75,000 Greater than 75,000 ----- Rail Network Regional Network **Counties and Cities** Water Rockbridg Disadvantaged population access to transit accounts for existing transit service where the data is available. Nelson **VDOT Construction Districts** Fluvanna Lexington : Alleghany Office of **Amherst** INTERMODAL Buckingham Botetourt Planning and Investment mberland VIRGINIA'S
TRANSPORTATION PLAN
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Map Disadvantaged Population beyond ¼ mile Access to Transit Service: Regional Workshop - Staunton Area July 29, 2019 Disadvantaged block groups beyond 1/4-mile access to fixed-route transit service and local rail or BRT service, 90% Threshold Disadvantaged and Not Viable for fixed route service, local rail, or BRT Disadvantaged and Viable for fixed route service, local rail, or BRT Harrisonburg Transit Routes **Activity Centers** Freight dependent Augusta Knowledge Highland Local serving Ports Amtrak/Passenger Rail Stations **★** Airports **Albemarle** - - - Interstates Local Roads **Annual Average Daily Traffic** (AADT) 1 - 10,000 10,000 - 25,000 25,000 - 50,000 64 250 50,000 - 75,000 Greater than 75,000 ----- Rail Network Regional Network Rockbridge Counties and Cities Water Disadvantaged population access to transit accounts for existing transit service where the data is available. **VDOT Construction Districts** Lexington **Alleghany Amherst** Office of INTERMODAL **Botetourt** Planning and Investment TRANSPORTATION PLAN The depiction of measures and data shown on this map is intended to be used as an aid in discussing Mid-term Needs. This depiction of measures and data does not represent Mid-Term Needs. **DRAFT** Date: 8/14/2019 They are two of several inputs used in the determination of Needs and are not the sole determinants.

Map Disadvantaged Population beyond ¼ mile Access to Transit Service: Regional Workshop - Staunton-Harrisonburg Area July 29, 2019 **Disadvantaged block groups** beyond 1/4-mile access to fixed-route transit service and local rail or BRT service, 90% Threshold Disadvantaged and Not Viable for fixed route service, local rail, or BRT Disadvantaged and Viable for fixed route service, local rail, or BRT Transit Routes Rockingham **Activity Centers** Freight dependent Knowledge Local serving Madison Ports Amtrak/Passenger Rail Stations **★** Airports - - - Interstates Local Roads Augusta **Annual Average Daily Traffic** (AADT) 0 1 - 10,000 10,000 - 25,000 25,000 - 50,000 **Albemarle** 50,000 - 75,000 Greater than 75,000 ----- Rail Network Regional Network **Counties and Cities** Water Rockbridg Disadvantaged population access to transit accounts for existing transit service where the data is available. Nelson **VDOT Construction Districts** Fluvanna Lexington : Alleghany Office of **Amherst** INTERMODAL Buckingham **Botetourt** Planning and Investment nberland The depiction of measures and data shown on this map is intended to be used as an aid in discussing Mid-term Needs. This depiction of measures and data does not represent Mid-Term Needs. They are two of several inputs used in the determination of Needs and are not the sole determinants.

Vehicular Crashes January 2013 - April 2019: Regional Workshop - Staunton Area

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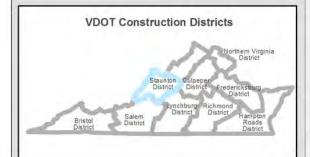
July 29, 2019

Crash Severity

- Fatal Crash
- Injury Crash

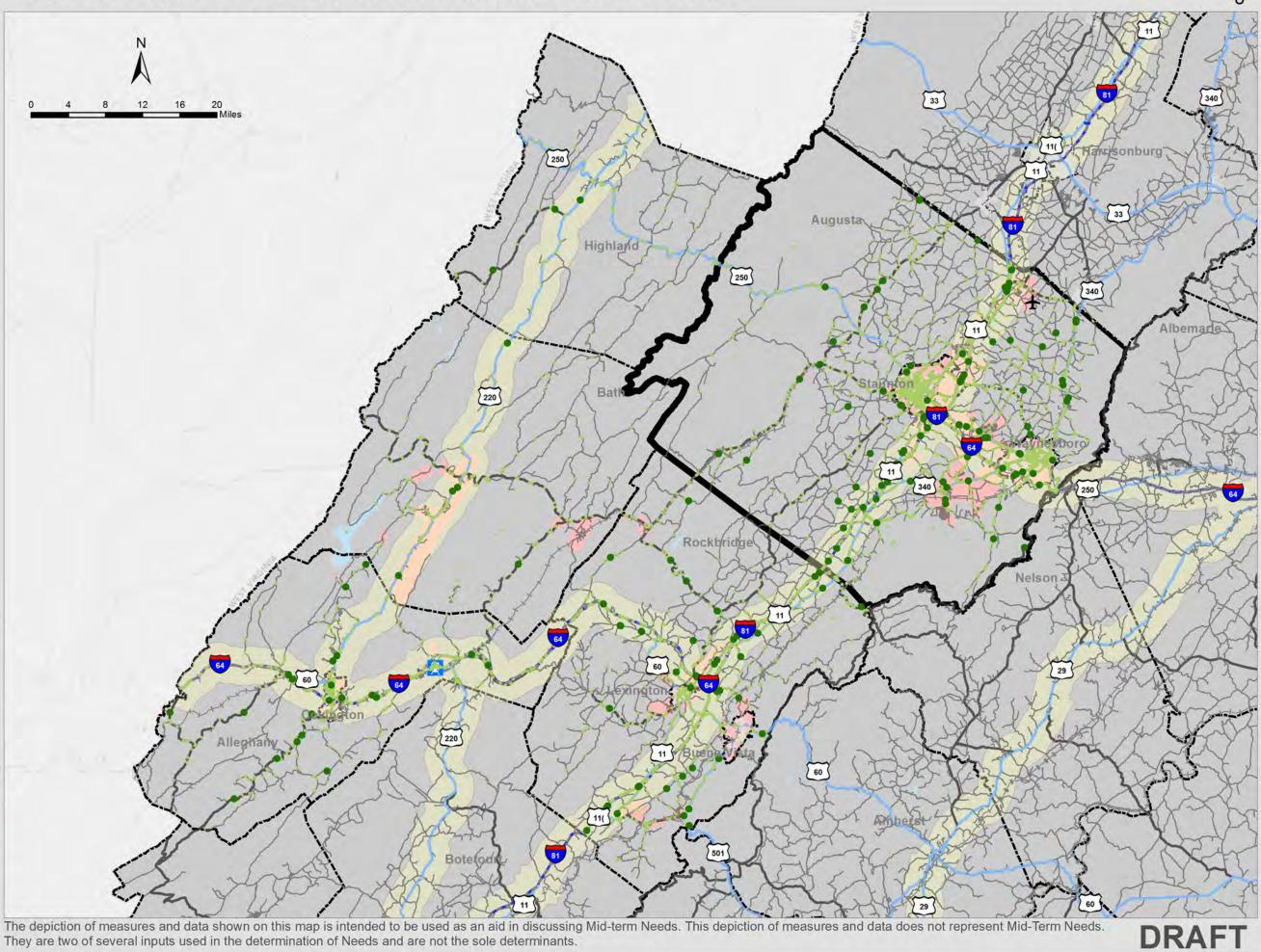
Roadway Functional Classes

- --- Interstate
- U.S. Route
- State Route
- Frontage Road Secondary Route
 - Urban Road
- Ports
- Amtrak/Passenger Rail Stations
- ---- Rail Network
 - **Buffer around Primary COSS**
 - **Urban Development Areas**
- Regional Network
- Counties and Cities
 - Water

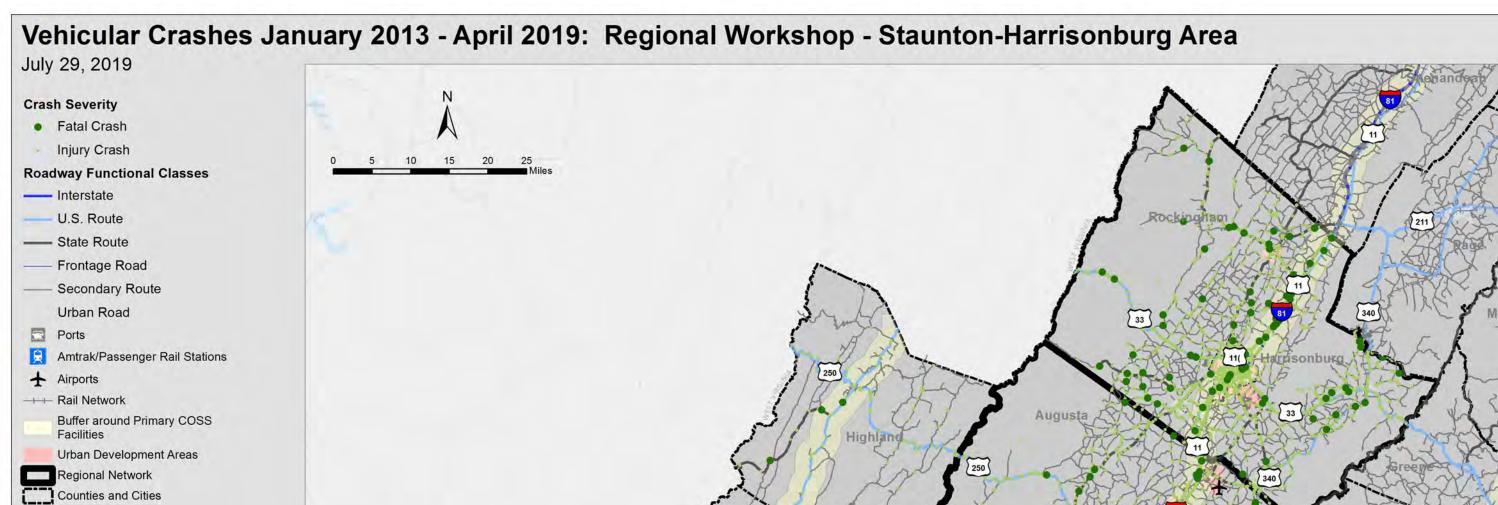


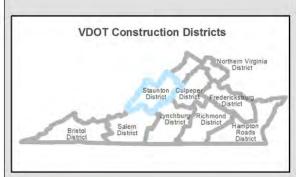


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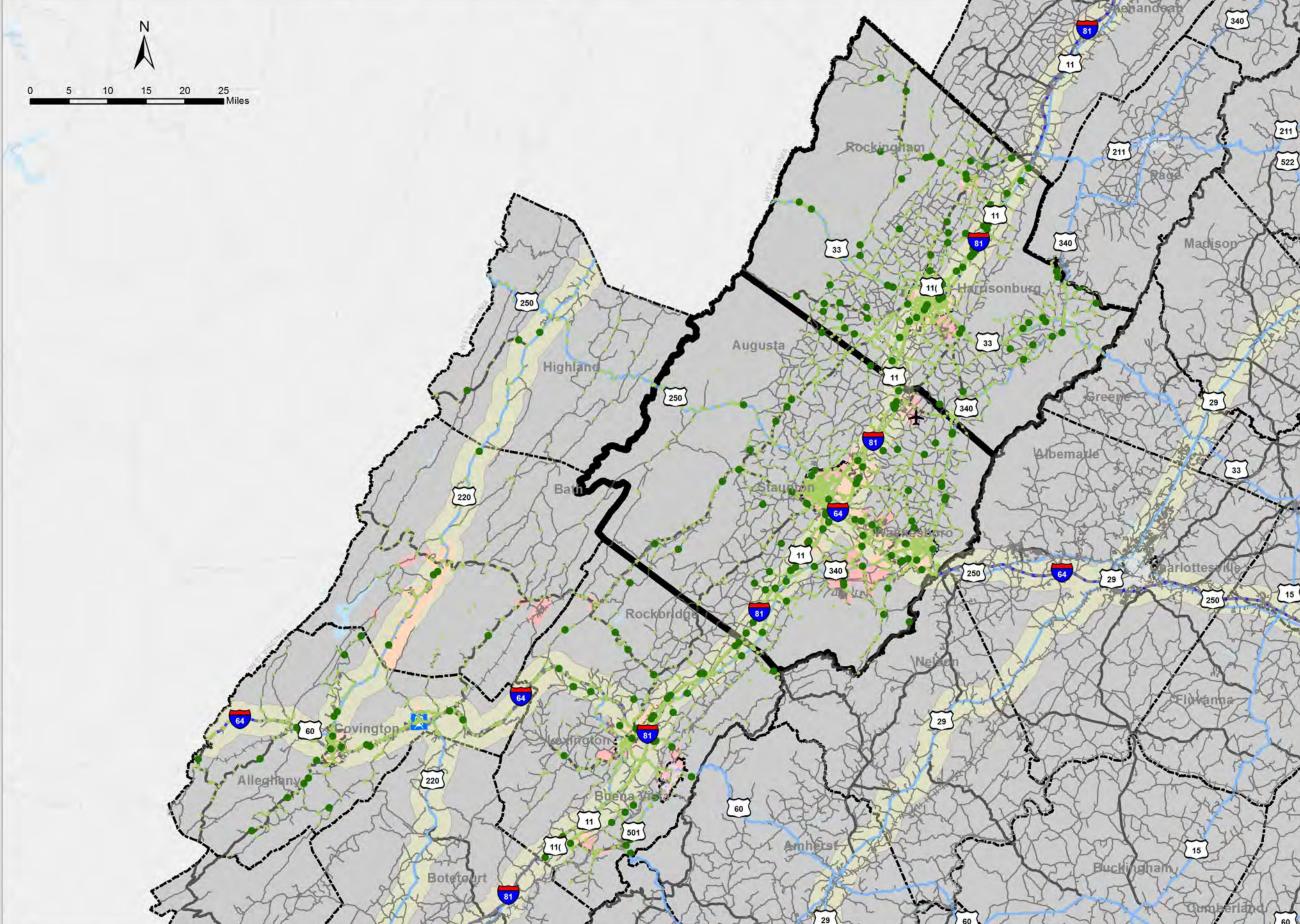
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Water





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