Regional Workshop - Northern Virginia Area August 7, 2019 **Activity Centers** Freight dependent Knowledge 10 12.5 Miles 7.5 Local serving **15** Amtrak/Passenger Rail Stations Airports Interstates 1 - 10,000 10,000 - 25,000 Loudoun 25,000 - 50,000 50,000 - 75,000 **50 Dulles Town** Greater than 75,000 <u>[15]</u> Rt 772 Other Selected Limited Access Transit Rt 28 North Facilities Rt 606 ----- Rail Network Transit Area Rt 28 South Herndon Reston Town **Urban Development Buffer around Primary COSS** [17] Facilities Regional Network **Dulles East** Tysons 7 Tysons 123 Counties and Cities Water **Fairfax** 29 Fairfax Center **VDOT Construction Districts** 29 [17] 15 Springfield ____ 29 Fort Belvoir **Fauguier** Hybla Valley City of Manassas Regional Airport Fort Belvoir 211 Prince William [15] 29 Office of Potomac INTERMODAL 17



522

Culpeper

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.

DRAFT

Regional Workshop - Northern Virginia Area East August 7, 2019 **Activity Centers** Freight dependent Knowledge 0.55 1.1 1.65 2.2 2.75 Miles Local serving

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

Other Selected Limited Access Facilities

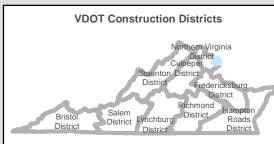
----- Rail Network

Urban Development

Buffer around Primary COSS Facilities

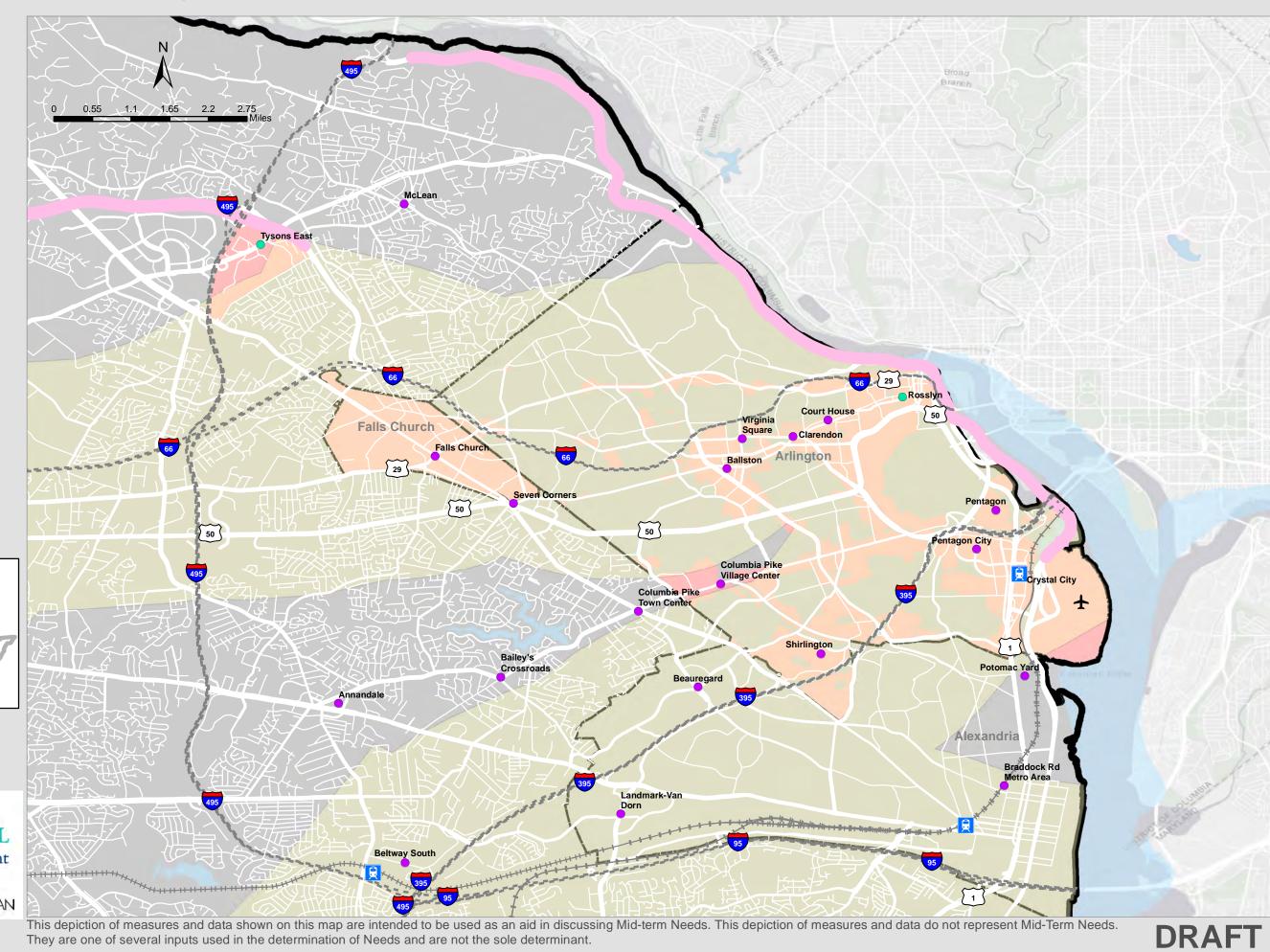
Regional Network Counties and Cities

Water





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.

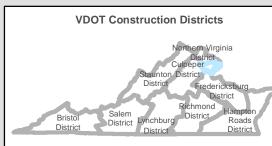
Regional Workshop - Northern Virginia Area North August 7, 2019 **Activity Centers** Freight dependent Knowledge 1.5 3 4.5 6 7.5 Miles Local serving Amtrak/Passenger Rail Stations Airports Interstates 15 1 - 10,000 10,000 - 25,000 340 25,000 - 50,000 50,000 - 75,000 Greater than 75,000 Other Selected Limited Access Facilities ----- Rail Network Leesburg [15] **Urban Development** Loudoun **Buffer around Primary COSS** Facilities Regional Network Ashburn Counties and Cities [15] **Dulles Town** Water Rt 28 Centra Rt 606 **VDOT Construction Districts** <u>50</u> Reston Town Fairfax Innovation [17] 50 Tysons 7 **Dulles East** Tysons 123 Office of **INTERMODAL** Planning and Investment [17] 29 VTRANS | VIRGINIA'S TRANSPORTATION PLAN Fairfax 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. Date: 8/13/2019 They are one of several inputs used in the determination of Needs and are not the sole determinant.

Regional Workshop - Northern Virginia Area South

August 7, 2019

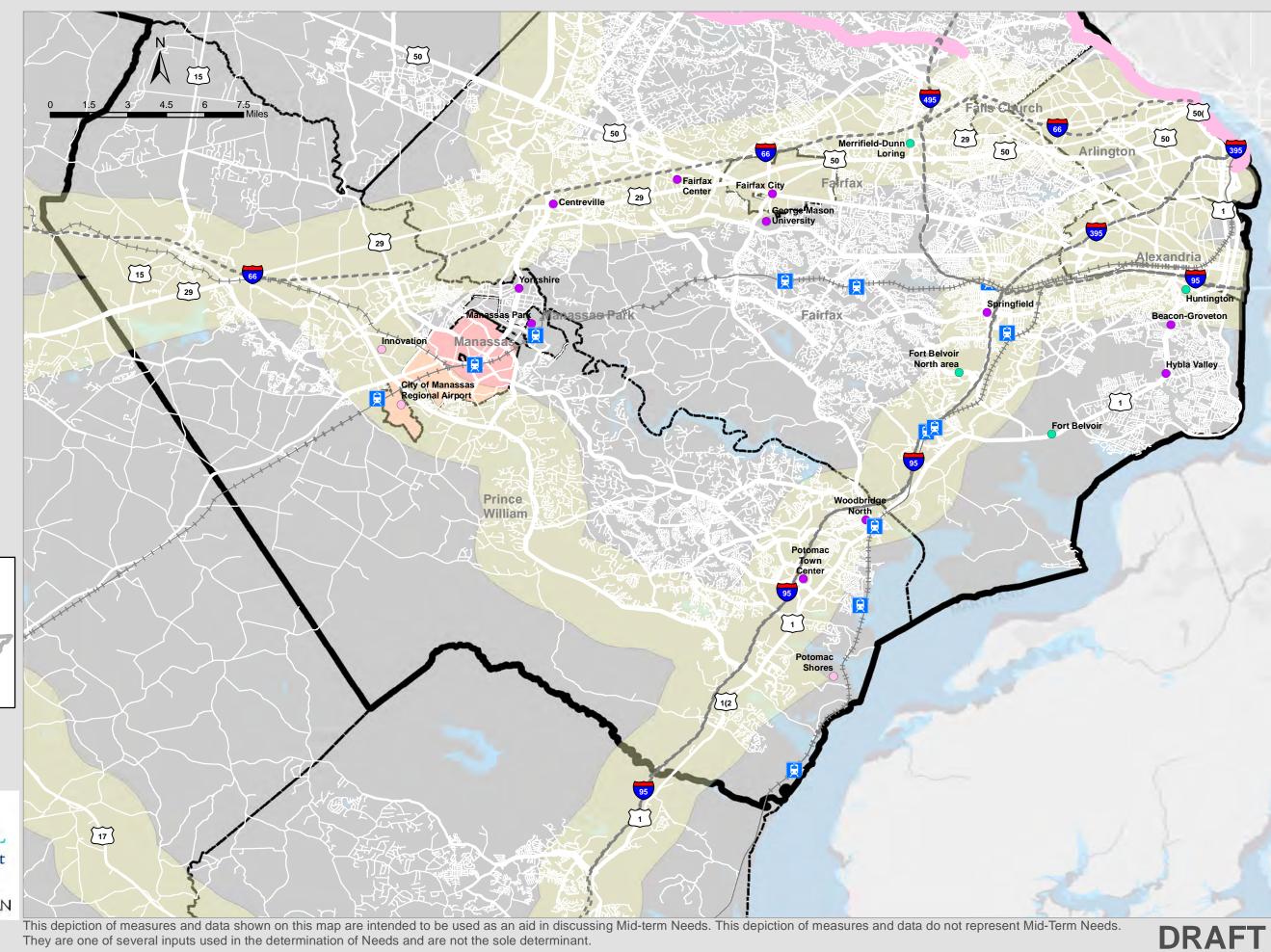
Activity Centers

- Freight dependent
- Knowledge
- Local serving
- 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
 - Other Selected Limited Access Facilities
- ----- Rail Network
- **Urban Development**
 - **Buffer around Primary COSS** Facilities
- Regional Network
 - Counties and Cities
 - Water

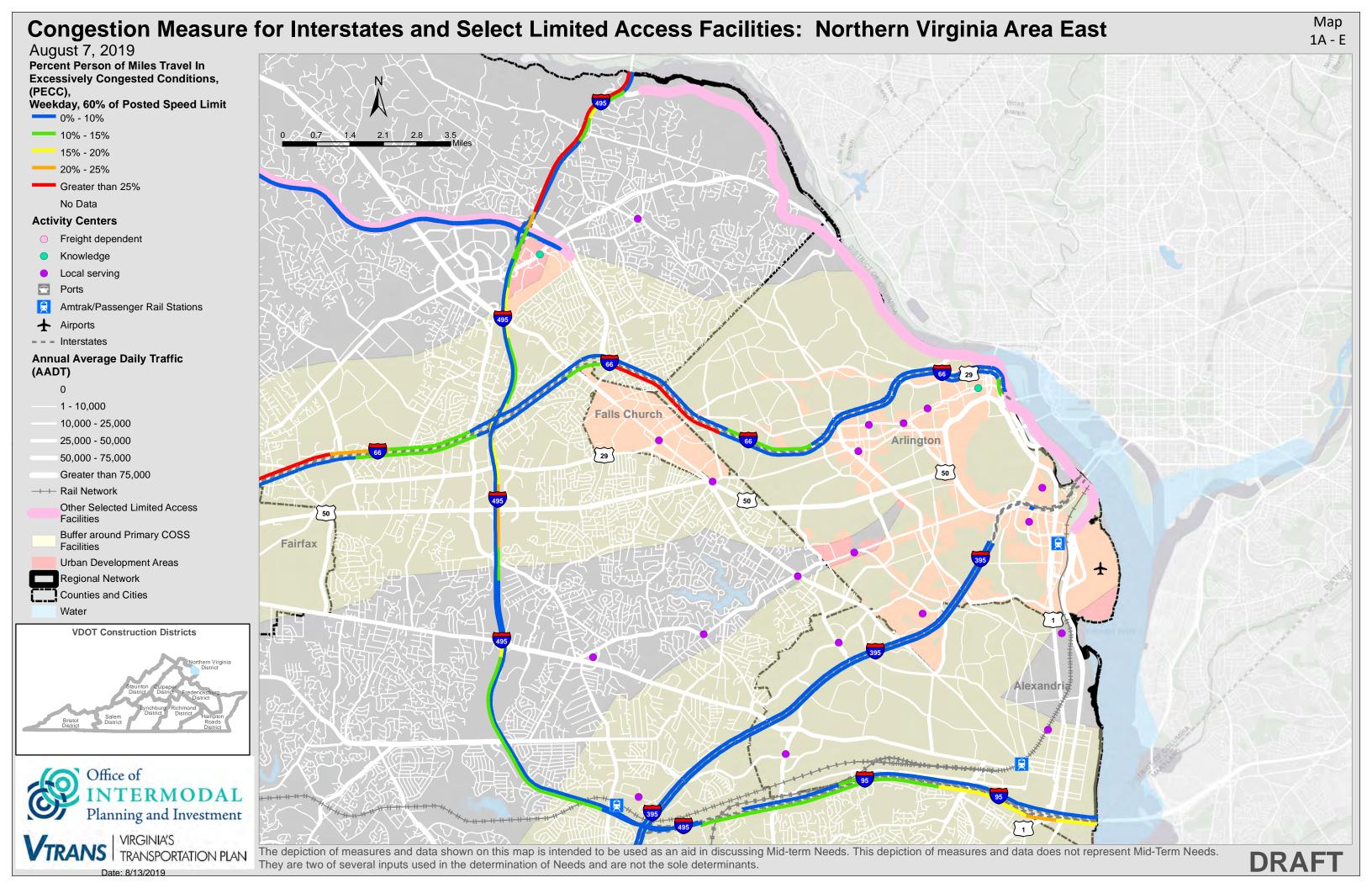


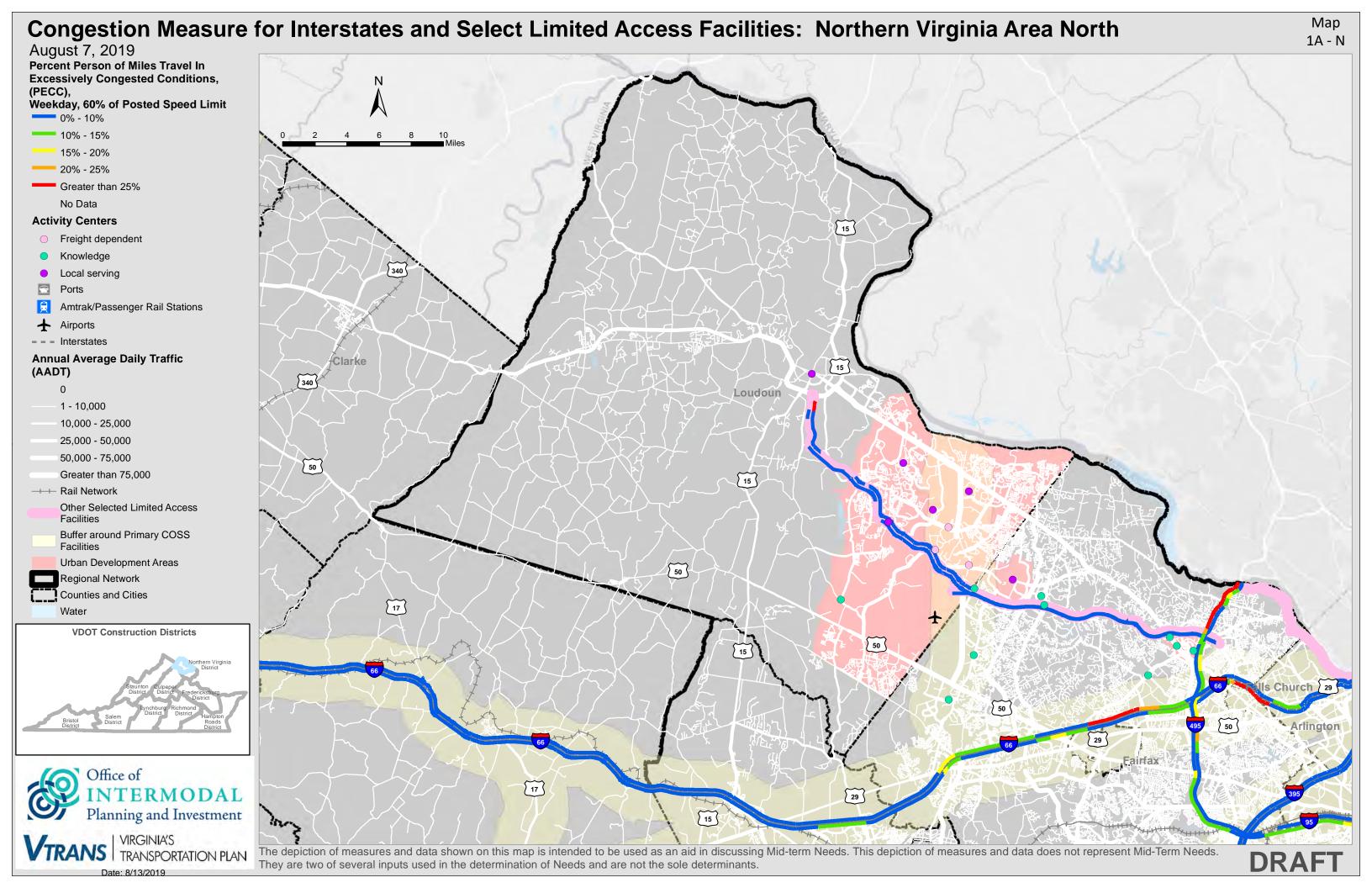


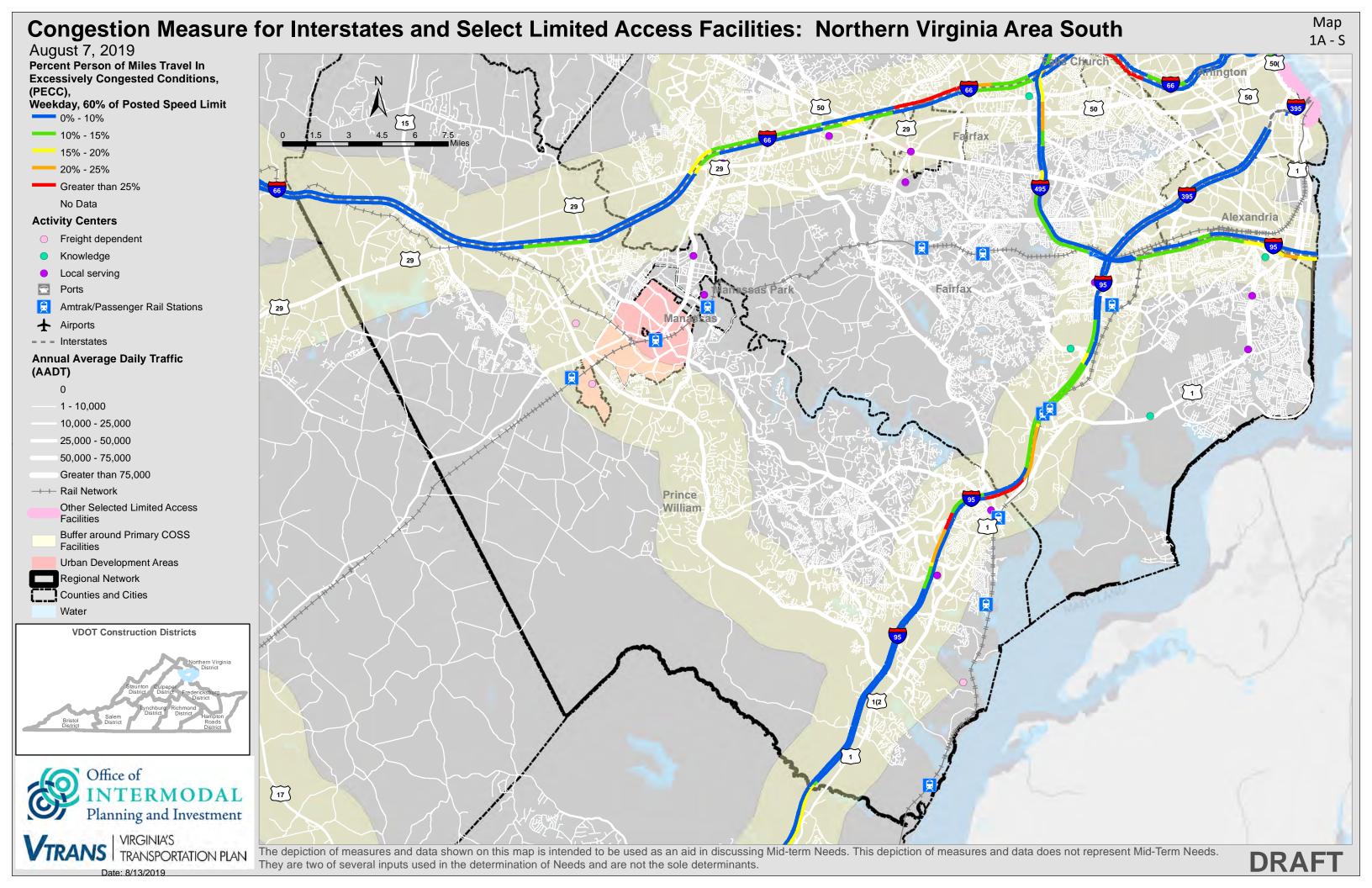
Date: 8/13/2019

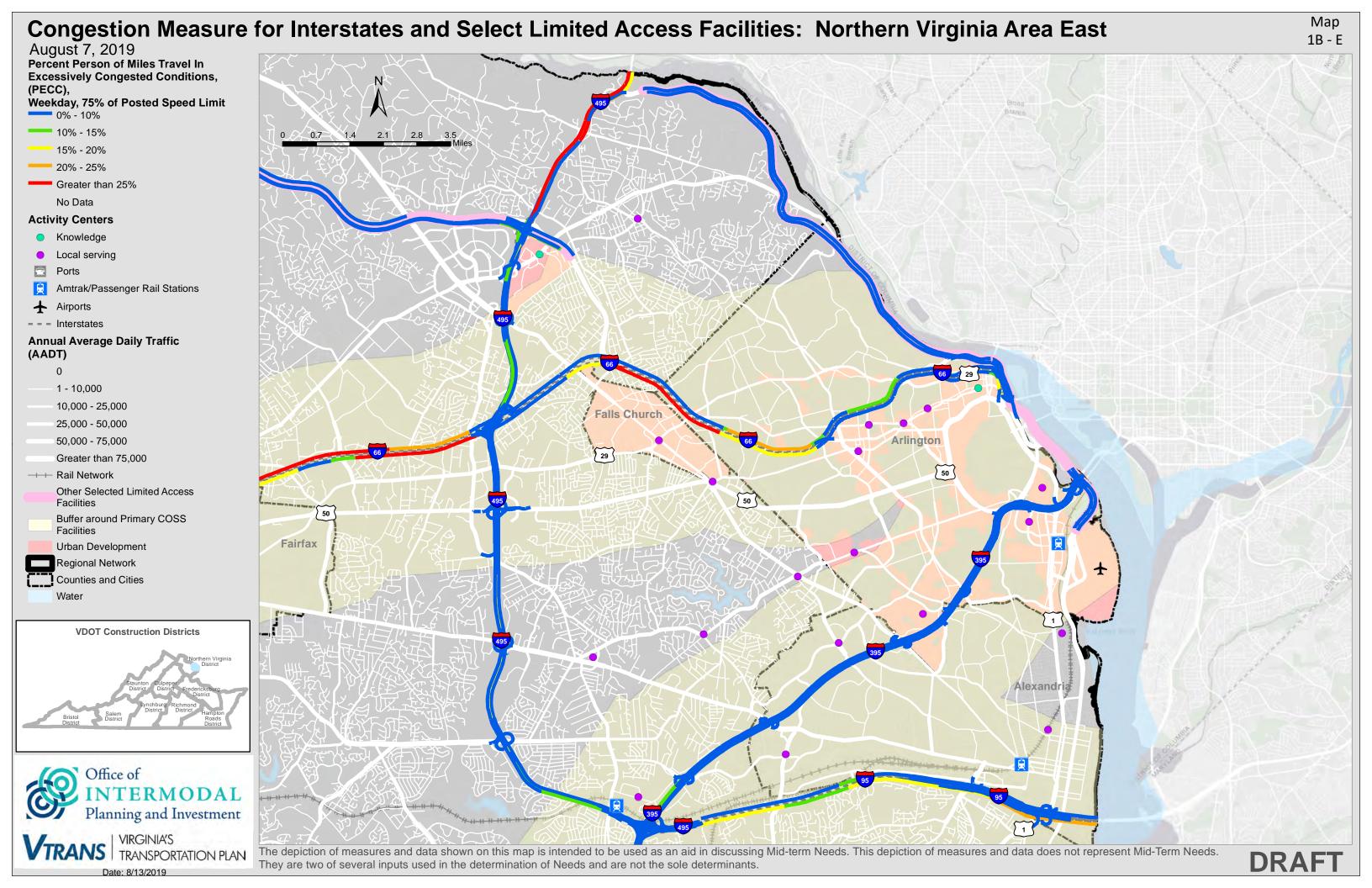


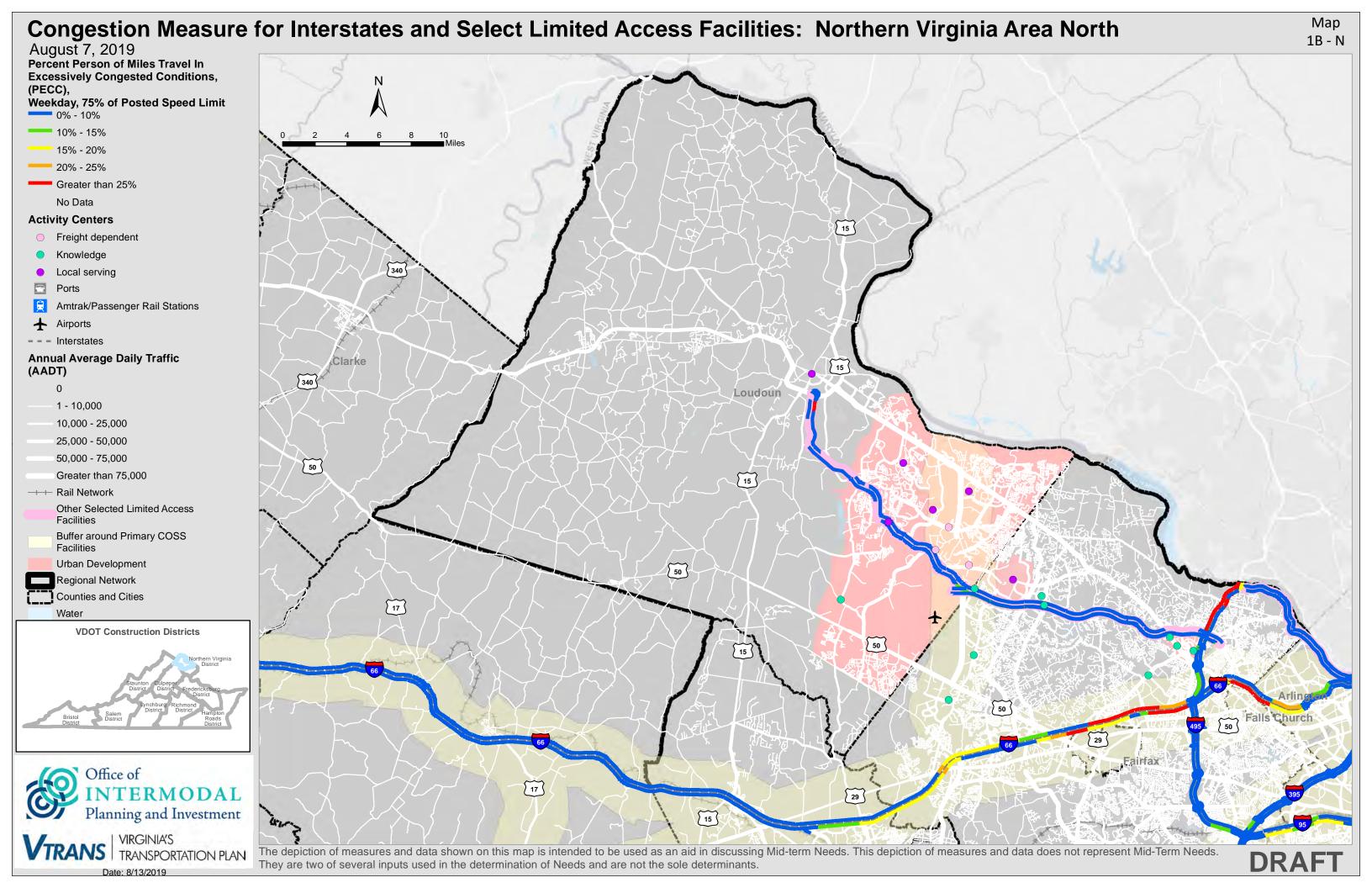
They are one of several inputs used in the determination of Needs and are not the sole determinant.

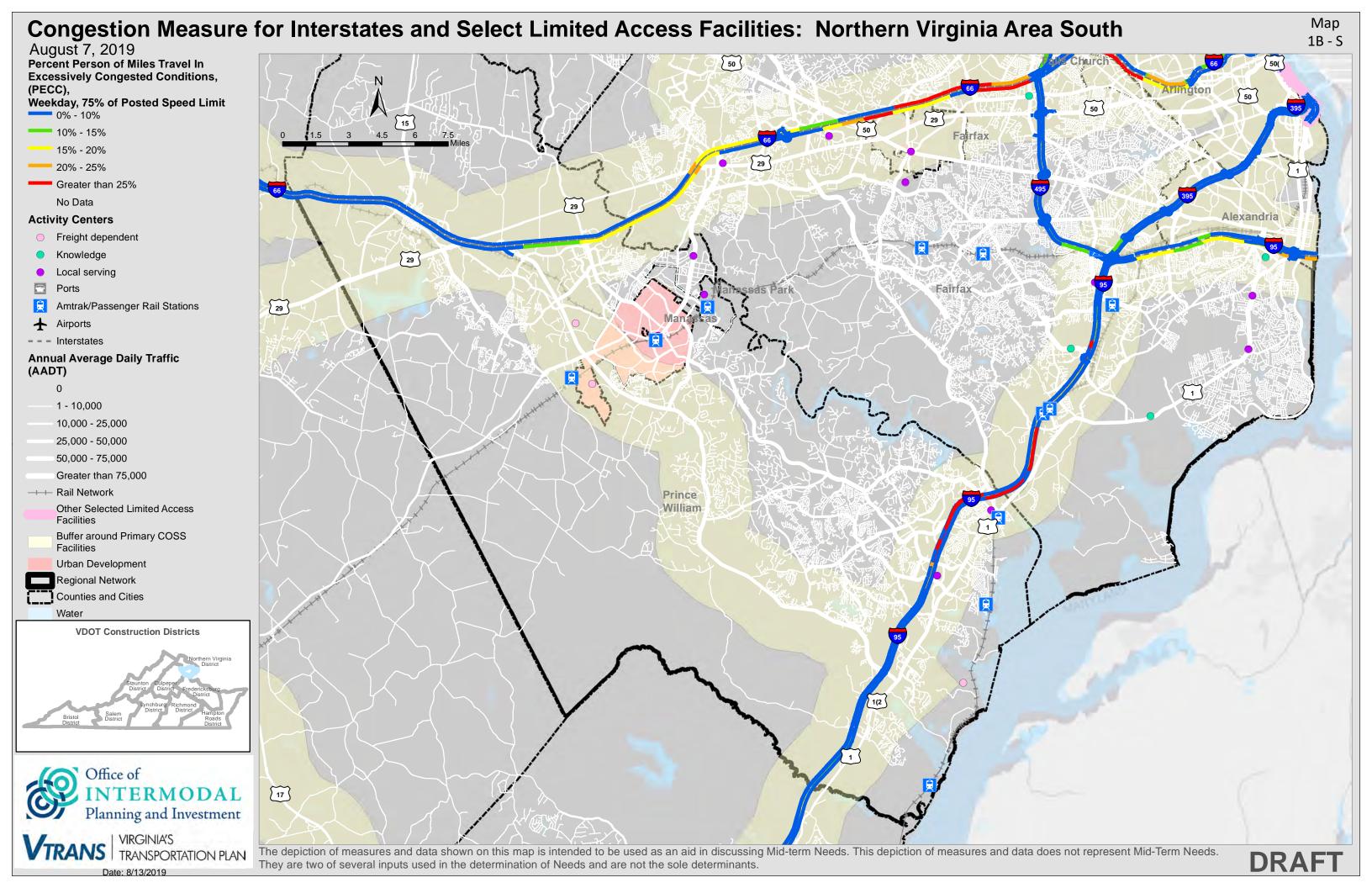


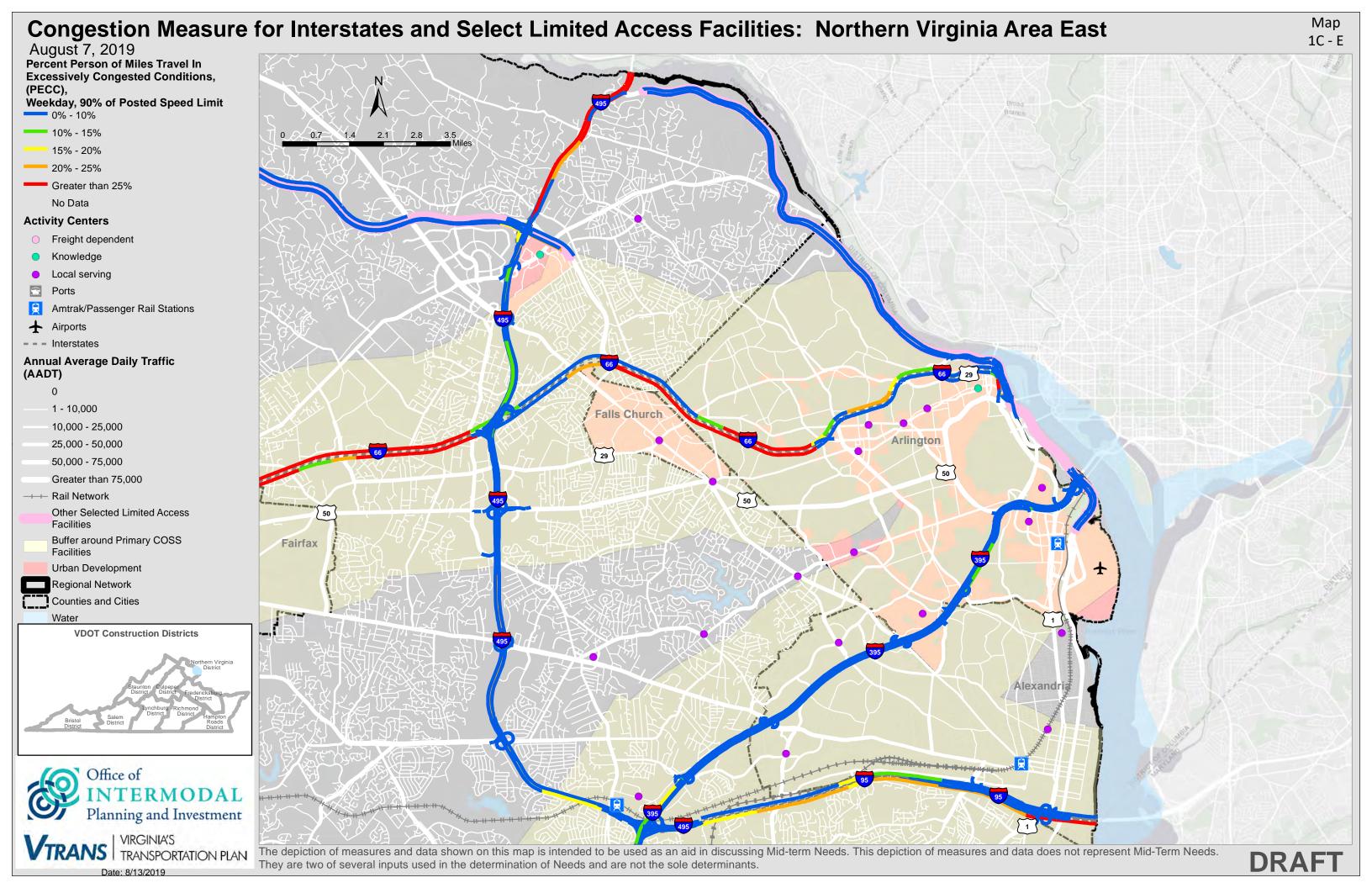


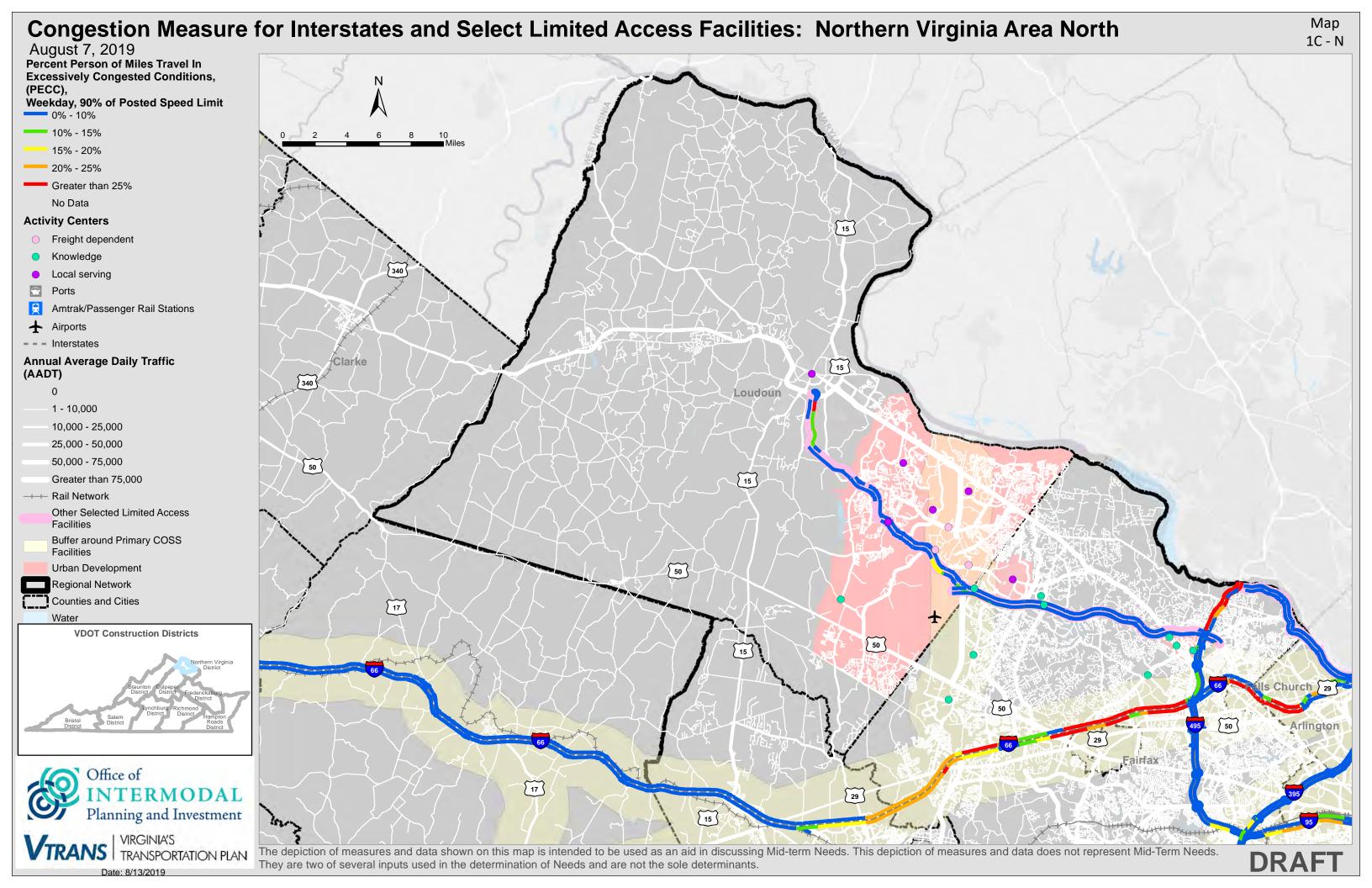


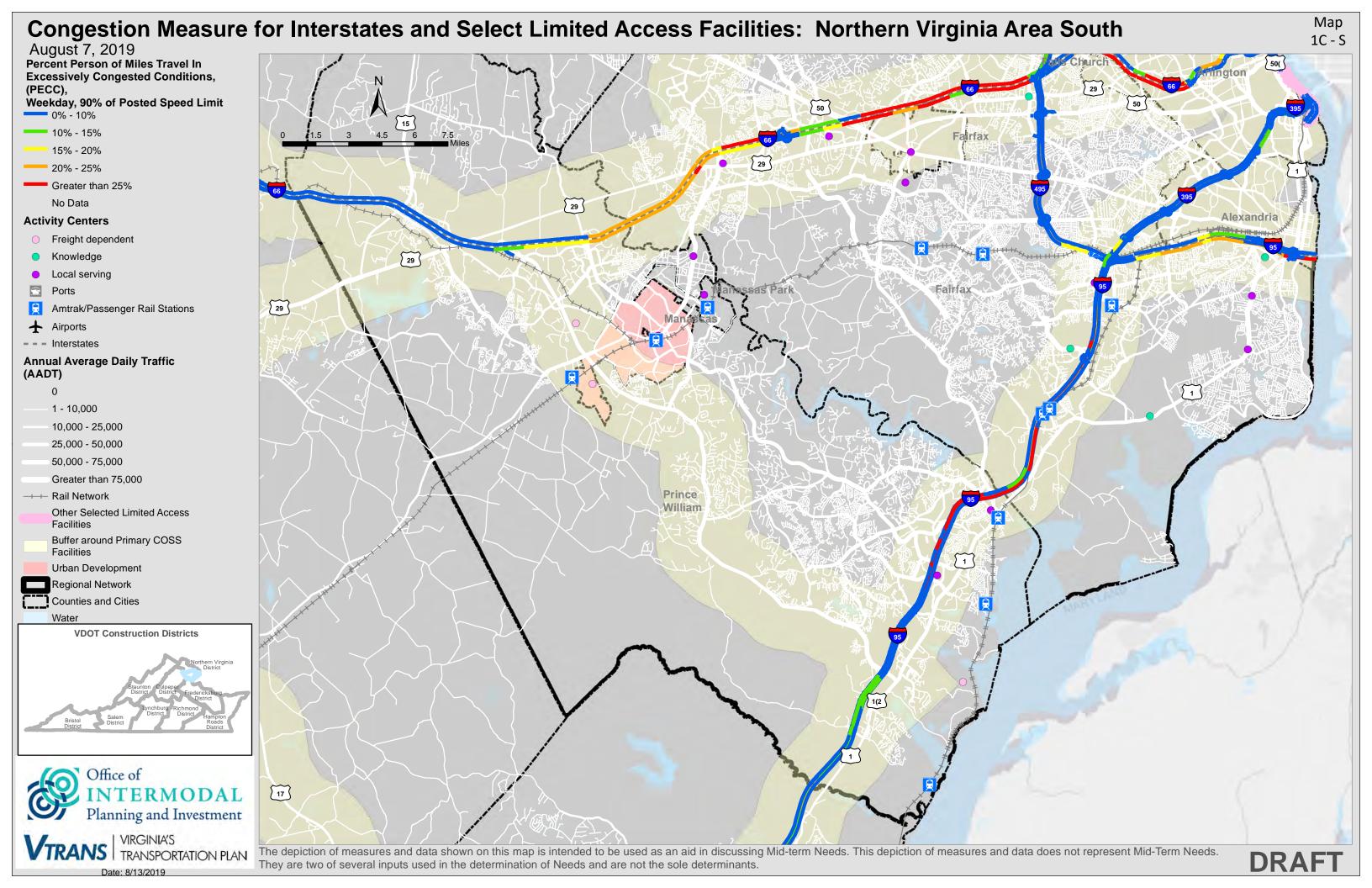


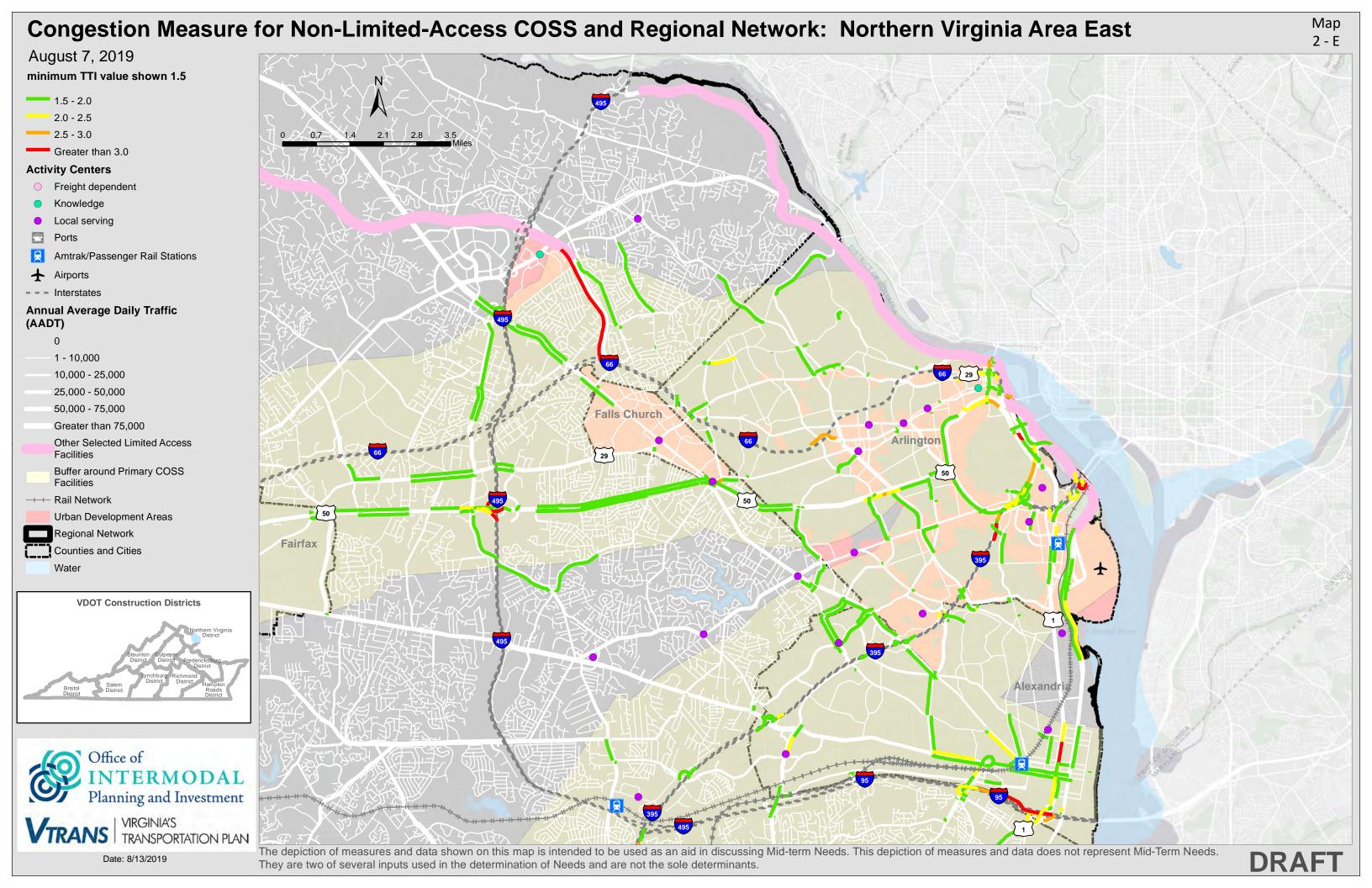


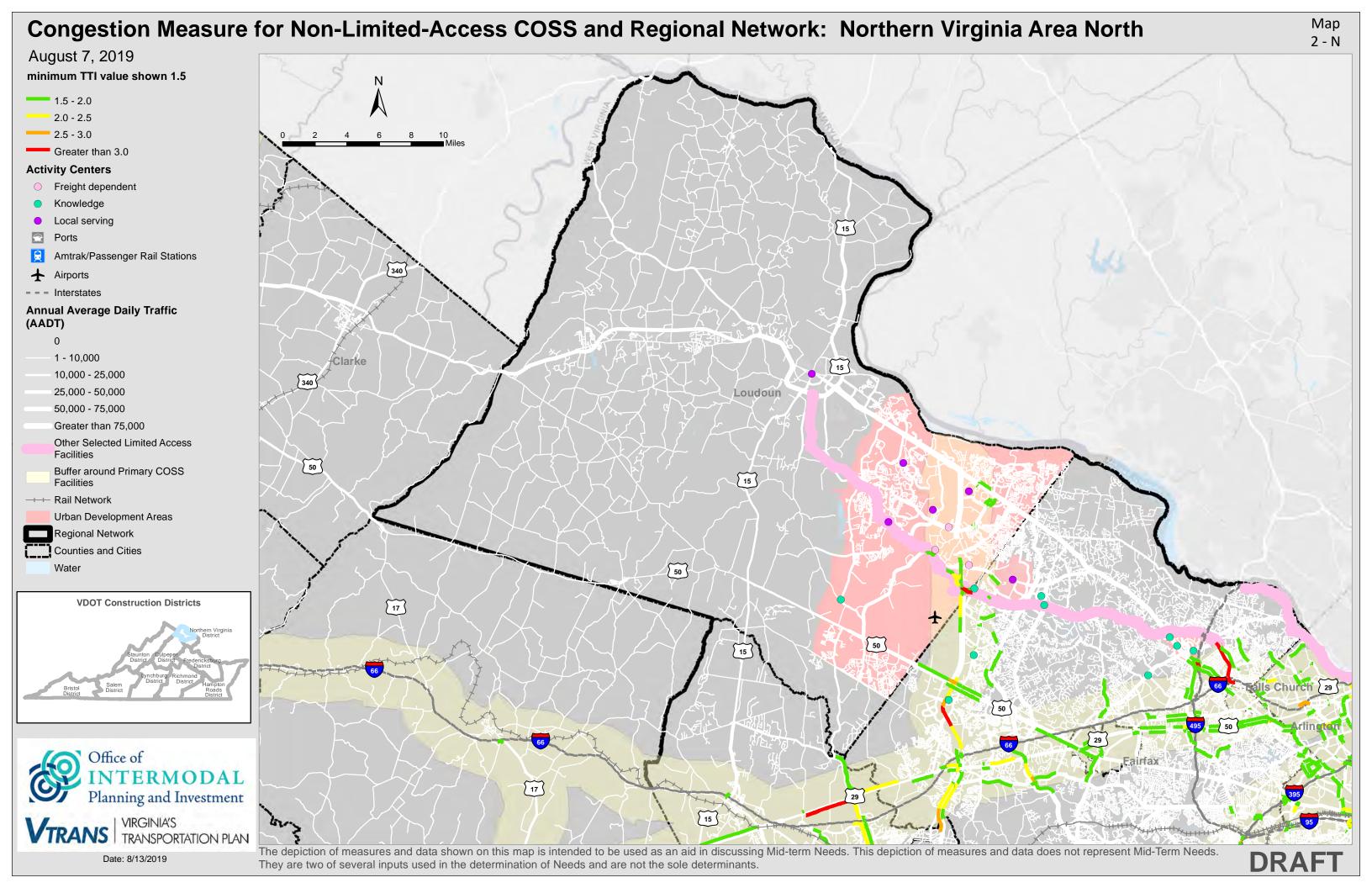


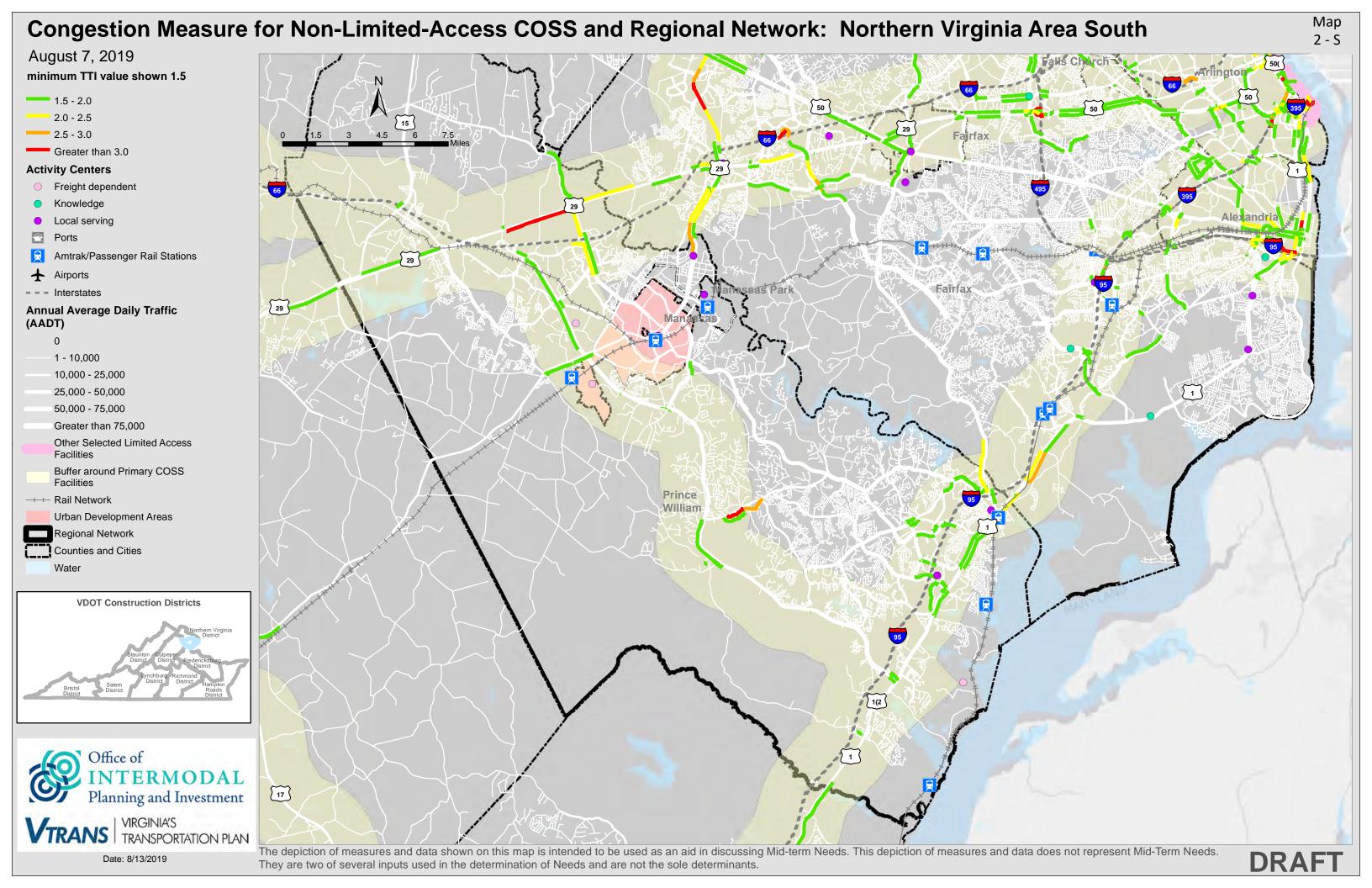


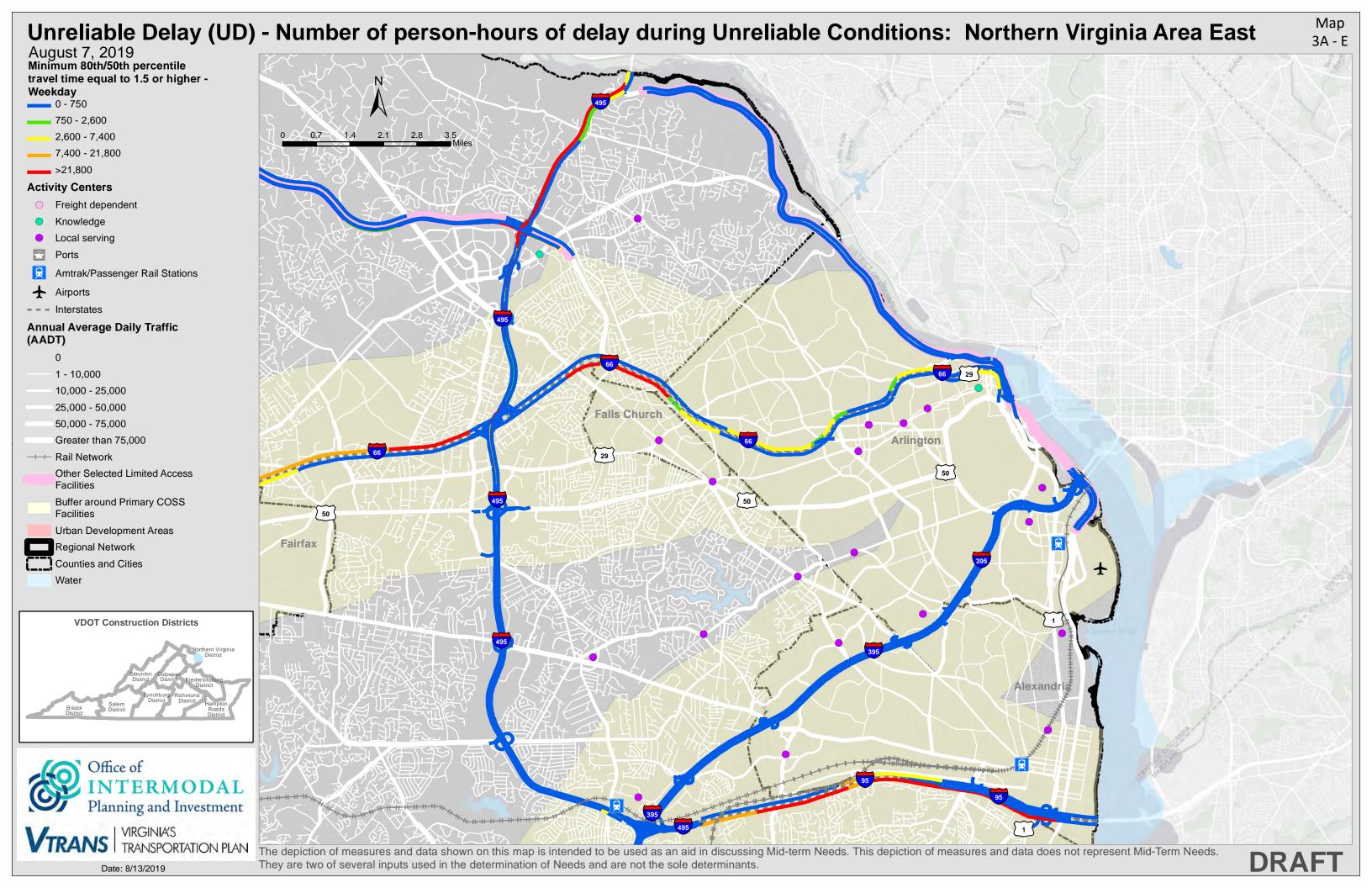


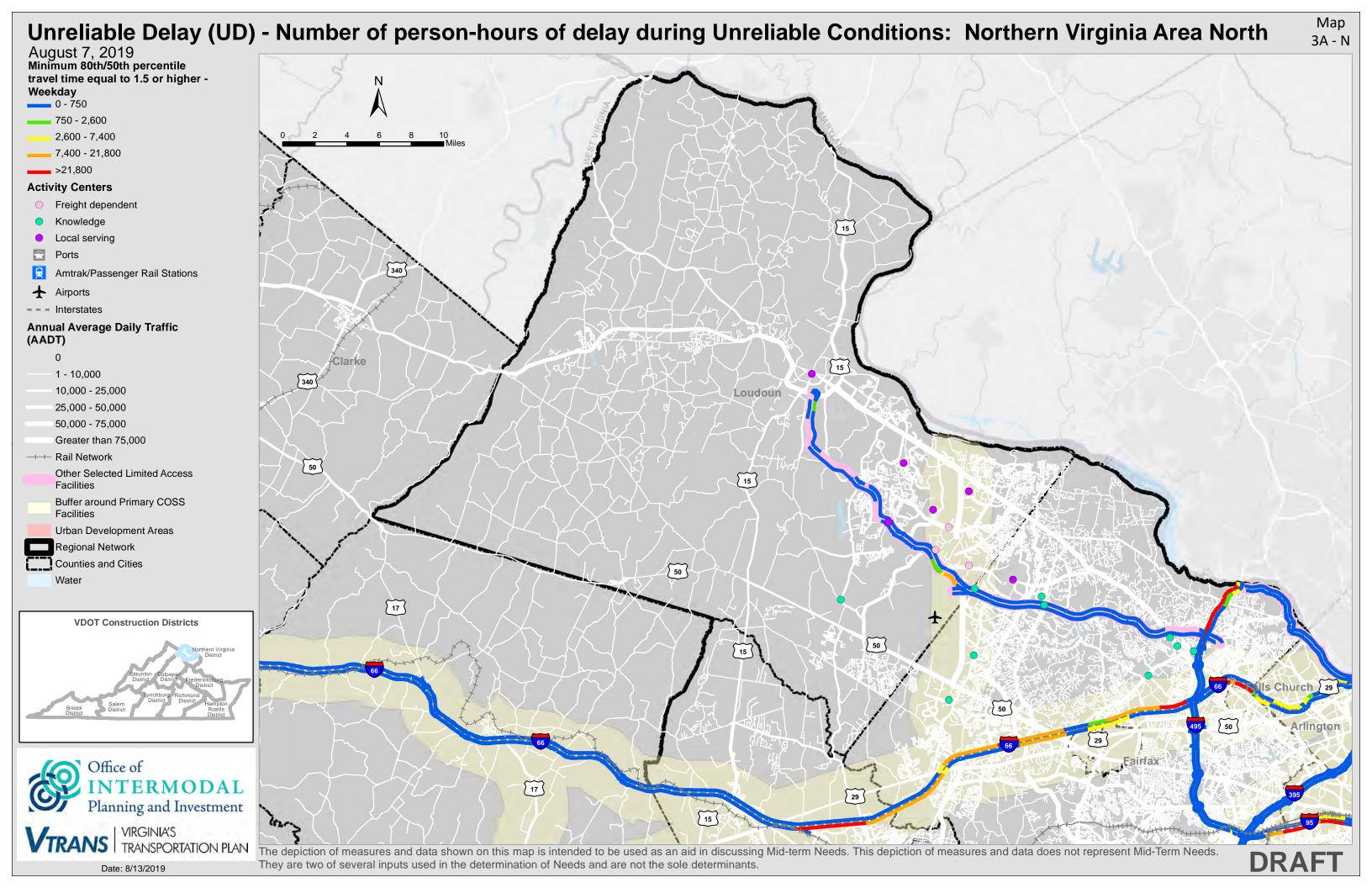


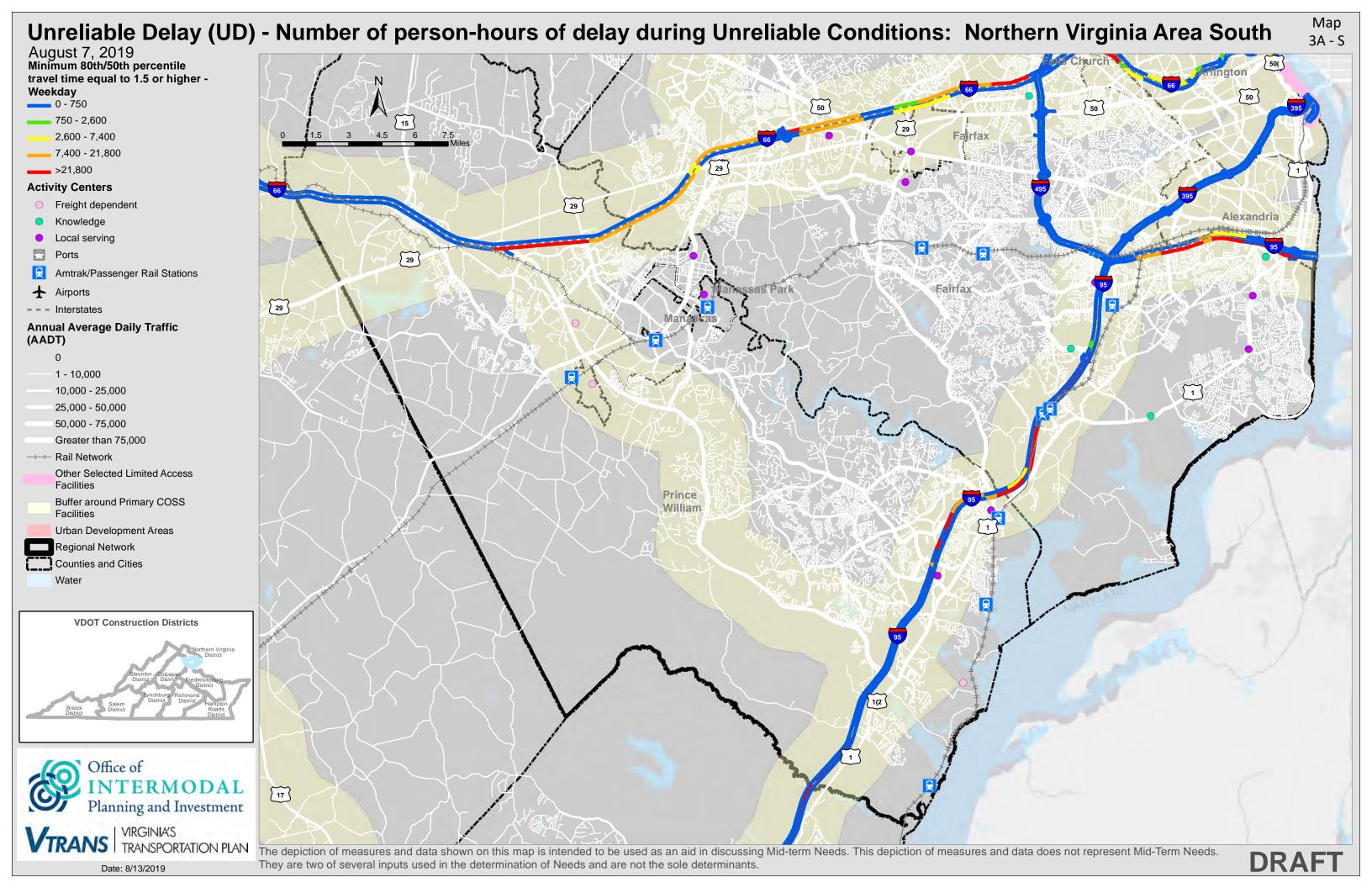


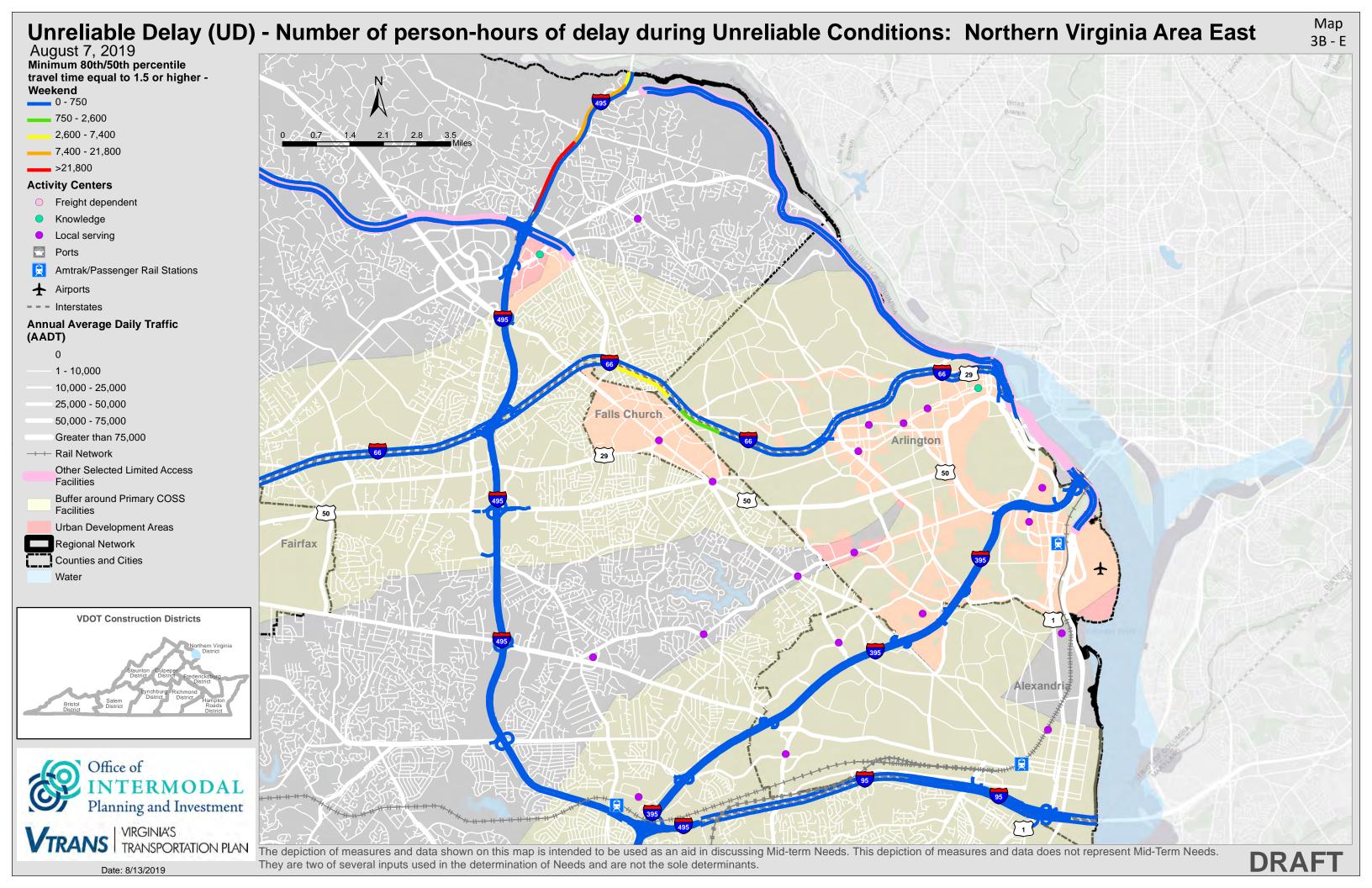


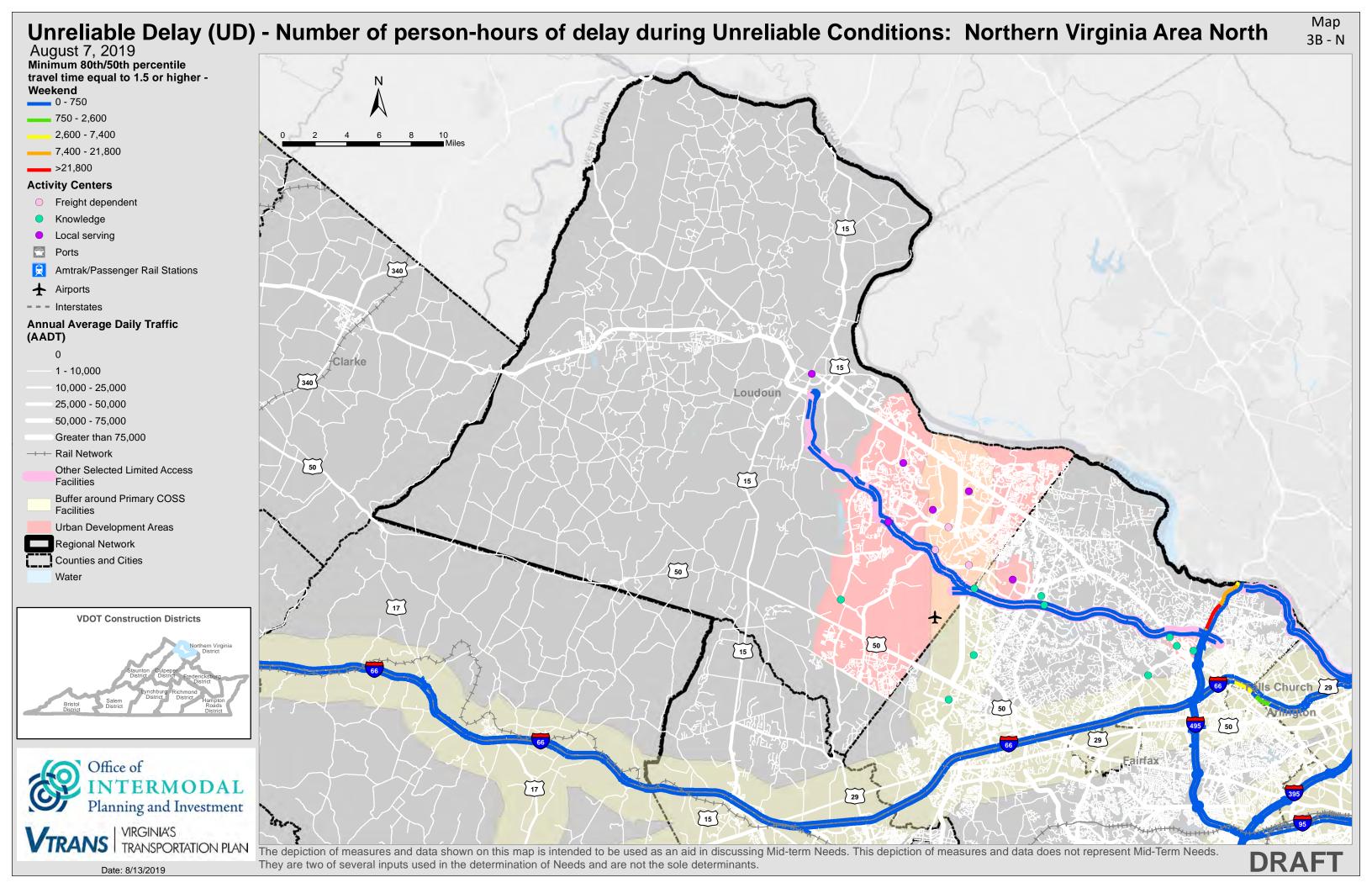


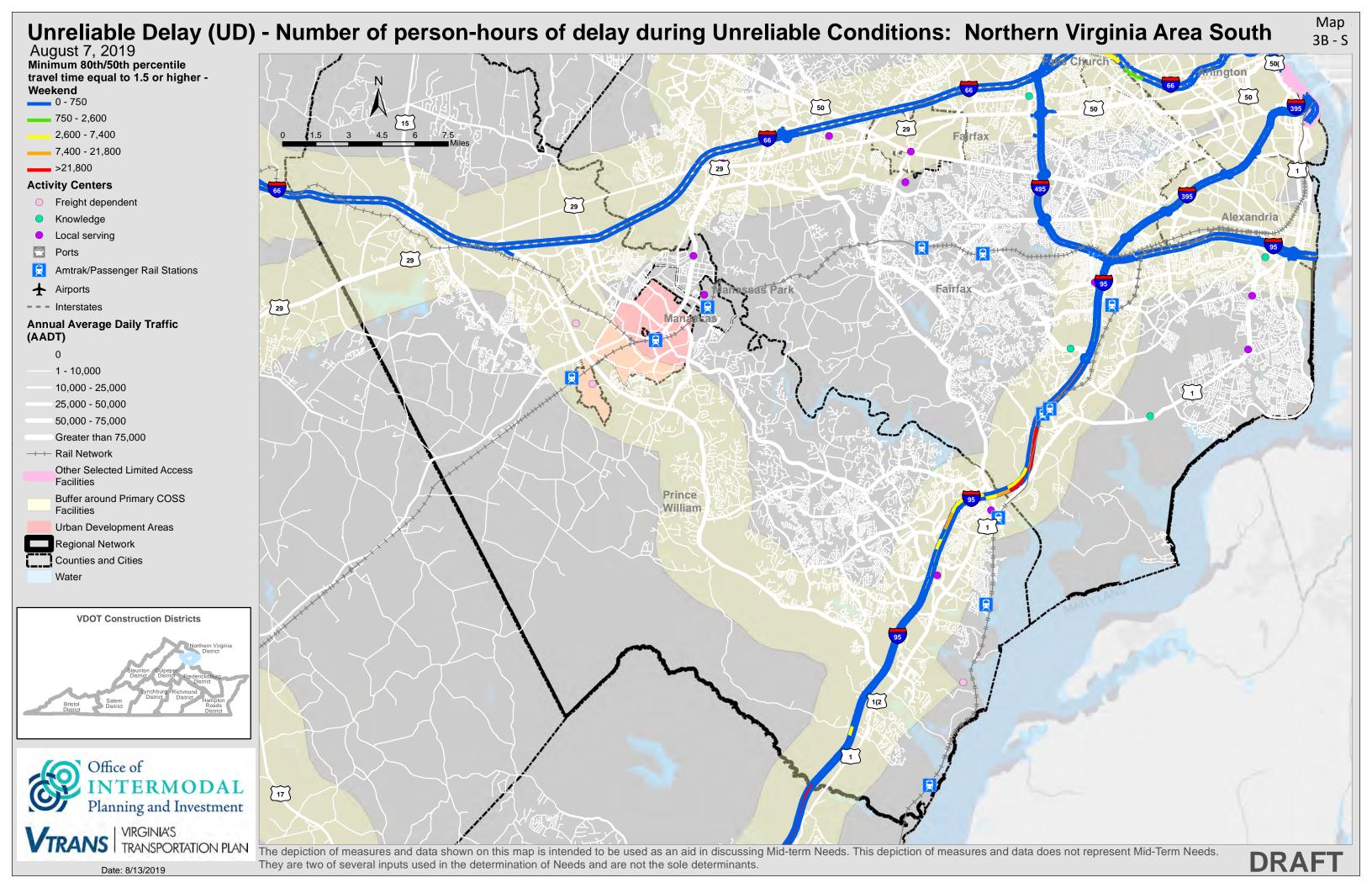


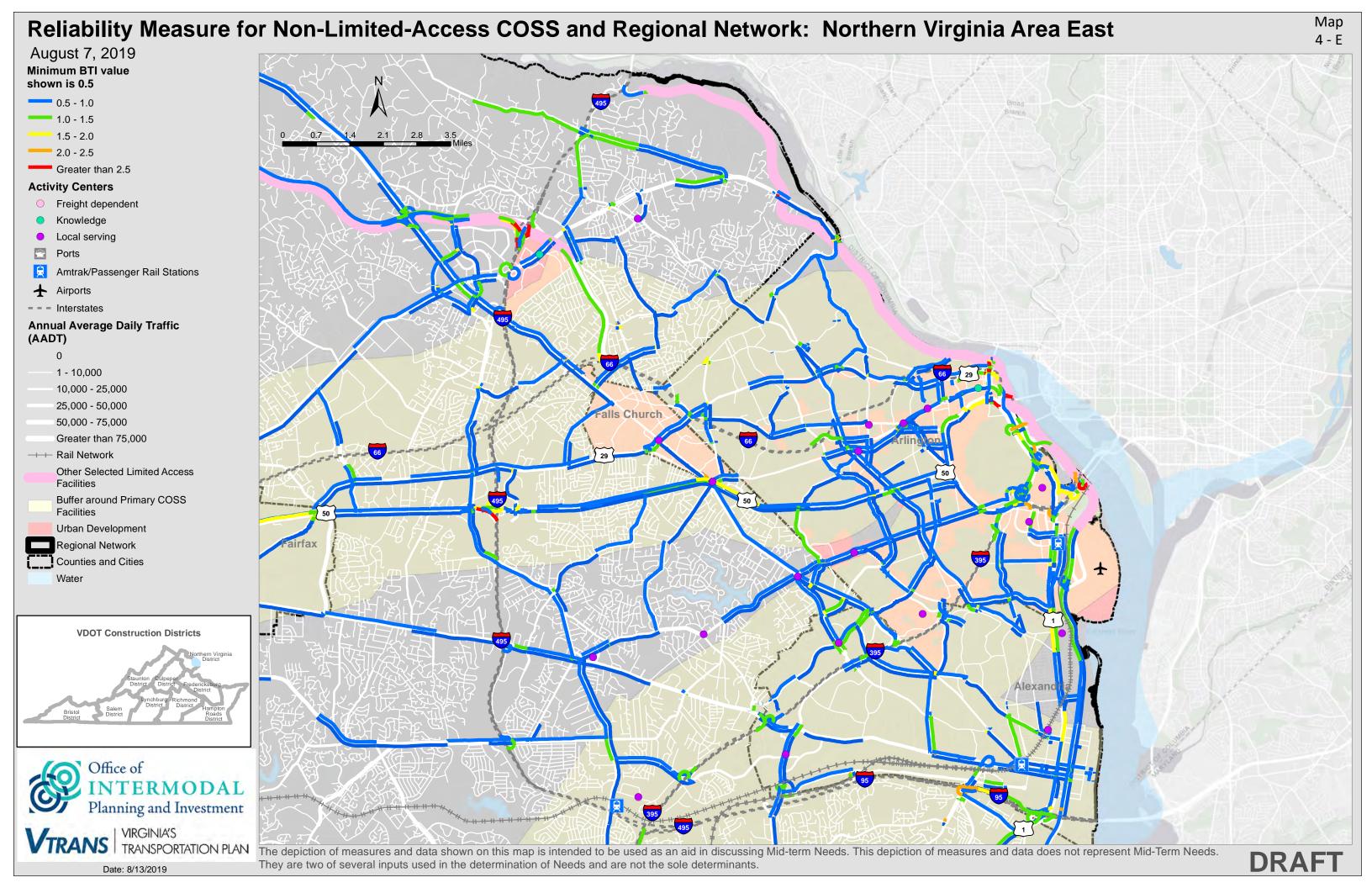


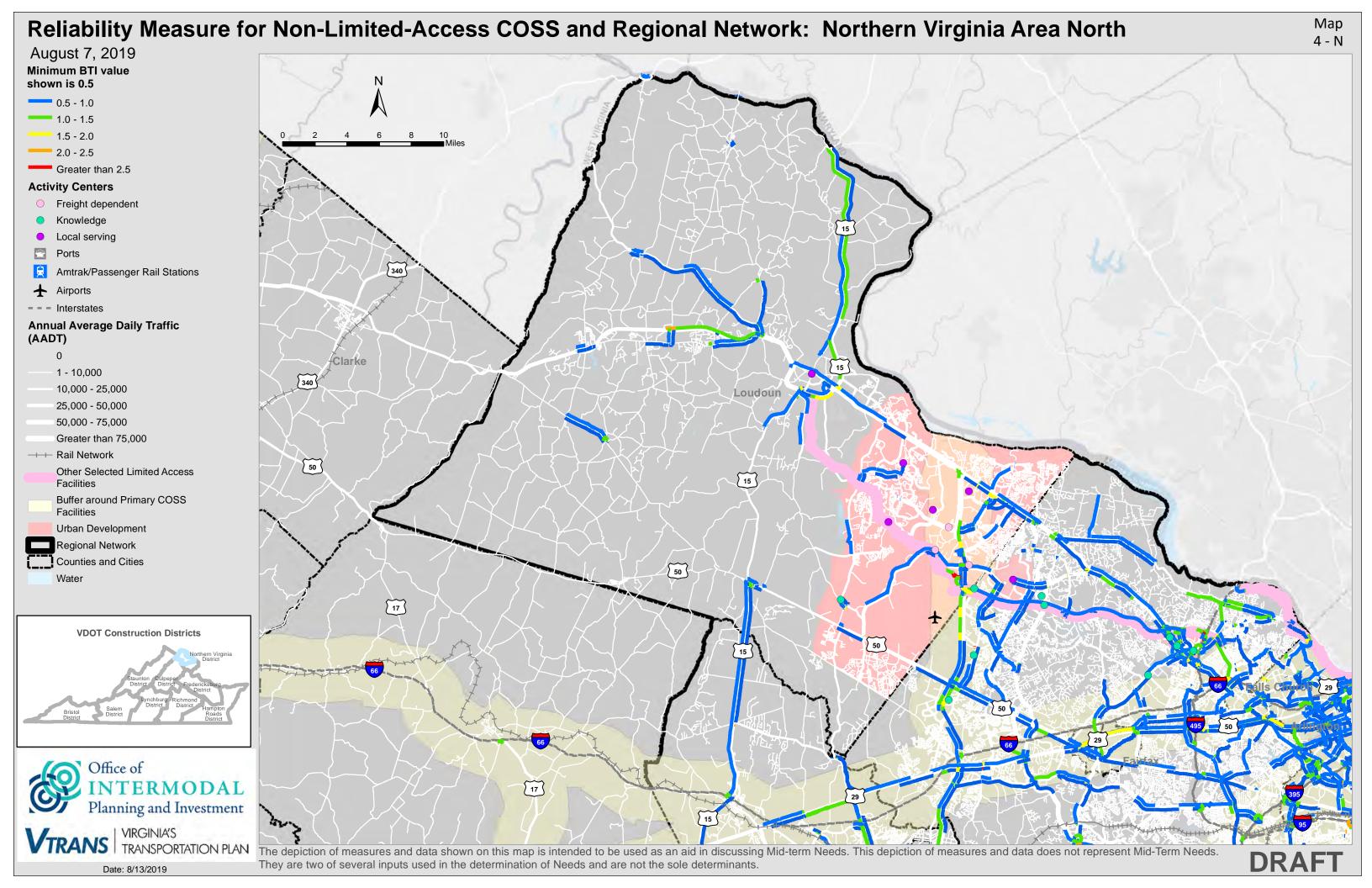


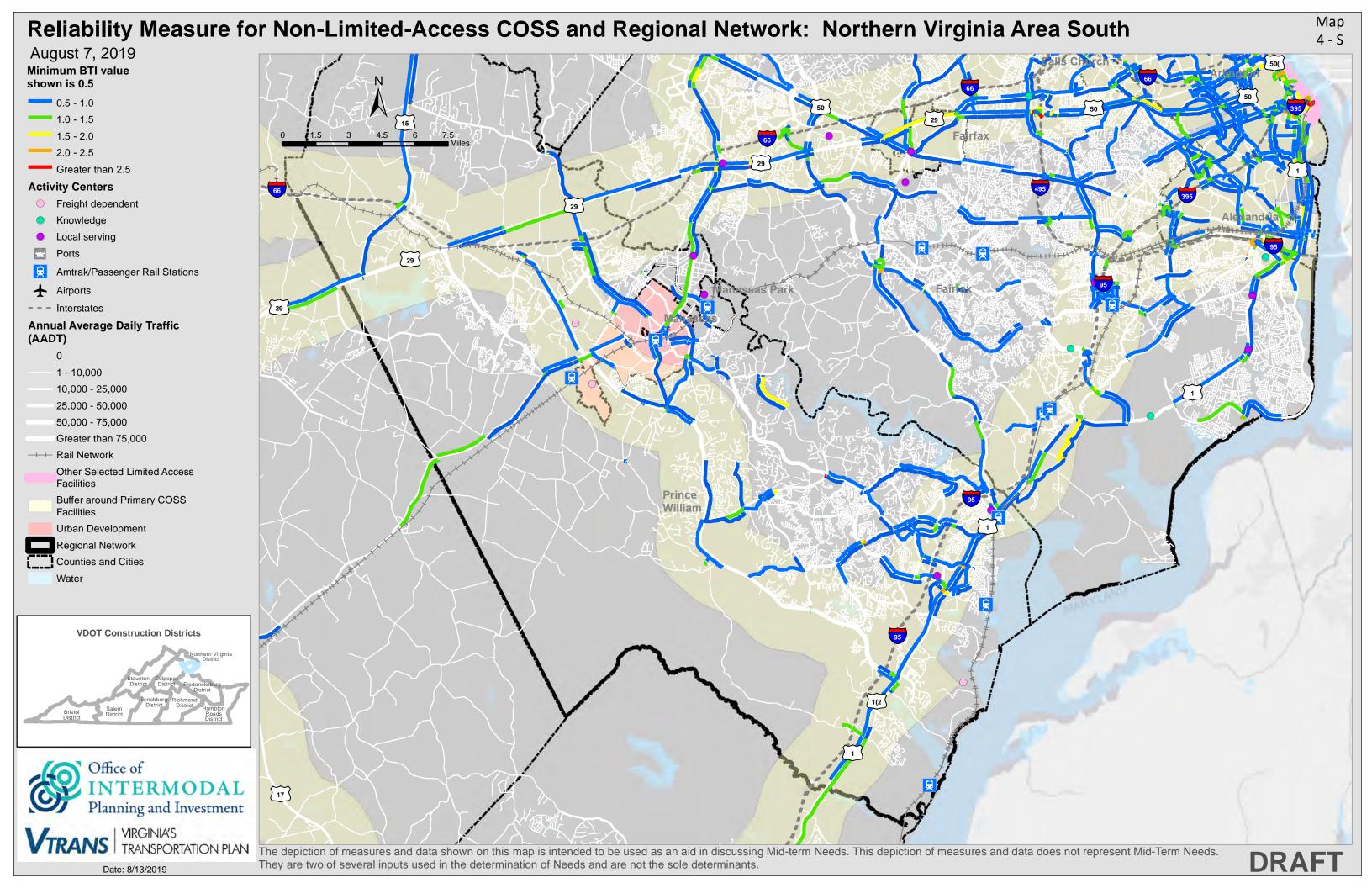








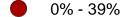




Amtrak On Time Rail Performance Averages 2018



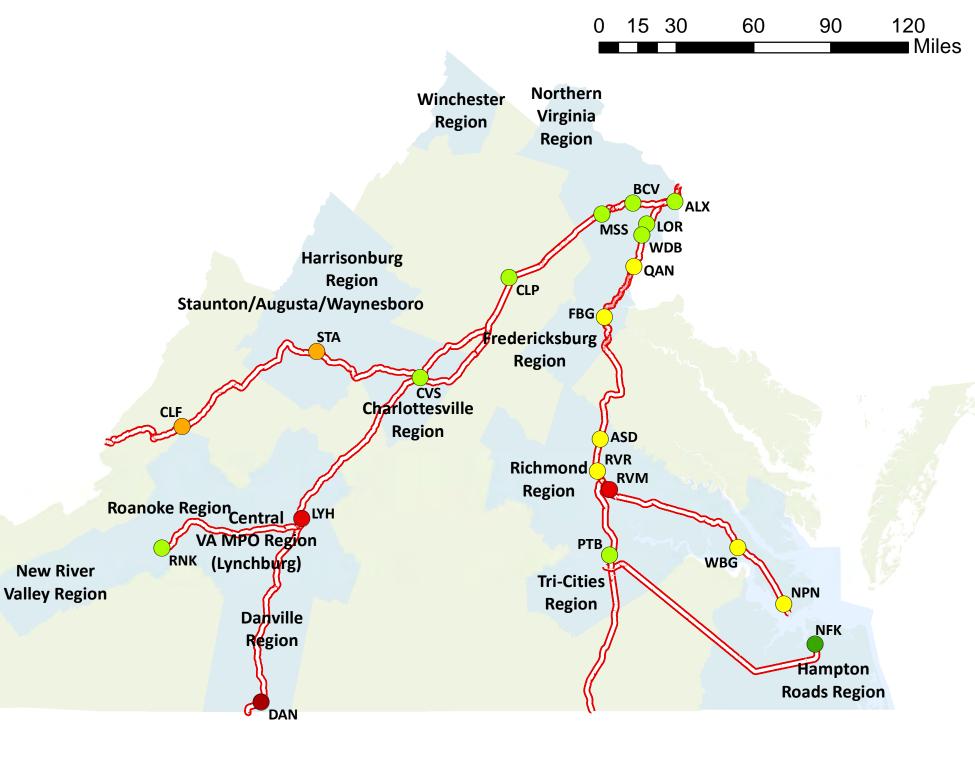
Amtrak Station (Average On-Time Performance)



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

Amtrak Routes

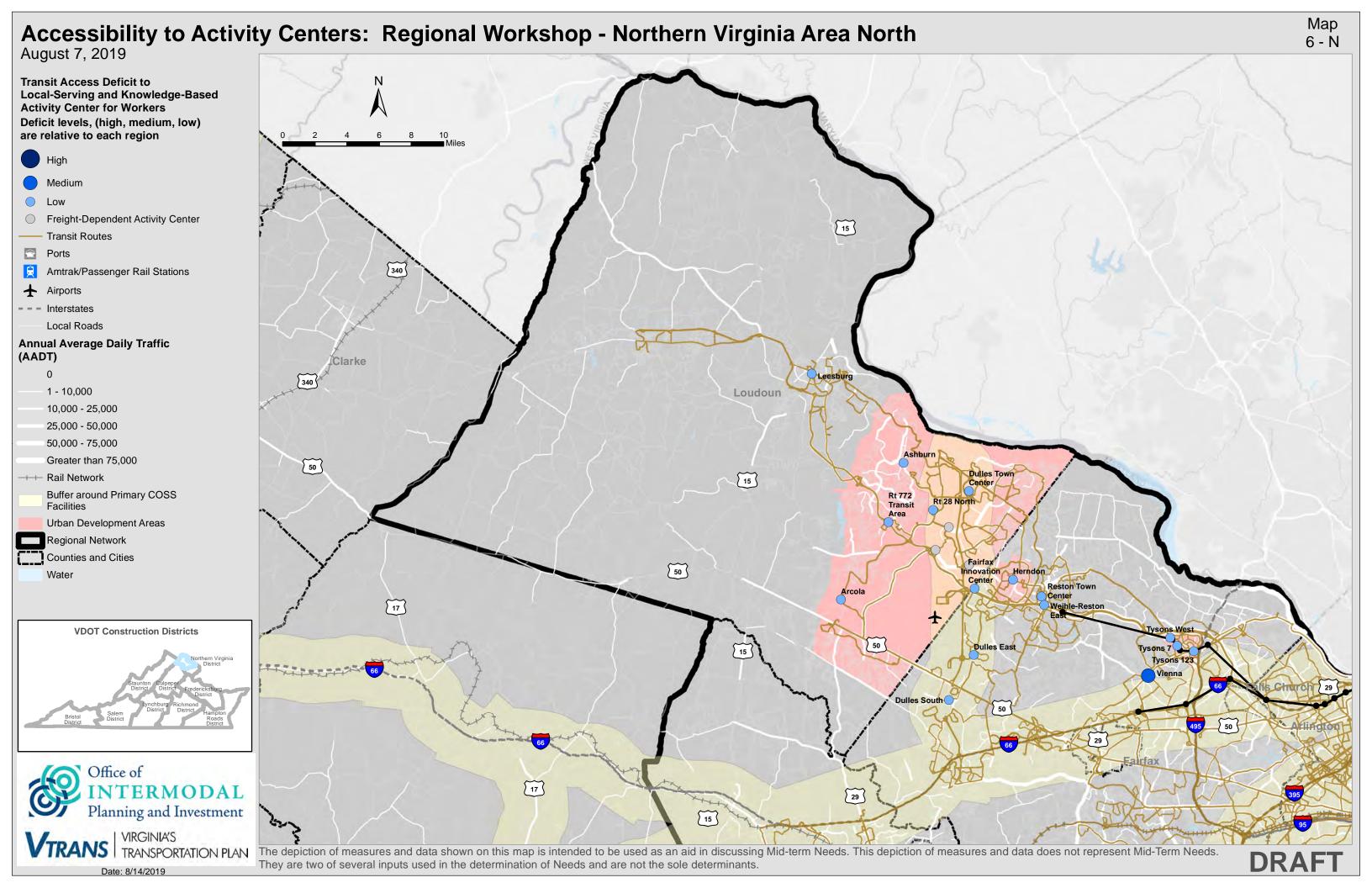
Regional Networks



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 - Northern Virginia Area East 6 - E August 7, 2019 **Transit Access Deficit to** Local-Serving and Knowledge-Based **Activity Center for Workers** Deficit levels, (high, medium, low) 1.4 2.1 2.8 3.5 Miles are relative to each region Freight-Dependent Activity Center Transit Routes Ports Amtrak/Passenger Rail Stations **★** Airports - - - Interstates 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 even Corners → Rail Network **Buffer around Primary COSS Urban Development Areas** Regional Network airfax Counties and Cities Water Bailey's **VDOT Construction Districts** Annandale Office of INTERMODAL 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. DRAFT They are two of several inputs used in the determination of Needs and are not the sole determinants. Date: 8/14/2019



Map Accessibility to Activity Centers: Regional Workshop - Northern Virginia Area South 6 - S August 7, 2019 **Transit Access Deficit to** Local-Serving and Knowledge-Based Merrifield-Du **Activity Center for Workers** Deficit levels, (high, medium, low) are relative to each region Fairfax City 29 Freight-Dependent Activity Center Transit Routes Ports 29 Amtrak/Passenger Rail Stations Beacon-Grovetor **★** Airports 29 - - - Interstates 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 → Rail Network **Buffer around Primary COSS Prince** William **Urban Development Areas** Regional Network Counties and Cities Water **VDOT Construction Districts** Office of INTERMODAL 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 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** They are two of several inputs used in the determination of Needs and are not the sole determinants. Date: 8/14/2019

Map Disadvantaged Population beyond ¼ mile Access to Transit Service: Regional Workshop - Northern Virginia Area East 7A -E August 7, 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 1.4 2.1 2.8 3.5 Miles fixed route service, local rail, or BRT Disadvantaged and Viable for fixed route service, local rail, or BRT WMATA Metro Stops WMATA Metro Routes Transit Routes **Activity Centers** Freight dependent Knowledge Local serving Ports Amtrak/Passenger Rail Stations Airports - - - Interstates 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 → Rail Network Regional Network Fairfax Counties and Cities Disadvantaged population access to transit accounts for existing transit service where the data is available. **VDOT Construction Districts** Office of INTERMODAL 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 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** They are two of several inputs used in the determination of Needs and are not the sole determinants. Date: 8/14/2019

Disadvantaged Population beyond ¼ mile Access to Transit Service: Regional Workshop - Northern Virginia Area North August 7, 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 WMATA Metro Stops WMATA Metro Routes Transit Routes **Activity Centers** Freight dependent Knowledge Local serving Ports Amtrak/Passenger Rail Stations Airports - - - Interstates 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 → Rail Network Regional Network Counties and Cities Disadvantaged population access to transit accounts for existing transit service where the data is available. **VDOT Construction Districts** 29 Office of INTERMODAL Planning and Investment VIRGINIAS
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. They are two of several inputs used in the determination of Needs and are not the sole determinants. Date: 8/14/2019

Disadvantaged Population beyond ¼ mile Access to Transit Service: Regional Workshop - Northern Virginia Area South Map 7A-S August 7, 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 WMATA Metro Stops WMATA Metro Routes Transit Routes **Activity Centers** Freight dependent Knowledge Local serving Ports Amtrak/Passenger Rail Stations Airports - - - Interstates 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 William → Rail Network Regional Network Counties and Cities Disadvantaged population access to transit accounts for existing transit service where the data is available. **VDOT Construction Districts** Office of INTERMODAL 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. **DRAFT** They are two of several inputs used in the determination of Needs and are not the sole determinants. Date: 8/14/2019

Мар Vehicular Crashes January 2013 - April 2019: Regional Workshop - Northern Virginia Area East 8 - E August 7, 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 Fairfax **VDOT Construction Districts** Alexandria Office of INTERMODAL Planning and Investment 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. They are two of several inputs used in the determination of Needs and are not the sole determinants.

Date: 8/14/2019

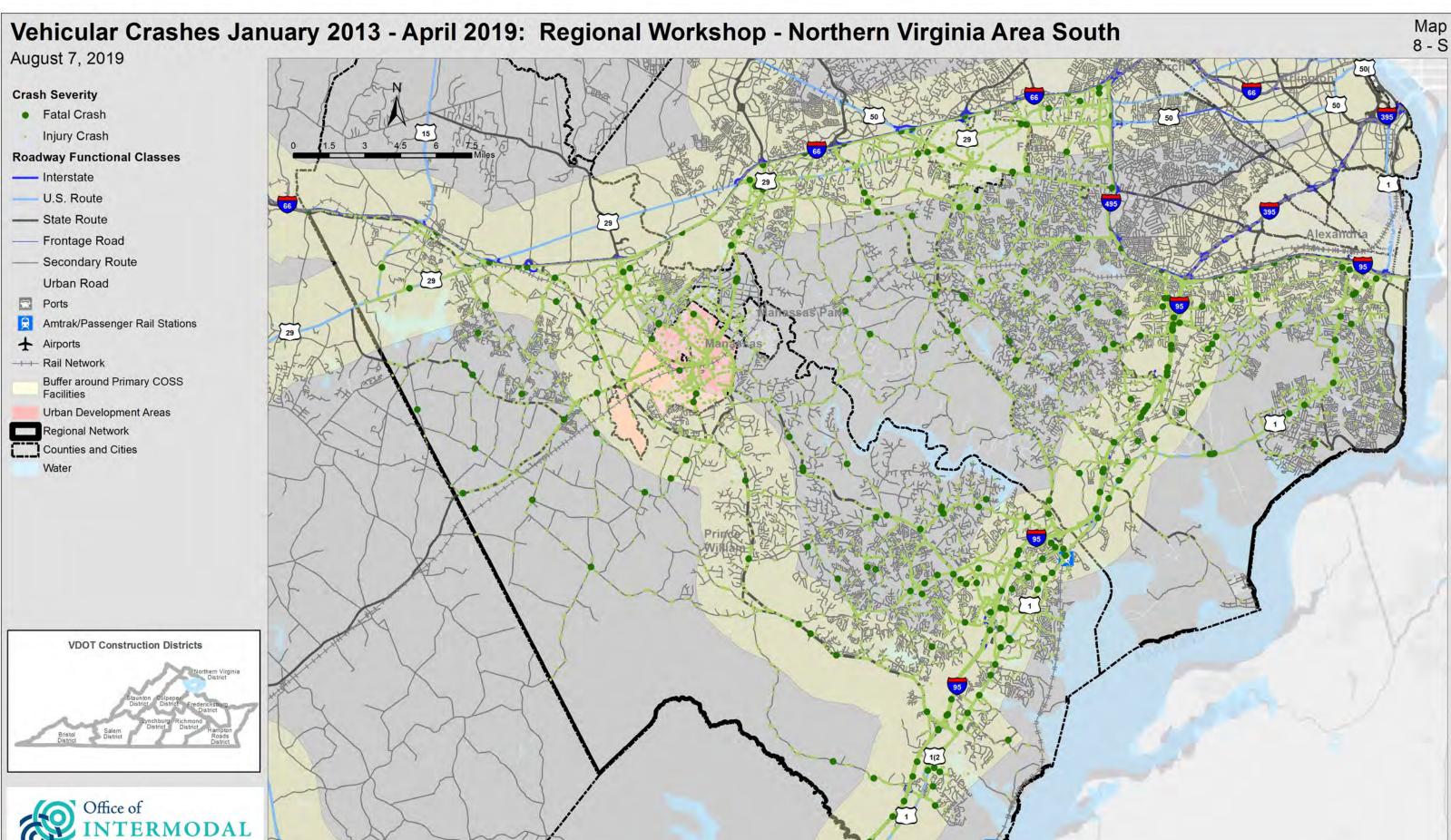
DRAFT

Мар Vehicular Crashes January 2013 - April 2019: Regional Workshop - Northern Virginia Area North 8 - N August 7, 2019 **Crash Severity** Fatal Crash Injury Crash **Roadway Functional Classes** --- Interstate U.S. Route - State Route Frontage Road 15 Secondary Route Urban Road Ports Amtrak/Passenger Rail Stations ---- Rail Network Buffer around Primary COSS 340 **Urban Development Areas** Regional Network Counties and Cities Water **VDOT Construction Districts** [17] Office of **INTERMODAL** Planning and Investment 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. They are two of several inputs used in the determination of Needs and are not the sole determinants.

Date: 8/14/2019

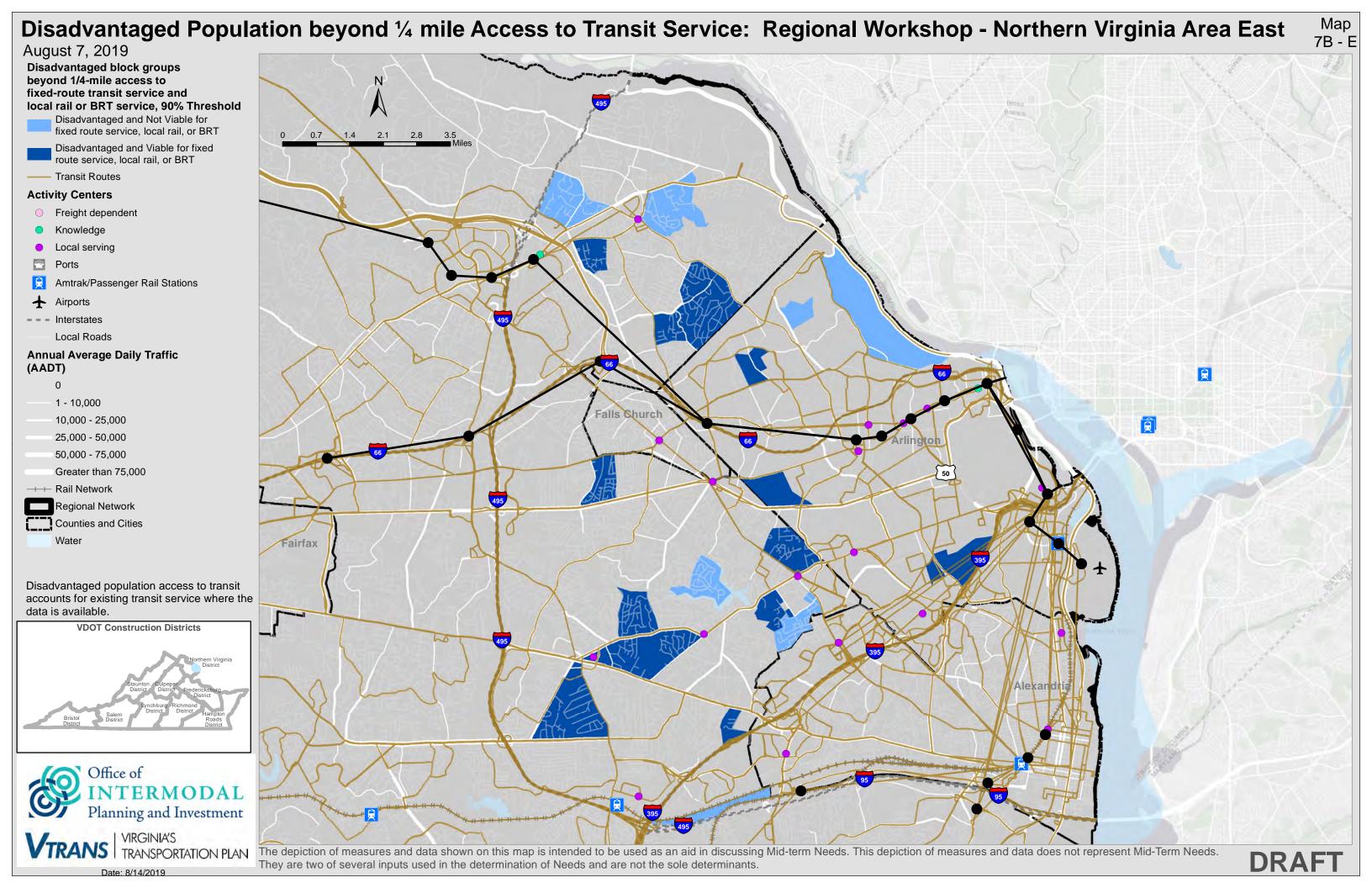
DRAF1





[17]

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.



Disadvantaged Population beyond ¼ mile Access to Transit Service: Regional Workshop - Northern Virginia Area North August 7, 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 **Activity Centers** Freight dependent Knowledge Local serving Ports Amtrak/Passenger Rail Stations **★** Airports - - - Interstates Local Roads **Annual Average Daily Traffic** Clarke (AADT) 0 Loudoun 1 - 10,000 10,000 - 25,000 25,000 - 50,000 50,000 - 75,000 Greater than 75,000 ----- Rail Network Regional Network **Counties and Cities** Water Disadvantaged population access to transit accounts for existing transit service where the data is available. **VDOT Construction Districts** 29 Office of INTERMODAL Planning and Investment 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.

Disadvantaged Population beyond ¼ mile Access to Transit Service: Regional Workshop - Northern Virginia Area South August 7, 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 **Activity Centers** Freight dependent Knowledge Local serving Ports Amtrak/Passenger Rail Stations **★** Airports - - - Interstates 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 ----- Rail Network Prince Regional Network **Counties and Cities** Water Disadvantaged population access to transit accounts for existing transit service where the data is available. **VDOT Construction Districts** Office of INTERMODAL 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** They are two of several inputs used in the determination of Needs and are not the sole determinants.