

May 4, 2023

**MEMORANDUM**

TO: Members, Transportation Technical Committee  
 FROM: Bryan Hill, AICP, CZA, Interim Secretary to the Transportation Technical Committee  
 SUBJ: May 11, 2023 TTC Meeting/Agenda

The May meeting of the Transportation Technical Committee (TTC) will be held Thursday, May 11, 2023 at 1:30 p.m. at the Roanoke Valley-Alleghany Regional Commission office (Top Floor Conference Room), 313 Luck Avenue, SW, Roanoke, VA.

**TTC AGENDA**

1. Welcome, Call to Order ..... *Chair Sexton*
2. Roll Call (including consideration of remote participation)..... *Bryan Hill*
3. **Action Requested:** Approval of the Consent Agenda items: ..... *Chair Sexton*
  - A. Approval of the Agenda
  - B. Action on the April 13, 2023 TTC Minutes, pp. 2 – 18

**ACTION REQUESTED:** Approval of consent agenda items, voice vote
4. Chair’s Remarks ..... *Chair Sexton*
5. Pedal Safe Roanoke: Bike Month Activities ..... *Ken McLeod, League of American Bicyclists*
6. Update on 2020 Census and Roanoke Urbanized Area Changes, pp. 19 – 21 ..... *Jonathan Stanton*  
**ACTION REQUESTED:** No Action
7. FY25 – 26 Transportation Alternatives Program Application Cycle Update..... *Bryan Hill*  
**ACTION REQUESTED:** No Action
8. Other Business
9. Comments by TTC Members and/or Citizens
10. Adjournment (by 2:30 p.m.)

**TPO POLICY BOARD:** Cities of Roanoke and Salem; Counties of Bedford, Botetourt, Montgomery and Roanoke; Town of Vinton; Greater Roanoke Transit Company (*Valley Metro*); Roanoke-Blacksburg Regional Airport; Virginia Department of Rail & Public Transportation; Virginia Department of Transportation

## MINUTES

The April meeting of the Transportation Technical Committee was held on Thursday, April 13, 2023 at 1:30 p.m. at the Roanoke Valley-Alleghany Regional Commission, 313 Luck Avenue, SW, Roanoke, VA.

**1. WELCOME, CALL TO ORDER**

Chair Sexton called the meeting to order at 1:30 p.m.

**2. ROLL CALL (including consideration of remote participation)**

Chair Sexton called the roll and stated a quorum was present.

**VOTING MEMBERS PRESENT**

Marief Fowler	County of Bedford
Nick Baker	County of Botetourt
Jonathan McCoy	County of Botetourt
Megan Cronise	County of Roanoke
Isaac Henry	County of Roanoke
Wayne Leftwich <i>(arrived after roll call)</i>	City of Roanoke
Dwayne D'Ardenne <i>(arrived after roll call)</i>	City of Roanoke
Josh Pratt	City of Salem
Anita McMillan	Town of Vinton
Cody Sexton, <i>Chair</i>	Town of Vinton
William Long	Greater Roanoke Transit Company
Frank Maguire, <i>Vice Chair</i>	Roanoke Valley Greenway Commission
Michael Gray	Virginia Dept. of Transportation - Salem District
Daniel Wagner <i>(via zoom)</i>	Virginia Dept. of Rail and Public Transportation

**VOTING MEMBERS ABSENT**

Dan Brugh	County of Montgomery
Crystal Williams	City of Salem
Kyle Kotchou	Roanoke-Blacksburg Regional Airport
Nathan Sanford	Unified Human Serv. Transp. System (RADAR)

**NON-VOTING MEMBERS ABSENT**

Kevin Jones	Federal Highway Administration
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**RVARC Staff Present:** Bryan Hill, Alison Stinnette, Jonathan Stanton, Amanda McGee, Andrea Garland, Jeremy Holmes, and Virginia Mullen.

**TPO POLICY BOARD:** Cities of Roanoke and Salem; Counties of Bedford, Botetourt, Montgomery and Roanoke; Town of Vinton; Greater Roanoke Transit Company (*Valley Metro*); Roanoke-Blacksburg Regional Airport; Virginia Department of Rail & Public Transportation; Virginia Department of Transportation

**3. ACTION REQUESTED: APPROVAL OF CONSENT AGENDA ITEMS**

The following consent agenda items were distributed earlier:

- A. April 13, 2023 TTC Meeting Agenda
- B. March 9, 2023 TTC Minutes

Mr. Bryan Hill requested to add item 6A “Carbon Reduction Plan Funding” to the agenda.

**Motion:** by Mr. Frank Maguire to amend the agenda and add item 6A “Carbon Reduction Plan Funding”; seconded by Mr. Jonathan McCoy.

**TTC Action:** Motion carried unanimously.

**Motion:** by Mr. Maguire to approve the March 9, 2023 TTC Minutes, as presented; seconded by Mr. McCoy.

**TTC Action:** Motion carried unanimously.

**4. CHAIR REMARKS**

- Chair Sexton noted the Regional Commission is currently hiring a Transportation Director, more information can be found on the [Commission’s website](#).
- Chair Sexton noted that Mr. Will Crawford is no longer employed with Roanoke County, and he has accepted a position with the VDOT Salem District Planning Division.

**5. ACTION REQUESTED: APPOINTMENT OF NEW SECRETARY**

Chair Sexton remarked that since the Director of Transportation position is not yet filled, it would be appropriate to appoint an Interim Secretary to the TTC. He nominated Mr. Hill as the interim Secretary, noting that the bylaws state it must be a staff person. The Chair then called for any nominations from the floor. None were made.

**Motion:** by Mr. Michael Gray to appoint Mr. Hill as the interim TTC Secretary; seconded by Mr. Maguire.

**TTC Action:** Motion carried unanimously.

**6. ACTION REQUESTED: RECOMMENDATION ON THE FY2024 UNIFIED PLANNING WORK PROGRAM**

Mr. Hill reminded the Committee of their review of the draft FY24 UPWP at their March meeting. Since then, staff received information about a new federal Carbon Reduction Program (CRP) that will provide the RVTPO with funding to allocate directly to investments that support the goals of the CRP. Administering that program has been added to the UPWP. Additionally developing a Carbon Reduction Strategy will occur concurrently with the Commuter Assistance Program

Strategic Plan effort. Mr. Hill noted the following proposed changes to the staff recommendation on the Unified Planning Work Program:

1. Addition of a five-year update to the 2018 Roanoke Valley Greenway Plan.
2. Removal of the Washington Avenue Corridor Improvement Study and replacing it with a Regional Electric Vehicle Charging Study.
3. Addition of efforts relative to Appalachian National Scenic Trail Virginia's Triple Crown Segment Visitor Use Management (VUM) Plan, participation on the Appalachian Trail Pedestrian Bridge over Route 311 steering committee, and McAfee Knob related activities.

Ms. Megan Cronise thanked staff for their help and assistance with including the additional items to the UPWP.

Mr. Gray proposed the following correction to V.2) Federal Planning Considerations (page 3 of the UPWP):

*Executive Order 14008 and M-21-28 advance environmental justice ~~by stating that 40 percent of Federal investments flow to disadvantaged communities~~ by working toward the goal that at least 40% of the benefits from many grants, programs, and initiatives flow to disadvantaged communities.*

Ms. Cronise asked if it would be better for members to see how the staff recommended changes, and Mr. Gray's recommendation, are incorporated in the draft UPWP. Mr. Hill replied he would be happy to send the updated draft UPWP to TTC members for view prior to the release of the April RVTPO agenda packet.

**Motion:** by Megan Cronise to recommend to the RVTPO Policy Board the approval of the FY24 Unified Planning Work Program with the three changes recommended by staff and Mr. Gray's Justice 40 sentence change recommendation; seconded by Mr. Gray.

**TTC Action:** Motion carried unanimously.

## **6.A CARBON REDUCTION PLAN FUNDING**

Mr. Hill delivered a PowerPoint presentation on FY22 through FY24 available and preliminary allocations to the federal Carbon Reduction Program (CRP and included with the minutes). He asked the Committee to consider recommending three items to the Policy Board:

1. Approval of the FY22 and 23 available and FY24 preliminary (\$1,675,000) CRP funding allocations
  - a. Walnut Avenue Bicycle and Pedestrian Accommodations (5th Street to City/Town Limit) - \$200,000
  - b. Roanoke River Greenway through Explore Park - \$1,275,000

- c. Walnut Avenue Bicycle and Pedestrian Accommodations (W. Lee Avenue to 1st Street) - \$200,000;



*FY 2022-2029 Carbon Reduction Program Financial Plan  
Draft April 13, 2023*

Project	Project UPC	Committed Funding	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29
Walnut Avenue Bicycle and Pedestrian Accommodations (5th Street to City/Town limit)	111649	\$ 200,000	\$ 100,000	\$ 100,000		\$ -	\$ -	\$ -	\$ -	\$ -
Roanoke River Greenway through Explore Park	113567	\$ 1,275,000	\$ 547,332	\$ 354,657	\$ 373,011					\$ -
Walnut Avenue Bicycle and Pedestrian Accommodations (W. Lee Avenue to 1st Street)	113565	\$ 200,000		\$ 100,000	\$ 100,000		\$ -	\$ -	\$ -	\$ -
Total Funding Allocated:		\$ 1,675,000	\$ 647,332	\$ 554,657	\$ 473,011	\$ -	\$ -	\$ -	\$ -	\$ -
Total CRP Funding Available:		\$ 4,742,340	\$ 647,332	\$ 554,657	\$ 561,237	\$ 572,462	\$ 583,911	\$ 595,589	\$ 607,501	\$ 619,651
Balance Entry:		\$ 3,067,340	\$ -	\$ -	\$ 88,226	\$ 572,462	\$ 583,911	\$ 595,589	\$ 607,501	\$ 619,651

- 2. Moving the remaining \$88,226 in CRP funds into Balance Entry; and
- 3. Adjustment of the FY24-29 STBG Financial Plan to facilitate the movement of funds to the CRP.
  - a. Decrease Walnut Avenue Bicycle and Pedestrian Accommodations (5th Street to City/Town limit) funding by \$200,000 for a total allocation of \$2,068,142.
  - b. Decrease Roanoke River Greenway through Explore Park funding by \$1,275,000 for a total of \$3,0020,308.
  - c. Decrease Walnut Avenue Bicycle and Pedestrian Accommodations (W. Lee Avenue to 1st Street) funding by \$200,000 for a total allocation of \$417,610.

Mr. Josh Pratt asked since the three projects are being allocated CRP funds, would that mean that there is STBG money available that need to be reallocated? Chair Sexton answered that the presumption is that the money will be placed in the balance entry to be available for Round 6 in the fall, however he does recall a previous recommendation that when a certain project didn't receive additional funding there was an agreement that if additional funding becomes available that that project will receive it. Chair Sexton and Ms. Cronise suggested that the money be allocated to the Elizabeth Greenway project (City of Salem) instead of Balance Entry.

Chair Sexton commented that the CRP only shows three years of funding allocations and asked if future years and hypothetical amounts will be added to the spreadsheet as well? Ms. Stinnette responded that it would.

**Motion:** by Mr. Maguire to recommend to the RVTPO Policy Board the approval of:

- 1. The Carbon Reduction Plan Funding for FY22 to FY24;
- 2. The adjustments to the STBG Plan as a result of the CRP allocations; and
- 3. The allocation of the funds that became available as a result of the CRP to the Elizabeth Greenway Project, City of Salem; and placing the leftover money in the STBG's Balance Entry.

The motion was seconded by Ms. Cronise.

**TTC Action:** Roll call vote: Ayes - 14 (Fowler, Baker, McCoy, Cronise, Leftwich, Henry, D'Ardenne, McMillan, Sexton, Long, Maguire, Wagner, Gray, Pratt); Nays - 0; Abstentions - 0. Motion carried unanimously.

7. **ACTION REQUESTED: RECOMMENDATION ON AN AMENDMENT TO THE 2045 ROANOKE VALLEY TRANSPORTATION PLAN**

Mr. Hill presented the staff report and highlighted that this amendment and the associated public engagement was being requested for the following reasons:

1. To address the substantial changes in the draft TIP from the first public engagement period (fall 2022).
2. Amend the RVTP to revise an existing transit project with a name and scope change.
3. Amend the RVTP to include a new transit project on the Priority Projects to Pursue list.
4. Amend the RVTP to include three new projects on the Funded Projects list.
5. Amend the RVTP to include a new transit project.

**Motion:** by Mr. Wayne Leftwich to recommend to the RVTPO Policy Board the amendment to the 2045 Roanoke Valley Transportation Plan, as described in the staff report (pages 24 through 39 of the agenda packet); seconded by Mr. McCoy.

**TTC Action:** Motion carried unanimously.

8. **CONGESTION MANAGEMENT PROCESS DRAFT 2023 REPORT**

Mr. Jonathan Stanton gave a PowerPoint presentation on the Congestion Management Process (CMP and included with the minutes). The 2023 annual report includes updates which reflect the adoption of the 2045 Roanoke Valley Transportation Plan (RVTP), progress on congestion management strategies outlined in the CMP, and updated regional congestion trend data.

Chair Sexton asked who or what chooses priority corridors and corridors of concern. Mr. Stanton was uncertain and will follow up with a response.

9. **OTHER BUSINESS**

Chair Sexton announced the 2023 VDOT/DRPT Six-Year Improvement Program meeting will be held on May 16th at 4:00 p.m. at the Salem Civic Center Community Room (1001 Roanoke Blvd., Salem, VA 24153). Mr. Gray added that the comment period on the Commonwealth Transportation Board's website is open.

10. **COMMENTS BY MEMBERS AND / OR CITIZENS**

Mr. Hill reminded members about a virtual presentation from Erin Belt on National Electric Vehicle Infrastructure program funding on April 14th at 11 a.m.

11. **ADJOURNMENT**

The meeting was adjourned at 2:46 p.m.

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Bryan W. Hill, AICP, CZA,  
Interim Secretary, Transportation Technical Committee

# Carbon Reduction Program Available and Preliminary Allocations



U.S. Department  
of Transportation

**Federal Highway  
Administration**

TTC Meeting, Thursday, April 13, 2023

[www.RVTPO.org](http://www.RVTPO.org)



## Introduction to the Carbon Reduction Program

### Carbon Reduction Program (CRP) Purpose:

The purpose of the Carbon Reduction Program (CRP) is to reduce transportation emissions through the development of State carbon reduction strategies and by funding projects designed to reduce transportation emissions.

- Incorporated into federal Law through the IIJA
- Development of a state Carbon Reduction Strategy is required by 11/15/23
- MPOs encouraged to obligate CRP funding toward projects that help implement Virginia's Carbon Reduction Strategy
- RVTPO staff will develop a Carbon Reduction Strategy, to be incorporated in the Roanoke Valley Transportation Plan, at a future date

[www.RVTPO.org](http://www.RVTPO.org)



April 13, 2023 TTC Meeting



# VDOT Guidance and Draft RVTPO Carbon Reduction Program Budget

**VDOT Guidance on expenditure of FY22-24 funding:**

*MPO's are encouraged to apply these funds to existing projects in the SYIP that have cost increases due to inflation or other issues so that the funds can be put to work quickly.*

Fund Type	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	Total
Carbon Roanoke Allocation-Federal (CFRM40)	\$517,866	\$443,726	\$448,990	\$457,970	\$467,129	\$476,471	\$486,001	\$495,721	<b>\$3,276,008</b>
Carbon Roanoke Allocation-Soft Match (CFRM41)	\$129,466	\$110,931	\$112,247	\$114,492	\$116,782	\$119,118	\$121,500	\$123,930	<b>\$ 819,000</b>
<b>Carbon Roanoke Allocation-TOTAL</b>	<b>\$647,332</b>	<b>\$554,657</b>	<b>\$561,237</b>	<b>\$572,462</b>	<b>\$583,911</b>	<b>\$595,589</b>	<b>\$607,501</b>	<b>\$619,651</b>	<b>\$4,742,340</b>

\$1,763,226 available  
in FY22 through FY24  
to allocate currently

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## Selection of Eligible Projects

1. Walnut Avenue Bicycle and Pedestrian Accommodations (5th Street to City/Town Limit)
2. Roanoke River Greenway through Explore Park
3. Walnut Avenue Bicycle and Pedestrian Accommodations (W. Lee Avenue to 1st Street)

**Strategy**

To utilize CRP funding allocated for FY22-FY24 on STBG projects who had funding in previous or out years now due to the project's readiness.

[www.RVTPO.org](http://www.RVTPO.org)



# Draft FY 2022-2029 Carbon Reduction Program Financial Plan

Project	Project UPC	Committed Funding	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29
Walnut Avenue Bicycle and Pedestrian Accommodations (5th Street to City/Town limit)	111649	\$ 200,000			\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -
Roanoke River Greenway through Explore Park	113567	\$ 1,275,000	\$ 647,332	\$ 554,657	\$ 73,011					\$ -
Walnut Avenue Bicycle and Pedestrian Accommodations (W. Lee Avenue to 1st Street)	113565	\$ 200,000		\$ -	\$ 200,000		\$ -	\$ -	\$ -	\$ -
Total Funding Allocated:		\$ 1,675,000	\$ 647,332	\$ 554,657	\$ 473,011	\$ -	\$ -	\$ -	\$ -	\$ -
Total CRP Funding Available:		\$ 4,742,340	\$ 647,332	\$ 554,657	\$ 561,237	\$ 572,462	\$ 583,911	\$ 595,589	\$ 607,501	\$ 619,651
Balance Entry:		\$ 3,067,340	\$ -	\$ -	\$ 88,226	\$ 572,462	\$ 583,911	\$ 595,589	\$ 607,501	\$ 619,651

[www.RVTPO.org](http://www.RVTPO.org)



## Rationale for Moving Funds between STBG and CRP

- The identified recipient projects were recently allocated additional RSTP/STBG funds by the TPO Board.
- These newly allocated funds have not been placed under project administration agreement yet with Roanoke County or Vinton.
- These projects are all eligible for Carbon Reduction funding.
- The schedules for these projects support immediate allocation and obligation of the Carbon Reduction funds.
- Allocation of Carbon Reduction funds will free up additional RSTP/STBG funds for programming by the TPO.

[www.RVTPO.org](http://www.RVTPO.org)



April 13, 2023 TTC Mtg.

## CRP FY25-29 Application Process: Concurrent with STBG Round 6

- Staff will develop a Carbon Reduction Strategy in the coming months, to align with the state.
- The CRP application process will be combined with STBG, which occurs later in 2023.

[www.RVTPO.org](http://www.RVTPO.org)



**FY 2024-2029 Surface Transportation Block Grant (STBG) Financial Plan**  
Draft April 13, 2023

Project	Project UPC	Conditionally Committed Funding	Committed Funding	Previous Allocations	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29
Roanoke River Greenway - West Riverside Drive Trailhead to Kingsmill Drive	97171		\$ 7,343,229	\$ 7,343,229	\$ 39,170	\$ 359,853	\$ 125,000	\$ 379,400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Roanoke River Greenway - City of Salem line to Bridge Street	105439		\$ 4,363,800	\$ 4,363,800	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Roanoke River Greenway - 1800' north of Highland Road to Highland Road	91191		\$ 1,505,371	\$ 1,505,371	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tinker Creek Trail Extension Phase 2A - Mason Mill Park to 13th Street	110101		\$ 1,613,523	\$ 1,613,523	\$ 490,385										
Tinker Creek Trail Extension Phase 2B - 13th Street to Orange Avenue	TBD		\$ 1,613,524	\$ 1,613,524	\$ 439,762	\$ 749,779		\$ 423,983	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tinker Creek Trail Extension Phase 2C - Orange Avenue to Wise Avenue	TBD		\$ 1,589,254	\$ 514,712				\$ 514,712	\$ 509,207	\$ 402,505	\$ 162,830	\$ -	\$ -	\$ -	\$ -
Bus Replacement and Rebuild Program	T18675		\$ 13,622,784	\$ 13,622,784	\$ 1,973,532	\$ 2,003,060	\$ 1,955,439	\$ 1,955,439	\$ 2,049,274	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Walnut Avenue Bicycle and Pedestrian Accommodations (5th Street to City/Town limit)	111649		\$ 2,068,142	\$ 2,068,142	\$ 131,898	\$ -	\$ 1,250,982	\$ 384,112	\$ 237,748	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Route 419/U.S. 220 Diverging Diamond Interchange	115460		\$ 5,731,866	\$ 2,358,621	\$ 18,458	\$ 129,861	\$ 640,449	\$ 535,198	\$ 87,225	\$ 1,098,627	\$ 1,223,223	\$ 1,051,395	\$ -	\$ -	\$ -
Roanoke River Greenway through Explore Park	113567		\$ 3,020,308	\$ 1,209,993	\$ -	\$ 431,678	\$ -	\$ 384,378	\$ 393,937	\$ 1,810,315					
Walnut Avenue Bicycle and Pedestrian Accommodations (W. Lee Avenue to 1st Street)	113565		\$ 417,610	\$ 417,610	\$ 336,110	\$ 69,500	\$ -	\$ 12,000	\$ -			\$ -	\$ -	\$ -	\$ -
Route 220 at International Parkway Improvements	115457		\$ 300,000	\$ 300,000	\$ -	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Starkey Road/Buck Mountain Road Intersection Improvements	113144		\$ 2,098,115	\$ 1,088,879	\$ -	\$ -	\$ -	\$ 30,327	\$ 778,090	\$ 575,034	\$ 434,202	\$ -	\$ -	\$ -	\$ -
Elizabeth Greenway	113566		\$ 1,104,400	\$ 1,104,400	\$ -	\$ 106,168	\$ 84,900	\$ -	\$ 913,332	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
New Downtown Transit Transfer Center - Real-Time Transit Passenger Information (RTPI) Project	TBD		\$ 400,000	\$ 400,000		\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Route 220 Superstreet and Access Management	T24740		\$ 924,000	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 924,000
Orange Market Park and Ride/Parking Lot Improvements	T24579		\$ 343,573	\$ 343,573	\$ 336,982	\$ 6,591	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Route 419 Streetscape Improvements, Phase 2	119462		\$ 4,347,150	\$ -			\$ -	\$ -	\$ -	\$ 194,193	\$ 1,616,639	\$ 2,358,948	\$ 177,370	\$ -	\$ -
Roanoke River Greenway - East	119666		\$ 710,000	\$ 710,000	\$ -	\$ 710,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Aviation Drive/Valley View Blvd. Pedestrian Improvements	119555		\$ 131,332	\$ -			\$ -	\$ -	\$ -	\$ 125,000	\$ 6,332	\$ -	\$ -	\$ -	\$ -
Valleypointe Parkway Realignment	119468		\$ 2,500,000	\$ -			\$ -	\$ -	\$ -	\$ 100,000	\$ 692,293	\$ 479,769	\$ 1,227,938	\$ -	\$ -
Gus Nicks Boulevard Pedestrian/Bicycle Crossing	119911		\$ 403,912	\$ 403,912	\$ 234,262		\$ 169,650	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Greenway Connection - Riverland Road	119586		\$ 975,568	\$ 975,568	\$ 154,000	\$ 76,480	\$ 354,941	\$ 330,147	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Oak Grove Streetscape Improvements - Crosswalk	122050		\$ 218,748	\$ 218,748	\$ 82,000		\$ 136,748	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Orange Avenue Improvements - Hickory Woods Drive to Blue Hills Village Drive	122120		\$ 1,227,000	\$ -					\$ -	\$ -	\$ -	\$ -	\$ 1,227,000	\$ -	\$ -
Route 460 Intersections - W. Ruritan Road to Huntridge Road	122110		\$ 1,213,352	\$ -					\$ -	\$ -	\$ -	\$ -	\$ 1,213,352	\$ -	\$ -
Route 460 and Alternate Route 220 Intersection Improvements	120611		\$ 2,544,860	\$ 486,592				\$ 486,592	\$ 325,000	\$ 740,761	\$ 992,507	\$ -	\$ -	\$ -	\$ -
I-581/U.S. 460/U.S. 11 Improvements	TBD		\$ 7,000,000	\$ -					\$ -	\$ -	\$ -	\$ 320,147	\$ 1,445,553	\$ 349,319	\$ 4,884,981
Orange Ave. (U.S. 460) - 11th to 24th St. Improvements	TBD		\$ 5,000,000	\$ -					\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000	\$ -
I-581 at Exit 2 (Peters Creek Road) Interchange Improvements, Phase 1	TBD		\$ 4,058,056	\$ -					\$ -	\$ 449,713	\$ 721,523	\$ 917,388	\$ 951,343	\$ 1,018,089	\$ -
Glade Creek Greenway, Phase 3 PE	TBD		\$ 275,000	\$ 275,000				\$ 275,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Funding Allocated:</b>			\$ 86,088,158	\$ 50,870,869	\$ 5,072,488	\$ 5,180,623	\$ 5,018,109	\$ 4,949,696	\$ 5,730,405	\$ 5,080,387	\$ 5,597,803	\$ 6,120,154	\$ 6,242,556	\$ 6,367,408	\$ 5,808,981
<b>Total STBG Funding Available:</b>			\$ 88,542,050	\$ 51,204,144	\$ 5,075,163	\$ 5,180,623	\$ 5,018,109	\$ 5,280,296	\$ 5,730,405	\$ 5,919,023	\$ 6,037,403	\$ 6,158,150	\$ 6,281,313	\$ 6,406,939	\$ 6,535,078
<b>Balance Entry (UPC 104126):</b>			\$ 2,453,892	\$ 333,275	\$ 2,675	\$ -	\$ -	\$ 330,600	\$ -	\$ 838,636	\$ 439,600	\$ 37,996	\$ 38,757	\$ 39,531	\$ 726,097

**FY 2024-2029 Surface Transportation Block Grant (STBG) Financial Plan**  
 Draft April 14, 2023

Project	Project UPC	Conditionally Committed Funding	Committed Funding	Previous Allocations	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29
Roanoke River Greenway - West Riverside Drive Trailhead to Kingsmill Drive	97171		\$ 7,343,229	\$ 7,343,229	\$ 39,170	\$ 359,853	\$ 125,000	\$ 379,400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Roanoke River Greenway - City of Salem line to Bridge Street	105439		\$ 4,363,800	\$ 4,363,800	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Roanoke River Greenway - 1800' north of Highland Road to Highland Road	91191		\$ 1,505,371	\$ 1,505,371	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tinker Creek Trail Extension Phase 2A - Mason Mill Park to 13th Street	110101		\$ 1,613,523	\$ 1,613,523	\$ 490,385										
Tinker Creek Trail Extension Phase 2B - 13th Street to Orange Avenue	TBD		\$ 1,613,524	\$ 1,613,524	\$ 439,762	\$ 749,779		\$ 423,983	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tinker Creek Trail Extension Phase 2C - Orange Avenue to Wise Avenue	TBD		\$ 1,589,254	\$ 514,712				\$ 514,712	\$ 509,207	\$ 402,505	\$ 162,830	\$ -	\$ -	\$ -	\$ -
Bus Replacement and Rebuild Program	T18675		\$ 13,622,784	\$ 13,622,784	\$ 1,973,532	\$ 2,003,060	\$ 1,955,439	\$ 1,955,439	\$ 2,049,274	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Walnut Avenue Bicycle and Pedestrian Accommodations (5th Street to City/Town limit)	111649		\$ 2,068,142	\$ 2,068,142	\$ 131,898	\$ -	\$ 1,250,982	\$ 384,112	\$ 237,748	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Route 419/U.S. 220 Diverging Diamond Interchange	115460		\$ 5,731,866	\$ 2,358,621	\$ 18,458	\$ 129,861	\$ 640,449	\$ 535,198	\$ 87,225	\$ 1,098,627	\$ 1,223,223	\$ 1,051,395	\$ -	\$ -	\$ -
Roanoke River Greenway through Explore Park	113567		\$ 3,020,308	\$ 1,209,993	\$ -	\$ 431,678	\$ -	\$ 384,378	\$ 393,937	\$ 1,810,315	\$ -	\$ -	\$ -	\$ -	\$ -
Walnut Avenue Bicycle and Pedestrian Accommodations (W. Lee Avenue to 1st Street)	113565		\$ 417,610	\$ 417,610	\$ 336,110	\$ 69,500	\$ -	\$ 12,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Route 220 at International Parkway Improvements	115457		\$ 300,000	\$ 300,000	\$ -	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Starkey Road/Buck Mountain Road Intersection Improvements	113144		\$ 2,098,115	\$ 1,088,879	\$ -	\$ -	\$ -	\$ 30,327	\$ 778,090	\$ 575,034	\$ 434,202	\$ -	\$ -	\$ -	\$ -
Elizabeth Greenway	113566		\$ 2,101,261	\$ 1,437,675	\$ 2,675	\$ 106,168	\$ 84,900	\$ 330,600	\$ 913,332	\$ 663,586	\$ -	\$ -	\$ -	\$ -	\$ -
New Downtown Transit Transfer Center - Real-Time Transit Passenger Information (RTPI) Project	TBD		\$ 400,000	\$ 400,000		\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Route 220 Superstreet and Access Management	T24740		\$ 924,000	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 924,000
Orange Market Park and Ride/Parking Lot Improvements	T24579		\$ 343,573	\$ 343,573	\$ 336,982	\$ 6,591	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Route 419 Streetscape Improvements, Phase 2	119462		\$ 4,347,150	\$ -			\$ -	\$ -	\$ -	\$ 194,193	\$ 1,616,639	\$ 2,358,948	\$ 177,370	\$ -	\$ -
Roanoke River Greenway - East	119666		\$ 710,000	\$ 710,000	\$ -	\$ 710,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Aviation Drive/Valley View Blvd. Pedestrian Improvements	119555		\$ 131,332	\$ -			\$ -	\$ -	\$ -	\$ 125,000	\$ 6,332	\$ -	\$ -	\$ -	\$ -
Valleypointe Parkway Realignment	119468		\$ 2,500,000	\$ -			\$ -	\$ -	\$ -	\$ 100,000	\$ 692,293	\$ 479,769	\$ 1,227,938	\$ -	\$ -
Gus Nicks Boulevard Pedestrian/Bicycle Crossing	119911		\$ 403,912	\$ 403,912	\$ 234,262		\$ 169,650	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Greenway Connection - Riverland Road	119586		\$ 975,568	\$ 975,568	\$ 154,000	\$ 76,480	\$ 354,941	\$ 330,147	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Oak Grove Streetscape Improvements - Crosswalk	122050		\$ 218,748	\$ 218,748	\$ 82,000		\$ 136,748	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Orange Avenue Improvements - Hickory Woods Drive to Blue Hills Village Drive	122120		\$ 1,227,000	\$ -					\$ -	\$ -	\$ -	\$ -	\$ 1,227,000	\$ -	\$ -
Route 460 Intersections - W. Ruritan Road to Huntridge Road	122110		\$ 1,213,352	\$ -					\$ -	\$ -	\$ -	\$ -	\$ 1,213,352	\$ -	\$ -
Route 460 and Alternate Route 220 Intersection Improvements	120611		\$ 2,544,860	\$ 486,592				\$ 486,592	\$ 325,000	\$ 740,761	\$ 992,507	\$ -	\$ -	\$ -	\$ -
I-581/U.S. 460/U.S. 11 Improvements	TBD		\$ 7,000,000	\$ -					\$ -	\$ -	\$ -	\$ 320,147	\$ 1,445,553	\$ 349,319	\$ 4,884,981
Orange Ave. (U.S. 460) - 11th to 24th St. Improvements	TBD		\$ 5,000,000	\$ -					\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000	\$ -
I-581 at Exit 2 (Peters Creek Road) Interchange Improvements, Phase 1	TBD		\$ 4,058,056	\$ -					\$ -	\$ 449,713	\$ 721,523	\$ 917,388	\$ 951,343	\$ 1,018,089	\$ -
Glade Creek Greenway, Phase 3 PE	TBD		\$ 275,000	\$ 275,000				\$ 275,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Funding Allocated:</b>			\$ 87,085,019	\$ 51,204,144	\$ 5,075,163	\$ 5,180,623	\$ 5,018,109	\$ 5,280,296	\$ 5,730,405	\$ 5,743,973	\$ 5,597,803	\$ 6,120,154	\$ 6,242,556	\$ 6,367,408	\$ 5,808,981
<b>Total STBG Funding Available:</b>			\$ 88,542,050	\$ 51,204,144	\$ 5,075,163	\$ 5,180,623	\$ 5,018,109	\$ 5,280,296	\$ 5,730,405	\$ 5,919,023	\$ 6,037,403	\$ 6,158,150	\$ 6,281,313	\$ 6,406,939	\$ 6,535,078
<b>Balance Entry (UPC 104126):</b>			\$ 1,457,031	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 175,050	\$ 439,600	\$ 37,996	\$ 38,757	\$ 39,531	\$ 726,097



# Congestion Management Process 2023 Report

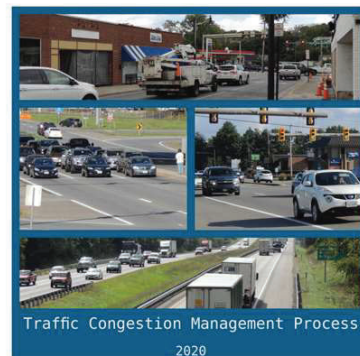


TTC Meeting: April 13, 2023

[www.rvarc.org](http://www.rvarc.org)

## Background

- Traffic Congestion Management Process (CMP) last adopted by TPO in 2020
- Required since 2010 census
- Yearly CMP updates highlight congestion trends and progress



# 2023 Updates

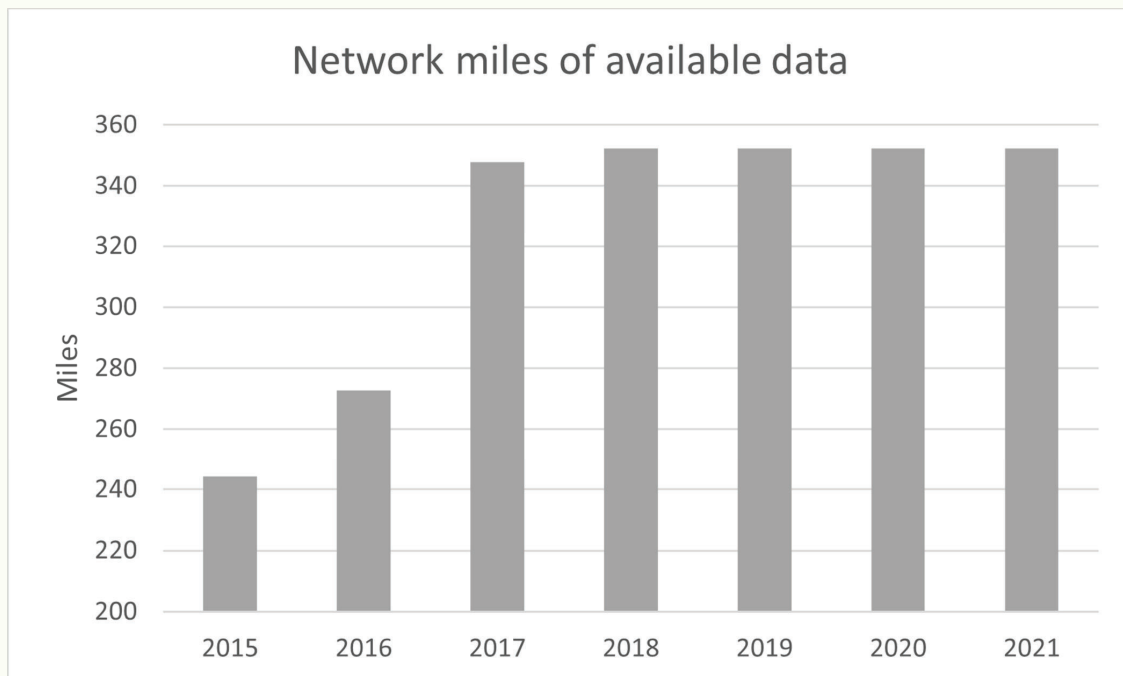
- Reviewed and updated strategy progress
- Added supporting information: Multimodal centers and districts, UDAs, new development patterns (appendix B)
- Changes to how congestion trends are tracked and visualized

5/1/2023

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## Congestion Data

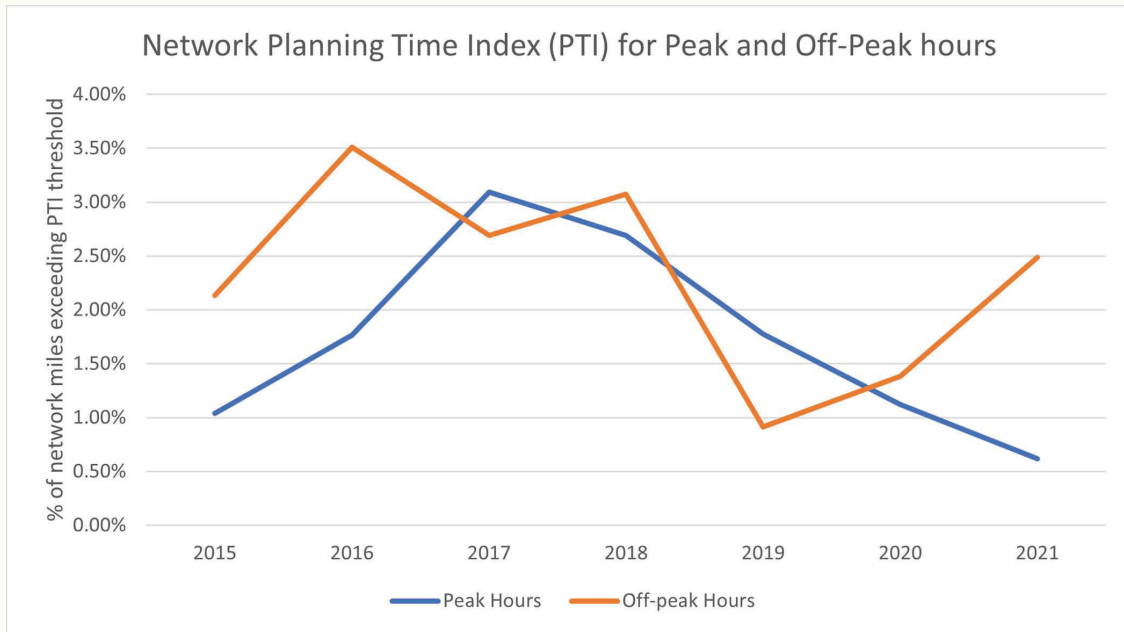


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# Congestion Data

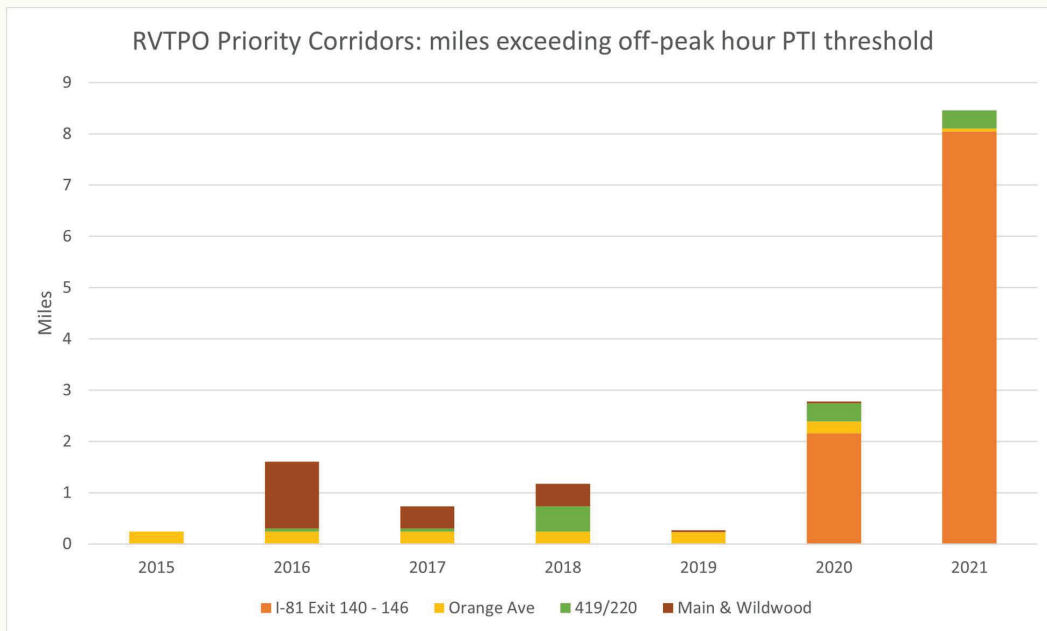


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# Congestion Data



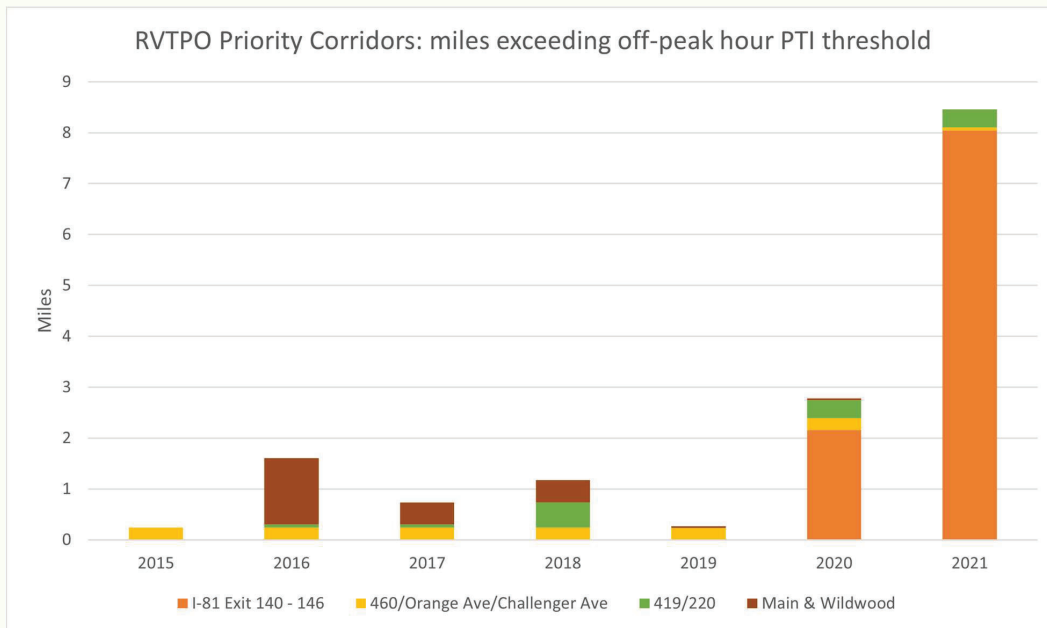
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# Congestion Data

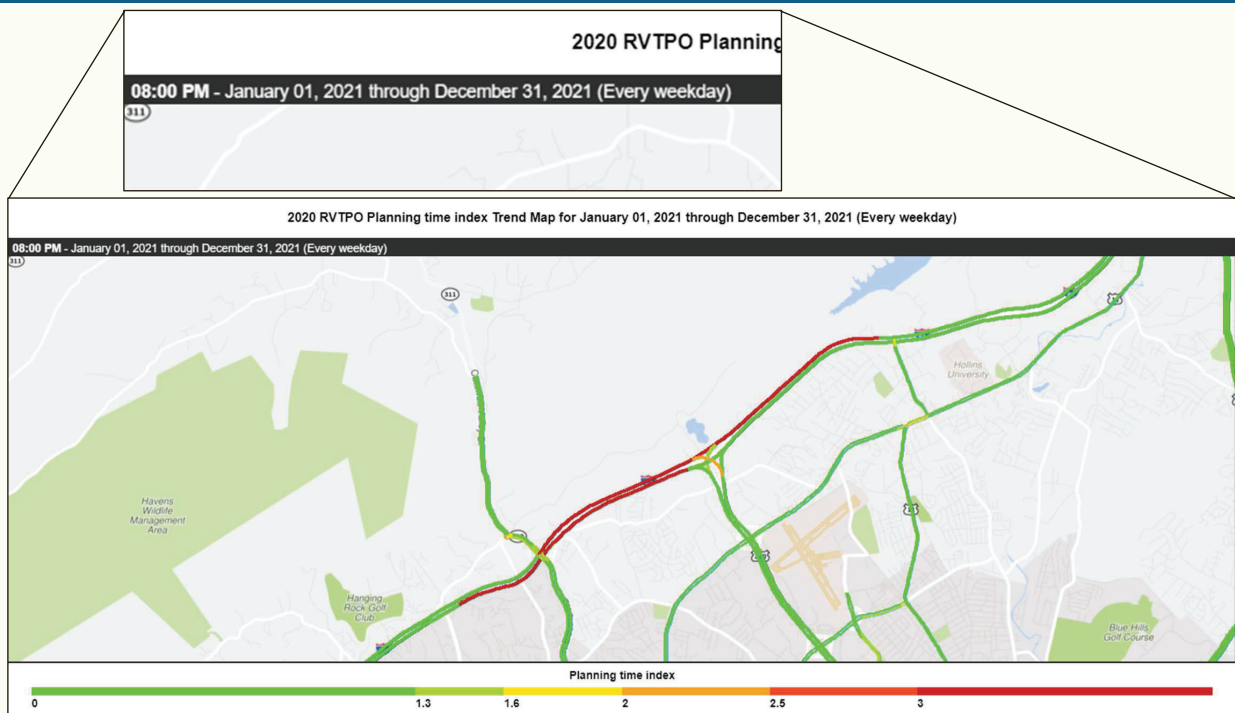


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# Congestion Data



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# Coordination with RVTP

- How will the RVTP and Congestion Management process support each other?
- How will the RVTP influence changes to CMP strategies?

5/1/2023

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# Conclusion

Missed something?

- Will accept progress/updates in any format before TPO meeting

Jonathan Stanton  
*Transportation Planner II*  
[jstanton@rvarc.org](mailto:jstanton@rvarc.org)

5/1/2023

[www.rvarc.org](http://www.rvarc.org)

**STAFF BRIEFING**  
**TTC Meeting May 11, 2023**

**SUBJ: 2020 Census Urbanized Areas Update and Changes to the Roanoke Valley TPO Area.**

Each decennial Census, urban and rural areas are defined and calculated. The final definitions and areas are used by Federal, State, Regional, and Local agencies when applying policies, grants, and funding across the United States. The 2020 Census changed the minimum population threshold for urbanized areas, increasing the minimum population from 2,500 to 5,000. The 2020 Census also added a minimum housing unit qualification of 2,000 housing units for areas such as seasonal towns. Further, the extent of urbanized areas were defined by the following density thresholds:

- 425 housing units per square mile define the initial urban core.
- 200 units per square mile fill the remainder of the urban area.
- 1,275 housing units per square mile ensures each qualifying urban area contains at least one high density nucleus.

Additional information about changes to the definition of urban areas for 2020 can be found on the US Census website at this address: <https://www.census.gov/newsroom/blogs/random-samplings/2022/12/redefining-urban-areas-following-2020-census.html>

The effects of changes to qualifying and threshold values on the Roanoke urbanized area are minor for the urban core but resulted in changes to the boundary areas of the urban area. Population and Population density (measured as population per square mile) both increased in Roanoke between 2010 and 2020:

- Roanoke urbanized area 2010 population and density: 210,111 and 1,692.0
- Roanoke urbanized area 2020 population and density: 217,312 and 1,731.6

Figure 1 (below) is an export from the FTA 2020 census map which can be accessed by following the link located on this page: <https://www.transit.dot.gov/ntd/fta-census-map>.

Roanoke Urbanized Area changes from 2010 - 2020

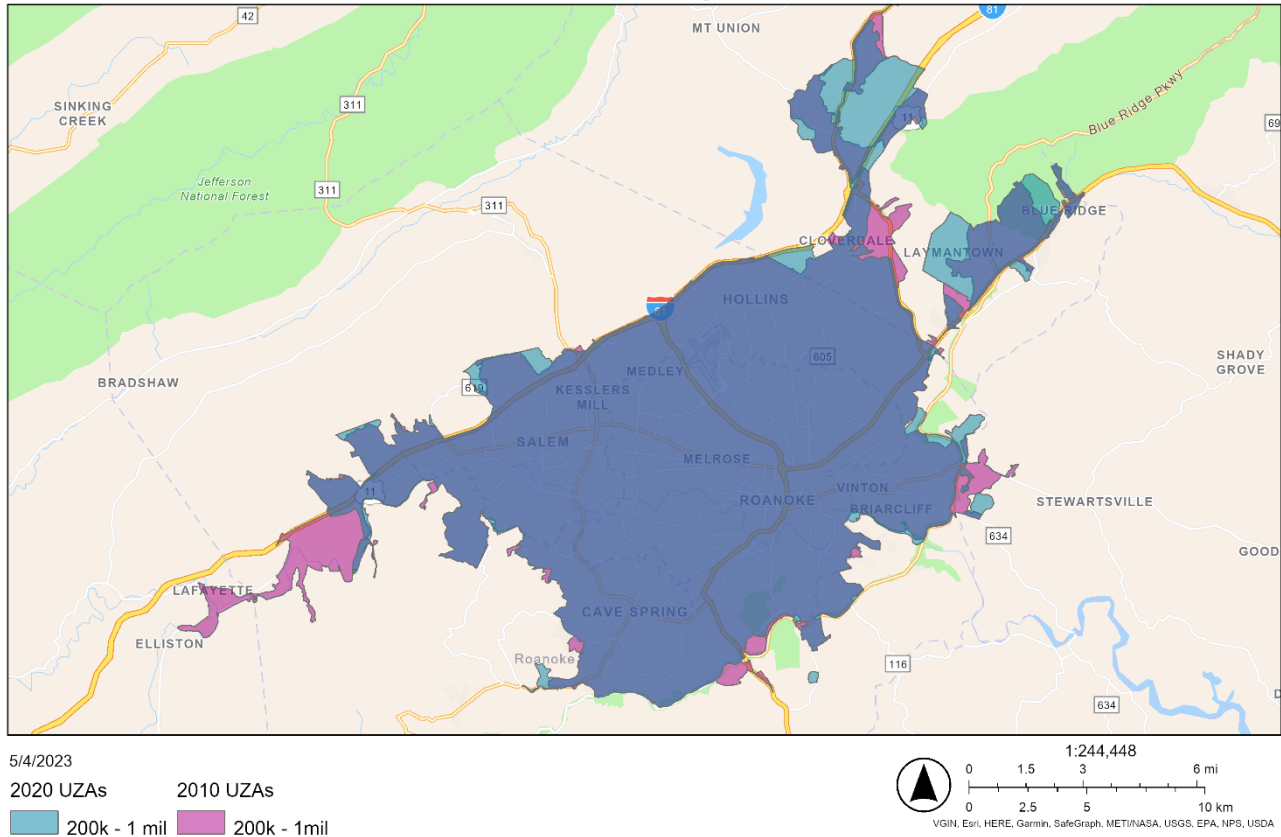


Figure 1: FTA Census Map of Roanoke Urbanized Area 2010 and 2020 boundary

Figure 2 (below) is a screenshot which shows the 2020 Census Roanoke urbanized area and the Roanoke Valley TPO area. The interactive map source may be found at the following link:

<https://rvarc.maps.arcgis.com/apps/instant/sidebar/index.html?appid=7f63191f1acc4b46b70e294ccf3295e5>

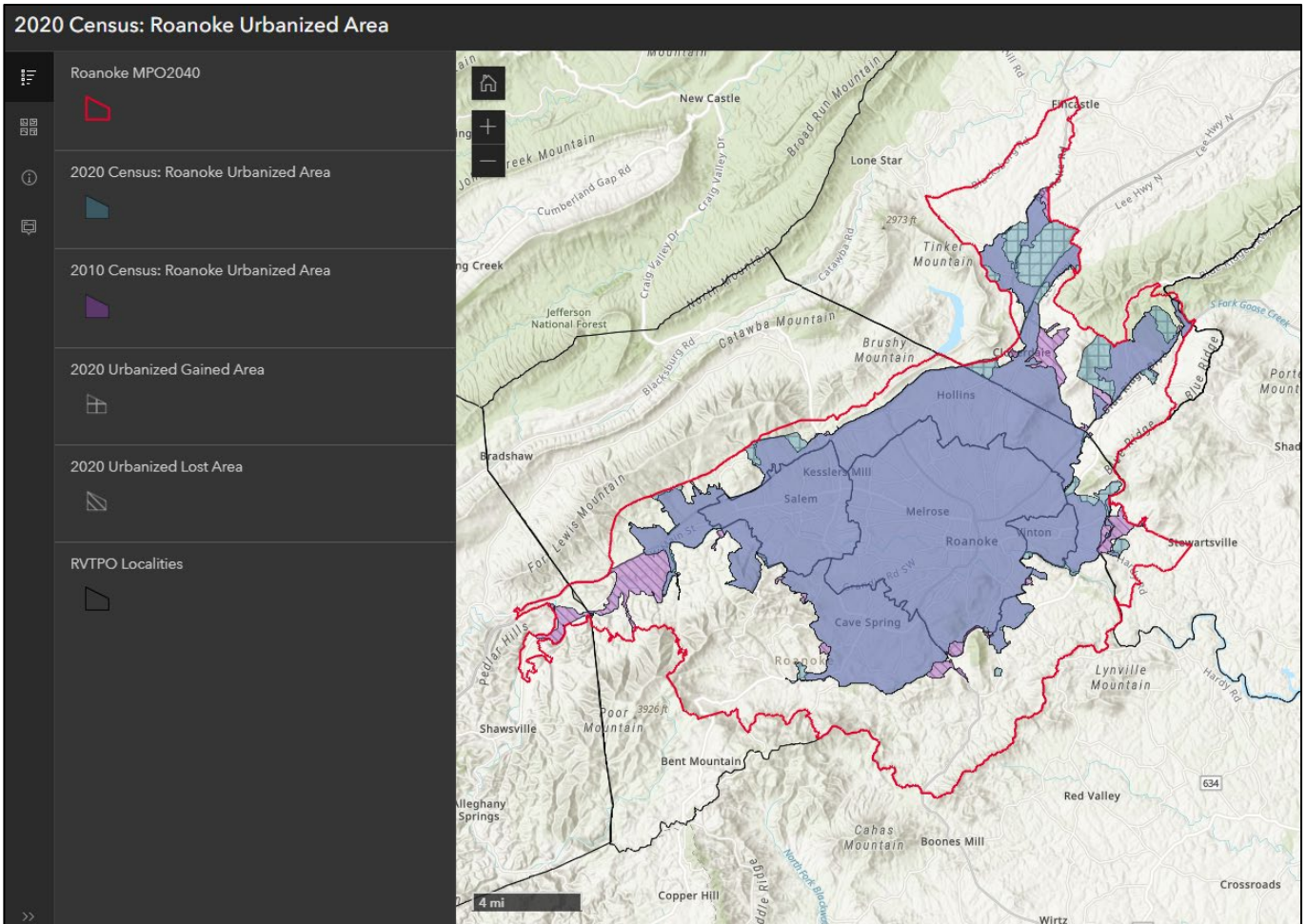


Figure 2: US Census boundaries, counties, and RVTPO area as seen on ArcGIS web map.

**TTC Action:**  
None.