

MPO Governing Board

May 18, 2023 – 1:00 P.M., Hybrid Meeting, In-Person at Land of Sky Regional Council or
Via Zoom

Login: <https://us06web.zoom.us/j/83455778548>

Meeting ID: 83455778548

Call-In: (312)626-6799

Agenda

1. **WELCOME AND HOUSEKEEPING (10 min)**

A. Welcome and Introductions, Approval of Agenda	Anthony Sutton
B. Ethics Statement for MPO Board Members	Anthony Sutton
 2. **PUBLIC COMMENT**

 3. **CONSENT AGENDA**

A. May, 2023 Board Minutes	Anthony Sutton
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 4. **BUSINESS (45-60 min)**

A. Modifications to 5310 Programming	MPO Staff
B. Modifications to JARC Programming	MPO Staff
C. PM 2 & PM 3 Performance Targets	MPO Staff
D. Amendments to the 2020-2029 Transportation Improvement Program (TIP)	MPO Staff
E. Congestion Management Process (CMP) Biennial Report	MPO Staff
 5. **INFORMATIONAL ITEMS (10-20 min)**

A. Draft 2024-2033 Transportation Improvement Program (TIP)	MPO Staff
B. Regional Trails Forum	MPO Staff
 6. **REGULAR UPDATES (15 min)**

A. NCDOT Division 13 and 14 updates	Tim Anderson/Wanda Austin or Designee
B. Transportation Planning Branch	Daniel Sellers
C. FHWA/FTA Updates	Bill Marley
D. Subcommittee/Workgroup Reports, Staff Updates, and Housekeeping	MPO Staff
E. Legislative Updates	MPO Staff
 7. **ANNOUNCEMENTS, NEWS, SPECIAL UPDATES (5 min)**
 8. **TOPICS FOR NEXT MEETING**
 9. **PUBLIC COMMENT**
 10. **ADJOURNMENT**
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a program of Land of Sky

FRENCH BROAD RIVER

METROPOLITAN PLANNING ORGANIZATION

MPO Governing Board

Item 3:

Consent Agenda

Item 3A: March, 2023 Meeting Minutes

FRENCH BROAD RIVER

METROPOLITAN PLANNING ORGANIZATION

Staff Report & Recommendations

Item 3A:

March, 2023 Meeting Minutes

Available here: https://frenchbroadrivermpo.org/wp-content/uploads/2023/05/2023_3_16_MPO.DRAFT_Board_Minutes.pdf

Staff Report & Recommendations

Item 4A:

Modifications to 5310 Programming

The City of Asheville's FY2022 allocation of 5310 funding is proposed to increase from \$210,000 to \$223,471, a \$13,471 increase.

This funding increase reflects corrections to funding amounts listed at the January 19, 2023 MPO Board meeting (shown below), as MPO staff noted shortly afterward that Buncombe County's \$57,720 and City of Asheville's \$210,000 (\$267,720 total) was only 52% of total 5310 funds; FTA rules require a minimum of 55% of total funds allocated to Traditional Projects:

		Buncombe County RIDE (Other)	Buncombe County SEDTAP (Trad)	City of Asheville Paratransit (Trad)	LOSRC Senior Companions (Other)	Madison County Transportation Authority (Other)
	Score (out of 100 points)	90	95	95	83	85
1/10/23 Alt. - City of Asheville forgoes 10% Admin. set-aside (gets 6% instead); all projects 100% funded	Requested Amount	\$42,482	\$57,720	\$210,000	\$136,620	\$33,414
	Funded Amount	\$42,482	\$57,720	\$210,000	\$136,620	\$33,414
	Funded Amount, Percent of Total Funding Available	18.47%	20.53%	74.68%	59.38%	14.52%

MPO Staff communicated this funding change to City of Asheville staff and the following funding changes are proposed:

- The City of Asheville's 5310 (Traditional) funding will increase from \$210,000 to \$223,471.
- The City of Asheville will receive the 5310 fund balance, \$17,550, for administrative costs.
NOTE: The City of Asheville has previously received 10% of 5310 funds for administrative costs, but will receive 3% of 5310 funds in this cycle.
- Funding levels for all other entities remain the same.

The table below summarizes currently proposed funding levels.

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		Buncombe County RIDE (Other)	Buncombe County SEDTAP (Trad)	City of Asheville Paratransit (Trad)	LOSRC Senior Companions (Other)	Madison County Transportation Authority (Other)
	Score (out of 100 points)	90	95	95	83	85
2/27/23 Alt. - City of Asheville forgoes 10% Admin. set-aside (gets \$17,550/3% instead); all projects 100% funded	Requested Amount	\$42,482	\$57,720	\$223,471	\$136,620	\$33,414
	Funded Amount	\$42,482	\$57,720	\$223,471	\$136,620	\$33,414
	Funded Amount, Percent of Total Funding Available	18.47%	20.53%	79.47%	59.38%	14.52%

TCC Recommendation: Fund the 5310 projects at their requested funding levels and allocate the remaining 5310 funds (\$17,550, or 3% of total funds) to the City of Asheville for administration of 5310 funds to sub-recipients.

Action: Consider approval of the proposed funding modifications

FRENCH BROAD RIVER

METROPOLITAN PLANNING ORGANIZATION

RESOLUTION TO APPROVE SELECTED PROJECTS FOR SECTION 5310 FUNDING AVAILABLE FOR THE FBRMPO URBANIZED AREA

WHEREAS, the City of Asheville is the designated recipient for Section 5310 (Enhanced Mobility of Seniors and Individuals with Disabilities) funds in our region; and

WHEREAS, the FBRMPO held a call for projects to program FY 2022 Section 5310 funds allocated to the urbanized areas of our region in the Fall of 2022; and

WHEREAS, these projects were selected with the help of the MPO Prioritization Subcommittee and 5307 Sub-Recipients Work Group made up of representatives from the MPO TCC and Board;

NOW THEREFORE, BE IT RESOLVED that the Board of the French Broad River Metropolitan Planning Organization hereby approves the following projects for Section 5310 funding;

(NOTE: This reflects an increased amount for City of Asheville, from \$210,000 [MPO Board approved 1/19/23] to \$223,471, in order to meet FTA requirements that at least 55% of 5310 funds be spent on Traditional projects (i.e. paratransit service) Funding for admin. fee decreased from 6% to 3% of funds. Updates in *italics*, below).

Project Sponsor	Project Description	Federal Funding Approved
<i>City of Asheville</i>	<i>ADA Paratransit acquisition of services</i>	\$ 223,471
Buncombe County	Buncombe County Additional Elderly and Disabled Transportation	\$ 57,720
Buncombe County	RIDE Vouchers Program-Support for Taxi Services for Individuals with Disabilities	\$ 42,482
Land of Sky Regional Council Senior Companions Program (SCP)	Maintenance of Senior Companion Program in Buncombe and Henderson	\$ 136,620
Madison County	Madison County Senior Transportation to Meal Sites	\$ 33,414
<i>City of Asheville</i>	<i>5310 Administrative Fee at 3%</i>	\$ 17,550

ADOPTED: This the 18th day of May, 2023

Anthony Sutton, FBRMPO Board Chair

Attest, Tristan Winkler, Director
French Broad River MPO

Staff Report & Recommendations

Item 4B:

Modifications to JARC Programming

The City of Asheville's FY2022 allocation of 5307/JARC funding is proposed to increase from \$254,270 to \$408,394, a \$153,674 increase.

In recent years, MPO policy has been to allocate 10% of regional 5307 funds (FTA Urbanized Area Formula Grants, \$4,083,938 for Asheville UZA in FY2022) for JARC projects.

The initial \$254,270 of JARC funding will fund Asheville Rides Transit (ART) Bus Route 170, which provides service between downtown Asheville and downtown Black Mountain.

The remaining \$153,674 of JARC funding will fund ART Bus Route S3, which provides service between downtown Asheville and the WNC Agricultural Center (adjacent to and serving Asheville Regional Airport). Asheville City Council approved the funding increase at their March 28, 2023 city council meeting.

TCC Recommendation: Approve updated JARC funding request from City of Asheville.

Action: Consider Approval of the updated JARC funding request from City of Asheville.

RESOLUTION TO APPROVE SELECTED PROJECTS FOR JARC FUNDING AVAILABLE FOR THE FBRMPO URBANIZED AREA

WHEREAS, the City of Asheville is the designated recipient for FTA Section 5307 (Urbanized Area) funds in our region; and

WHEREAS, the FBRMPO has approved setting aside 10% of FTA Section 5307 funding as JARC (Jobs Access Reverse Commute) program; and

WHEREAS, the FBRMPO held a call for projects to program FY 2022 JARC funds allocated to the urbanized areas of our region in the Fall of 2022; and

WHEREAS, these projects were selected with the help of the MPO prioritization subcommittee and 5307 Sub-Recipients Work Group made up of representatives from the MPO TCC and Board;

NOW THEREFORE, BE IT RESOLVED that the Board of the French Broad River Metropolitan Planning Organization hereby approves the following projects for JARC funding;

(NOTE: This reflects an increased amount for City of Asheville, from \$254,720 [MPO Board approved 1/19/23] to \$408,394. The \$408,394 amount is the total amount of JARC funding available for the FY 2022 funding cycle.)

Project Sponsor	Project Description	Federal Funding Approved
City of Asheville	City of Asheville Black Mountain Transit Route 170- Continued Support for Operations	\$ 254,720
City of Asheville	City of Asheville, downtown Asheville to WNC Agricultural Center transit route, Route S3- Continued Support for Operations	\$ 153,674

ADOPTED: This the 18th day of May, 2023

Anthony Sutton, FBRMPO Board Chair

Attest, Tristan Winkler, Director
FBRMPO

Item 4C:

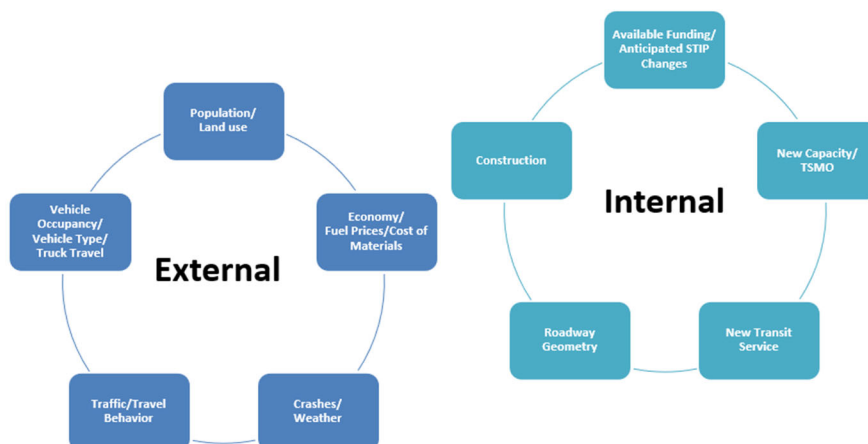
PM2 & PM3 Performance Targets

NCDOT reported its 2-year and 4-year statewide targets for the federally required performance measures for pavement condition, bridge condition, travel time reliability, truck freight reliability, and CMAQ on December 15, 2022. The 2-year targets represent performance at the end of calendar year 2023, while the 4-year targets reflect performance at the end of 2025.

NCDOT set these targets taking into account recent performance trends, current and planned STIP projects, and variables that influence the measures in each performance area. The primary considerations taken into account when establishing these targets are:

- The State's economic growth and resulting VMT trends in recent years are **expected to continue over the next several years.**
- Projects and funding levels in the STIP are unlikely to **significantly change performance over the next 2-4 years.**
- Project **costs over the past two years have increased significantly** due to inflation and a great deal of uncertainty remains about costs and economic conditions over next four years.
- Given these factors, the targets maintain a **conservative and balanced stance given the unknowns.** NCDOT will continue to monitor and report performance on a regular basis and has an opportunity to assess performance after 2023 and adjust the 2025 targets if necessary.

Factors Influencing Performance



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FHWA

What will performance look like in 2023 and 2025?

New travel patterns vs. return to pre-2020 equilibrium

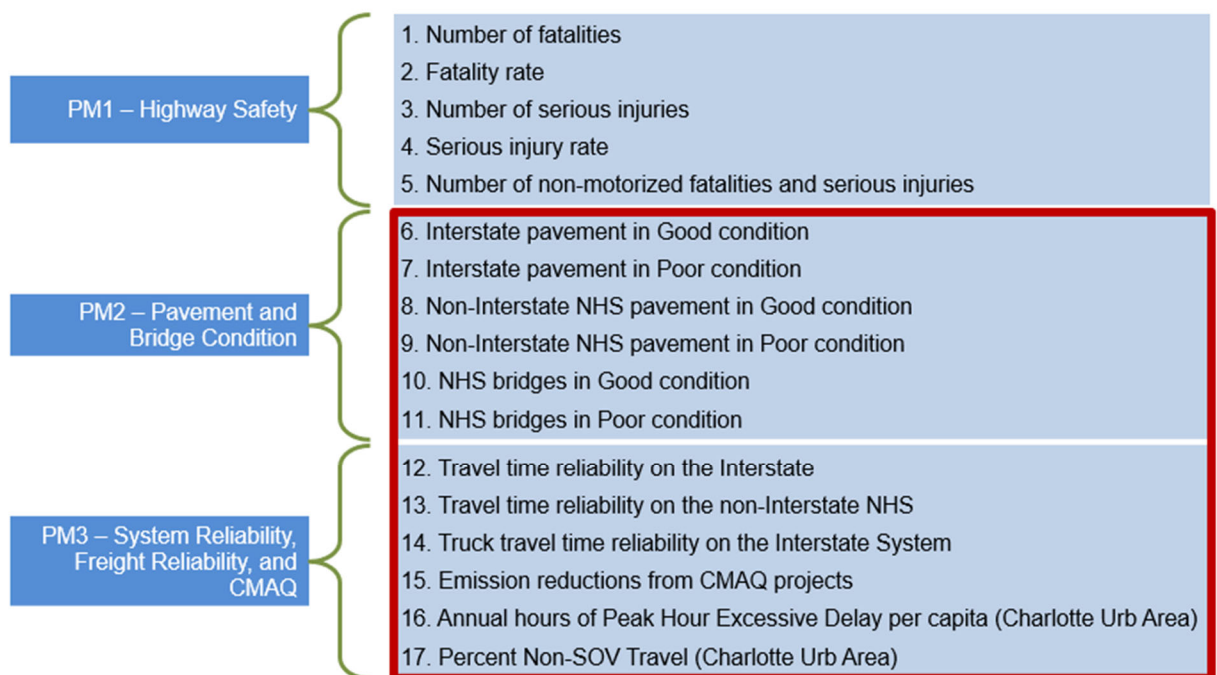
Effects of hybrid and remote work

Changes in carpooling and transit use

Economic conditions and fuel prices

Changes to the STIP due to cost increases

Performance Measures:



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NCDOT Draft Statewide Targets:

Pavement Condition:

Performance Measure	2023 Target	2025 Target
Percent of Interstate Pavement in Good Condition	60%	62%
Percent of Interstate Pavement in Poor Condition	1.8%	1.5%
Percent of Non-Interstate NHS Pavement in Good Condition	30%	31%
Percent of Non-Interstate NHS Pavement in Poor Condition	3.5%	3.0%

Bridge Condition:

Performance Measure	2023 Target	2025 Target
Percent of NHS Bridges by Deck Area in Good Condition	38%	36%
Percent of NHS Bridges by Deck Area in Poor Condition	5%	5%

Travel Time Reliability:

Performance Measure	2023 Target	2025 Target
Percent of Person-Miles Traveled on the Interstate that are Reliable	75%	75%
Percent of Person-Miles Traveled on the Non-Interstate NHS that are Reliable	70%	70%
Truck Travel Time Reliability Index	1.70	1.70

FBRMPO Options:

- Establish Unique Targets Only Applicable to FBRMPO Planning Area
- **Adoption of NCDOT Recommended Statewide Targets (TCC Recommendation)**

Action:

Consider approval of performance targets.

Resolution Supporting Targets for Performance Measures Established By NCDOT

WHEREAS, the French Broad River MPO has been designated by the Governor of the State of North Carolina as the Metropolitan Planning Organization (MPO) responsible, together with the State, for the comprehensive, continuing, and cooperative transportation planning process for the MPO's metropolitan planning area, and;

WHEREAS Federal regulations (23 CFR Part 490) require States to set targets for interstate and non-interstate National Highway System (NHS) pavement condition, NHS bridge condition, travel time reliability, freight reliability, and emissions reduction, and;

WHEREAS, the NCDOT has established targets for the performance measures noted above, and;

WHEREAS, the NCDOT coordinated the establishment of targets with the 19 MPOs in North Carolina through webinars and email communications during the spring and summer of 2022, and;

WHEREAS, the NCDOT has officially established targets and transmitted them to FHWA on December 16, 2022, and;

WHEREAS Federal regulations require MPOs to establish targets within 180 days of the State establishing and reporting its targets to FHWA by agreeing to plan and program projects that contribute toward the accomplishment of the State's targets for each measure, or establish its own target.

NOW THEREFORE, BE IT RESOLVED, that the MPO's Transportation Advisory Committee (TAC) agrees to plan and program projects that contribute toward the accomplishment of the State's targets for each of the listed performance measures below:

Performance Measure	2023 Target	2025 Target
Interstate Pavement Condition (Good)	60.0%	62.0%
Interstate Pavement Condition (Poor)	1.8%	1.5%
Non-Interstate NHS Pavement Condition (Good)	30.0%	31.0%
Non-Interstate NHS Pavement Condition (Poor)	3.5%	3.0%
NHS Bridge Condition (Good)	38.0%	36.0%
NHS Bridge Condition (Poor)	5.0%	5.0%
Interstate Level of Travel Time Reliability	75.0%	75.0%
Non-Interstate NHS Level of Travel Time Reliability	70.0%	70.0%
Interstate Truck Travel Time Reliability	1.70	1.70

Date: _____

By: _____

Anthony Sutton, FBRMPO Board Chair

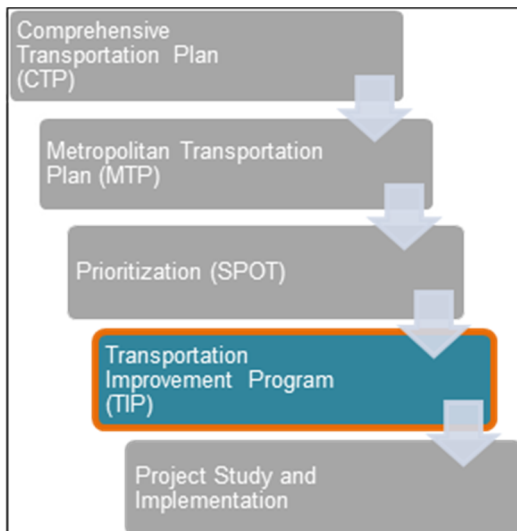
Date: _____

By: _____

Tristan Winkler, FBRMPO Director

Item 4D:

Amendments to the 2020-2029 Transportation Improvement Program (TIP)



What is the Transportation Improvement Program (TIP)?

The Transportation Improvement Program (TIP) is our region's document that reflects planned transportation investments over a ten-year period. The TIP describes each project, a schedule for implementation, funding sources, and estimated costs. Current items are for modification of existing projects. No new projects or amendments are included for March, 2023.

Modifications Summary

Modifications to the TIP largely include shifting the funding and/or schedule of several Locally Administered Projects.

This includes, but is not limited to, changes to the Ecusta Trail, Black Mountain Riverwalk Greenway, Woodfin Greenway, and Bent Creek Greenway projects. There are also three Locally Administered Project additions to the TIP: Riceville Road sidewalk improvements, phase II of the Ecusta Trail project, and the Montreat Texas Road pedestrian bridge project. Beyond Locally Administered Projects, the bridge replacement over 9th street in Black Mountain (HL-0013) is delaying construction from fy 23 to fy 24 to allow additional time for right-of-way acquisition. Finally, the Russ Ave upgrade project (U-5839) is also delaying construction from fy 23 to fy 24 to allow additional time for planning and design.

TCC Recommendation: Approve Proposed Amendments

Action: Consider approval of amendments to the 2020-2029 Transportation Improvement Program.

FRENCH BROAD RIVER

METROPOLITAN PLANNING ORGANIZATION

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FBRMPO 2020-2029 TIP Amendments

May 2023

TIP/STIP No.	Jurisdiction/Project Name/Limits	Category	Amendment Description	Funding Type	Current Phase	Funding Amt	FY
BL-0006	Various Pedestrian Improvements within City of Asheville (primarily within school zones)	Non-Highway (Bike & Ped)	TO REFLECT THE LATEST DELIVERY SCHEDULE,	BGDA	Engineering	\$60,000	2026
			DELAY PRELIMINARY ENGINEERING FROM FY 23 TO	Local Match	Engineering	\$15,000	2026
			FY 26 AND CONSTRUCTION FROM FY 25 TO FY 26.	BGDA	Construction	\$600,000	2026
				Local Match	Construction	\$150,000	2026
BL-0007	Ecusta Rail Trail - Construct Multi-Use Path (Kanuga Rd - US 64/Battle Creek)	Non-Highway (Bike & Ped)	COST INCREASE EXCEEDING \$2 MILLION AND 25% THRESHOLDS	BGDA	Engineering	\$290,000	2023
				Local Match	Engineering	\$73,000	2023
				BGANY	Construction	\$4,470,000	2023
				BGDA	Construction	\$2,318,000	2023
				Local Match	Construction	\$1,737,000	2023
BL-0076	Riceville Road, Improve Sidewalks (US 70 - N of VA Hospital Driveway)	Non-Highway (Bike & Ped)	ADD PROJECT AT THE REQUEST OF THE MPO.	Local Match	Construction	\$208,000	2023
				TADA	Construction	\$830,000	2023

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FBRMPO 2020-2029 TIP Amendments

May 2023

TIP/STIP No.	Jurisdiction/Project Name/Limits	Category	Amendment Description	Funding Type	Current Phase	Funding Amt	FY
BL-0078	Ecusta Trail (US 64 - Transylvania County Line)	Non-Highway (Bike & Ped)	ADD PROJECT AT THE REQUEST OF THE MPO.	BGDA	Construction	\$10,467,000	2027
				Local Match	Construction	\$2,616,000	2027
BL-0079	Texas Road Bridge Replacement	Non-Highway (Bike & Ped)	ADD PROJECT AT THE REQUEST OF THE MPO.	BGDA	Construction	\$153,000	2024
				Local Match	Construction	\$38,000	2024
EB-5547B	BLACK MOUNTAIN RIVERWALK GREENWAY (Black Mountain Ave - Into the Oak Trail)	Non-Highway (Bike & Ped)	TO ALLOW ADDITIONAL TIME FOR PLANNING AND DESIGN, DELAY RIGHT-OF-WAY FROM FY 22 TO FY 23 AND CONSTRUCTION FROM FY 23 TO FY 24.	BGANY	Right-of-Way	\$16,000	2023
				Local Match	Right-of-Way	\$4,000	2023
				BGANY	Construction	\$1,241,000	2024
				Local Match	Construction	\$310,000	2024
EB-5774A	Buncombe County WOODFIN GREENWAY - CONSTRUCT MULTI-USE PATH VIA NC 251 (The Mills at River Side - 2028 Riverside Dr - Silverline Park - 1054 Riverside Dr)	Non-Highway (Bike & Ped)	SEGMENT EB-5774 INTO SEGMENTS A AND B AT THE REQUEST OF THE DIVISION AND MPO.	CRPDA	Right-of-Way	\$1,911,000	2023
				Local Match	Right-of-Way	\$853,000	2023
				TADA	Right-of-Way	\$1,495,000	2023
				BGDA	Construction	\$4,808,000	2025
				Local Match	Construction	\$1,202,000	2025

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FBRMPO 2020-2029 TIP Amendments

May 2023

TIP/STIP No.	Jurisdiction/Project Name/Limits	Category	Amendment Description	Funding Type	Current Phase	Funding Amt	FY
EB-5774B	Buncombe County Construct multi-use path via Beaverdam Creek (The Mills at Riverside - 2028 Riverside Dr - NC 25 (Weaverville Hwy)/Woodfin Ave)	Non-Highway (Bike & Ped)	SEGMENT EB-5774 INTO SEGMENTS A AND B AT THE REQUEST OF THE DIVISION AND MPO.	BGDA	Right-of-Way	\$176,000	2025
				Local Match	Right-of-Way	\$122,000	2025
				TADA	Right-of-Way	\$310,000	2025
				BGANY	Construction	\$2,000,000	2026
				BGDA	Construction	\$760,000	2026
				Local Match	Construction	\$690,000	2026
EB-5821	Reems Creek Greenway - Construct multi-use path (Western edge of Weaverville - Karpen Soccer Fields)	Non-Highway (Bike & Ped)	TO REFLECT THE LATEST DELIVERY SCHEDULE, DELAY PRELIMINARY ENGINEERING FROM FY 23 TO FY 29 AT THE REQUEST OF THE MPO.	BGDA	Engineering	\$480,000	2029
				Local Match	Engineering	\$120,000	2029
EB-5823	Bent Creek Greenway (Hominy Creek River Park - Western NC Farmer's Market)	Non-Highway (Bike & Ped)	TO REFLECT THE LATEST DELIVERY SCHEDULE, DELAY PRELIMINARY ENGINEERING FROM FY 23 TO FY 29 AT THE REQUEST OF THE MPO	BGDA	Engineering	\$320,000	2029
				Local Match	Engineering	\$80,000	2029

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FBRMPO 2020-2029 TIP Amendments

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TIP/STIP No.	Jurisdiction/Project Name/Limits	Category	Amendment Description	Funding Type	Current Phase	Funding Amt	FY
EB-5831	Coxe Ave - Improve bicycle & pedestrian infrastructure (Patton Ave - Short Coxe Ave)	Non-Highway (Bike & Ped)	TO REFLECT THE LATEST DELIVERY SCHEDULE, DELAY PRELIMINARY ENGINEERING FROM FY 22 TO FY 23.	BGDA	Engineering	\$420,000	2023
				Local Match	Engineering	\$180,000	2023
				TADA	Engineering	\$300,000	2023
				BGDA	Right-of-Way	\$240,000	2024
				Local Match	Right-of-Way	\$60,000	2024
				BGANY	Construction	\$76,000	2025
				BGDA	Construction	\$1,247,000	2025
				Local Match	Construction	\$332,000	2025
				BGANY	Construction	\$3,893,000	2026
				Local Match	Construction	\$973,000	2026
				BGANY	Construction	\$3,037,000	2027
				Local Match	Construction	\$759,000	2027
				BGANY	Construction	\$546,000	2028
				Local Match	Construction	\$137,000	2028
EB-5945	Champion Drive - Construct multi-use path. (North Canton Rd - Thickety Rd)	Non-Highway (Bike & Ped)	TO REFLECT THE LATEST DELIVERY SCHEDULE, DELAY RIGHT-OF-WAY FROM FY 22 TO FY 23.	BGDA	Right-of-Way	\$307,000	2023
				Local Match	Right-of-Way	\$77,000	2023

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FBRMPO 2020-2029 TIP Amendments

May 2023

TIP/STIP No.	Jurisdiction/Project Name/Limits	Category	Amendment Description	Funding Type	Current Phase	Funding Amt	FY
EB-5946	Town of Mills River - Construct Multi-Use Path (NC 280, French Broad River - NC 191 (Haywood Rd))	Non-Highway (Bike & Ped)	TO REFLECT THE LATEST DELIVERY SCHEDULE, DELAY PRELIMINARY ENGINEERING FROM FY 23 TO FY 26.	Local Match TADA	Engineering Engineering	\$75,000 \$300,000	2026 2026
HL-0013	9th Street - Replace Bridge 100522	Highway & Intersection	TO ALLOW ADDITIONAL TIME FOR RIGHT-OF-WAY ACQUISITION, DELAY CONSTRUCTION FROM FY 23 TO FY 24.	BGANY Local Match BGANY BGDA Local Match	Right-of-Way Right-of-Way Construction Construction Construction	\$96,000 \$24,000 \$288,000 \$256,000 \$136,000	2023 2023 2024 2024 2024

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FBRMPO 2020-2029 TIP Amendments

May 2023

TIP/STIP No.	Jurisdiction/Project Name/Limits	Category	Amendment Description	Funding Type	Current Phase	Funding Amt	FY
U-5616	FRENCH BROAD RIVER METROPOLITAN PLANNING ORGANIZATION PLANNING (PL) SUPPLEMENT.		Increase fy 24 funding at the request of the MPO	BGDA	Planning	\$587,000	2020
				Local Match	Planning	\$147,000	2020
				BGDA	Planning	\$250,000	2021
				Local Match	Planning	\$63,000	2021
				BGDA	Planning	\$306,000	2022
				Local Match	Planning	\$76,000	2022
				BGDA	Planning	\$250,000	2023
				Local Match	Planning	\$63,000	2023
				BGDA	Planning	\$312,000	2024
				Local Match	Planning	\$78,000	2024
				BGDA	Planning	\$250,000	2025
				Local Match	Planning	\$63,000	2025
				BGDA	Planning	\$250,000	2026
				Local Match	Planning	\$63,000	2026
				BGDA	Planning	\$250,000	2027
				Local Match	Planning	\$63,000	2027
				BGDA	Planning	\$250,000	2028
				Local Match	Planning	\$63,000	2028
				BGDA	Planning	\$250,000	2029
				Local Match	Planning	\$63,000	2029

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FBRMPO 2020-2029 TIP Amendments

May 2023

TIP/STIP No.	Jurisdiction/Project Name/Limits	Category	Amendment Description	Funding Type	Current Phase	Funding Amt	FY
U-5839	US 276 (RUSS AVENUE) - Upgrade Corridor (US 23/74 - US 23 Business (Main St))	Highway & Intersection	TO ALLOW ADDITIONAL TIME FOR PLANNING AND DESIGN, DELAY CONSTRUCTION FROM FY 23 TO FY 24.	T	Build NC ROW	\$186,000	2023
				T	Engineering	\$222,000	2023
				T	Build NC ROW	\$186,000	2024
				T	Engineering	\$222,000	2024
				T	Construction	\$243,000	2024
				T	Build NC ROW	\$186,000	2025
				T	Engineering	\$222,000	2025
				T	Construction	\$9,848,000	2025
				T	Build NC ROW	\$186,000	2026
				T	Engineering	\$222,000	2026
				T	Construction	\$8,739,000	2026
				T	Build NC ROW	\$186,000	2027
				T	Engineering	\$222,000	2027
				T	Construction	\$5,770,000	2027
				T	Build NC ROW	\$186,000	2028
				T	Engineering	\$222,000	2028
				T	Build NC ROW	\$186,000	2029
				T	Engineering	\$222,000	2029
				T	Build NC ROW	\$930,000	Post
				T	Engineering	\$1,110,000	Post

FRENCH BROAD RIVER

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FBRMPO 2020-2029 TIP Amendments

May 2023

TIP/STIP No.	Jurisdiction/Project Name/Limits	Category	Amendment Description	Funding Type	Current Phase	Funding Amt	FY
W-5213G	SR 2002 (RICEVILLE ROAD), US 70 TO SR 2419 (BULL CREEK ROAD) NEAR HAW CREEK. (Us 70 - SR 2419 (Bull Creek Road))	Highway & Intersection	ADD PROJECT BREAK AT THE REQUEST OF THE TRANSPORTATION MOBILITY AND SAFETY DIVISION.	HSIP	Construction	\$1,225,000	2023

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**Federal*

****EB-5774A & EB-5774B – Previously committed \$2,000,000 for PE in 2020 has not changed**

a program of Land of Sky

FRENCH BROAD RIVER

METROPOLITAN PLANNING ORGANIZATION

RESOLUTION APPROVING AN AMENDMENT TO THE 2020-2029 TRANSPORTATION IMPROVEMENT PROGRAM (TIP)

WHEREAS, the French Broad River Metropolitan Planning Organization (MPO) provides transportation planning services for the jurisdictions and transit providers within the French Broad River MPO Planning Area; and

WHEREAS, the Board has found that the French Broad River MPO is conducting transportation planning in a continuous, cooperative, and comprehensive manner; and

WHEREAS, the French Broad River MPO Board adopted the 2020-2029 Transportation Improvement Program on October 24, 2019; and

WHEREAS, the FBRMPO Board (Transportation Advisory Committee) has reviewed the proposed amendments and modifications that are listed below and finds them satisfactory for addition to the TIP; and

WHEREAS, the French Broad River MPO has made these amendments available for public comment in accordance with the MPO's Public Involvement Policy;

NOW THEREFORE, BE IT RESOLVED that the Board of the French Broad River Metropolitan Planning Organization hereby adopts the following modifications to the 2020-2029 Transportation Improvement Program (see next page):

ADOPTED: This the 18th Day of May, 2023

Anthony Sutton, FBRMPO Board Vice-Chair

Attest, Tristan Winkler, Director
French Broad River MPO

Staff Report & Recommendations

Item 4E:

Congestion Management Process (CMP) Biennial Report

As a Transportation Management Area (TMA), the French Broad River MPO is required to maintain a Congestion Management Process (CMP) for the region which includes congestion monitoring on a biennial basis. A draft biennial report is included below. A presentation will be provided.

What is a CMP?

“A congestion management process (CMP) is a systematic and regionally-accepted approach for managing congestion that provides accurate, up-to-date information on transportation system performance and assesses alternative strategies for congestion management that meet State and local needs.”

When was the CMP last updated?

The full CMP was updated in 2018 and is available on the MPO website here:

https://frenchbroadrivermpo.org/wp-content/uploads/2019/08/DraftCMP_2018-1-1.pdf

The previous biennial report was completed in 2021 with data focusing on 2019.

TCC Recommendation: Accept the CMP Biennial Report

Action: Consider Accepting the CMP Biennial Report

Asheville Area Congestion Report

FRENCH BROAD RIVER METROPOLITAN PLANNING ORGANIZATION

French Broad River MPO
A PROGRAM AT LAND OF SKY REGIONAL COUNCIL | MAY 18, 2023

INTRODUCTION

The Asheville Metropolitan Area has continued to see population and employment growth throughout much of the region over the last several years, despite increasing housing costs, a pandemic, and numerous other challenges. The last several years have highlighted our region's economic resilience and continued desirability.

The region's continued growth has also brought about concerns about the impact on transportation infrastructure and its ability to continue to facilitate the movement of people and goods. Numerous transportation projects are currently underway to add capacity to interstates, arterials, and intersections in order to better accommodate increasing vehicular travel as well as projected increases in vehicular travel.

This report serves as a follow-up to the French Broad River MPO's Congestion Management Process, developed in 2018, as well as the Asheville Area Congestion Report, completed in 2020, in order to continue to monitor congestion and its impacts on the region's transportation network.

Major Takeaways

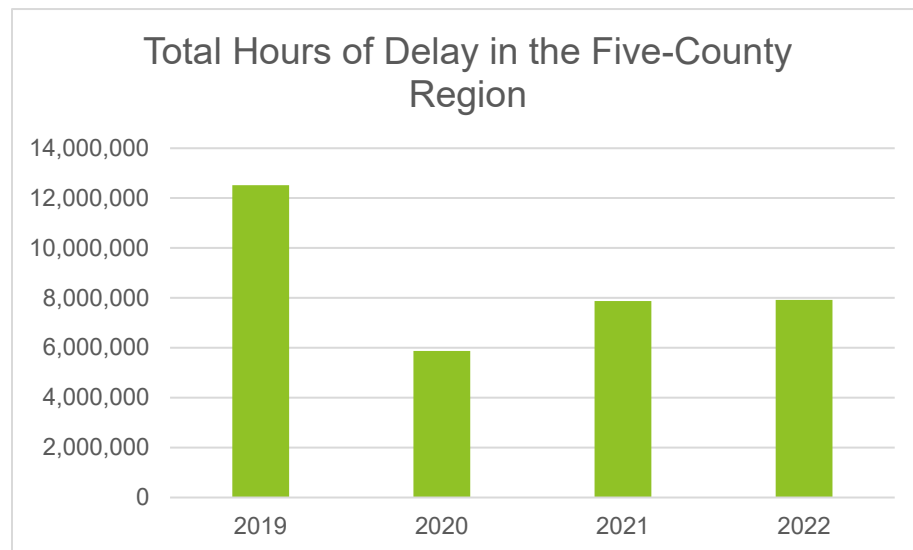
1. **Traffic delay has significantly decreased since the pandemic started and has not returned to pre-pandemic levels despite Vehicle Miles Traveled (VMT) returning to pre-pandemic levels.** The amount of vehicle delay in the five-county (Buncombe, Haywood, Henderson, Madison, and Transylvania counties) region in 2021 was roughly half what it was in 2019. The amount

of roadway mileage experiencing significant issues with reliability have decreased significantly since 2019.

2. **AM delay continues to be minimal in the region, PM delay continues to be more significant.** This was a major takeaway from the 2019 Asheville Area Congestion Report and continues to be the case. This likely reflects the patterns of retirees, tourists, and significant amounts of the workforce working a different schedule.
3. **Work from Home continues to increase throughout most of the region.** Prior to the pandemic the Asheville Metro Area ranked 6th in the country for percentage of workers working from home; the percentage continues to increase although the Asheville Area is no longer ranked 6th due to large increases in other metro areas.
4. **Commuting without a car appears to be stagnant or decreasing- depending on the mode- throughout the entire region.** Commute to Work data from US Census Bureau continues to reflect decreases or stagnation in the region's residents who bike, walk, carpool, or take public transportation to work.
5. **Cross-county commuting has increased significantly.** Each of the five counties has observed significant decreases in the number of residents working and living in the same county. Some economic centers have also seen significant shifts in where lower-income workers are coming from, likely reflecting displacement from the region's continuing housing shortage.

POST-PANDEMIC TRAFFIC DELAY & CAUSES

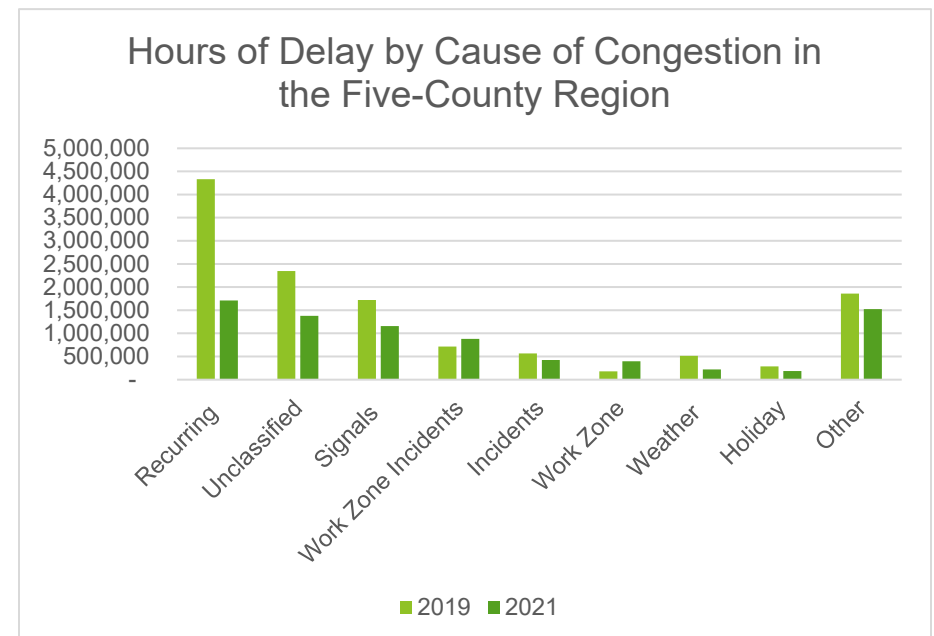
Observed amounts of traffic delay in the five-county region have decreased significantly since the beginning of the pandemic with only marginal gains towards pre-pandemic levels, despite VMT returning to pre-pandemic levels. In other words, vehicles are moving as much or more than they were in 2019, but there is less delay.



The significant reduction in delay is likely due to a redistribution of traffic to non-peak hours, as has been observed with spikes of work from home. Programs such as the region's Transportation Demand Management (TDM) should continue to work with employers to help instill the benefits of telecommuting but more analysis should be done on changes in to hourly travel patterns.

Causes of Delay

The causes of delay have also changed significantly since the last report was published in 2020. Most notably, recurring congestion, or congestion caused by an influx of vehicles ("traffic jams,") decreased by more than 60% between 2019 and 2021. Recurring congestion accounted for roughly 35% of congestion incidents in the region in 2019; it accounted for only 21% in 2021.



Some causes of congestion did observe an increase- these most notably include congestion incidents related to work zone activities or work zone incidents. This likely correlates with significant construction projects along I-26, including I-4700 and I-4400.

TOP BOTTLENECKS IN 2021

Data from HERE was provided on the top bottlenecks in the five-county region for 2021. This data is ranked based on total delay which is calculated by the total time a congestion event takes place multiplied by the estimated number of vehicles involved.

#1 WESTBOUND I-26 @ NC 191 (EXIT 33)

# of Events	543
Average Daily Duration	1h 6m
Total Hours of Delay	183,387,389
2019 Ranking	#1

#2 EASTBOUND I-26 @ NC 280 (EXIT 40)

# of Events	282
Average Daily Duration	1h 18m
Total Hours of Delay	146,288,146
2019 Ranking	#7

#3 EASTBOUND I-26 @ NC 146 (EXIT 37)

# of Events	186
Average Daily Duration	41m
Total Hours of Delay	123,138,521
2019 Ranking	#3

#4 WESTBOUND I-26 @ NC 146 (EXIT 37)

# of Events	457
Average Daily Duration	58m
Total Hours of Delay	120,286,571
2019 Ranking	#6

#5 WESTBOUND I-26 @ US 25 (EXIT 44)

# of Events	267
Average Daily Duration	22m
Total Hours of Delay	97,884,614
2019 Ranking	#16

#6 WESTBOUND I-26 @ NC 280 (EXIT 40)

# of Events	374
Average Daily Duration	33m
Total Hours of Delay	81,756,589
2019 Ranking	#22

#7 WESTBOUND US 64 @ DUNCAN HILL ROAD

# of Events	7
Average Daily Duration	5h 25m
Total Hours of Delay	57,511,192
2019 Ranking	-

#8 EASTBOUND I-26 @ US 25 (EXIT 44)

# of Events	375
Average Daily Duration	24m
Total Hours of Delay	54,813,062
2019 Ranking	#33

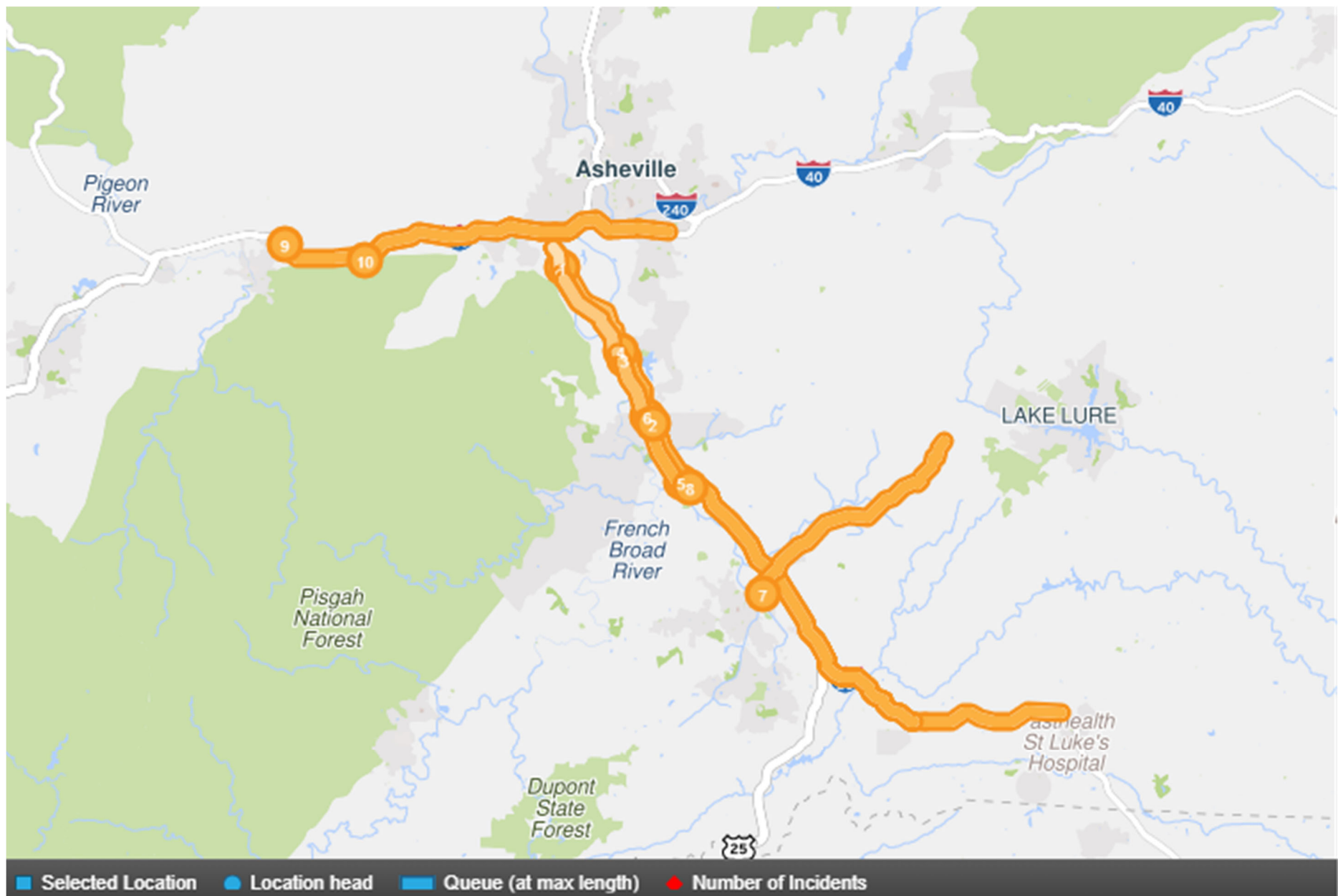
#9 WESTBOUND I-40 @ NEWFOUND RD (EXIT 33)

# of Events	111
Average Daily Duration	11m
Total Hours of Delay	36,706,869
2019 Ranking	#19

#10 WESTBOUND I-40 @ WIGGINS ROAD (EXIT 37)

# of Events	86
Average Daily Duration	12m
Total Hours of Delay	36,168,119
2019 Ranking	#20

It should be noted that many of the top bottlenecks in the region overlap with on-going construction projects. I-26 has construction from US 64 to I-40 as part of I-4700 and I-4400, likely adding to the delays observed along that corridor.



TOP 10 Bottlenecks in the Five-County Area in 2021 with associated queue lengths. Map provided by RITIS.

EVALUATING DELAY

For this report, the MPO primarily looks at two different metrics: Travel Time Index and Planning Time Index. These metrics are used throughout the country and in other parts of the world to determine travel-time reliability and better measure the impact of congestion on roadway users. These measures generally take on different aspects of how users experience congestion.

Per the Bureau of Transportation Statistics¹, **Travel Time Index (TTI)** is the ratio of the travel time during the peak period to the time required to make the same trip at free-flow speeds. A value of 1.5, for example, indicates a 10-minute free-flow trip requires 15 minutes during the peak period. Generally, this metric helps to identify areas with more recurring congestion, i.e. areas where daily congestion events are expected during the defined time period.

The **Planning Time Index (PTI)** is the ratio of travel time on the worst day of the month (the 95th percentile travel time) compared to the time required to make the same trip at free-flow speeds. A PTI of 1.5 indicates a 10-minute free-flow trip takes more than 15 minutes only one day per month². Generally, this metric helps to identify areas where non-recurring congestion may be occurring more frequently and/or may be more severe.

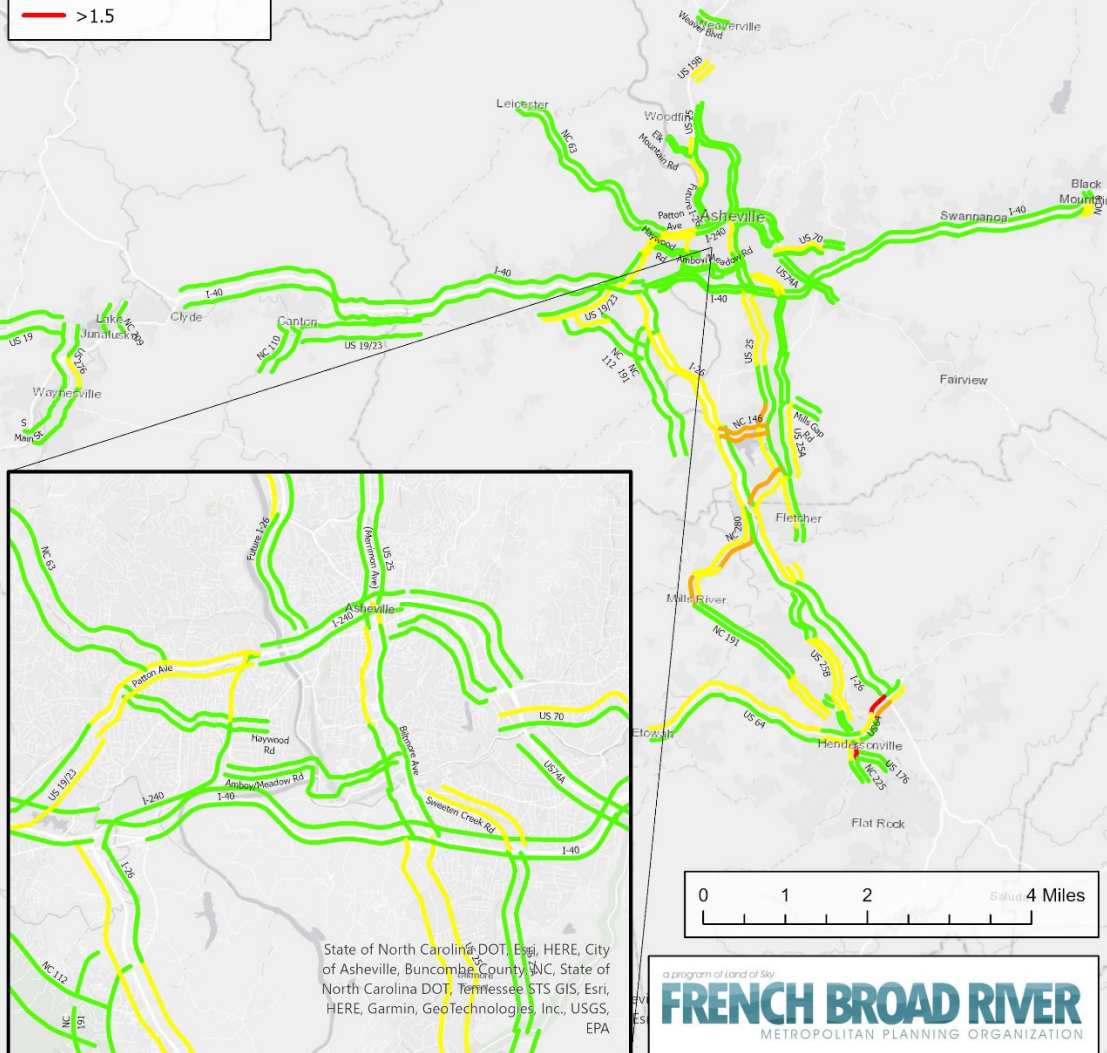
For this report, TTI and PTI were collected for roadway segments identified in the MPO's Congestion Management Process for AM (7-9AM) and PM (4-6PM) peaks. The below

maps illustrate the data by roadway segment in the region for each peak period identified.

FBRMPO Am Travel Time Index

Travel Time Index

- <1
- 1.01 - 1.25
- 1.26 - 1.5
- >1.5



AM Travel Time Index

0.5%

of studied roadway miles had a
Travel Time Index > 1.5 in 2021

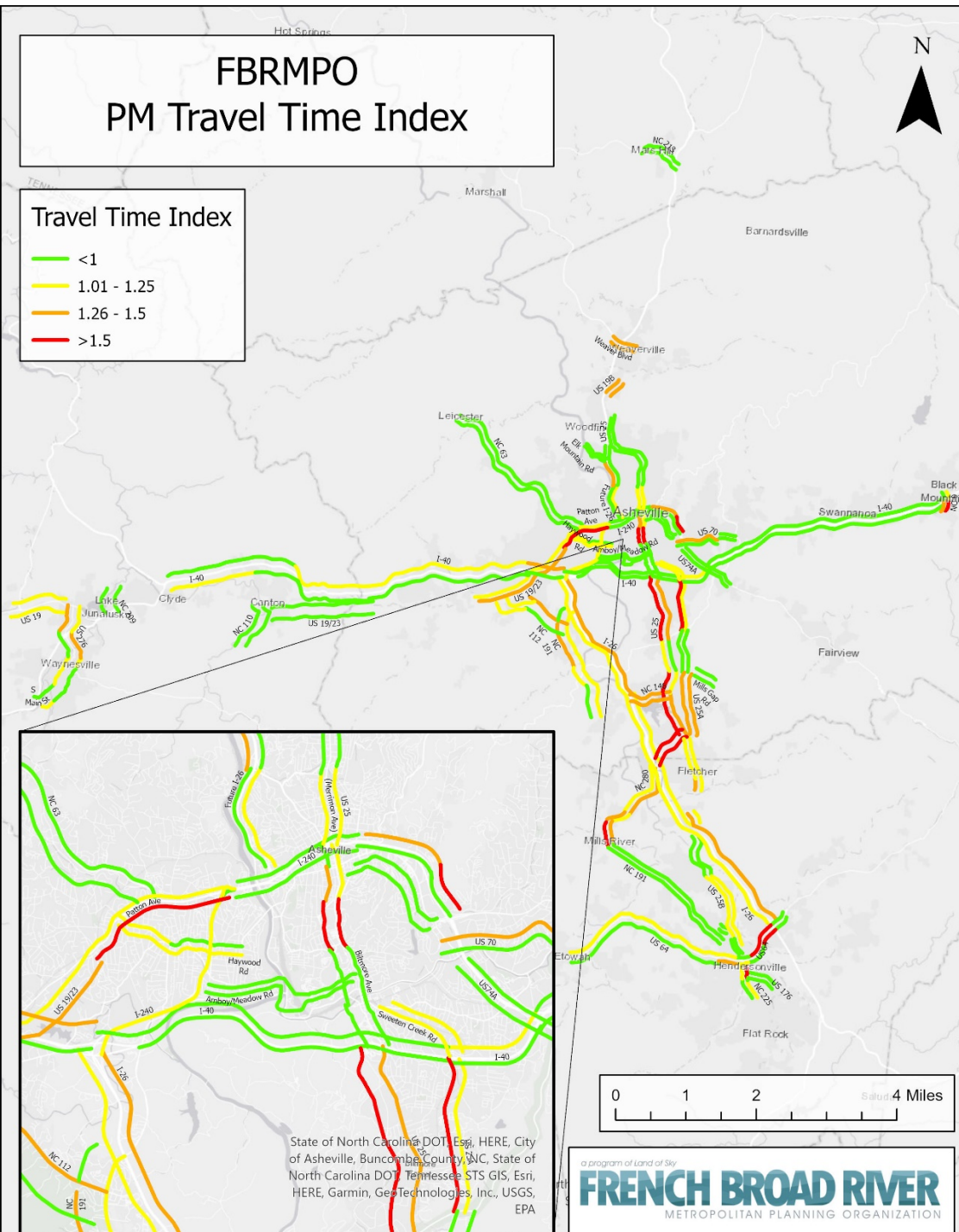
3.6%

of studied roadway miles had a Travel
Time Index > 1.5 in 2019

FBRMPO PM Travel Time Index

Travel Time Index

- <1
- 1.01 - 1.25
- 1.26 - 1.5
- >1.5



PM Travel Time Index

5.1%

of studied roadway miles had a
Travel Time Index > 1.5 in 2021

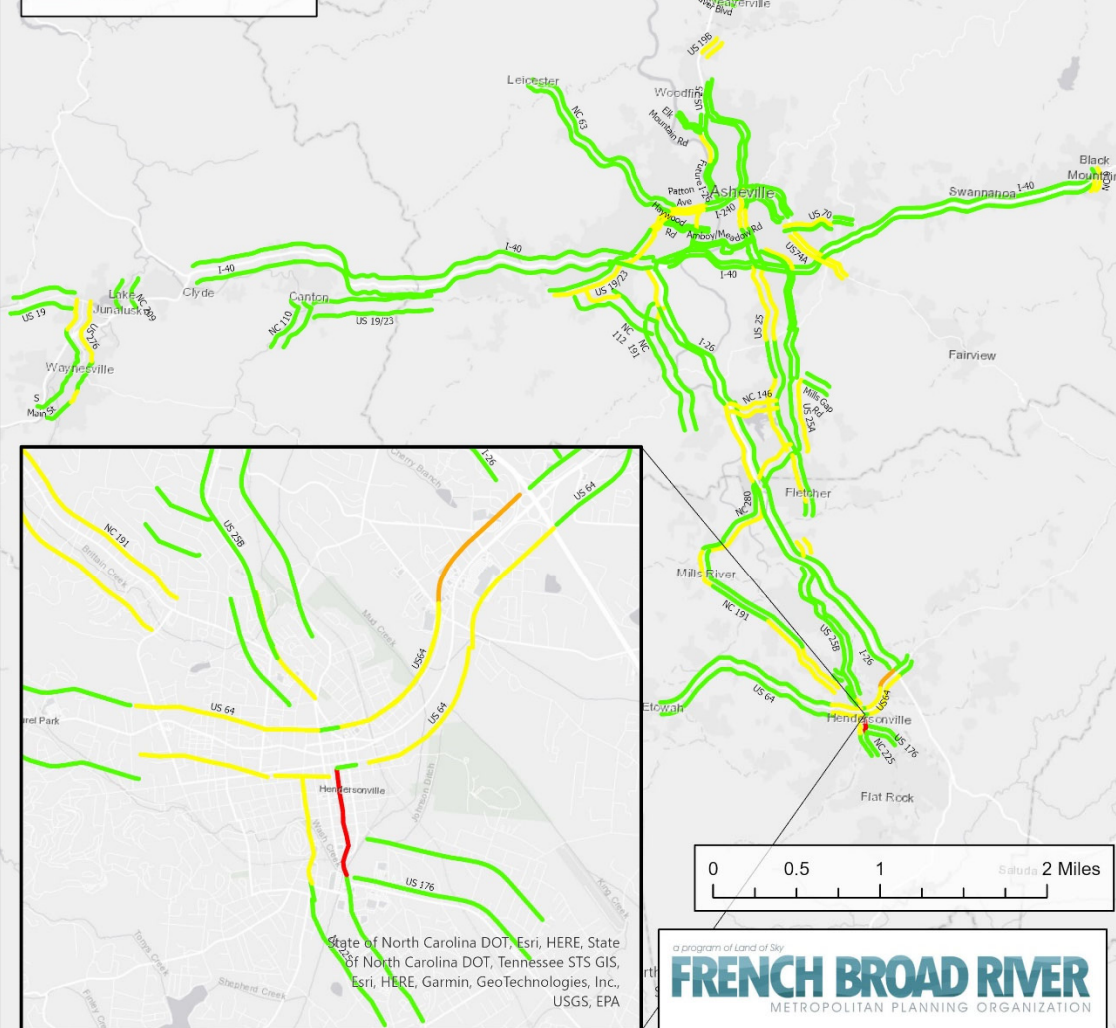
10.8%

of studied roadway miles had a Travel
Time Index > 1.5 in 2019

FBRMPO AM Planning Time Index

Planning Time Index

- <1.25
- 1.26 - 2.25
- 2.26 - 2.75
- >2.75



AM Planning Time Index

12%

of studied roadway miles had a
Planning Time Index > 1.5 in 2021

16%

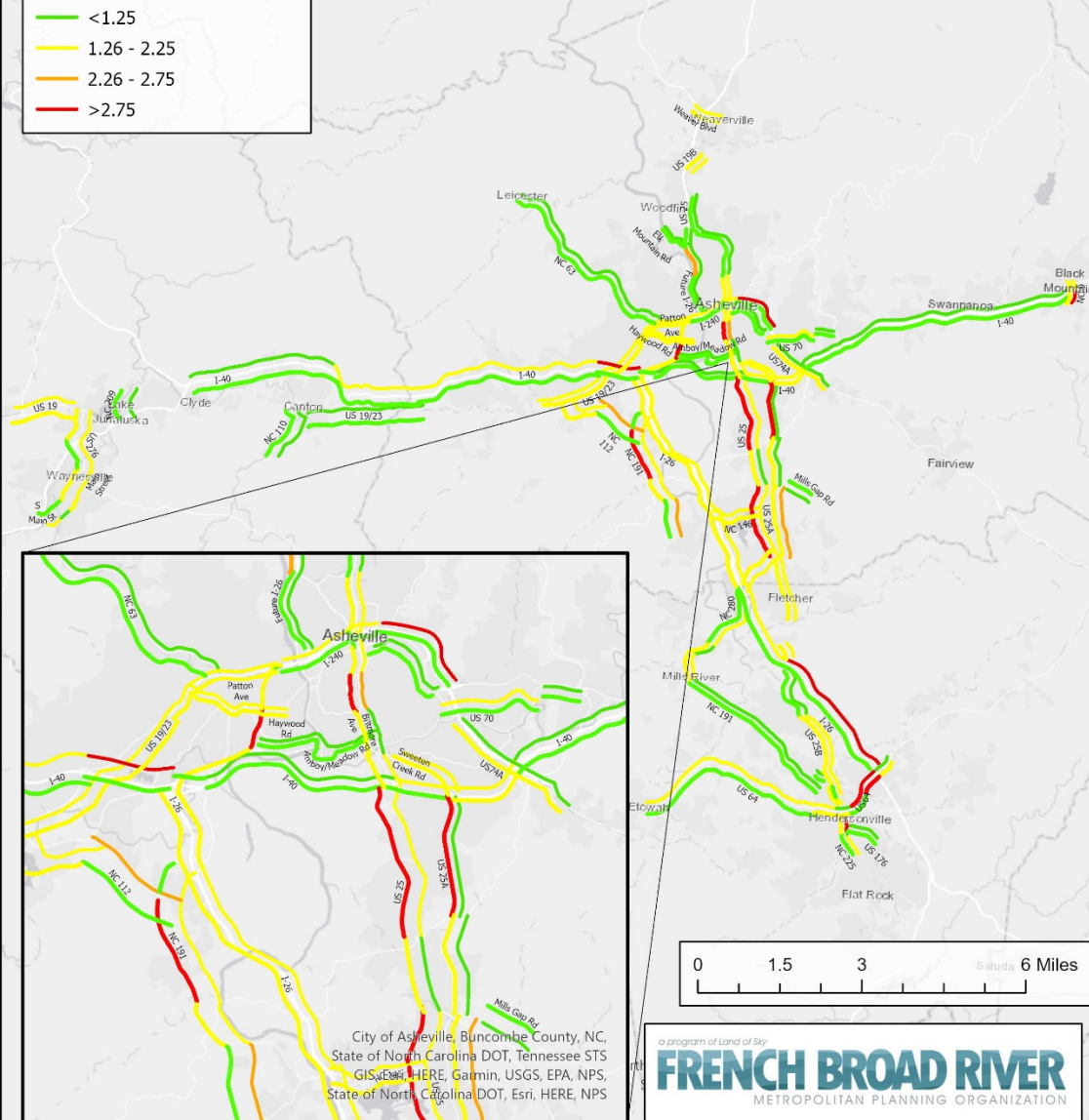
of studied roadway miles had a
Planning Time Index > 1.5 in 2019

FBRMPO PM Planning Time Index



Planning Time Index

- <1.25
- 1.26 - 2.25
- 2.26 - 2.75
- >2.75



PM Planning Time Index

27%

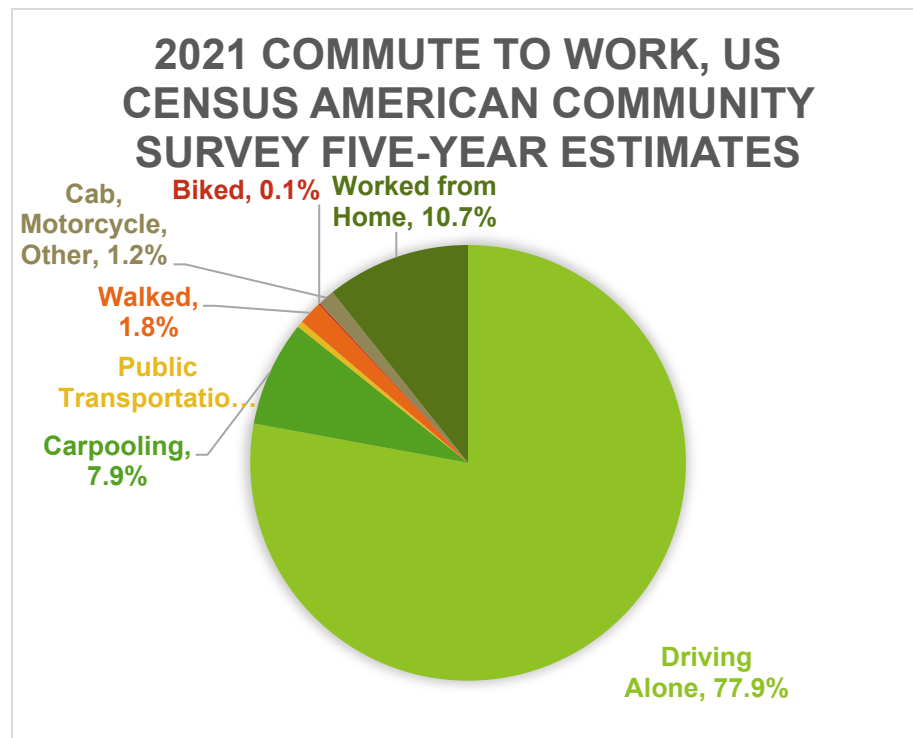
of studied roadway miles had a
Planning Time Index > 1.5 in 2021

51.4%

of studied roadway miles had a
Planning Time Index > 1.5 in 2019

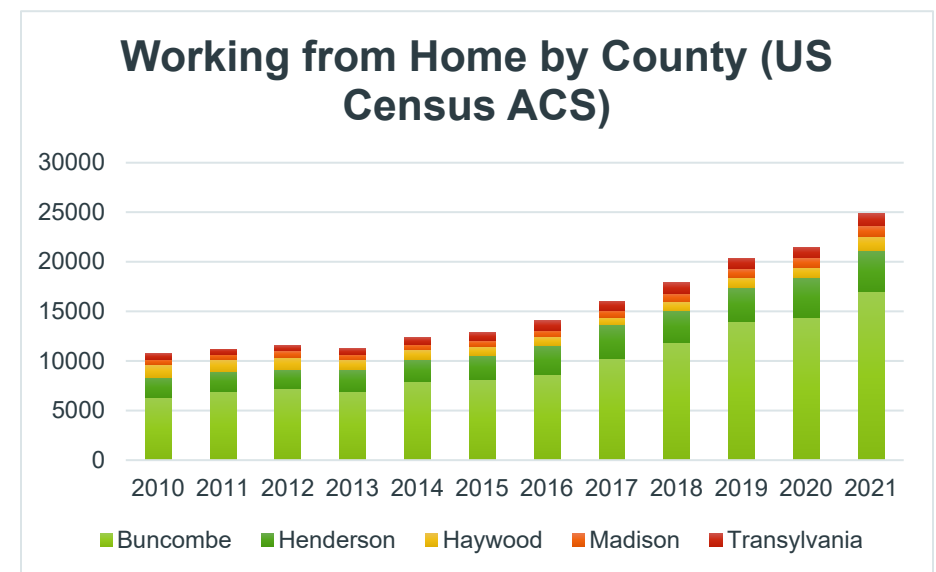
HOW PEOPLE COMMUTE & MOVE IN THE REGION

Data about how people commute is provided by the US Census Bureau's American Community Survey (ACS.) An important note is this is survey data that is collected from a portion of the population on an annual basis which focuses on residents' commute to work. With bicycle and pedestrian travel especially, this data shouldn't be used to surmise overall demand for bicycle and pedestrian travel as many of those trips are made for recreational purposes and there is limited data to reflect that information.



However, the overall picture about how the region's workers commute is dominated by people driving alone. In 2021, it's estimated that 77.9% of workers drove alone. In comparison to past years, driving alone is down significantly from the peak in 2015 at 80.8% from the same dataset. However, in terms of absolutes the number of workers driving alone is estimated to have increased by more than 22,000 from roughly 159,000 in 2010 to 181,000 in 2021.

While driving alone makes up the majority of workers commuting, other options take up a significant percentage of commuting in the region. Working from Home is the second largest "commute to work" in the region after steady increases over the last decade. To note, this data reflects five-year estimates so is almost certainly deflating the spike in working from home after 2020. Interestingly, every county in the region- with the exception of Haywood- observed a doubling of working from home between 2010 and 2021.

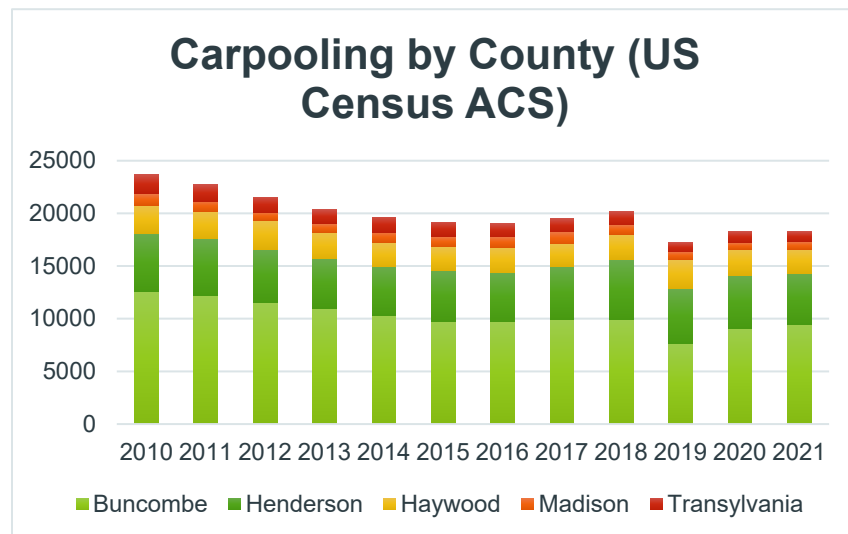


Carpooling, Transit, and Active Transportation

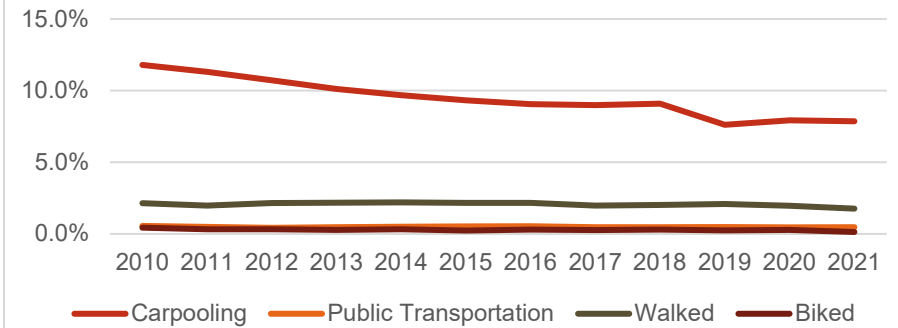
Less favorable data reflects the role of carpooling, biking, walking, and public transportation in regional commuting. These modes are important to providing accessibility, affordability, and sustainable access to jobs in the region while likely decreasing congestion.

Carpooling is- and has been- one of the most significant “modes” of commuting in the region. This may include family members or friends commuting together or carpools setup through employers or groups of employees. In 2021, 7.9% of the workers in the region reported carpooling as their primary means of getting to work- the third most significant “mode” in the region.

However, carpooling has been on a steady decline since 2010. In 2010, 11.8% or more than 23,000 residents reported



Commute to Work "Mode" in the Five-County Region, US Census American Community Survey Five-Year Estimates



carpooling as their primary means of commuting- that number decreased to a little more than 18,000 in 2021.

Active transportation modes- walking and biking- make up almost 2% of commuters in the region which is only slightly down from 2.5% in 2010. While the percentage of workers walking and biking has fluctuated some, it generally appears to be stagnant for each mode with some insignificant decreases.

Public transportation for commuting has remained remarkably flat at roughly 0.5%. There are some more localized trends that should be looked at more closely, including a decrease from 2% to 1% of Asheville workers utilizing public transportation for commuting and an increase from 0.1% to 1.1% of Hendersonville residents utilizing public transportation for commuting. Overall, while the increase in working from home has provided regional congestion benefits, the continued reliance on single-occupied vehicles may yield continued issues with congestion.

TRANSIT AND CONGESTION

The CMP also identifies increasing transit use as a recommendation to help address congestion along destination corridors. For this analysis, annual ridership for fixed-route transit routes overlapping the identified corridors was calculated based on route-by-route ridership counts provided by local transit agencies. To note: considerations were made to calculate stop-by-stop ridership numbers, but congestion impacting each route could impact users along the entire route, regardless of whether their stop is along the corridor or not. Also, not every destination corridor identified in the CMP is currently served by fixed-route transit. Those corridors have been noted in the table provided below.

Facility	From	To	City/Area	Transit Route(s)	Transit Riders (2019)	Transit Riders (2021)
Patton Avenue	Haywood Road	I-240	Asheville	WE1, WE2, W5	209,030	544,336
Swannanoa River Road	Biltmore Avenue	Tunnel Road	Asheville	WE1	237,729	306,578
Haywood Road	I-240	Patton Avenue	Asheville	W1, W2, W6	361,588	297,229
Tunnel/South Tunnel Road	Swannanoa River Road	Tunnel	Asheville	WE2, 170	297,308	226,427
Biltmore Avenue	College Street	Biltmore Village	Asheville	S1, S2, S5	263,917	175,173
Sweeten Creek Road	I-40	US 25	Asheville	S1, S5	96,270	146,006
Merrimon Avenue	I-240	Beaverdam Road	Asheville	N1, N2	198,829	123,850
Hendersonville Road	Lodge Street	Blue Ridge Parkway	Asheville	S3, S6	182,164	65,494
US 64	Blythe Street	King Street	Hendersonville	Rt. 1	31,077	25,765
Charlotte Street	Chestnut Street	College Street	Asheville	N5	34,723	18,877
Spartanburg Highway	Brooklyn Avenue	NC 225	Hendersonville	Rt. 2	23,836	16,846
NC 225	Highland Lake Road	US 176	Flat Rock	Rt. 2	23,836	16,846
US 25B	US 176	NC 191	Hendersonville	Rt. 3	23,836	13,753
North Main Street	US 276/Pigeon	Walnut	Waynesville	Mountaineer Route	3,080	3,783
South Main Street	Hyatt Creek	US 276	Waynesville	Mountaineer Route	3,080	3,783
NC 110	Main Street	Henson Cove Road	Canton	Black Bear Route	3,080	3,783
Weaver Boulevard	I-26	Main Street	Weaverville		No Fixed Route Service	
NC 191	US 25B	Blythe Street	Hendersonville		No Fixed Route Service	
Amboy/Meadow Road	I-240	Biltmore Avenue	Asheville		No Fixed Route Service	
Elk Mountain Road	I-26	Riverside Drive	Woodfin		No Fixed Route Service	
NC 213	Main Street	I-26	Mars Hill		No Fixed Route Service	

BICYCLE AND PEDESTRIAN

The 2018 CMP classifies “congested” roadways into different corridor types with Destination Corridors identified as major roadway corridors experiencing congestion that intersect areas that are relatively more conducive to bicycle and pedestrian travel. This identification is important for two different reasons: **1) IMPROVE SAFETY:** in areas where bicycle and pedestrian travel is more likely to occur, prioritizing speed and vehicular movements can lead to more safety concerns for people traveling by bike or walking; and **2) REDUCE CONGESTION:** enhancing bicycle and pedestrian accommodations along these corridors and inducing more trips by those modes may play a significant role in reducing congestion in those areas.

This section of the report helps to monitor Destination Corridors in terms of how these roads interact with bicycle and pedestrian modes. The corridors below are sorted based on a bicycle and pedestrian risk score developed by NCDOT as part of the Prioritization Process. The bicycle and pedestrian risk score is based on roadway accommodations as well as bicycle and pedestrian trip generators to develop an index based on projected use as well risk to each user. For this analysis, some CMP corridors are longer than the segments in the bicycle and pedestrian risk score so an average of overlapping segments has been applied. Also of note is the bicycle and pedestrian risk score has not been updated since the last report so it should be noted that significant changes have occurred on a couple of corridors in the region but are not reflected in the score in the table below.

Along with the bicycle and pedestrian risk score are recorded bicycle and pedestrian crashes within 50 feet of the identified corridor over a five-year period (2017-2021.)

Facility	From	To	Bike Crashes	Pedestrian Crashes	Total Crashes	KA Crashes	NCDOT Crash Risk Score
Patton Avenue	Haywood Road	I-240	5	8	13	3	31.1
Hendersonville Road	Lodge Street	Blue Ridge Parkway	2	6	8	1	46.6
NC 110	Main Street	Henson Grove Road	1	5	6	1	35.8
Amboy/Meadow	I-240	Biltmore Avenue	2	3	5	1	43.3
Merrimon Avenue	I-240	Beaverdam Road	3	12	15	0	50.1*
Biltmore Avenue	College Street	Biltmore Village	2	12	14	0	48.9
Tunnel/S Tunnel Road	Beaucatcher Tunnel	Swannanoa River Road	4	10	14	0	46.9
Haywood Road	I-240	Patton Avenue	6	4	10	0	38.9
US 25B	US 176	NC 191	0	7	7	0	31.3
Swannanoa River Road	Biltmore Avenue	Tunnel Road	0	6	6	0	43.3
Spartanburg Highway	Brooklyn Avenue	NC 225	3	2	5	0	44.5
US 64	Blythe Street	King Street	0	3	3	0	46.2
South Main Street	Hyatt Creek	Pigeon Avenue	1	2	3	0	44.5
Greenville Highway	Highland Lake Road	Spartanburg Highway	1	1	2	0	41.6
Charlotte Street	Chestnut Street	College Street	0	1	1	0	50.4*
Weaver Boulevard	I-26	Main Street	0	1	1	0	50.3
N Main Street	Pigeon Street	Walnut Street	0	1	1	0	46
Sweeten Creek Road	I-40	McDowell Street	0	0	0	0	39.9
NC 191	US 25B	Blythe Street	0	0	0	0	46.1
Elk Mountain Road	I-26	Riverside Drive	0	0	0	0	40.8
NC 213	Main Street	I-26	0	0	0	0	37.7

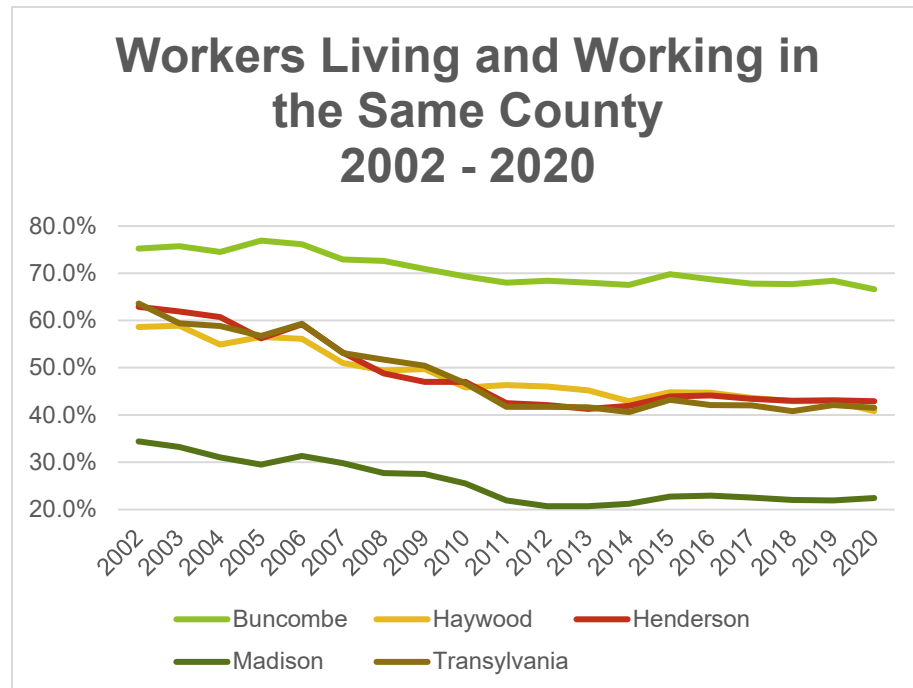
*Significant roadway changes have been made that are not reflected in the crash risk score.

Corridors in the table are ranked by KA (serious and fatal) bicycle and pedestrian crashes between 2017 and 2021.

COMMUTING PATTERNS

A significant part of the region's continuing shift in traffic and travel patterns includes some of the changes in commuting patterns being observed. While it is important to again note that commuting only accounts for one trip purpose and does not account all travel patterns, commuting plays a significant role in determining peak-hours of travel.

Data for this section on commuting was provided through the Longitudinal Employer Household Dynamics (LEHD) dataset provided through the US Census Bureau. It should be noted this data reflects general employer and employee locations, but does not necessarily mean each employee is commuting daily to that location.



Overall, the LEHD data illustrates an increase in cross-county commuting over the last 18 years. The number of Henderson County residents commuting to Buncombe County for jobs has increased 142 percent since 2002 and is the largest county-to-county connection in the region. Other sizeable increases have been observed for Haywood County, Madison County, and McDowell County residents with jobs in Buncombe County.

Worker Origin	Worker Destination	Number of Workers, 2020	Change Since 2002
Henderson	Buncombe	12,305	+ 7,231
Buncombe	Henderson	7,308	(165)
Haywood	Buncombe	5,903	+2,353
Buncombe	Mecklenburg	4,682	+1,744
Madison	Buncombe	3,393	+ 760
McDowell	Buncombe	3,046	+1,874

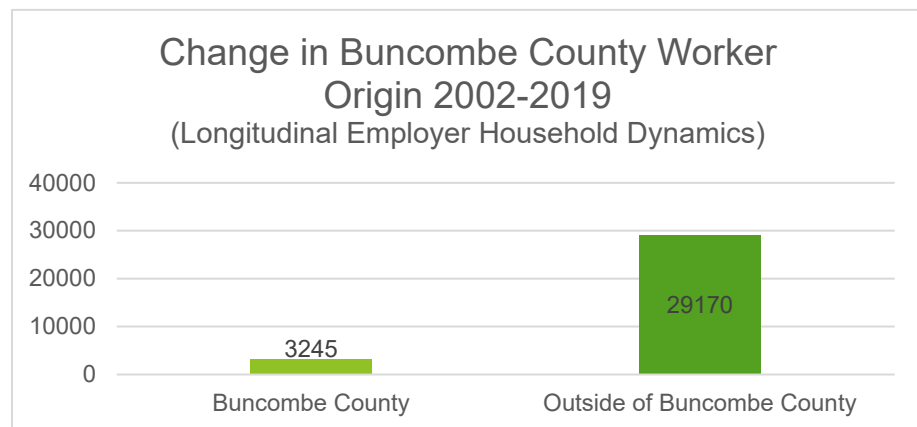
Six Largest County-to-County Connections for All Jobs

Of note is the increasing connection of Buncombe County residents with jobs in Mecklenburg County. Many of these residents are unlikely to be commuting between the two counties daily but may correlate with some of the increase in working from home in Buncombe County observed through ACS data. LEHD data also reflected increases in Buncombe County residents with jobs in Wake County which is likely a result of increased telecommuting but also caveats within the data that focuses on the employer's zip code which may include state government workers whose "employer" is in Wake County but they may never/seldom physically work there.

Other Impacts on Changing Commuting Patterns

The change in commuting patterns has significant impacts on both transportation as well as economic development, workforce, and housing considerations. The change in commuting patterns can be seen as an increasingly regional issue that reflects where workers are choosing to live and where employers may need to increasingly seek talent.

The region's largest county, Buncombe, saw a net increase of 32,415 jobs between 2002 and 2019, per LEHD data. Of those net gains, 29,170- or 90%- of the net job growth was filled by workers that reside outside of Buncombe County.

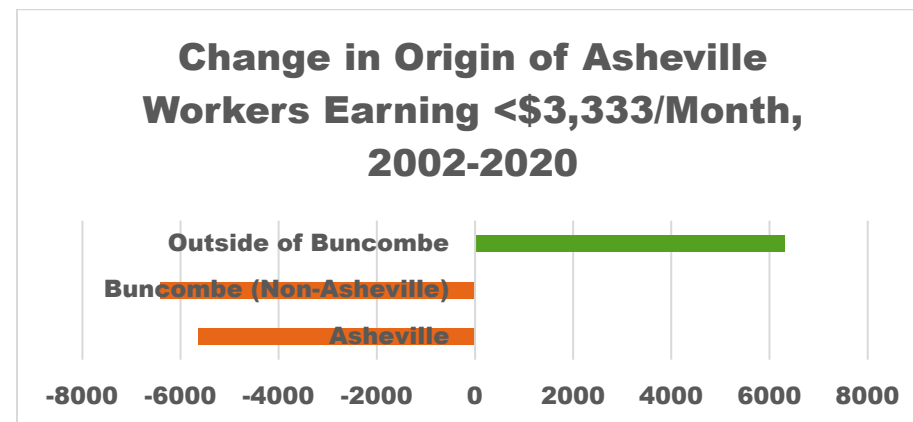


It should also be noted that this trend is not unique to Buncombe. Henderson County saw a net increase of 5,297 jobs in that same time period, of which 78% were filled with out-of-county residents. Haywood County saw a net increase of 2,001 jobs, of which 106% were filled by out-of-county residents. In other words, Haywood County increased the number of jobs but

the number of residents employed in Haywood County decreased. Across the region, cross-county transportation for jobs is of increasing importance.

EQUITY CONSIDERATIONS

Some of the LEHD data also enables a greater examination of worker/employment trends by earnings. The overall trend appears to show lower-income workers moving further from the regional employment centers of the region.

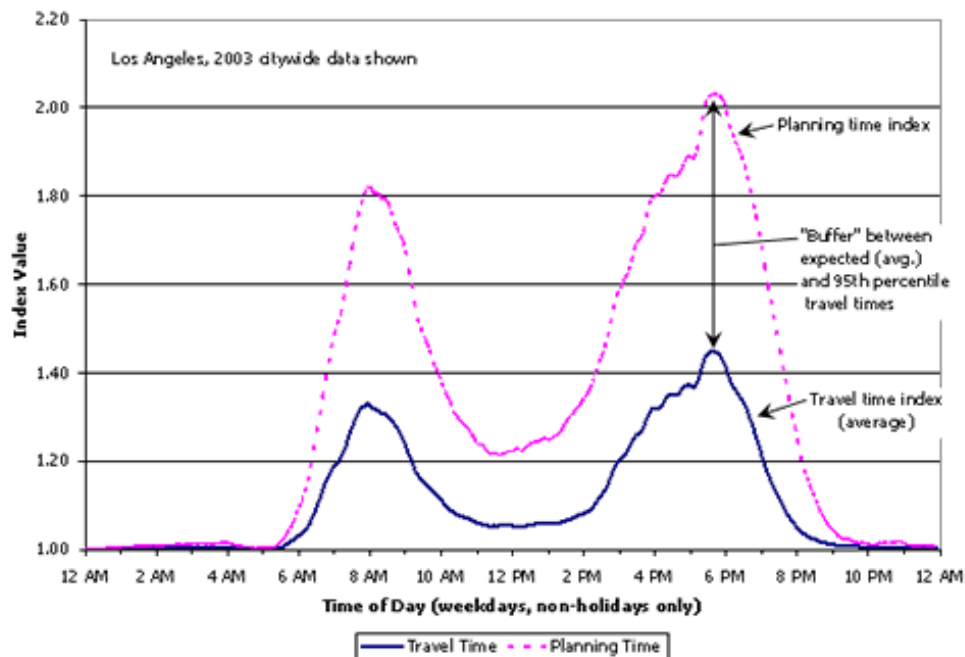


In the City of Asheville, the number of workers earning less than \$3,333/Month were increasingly coming from outside of Buncombe County and decreasingly from within the City limits or even within Buncombe County. This indicates a challenge for Buncombe County industries with lower wages but also indicates what are likely increasing transportation burdens on lower-income workers. The regional housing crisis is likely a major factor in this shift. Similar trends in other jurisdictions were observed but not to the same extent as what is being observed in Asheville.

APPENDIX A: TRAVEL TIME INDEX

Legend

Attribute	What It Means
Travel Time Index	A ratio of average travel-time over a select time period over free-flow travel-time
TTI Day	Travel Time Index Throughout the Day (6AM – 9PM)
TTI AM	Travel Time Index in the AM Rush (7AM-9AM)
TTI PM	Travel Time Index in the PM Rush (4PM-6PM)
Change	Change in Travel Time Index between 2019 and 2021



Freight Corridors

		2021			2019			Change		
CMP Code	Route	TTI Day	TTI AM	TTI PM	TTI Day	TTI AM	TTI PM	TTI Day	TTI AM	TTI PM
F2 WB	I-26 WB NC 280 to I-40	1.12	1.03	1.44	1.19	1.09	1.59	0.07	0.06	0.15
F2 EB	I-26 EB I-40 to NC 280	1.16	1.04	1.3	1.11	1.04	1.37	-0.05	0.00	0.07
F8 WB	I-40 WB I-26 to Exit 37	1.01	0.93	1.26	1.01	0.95	1.14	0.00	0.02	-0.12
F1 WB	I-26 WB US 25 to NC 280	1.1	1.07	1.18	1.04	1	1.09	-0.06	-0.07	-0.09
F7 WB	I-240 WB 74A to Future 26	0.96	0.9	1.17	1.03	0.93	1.42	0.07	0.03	0.25
F5 EB	I-240 EB I-40 to Future 26	0.97	0.96	1.08	1.04	1.09	1.23	0.07	0.13	0.15
F6 SB	Future 26 SB from Weaver Blvd to I-240	0.98	1.03	1.05	1.04	1.18	1.11	0.06	0.15	0.06
F9 WB	I-40 WB Exit 37 to US 23/74	0.98	0.94	1.04	0.99	0.96	1.03	0.01	0.02	-0.01
F1 EB	I-26 EB NC 280 to US 25	1.02	0.97	1.03	1	0.98	1.02	-0.02	0.01	-0.01
F3 WB	I-40 WB US 74A to I-26	0.96	0.92	0.98	0.97	0.95	1.06	0.01	0.03	0.08
F9 EB	I-40 EB US 23/74 to Exit 37	0.96	0.91	0.97	0.94	0.94	0.94	-0.02	0.03	-0.03
F4 WB	I-40 WB NC 9 to US 74A	0.97	0.93	0.96	0.99	0.96	1.06	0.02	0.03	0.10
F6 NB	Future 26 NB from I-240 to Weaver Blvd	0.93	0.9	0.96	0.97	0.96	1.02	0.04	0.06	0.06
F4 EB	I-40 EB US 74A to NC 9	0.98	0.95	0.96	0.98	0.97	0.98	0.00	0.02	0.02
F5 WB	I-240 WB Future 26 to I-40	0.91	0.88	0.95	1.03	1.02	1.14	0.12	0.14	0.19
F7 EB	I-240 EB Future 26 to 74A	0.93	0.9	0.94	0.97	0.98	1.03	0.04	0.08	0.09
F3 EB	I-40 EB I-26 to US 74A	0.96	0.93	0.93	0.96	0.96	0.95	0.00	0.03	0.02
F8 EB	I-40 EB Exit 37 to I-26	0.93	0.91	0.92	0.95	0.95	0.98	0.02	0.04	0.06

Mobility Corridors

		2021			2019			Change		
CMP Code	Route	TTI Day	TTI AM	TTI PM	TTI Day	TTI AM	TTI PM	TTI Day	TTI AM	TTI PM
M12 NB	NC 9 NB Blue Ridge to US 70	1.17	1.07	1.5	1.39	1.19	1.54	0.22	0.12	0.04
M17 EB	US 64 EB King to Howard Gap	1.07	1.03	1.42	1.22	1.05	1.35	0.15	0.02	-0.07
M2 SB	US 25A SB I-40 to NC 280	0.98	0.97	1.37	1.6	1.2	2.28	0.62	0.23	0.91
M5 SB	US 25B SB Reems Creek to New Stock	1.14	1.15	1.36	1.6	1.47	1.75	0.46	0.32	0.39
M5 NB	US 25B NB New Stock to Reems Creek	1.11	1.1	1.33	1.55	1.47	1.69	0.44	0.37	0.36
M17 WB	US 64 WB Howard Gap to King	1.08	1.06	1.32	1.23	1.03	1.29	0.15	-0.03	-0.03
M14 NB	NC 112 NB NC 191 to US 1923	1	1.05	1.3	1.14	1.11	1.43	0.14	0.06	0.13
M9 SB	NC 280 SB US 25 to Butler Bridge	1.06	1.05	1.29	1.23	1.14	1.39	0.17	0.09	0.1
M12 SB	NC 9 SB US 70 to Blue Ridge	1.06	1.01	1.27	1.29	1.15	1.36	0.23	0.14	0.09

		2021			2019			Change		
CMP Code	Route	TTI Day	TTI AM	TTI PM	TTI Day	TTI AM	TTI PM	TTI Day	TTI AM	TTI PM
M20 NB	US 276 NB Main to US 19	1.05	1.01	1.27	1.07	0.98	1.13	0.02	-0.03	-0.14
M15 SB	NC 280 SB Butler Bridge to 191	1.01	1.03	1.26	1.12	1.1	1.22	0.11	0.07	-0.04
M9 NB	NC 280 NB Butler Bridge to US 25	1.05	1.04	1.23	1.16	1.09	1.22	0.11	0.05	-0.01
M8 SB	US 25 SB BRP to Cane Creek	0.95	0.96	1.18	1.09	1.02	1.24	0.14	0.06	0.06
M1 SB	US 19/23 WB Haywood to NC 151	0.95	0.93	1.17	1.43	1.31	1.55	0.48	0.38	0.38
M2 NB	US 25A NB NC 280 to I-40	0.92	0.96	1.16	1.41	1.29	1.79	0.49	0.33	0.63
M13 NB	NC 191 NB NC 280 to I-26	0.95	0.95	1.16	1.1	1.03	1.31	0.15	0.08	0.15
M8 NB	US 25 NB Cane Creek to BRP	0.95	0.93	1.15	1.11	1.06	1.19	0.16	0.13	0.04
M21 WB	US 19 WB Russ to Jonathan Creek	1	0.95	1.15	0.91	0.91	0.91	-0.09	-0.04	-0.24
M11 EB	NC 146 EB I-26 to US 25	0.98	1.03	1.14	1.08	1.09	1.16	0.1	0.06	0.02
M13 SB	NC 191 SB I-26 to NC 280	0.94	0.93	1.12	1.14	1.05	1.44	0.2	0.12	0.32
M1 NB	US 19/23 EB NC 151 to Haywood	0.95	1	1.08	1.43	1.61	1.51	0.48	0.61	0.43
M11 WB	NC 146 WB US 25 to I-26	0.94	1.01	1.07	1.07	1.1	1.16	0.13	0.09	0.09
M6 NB	US 25 NB Beaverdam to New Stock	0.94	0.92	1.07	1.05	1	1.11	0.11	0.08	0.04
M18 WB	US 64 WB Blythe to Brickyard	1	1	1.07	1	0.99	1.01	0	-0.01	-0.06
M18 EB	US 64 EB Brickyard to Blythe	1	1.01	1.07	0.99	0.98	1	-0.01	-0.03	-0.07
M20 SB	US 276 SB US 19 to Main	0.95	0.91	1.06	1.02	0.94	1.06	0.07	0.03	0
M21 EB	US 19 EB Jonathan Creek to Russ	0.97	0.97	1.06	0.91	0.89	0.91	-0.06	-0.08	-0.15
M14 SB	NC 112 SB US 1923 to NC 191	0.96	1	1.05	1.08	1.09	1.17	0.12	0.09	0.12
M15 NB	NC 280 NB 191 to Butler Bridge	0.95	0.97	1.04	1.08	1.08	1.16	0.13	0.11	0.12
M7 WB	US 70 WB BRP to I-240	0.89	0.88	1.04	1.06	0.98	1.14	0.17	0.1	0.1
M3 SB	US 74A SB I-40 to Old Fort	0.94	0.95	1	1.06	1.11	1.09	0.12	0.16	0.09
M6 SB	US 25 SB New Stock to Beaverdam	0.92	0.92	0.98	0.99	0.96	1.02	0.07	0.04	0.04
M7 EB	US 70 EB I-240 to BRP	0.86	0.84	0.98	0.93	0.9	0.97	0.07	0.06	-0.01
M19 NB	US 25B NB 191 to Butler Bridge	0.91	0.94	0.97	0.99	1.03	0.99	0.08	0.09	0.02
M3 NB	US 74A NB Old Fort to I-40	0.93	0.98	0.97	1	1.11	0.98	0.07	0.13	0.01
M19 SB	US 25B SB Butler Bridge to 191	0.91	0.93	0.97	0.95	0.95	0.97	0.04	0.02	0
M4 SB	NC 63 SB Newfound to US 19/23	0.9	0.94	0.96	1.23	1.23	1.16	0.33	0.29	0.2
M4 NB	NC 63 NB US 19/23 to Newfound	0.88	0.89	0.96	1.06	1.03	1.06	0.18	0.14	0.1
M16 SB	NC 191 SB 280 to Blythe	0.89	0.95	0.94	1.12	1.1	1.22	0.23	0.15	0.28
M22 SB	NC 209 SB I-40 to US 23/74	0.89	0.88	0.94	0.96	0.93	0.97	0.07	0.05	0.03
M22 NB	NC 209 NB US 23/74 to I-40	0.89	0.88	0.93	1.16	1.1	1.19	0.27	0.22	0.26

M16 NB	NC 191 NB Blythe to 280	0.88	0.92	0.91	1.08	1.08	1.16	0.2	0.16	0.25
M23 NB	US 19 NB Main to Wiggins	0.85	0.83	0.89	0.9	0.89	0.9	0.05	0.06	0.01
		2021			2019			Change		
CMP Code	Route	TTI Day	TTI AM	TTI PM	TTI Day	TTI AM	TTI PM	TTI Day	TTI AM	TTI PM
M23 SB	US 19 SB Wiggins to Main	0.86	0.86	0.88	0.93	0.92	0.94	0.07	0.06	0.06
M10 EB	Mills Gap US 25 to Concord Road							0	0	0
M10 WB	Mills Gap US 25 to Concord Road							0	0	0

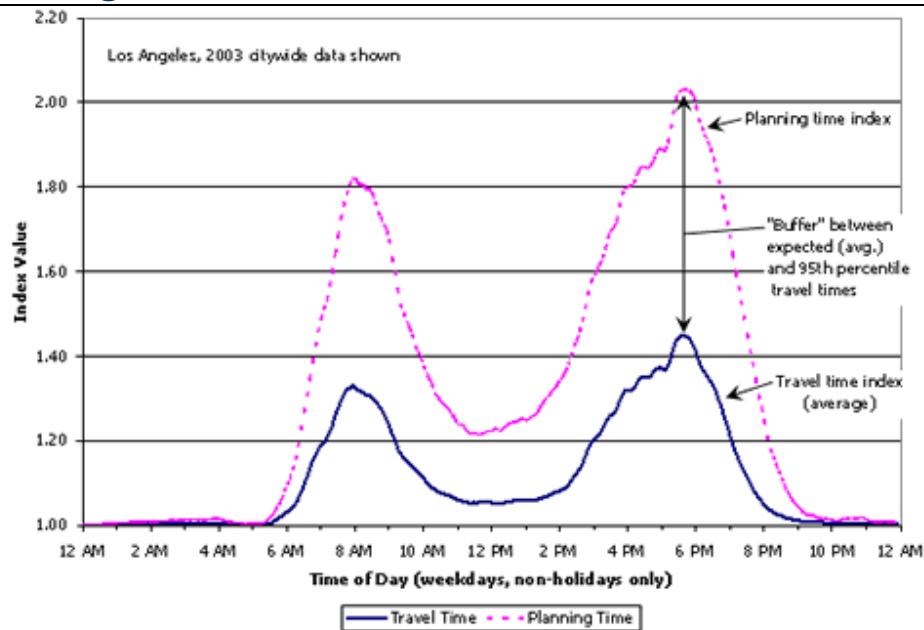
Destination Corridors

		2021			2019			Change		
CMP Code	Route	PTI Day	PTI AM	PTI PM	TTI Day	TTI AM	TTI PM	TTI Day	TTI AM	TTI PM
D1 SB	US 25 SB Lodge to BRP	1.04	1.05	1.45	1	0.97	1.22	-0.04	-0.08	-0.23
D11 SB	Patton SB I-240 to Haywood	1.04	1.04	1.4	1.27	1.09	1.67	0.23	0.05	0.27
D10 NB	US 25A NB I-40 to US 25	1.03	1.01	1.36	1.3	1.07	1.46	0.27	0.06	0.1
D7 EB	Weaver EB from I-26 to Main	1.11	0.99	1.34	1.4	1.26	1.48	0.29	0.27	0.14
D7 WB	Weaver WB from Main to I-26	1.09	0.99	1.32	1.33	1.13	1.45	0.24	0.14	0.13
D1 NB	US 25 NB BRP to Lodge	1.03	1.01	1.32	1.01	0.94	1.11	-0.02	-0.07	-0.21
D11 NB	Patton NB Haywood to I-240	0.98	1.07	1.23	1.25	1.25	1.37	0.27	0.18	0.14
D3 SB	Haywood SB Patton to I-240	0.89	0.81	1.21	1.19	1.01	1.37	0.3	0.2	0.16
D8 WB	Tunnel from NC 81 to Tunnel	0.91	0.8	1.18	1.07	0.95	1.15	0.16	0.15	-0.03
D8 EB	Tunnel from Tunnel to NC 81	0.88	0.76	1.09	1	0.91	1.06	0.12	0.15	-0.03
D13 EB	US 64 EB Blythe to King	0.98	1.01	1.08	1.15	1.07	1.18	0.17	0.06	0.1
D19 NB	N Main NB Pigeon to Walnut	0.91	0.81	1.07	1.26	1.07	1.3	0.35	0.26	0.23
D6 NB	US 25 NB I-240 to Beaverdam	0.87	0.83	1.06	1.06	0.95	1.16	0.19	0.12	0.1
D14 NB	US 225 NB Highland Lake to US 176	1	0.96	1.06	1.04	0.98	1.07	0.04	0.02	0.01
D6 SB	US 25 SB Beaverdam to I-240	0.85	0.81	1.04	1.04	0.89	1.19	0.19	0.08	0.15
D3 NB	Haywood NB I-240 to Patton	0.83	0.79	1.01	1.09	0.95	1.22	0.26	0.16	0.21
D15 WB	US 176 WB Brooklyn to 225	0.9	0.9	1.01	1.07	1.07	1.16	0.17	0.17	0.15
D5 SB	NC 81 SB US 70 to Biltmore	0.89	0.86	1.01	1	0.91	1.06	0.11	0.05	0.05
D19 SB	N Main SB Walnut to Pigeon	0.84	0.75	1	1.15	0.96	1.2	0.31	0.21	0.2
D13 WB	US 64 WB King to Blythe	0.87	0.96	1	1.03	1.03	1.06	0.16	0.07	0.06
D10 SB	US 25A SB US 25 to I-40	0.9	0.91	1	0.98	0.9	1.04	0.08	-0.01	0.04
D14 SB	US 225 SB US 176 to Highland Lake	0.91	0.9	0.96	0.99	0.97	1.01	0.08	0.07	0.05
D15 EB	US 176 EB 225 to Brooklyn	0.85	0.84	0.95	1	0.98	1.05	0.15	0.14	0.1

APPENDIX B: PLANNING TIME INDEX

Legend

Attribute	What It Means
Planning Time Index	A ratio of 95 th percentile travel-time over a select time period over free-flow travel-time
PTI Day	Planning Time Index Throughout the Day (6AM – 9PM)
PTI AM	Planning Time Index in the AM Rush (7AM-9AM)
PTI PM	Planning Time Index in the PM Rush (4PM-6PM)
Change	Change in Planning Time Index between 2019 and 2021



Freight Corridors

		2021			2019			Change		
CMP Code	Route	PTI Day	PTI AM	PTI PM	PTI Day	PTI AM	PTI PM	PTI Day	PTI AM	PTI PM
F2 WB	I-26 WB NC 280 to I-40	1.77	1.12	2.52	2.02	1.42	3.11	0.25	0.30	0.59
F2 EB	I-26 EB I-40 to NC 280	1.73	1.16	2.14	1.72	1.21	2.36	-0.01	0.05	0.22
F8 WB	I-40 WB I-26 to Exit 37	1.14	1	1.98	1.25	1.07	1.84	0.11	0.07	-0.14
F1 WB	I-26 WB US 25 to NC 280	1.39	1.09	1.9	1.23	1.09	1.65	-0.16	0.00	-0.25
F7 WB	I-240 WB 74A to Future 26	1.09	0.98	1.88	1.46	1.02	2.58	0.37	0.04	0.70
F5 EB	I-240 EB I-40 to Future 26	1.09	1.1	1.63	1.33	1.67	2.21	0.24	0.57	0.58
F6 SB	Future 26 SB from Weaver Blvd to I-240	1.1	1.24	1.43	1.33	1.98	1.71	0.23	0.74	0.28
F9 WB	I-40 WB Exit 37 to US 23/74	1.08	1.01	1.42	1.07	1.05	1.14	-0.01	0.04	-0.28
F3 WB	I-40 WB US 74A to I-26	1.05	1	1.24	1.07	1.03	1.34	0.02	0.03	0.10
F5 WB	I-240 WB Future 26 to I-40	1.01	0.96	1.13	1.14	1.1	1.58	0.13	0.14	0.45
F6 NB	Future 26 NB from I-240 to Weaver Blvd	1.02	0.99	1.12	1.07	1.04	1.37	0.05	0.05	0.25
F1 EB	I-26 EB NC 280 to US 25	1.13	1.06	1.11	1.1	1.08	1.13	-0.03	0.02	0.02
F7 EB	I-240 EB Future 26 to 74A	1.03	1	1.06	1.15	1.23	1.52	0.12	0.23	0.46
F4 WB	I-40 WB NC 9 to US 74A	1.08	0.99	1.03	1.04	1.03	1.08	-0.04	0.04	0.05
F8 EB	I-40 EB Exit 37 to I-26	1.04	0.98	1.03	1.08	1.04	1.2	0.04	0.06	0.17
F9 EB	I-40 EB US 23/74 to Exit 37	1.03	0.98	1.02	1.01	1.01	1.01	-0.02	0.03	-0.01
F4 EB	I-40 EB US 74A to NC 9	1.11	1.02	1.01	1.06	1.05	1.05	-0.05	0.03	0.04
F3 EB	I-40 EB I-26 to US 74A	1.06	1.01	1.01	1.05	1.04	1.05	-0.01	0.03	0.04

Mobility Corridors

		2021			2019			Change		
CMP Code	Route	PTI Day	PTI AM	PTI PM	PTI Day	PTI AM	PTI PM	PTI Day	PTI AM	PTI PM
M12 NB	NC 9 NB Blue Ridge to US 70	1.74	1.42	2.31	1.93	1.55	2.13	0.19	0.13	-0.18
M17 EB	US 64 EB King to Howard Gap	1.58	1.4	2.13	2	1.54	2.18	0.42	0.14	0.05
M14 NB	NC 112 NB NC 191 to US 1923	1.35	1.38	2.1	1.72	1.41	2.44	0.37	0.03	0.34
M2 SB	US 25A SB I-40 to NC 280	1.39	1.15	2.1	1.6	1.2	2.28	0.21	0.05	0.18
M21 WB	US 19 WB Russ to Jonathan Creek	1.48	1.25	1.82	1.03	1.03	1.03	-0.45	-0.22	-0.79
M13 NB	NC 191 NB NC 280 to I-26	1.23	1.18	1.81	1.54	1.29	2.25	0.31	0.11	0.44
M17 WB	US 64 WB Howard Gap to King	1.62	1.41	1.79	1.93	1.53	2.04	0.31	0.12	0.25
M5 SB	US 25B SB Reems Creek to New Stock	1.48	1.42	1.76	1.6	1.47	1.75	0.12	0.05	-0.01
M12 SB	NC 9 SB US 70 to Blue Ridge	1.5	1.34	1.72	1.83	1.56	1.83	0.33	0.22	0.11

		2021			2019			Change		
CMP Code	Route	PTI Day	PTI AM	PTI PM	PTI Day	PTI AM	PTI PM	PTI Day	PTI AM	PTI PM
M5 NB	US 25B NB New Stock to Reems Creek	1.47	1.41	1.68	1.55	1.47	1.69	0.08	0.06	0.01
M20 NB	US 276 NB Main to US 19	1.5	1.38	1.67	1.36	1.24	1.47	-0.14	-0.14	-0.2
M2 NB	US 25A NB NC 280 to I-40	1.22	1.17	1.66	1.41	1.29	1.79	0.19	0.12	0.13
M13 SB	NC 191 SB I-26 to NC 280	1.18	1.11	1.66	1.72	1.37	2.74	0.54	0.26	1.08
M9 SB	NC 280 SB US 25 to Butler Bridge	1.36	1.25	1.65	1.59	1.36	1.92	0.23	0.11	0.27
M 15 SB	NC 280 SB Butler Bridge to 191	1.34	1.23	1.57	1.5	1.4	1.61	0.16	0.17	0.04
M8 NB	US 25 NB Cane Creek to BRP	1.26	1.16	1.57	1.52	1.41	1.68	0.26	0.25	0.11
M8 SB	US 25 SB BRP to Cane Creek	1.26	1.17	1.52	1.51	1.3	1.73	0.25	0.13	0.21
M9 NB	NC 280 NB Butler Bridge to US 25	1.34	1.26	1.47	1.51	1.38	1.53	0.17	0.12	0.06
M21 EB	US 19 EB Jonathan Creek to Russ	1.25	1.25	1.43	1.04	1.01	1.04	-0.21	-0.24	-0.39
M11 EB	NC 146 EB I-26 to US 25	1.26	1.31	1.42	1.45	1.47	1.54	0.19	0.16	0.12
M1 SB	US 19/23 WB Haywood to NC 151	1.25	1.15	1.42	1.43	1.31	1.55	0.18	0.16	0.13
M1 NB	US 19/23 EB NC 151 to Haywood	1.22	1.34	1.36	1.43	1.61	1.51	0.21	0.27	0.15
M11 WB	NC 146 WB US 25 to I-26	1.25	1.32	1.34	1.42	1.61	1.56	0.17	0.29	0.22
M7 WB	US 70 WB BRP to I-240	1.16	1.1	1.34	1.36	1.18	1.42	0.2	0.08	0.08
M20 SB	US 276 SB US 19 to Main	1.26	1.17	1.33	1.31	1.16	1.31	0.05	-0.01	-0.02
M14 SB	NC 112 SB US 1923 to NC 191	1.19	1.26	1.31	1.38	1.46	1.53	0.19	0.2	0.22
M18 EB	US 64 EB Brickyard to Blythe	1.18	1.23	1.31	1.11	1.11	1.12	-0.07	-0.12	-0.19
M6 NB	US 25 NB Beaverdam to New Stock	1.15	1.08	1.3	1.26	1.15	1.39	0.11	0.07	0.09
M15 NB	NC 280 NB 191 to Butler Bridge	1.15	1.13	1.27	1.38	1.35	1.46	0.23	0.22	0.19
M3 SB	US 74A SB I-40 to Old Fort	1.11	1.27	1.24	1.06	1.11	1.09	-0.05	-0.16	-0.15
M18 WB	US 64 WB Blythe to Brickyard	1.16	1.14	1.24	1.12	1.12	1.14	-0.04	-0.02	-0.1
M7 EB	US 70 EB I-240 to BRP	1.13	1.06	1.23	1.11	1.07	1.18	-0.02	0.01	-0.05
M3 NB	US 74A NB Old Fort to I-40	1.08	1.4	1.2	1	1.11	0.98	-0.08	-0.29	-0.22
M6 SB	US 25 SB New Stock to Beaverdam	1.07	1.11	1.17	1.15	1.12	1.2	0.08	0.01	0.03
M19 SB	US 25B SB Butler Bridge to 191	1.07	1.08	1.15	1.15	1.16	1.2	0.08	0.08	0.05
M19 NB	US 25B NB 191 to Butler Bridge	1.06	1.11	1.14	1.2	1.35	1.24	0.14	0.24	0.1
M16 SB	NC 191 SB 280 to Blythe	1.03	1.3	1.09	1.5	1.4	1.61	0.47	0.1	0.52
M4 SB	NC 63 SB Newfound to US 19/23	1.03	1.06	1.09	1.23	1.23	1.16	0.2	0.17	0.07
M4 NB	NC 63 NB US 19/23 to Newfound	1.01	0.98	1.06	1.06	1.03	1.06	0.05	0.05	0
M16 NB	NC 191 NB Blythe to NC 280	0.99	1.27	1.04	1.38	1.35	1.46	0.39	0.08	0.42
M22 NB	NC 209 NB US 23/74 to I-40	1	0.99	1.04	1.34	1.29	1.35	0.34	0.3	0.31

M23 NB	US 19 NB Main to Wiggins	0.98	0.92	1.04	0.98	0.95	1	0	0.03	-0.04
M23 SB	US 19 SB Wiggins to Main	1	1	1.02	1	1	1.02	0	0	0
		2021			2019			Change		
CMP Code	Route	PTI Day	PTI AM	PTI PM	PTI Day	PTI AM	PTI PM	PTI Day	PTI AM	PTI PM
M22 SB	NC 209 SB I-40 to US 23/74	1	0.97	1.02	1.03	1	1.03	0.03	0.03	0.01

Destination Corridors

		2021			2019			Change		
CMP Code	Route	PTI Day	PTI AM	PTI PM	PTI Day	PTI AM	PTI PM	PTI Day	PTI AM	PTI PM
D1 SB	US 25 SB Lodge to BRP	1.67	1.56	2.48	1.33	1.22	2.39	-0.34	-0.34	-0.09
D10 NB	US 25A NB I-40 to US 25	1.7	1.45	2.38	1.96	1.52	2.01	0.26	0.07	-0.37
D1 NB	US 25 NB BRP to Lodge	1.67	1.45	2.03	1.39	1.32	1.52	-0.28	-0.13	-0.51
D11 SB	Patton SB I-240 to Haywood	1.56	1.4	1.96	2.18	1.6	2.83	0.62	0.2	0.87
D3 SB	Haywood SB Patton to I-240	1.3	1.04	1.88	1.58	1.35	1.82	0.28	0.31	-0.06
D7 EB	Weaver EB from I-26 to Main	1.61	1.32	1.76	1.93	1.71	2.09	0.32	0.39	0.33
D7 WB	Weaver WB from Main to I-26	1.54	1.31	1.74	1.86	1.45	2.17	0.32	0.14	0.43
D8 WB	S Tunnel from NC 81 to Tunnel	1.42	1.13	1.67	1.47	1.24	1.57	0.05	0.11	-0.1
D11 NB	Patton NB Haywood to I-240	1.37	1.39	1.6	1.87	1.82	2.01	0.5	0.43	0.41
D3 NB	Haywood NB I-240 to Patton	1.19	0.99	1.46	1.16	1.09	1.18	-0.03	0.1	-0.28
D19 NB	N Main NB Pigeon to Walnut	1.38	1.12	1.45	1.84	1.59	1.65	0.46	0.47	0.2
D10 SB	US 25A SB US 25 to I-40	1.35	1.26	1.45	1.32	1.25	1.42	-0.03	-0.01	-0.03
D13 EB	US 64 EB Blythe to King	1.38	1.36	1.44	1.75	1.56	1.65	0.37	0.2	0.21
D8 EB	S Tunnel from Tunnel to NC 81	1.33	1.03	1.43	1.33	1.15	1.34	0	0.12	-0.09
D14 NB	NC 225 NB Highland Lake to US 176	1.25	1.13	1.31	1.37	1.16	1.37	0.12	0.03	0.06
D19 SB	N Main SB Walnut to Pigeon	1.31	1.03	1.31	1.56	1.36	1.36	0.25	0.33	0.05
D6 NB	US 25 NB I-240 to Beaverdam	1.23	1.08	1.3	1.41	1.28	1.47	0.18	0.2	0.17
D6 SB	US 25 SB Beaverdam to I-240	1.18	0.98	1.29	1.45	1.22	1.55	0.27	0.24	0.26
D13 WB	US 64 WB King to Blythe	1.28	1.36	1.28	1.47	1.53	1.41	0.19	0.17	0.13
D5 SB	NC 81 SB US 70 to Biltmore	1.15	1.07	1.25	1.45	1.22	1.55	0.3	0.15	0.3
D15 WB	US 176 WB Brooklyn to 225	1.18	1.08	1.24	1.44	1.44	1.63	0.26	0.36	0.39
D17 SB	US 25 SB 191 to 176	0.99	0.9	1.19	1.29	1.1	1.41	0.3	0.2	0.22
D18 SB	S Main SB Pigeon to Hyatt Creek	1.08	1.04	1.16	1.25	1.09	1.29	0.17	0.05	0.13
D15 EB	US 176 EB 225 to Brooklyn	1.06	1.03	1.15	1.37	1.36	1.44	0.31	0.33	0.29

FRENCH BROAD RIVER

METROPOLITAN PLANNING ORGANIZATION

Staff Report & Recommendations

Item 5A:

Draft 2024-2033 Transportation Improvement Program (TIP) Update

Draft 2024-2033 TIP Update

The “final” Draft 2024-2033 TIP is available here: <https://frenchbroadrivermpo.org/tip/>

This includes the swap that was approved by the MPO Board and NCDOT to swap-in the I-26/US 64 Interchange Improvements in place of Kanuga Road Modernization as well as the split of the Sweeten Creek Road widening.

Several other changes were made to project schedules as part of the “final” Draft STIP for projects in the FBRMPO region. That includes a one-year delay for the Liberty Road Interchange in Buncombe County on I-40 as well as a three-year delay for the planned widening of NC 112 (Sand Hill/Sardis Road), also in Buncombe County.

ROUTE/CITY	DESCRIPTION	PROJECT ID	CONSTRUCTION SCHEDULE DRAFT 2024-2033 STIP (AUGUST 2022)	CONSTRUCTION SCHEDULE FINAL 2024-2033 STIP (MARCH 2023)	CONSTRUCTION DRAFT STIP TO FINAL STIP CHANGE
I-40	I-40/SR 1228 (LIBERTY ROAD). CONVERT GRADE SEPARATION TO AN INTERCHANGE AND CONSTRUCT TWO LANE ROADWAY NORTH OF I-40 TO SR 1224 AND FOUR LANE ROADWAY SOUTH OF I-40 TO US 19/US 23/NC 151 WITH PARTS ON NEW LOCATION.	I-4759	2025	2026	1 YEAR DELAY
NC 112 (SARDIS ROAD/SANDHILL ROAD)	NC 191 (BREVARD ROAD) TO US 19/23 (SMOKEY PARK HIGHWAY). WIDEN ROADWAY.	U-6047	2028	2031	3 YEAR DELAY

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Long-Range Transportation Plan • Transportation Improvement Program

Highway Planning • Bicycle and Pedestrian Planning • Transit Planning • Air Quality

Public Involvement

FRENCH BROAD RIVER

METROPOLITAN PLANNING ORGANIZATION

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ROUTE/CITY	DESCRIPTION	PROJECT ID	CONSTRUCTION SCHEDULE DRAFT 2024-2033 STIP (AUGUST 2022)	CONSTRUCTION SCHEDULE FINAL 2024-2033 STIP (MARCH 2023)	CONSTRUCTION DRAFT STIP TO FINAL STIP CHANGE
US 25A (SWEETEN CREEK ROAD)	US 25 (HENDERSONVILLE ROAD) TO SR 3116 (MILLS GAP ROAD)	U-2801AA	2031	FUNDED FOR PRELIMINARY ENGINEERING ONLY	PROJECT UNCOMMITTED
US 25A (SWEETEN CREEK ROAD)	SR 3116 (MILLS GAP ROAD) TO ROCK HILL ROAD	U-2801AB	2031	2031	PROJECT SPLIT; COMMITTED
I-26	US 64 INTERCHANGE IMPROVEMENTS	I-4400BA	FUNDED FOR PRELIMINARY ENGINEERING ONLY	2029	PROJECT BECOMES COMMITTED
SR 1127 (KANUGA ROAD)	US 25 BUSINESS (CHURCH STREET) TO SR 1123 (LITTLE RIVER ROAD). UPGRADE ROADWAY.	R-5748	2029	FUNDED FOR PRELIMINARY ENGINEERING ONLY	PROJECT UNCOMMITTED

Next Steps:

The Board of Transportation plans to approve the Draft STIP at its June meeting. The FBRMPO plans to consider adoption of the Draft TIP at its August meeting.

Information Only

Item 5B:

Regional Trails Forum Update

- Regional Trail Forum meeting held on March 15th to continue with the aim of planning for an event in August 2023 with a rain date in September
- We have booked Smoky Park Supper Club for an August 31st event!
- Our theme is Networking Greenways
- ½ day with an optional greenway walk after closing/lunch
- Elected Official Coffee Hour in the morning before the event
- Topics will potentially include
 - Equity
 - Health/Wellness
 - Economic Impacts of Greenways
 - Networking Best Practices
- Bret Baronak from Carolina Thread Trail is the tentative keynote speaker
- Will be getting the group back together in the next few weeks, the doodle should be live!
- We plan on having sessions geared towards staff and interested citizens, mark your calendars!

FRENCH BROAD RIVER

METROPOLITAN PLANNING ORGANIZATION

Staff Report & Recommendations

Item 6A:

Division Project Updates

Division 13: https://frenchbroadrivermpo.org/wp-content/uploads/2023/05/Div13_May_Updates-1.pdf

Division 14: https://frenchbroadrivermpo.org/wp-content/uploads/2023/05/Div14_May_Updates.pdf

Item 6B:

TPD Updates

Item 6C:

FHWA/FTA Updates

FHWA Bipartisan Infrastructure Law Website: <https://www.fhwa.dot.gov/bipartisan-infrastructure-law/>

FTA Bipartisan Infrastructure Law Website: <https://www.transit.dot.gov/BIL>

Staff Report & Recommendations

Item 6D:

Committee & Workgroup Updates

Prioritization Subcommittee— met on May 3rd

Points of Discussion:

- CMP
- Draft 2024-2033 TIP
- PM 2 & PM 3
- Park and Rides

Transit Operators' Workgroup— last met on November 29, 2022;

Points of Business/Discussion:

- Next Transit Operator's Workgroup meeting: May 15 (1-2 p.m.), Sept. 18 (2-3 p.m.), and Nov. 6, 2023 (1-2 p.m.)
- **May 15 Tentative Agenda:**
 - **5307 funding updates**
 - For 5307 funding, Haywood County leaving Urbanized Area in FY 2024.
 - For FY 2022, FY 2023, Haywood County is still eligible for 5310, 5307 funds.
 - FY 2024 funds are the start of 5311 (Rural) funds, plus state Rural Operating Assistance Program (ROAP) funds for Haywood County.
 - FY 2025 and beyond, new State formula for 5311 funds? (NCDOT-IMD to discuss, no committee at this time)
 - **Henderson County Transit Plan update?**
 - **Joint City of Asheville-Buncombe County Transit Plan update?** (\$300,000 from each entity, for \$600,000 total study)
 - **NCDOT-IMD, Coordinated Regional Transit Plan**, for French Broad River MPO and Land of Sky RPO, status? (Bryan Lopez, NCDOT-IMD and AECOM)

5307 Subrecipient Workgroup- met on April 4, 2023

Points of Business/Discussion:

- Updated Urbanized Areas (UZAs) from US Census finalized and published January 9, 2023
- Asheville UZA land area shrank from 262 to 250 sq. mi., population increased from 279,201 to 285,495; new UZAs: Waynesville, 24,285 pop.; Canton, 8,812 pop., Brevard, 13,059 pop.
- FY 2023 allocations:
 - City of Asheville, 42.6%

Staff Report & Recommendations

- Buncombe County, 28.6%
- Haywood County, 8.3%
- Henderson County, 20.4%
- FY 2024 allocations (proposed):
 - City of Asheville, 46.8%
 - Buncombe County, 32.0%
 - Haywood County, n/a
 - Henderson County, 21.2%
- Discussion of 5307 Sub-Recipients allocation formula; MPO staff and Work Group members agreed to the following approach:
 - No new funding formula study at this time in light of Henderson County and Asheville-Buncombe County transit studies underway.
 - Keep the formula the same, albeit with updated FTA National Transit Database (NTD) operational data, but not population data from ESRI Community Analyst; only official US Census population data is the preferred source for population data.

Citizens' Advisory Committee- next meeting TBD

Hellbender Trail Stakeholder Group/Regional Trail Forum Updates- last meeting October 6th; next meeting TBD

Additional Items:

Recommended Actions: Accept the reports.

Item 6E:

Legislative Updates