

**BURLINGTON – GRAHAM METROPOLITAN PLANNING ORGANIZATION
TRANSPORTATION ADVISORY COMMITTEE**

TUESDAY, JANUARY 25, 2021 5PM

The meeting will be held remotely via WebEx

Meeting Information
Dial in: (408-418-9388)
Meeting number: 132 305 7775 Password: 82201252

Any member of the general public who wishes to make public comment should send an email to comments@burlingtonnc.gov or (336) 513-5418 by 12:00 p.m., noon, Monday, January 25, 2021 and the comment will be read during the public comment portion of the meeting

AGENDA

- 1) **Call to Order** **Chair**
- Welcome
 - Introduction of new TAC members – Steve Carter, Alamance County
 - Roll Call Attendance
 - Changes to Agenda / Add On Items
 - Speakers from the Floor – 3 minutes per speaker
 - NC Ethics Statement for TAC members

- 2) **Approval of Minutes from October 20, 2020 TAC Meeting** **Chair**

- 3) **Election of TAC Officers for 2021** **Chair**

INFORMATION: Per the BGMPO bylaws, the TAC shall elect a Chair and Vice Chair during the first meeting of each calendar year. All voting members of the TAC are eligible to hold an elected office for a one-year term.

RECOMMENDATION/ACTION: 1) Elect Chair and Vice-Chair

- 4) **Approval of 2021 TAC Meeting Calendar** **Chair**

INFORMATION: Staff requests approval of the draft TAC 2021 meeting calendar.

RECOMMENDATION/ACTION: 1) Receive information and discuss; 2) Approve the 2021 TAC Meeting Calendar.

- 5) **Draft FY22 Unified Planning Work Program (UPWP)** **Wannetta Mallette**

INFORMATION: The Unified Planning Work Program (UPWP) for the Burlington-Graham Metropolitan Planning Area is federally required and outlines all major transportation planning and related activities within the BGMPO Urban Area for the upcoming fiscal year (July 1, 2021 – June 30, 2022). While it is the mission of the BGMPO to complete work tasks within a fiscal year, projects may span fiscal years and therefore carried forward until completed. Implementation of UPWP work tasks are funded with Federal PL funds received

through a PL104 planning grant from the Federal Highway Administration (FHWA), North Carolina Department of Transportation and Section 5303 and 5307 Transit Planning Funds from the Federal Transit Administration (FTA). The federal government requires MPO's to certify their transportation planning processes on an annual basis as part of the UPWP approval process.

RECOMMENDATION/ACTION: 1) Receive the FY22 Draft UPWP as information and discuss; 2) Release draft FY22 UPWP for a 30-day public review period.

6) FY 2020-2024 TIP and 2045 MTP Amendments Wannetta Mallette

INFORMATION: The BGMPO Transportation Improvement Program (TIP) and 2045 Metropolitan Transportation Plan (MTP) consists of projects that have been amended in the NCDOT 2020 – 2029 State Transportation Improvement Program (STIP) as a result of STIP reprogramming. As the adopted Metropolitan Transportation Improvement Program (TIP) is a subset of the STIP, the TIP and MTP are in need of amendment to align with state and federally funded transportation projects within the BGMPO urban area. At its October 2020 meeting, the TAC approved releasing the amended TIP for public review and scheduled public hearing at its January 19, 2021 meeting.

RECOMMENDATION/ACTION: 1) Receive information and discuss; 2) Approve the amended TIP and 2045 MTP by resolution.

7) NCDOT Traffic Safety Unit Presentation Brian Mayhew, State Traffic Safety Engineer

INFORMATION: At its October 2020 meeting, the TCC and TAC approved the MPO Highway Safety Program with the goals to reduce transportation related fatalities and serious injuries in alignment with the state goal of achieving Vision Zero by 2050. As the MPO is required to integrate performance measures and targets into their transportation planning processes, the TCC requested additional information as to the progress NCDOT is making towards meeting its performance targets. Since that time, staff coordinated with NCDOT's Traffic Safety Unit, specifically in areas of data sharing, safety tools development, and shared safety project implementation. Representatives from the Traffic Safety Unit will present an overview of performance measures target setting and programs and projects designed to improve safety on North Carolina's roadways.

RECOMMENDATION/ACTION: 1) Receive information and discuss

Agenda Items #8 Tabled from October 20, 2020 TAC meeting

8) MPO Transportation Performance Measures and Targets Wannetta Mallette

INFORMATION: The MAP-21 final rule established the framework for States and MPOs to integrate performance measures and targets into their transportation planning processes. The MPO is required to set and show demonstrable progress towards meeting the performance targets and reflect those targets in their MTPs and MPO Planning Agreements with transit agencies, DOTs and planning partners. The STIP and TIP will also be aligned with the performance targets. MPO's have until February 27, 2021 to agree to adopt NCDOT's safety targets or commit to developing its own quantifiable performance measures. The five safety-related performance measures that were recently submitted as part of NCDOT's yearly Highway Safety Improvement Program annual report are: 1) Number of fatalities, 2) Fatality Rate (per 100 million VMT), 3) Number of Serious Injuries, 4) Serious Injury Rate (per 100 million VMT), and 5) Number of Non-motorized (Pedestrians + Bicyclists) Fatalities and Serious Injuries.

RECOMMENDATION/ACTION: 1) Receive information and discuss; 2) Endorse NCDOT’s safety targets (for each of the five measures) for FY21 by resolution.

9) **BGMPO Highway Safety Program Presentation** **Blake Cashmore**

The BGMPO will develop a Highway Safety Program with the objectives of raising awareness and changing public attitudes, behaviors and transportation systems to improve traffic safety within the region. Preliminary research conducted by staff highlights the necessity and potential benefits of the BGMPO Highway Safety Program. A component of the program is to establish a MPO Safety Subcommittee. One of the subcommittee’s first actionable items will be the development of the Highway Safety Plan.

RECOMMENDATION/ACTION: 1) Receive information and discuss; 2) Approve establishment of the MPO Safety Subcommittee; 3) Appoint TAC Subcommittee members.

10) **NCDOT BOT Update** **Mike Fox**

11) **FHWA Update** **Suzette Morales**

12) **NCDOT TPD Update** **Daryl Vreeland**

13) **NCDOT Division Engineer Report** **Stephen Robinson**

14) **Other Business** **Wannetta Mallette**

- P7.0 Subcommittee Update
- Reports and Questions from TAC Members
- **Next Meeting Scheduled March 16, 2021**

ACCESS TO INFORMATION:

ALL MPO DOCUMENTS AND DATA CAN BE PROVIDED IN ALTERNATIVE FORMAT UPON REQUEST

PLEASE CONTACT THE MPO OFFICE FOR ADDITIONAL ASSISTANCE AND INFORMATION

336-513-5418

ACCESO A INFORMACION

TODOS LOS DOCUMENTOS Y DATOS DE MPO SE PUEDEN PROPORCIONAR EN FORMATOS ALTERNOS A PETICION

POR FAVOR COMUNIQUESE CON LA OFICINA DE MPO PARA INFORMACION E ASISTENCIA ADICIONAL

336-513-5418

It is the policy of the Burlington Graham Metropolitan Planning Organization to ensure that no person shall, on the ground of race, color, sex, age, national origin, or disability, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity as provided by Title VI of the Civil Rights Act of 1964, the Civil Rights Restoration Act of 1987, and any other related non-discrimination Civil Rights laws and authorities.

MINUTES

**BURLINGTON-GRAHAM URBAN AREA
TRANSPORTATION ADVISORY COMMITTEE
TUESDAY, OCTOBER 20, 2020
VIA CONFERENCE CALL
5PM**

MEMBERS PRESENT

Leonard Williams, Gibsonville (Chair)
Mike Fox, NCDOT BOT
Jamezetta Bedford, Orange County
Monti Allison, Elon
Ken Jacobs, Whitsett
Melody Wiggins, Graham

BGMPO STAFF PRESENT

Wannetta Mallette
Blake Cashmore

NCDOT STAFF PRESENT

Stephen Robinson, Division 7
Daryl Vreeland, TPD

OTHERS PRESENT

Nathan Page, TCC Chair

FHWA PRESENT

Suzette Morales

Call to Order

Chair Leonard Williams called the October 20, 2021 TAC meeting to order at 5:04 p.m. and welcomed all members and guests. Mr. Blake Cashmore introduced himself as the MPO Transportation Planner. Ms. Wannetta Mallette conducted the membership roll call and determined a quorum. Ms. Mallette read aloud the NC Ethics Statement for TAC members. No known conflicts of interest were identified. Chair Williams then recognized those wanting to make public comments. No comments were made and Ms. Mallette reported none received in advance of the meeting. Chair Williams requested a motion to approve the agenda. Mr. Monti Allison made the motion seconded by Ms. Melody Wiggins. Chair Williams called for the voice vote:

Leonard Williams - Aye
Mike Fox - Aye
Jamezetta Bedford - Aye
Monti Allison - Aye
Ken Jacobs - Aye
Melody Wiggins - Aye

The motion carried by unanimous voice vote.

Approval of Minutes from October 20, 2020 TAC Meeting

Chair Williams requested a motion to approve the October 20, 2020 TAC meeting minutes. Ms. Jamezetta Bedford made the motion to approve the meeting minutes and Ms. Wiggins seconded the motion. Chair Williams then called for the voice vote:

Chair Williams - Aye
Jamezetta Bedford - Aye
Melody Wiggins - Aye
Mike Fox - Aye
Ken Jacobs - Aye
Monti Allison - Aye

The motion carried by unanimous voice vote.

Chair Williams said the next two agenda items were tabled from the August 18, 2020 meeting.

NCDOT Transportation Performance Management Update

Mr. Daryl Vreeland provided a brief overview of NCDOT’s Transportation Performance Management midterm performance measures report and reporting schedule, current targets, and progress towards meeting those targets. Mr. Vreeland explained that during the mid-term reporting period, NCDOT has the option of adjusting its 2018 four year targets. The state made no adjustments to its targets for safety, pavement and bridge, system reliability, freight, air quality for non-attainment and maintenance regions, or transit related measures.

2020 BGMPO Transportation Performance Measures and Targets

Ms. Mallette informed the TCC that the MPO is federally required to endorse NCDOT’s regional performance targets or commit to developing its own by February 27, 2021. The five safety-related performance measures that were recently submitted as part of NCDOT’s yearly Highway Safety Improvement Program annual report are: 1) Number of fatalities, 2) Fatality Rate (per 100 million VMT), 3) Number of Serious Injuries, 4) Serious Injury Rate (per 100 million VMT), and 5) Number of Non-motorized (Pedestrians + Bicyclists) Fatalities and Serious Injuries. State data shows the region’s five year fatalities and serious injuries rolling averages are trending upward. As a result, the MPO is proposing to implement a Highway Safety Program with the goals of reducing crashes and increasing public safety awareness.

She relayed that the TCC requested tabling this agenda item until obtaining more information from NCDOT's Traffic Safety Unit regarding target setting data analysis and an explanation of measures taken to meet or exceed performance goals.

Chair Williams requested a motion. Ms. Bedford made the motion to table the agenda item until more information is obtained from NCDOT's Traffic Safety Unit. Mr. Ken Jacobs seconded the motion and Chair Williams called for the voice vote.

Leonard Williams - Aye
Mike Fox - Aye
Jamezetta Bedford - Aye
Monti Allison - Aye
Ken Jacobs - Aye
Melody Wiggins - Aye

The motion was approved by unanimous voice vote.

BGMPO Highway Safety Program

Mr. Cashmore provided an overview of the MPO's proposed Highway Safety Program. The program's purpose is to follow a data-driven approach that will lead to zero traffic deaths in the BGMPO by 2050. The program includes development of a Highway Safety Plan and formation of a MPO Safety Subcommittee. He discussed the overall project schedule, key stakeholders and public engagement plan.

Mr. Allison applauded the MPO's efforts and requested the collection of accident frequencies by location and the development of an app that identifies high crash locations. Ms. Bedford said the MPO should ensure its goals are aligned with the state's performance goals.

There being no further discussion, Chair Williams called for a motion to approve the Highway Safety Program. Ms. Wiggins made the motion and Ms. Bedford seconded the motion. Chair Williams called for the voice vote.

Leonard Williams - Aye
Mike Fox - Aye
Jamezetta Bedford - Aye
Monti Allison - Aye
Ken Jacobs - Aye
Melody Wiggins - Aye

The motion was approved by unanimous voice vote

2020 - 2029 TIP and 2045 MTP Amendment

Ms. Mallette explained that NCDOT recently reprogrammed projects in the State Transportation Improvement Program (STIP) to ensure that the STIP remains fiscally constrained. A list of BGMPO projects affected by the STIP reprogramming was included in the agenda packets. As the adopted 2020-2029 Metropolitan Transportation Improvement Program (TIP) is a subset of the STIP, the TIP and recently adopted 2045 MTP are in need of amendment to align with state and federally funded transportation projects within the BGMPO urban area. MPO staff and the TCC are recommending the TAC approve the draft 2020 - 2029 TIP and release the draft for a 10-day public comment period in accordance with the Public Involvement Plan.

Chair Williams requested a motion to approve the draft amended TIP and to release the draft for public review. Mr. Mike Fox made the motion that was seconded by Ms. Bedford. Chair Williams then called for the voice vote.

Leonard Williams - Aye
Mike Fox - Aye
Jamezetta Bedford - Aye
Monti Allison - Aye
Ken Jacobs - Aye
Melody Wiggins - Aye

The motion carried by unanimous voice vote

SPOT 6.0 Proposed Division Needs Alternative Criteria and Weights

Ms. Mallette explained that alternate scoring criteria can be used for P6.0 Division Needs highway projects if there is concurrence among NCDOT Divisions and their respective MPOs and RPOs. Divisions 7 and its respective MPOs and RPOs are currently discussing whether to move all points from the Freight (5%) criteria to the Safety (10%) criteria as done in SPOT 5.0. Area specific weights are due to the SPOT office by October 23, 2020. Staff and the TCC are recommending the TAC endorse SPOT 6.0 Option #1 Alternative Criteria and Weights for Division Needs highway projects by resolution.

Chair Williams requested a motion to endorse SPOT 6.0 Option #1 by resolution. Mr. Fox made the motion and Ms. Wiggins seconded the motion. Chair Williams then called for the voice vote.

Leonard Williams - Aye
Mike Fox - Aye
Jamezetta Bedford - Aye
Monti Allison - Aye
Ken Jacobs - Aye
Melody Wiggins - Aye

The motion carried by unanimous voice vote

Transportation Planning Division

Mr. Vreeland announced the TAC's final opportunity to provide comments on NCDOT's NC Moves 2050 long-range plan. The draft recommendations and report were presented to the Board of Transportation at their October meeting and released for a 30-day comment period that will end November 9th. He said the survey and draft report are posted on the web at www.ncmoves.gov. Mr. Vreeland also thanked the TAC members for their assistance with the development of the NC Moves 2050 Plan over the past 2 years.

Division 7 Engineer Report

Mr. Stephen Robinson said there were no updates to the August 2020 Division report and that he would be the point of contact for Division 7 until further notice.

NCDOT BOT Update

Mr. Fox announced that the BOT approved NCDOT's annual spend plan and recommended the TAC view the plan posted on their website. The BOT also approved the reprogrammed STIP that changed a few of the region's construction project schedules.

FHWA

Ms. Suzette Morales announced FHWA's Every Day Counts initiative. The program is designed to identify innovative projects designed to enhance safety and protect the environment. She referred the TAC to the website for more information at <https://www.fhwa.dot.gov/innovation/everydaycounts>.

Adjournment

Ms. Mallette reported that the SPOT 7.0 Subcommittee held its first meeting. Subcommittee members elected Mr. Nish Trivedi as its Chair and expanded its membership to include a representative from Alamance County.

Ms. Mallette also announced the UPWP Special Studies Call for Projects. The deadline for applications is December 31, 2020.

There being no further comments, Chair Williams requested a motion to adjourn. Ms. Bedford made the motion seconded by Ms. Wiggins and the meeting adjourned at 5:46 p.m. The next TAC meeting is scheduled on **January 19, 2021**.



Burlington – Graham MPO Transportation Advisory Committee Schedule of 2021 Regular Meetings

All Transportation Advisory Committee (TAC) meetings are held at 5:00 p.m. in the City of Burlington Municipal Building 1st Floor Conference Room located at 425 S. Lexington Avenue. The TAC will hold all regular meetings in a virtual platform for the duration of the North Carolina Governor’s Covid-19 Executive Order.

January 19, 2021

March 16, 2021

May 18, 2021

August 17, 2021

October 19, 2021

*Burlington-Graham
Metropolitan Planning Organization*

DRAFT UNIFIED PLANNING WORK PROGRAM

FISCAL YEAR JULY 1, 2021 – JUNE 30, 2022

ADOPTED _____

FUNDS FOR THIS PLANNING WORK PROGRAM PROVIDED BY

**FEDERAL HIGHWAY ADMINISTRATION
FEDERAL TRANSIT ADMINISTRATION
NCDOT PUBLIC TRANSPORTATION DIVISION
CITY OF BURLINGTON**

BGMPO Unified Planning Work Program

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Prepared by the Burlington-Graham Metropolitan Planning Organization. For more information regarding this plan or any other BGMPO activity, please contact us at: Burlington-Graham Metropolitan Planning Organization, PO Box 1358, Burlington, NC 27216-1358. Visit our website for the most up-to-date information and downloadable documents at: www.bgmpo.org.

BGMPO Unified Planning Work Program

Overview

This document presents the FY 2021 - 2022 Unified Planning Work Program (UPWP) for the Burlington-Graham Metropolitan Planning Organization (BGMPO) study area. It delineates the activities to be accomplished during the period of July 1, 2021 through June 30, 2022, the funding requirements, and the work elements of the FY 2021 - 2022 UPWP.

Resolutions Certifying the Planning Process and UPWP

As part of the annual UPWP adoption process, the BGMPO TAC is required to approve the FY2021 – 2022 BGMPO UPWP and to certify that it adheres to the 3-C transportation planning process. The resolutions adopting the UPWP and certifying the transportation planning process is included as part of this work program.

RESOLUTION CERTIFYING THE BURLINGTON - GRAHAM METROPOLITAN PLANNING ORGANIZATION'S TRANSPORTATION PLANNING PROCESS FOR FY 2021 – 2022

- WHEREAS, the Transportation Advisory Committee has found that the Metropolitan Planning Organization is conducting transportation planning in a continuous, cooperative, and comprehensive manner in accordance with 23 U.S.C. 134 and 49 U.S.C. 1607; and,
- WHEREAS, the Transportation Advisory Committee has found the transportation planning process to be in compliance with Sections 174 and 176 (c) and (d) of the Clean Air Act (42 U.S.C. 7504, 7506 (c) and (d) (for nonattainment and maintenance areas only); and,
- WHEREAS, the Transportation Advisory Committee has found the transportation planning process to be in full compliance with Title VI of the Civil Rights Act of 1964 and the Title VI Assurance; and,
- WHEREAS, the Transportation Advisory Committee has considered how the transportation planning process will affect the involvement of Disadvantaged Business Enterprises in the FHWA and the FTA funded planning projects; and,
- WHEREAS, the Transportation Advisory Committee has considered how the transportation planning process will affect the elderly and the disabled per the provision of the Americans with Disabilities Act; and,
- WHEREAS, the Metropolitan Transportation Plan has a planning horizon year of 2045, and meets all the requirements for an adequate Transportation Plan.

NOW THEREFORE, be it resolved that the Burlington - Graham Urban Area Transportation Advisory Committee certifies the transportation planning process for the Burlington - Graham Metropolitan Planning Organization on this the ____ day of _____ 2021.

CERTIFICATE: The undersigned certifies that the foregoing is a true and correct copy of a resolution adopted by the voting members of the TAC on _____.

Date: _____

By: _____
TAC Chair

STATE of: North Carolina
COUNTY of: Alamance

I, _____, Notary Public of _____ County, North Carolina do hereby certify that _____ personally appeared before me on the ____ day of _____ to affix his signature to the foregoing document. Subscribed and sworn to me this ___ day of _____, 2021.

Notary Public

My commission expires _____.

RESOLUTION

**APPROVING THE FY 2021 - 2022 PLANNING WORK PROGRAM
OF THE BURLINGTON - GRAHAM URBAN AREA**

A motion was made by TAC Member _____ and seconded by TAC Member _____ for the following resolution, and upon being put to a vote was duly adopted.

WHEREAS, a comprehensive and continuing transportation planning program must be carried out cooperatively in order to ensure that federal funds for transportation projects are effectively allocated to the Burlington - Graham Urban Area; and,

WHEREAS, the Burlington – Graham Metropolitan Planning Organization has been designated as the recipient of Federal Highway Administration Planning Funds (PL 104(f)), Federal Transit Administration Metropolitan Planning Program (Section 5303) funds and Urbanized Area Formula Funding Program (Section 5307) funds; and,

WHEREAS, members of the Burlington - Graham Transportation Advisory Committee agree that the Planning Work Program will effectively advance transportation planning for FY 2021 - 2022;

NOW, THEREFORE, be it resolved that the Transportation Advisory Committee hereby endorses the FY 2021 - 2022 Planning Work Program for the Burlington - Graham Urban Area.



I, _____, Chairman of the Burlington - Graham Transportation Advisory Committee do hereby certify that the above is a true and correct copy of an excerpt from the minutes of a meeting of the Burlington - Graham Urban Area Transportation Advisory Committee, duly held on the _____.

Chairman
Transportation Advisory Committee



STATE of: North Carolina
COUNTY of: Alamance

I, _____, Notary Public of _____ County, North Carolina do hereby certify that Leonard Williams personally appeared before me on the _____ day of _____ to affix his signature to the foregoing document.

Notary Public
My Commission expires: _____

Public Involvement and Title VI

Federal legislation requires MPOs to include provisions in the planning process to ensure the involvement of the public in the development of transportation plans and programs including the MTP, the short-term TIP, and the annual UPWP. Emphasis is placed on broadening participation in transportation planning to include key stakeholders who have not traditionally been involved, including the business community, members of the public, community groups, and other governmental agencies. Effective public involvement will result in opportunities for the public to participate in the planning process.

Public input into this document was achieved in accordance with the adopted Public Involvement Plan of the BGMPO. TCC and TAC members were requested to provide project submittals for consideration of PL 5307 and 5303 funding. The draft document was also published on the BGMPO website at <http://www.bgmipo.org>. The availability of the final draft document was noted in the legal advertisement section posted in the local paper.

Background

The Metropolitan Planning Area (MPA) is the boundary in which the transportation planning process must be carried out. The MPA is made up of the census-defined Urbanized Area (UZA), plus the contiguous area expected to become urbanized within the next 20 to 25 years. A census-defined UZA consists of a central core (for the Burlington-Graham MPO the central core are the cities of Burlington and Graham) and the adjacent densely settled area that combined has a population of 50,000. The Burlington-Graham area was designated an urbanized area by the US Bureau of Census in 1974. As a result of this designation, the Burlington-Graham area formed the BGMPO by Memorandum of Understanding (MOU) in 1975. With this new designation came the responsibility of adhering to federal continuing planning requirements.

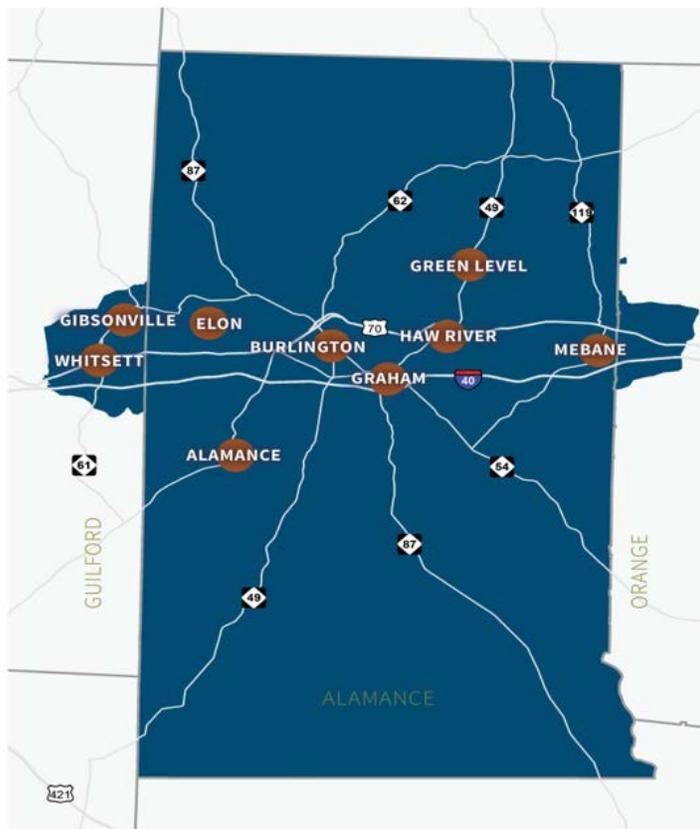
A revised MOU was executed between the cities of Burlington, Graham, and Mebane; the counties of Alamance, Guilford and Orange; towns of Elon, Gibsonville, Whitsett, Green Level and Haw River; Village of Alamance and the North Carolina Department of Transportation (NCDOT) in 2012. The MOU outlined responsibilities, established the City of Burlington as the Lead Planning Agency (LPA), and created a Technical Coordinating Committee (TCC) and Transportation Advisory Committee (TAC) to ensure coordination between the MPO, elected officials, and member agency planning staffs.

The BGMPO is required to prepare an annual UPWP that details and guides the work tasks undertaken within the fiscal year. The UPWP is funded in part by the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA). The federal funds are distributed to NCDOT and reallocated to state MPOs on an annual basis. These funds must be approved by the MPO TAC as part of the UPWP approval process. FHWA Section 104(f) planning funds are used by the LPA to support MPO administration and planning functions. The UPWP funding source tables reflect the eighty-percent (80%) FHWA funding and twenty-percent (20%) non-federal matching funds. The sources of funds for transit planning are the FTA Section 5303 and 5307 grants. Transit agencies can also use portions of their Section 5307 capital and operating funds for planning. The match is provided through either local or state funds or both.

BGMPO Area Boundary

The current BGMPO study area (Figure 1) encompasses over 435 square miles and includes all of Alamance County and portions of Guilford and Orange counties. The City of Burlington is the major population and employment center in the region. Like many urban areas, rapid growth and development have contributed to ever-increasing needs in transportation. By federal definition, the MPO's planning area must at least include the urbanized area (as defined by the U.S. Census Bureau) and the contiguous area that may reasonably be expected to become urbanized in the next 20 years.

Figure 1



Metropolitan Planning Factors and Federal and State Requirements

Federal transportation regulations require MPOs to consider specific planning factors when developing transportation plans and programs in the metropolitan area. Current legislation calls for MPOs to conduct planning that:

1. Supports the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency;
2. Increases the safety of the transportation system for motorized and non-motorized users;
3. Increases the security of the transportation system for motorized and non-motorized users;
4. Increases the accessibility and mobility of people and for freight;
5. Protects and enhances the environment, promote energy conservation, improve quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns;
6. Enhances the integration and connectivity of the transportation system, across and between modes, for people and freight;
7. Promotes efficient system management and operation;
8. Emphasizes the preservation of the existing transportation system.
9. Improves the resiliency and reliability of the transportation system and reduce or mitigate storm water impacts of surface transportation; and
10. Enhances travel and tourism.

FAST Act Planning Factors

Pursuant to the Moving Ahead for Progress in the 21st Century Act (MAP-21) Act enacted in 2012 and the Fixing America's Surface Transportation Act (FAST Act) enacted in 2015, state Departments of Transportation (DOT), MPOs, and public transportation providers must apply a transportation performance management approach in carrying out their federally-required transportation planning and programming activities with the goal of achieving the most efficient and effective use of transportation funding. FAST Act retains the previous eight factors that should be considered when developing plans and programs and adds three planning factors. The following outlines the eleven factors:

- Support economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency;
- Increase the safety of the transportation system for motorized and non-motorized users;
- Increase the security of the transportation system for motorized and non-motorized users;
- Increase the accessibility and mobility of people and for freight;
- Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns;
- Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight;
- Promote efficient system management and operation;
- Emphasize the preservation of the existing transportation system;
- Improve transportation system resiliency and reliability;
- Reduce (or mitigate) the storm water impacts of surface transportation; and
- Enhance travel and tourism.

Moving Toward Performance Based Planning

The U.S. Secretary of Transportation, in consultation with stakeholders, established performance measures to chart progress toward accomplishment of national goals established in MAP-21. In accordance with 23 CFR 450.324(f)(3)-(4)(i)(ii) of the Planning Rule, MPOs must include a description of the applicable performance measures and targets in their metropolitan transportation plans. Performance targets established by NCDOT and the BGMPO are based on the national performance measures guidance with the goals to improve decision making and project funding efficiency through performance-based planning and programming. The MPO work plan activities outlined in this document are aligned with the FAST Act national goals.

The regulatory changes to the planning process are intended to improve transportation investment decision-making through increased transparency (through the requirement of performance targets) and accountability (via a requirement to report on progress toward meeting targets) and to support a core set of national goals. State DOTs and MPOs are free to adopt additional locally defined performance measures and targets through a coordinated process that also includes transit service providers.

Additional performance plans are now required under MAP-21 for the BGMPO include the:

- Metropolitan System Performance Report
- Transit Asset Management Plan
- Target Achievement
- Special Performance Rules – performance elements related to safety (high-risk rural roads and older drivers and pedestrians), Interstate Pavement Condition, and National Highway System Bridge Condition
- Performance Reporting – MPOs must report to NCDOT its progress toward achieving targets and NCDOT will assess such progress

BGMPO Unified Planning Work Program

Moreover, MPOs and public transportation service providers are required to establish performance targets and to coordinate the development of these targets to ensure consistency. The BGMPO current performance measures are included in the 2045 Metropolitan Transportation Plan described below.

Metropolitan Transportation Plan

The Metropolitan Transportation Plan (MTP) is a long-range plan for transportation improvements across the region. This plan includes roadway, transit, bicycle, pedestrian, aviation, freight, and other transportation projects expected to be constructed within a minimum 20 to 25-year planning horizon. The BGMPO is required to update its MTP required every five years. The BGMPO 2045 MTP was developed over a sixteen-month period which began March 2019 and ended with final plan adoption on June 16, 2020. The planning process involved the general public, member jurisdictions, key stakeholders, the TCC and TAC, NCDOT and federal and state regulators.

Metropolitan Transportation Improvement Program

The BGMPO is also responsible for developing a Metropolitan Transportation Improvement Program (TIP). The TIP is a financially constrained program for addressing transportation priorities within a five-year time horizon consistent with the MTP. The TIP is regional in scope and lists the construction and anticipated funding schedule for each included project. Project phases can include preliminary engineering, design, environmental review, right-of-way acquisition, and construction. The TIP must include the following:

- A list of proposed federally supported projects and strategies to be implemented during the TIP reporting period to include project schedules and costs.
- A proactive public involvement process.

Air Quality Conformity Process

Transportation-air quality conformity ("conformity") is a way to ensure that federal funding for transportation improvements are consistent with regional air quality goals. Conformity applies to MTPs and TIPs and to projects funded or approved by the FHWA or FTA in areas that do not meet -- or have recently not met -- air quality standards for ozone, carbon monoxide, particulate matter, or nitrogen dioxide. These areas are known as "non-attainment areas" or "maintenance areas," respectively. A conformity determination demonstrates that the total emissions projected for a plan or program are within the emissions limits ("budgets") established by the State Implementation Plan (SIP) for air quality, and that transportation control measures – specific projects or programs enumerated in the SIP that are designed to improve air quality – are implemented in a timely fashion.

A portion of the BGMPO planning area that falls within the Triangle region boundary is currently designated as a "maintenance area" for the 8-hour ozone standard. The BGMPO will continue to implement activities, including air quality analysis and conformity determination in its MTP and TIP. The BGMPO will work with the FHWA and NCDOT in making conformity determinations by performing systems level conformity analysis on the highway portion of the MTP.

Comprehensive Transportation Plan

Under State law (N.C.G.S. § 136-66.2), for municipalities and counties, or portions thereof, located within an MPO planning area, the development of a Comprehensive Transportation Plan (CTP) is the responsibility of NCDOT. The CTP is the element of the Metropolitan Transportation Plan that identifies unfunded regional transportation needs. The CTP is not required to be fiscally constrained and no minimum horizon year or update timeframes are specified. The BGMPO and NCDOT share the responsibility of recommending projects to ensure that transportation facilities reflect the needs of the region.

Proposed FY 2022 UPWP Activities

BGMPO activities and emphasis areas for the FY 2022 UPWP are summarized as follow:

- Continued NCDOT, Division and NC AMPO coordination
- Implementation of MAP-21 and Fast Act MPO requirements
- Implementation of Highway Safety Program
- Development of CommunityViz future year parcel line layer; participation in regional growth workshops; co-hosting MPO CommunityViz Workshops
- Continued P6.0 work activities associated with STI Prioritization
- Continued Title VI Program and Public Involvement Plan compliance
- Monitoring of MPO Transit Performance Measure Targets and TAM Plans
- Continued administrative tasks – TCC and TAC coordination, UPWP, GIS, etc.
- Continued implementation and update of TIP and MTP
- Implementation of Special Studies
- Continued of data collection/inventory and assessment of travel behavior patterns
- Development of P7.0 project selection criteria
- Other Comprehensive, Cooperative, and Continuing (3-C) initiatives eligible for Federal transportation funding

FY 2022 Special Emphasis Projects

Special emphasis projects and new initiatives for the FY2022 UPWP are described below:

Special Studies

The BGMPO annually designates a portion of planning funding for Special Studies. Special Studies include staff time for project management activities to ensure consistency with FHWA, FTA and NCDOT procurement requirements and intergovernmental project coordination. At least two special studies are anticipated in FY 2021 – 2022. The MPO anticipates soliciting consultants to assist MPO staff and member jurisdictions with project implementation on an as-needed basis (on-going throughout fiscal year).

US 70 West Multimodal Corridor Study

This study would analyze the US 70 Corridor from NC-119 Bypass - Lake Latham Road intersection - in Mebane to the NC-751 intersection. The study will evaluate existing multimodal corridor needs, existing and future regional travel needs, safety improvements, potential transit service and facilities, and the community vision and desires for this portion of the US 70. Prior corridor studies have not addressed the need to identify designated non-arterial (local) streets access points for residents and businesses (access management). Additionally, there are potential opportunities for transit improvements with connections to other regional transit service extending to Durham, RTP, RDU or Raleigh. The project sponsors are identified as the City of Mebane, Town of Hillsborough, Orange County, DCHC MPO and BGMPO, and NCDOT. The study would commence early 2022 and conclude summer 2023, thus spanning two UPWP fiscal years. The study will be managed by Orange County and conducted by a consultant.

BGMPO Highway Safety Plan

The BGMPO will develop a Highway Safety Program with the objectives of raising awareness and changing public attitudes, behaviors and transportation systems to improve traffic safety within the region. The overriding goal of the program is to achieve zero traffic deaths in the BGMPO by 2050 aligning the MPO with the North Carolina Strategic Highway Safety Plan. Approval to develop and implement the program was granted by the TAC, October 2020. A component of the program is to develop a regional Highway Safety Plan. The BGMPO will develop the plan in collaboration with and support of NCDOT's Vision Zero initiative with the goal to reduce the human and economic toll on the region's multi-modal transportation system due to transportation crashes and injuries. The plan's scope will include evaluating risk reduction measures – transportation engineering, traffic enforcement, public awareness and education, and assessing travel behavior patterns – in an effort to improve transportation safety.

The plan will also establish performance measurement baselines and an evaluation criterion to assess progress towards meeting or exceeding performance targets. The proposed project schedule for developing the plan is July 1, 2021 – March 31, 2022. The study will be managed by the MPO and conducted by a consultant.

Data Collection and Management

The MPO is required by federal regulations and the 3-C process to perform continuous data monitoring and maintenance. The purpose of this task is to collect, maintain and analyze traffic count, regional land use, socio-economic and environmental data that will be used in regional demographic forecasting, transportation planning, land use planning, air quality planning, emergency planning, Title VI and economic development efforts. BGMPO will continue to participate, provide input to member jurisdictions and agencies in the development of local comprehensive plans, and provide guidance to NCDOT Project Development and NEPA on land use and zoning issues affecting the project development and process.

Regional Traffic Count Program

The BGMPO, in cooperation with the City of Burlington, will use traffic cameras for (13-hour) full-turning movement counts and submit the data to a private contractor for analysis. All of the proposed count sites will be scheduled on a biennial schedule. The traffic count data will be part of the metrics used to measure performance targets under MAP-21 and included in our Piedmont Regional Travel Demand Model update, as well as to fill a jurisdiction's particular need. In addition to the regularly schedule traffic counts, numerous other special counts will be taken to support specific transportation planning projects, or at the request of local governments for various reasons. A number of transportation and traffic conditions will be continuously surveyed and compiled annually to feed into various MPO technical analyses such as modeling, Metropolitan Transportation Plan update, project development, Title VI planning, EJ/LEP demographic profiles, TIP, project prioritization, etc.

The BGMPO re-evaluated its traffic count program in an effort to begin a comprehensive and systematic approach to data collection and management, to be consistent with statewide traffic data collection, and for use in the regional travel demand model. Expansion of traffic count location program will be delayed to the next fiscal year due to Covid-19 traffic variabilities.

Piedmont Triad Regional Model (PTRM) – Travel Demand Model Enhancement

The Piedmont Authority for Regional Transportation (PART), in coordination with NCDOT, is the custodial manager of the BGMPO Regional Travel Demand Model (RTDM). The travel demand model program consists of four elements: the RTDM, the Advanced Freight Model (AFM), the Transit Boarding and Estimation Simulation Tool (TBEST) and CommunityViz Scenario Model (CVSM). The program is jointly funded by MPOs within the Triad area. The BGMPO assists PART in the collection and analysis of socio-economic and travel characteristics data to determine future year travel demand. Specifically:

- Assisting member jurisdictions with review of parcel tagging and verifying application of appropriate suitability factors for the Piedmont Triad CommunityViz Model
- Coordination with the integration of the Piedmont Triad CommunityViz Model for updating SE data and forecasts used by the travel demand model
- Review and update SE data with the Piedmont Triad CommunityViz and other data from different sources
- Tracking and documenting population estimates and projections from Office of State Budget and Management and socioeconomic databases
- Utilizing NCDOT shapefiles and HERE data to update attributes of the travel demand network
- Obtaining Phase III freight data such as truck count data and survey data for the calibration and validation of the freight tour-based model
- Completing Household Travel Survey data collection for inclusion in Regional Travel Demand Model

Targeted Planning

The BGMPO's Complete Streets Initiative creates a safe and efficient transportation network that promotes the health and mobility of all residents and visitors by providing safe, high quality multimodal (pedestrian, bicycle, transit and automobile) access throughout the region. The BGMPO will take the necessary steps to assess the pre- and post-

conditions of our Complete Streets projects during the prioritization process and project scoping meetings for STIP committed projects. Metrics related to the mobility, safety, health and sustainability, and economic vitality will be used to evaluate the success of all of our future projects. As part of the Complete Streets Initiative, the BGMPO also will conduct walking and bike audits, trainings and hosts community engagement events to promote active transportation. Additionally, the BGMPO provides technical assistance to its partners by offering workshops and attending Healthy Alamance meetings, trainings and workshops. To complement these efforts, the BGMPO will create develop P7.0 project selection criteria that to guide investments in Complete Streets and prioritizes active transportation projects.

Title VI Planning

The purpose of this work task is to ensure that no person will, on the grounds of race, color, national origin, income, gender, age, and disability, as provided by Title VI of the Civil Rights Act of 1964 and the Civil Rights Restoration Act of 1987 (PL 100.259), be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity administered by the BGMPO. The BGMPO will update its Title VI and Limited English Proficiency (LEP) Program Plans to ensure consistency with current guidelines and continue to monitor the Title VI program and implement Title VI Assurance.

Anticipated DBE Contracting Opportunities for FY 2021 – 2022

The BGMPO is anticipating two Special Studies contracting opportunities for Disadvantaged Business Enterprises (DBEs) for FY 2021-2022; the US 70 West Corridor Study and MPO Highway Safety Plan. It is the policy of the BGMPO to ensure that DBEs as defined in 49 CFR Part 26 have an equal opportunity to receive and participate in federally-assisted contracts. Implementation of the DBE program is in compliance with all other legal obligations incurred by the BGMPO in its financial assistance agreements with the Department of Transportation. Contracting opportunities will be distributed to DBE and non-DBE business communities that perform work for the BGMPO on federally assisted contracts. The dissemination will be accomplished by posting a link on the BGMPO website and through targeted bid solicitations.

BGMPO Administration and Management

The BGMPO has a “hosted” administrative structure. The MPO is housed within the City of Burlington and the City acts as the fiscal agent for the MPO. Although hosted, the BGMPO retains a separate name and identity from that of its host. In recent years, federal and state legislation, regulations, and technological innovations have increased the complexity of the BGMPO activities and work tasks. The BGMPO functions include preparing planning and programming documents, procurement, general agency administration, staff training, managing and serving on project team and steering committees, and conducting public involvement to engage the public in the activities and decision-making processes of the MPO.

FY 2022 UPWP Funding Sources

FY 2022 UPWP funding levels as well as the descriptions of funding sources is summarized below.

Planning (PL) Section 104(f) – The proposed Section 104(f) funding level is based on the FAST-ACT Section 104(f) allocation. The PL funding apportionment to the state is distributed to the MPOs through a population-based formula. Federal funding accounts for 80% of UPWP funding and require a 20% local match. Local match is a resource commitment, beyond federal funding, made by the sub-grantee and/or other local agencies. Local match cash contributions cannot include cash from any federal funding sources or reimbursements made with federal dollars. The City of Burlington has agreed to provide \$100,772 in matching funds needed to receive the regional federal funding.

The BGMPO PL fund allocation for FY 2022 is below:

PL Section 104(f) Funds (80%) \$261,493
Local match/City of Burlington (20%) \$65,374
Total \$326,867

FTA Funds - Two types of funds are used for transit planning purposes by the BGMPO; Section 5303 and Section 5307 funds administered through the Federal Transit Administration (FTA) and the NCDOT Public Transit Division. The BGMPO is served by four regional and one fixed route transit systems: Orange County Public Transportation (OPT) serves all of Orange County and parts of Alamance County. Go Triangle operates a regional bus service connecting Durham to Raleigh, Chapel Hill, Apex, Hillsborough, and Wake Forest. The Alamance County Transportation Authority serves the transportation needs of the elderly, disabled, and general public in Alamance County. The Authority utilizes vans and buses which are ADA equipped, including wheelchair lifts, to assist persons with specialized needs. The Piedmont Authority for Regional Transportation (PART) Alamance Burlington Express connects Greensboro, Burlington, Graham, Mebane, and Chapel Hill and the Burlington Link Transit serves Burlington, Gibsonville, and Alamance Community College. At the time of the draft UPWP, the previous FTA fiscal year distributions are listed as the FY21 allocations are not yet known.

Section 5303 funds are grant monies from FTA that provide assistance to urbanized areas for transit planning. The funds are for planning and technical studies related to urban public transportation. They are provided from the FTA through the NCDOT-PTD to the MPO (80% from FTA, 10% from NCDOT-PTD, and 10% local match).

Federal (80%) \$53,980
State (10%) \$43,184
Local/City of Burlington (10%) \$5,398
Total Sect. 5303 \$5,398

Section 5307 funds can be used for transit planning as well as other related purposes, and are distributed by formula by FTA. These planning funds require a 20% local match. The MPO is eligible to use Section 5307 funds for assistance on a wide range of planning activities and will utilize funding for administration associated with regional transit planning, safety target setting and monitoring, prioritization, etc. Activities include implementation of the Regional Transit Operators MOU and Transit Safety Subcommittee facilitation. These planning funds require a 20% local match.

Federal (80%) \$120,000
Local/City of Burlington (20%) \$30,000
Total Sect. 5307 \$150,000

UPWP Work Items

II-A Data Management and Planning Support

Objective: To monitor travel and development patterns in order to determine growth areas and identify potential transportation/congestion management issues and intermodal linkages.

1	Programmed Amount: \$68,000	21% Staff Budget
II-A-1	(Traffic Volume Counts) Traffic data is needed for continuous and on-going MPO planning activities. The work task includes annual intersection counts for maintenance and monitoring of the computerized signal system. Traffic count data analysis will be made available to PART, the NCDOT, and member jurisdictions upon request. Counts will include intersection turning movement and average daily traffic counts as needed.	
II-A-1	(Street System Change) As development continues and travel demand boundaries are modified, the MPO will monitor regional street network changes for revisions and updates to the MTP, CTP and/or MPO planning activities. This work task also involves the review of construction project schedules, participation in project scoping meetings and NCDOT routine coordination.	

- II-A-1 (Traffic Accidents) Use NCDOT Crash Data as needed for planning studies, mapping high accident locations, and developing infographics.
- II-A-1 (Transit System Data) Short-range and mid-range transit planning efforts will be conducted by the MPO in cooperation with regional transit providers. Data will continue to be collected to inform various transit planning efforts to include the evaluation of transit service performance, development of cross-regional route(s), universities/college route(s) and urban service routes that extend beyond the boundaries of the general BGMPO area. Data collected will be used to monitor service to meet NCDOT and FTA reporting requirements. The MPO will continue to assist and support the transit planning and administration of the Link fixed route system.
- II-A-1 (Mapping) Create and maintain GIS mapping of MTP, TIP, CTP, TAZ and census data maps for the MPO.
- II-A-1 (Bicycle & Pedestrian Inventory) Assist with area-wide bike and pedestrian improvement projects and update MTP accordingly. Conduct activities associated with the Highway Safety Program. Identify grant programs for MPO members to participate/apply.

II-A-2 Travelers and Behavior

Objective: To improve the quality of transportation plans and other planning endeavors in the BGMPO planning area through ongoing collection and maintenance of data related to existing and proposed land uses and evolving socioeconomic conditions affecting transportation planning.

- II-A-2 (DU/Population & Employment Changes) Review, analyze, and evaluate information collected from census data, private and public demographic databases and other sources as it is available and required for transportation planning efforts.
- II-A-2 (Collection of Base Year Data) Monitor changes that are related to planning tasks within the MPO planning boundary. Compare existing characteristics with projections to anticipate planning needs and activities. Continue to build and maintain a data repository of information to support local and regional transportation efforts. This task is also supported by the Piedmont Triad Regional Travel Model process via the Piedmont Authority for Regional Transportation (PART). Evaluate by TAZ if needed to determine population, housing density, employment, etc.
- II-A-2 (Travel Time Surveys) This work task will be conducted by PART in cooperation with area Triad MPO's. Travel surveys will collect origin and destination data used for travel demand modeling.
- II-A-2 (Capacity Deficiency Analysis) Collect and review existing and traffic forecasts and the travel demand model to evaluate systemwide LOS conditions. This data will be used to evaluate transportation improvements and develop problem statements (purpose and need) for priority projects.

II-A-3 Transportation Modeling

Objective: To assist in maintaining the Piedmont Triad Regional Model (PTRM) for the BGMPO planning area that provides capacity to perform simulations and scenario planning on a continuing basis for examining localized modeling for traffic activity within the BGMPO planning area.

- II-A-3 (Travel Model Update) The MPO will continue to coordinate with the NCDOT, PART and regional MPO's to develop the regional travel model and assist as needed in assessment of transportation modeling databases and planning tasks to be completed for long range planning updates. The MPO will utilize the updated regional model in cooperation with all model team members and provide staff support and financial resources for model maintenance. Consultants may be contracted to provide additional model support during the year.

II-A-3 (Forecast of Future Travel Patterns) Review of transportation planning documents, ITS studies and new technologies for impacts to future travel patterns. Testing of alternative/future travel patterns is also an element in the Regional Model and CTP Update task. Provide guidance and expertise on the variables and characteristics of travel behaviors and encourage modal choice.

II-A-3 (Financial Planning) Update and adjust cost estimates on regional projects as needed based on NCDOT's spending plan. The MPO will develop realistic, best estimates of funding sources available and project cost estimates throughout the forecast years for the STIP, MTP and TIP and other pertinent planning efforts. Monitor and adjust cost estimates prepared for MTP Horizon Year tables.

II-B Planning Process

Objective: **To plan for efficient movement of people and goods through linkages between modes of transportation by updating both the MTP and CTP; to examine transportation system deficiencies and determine areas of congestion (incident and recurring) throughout the urban area, which may be reduced by congestion management techniques and strategies, making more efficient use of the existing transportation system including times of emergencies to include improvements in the City of Burlington signal system.**

Programmed Amount: \$105,000

32% Staff Budget

II-B-1 (Air Quality Planning/Conformity Analysis) Monitor regulatory agencies and review proposed standards - in combination with the Triad and Triangle Modeling effort. The MPO staff also monitored state and federal air quality regulations and their relationship to the Travel Demand Model process. Participation on the Triad Interagency Coordination Team and consultation process.

II-B-1 (Freight Movement / Mobility) Regional Freight Study Phase III that the MPO will use to better integrate freight and goods movement into the regional transportation planning process. Freight policies, strategies, and projects specific to BGMPO region identified in the study will be incorporated into the next update of the MTP and MTIP. Freight deficiencies and improvement strategies will be developed. This work is also associated with the Model Development work task.

II-B-2 Regional Planning

Objective: To increase public awareness and implement the shared vision of the BGMPO planning area in 2045, particularly focused on enhancement of identified multimodal corridors and systems.

II-B-2 (Community Goals & Objectives) - Conduct open TCC and TAC meetings to allow public input and community involvement. The MPO will work with member agencies and the public to gather community input on the region's transportation goals and objectives for all modes.

II-B-2 (Highway Element of the MTP) - Continue update of traffic data for MTP/CTP and Travel Model. Incorporate the Comprehensive Transportation Plan mapping and descriptions.

II-B-2 (Transit Element of the MTP) - Collect, analyze and store data necessary for conducting a viable transit planning process. Coordinate local and regional transit planning activities, and encourage citizen knowledge and awareness of public and private transit services.

II-B-2 (Bike & Ped Element of the MTP) - Work with MPO partners to update bike and pedestrian maps as needed. Work with MPO partners to consider local bike and pedestrian plans for future adoption.

II-B-3 Special Studies

Objective: To examine specific projects involving multimodal issues and linkages with land use, as well as factors that affect future growth patterns, economic development, community design, and impacts on the transportation systems (special area plans, traffic impact studies, corridor studies, CTPs, etc). The MPO will conduct and assist member jurisdictions conducting transportation planning studies on an as-needed basis pending TAC approval. Two studies have been identified for FY 22: *US 70 West Multimodal Corridor Study* to analyze the US 70 Corridor from NC-119 Bypass - Lake Latham Road intersection - in Mebane to the NC-751 intersection. The study would commence early 2022 and conclude summer 2023, thus spanning two UPWP fiscal years. The study will be managed by Orange County and conducted by a consultant. *BGMPO Highway Safety Plan* to establish performance measurement baselines and an evaluation criterion to assess progress towards meeting or exceeding NCDOT regional performance targets. The proposed project schedule for developing the plan is July 1, 2021 – March 31, 2022. The study will be managed by the MPO and conducted by a consultant.

III-A Planning Work Program

Objective: **To maintain the current fiscal year UPWP and develop a UPWP on an annual basis.**

Programmed Amount: \$12,500

4% Staff Budget

III-A-1 (Planning Work Program) MPO staff will continue to develop a draft UPWP; present draft UPWP to TCC and TAC for review and adoption; evaluate, administer, and amend the final UPWP as necessary; and, develop quarterly reports and invoices to NCDOT for reimbursement of planning funds. Prepare UPWP amendments and corresponding resolutions as needed.

III-B Transportation Improvement Program

Objective: **To maintain the Transportation Improvement Program (TIP) and appropriate revisions as needed through the Strategic Prioritization Process and STIP updates; to develop the TIP with a comprehensive update for adaption every five years.**

Programmed Amount: \$40,000

12% Staff Budget

III-B-1 (Prioritization/Transportation Improvement Program) Continue to refine the previous year TIP based on NCDOT program changes, satisfying federal and state requirements. Prepare and process changes or amendments necessary. Staff will participate as necessary in workshops, training, and meetings regarding the NCDOT prioritization process (Ongoing throughout fiscal year). Coordinate with SPOT Office and member jurisdictions with development of draft STIP and TIP. Monitor TIP and MTP and present updates based upon STIP updates and amendments.

III-C Civil Rights Compliance/Other Regulations

Objective: **To continue active citizen education, participation and underrepresented populations involvement in all aspects of the BGMPO planning process.**

Programmed Amount: \$10,000

3% Staff Budget

III-C-1 (Civil Rights Compliance Title VI) The MPO will annually adopt certifications and assurances to conform to the state and federal Title VI regulations. The MPO complaint process and the access to information will be monitored for update. MPO staff will work with NCDOT's Office of Civil Rights and Business Opportunity and Workforce Development Office (BOWD) and all member governments to ensure that MPO projects and programs meet the intent of all applicable Title VI legislation.

- III-C-2 (Environmental Justice) Review and monitor public participation processes for environmental justice compliance. Evaluate Public Involvement Plan and project planning for updates or improvements.
- III-C-3 (Disadvantaged Business Enterprise/Minority Business Enterprise) Develop procurement programs and adhere to federal, state and local policies regarding the active participation of disadvantaged and minority businesses in MPO solicitations.
- III-C-6 (Public Involvement) To increase public participation in the metropolitan transportation planning process especially from those segments of the population that are considered to be traditionally underserved through a comprehensive public outreach program in accordance with the Public Involvement Plan; increase public awareness of the MPO and its role; increase the opportunities for public involvement; and update the Public Involvement Plan as necessary.

III-D Statewide and Extra-Regional Planning

Objective: To support statewide and regional transportation and related planning efforts. To foster better coordination of planning efforts across jurisdictional boundaries, promote better informed decision-making by policy makers and an informed general public. To support implementation of the 2045 MTP.

Programmed Amount: \$10,000

3% Staff Budget

- III-D-1 (Regional & Statewide Studies) Coordination with federal, state and regional stakeholders on various transportation planning efforts.

III-E Management Operations/Program Support Admin.

Objective: To effectively and efficiently administer and manage initiatives of the MPO, facilitate TAC and TCC advisory committees and subcommittees; ensure compliance with federal and state requirements with regard to MPO activities; special studies procurement; review and development of various reports; staff training and resources to conduct MPO activities.

Programmed Amount: \$81,367

25% Staff Budget

- III-E (Incidental Planning & Project Development/Operations)
To maintain an effective and efficient continuing, cooperative and comprehensive (3-C) transportation planning process in the administration and operation of MPO duties and functions. Monitor of state and federal transportation legislation, assist in the procurement of MPO and member jurisdiction special studies. Facilitate and attend MPO-meetings, webinars, workshops and conferences. Technical review and analysis of transportation plans and documents. TCC and TAC member coordination to include the facilitation of meetings and public hearings, public notification and website maintenance and updates. Provide technical services in support and maintenance of GIS data layers, shapefiles and geodatabases.

(Travel)

Given the increased risk exposure inherent in traveling, the BGMPO will discourage business travel and follow local and state travel policies related to COVID-19. NCDOT has implemented a pre-approval procedure to review the eligibility for all training paid with federal funds unless included in the UPWP. The BGMPO anticipates attending the following virtual events, meetings, conferences and training in addition to those that are reasonable and necessary for the normal course of business:

- NCAMPO (conference and all other meetings/events)
- AMPO (conference and all other meetings/events)
- TRB (conference and all other meetings/events)
- AASHTO (conference and all other meetings/events)
- NHI (conference and all other meetings/events)

- NTI (conference and all other meetings/events)
- APA (conference and other meetings/events related to transportation/land use/
tech skills/law/ethics)
- APA-NC (conference and other meetings/events related to transportation/land use/
technical skills/law/ethics)
Alamance Community College (continuing education/professional certification classes)
- USDOT (conference and all other meetings/events)
- NCSU – ITRE (training and all other meetings/events)
- ESRI (conference and other meetings/events related to transportation/land use/
tech skills/law/ethics)
- Caliper (conferences and other meetings/events related to transportation/land use/tech skills)
- NCDOT (meetings/classes/summits/workshops/workgroups/public meetings/steering
committees, etc.)
- MPO/RPO (regional or division wide meetings)
- Member jurisdictions (transportation related public meeting, workshops, events, steering
committees, etc.)

Burlington - Graham Urban Area MPO 2021-2022 PWP

Metropolitan Planning (PL) 23 U.S.C. 104(f) Funding Summary

FTA CODE	TASK CODE	TASK DESCRIPTION	MPO Planning and Admin - PL		
			Highway / Transit		TOTAL
			Local 20%	Federal 80%	
	II-A	Data and Planning Support	\$ 13,600	\$ 54,400	\$ 68,000
44.24.00	II-A-1	Networks and Support Systems <ul style="list-style-type: none"> • Traffic Volume Counts • Vehicle Miles of Travel (VMT) • Street System Changes • Traffic Crashes • Transit System Data • Air Travel • Central Area Parking Inventory • Bike/Ped Facilities Inventory • Collection of Network Data • Capacity Deficiency Analysis • Mapping 	\$ 5,600	\$ 22,400	\$ 28,000
44.23.01	II-A-2	Travelers and Behaviour <ul style="list-style-type: none"> • Dwelling Unit, Population and Employment Changes • Collection of Base Year Data • Travel Surveys • Vehicle Occupancy Rates (Counts) • Travel Time Studies 	\$ 3,000	\$ 12,000	\$ 15,000
44.23.02	II-A-3	Transportation Modeling <ul style="list-style-type: none"> • Travel Model Update • Forecast of Data to Horizon Year • Forecast of Future Travel Patterns • Financial Planning 	\$ 5,000	\$ 20,000	\$ 25,000
	II-B	Planning Process	\$ 21,000	\$ 84,000	\$ 105,000
44.23.02	II-B-1	Targeted Planning <ul style="list-style-type: none"> • Air Quality Planning/Conformity Analysis • Alternative Fuels/Vehicles • Hazard Mitigation and Disaster Planning • Congestion Management Strategies • Freight Movement/Mobility Planning 	\$ 1,000	\$ 4,000	\$ 5,000
44.23.01	II-B-2	Regional Planning <ul style="list-style-type: none"> • Community Goals and Objectives • Highway Element of the CTP/MTP • Transit Element of the CTP/MTP • Bicycle and Pedestrian Element of CTP/MTP • Airport/Air Travel Element of CTP/MTP • Collector Street Element of CTP/MTP • Rail, Waterway, or other Mode of the CTP/MTP 	\$ 2,000	\$ 8,000	\$ 10,000
44.27.00	II-B-3	Special Studies	\$ -	\$ -	\$ -
		BGMPO Highway Safety Plan	\$ 15,000	\$ 60,000	\$ 75,000
		US 70 West Multimodal Corridor Study	\$ 3,000	\$ 12,000	\$ 15,000
	III-A	Planning Work Program	\$ 2,500	\$ 10,000	\$ 12,500
44.21.00	III-A-1	Planning Work Program	\$ 1,000	\$ 4,000	\$ 5,000
44.24.00	III-A-2	Metrics and Performance Measures	\$ 1,500	\$ 6,000	\$ 7,500
	III-B	Transp. Improvement Plan	\$ 8,000	\$ 32,000	\$ 40,000
44.25.00	III-B-1	Prioritization	\$ 5,000	\$ 20,000	\$ 25,000
44.25.00	III-B-2	Metropolitan TIP	\$ 2,000	\$ 8,000	\$ 10,000
44.25.00	III-B-3	Merger/Project Development	\$ 1,000	\$ 4,000	\$ 5,000
	III-C	Cvl Rgts. Cmp./Otr .Reg. Reqs.	\$ 2,000	\$ 8,000	\$ 10,000
44.27.00	III-C-1	Title VI Compliance	\$ 500	\$ 2,000	\$ 2,500
44.27.00	III-C-2	Environmental Justice	\$ 500	\$ 2,000	\$ 2,500
44.27.00	III-C-3	Minority Business Enterprise Planning	\$ 500	\$ 2,000	\$ 2,500
44.27.00	III-C-4	Planning for the Elderly	\$ -	\$ -	\$ -
44.27.00	III-C-5	Safety/Drug Control Planning	\$ -	\$ -	\$ -
44.27.00	III-C-6	Public Involvement	\$ 500	\$ 2,000	\$ 2,500
44.27.00	III-C-7	Private Sector Participation	\$ -	\$ -	\$ -
44.27.00	III-D	Statewide and Extra-Regional Planning	\$ 2,000	\$ 8,000	\$ 10,000
44.27.00	III-E	Management Ops, Program Support Admin	\$ 16,274	\$ 65,093	\$ 81,367
		TOTALS	\$ 16,274	\$ 261,493	\$ 326,867

Disadvantaged Business Enterprise Opportunities

Name of MPO: Burlington - Graham Metropolitan Planning Organization

Person Completing Form: Wannetta Mallette

Telephone Number: (336) 513-5418

Prospectus Task Code	Prospectus Description	Name of Agency Contracting Out	Type of Contracting Opportunity (Consultant, etc.)	Federal funds to be Contracted Out	Total Funds to be Contracted Out
45, 141,260, 261	US 70 West Multitmodal Corridor Study	TBD	Consultant	\$15,000	\$150,000
45, 141,260, 261,458,459,497,462	BGMPO Highway Safety Plan	TBD	Consultant	\$60,000	\$75,000

BURLINGTON GRAHAM

METROPOLITAN PLANNING ORGANIZATION

FY 2022 Draft Unified Planning Work Program
January 19, 2021



Agenda

- Overview
- Funding Sources
- FY 21 Accomplishments
- FY 22 Proposed Work Tasks and Budget
- Submission Schedule
- Questions

UPWP Overview

- The Unified Planning Work Program (UPWP) is the MPO's federally required annual work program.
- The UPWP identifies MPO staff work tasks conducted within the fiscal year (July 1, 2021 – June 30, 2022).
- The UPWP affirms the MPO will conduct its activities in a continuing, cooperative and comprehensive (3-C) manner.

UPWP Funding Sources

- UPWP funding consists of federal funds (Federal Highway Administration (FHWA) and Federal Transit Administration (FTA)) and local match contribution(s).
- Federal funding is allocated to the states. State funds are sub-allocated to MPOs by a distribution allocation based on the urbanized area population and planning needs identified in the work program.
- FHWA provides 80% of the funding for non-transit activities. FTA (5303 and 5307) provides 90 - 80% of funding for transit related activities.

FY 2021 UPWP Accomplishments

- ✓ Adoption of 2045 regional travel demand model
- ✓ Adoption of 2045 MTP
- ✓ Public Involvement Plan update
- ✓ Submission of P6.0 projects and coordination with NCDOT staff and stakeholders regarding P6.0 Express Feasibility Design Projects
- ✓ Expanded staff to include GIS/Transportation Planner
- ✓ Hosted CommunityViz Workshop
- ✓ Completion of two Special Studies
- ✓ Implementation of 3-C planning processes

And more...

FY 2022 UPWP Proposed Activities

- Assist the Model Custodian with needed travel demand model updates and development of a Triad Household Travel Survey
- Implement a Highway Safety Program
- Develop CommunityViz regional growth strategies and scenarios
- Integrate GIS capabilities into the metropolitan planning process
- Develop two Special Studies – US 70 West Corridor Plan and MPO Highway Safety Plan
- Continued work activities associated with P6.0/2022-2031 TIP Development
- Host meetings with transit agencies and NCDOT – PTD; Sponsor MPO workshops and training sessions; coordinate with regional stakeholders
- Routine 3-C planning, MTP and UPWP updates
- And more....

FY 2022 Draft UPWP PL Budget

Funding Summary (July 1, 2021 – June 30, 2022)

PL Funds				Transit Funds*			
Task Description	FHWA (80%)	City of Burlington/ Local Match (20%)	Total	FTA (80%)	NCDOT – PTD (10%)	City of Burlington/ Local Match (10/20%)	Total
Data and Planning	\$54,400	\$13,600	\$68,000	5303	\$43,184	\$5,398	\$53,980
Planning Process	\$84,000	\$21,000	\$105,000	5307	\$120,000	\$30,000	\$150,000
Work Program	\$10,000	\$2,500	\$12,500				
TIP	\$32,000	\$8,000	\$40,000	*Anticipated based on FY21 allocations			
Reg. Compliance	\$8,000	\$2,000	\$10,000				
State and Regional Planning	\$8,000	\$2,000	\$10,000				
Administrative Support	\$65,093	\$16,274	\$81,367				
Total	\$261,493	\$65,374	\$326,867				
FY 21 PL Fund Allocation	\$213,179						
% Increase in Funding	23%						

FY 2022 UPWP SUBMISSION SCHEDULE

Dates	Activity
January 19, 2021	Draft UPWP release for public comments
January 22 – February 23, 2020	Public review period
February 26, 2021	Deadline to submit Draft UPWP to NCDOT-TPD/PTD for review
March 16, 2021	Public hearing and TCC and TAC approval of FY 22 UPWP and certification of planning process
March 15, 2021	Deadline for Final UPWP submitted to NCDOT-TPD/PTD (Extended to May 31, 2021 due to ongoing Covid pandemic.

Staff Recommendation

Recommend TAC release the FY 2022 draft UPWP for 30-day public comment period



For More Information

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BURLINGTON-GRAHAM METROPOLITAN PLANNING ORGANIZATION

2020-2029 Transportation Improvement Program As Amended December 2020

- Village of Alamance
- City of Burlington
- Town of Elon
- Town of Gibsonville
- City of Graham
- Town of Green Level
- Town of Haw River
- City of Mebane
- Town of Whitsett
- Alamance County
- Guilford County
- Orange County



**RESOLUTION ADOPTING THE AMENDED 2020 – 2029 METROPOLITAN
TRANSPORTATION IMPROVEMENT PROGRAM AND AMENDED 2045
METROPOLITAN TRANSPORTATION PLAN FOR THE BURLINGTON - GRAHAM
METROPOLITAN PLANNING ORGANIZATION**

A motion was made by TAC member _____ and seconded by _____ for adoption of the resolution below, and upon being put to a vote was duly adopted on this ____ day of _____, 2021.

WHEREAS, the provisions of 23 CFR Part 450 requires Metropolitan Planning Organizations (MPOs) to develop a multimodal, financially constrained Metropolitan Transportation Plan (MTP) with at least a twenty year planning horizon and,

WHEREAS, the Transportation Advisory Committee (TAC) of the Burlington - Graham Metropolitan Planning Organization (BGMPO) is the MPO for the Burlington - Graham metropolitan planning area; and,

WHEREAS, through the conduct of a continuing, comprehensive and coordinated transportation planning process in conformance with applicable federal and state requirements, the BGMPO developed the latest MTP with a 2045 horizon year; and,

WHEREAS, the BGMPO, in cooperation with the North Carolina Department of Transportation and with operators of publicly owned transit services, rail operators, the aviation authority and the bicycle and pedestrian community, adhered to the metropolitan transportation planning process in the development of the BGMPO 2045 MTP; and,

WHEREAS, the 2045 MTP was developed through a strategic, proactive, comprehensive public outreach and involvement program and local, regional and federal interagency coordination and involvement; and,

WHEREAS, the 2045 MTP contains an integrated set of strategies and investments to maintain, manage and improve the transportation system in the planning region through the year 2045 and calls for development of an integrated intermodal transportation system that facilitates the based reasonable available funding provisions; and,

WHEREAS, the 2045 MTP integrates a Congestion Management Process identifying the most serious congestion problems and evaluating and incorporating, as appropriate, all reasonably available actions to reduce congestion, such as travel demand management and operational management strategies for all corridors with any proposed capacity increase; and,

WHEREAS, the 2045 MTP meets federal air quality standards and is in attainment status for these standards; and,

WHEREAS, the 2045 MTP includes, to the maximum extent practicable, a discussion of the performance measures and targets used in assessing the performance of the transportation system (Ref: 23 CFR 450.324) (f) (3)); and subsequent updates evaluating the condition and performance of the transportation system with respect to the performance targets described in 23 CFR §450.306(d); and,

WHEREAS, the 2045 MTP includes a financial plan that demonstrates how the adopted transportation plan can be implemented; and,

WHEREAS, the BGMPO shall review and update the 2045 MTP at least every 5 years in attainment areas to confirm the transportation plan's validity and consistency with current and forecasted

transportation and land use conditions and trends and to extend the forecast period to at least a 20-year planning horizon; and,

WHEREAS, the projects listed in the FY 2020 – 2029 MTIP as amended are included in the State Transportation Improvement Program and balanced against anticipated revenues; and

WHEREAS, the BGMPO 2020 – 2024 MTIP as amended is a direct subset of the 2045 MTP; and,

WHEREAS, the public has had the opportunity to review and comment on the Amended 2020 – 2024 MTIP through public meetings and document sharing; and

NOW, THEREFORE, BE IT RESOLVED, that the Burlington - Graham Metropolitan Planning Organization Transportation Advisory Board hereby approves the amended 2020 – 2024 Metropolitan Transportation Improvement Program and 2045 Metropolitan Transportation Plan.

CERTIFICATE: The undersigned certifies that the foregoing is a true and correct copy of a resolution adopted by the voting members of the TAC on _____, 2021.

Chair

Transportation Advisory Committee

STATE of: North Carolina

COUNTY of Alamance

I, _____, Notary Public of _____ County, North Carolina do hereby certify that _____ personally appeared before me on the ____ day of _____ 2021 to affix his signature to the foregoing document.

Notary Public

My Commission expires: _____

Burlington – Graham Metropolitan Planning Organization (BGMPO)

The Burlington-Graham area was designated an “Urbanized Area” by the U.S. Bureau of Census in 1974. As a result of this designation, the Burlington-Alamance area formed the Burlington Graham Metropolitan Planning Organization (BGMPO) in 1975. MPOs represent areas greater than 50,000 in population, and North Carolina has 19 MPOs throughout the state. With this new designation came the responsibility of adhering to federal continuing planning requirements. Furthermore, a Memorandum of Understanding (MOU) was executed between the Cities of Burlington, Graham, and Mebane; the Towns of Elon, Gibsonville, Whitsett, Green Level and Haw River; the Village of Alamance; Guilford County, Orange County and Alamance County; and the North Carolina Department of Transportation (NCDOT) in 2012. The memorandum delineated responsibilities in maintaining and continuing planning process and established a Technical Coordinating Committee (TCC) with the responsibility for general review, guidance, and coordination of the continuing planning process. A Transportation Advisory Committee (TAC), comprised of representatives of the elected policy boards in the urban area, was also established to assure coordination between the elected officials, policy boards and the transportation planning process.

2020-2029 State Transportation Improvement Program

The N.C. Board of Transportation adopted the 2020-2029 State Transportation Improvement Program (STIP), December 2020. The STIP identifies transportation projects that will receive funding developed under the 2013 Strategic Transportation Investments (STI) law.

Work on the 2020-2029 State Transportation Improvement Program began in April 2018, when the N.C. Department of Transportation released data for over 2,100 projects for highway and non-highway modes (aviation, rail, bicycle and pedestrian, ferry and public transportation) across North Carolina. Projects scheduled in the first six years of the plan are considered committed and are not re-evaluated when a new plan is developed. Projects in the final four years of each plan are prioritized again based on technical data, as well as input from local officials and residents. These projects were scored through the data-driven scoring approach called Strategic Prioritization. Division engineers, along with metropolitan and rural planning organizations, collected public input and ranked potential projects, as required by the STI.

After the release of the Draft STIP in January 2019, NCDOT hosted regional information sessions in the spring to gather public input on the process that produced the Draft STIP. Feedback was also collected online. In August 2019, NCDOT released the final draft of the 2020-2029 STIP, which included both new projects and schedule adjustments. More than 1,700 projects are included in the N.C. Department of Transportation’s 2020-2029 State Transportation Improvement Plan, or STIP; 1,319 highway projects, 86 aviation, 234 bicycle and pedestrian, 6 ferry, 23 public transit, and 50 rail projects were funded at the statewide, regional and division levels. NCDOT then accepted further public comment, before the NC Board of Transportation and the Federal Highway Administration approved the draft STIP in September 2019. The September 2019 STIP pended federal approval and received final approval, March 2020. In light of the COVID-19 pandemic and resulting impact on revenues, the passage of House Bill 77 into law, and project cost increases occurring over the past year, NCDOT conducted a reprogramming exercise to ensure the STIP remains fiscally constrained, August 2020.

2020 – 2029 Metropolitan Transportation Improvement Program

The Metropolitan Transportation Improvement Program (TIP) is based on federal requirements established and documented in the Code of Federal Regulations, Title 23. The primary goal of the federal requirements is to ensure that tax dollars are spent on useful, meaningful projects that are supported by the residents/taxpayers of the Burlington- Graham Urban Area (BGUA). The TIP is a subset of the STIP and lists regional transportation project schedules and estimated project costs. The MPO's adoption of the TIP typically follows the NCDOT Board of Transportation adoption of the STIP.

The BGMPO is responsible for maintaining a long-range Metropolitan Transportation Plan (MTP) for the MPO planning area. The MTP outlines the BGMPO's transportation-related goals and objectives and addresses transportation related issues and impacts over a minimum 20-year horizon. The TIP is the "short-range" component of the BGMPO's 2045 Metropolitan Transportation Plan (MTP). As NCDOT has demonstrated fiscal constraint in the 2020-2029 STIP adopted on December 4, 2020, the TIP is a subset of the STIP and by extension demonstrates fiscal constraint. The development of the TIP is a continuous process and is updated every two to three years to provide a platform for sharing updated information and to ensure compliance with federal regulations and established air quality requirements. Development of the TIP is conducted in accordance with the BGMPO Public Involvement Plan and adoption and associated actions are taken during an advertised public meeting with opportunity for public comment.

**PROPOSED AMENDMENTS AND MODIFICATIONS
TO TRANSPORTATION PROJECTS IN THE
BURLINGTON - GRAHAM MPO (BGMP) TRANSPORTATION IMPROVEMENT PROGRAM (TIP)**

COST AND SCHEDULES ARE PRELIMINARY AND SUBJECT TO SIGNIFICANT CHANGE AS MORE INFORMATION BECOMES AVAILABLE

ID Number	Facility	City/County	Location	Project Description	TIP As Amended December 2020				
					Committed (FY 2020-2024)		Developmental STIP (FY 2025-2029)		Cost/Funding
					PE/ROW	Construction	PE/ROW	Construction	
INTERSTATE									
I-5954	I-40/85	Alamance/Orange	East of N 54 In Graham to West of Buckhorn Road	Pavement Rehabilitation	Under Construction				\$ 11,179,000
I-5836	I-40/85	Graham	NC 49 to NC 54	Pavement Rehabilitation	Under Construction				\$ 100,000
I-5956	I-40/85	Alamance/Guilford	East of Rock Creek Dairy Road to West of University	Pavement Rehabilitation	Under Construction				\$ 4,702,000
I-6009	I-40/85	Burlington	Huffman Mill Road	Construct left turn lane and improve Garden Road Operations			FY 2028	FY 2029	\$ 1,597,000
I-5711	I-40/85	Mebane	Mebane Oaks Road	Interchange Improvements		FY 2021/2023			\$ 19,919,000
I-5309	I-40/85	Alamance	Guilford County Line to East of NC 49	Pavement Rehabilitation	Under Construction				\$ 14,411,000
I-6059	I-40/85	Mebane	Trollingwood-Hawfields Road	Interchange Improvements			FY 2028	Post STIP	\$ 12,400,000
I-5958	I-40/85	Mebane	Buckhorn Road to Orange Grove Road	Pavement Rehabilitation			FY 2027	FY 2028	\$ 8,840,000
HIGHWAY									
R-5787	Various	Division 7	Division wide	ADA Intersection Upgrades	In Progress				\$ 6,189,000
U-3110 A/B	New Route	Elon	US 70 to Westbrook	Construct Multilane Facility Part on New Location	Complete				\$ 30,477,000
U-6011	US 70	Burlington	Huffman Mill Road	Intersection Improvements	FY 2023	FY 2025			\$ 4,278,000
U-5752	US 70	Burlington	St. Marks Church Road	Intersection Improvements	Under Construction				\$ 4,278,000
U-6009	US 70	Burlington	Tarleton Avenue to Fifth Street	Widen and Construct Center Turn Lane			FY 2027	Post STIP	\$ 11,969,000
U-6183	NC 49	Haw River	Wilkins Road and Bason Road	Intersection Improvements			FY 2027	Post STIP	\$ 2,700,000
U-6115A	NC 54	Graham	Riverbend Road and Johnson Street	Intersection Improvements			FY 2028	Post STIP	\$ 2,700,000
U-6115B	NC 54	Graham	I-40/85 Interchange	Upgrade Ramp Intersections			FY 2028	Post STIP	\$ 6,300,000
U-6115C	NC 54	Graham	Woody Drive	Intersection Improvements			FY 2028	Post STIP	\$ 2,900,000
U-6115D	NC 54	Graham	Woody Drive and Whittemore Road	Upgrade Pipe Culverts			FY 2028	Post STIP	\$ 1,900,000
U-6184	NC 54	Burlington	South O'Neal Street	Intersection Improvements			FY 2027	Post STIP	\$ 14,600,000
U-6010	US 70	Burlington	University Drive	Intersection Improvements and Widening of US 70		FY 2022			\$ 8,400,000
U-5844	NC 62	Burlington	Ramada Road to Church Street	Widen to Multilanes	FY 2023	FY 2024		FY 2025	\$ 11,400,000
U-6182	NC 87	Burlington	Flora Avenue	New Traffic Signal/Turn Lanes			FY 2027	Post STIP	\$ 1,300,000
U-3109	NC 119	Mebane	I-85 to North to Mrs. White Road	Relocation	Under Construction				\$ 131,561,000
U-6013	NC 119	Mebane	Trollingwood-Hawfields Road to Lowes Boulevard	Widen to Multilanes	FY 2022	FY 2024		FY 2025	\$ 9,100,000
U-6214	E. Haggard	Elon	W. Webb at University Drive	Improve Intersection			FY 2027	Post STIP	\$ 13,000,000
U-5538	New Route	Mebane	Trollingwood-Hawfields Road to Industrial Site	Construct Two-Lane Road	Under Construction				\$ 3,740,000
U-6114	NC 62	Burlington	Hatchery Road at Bonnie Lane	New Traffic Signal/Turn Lanes	FY 2025			FY 2027	\$ 15,210,000
U-6014	Graham-Hopedale Road	Burlington	W. Hanover Road to Morningside Drive	Widen to Multilanes with Bike/Ped Lanes	FY 2022	FY 2024		FY 2026	\$ 15,900,000
U-6132	N. Main Street	Graham	W. Parker Street	Intersection Improvements			FY 2028	Post STIP	\$ 3,000,000
U-6131	NC 54	Burlington	Maple Avenue	Intersection Improvements	FY 2025			FY 2026	\$ 1,610,000
U-6017	NC 54	Graham	East Elm Street	Intersection Improvements	FY 2021	FY 2022			\$ 1,696,000
U-5843	US 70	Burlington	Graham-Hopedale Road	Intersection Improvements	Under Construction				\$ 7,160,000
SIGNAL SYSTEM									
U-6015	Burlington	Burlington/Graham	Upgrade	Upgrade Signal System	Under Construction				\$ 16,439,000
BRIDGE REPLACEMENT									
B-4960	Judge Adams Road	Guilford	Little Alamance Creek	Bridge Replacement	Under Construction				\$ 3,514,000
B-6052	Trollingwood Road	Alamance	NRR/Norfolk Southern Railroad	Bridge Replacement	FY 2024			FY 2026	\$ 3,000,000
B-5347	Pond Road	Alamance	Alamance Creek	Bridge Replacement	Under Construction				\$ 1,560,000

ID Number	Facility	City/County	Location	Project Description	TIP As Amended December 2020				Cost/Funding
					Committed		Developmental STIP		
					PE/ROW	Construction	PE/ROW	Construction	
W-5207	Various	Division 7	Division wide	Safety improvements at various locations in Division 7	Under Construction			\$ 5,636,000	
W-5707	Various	Division 7	Division wide	Safety improvements at various locations in Division 7	In Progress			\$ 4,757,000	
W-5807B	Various	Division 7	Division wide	Safety improvements at various locations in Division 7	FY 2022	FY 2023		\$ 76,000	
R-5787	Various	Division 7	Division wide	Intersection Upgrades for ADA Compliance	In Progress			\$ 3,089,000	
CONGESTION MANAGEMENT									
C-5602	Various	CMAQ		Air Quality and Congestion Improvements	FY 2020			\$ 57,000	
MITIGATION PROJECTS									
EE-4907	Various	Division 7	Division wide	Project Mitigation	In Progress			\$ 18,169,000	
AVIATION									
AV-5851	Burlington/Alamance Airport	Burlington	Runway	Construct Paved Overrun/Safety Improvements		FY 2022		\$ 2,080,000	
AV-5737	Burlington/Alamance Airport	Burlington	Runway 24 Approach Improvements	Easements and Construction Clearance	FY 2021			\$ 1,363,000	
BICYCLE AND PEDESTRIAN									
EB-5879	US 70	Burlington	Graham-Hopedale Road to Sellars Mill Road	Construct Sidewalk	FY 2021	FY 2021		\$ 94,000	
EB-5885	US 70	Burlington	Beaumont Avenue to Graham-Hopedale Road	Construct Sidewalk		FY 2020		\$ 120,000	
EB-5882	Graham-Hopedale Road	Burlington	W. Hanover Road to N. Mebane Street	Construct Sidewalk	FY 2020	FY 2021		\$ 137,000	
EB-5887	NC 49/ NC 54	Graham	W. Pine Street to N. Marshall Street	Construct Sidewalk	FY 2021	FY 2022		\$ 175,000	
EB-5884	NC 87	Graham	Ivey Road to E. Gilbreath Street	Construct Sidewalk	Project Removed Per Graham Request			\$ 539,000	
EB-5988	Lee Avenue	Elon	W. Lebanon Avenue to W. Haggard Avenue	Construct Sidewalk	FY 2024/25		FY 2026	\$ 307,000	
TRANSIT									
TG-6187	Statewide			Formula Funding		FY 2020/22		\$ 3,751,000	
TG-6811B	ACTA	Alamance		Funding for Preventive Maintenance		FY 2020		\$ 46,000	
TA-6733	LinkTransit	Alamance		Capital Assistance		FY 2020		\$ 1,235,000	
TD-6322	LinkTransit	Alamance		Capital Assistance		FY2020		\$ 60,000	
TG-6812A	LinkTransit	Alamance		ADA Services		FY 2020		\$ 211,000	
TO-6170	LinkTransit	Alamance		Operating Assistance		FY 2020		\$ 3,394,000	
TP-5162	LinkTransit	Alamance		Planning for Facility Feasibility Study		FY 2020		\$ 95,000	
TP-5161	LinkTransit	Alamance		Planning for Fixed Route Service Expansion		FY 2020		\$ 5,000	
TO-5220	BGMPO	Orange		Operating Assistance		FY 2020		\$ 282,000	
TO-6151	LinkTransit	Guilford		Operating Assistance		FY 2020/21		\$ 4,032,000	
TO-6142	Statewide	Statewide		Formula Funding		FY 2020/22		\$ 18,778,000	
TO-5214	ACTA	Alamance		Operating Assistance		FY 2020/27		\$ 10,060,000	
TK-6103	ACTA	Alamance		Administration		FY 2020/23		\$ 4,882,000	
TG-6137B	PART	Alamance		Capital		FY 2020/25		\$ 1,000,000	
TO-5136	PART	Alamance/Guilford		Operating Assistance		FY 2020/23		\$ 11,817,000	
TO-5134	PART	Alamance		Operating Assistance		FY 2020/25		\$ 3,806,000	
PASSENGER RAIL									
P-4405	Various	Division 7		Private Crossings Safety		In Progress		\$ 10,291,000	
RC-2007	Various	Division 7		Traffic Separation Study		To Be Requested			
RX-2007	Various	Division 7		Highway-Rail Grade Crossing Safety Improvements		To Be Requested			
Y-5807	Various	Division 7		Traffic Separation Study		To Be Requested			
Z-5807	Various	Division 7		Highway-Rail Grade Crossing Safety Improvements		To Be Requested			
P-5719	Piedmont Corridor	Division 7		Purchase and Refurbish Rail Cars		In Progress		\$ 45,277,000	
P-5205	Piedmont Corridor	Alamance	Graham to Haw River	Siding and Curve Realignment		Under Construction		\$ 11,605,000	
P-2918	Piedmont Corridor	Division 7	Train 74/75	Equipment and Capital Yard Maintenance		In Progress		\$ 174,422,000	

RESURFACING

2020							
WBS	Plan Year	Route Name	County	From Description	To Description	To Description	Length
N/A	2020	US 70	001-Alamance	SR 1928	SR 1301	SR 1301	8.40
N/A	2020	Friendship-Patterson Mill Rd.	001-Alamance	NC 62	SR 2321	SR 2321	4.88
N/A	2020	Hatchery Rd.	001-Alamance	SR 1154	NC 62	NC 62	0.98
N/A	2020	O'Neal-Rockwood Conn.	001-Alamance	US 70	SR 1323	SR 1323	1.30
N/A	2020	Pond Rd.	001-Alamance	SR 1149	END MAINT	END MAINT	1.70
N/A	2020	Whitsell Dr.	001-Alamance	SR 1158	END MAINT	END MAINT	0.13
N/A	2020	Inge Rd.	001-Alamance	SR 1216	SR 1166	SR 1166	0.14
N/A	2020	Altamahaw Church St.	001-Alamance	SR 1571	CUL-DE-SAC	CUL-DE-SAC	1.31
N/A	2020	Alfred Rd.	001-Alamance	SR 2159	SR 2158	SR 2158	0.96
N/A	2020	Cedar Cliff Rd.	001-Alamance	SR 2116	NC 87	NC 87	1.67
N/A	2020	Harden St. (NC 54)	001-Alamance	US 70 (W)	NC 49	NC 49	2.17
2021							
WBS	Plan Year	Route Name	County	From Description	To Description	To Description	Length
N/A	2021.00	NC 62	001-Alamance	GCL	I-40	I-40	7.05
N/A	2021.00	Mt. Willen Rd.	001-Alamance	SR 2135	SR 2147	SR 2147	4.60
N/A	2021.00	Anthony Rd.	001-Alamance	NC 62	SR 1148	SR 1148	0.29
N/A	2021.00	Anthony Rd.	001-Alamance	NC 49	SR 1147	SR 1147	3.05
N/A	2021.00	Graham Hopedale Rd.	001-Alamance	PVMT JOINT	NC 54	NC 54	2.84
N/A	2021.00	Parker St.	001-Alamance	NC 49	SR 1716	SR 1716	1.00
N/A	2021.00	Lindley Mill Rd.	001-Alamance	CCL	SR 1005	SR 1005	4.31
N/A	2021.00	Timber Ridge Lake Rd.	001-Alamance	NC 49	GCL	GCL	2.50
N/A	2021.00	Flora Ave.	001-Alamance	NC 87	SR 1530	SR 1530	1.07
N/A	2021.00	Danieley Water Wheel Rd.	001-Alamance	SR 1594	SR 1593	SR 1593	1.27
N/A	2021.00	Hanover Rd.	001-Alamance	SR 1801	SR 1716	SR 1716	1.78
N/A	2021.00	Stone St.	001-Alamance	NC 49	SR 1936	SR 1936	0.48
N/A	2021.00	Stone St. Extension	001-Alamance	SR 1935	SR 1940	SR 1940	2.26
N/A	2021.00	Center St.	001-Alamance	NC 119	OCL	OCL	0.37
N/A	2021.00	Holt St.	001-Alamance	US 70	SR 1962	SR 1962	1.63
N/A	2021.00	Eighth St.	001-Alamance	Sr 1961	SR 1007	SR 1007	0.60
N/A	2021.00	Bakatsias Lane	001-Alamance	SR 1928	END MAINT	END MAINT	0.52
N/A	2021.00	Porter Ave.	001-Alamance	SR 2185	END MAINT.	END MAINT.	0.08
N/A	2021.00	Silk Hope Liberty Rd.	001-Alamance	RCL	CCL	CCL	0.30
N/A	2021.00	Old Switchboard Rd.	001-Alamance	SR 1003	CCL	CCL	2.33
N/A	2021.00	Holman Mill Rd.	001-Alamance	SR 1004	SR 1005	SR 1005	0.77
N/A	2021.00	Longpine Rd.	001-Alamance	SR 1146	END MAINT.	END MAINT.	0.40
N/A	2021.00	South Mebane St.	001-Alamance	End of Divided	NC 87	NC 87	1.36
N/A	2021.00	Haggard Ave.	001-Alamance	SR 1301	NC 100	NC 100	0.73
N/A	2021.00	Haggard Ave.	001-Alamance	NC 87	SR 1323	SR 1323	1.30

NCBOT AMENDED STIP DECEMBER - 2020

HIGHWAY PROGRAM

DIVISION 7

COMMITTED / NON

TOTAL PRIOR PROJ YEARS COST COST (THOU) (THOU) FUNDS

TYPE OF WORK / ESTIMATED COST IN THOUSANDS / PROJECT BREAKS

STATE TRANSPORTATION IMPROVEMENT PROGRAM

DEVELOPMENTAL PROGRAM

UNFUNDED

FUTURE YEARS

COUNTY	ROUTE/CITY	ID NUMBER	LOCATION / DESCRIPTION	LENGTH	TOTAL PROJ COST (THOU)	PRIOR YEARS COST (THOU)	FUNDS	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	UNFUNDED FUTURE YEARS
INTERSTATE PROJECTS																		
<input type="checkbox"/>	ALAMANCE GUILFORD	I-40 / I-85	I-5956 SW	EAST OF SR 3056 (ROCK CREEK DAIRY ROAD) IN GUILFORD COUNTY TO WEST OF SR 1226 (UNIVERSITY DRIVE) IN ALAMANCE COUNTY. PAVEMENT REHABILITATION.	5.2	4702	4702											
UNDER CONSTRUCTION																		
<input checked="" type="checkbox"/>	ALAMANCE	I-40 / I-85	I-5711 SW	SR 1007 (MEBANE-OAKS ROAD) IN MEBANE. INTERCHANGE IMPROVEMENTS.		19919	5476											
Pending FHWA Approval																		
RIGHT-OF-WAY IN PROGRESS; GARVEE BOND FUNDING: \$2.17 MILLION FOR CONSTRUCTION - PAYBACK 2021-2035																		
<input type="checkbox"/>	ALAMANCE	I-40 / I-85	I-5309 SW	EAST OF GUILFORD COUNTY LINE TO EAST OF NC 49. PAVEMENT REHABILITATION.	5.8	14411	14411											
UNDER CONSTRUCTION - PROJECT COST INCLUDES I-5836 CONSTRUCTION																		
<input type="checkbox"/>	ALAMANCE	I-40 / I-85	I-5836 SW	0.2 MILE EAST OF NC 49 TO 0.2 MILE EAST OF NC 54 IN GRAHAM. PAVEMENT REHABILITATION.	2.7	100	100											
UNDER CONSTRUCTION - CONSTRUCTION FUNDED UNDER I-5309																		
<input type="checkbox"/>	ALAMANCE ORANGE	I-40 / I-85	I-5954 SW	EAST OF NC 54 IN GRAHAM IN ALAMANCE COUNTY TO WEST OF SR 1114 (BUCKHORN ROAD) IN ORANGE COUNTY. PAVEMENT REHABILITATION.	8.4	11179	11179											
UNDER CONSTRUCTION																		
<input checked="" type="checkbox"/>	ALAMANCE	I-40 / I-85	I-6009 SW	SR 1158 (HUFFMAN MILL ROAD) INTERCHANGE. CONSTRUCT ADDITIONAL LEFT TURN LANE ON I-40 WESTBOUND RAMP AND IMPROVE OPERATIONS AT SR 1308 (GARDEN ROAD) INTERSECTION.	0.5	1597	10											
RURAL PROJECTS																		
<input type="checkbox"/>	ALAMANCE CASWELL GUILFORD ORANGE ROCKINGHAM	VARIOUS	R-5787 DIV	DIVISION 7 PROGRAM TO UPGRADE INTERSECTIONS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) USING TRANSPORTATION ALTERNATIVES (TA) FUNDS.		6189	5689											
IN PROGRESS; "S" FUNDS REFLECT STATE HIGHWAY FUNDS																		
URBAN PROJECTS																		
<input type="checkbox"/>	ALAMANCE	I-40 / I-85	I-6059 DIV	SR 1981 (TROLLINGWOOD-HAWFIELDS ROAD) IN MEBANE. UPGRADE INTERCHANGE.		12400												
<input checked="" type="checkbox"/>	ALAMANCE	US 70 (SOUTH CHURCH STREET)	U-6011 REG	SR 1158 (HUFFMAN MILL ROAD) IN BURLINGTON. INTERSECTION IMPROVEMENTS.		3150	450											
<input type="checkbox"/>	ALAMANCE	NC 54 (CHAPEL HILL ROAD)	U-6184 DIV	SR 1445 (SOUTH O'NEAL STREET) IN BURLINGTON. RECONFIGURE INTERSECTION TO MAKE O'NEAL STREET THE THROUGH MOVEMENT WITH NC 54 EAST OF THE INTERSECTION.		14600												

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COST AND SCHEDULES ARE PRELIMINARY AND SUBJECT TO SIGNIFICANT CHANGE AS MORE INFORMATION BECOMES AVAILABLE

NCBOT AMENDED STIP DECEMBER - 2020

HIGHWAY PROGRAM

DIVISION COMMITTED / NON	7	COUNTY	ROUTE/CITY	ID NUMBER	LOCATION / DESCRIPTION	LENGTH	TOTAL PROJ COST (THOU)	PRIOR YEARS COST (THOU)	TYPE OF WORK / ESTIMATED COST IN THOUSANDS / PROJECT BREAKS										UNFUNDED FUTURE YEARS		
									STATE TRANSPORTATION IMPROVEMENT PROGRAM					DEVELOPMENTAL PROGRAM							
									FUNDS	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029		
INTERSTATE PROJECTS																					
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	I-40	I-5980	SR 1860 (MACY GROVE ROAD). CONVERT GRADE SEPARATION TO INTERCHANGE.		14300	1000	T								R	1300	R	1300	
				REG					T							U	250	U	250		
									T											C	10200
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	I-40	I-5734	1.3 MILES EAST OF SR 1850 (SANDY RIDGE ROAD) TO 1.1 MILES EAST OF SR 1556 (GALLIMORE DAIRY ROAD) IN GREENSBORO. PAVEMENT REHABILITATION.	3	2120	2120													
UNDER CONSTRUCTION - PRIOR YEAR COST IS FOR BRIDGE PRESERVATION; PAVEMENT REHABILITATION COST INCLUDED IN I-5762																					
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	I-40	I-5762	FORSYTH COUNTY LINE TO 1.3 MILES EAST OF SR 1850 (SANDY RIDGE ROAD). PAVEMENT REHABILITATION.	4	9760	9760													
UNDER CONSTRUCTION - INCLUDES CONSTRUCTION COST FOR I-5734																					
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	I-40	I-5811	WEST OF I-73 / US 421 TO HOLDEN ROAD IN GREENSBORO. PAVEMENT REHABILITATION.	5.2	2225	2225													
UNDER CONSTRUCTION																					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	GUILFORD	I-40 / US 421	I-5712	SR 1850 (SANDY RIDGE ROAD) IN GREENSBORO. INTERCHANGE IMPROVEMENTS.		28036	400	NHP							R	3158				
				SW					NHP							U	126				
									NHP									C	4833	C	4833
																				C	4834
Pending FHWA Approval																					
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	I-40	I-5955	HOLDEN ROAD TO EAST OF SR 3037 / SR 4240 (EAST GATE CITY BOULEVARD) IN GREENSBORO. PAVEMENT REHABILITATION.		13005	150	NHPIM							C	6428	C	6427		
Pending FHWA Approval																					
COORDINATE WITH I-5965 AND B-5356																					
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	I-40 / BUSINESS 85 / I-85	I-5812	I-40 / BUSINESS 85, EAST OF SR 3037 / SR 4240 (EAST GATE CITY BOULEVARD) TO I-85; I-85 NORTH OF SR 3000 (MCCONNELL ROAD) TO I-40; I-40 / I-85, WEST OF SR 3048 (MOUNT HOPE CHURCH ROAD) TO EAST OF SR 3056 (ROCK CREEK DAIRY ROAD). PAVEMENT REHABILITATION.	7.2	9882	9882													
UNDER CONSTRUCTION																					
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	I-73	I-5852	I-85 TO SR 2085 (BRYAN BOULEVARD) IN GREENSBORO. PAVEMENT AND BRIDGE REHABILITATION.	10.7	20272	20272													
COMMITTED / NON <input type="checkbox"/> SW A I-85 TO I-40 - UNDER CONSTRUCTION																					
COMMITTED / NON <input type="checkbox"/> SW B I-40 TO SR 2085 (BRYAN BOULEVARD) - UNDER CONSTRUCTION																					
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	I-73 / US 220	I-5735	RANDOLPH COUNTY LINE TO I-85 / US 421 IN GREENSBORO. PAVEMENT REHABILITATION.	6.5	7165	151	NHPIM											C	7014
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD RANDOLPH	I-74 / US 311	I-5949	US 29 / US 70 / BUSINESS 85 IN GUILFORD COUNTY TO SR 1928 (CEDAR SQUARE ROAD) IN RANDOLPH COUNTY. PAVEMENT REHABILITATION.	7.1	6264	397	NHPIM									C	2934	C	2933
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	I-74 / US 311	I-5736	FORSYTH COUNTY LINE TO SR 1300 (GREEN ROAD) IN HIGH POINT. PAVEMENT REHABILITATION.	7.1	17293	17293													
UNDER CONSTRUCTION - AMOUNT INCLUDES I-5767 CONSTRUCTION																					
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	I-85 / US 29 / US 70	I-5853	1 MILE SOUTH OF SR 1129 (GROOMETOWN ROAD) TO 0.3 MILE NORTH OF SR 1129 (GROOMETOWN ROAD) IN GREENSBORO. PAVEMENT REHABILITATION.	2	6076	6076													
UNDER CONSTRUCTION																					

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NCBOT AMENDED STIP DECEMBER - 2020

HIGHWAY PROGRAM

DIVISION COMMITTED / NON	COUNTY	ROUTE/CITY	ID NUMBER	LOCATION / DESCRIPTION	LENGTH	TOTAL PROJ COST (THOU)	PRIOR YEARS COST (THOU)	TYPE OF WORK / ESTIMATED COST IN THOUSANDS / PROJECT BREAKS										UNFUNDED FUTURE YEARS	
								STATE TRANSPORTATION IMPROVEMENT PROGRAM					DEVELOPMENTAL PROGRAM						
								FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029		
INTERSTATE PROJECTS																			
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	I-85	I-5854 SW	NORTH OF I-73 / US 421 INTERCHANGE TO SR 3300 (SOUTH ELM-EUGENE STREET). PAVEMENT REHABILITATION.	3.3	8692	8692											
UNDER CONSTRUCTION																			
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	I-85	I-5855 SW	SR 3300 (SOUTH ELM-EUGENE STREET) TO 0.2 MILE NORTH OF SR 3039 (NELSON FARM ROAD) IN GREENSBORO. PAVEMENT REHABILITATION.	5.5	100	100											
UNDER CONSTRUCTION - CONSTRUCTION COST INCLUDED IN I-5790																			
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	I-85	I-5789 SW	SR 1113 (KIVETT DRIVE) TO 0.4 MILE NORTH OF I-85 BUSINESS IN HIGH POINT. PAVEMENT REHABILITATION.	2	17000	17000											
UNDER CONSTRUCTION - CONSTRUCTION COST INCLUDES I-5738 AND I-5821																			
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	I-85	I-5790 SW	0.2 MILE NORTH OF SR 3039 (NELSON FARM ROAD) TO 1.3 MILES NORTH OF SR 3029 (YOUNGS MILL ROAD) IN GREENSBORO. PAVEMENT REHABILITATION.	2.4	12012	12012											
UNDER CONSTRUCTION - AMOUNT INCLUDES I-5855 CONSTRUCTION																			
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	I-85	I-5821 SW	RANDOLPH COUNTY LINE TO SR 1113 (KIVETT DRIVE). PAVEMENT REHABILITATION.	4.5	100	100											
UNDER CONSTRUCTION - CONSTRUCTION COST INCLUDED UNDER I-5789																			
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	I-785 / I-840	I-5953 SW	I-85 TO US 70. PAVEMENT REHABILITATION.	2.9	2675	2675											
UNDER CONSTRUCTION																			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	GUILFORD	I-40 / BUSINESS 85 / US 29 / US 70 / US 220	I-5964 SW	ELM-EUGENE STREET IN GREENSBORO. INTERCHANGE IMPROVEMENTS.		750	250	NHP										
Pending FHWA Approval																			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	GUILFORD	I-40 / BUSINESS 85 / US 29 / US 70 / US 220	I-5965 SW	US 220 / SR 1398 (FREEMAN MILL ROAD) TO US 29 / US 70 / US 220 IN GREENSBORO. ADD LANES, IMPROVE SR 1007 (RANDLEMAN ROAD) AND ELM-EUGENE STREET INTERCHANGES, AND REPLACE NORFOLK-SOUTHERN RAILROAD BRIDGE OVERPASS EAST OF ELM-EUGENE STREET.	2.9	117329	1000	NHP										
COORDINATE WITH I-5955, I-5964, B-5356, AND B-5718																			
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	FUTURE I-73	I-5110 TRN	NC 68 TO GREENSBORO WESTERN LOOP. SIX-LANE FREEWAY ON NEW LOCATION.	3	152283	152283											
COMBINED WITH R-2413A AND R-2413B FOR DESIGN-BUILD LET - UNDER CONSTRUCTION																			
RURAL PROJECTS																			
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD ROCKINGHAM	US 29 (FUTURE I-785)	R-5889 REG	SR 2565 (HICONE ROAD) IN GREENSBORO TO US 158 / NC 14 IN REIDSVILLE. UPGRADE CORRIDOR TO INTERSTATE STANDARDS.	16	206311	10	T										
COST AND SCHEDULES ARE PRELIMINARY AND SUBJECT TO SIGNIFICANT CHANGE AS MORE INFORMATION BECOMES AVAILABLE																			

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NCBOT AMENDED STIP DECEMBER - 2020

HIGHWAY PROGRAM

DIVISION COMMITTED / NON	COUNTY	ROUTE/CITY	ID NUMBER	LOCATION / DESCRIPTION	LENGTH	TOTAL PROJ COST (THOU)	PRIOR YEARS COST (THOU)	TYPE OF WORK / ESTIMATED COST IN THOUSANDS / PROJECT BREAKS										UNFUNDED FUTURE YEARS
								STATE TRANSPORTATION IMPROVEMENT PROGRAM					DEVELOPMENTAL PROGRAM					
								FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	
CONGESTION MITIGATION PROJECTS																		
<input type="checkbox"/>	<input type="checkbox"/>	ORANGE	SR 1750 (NORTH ESTES DRIVE)	C-5179	NC 86 (MARTIN LUTHER KING, JR. BOULEVARD) TO CASWELL DRIVE IN CHAPEL HILL. CONSTRUCT FIVE FOOT SIDEWALKS AND FIVE FOOT BIKE LANES, NC 86 (MARTIN LUTHER KING, JR. BOULEVARD) TO ELLIOTT ROAD IN CHAPEL HILL. CONSTRUCT TEN FOOT MULTIUSE PATH.	3682	730	CMAQ C 2362 L 590										
				EX														
UNDER CONSTRUCTION BY TOWN OF CHAPEL HILL																		
<input type="checkbox"/>	<input type="checkbox"/>	DURHAM ORANGE WAKE	TRIANGLE J COUNCIL OF GOVERNMENTS	C-4924	TRIANGLE J COUNCIL OF GOVERNMENTS (COG). TRANSPORTATION DEMAND MANAGEMENT PROGRAM FOR ORGANIZATIONS IN TRIANGLE OZONE NON- ATTAINMENT AREA.	8400	8400											
				EX														
COMMITTED / NON <input type="checkbox"/> EX A TRANSPORTATION DEMAND MANAGEMENT PROGRAM FOR ORGANIZATIONS IN CAPITAL AREA MPO (CAMPO) - IN PROGRESS COMMITTED / NON <input type="checkbox"/> EX B TRANSPORTATION DEMAND MANAGEMENT PROGRAM FOR ORGANIZATIONS IN DURHAM-CHAPEL HILL-CARRBORO (DCHC) - IN PROGRESS																		
<input type="checkbox"/>	<input type="checkbox"/>	ORANGE	JONES CREEK GREENWAY	C-5181	CONSTRUCT A 100 FOOT BRIDGE AND 650 FOOT PAVED TRAIL IN CARRBORO TO FILL GAP BETWEEN THE UPPER BOLIN TRAIL AND TWIN CREEKS GREENWAY AND IMPLEMENT PROGRAM TO SUPPORT NON- VEHICLE TRIPS TO MORRIS GROVE ELEMENTARY SCHOOL.	766	100	CMAQ C 523 L 131 CMAQ I 10 L 2										
				EX														
<input type="checkbox"/>	<input type="checkbox"/>	ORANGE	RIVERWALK TRAIL	C-5184	RIVERWALK TRAIL, PHASE III IN HILLSBOROUGH. CONSTRUCT A PAVED OFF- ROAD TAIL ALONG ENO RIVER CONNECTING RIVER PARK, GOLD PARK AND THE OCCONEECHEE MOUNTAIN STATE NATURAL AREA, AND CONSTRUCT SIDEWALK TO PROVIDE PEDESTRIAN AND BICYCLE CONNECTIONS TO THE GREE	610	610											
				EX														
UNDER CONSTRUCTION BY TOWN OF HILLSBOROUGH																		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	FUTURE I-73 / US 220	I-5898	US 311 / NC 135 INTERCHANGE. REPLACE BRIDGE 780074 AND UPGRADE INTERCHANGE.	5045	937	T T T										
				REG														
RURAL PROJECTS																		
<input type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	NC 65 / NC 87	R-5766	WEST OF SR 2371 (OLD COUNTY HOME ROAD) IN WENTWORTH TO US 158 / US 29 BUSINESS (FREEWAY DRIVE) IN REIDSVILLE. UPGRADE ROADWAY.	10587	1200	T T T T T T T T										
COMMITTED / NON <input checked="" type="checkbox"/> DIV A WEST OF SR 2371 (OLD COUNTY HOME ROAD) IN WENTWORTH TO SR 1001 (SANDY CROSS ROAD) / SR 1998 (WENTWORTH STREET) COMMITTED / NON <input checked="" type="checkbox"/> DIV B SR 1001 (SANDY CROSS ROAD) / SR 1998 (WENTWORTH STREET) TO SR 2413 (VANCE STREET EXTENSION) COMMITTED / NON <input type="checkbox"/> DIV C SR 2413 (VANCE STREET EXTENSION) TO US 158 / US 29 BUSINESS IN REIDSVILLE																		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	NC 87	R-5704	SR 1998 (WENTWORTH STREET) / SR 1001 (SANDY CROSS ROAD). INTERSECTION REALIGNMENT.	2884	2884											
				REG														
UNDER CONSTRUCTION																		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	US 311 / NC 14 (SOUTH VAN BUREN ROAD)	U-5893	SR 2066 (KINGS HIGHWAY) IN EDEN. CONVERT AT-GRADE INTERSECTION TO INTERCHANGE.	8755	645	T T T										
				REG														

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HIGHWAY PROGRAM

DIVISION	COMMITTED / NON	COUNTY	ROUTE/CITY	ID NUMBER	LOCATION / DESCRIPTION	LENGTH	TOTAL PROJ COST (THOU)	PRIOR YEARS COST (THOU)	FUNDS	TYPE OF WORK / ESTIMATED COST IN THOUSANDS / PROJECT BREAKS										UNFUNDED FUTURE YEARS
										STATE TRANSPORTATION IMPROVEMENT PROGRAM					DEVELOPMENTAL PROGRAM					
										FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	
URBAN PROJECTS																				
<input type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	US 29 BUSINESS/US 158 (FREEWAY DRIVE)	U-3326	SOUTH SCALES STREET TO NC 14 IN REIDSVILLE. WIDEN TO MULTILANES.	5.6	101957	101957												
										COMMITTED / NON <input type="checkbox"/> <input type="checkbox"/> A SOUTH SCALES STREET TO SR 2686 (RICHARDSON DRIVE) - UNDER CONSTRUCTION COMMITTED / NON <input type="checkbox"/> <input type="checkbox"/> B SR 2686 (RICHARDSON DRIVE) TO NC 14 - UNDER CONSTRUCTION										
BRIDGE PROJECTS																				
<input type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	NC 14 / NC 87	B-6038	REPLACE BRIDGE 780155 OVER NORFOLK SOUTHERN RAILROAD.		4390	100					R	390						
										NHPB NHPB										
<input type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	NC 14 / NC 87	BR-0044	REPLACE BRIDGE 780168 OVER SMITH RIVER.															
										REG										
PROJECT DELETED - WORK TO BE COMPLETED UNDER STATE BRIDGE PROGRAM																				
<input type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	SR 1138 (LINDSEY BRIDGE ROAD)	B-5716	REPLACE BRIDGE 780140 OVER DAN RIVER		7660	950		BGOFF	R	610								
										BGOFF BGOFF										
										C 6100										
DIV																				
<input type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	SR 1169 (ISLAND DRIVE)	B-5722	REPLACE BRIDGE 780277 OVER BEAVER CREEK		2775	575		BGOFF	R	200								
										BGOFF BGOFF										
										C 2000										
DIV																				
<input type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	SR 2177 (DAN VALLEY ROAD)	B-5721	REPLACE BRIDGE 780124 OVER MAYO RIVER IN MADISON.		4157	200		BGLT5			R	188						
										BGLT5 BGLT5										
										C 3500										
DIV																				
<input type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	SR 2600 (MIZPAH CHURCH ROAD)	BR-0042	REPLACE BRIDGE 780116 OVER US 29.															
DIV																				
PROJECT DELETED - WORK TO BE COMPLETED UNDER STATE BRIDGE PROGRAM																				
<input type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	US 220 (NORTHBOUND)	B-5352	REPLACE BRIDGE 780131 OVER NORFOLK SOUTHERN RAILROAD.		2390	2390												
SW																				
UNDER CONSTRUCTION																				
<input type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	SR 2351 (WITTY ROAD)	B-5715	REPLACE BRIDGE 780017 OVER HAW RIVER.		1283	1283												
DIV																				
UNDER CONSTRUCTION																				
<input type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	SR 1925 (WORSHAM MILL ROAD)	B-4803	REPLACE BRIDGE 780097 OVER WOLF ISLAND CREEK.		2358	2358												
DIV																				
UNDER CONSTRUCTION																				
<input type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	SR 2600 (MIZPAH CHURCH ROAD)	B-4964	REPLACE BRIDGE 780085 OVER SOUTHERN RAILROAD.		2843	2843												
DIV																				
UNDER CONSTRUCTION																				

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NCBOT AMENDED STIP DECEMBER - 2020

NON-HIGHWAY PROGRAM

DIVISION COMMITTED / NON	COUNTY	ROUTE/CITY	ID NUMBER	LOCATION / DESCRIPTION	LENGTH	TOTAL PROJ COST (THOU)	PRIOR YEARS COST (THOU)	TYPE OF WORK / ESTIMATED COST IN THOUSANDS / PROJECT BREAKS												UNFUNDED FUTURE YEARS
								STATE TRANSPORTATION IMPROVEMENT PROGRAM						DEVELOPMENTAL PROGRAM						
								FUNDS	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029		
PUBLIC TRANSPORTATION PROJECTS																				
<input type="checkbox"/>	<input type="checkbox"/>	ALAMANCE	ALAMANACE COUNTY TRANSPORTATION	TK-6103	ADMINISTRATION	4882	3458	5311	AD	89	AD	89	AD	89	AD	89				
					PT			L	AD	53	AD	53	AD	53	AD	53				
								S	AD	214	AD	214	AD	214	AD	214				
FUNDS AUTHORIZED IN PROGRESS																				
<input type="checkbox"/>	<input type="checkbox"/>	ALAMANCE	ALAMANACE COUNTY TRANSPORTATION	TO-5214	OPERATING FOR ALAMANCE COUNTY TRANSPORTATION IN THE BURLINGTON URBAN AREA - THROUGH NCDOT	10060	2247	5307	O	284	O	660	O	670	O	680	O	690	O	700
					PT			L	O	284	O	330	O	335	O	340	O	345	O	350
FUNDS AUTHORIZED IN PROGRESS																				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ALAMANCE	BURLINGTON	TA-6733	CAPITAL FOR FIXED ROUTE VEHICLE REPLACEMENT	1235		5307	CP	1029										
					PT			L	CP	206										
ADD PROJECT TA-6733 TO STIP FOR FFY2019. NEW PROJECT DEVELOPED FOR FEDERAL FUNDING AWARD. PROJECT ADDED AT REQUEST OF BGMPO.																				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ALAMANCE	BURLINGTON	TD-6322	CAPITAL FOR PEDESTRIAN IMPROVEMENTS FOR FIXED ROUTR SERVICES	60		5307	CP	50										
								L	CP	10										
ADD PROJECT TD-6322 TO STIP FOR FFY2019. NEW PROJECT DEVELOPED FOR FEDERAL FUNDING AWARD. PROJECT ADDED AT REQUEST OF BGMPO.																				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ALAMANCE	BURLINGTON	TG-6812A	ADA SERVICES	211		5307	O	169										
					PT			L	O	42										
ADD PROJECT TG-6812A TO STIP FOR FFY2019. NEW PROJECT DEVELOPED FOR FEDERAL FUNDING AWARD. PROJECT ADDED AT REQUEST OF BGMPO.																				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ALAMANCE	BURLINGTON	TO-6170	OPERATING ASSISTANCE TO MAINTAIN CURRENT LEVEL OF SERVICE IN ADDITION TO SERVICE EXPANSION FOR WEEKEND SERVICE.	3394		5307	O	1697										
					PT			L	O	1697										
ADD PROJECT TO-6170 TO STIP FOR FFY2019. NEW PROJECT DEVELOPED FOR FEDERAL FUNDING AWARD. PROJECT ADDED AT REQUEST OF BGMPO.																				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ALAMANCE	BURLINGTON	TP-5161	PLANNING FOR PLANNING FOR FIXED ROUTE SERVICE EXPANSION	5		5307	PL	4										
					PT			L	PL	1										
ADD PROJECT TP-5161 TO STIP FOR FFY2019. NEW PROJECT DEVELOPED FOR FEDERAL FUNDING AWARD. PROJECT ADDED AT REQUEST OF BGMPO.																				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ALAMANCE	BURLINGTON	TP-5162	PLANNING FOR PLANNING FACILITY FEASIBILITY STUDY	95		5307	PL	76										
					PT			L	PL	19										
ADD PROJECT TP-5162 TO STIP FOR FFY2019. NEW PROJECT DEVELOPED FOR FEDERAL FUNDING AWARD. PROJECT ADDED AT REQUEST OF BGMPO.																				
<input type="checkbox"/>	<input type="checkbox"/>	ALAMANCE	PIEDMONT AUTHORITY FOR REGIONAL TRANS.	TG-6137B	ROUTINE CAPITAL, PASSENGER AMENITIES, PARTS, EQUIPMENT, PREVENTIVE MAINTENANCE, AND CAPITAL COST OF CONTRACTING.	1000	250	5307	CP	100	CP	100	CP	100	CP	100	CP	100	CP	100
					PT			L	CP	25	CP	25	CP	25	CP	25	CP	25	CP	25
<input type="checkbox"/>	<input type="checkbox"/>	ALAMANCE GUILFORD	PIEDMONT AUTHORITY FOR REGIONAL TRANS.	TO-5136	OPERATING ASSISTANCE	11817	8549	SMAP	O	817	O	817	O	817	O	817				
					PT															
FUNDS AUTHORIZED IN PROGRESS																				
<input type="checkbox"/>	<input type="checkbox"/>	ALAMANCE	PIEDMONT AUTHORITY FOR REGIONAL TRANS.	TO-5134	OPERATING	6606	2800	5307	O	250	O	305	O	421	O	427	O	250	O	250
					PT			L	O	250	O	305	O	421	O	427	O	250	O	250
Pending FHWA Approval																				
FUNDS AUTHORIZED IN PROGRESS																				

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NCBOT AMENDED STIP DECEMBER - 2020

NON-HIGHWAY PROGRAM

DIVISION	COMMITTED / NON	COUNTY	ROUTE/CITY	ID NUMBER	LOCATION / DESCRIPTION	LENGTH	TOTAL PROJ COST (THOU)	PRIOR YEARS COST (THOU)	TYPE OF WORK / ESTIMATED COST IN THOUSANDS / PROJECT BREAKS										UNFUNDED FUTURE YEARS		
									STATE TRANSPORTATION IMPROVEMENT PROGRAM					DEVELOPMENTAL PROGRAM							
7									FUNDS	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029		
PUBLIC TRANSPORTATION PROJECTS																					
<input type="checkbox"/>	<input type="checkbox"/>	ALAMANCE FORSYTH GUILFORD	PIEDMONT AUTHORITY FOR REGIONAL TRANS.	TS-5115	SAFETY & SECURITY - MIN. 1% SET ASIDE		39	31	5307	CP	2	CP	2	CP	2	CP	2				
FUNDS AUTHORIZED IN PROGRESS																					
<input type="checkbox"/>	<input type="checkbox"/>	ALAMANCE CABARRUS CUMBERLAND DAVIDSON GUILFORD HARNETT HOKE IREDELL MECKLENBURG ORANGE UNION	STATEWIDE	TG-6187	URBANIZED FORMULA PROGRAM FUNDS MANAGED BY NCDOT FOR ORANGE, ALAMANCE, DAVIDSON, GUILFORD, CABARRUS, IREDELL, HOKE, CUMBERLAND, HARNETT, UNION, MECKLENBURG TRANSPORTATION SYSTEMS - CAPITAL PROGRAM		3751	1313	5307	CP	600	CP	650	CP	700						
									L	CP	150	CP	163	CP	175						
<input type="checkbox"/>	<input type="checkbox"/>	ALAMANCE	ALAMANCE COUNTY TRANSPORTATION	TG-6811B	FUNDING FOR PREVENTIVE MAINTENANCE.		46		FED	CP	37										
									L	CP	9										
PASSENGER RAIL PROJECTS																					
<input type="checkbox"/>	<input type="checkbox"/>	ALAMANCE CABARRUS DAVIDSON DURHAM GUILFORD MECKLENBURG ORANGE ROWAN WAKE	VARIOUS	P-4405	PRIVATE CROSSING SAFETY INITIATIVE TO CLOSE OR ENHANCE PROTECTION AT RAILROAD CROSSINGS BETWEEN RALEIGH AND CHARLOTTE.		10291	10291													
IN PROGRESS																					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ALAMANCE CASWELL GUILFORD ORANGE ROCKINGHAM	VARIOUS	RC-2007	TRAFFIC SEPARATION STUDY IMPLEMENTATION AND CLOSURES IN DIVISION 7.																
PROGRAMMED FOR PRELIMINARY ENGINEERING ONLY. INDIVIDUAL PROJECTS AND FUNDING TO BE REQUESTED IN THE FUTURE AS NEEDED.																					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ALAMANCE CASWELL GUILFORD ORANGE ROCKINGHAM	VARIOUS	RX-2007	HIGHWAY-RAIL GRADE CROSSING SAFETY IMPROVEMENTS IN DIVISION 7.																
PROGRAMMED FOR PRELIMINARY ENGINEERING ONLY. INDIVIDUAL PROJECTS AND FUNDING TO BE REQUESTED IN THE FUTURE AS NEEDED.																					

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NON-HIGHWAY PROGRAM

DIVISION COMMITTED / NON	7	COUNTY	ROUTE/CITY	ID NUMBER	LOCATION / DESCRIPTION	LENGTH	TOTAL PROJ COST (THOU)	PRIOR YEARS COST (THOU)	TYPE OF WORK / ESTIMATED COST IN THOUSANDS / PROJECT BREAKS										UNFUNDED FUTURE YEARS
									STATE TRANSPORTATION IMPROVEMENT PROGRAM					DEVELOPMENTAL PROGRAM					
									FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	
PASSENGER RAIL PROJECTS																			
<input type="checkbox"/>	<input type="checkbox"/>	ALAMANCE CASWELL GUILFORD ORANGE ROCKINGHAM	VARIOUS	Y-5807	TRAFFIC SEPARATION STUDY IMPLEMENTATION AND CLOSURES IN DIVISION 7.														
									DIV										
INDIVIDUAL PROJECTS AND FUNDING TO BE REQUESTED IN THE FUTURE AS NEEDED.																			
<input type="checkbox"/>	<input type="checkbox"/>	ALAMANCE CASWELL GUILFORD ORANGE ROCKINGHAM	VARIOUS	Z-5807	HIGHWAY-RAIL GRADE CROSSING SAFETY IMPROVEMENTS IN DIVISION 7.														
									DIV										
INDIVIDUAL PROJECTS AND FUNDING TO BE REQUESTED IN THE FUTURE AS NEEDED.																			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ALAMANCE CABARRUS DAVIDSON DURHAM GUILFORD MECKLENBURG ORANGE RANDOLPH ROWAN WAKE	NCRR	P-5719	PURCHASE AND REFURBISH RAIL CARS FOR PIEDMONT SERVICE EXPANSION.		45277	45277											
									EX										
COMMITTED / NON <input checked="" type="checkbox"/> <input type="checkbox"/> EX A ACQUIRE AND REBUILD 2 ADDITIONAL LOCOMOTIVES - IN PROGRESS COMMITTED / NON <input checked="" type="checkbox"/> <input type="checkbox"/> EX B ACQUIRE AND REFURBISH 2 COACH AND 1 LOUNGE/BAGGAGE RAIL CARS - IN PROGRESS COMMITTED / NON <input checked="" type="checkbox"/> <input type="checkbox"/> REG C ACQUIRE AND REFURBISH 8 RAIL CARS - IN PROGRESS																			
<input type="checkbox"/>	<input type="checkbox"/>	ALAMANCE CABARRUS DAVIDSON DURHAM GUILFORD MECKLENBURG ORANGE RANDOLPH ROWAN WAKE	PIEDMONT CORRIDOR	P-2918	TRAIN 74 / 75 OPERATIONS BETWEEN CHARLOTTE AND RALEIGH, EQUIPMENT AND CAPITAL YARD MAINTENANCE FACILITY.		174422	174422											
									EX										
COMMITTED / NON <input type="checkbox"/> <input type="checkbox"/> A EQUIPMENT REBUILD - 2 F59PHI LOCOMOTIVES - IN PROGRESS COMMITTED / NON <input type="checkbox"/> <input type="checkbox"/> B PURCHASE 2 USED LOCOMOTIVES - COMPLETE COMMITTED / NON <input type="checkbox"/> <input type="checkbox"/> C EQUIPMENT REHABILITATION - 3 LOCOMOTIVES - IN PROGRESS COMMITTED / NON <input type="checkbox"/> <input type="checkbox"/> D EQUIPMENT REHABILITATION - 3 PASSENGER CARS - COMPLETE COMMITTED / NON <input type="checkbox"/> <input type="checkbox"/> E PASSENGER TRAIN SECURITY SYSTEM, CCTV DATA NETWORK AND GENERATORS - IN PROGRESS COMMITTED / NON <input type="checkbox"/> <input type="checkbox"/> F CRISP CHARLOTTE MAINTENANCE FACILITY - TRACK EXTENSION AND SHOP BUILDING - IN PROGRESS COMMITTED / NON <input type="checkbox"/> <input type="checkbox"/> G PURCHASE 4 USED PASSENGER CARS AND REHABILITATE 7 PASSENGER CARS - IN PROGRESS COMMITTED / NON <input type="checkbox"/> <input type="checkbox"/> H CAPITAL YARD PHASE 1 IMPROVEMENTS - EXTEND TRACKS 1 AND 2, MAJOR WORK TRACK 3 - IN PROGRESS COMMITTED / NON <input type="checkbox"/> <input type="checkbox"/> I EQUIP 9 STATIONS AND PLATFORMS WITH ADA/FRA PIDS - IN PROGRESS																			
<input type="checkbox"/>	<input type="checkbox"/>	ALAMANCE	PIEDMONT CORRIDOR	P-5205 TRN	GRAHAM TO HAW RIVER. SIDING AND CURVE REALIGNMENT.		11605	11605											
									UNDER CONSTRUCTION										

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								STATE TRANSPORTATION IMPROVEMENT PROGRAM					DEVELOPMENTAL PROGRAM						
								FUNDS	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	
PUBLIC TRANSPORTATION PROJECTS																			
<input type="checkbox"/>	CASWELL	CASWELL COUNTY	TK-6116	ADMINISTRATION		1568	1120	5311	O	89									
								5311			AD	89	AD	89	AD	89			
								L											
								L	AD	17	AD	17	AD	17	AD	17			
								S	O	6									
								S			AD	6	AD	6	AD	6			
				PT															
FUNDS AUTHORIZED IN PROGRESS																			
AVIATION PROJECTS																			
<input checked="" type="checkbox"/>	GUILFORD	PIEDMONT TRIAD INTERNATIONAL AIRPORT (GSO)	AV-5800	TAXIWAY J EXTENSION, TAXIWAY D TO TAXIWAY J2.		6000		T							C	500			
								O							C	5500			
				SW															
<input checked="" type="checkbox"/>	GUILFORD	PIEDMONT TRIAD INTERNATIONAL AIRPORT (GSO)	AV-5701	RUNWAY 5R-23L EXTENSION PROGRAM		20000		O			C	19500							
								T			C	500							
				SW															
<input checked="" type="checkbox"/>	GUILFORD	PIEDMONT TRIAD INTERNATIONAL AIRPORT (GSO)	AV-5715	RUNWAY 5R-23L GROUP VI UPGRADE.		10000		T							C	500			
				SW															
<input checked="" type="checkbox"/>	GUILFORD	PIEDMONT TRIAD INTERNATIONAL AIRPORT (GSO)	AV-5718	HIGH SPEED TAXIWAY TO RUNWAY 5R-23L.		3000		O			C	2500							
								T			C	500							
				SW															
<input checked="" type="checkbox"/>	GUILFORD	PIEDMONT TRIAD INTERNATIONAL AIRPORT (GSO)	AV-5803	TAXIWAY F. CONSTRUCT TAXIWAY INCLUDING BRIDGE OVER TED JOHNSON PARKWAY.		27000		T							C	500			
								O							C	26500			
				SW															
<input checked="" type="checkbox"/>	GUILFORD	PIEDMONT TRIAD INTERNATIONAL AIRPORT (GSO)	AV-5802	CONSTRUCT NORTHWEST APRON TO INCREASE CAPACITY FOR FUTURE EXPANSION.		10000		T							C	500			
								O							C	9500			
				SW															
<input checked="" type="checkbox"/>	GUILFORD	PIEDMONT TRIAD INTERNATIONAL AIRPORT (GSO)	AV-5711	SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM (SMGCS) UPDATE.		8000		T							C	500			
								O							C	7500			
				SW															
WORK PERFORMED BY PIEDMONT TRIAD AIRPORT AUTHORITY																			
<input checked="" type="checkbox"/>	GUILFORD	PIEDMONT TRIAD INTERNATIONAL AIRPORT (GSO)	AV-5708	CONSTRUCT TAXIWAY OVER FUTURE I-73 EAST OF SR 2085 (BRYAN BOULEVARD).		1025	525	T		C	500								
				SW															
IN PROGRESS BY PIEDMONT TRIAD AIRPORT AUTHORITY																			

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								STATE TRANSPORTATION IMPROVEMENT PROGRAM					DEVELOPMENTAL PROGRAM					
								FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	
BICYCLE AND PEDESTRIAN PROJECTS																		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	GUILFORD	HOLDEN ROAD; EAST LINDSAY STREET	EB-5716	HOLDEN ROAD, SOUTH OF MEADOWVIEW ROAD TO SPRING GARDEN ROAD IN GREENSBORO. CONSTRUCT SIDEWALK ON WEST SIDE. EAST LINDSAY STREET, MURROW BOULEVARD TO BESSEMER AVENUE IN GREENSBORO. CONSTRUCT SIDEWALK ON NORTH SIDE.	1.8	530	530										
				DIV														
UNDER CONSTRUCTION																		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	GUILFORD	FARMINGTON DRIVE	EB-5877	HOLDEN ROAD TO SR 4121 (WEST GATE CITY BOULEVARD) IN GREENSBORO. CONSTRUCT SIDEWALKS.	1	446	86	TAANY		R	48						
				DIV					L		R	12						
									TAANY		C	240						
									L		C	60						
<input checked="" type="checkbox"/>	<input type="checkbox"/>	GUILFORD	GREEN VALLEY ROAD	EB-5997	FRIENDLY AVENUE TO WESTOVER TERRACE IN GREENSBORO. CONSTRUCT SIDEWALKS.	1.3	403		TAANY		R	36						
				DIV					L		R	9						
									TAANY				C	286				
									L				C	72				
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	LATHAM PARK GREENWAY	EB-5518	BATTLEGROUND AVENUE TO MENDENHALL STREET IN GREENSBORO. REMOVE THROUGH LANE ON HILL STREET AND CONSTRUCT MULTIUSE PATH.	0.7	562	562										
				TRN														
UNDER CONSTRUCTION BY CITY OF GREENSBORO																		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	GUILFORD	SUMMERFIELD SOUTH GREENWAY	EB-5900	US 220 TO CENTERFIELD ROAD IN SUMMERFIELD. CONSTRUCT MULTIUSE PATH.	2.6	4286		TAANY		R	312						
				DIV					L		R	78						
									TAANY				C	3117				
									L				C	779				
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GUILFORD	HIGH POINT RAILROAD ESPLANADE	EB-5990	LINDSAY STREET TO CENTENNIAL STREET IN HIGH POINT. CONSTRUCT GREENWAY.	1	8800		TA5200							PE	640	
				DIV					L						PE	160		
									TA5200								C	6400
									L								C	1600
<input checked="" type="checkbox"/>	<input type="checkbox"/>	GUILFORD	HOLDEN ROAD	EB-5876	SR 4121 (WEST GATE CITY BOULEVARD) TO NORTH OF SR 4121 (WEST GATE CITY BOULEVARD) IN GREENSBORO. CONSTRUCT SIDEWALKS.	0.2	393	393										
				DIV														
UNDER CONSTRUCTION BY CITY OF GREENSBORO																		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	GUILFORD	BRIDFORD PARKWAY; HORNADAY ROAD	EB-5993	BRIDFORD PARKWAY FROM SR 1541 (WEST WENDOVER AVENUE) TO HORNADAY ROAD AND HORNADAY ROAD FROM WEST OF NICHOLAS ROAD TO BRIDFORD PARKWAY IN GREENSBORO. CONSTRUCT SIDEWALKS.	0.9	390		TAANY	C	312							
				DIV					L	C	78							
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GUILFORD	JOHNSON STREET	EB-5999	PARRIS AVENUE TO SR 1896 (EAST HARTLEY DRIVE) IN HIGH POINT. CONSTRUCT SIDEWALK.	0.5	145		TA5200							C	116	
				DIV					L						C	29		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	GUILFORD	LAWNDALE DRIVE	EB-5995	PISGAH CHURCH ROAD TO LAKE BRANDT ROAD IN GREENSBORO. CONSTRUCT SIDEWALK.	2.5	429		TAANY		R	38						
				DIV					L		R	10						
									TAANY				C	305				
									L				C	76				

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									STATE TRANSPORTATION IMPROVEMENT PROGRAM						DEVELOPMENTAL PROGRAM				
									FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	
BICYCLE AND PEDESTRIAN PROJECTS																			
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	LOVETT STREET	EB-5712	SR 1398 (FREEMAN MILL ROAD) TO FLORIDA STREET IN GREENSBORO. CONSTRUCT SIDEWALKS ON WEST SIDE AND ON EAST SIDE FROM EXISTING SIDEWALK TO FLORIDA STREET.	0.6	370	370	PROJECT COMPLETE										
<input checked="" type="checkbox"/>	<input type="checkbox"/>	GUILFORD	OLD BATTLEGROUND ROAD	EB-5987	LAKE BRANDT ROAD TO BICENTENNIAL GREENWAY IN GREENSBORO. CONSTRUCT MULTIUSE PATH.	0.6	986		TAANY						PE	79			
									L						PE	20			
									TAANY								C	710	
									L								C	177	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	GUILFORD	WEST MEADOWVIEW ROAD	EB-5878	SR 1007 (RANDLEMAN ROAD) TO SOUTH ELM-EUGENE STREET IN GREENSBORO. CONSTRUCT SIDEWALKS.	0.5	328	18	TAANY			R	41						
									L			R	10						
									TAANY			C	207						
									L			C	52						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GUILFORD	SPRING GARDEN STREET	EB-5992	SR 1008 (WEST MARKET STREET) TO POMONA DRIVE AND MERRITT DRIVE TO HOLDEN ROAD IN GREENSBORO. CONSTRUCT SIDEWALK.	0.9	350		TAANY										
									L										
									TAANY										
									L								C	252	
																	C	63	
PUBLIC TRANSPORTATION PROJECTS																			
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	VARIOUS	TA-4771	GREENSBORO, CLEAN DIESEL REPLACEMENT BUSES		2080		5307	CP	1768								
									L	CP	312								
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	VARIOUS	TG-4759	PREVENTIVE MAINTENANCE		12081		5307	CP	1090	CP	2858	CP	2858	CP	2858		
									L	CP	272	CP	715	CP	715	CP	715		
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	GREENSBORO TRANSIT AUTHORITY	TA-6714	ELECTRIC VEHICLE AND CHARGING INFRASTRUCTURE		1540		5339	CP	578								
									L	CP	102								
									CMAQ			CP	191						
									L			CP	167						
									O			CP	502						
"O" FUNDS REFLECT PROCEEDS FROM VOLKSWAGEN SETTLEMENT																			
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	GREENSBORO TRANSIT AUTHORITY	TG-4753	PREVENTIVE MAINTENANCE AND PASSENGER AMENITIES		945	315	5307	CP	84	CP	84	CP	84	CP	84	CP	84
									L	CP	21	CP	21	CP	21	CP	21	CP	21
FUNDS AUTHORIZED IN PROGRESS																			
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	GREENSBORO TRANSIT AUTHORITY	TQ-6783	SECTION 5310 CAPITAL PROJECT		1044		5310	CP	209	CP	209	CP	209	CP	209		
									L	CP	52	CP	52	CP	52	CP	52		
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	BURLINGTON/GIBSON VILLE	TO-6151	OPERATING FIXED ROUTE SYSTEM		4032	2016	5307	O	504	O	504						
									L	O	504	O	504						

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									STATE TRANSPORTATION IMPROVEMENT PROGRAM					DEVELOPMENTAL PROGRAM							
									FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029			
PUBLIC TRANSPORTATION PROJECTS																					
<input type="checkbox"/>	<input type="checkbox"/>	FORSYTH GUILFORD WATAUGA WILKES YADKIN	COACH AMERICA	TI-6103	INTERCITY BUS - GREENSBORO TO BOONE		12802	9282	5311	O	360	O	360	O	360	O	360				
									L	O	161	O	161	O	359	O	161				
									S	O	359	O	359	O	161	O	359				
PT																					
FUNDS AUTHORIZED IN PROGRESS																					
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	GREENSBORO TRANSIT AUTHORITY	TD-5279	RENOVATION OF J. DOUGLAS GAYLON DEPOT		3724	1440	5339	CP	1538										
									L	CP	373										
									S	CP	373										
PT																					
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	GREENSBORO TRANSIT AUTHORITY	TG-4957	OPERATING-ADA PARATRANSIT SERVICE		11099	6552	5307	O	470	O	470	O	470	O	470	O	439	O	439
									L	O	117	O	118	O	118	O	118	O	110	O	110
PT																					
FUNDS AUTHORIZED IN PROGRESS																					
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	GREENSBORO TRANSIT AUTHORITY	TG-5105	ROUTINE CAPITAL		2432	1632	5307	CP	80	CP	80	CP	80	CP	80	CP	80	CP	80
									L	CP	20	CP	20	CP	20	CP	20	CP	20	CP	20
PT																					
FUNDS AUTHORIZED IN PROGRESS																					
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	GREENSBORO TRANSIT AUTHORITY	TG-5185	ROUTINE CAPITAL		1000	200	5307	CP	80	CP	80	CP	80	CP	80	CP	80	CP	80
									L		20		20		20		20		20		20
PT																					
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	GREENSBORO TRANSIT AUTHORITY	TO-6139	SECTION 5310 OPERATING		1710	1054	5310	O	34	O	30	O	30	O	30	O	51	O	51
									L	O	34	O	30	O	30	O	30	O	51	O	51
PT																					
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	GREENSBORO TRANSIT AUTHORITY	TO-4971	OPERATING- FIXED ROUTE		24684		5307	O	1243	O	1243	O	1243	O	1243				
									L	O	2979	O	3121	O	3121	O	3121				
									SMAP	O	1736	O	1878	O	1878	O	1878				
PT																					
FUNDS AUTHORIZED; IN PROGRESS																					
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	GREENSBORO TRANSIT AUTHORITY	TP-5101	PLANNING ASSISTANCE-5303		636		5303	PL	141	PL	141	PL	141	PL	141				
									L	PL	18	PL	18	PL	18	PL	18				
PT																					
FUNDS AUTHORIZED; IN PROGRESS																					
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	GREENSBORO TRANSIT AUTHORITY	TQ-7000	SECTION 5310 PROGRAM ADMINISTRATION		108		5310	AD	27	AD	27	AD	27	AD	27				
PT																					
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	GREENSBORO TRANSIT AUTHORITY	TS-4758	SAFETY & SECURITY		236		5307	CP	47	CP	47	CP	47	CP	47				
									L	CP	12	CP	12	CP	12	CP	12				
PT																					

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									STATE TRANSPORTATION IMPROVEMENT PROGRAM					DEVELOPMENTAL PROGRAM					
7									FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	
PUBLIC TRANSPORTATION PROJECTS																			
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	GTA	TA-4767	REPLACEMENT PARATRANSIT BUSES		2219		5307	CP	150								
									L	CP	26								
									5339			CP	579	CP	579	CP	579		
									L			CP	102	CP	102	CP	102		
					PT														
FUNDING ADDED TO FY 20, FY 21, FY 22, FY 23 AT THE REQUEST OF GREENSBORO MPO																			
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	GTA	TO-5209	OPERATING- FIXED ROUTE		5518	1286	5307	O	326	O	294	O	294	O	227	O	227
									L	O	326	O	294	O	294	O	227	O	227
					PT														
FUNDS AUTHORIZED IN PROGRESS																			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	GUILFORD	GTA	TT-5207	TRANSIT SAFETY INNOVATIONS		86		5312	O	34	O	22	O	12				
									L	O	9	O	6	O	3				
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	GUILFORD COUNTY TRANSPORTATION	TO-5216	OPERATING FUNDING FOR GUILFORD COUNTY THROUGH HIGH-POINT MPO		1505	175	5307	O	35	O	90	O	100	O	110	O	120
									L	O	35	O	45	O	50	O	55	O	60
					PT														
FUNDS AUTHORIZED IN PROGRESS																			
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	HIGH POINT TRANSIT SYSTEM / HI-TRAN	TA-6729	PURCHASE REPLACEMENT BUSES		1000	500	5307					CP	400				
									CMAQ										
									L					CP	100				
					PT														
<input checked="" type="checkbox"/>	<input type="checkbox"/>	GUILFORD	HIGH POINT TRANSIT SYSTEM / HI-TRAN	TD-5283	BUILDING / FACILITY RENOVATION AND UPGRADE FOR PARATRANSIT ADMINISTRATION.		300	300											
					REG														
IN PROGRESS																			
<input type="checkbox"/>	<input type="checkbox"/>	DAVIDSON GUILFORD RANDOLPH	HIGH POINT TRANSIT SYSTEM / HI-TRAN	TG-4814	ROUTINE CAPITAL - BUS STOP SHELTERS, BENCHES, SHOP EQUIPMENT, SPARE PARTS, ENGINES, FAREBOX, SERVICE VEHICLES, ETC (\$40K CAPITAL COST OF		3006	2090	5307	CP	181	CP	181	CP	181	CP	181		
									L	CP	48	CP	48	CP	48	CP	48		
					PT														
FUNDS AUTHORIZED IN PROGRESS																			
<input type="checkbox"/>	<input type="checkbox"/>	DAVIDSON GUILFORD RANDOLPH	HIGH POINT TRANSIT SYSTEM / HI-TRAN	TO-4790	OPERATING ASSISTANCE		42594	31078	5307	O	1202	O	1202	O	1202	O	1202		
									L	O	1202	O	1202	O	1202	O	1202		
									SMAP	O	475	O	475	O	475	O	475		
					PT														
FUNDS AUTHORIZED IN PROGRESS																			
<input type="checkbox"/>	<input type="checkbox"/>	GUILFORD	HIGH POINT TRANSIT SYSTEM / HI-TRAN	TP-5104	PLANNING ASSISTANCE - 5303		616	440	5303	CP	36	CP	36	CP	36	CP	36		
									L	CP	4	CP	4	CP	4	CP	4		
									S	CP	4	CP	4	CP	4	CP	4		
					PT														
FUNDS AUTHORIZED IN PROGRESS																			
<input type="checkbox"/>	<input type="checkbox"/>	DAVIDSON GUILFORD RANDOLPH	HIGH POINT TRANSIT SYSTEM / HI-TRAN	TS-5113	SAFETY & SECURITY - MIN. 1% SET ASIDE		220	156	5307	CP	14	CP	14	CP	14	CP	14		
									L	CP	2	CP	2	CP	2	CP	2		
					PT														
FUNDS AUTHORIZED IN PROGRESS																			

DIV - Division Category EX - Exempt Category
 HF - State Dollars (Non STI) REG - Regional Category
 SW - Statewide Category TRN - Transition Project

COST AND SCHEDULES ARE PRELIMINARY AND SUBJECT TO SIGNIFICANT CHANGE AS MORE INFORMATION BECOMES AVAILABLE

NCBOT AMENDED STIP DECEMBER - 2020

NON-HIGHWAY PROGRAM

DIVISION COMMITTED / NON	COUNTY	ROUTE/CITY	ID NUMBER	LOCATION / DESCRIPTION	LENGTH	TOTAL PROJ COST (THOU)	PRIOR YEARS COST (THOU)	TYPE OF WORK / ESTIMATED COST IN THOUSANDS / PROJECT BREAKS										UNFUNDED FUTURE YEARS	
								STATE TRANSPORTATION IMPROVEMENT PROGRAM					DEVELOPMENTAL PROGRAM						
								FUNDS	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	
PUBLIC TRANSPORTATION PROJECTS																			
<input type="checkbox"/>	<input type="checkbox"/>	DURHAM ORANGE	DURHAM AREA TRANSIT AUTHORITY	TN-5102	OPERATING ASSISTANCE - NEW FREEDOM - URBAN	1764	1260	5317	O	63	O	63	O	63	O	63			
				PT				L	O	63	O	63	O	63	O	63			
FUNDS AUTHORIZED IN PROGRESS																			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ORANGE	GO TRIANGLE	TD-5295	TOWN OF HILLSBOROUGH. CONSTRUCT PARK-AND-RIDE LOT.	1200	1200												
UNDER CONSTRUCTION BY GO TRIANGLE																			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ORANGE	GO TRIANGLE	TD-5284	UNC HOSPITALS AREA IN CHAPEL HILL. CONSTRUCT NEIGHBORHOOD TRANSIT CENTER TRANSFER STATION. 400; 405; 420; 800; 805; CRX; FCX	360		5307							C	288			
				REG				L							C	36			
								T							C	36			
<input type="checkbox"/>	<input type="checkbox"/>	ORANGE WAKE	GOTRIANGLE TRANSIT	TA-6669	PURCHASE EXPANSION VEHICLES FOR CRX ROUTE.	2431	2431												
IN ACQUISITION																			
<input type="checkbox"/>	<input type="checkbox"/>	ORANGE	ORANGE PUBLIC TRANSIT	TA-6731	PURCHASE NEW BUS < 30'.	56		FED	CP	45									
				PT				L	CP	11									
<input type="checkbox"/>	<input type="checkbox"/>	ORANGE	ORANGE PUBLIC TRANSIT	TD-5155	1 REPLACEMENT LTV (25') AND RADIO, VEHICLE LETTERING AND LOGOS, AND ON- BOARD CAMERA.	77	77												
IN PROGRESS BY ORANGE PUBLIC TRANSIT																			
<input type="checkbox"/>	<input type="checkbox"/>	ORANGE	ORANGE PUBLIC TRANSIT	TK-6151	ADMINISTRATION	2581	1837	5311	O	121	O	121	O	121	O	121			
				PT				L	O	28	O	28	O	28	O	28			
								S	O	37	O	37	O	37	O	37			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ORANGE	ORANGE PUBLIC TRANSIT	TA-6721	PURCHASE TWO (2) LIGHT TRANSIT VEHICLES	109		T			A	98							
				DIV				L			A	11							
<input type="checkbox"/>	<input type="checkbox"/>	DURHAM ORANGE	TRIANGLE TRANSIT AUTHORITY	TA-4818B	REPLACEMENT BUS	6491	5529	5307			CP	770							
				PT				L			CP	96							
								S			CP	96							
<input type="checkbox"/>	<input type="checkbox"/>	DURHAM ORANGE WAKE	TRIANGLE TRANSIT AUTHORITY	TG-4821B	ROUTINE CAPITAL - BUS STOP SHELTERS, BENCHES, SHOP EQUIPMENT, SPARE PARTS, ENGINES, FAREBOX, SERVICE VEHICLES, ETC INCLUDES ADA, PM AND SERVICE VEHICLES	24490	16614	5307	CP	1575	CP	1575	CP	1575	CP	1575			
				PT				L	CP	394	CP	394	CP	394	CP	394			
FUNDS AUTHORIZED IN PROGRESS																			
<input type="checkbox"/>	<input type="checkbox"/>	DURHAM ORANGE	TRIANGLE TRANSIT AUTHORITY	TP-4732A	PLANNING ASSISTANCE	8429	5477	5307	PL	590	PL	590	PL	590	PL	590			
				PT				L	PL	74	PL	74	PL	74	PL	74			
								S	PL	74	PL	74	PL	74	PL	74			
FUNDS AUTHORIZED IN PROGRESS																			

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NCBOT AMENDED STIP DECEMBER - 2020

NON-HIGHWAY PROGRAM

DIVISION COMMITTED / NON	COUNTY	ROUTE/CITY	ID NUMBER	LOCATION / DESCRIPTION	LENGTH	TOTAL PROJ COST (THOU)	PRIOR YEARS COST (THOU)	TYPE OF WORK / ESTIMATED COST IN THOUSANDS / PROJECT BREAKS										UNFUNDED FUTURE YEARS	
								STATE TRANSPORTATION IMPROVEMENT PROGRAM					DEVELOPMENTAL PROGRAM						
								FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029		
PASSENGER RAIL PROJECTS																			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ORANGE	NORFOLK SOUTHERN H LINE	P-5701	MILEPOST 41.7 IN HILLSBOROUGH. CONSTRUCT PLATFORM, PASSENGER RAIL STATION BUILDING, SITE ACCESS, UTILITIES AND PARKING.		8010	810	T		C	3315		C	3315				
				DIV				O		C	570								
"OTHER" FUNDING REFLECTS PARTICIPATION BY TRIANGLE TRANSIT																			
AVIATION PROJECTS																			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	ROCKINGHAM COUNTY AIRPORT (SIF)	AV-5852	EXTEND RUNWAY TO 5500 FT.		2072	200	T									C	1872
				DIV															
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	ROCKINGHAM COUNTY / NC SHILOH AIRPORT (SIF)	AV-5898	CONSTRUCT T-HANGAR TAXILANES FOR ADDITION OF T-HANGARS.		574		T									C	574
				DIV															
BICYCLE AND PEDESTRIAN PROJECTS																			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	US 220 BUSINESS	EB-5891	EAST JACKSON STREET IN MAYODAN TO MAYO RIVER STATE PARK. CONSTRUCT MULTIUSE PATH.	1.4	782	130	T	L	522								
				DIV							C	130							
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	SR 1747 (EAST STADIUM DRIVE)	EB-5888	SR 1962 (NORTH PIERCE STREET) TO FREEDOM PARK IN EDEN. CONSTRUCT SIDEWALK.	1	567	124	T	L	354								
				DIV							C	89							
PUBLIC TRANSPORTATION PROJECTS																			
<input type="checkbox"/>	<input type="checkbox"/>	ROCKINGHAM	ROCKINGHAM COUNTY COUNCIL ON AGING, INC.	TK-6159	ADMINISTRATION		2473	1765			O	142		O	142		O	142	
				PT							O	142		O	142		O	142	
											L	26		O	26		O	26	
											S	9		O	9		O	9	
FUNDS AUTHORIZED IN PROGRESS																			

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NORTH CAROLINA
Department of Transportation



Traffic Safety Data Trends / Performance Measures

Brian Mayhew

Brian Murphy

Overview

- Statewide Data Trends
- Burlington-Graham MPO Data Trends
- Safety Performance Measures

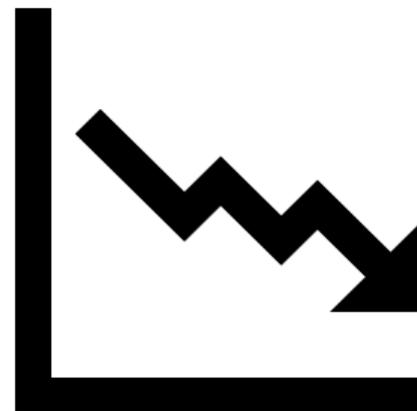
Overview

- **Statewide Data Trends**
- Burlington-Graham MPO Data Trends
- Safety Performance Measures



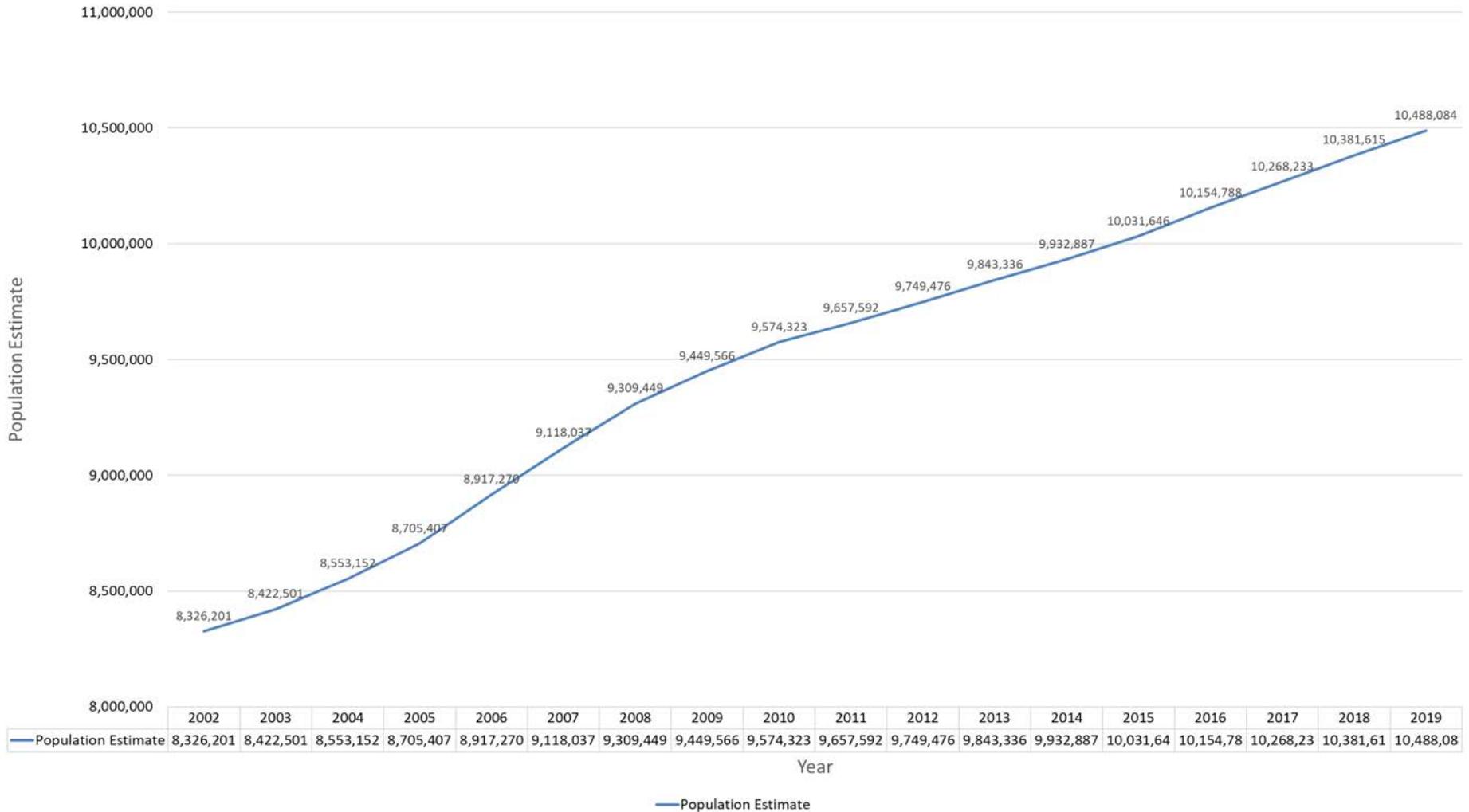
SHSP Goal

- Reduce all fatalities and serious injuries by half by 2035, moving towards zero by 2050.



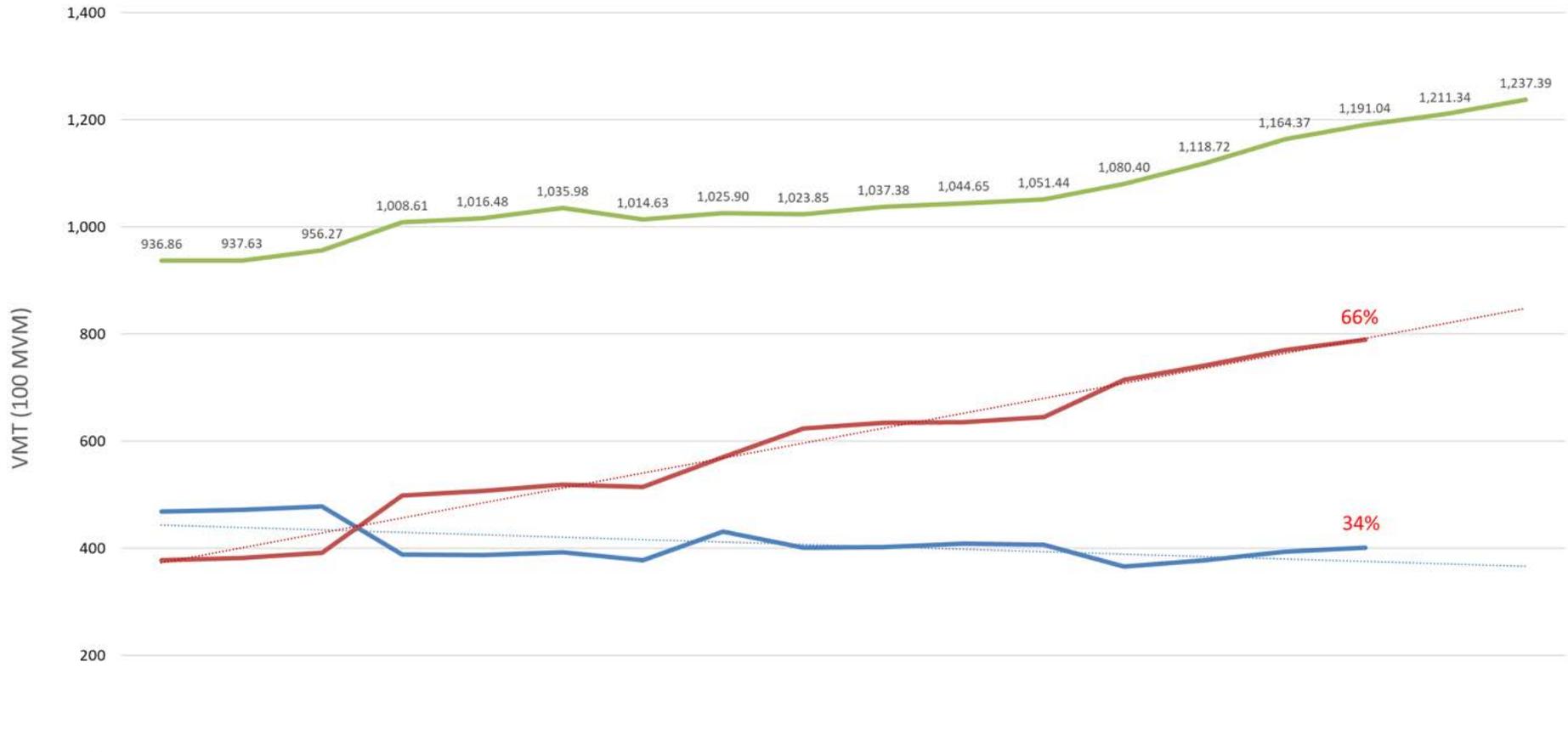
State Population

North Carolina Population Estimates Trends Since 2002



Vehicle Miles Traveled (VMT)

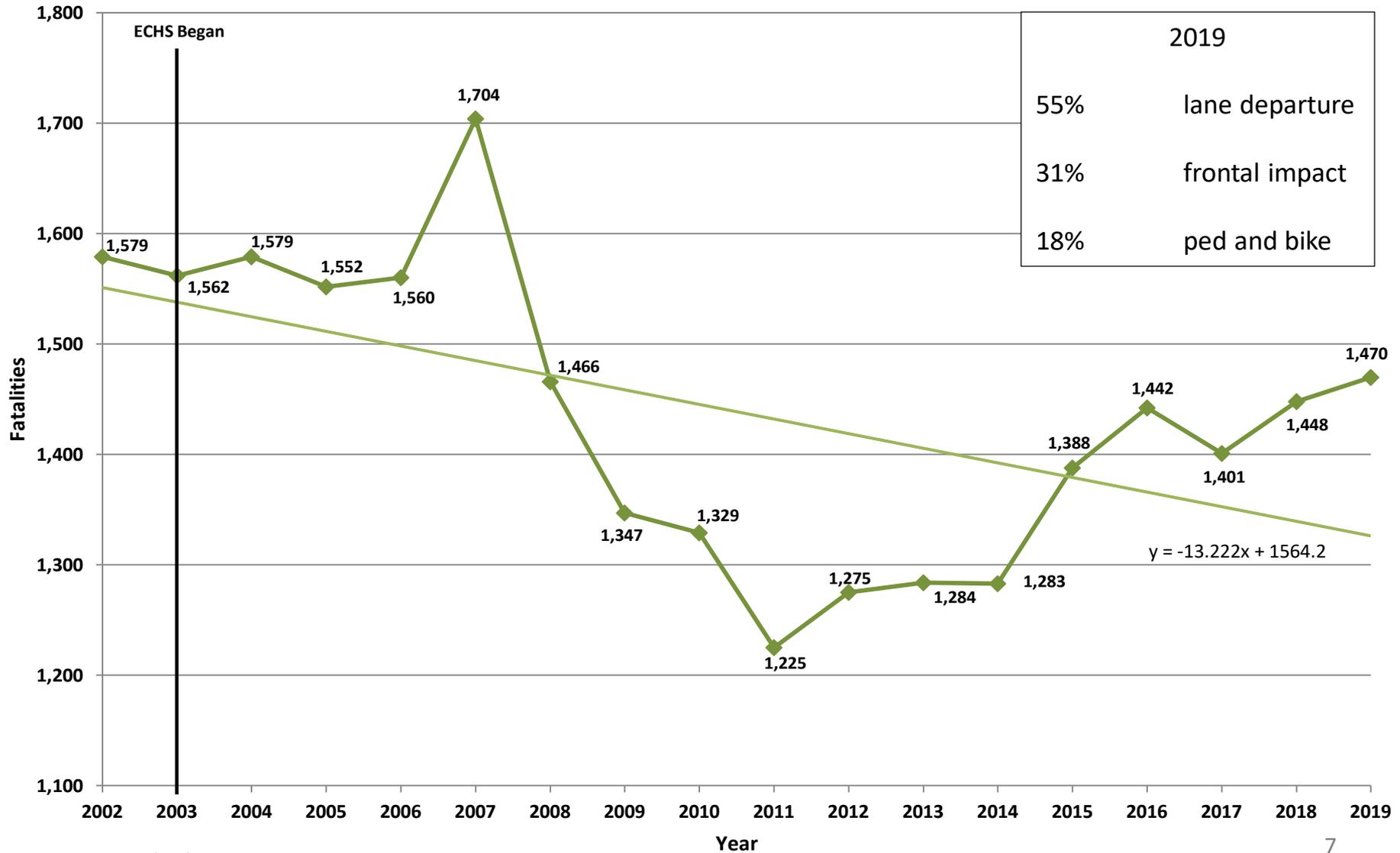
North Carolina VMT Trends Since 2002



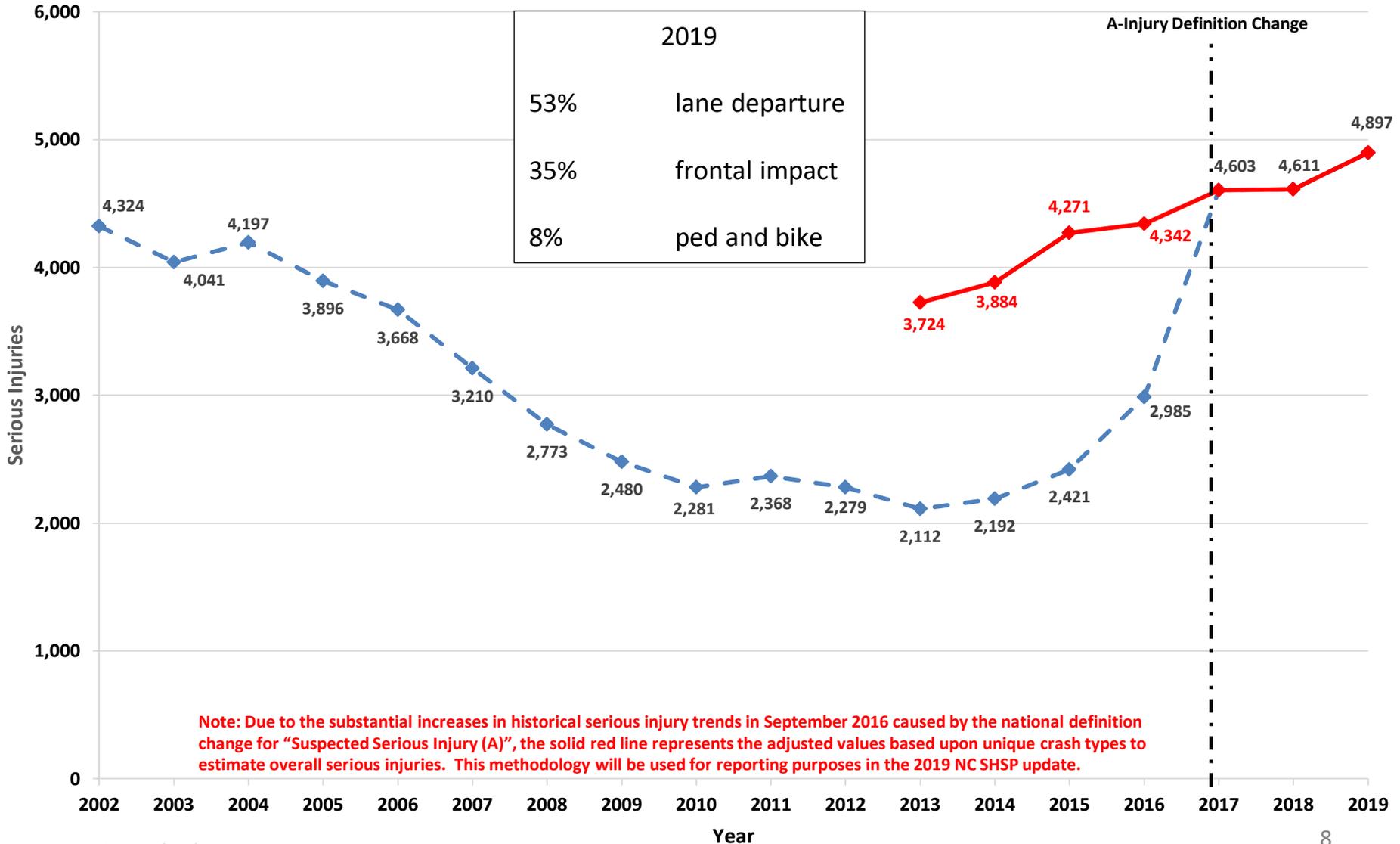
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019*
Rural VMT	468.76	471.78	477.83	388.24	387.67	392.19	377.80	431.34	400.76	402.55	408.71	405.94	365.77	377.56	393.69	401.27		
Urban VMT	377.04	381.73	390.91	498.92	507.13	519.21	514.43	570.24	624.03	634.83	635.94	645.50	714.63	741.16	770.68	789.77		
Total VMT	936.86	937.63	956.27	1,008.61	1,016.48	1,035.98	1,014.63	1,025.90	1,023.85	1,037.38	1,044.65	1,051.44	1,080.40	1,118.72	1,164.37	1,191.04	1,211.34	1,237.39

— Rural VMT
 — Urban VMT
 — Total VMT
 ⋯ Linear (Rural VMT)
 ⋯ Linear (Urban VMT)

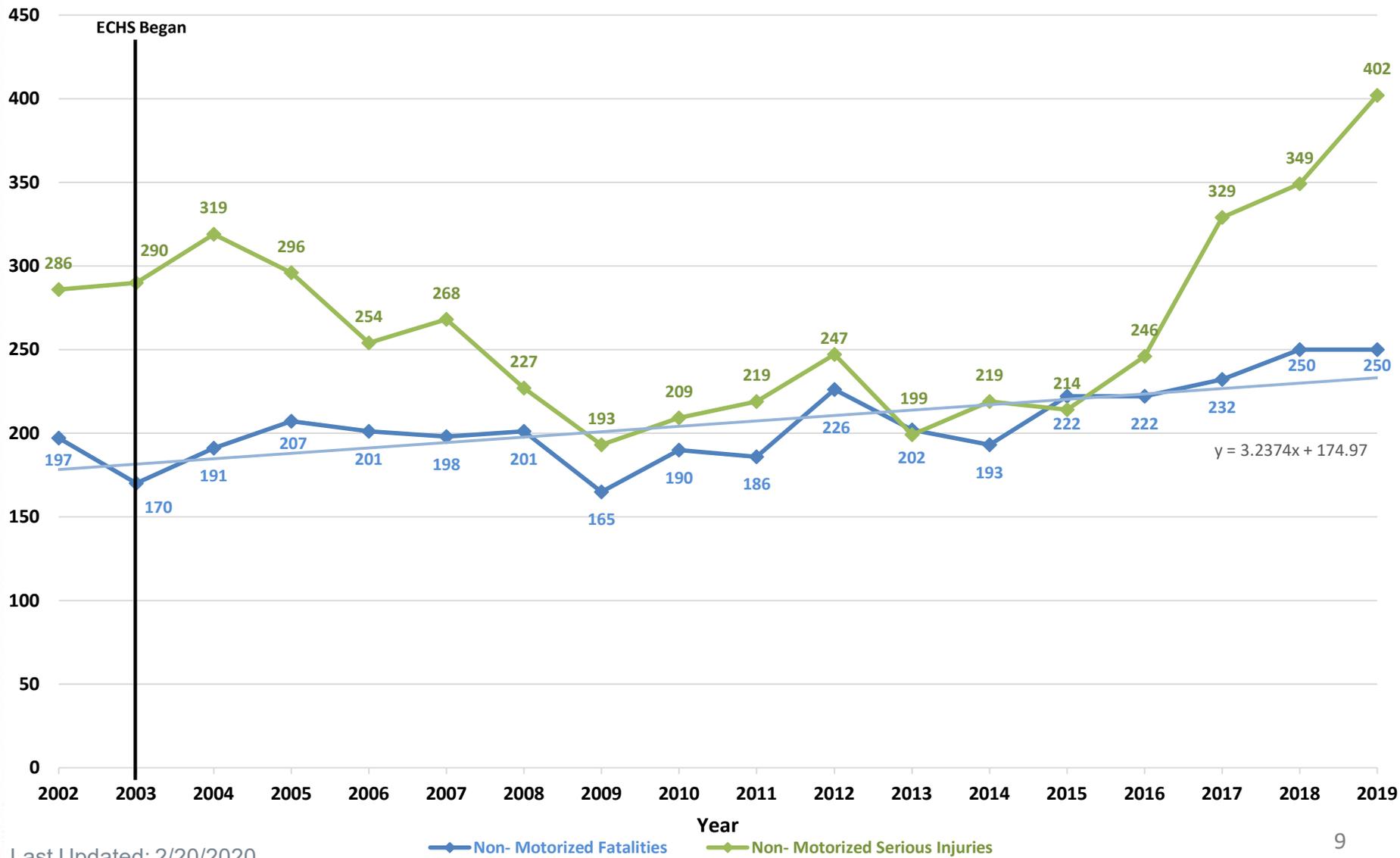
North Carolina Fatalities Trends Since 2002



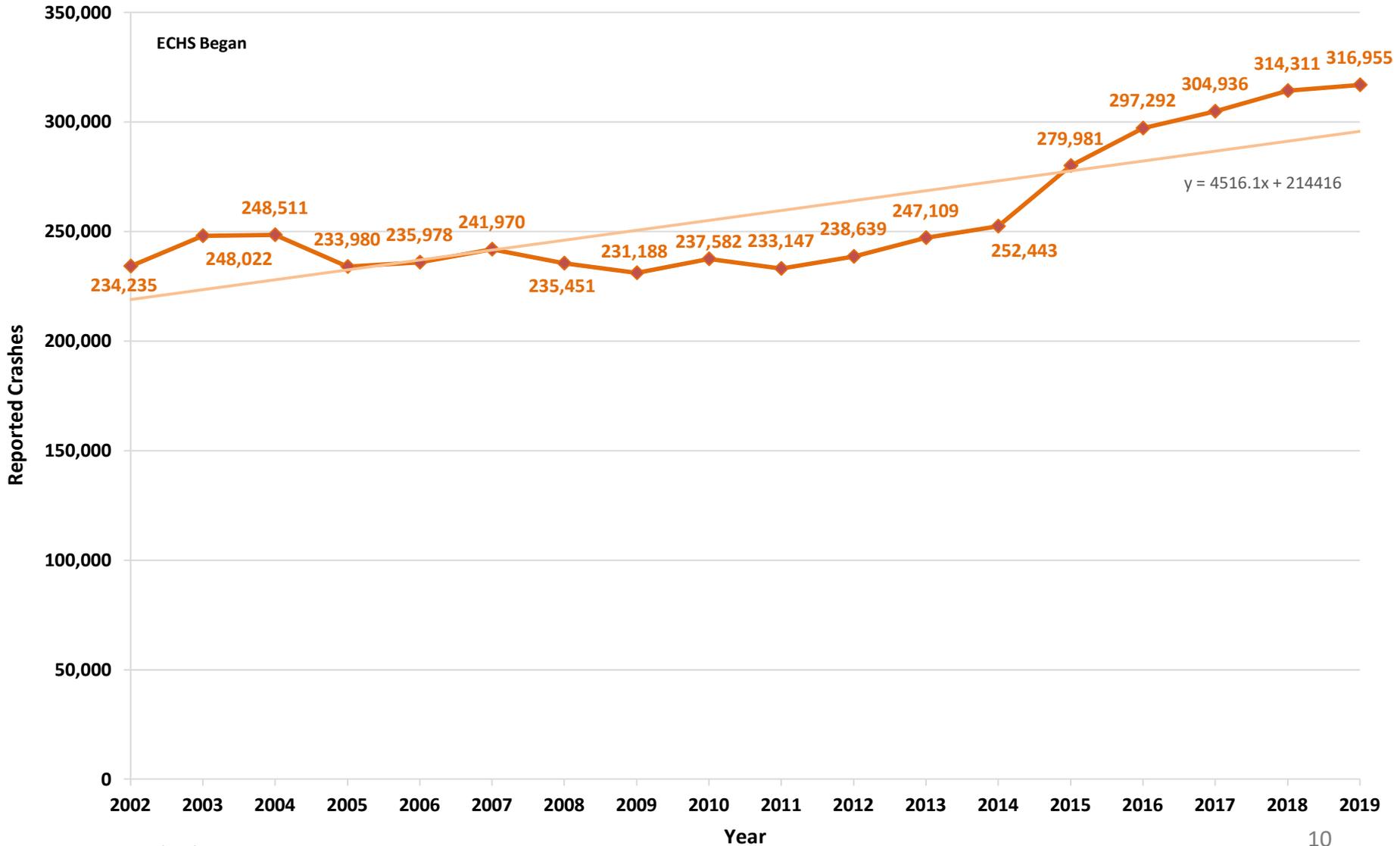
North Carolina Serious Injuries (A Type Injury - Disabling) Trends Since 2002



North Carolina Non-Motorized Fatalities and Serious Injuries Trends Since 2002



North Carolina Reported Crashes Trends Since 2002



Overview

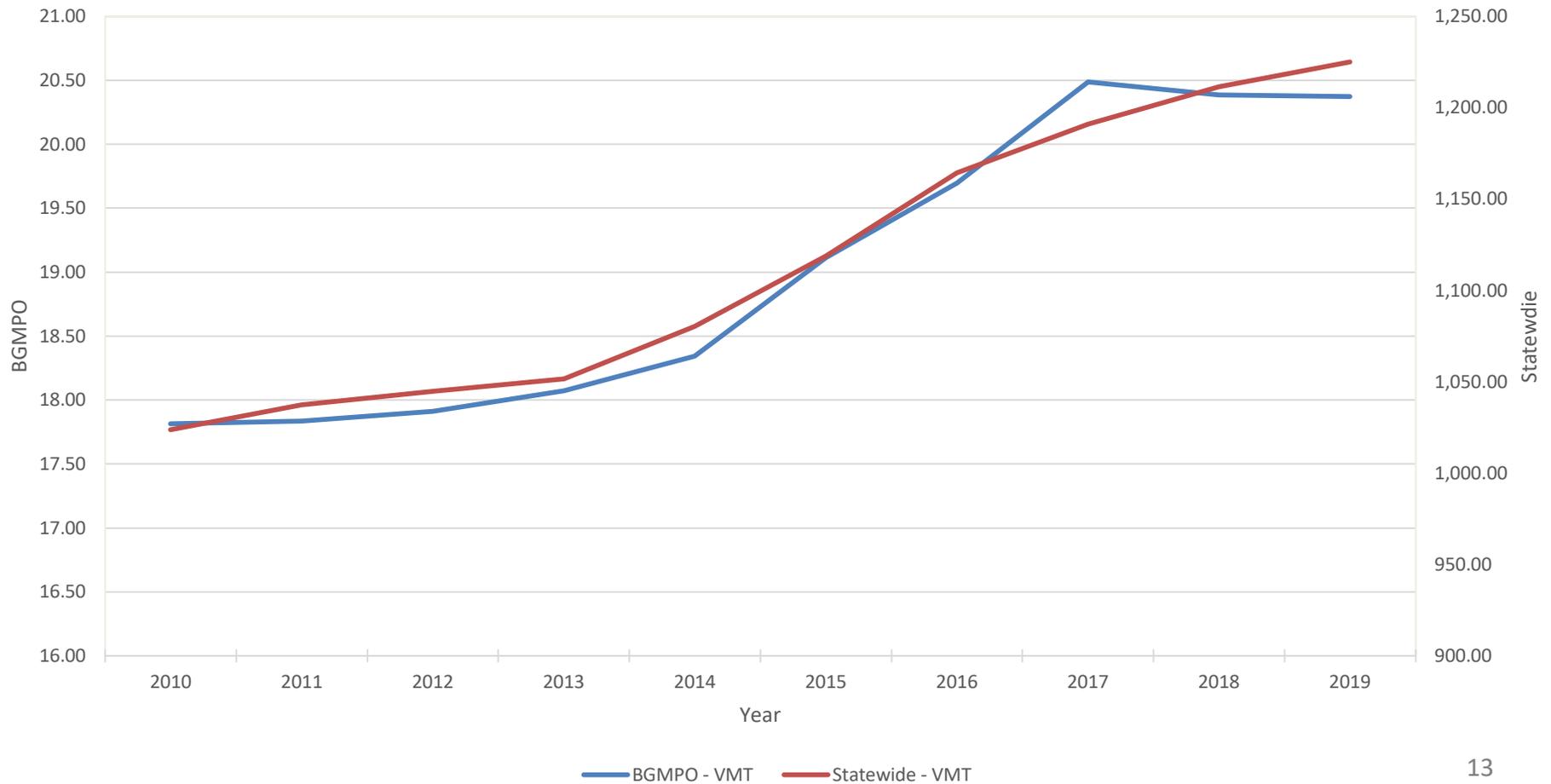
- Statewide Data Trends
- **Burlington-Graham MPO Data Trends**
- Safety Performance Measures

Burlington-Graham MPO Data Trends

- Vehicle Miles Traveled
- Total Reported Crashes
- **Fatal Crashes**
- **Serious Injury Crashes**
- **Non-Motorized Fatal and Serious Injury Crashes**
- Pedestrian Crashes
- Bicycle Crashes
- Breakdown by Municipality within Burlington-Graham MPO

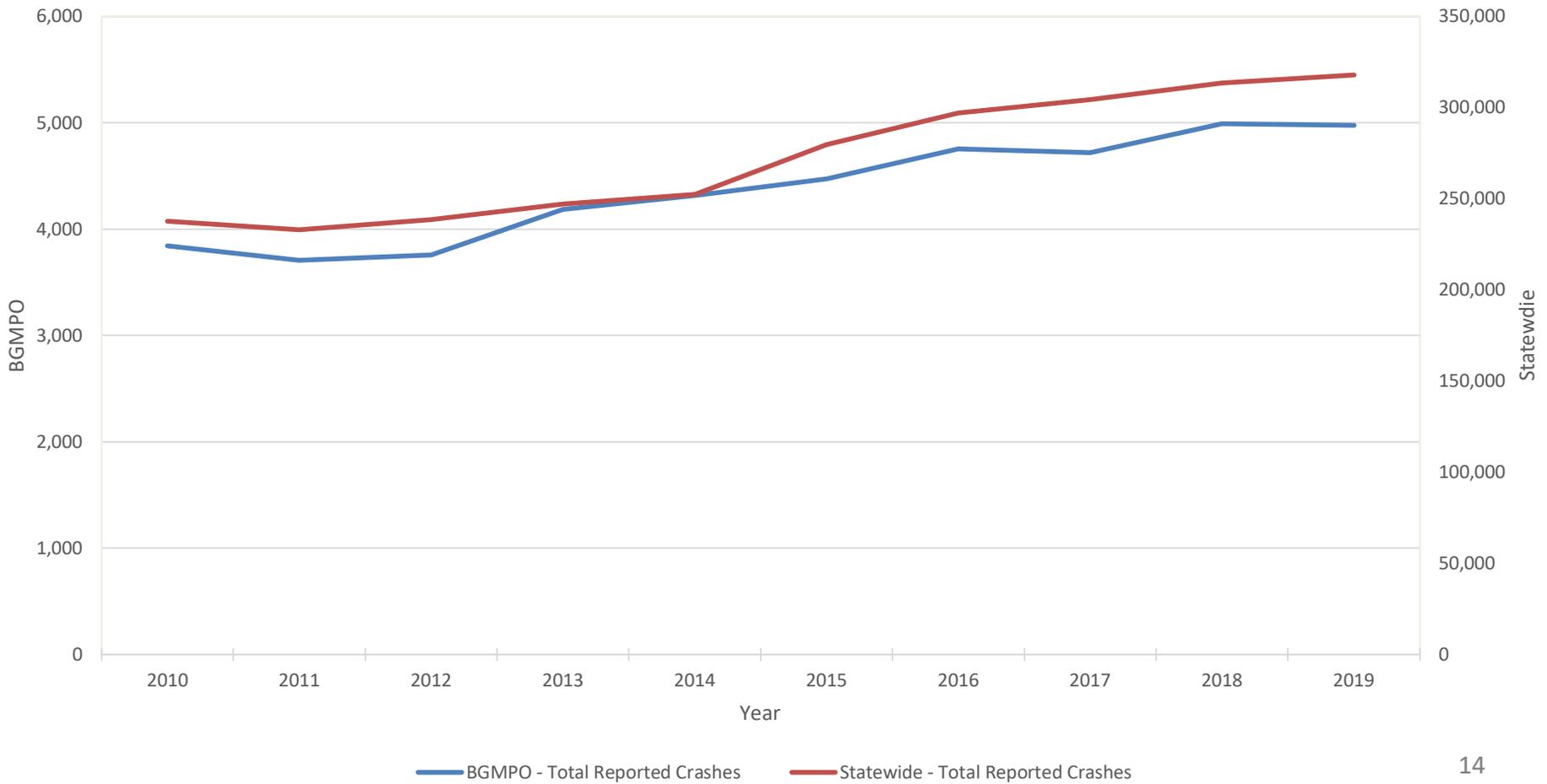
Vehicle Miles Traveled

Vehicle Miles Traveled (100 MVM) by Year
2010 - 2019



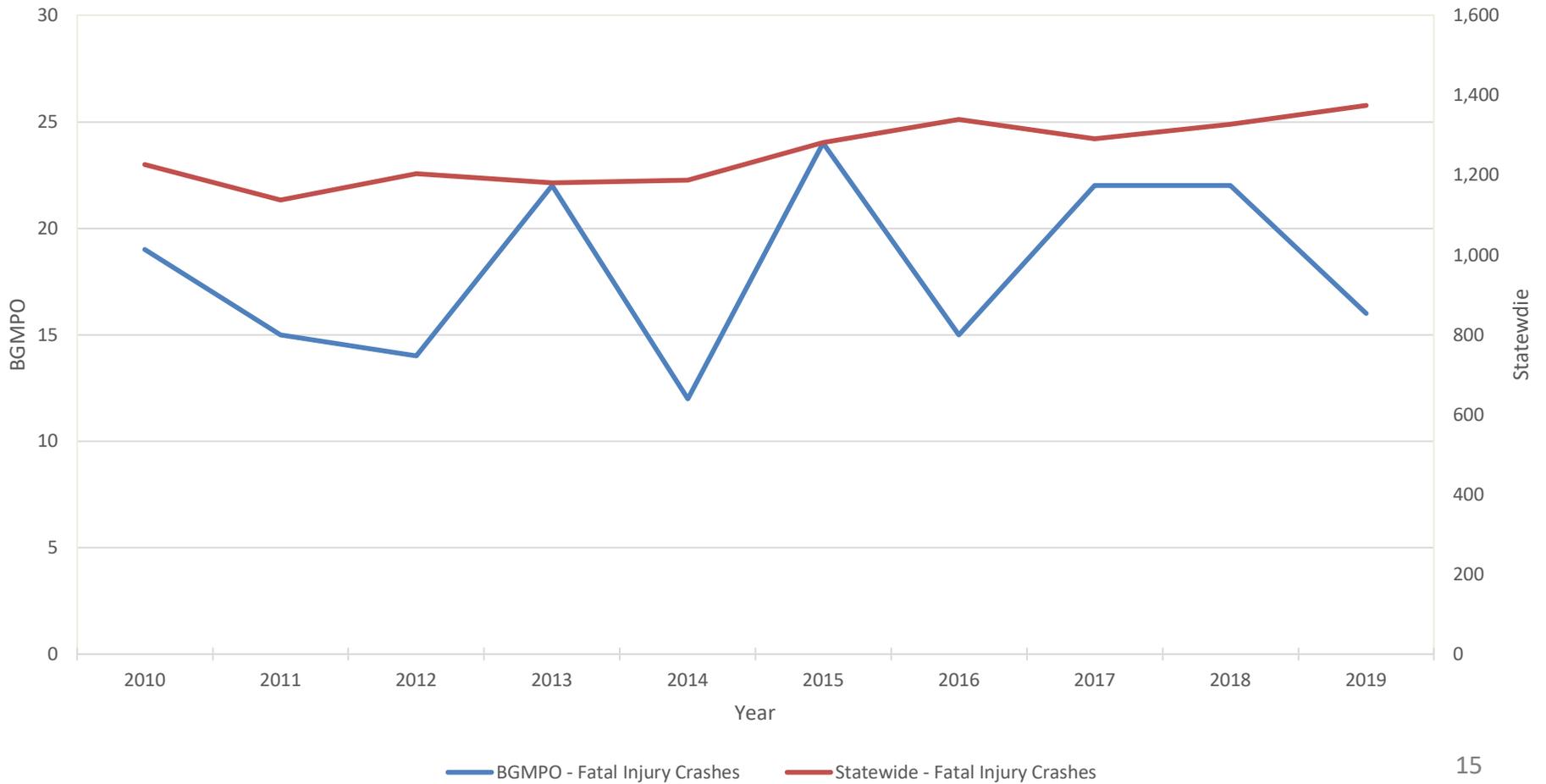
Total Reported Crashes

Total Crashes by Year
2010 - 2019



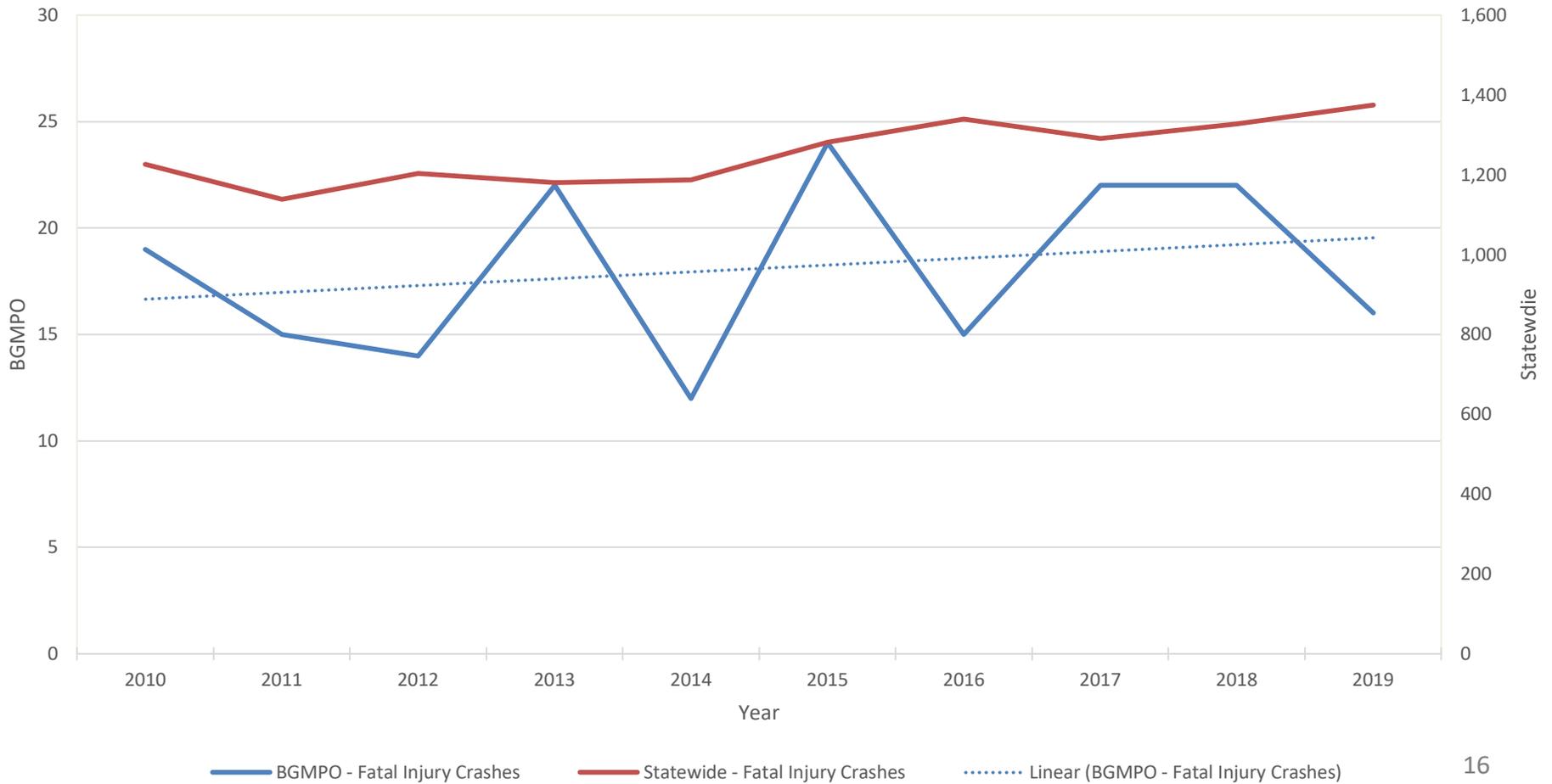
Fatal Crashes

Fatal Crashes by Year
2010 - 2019



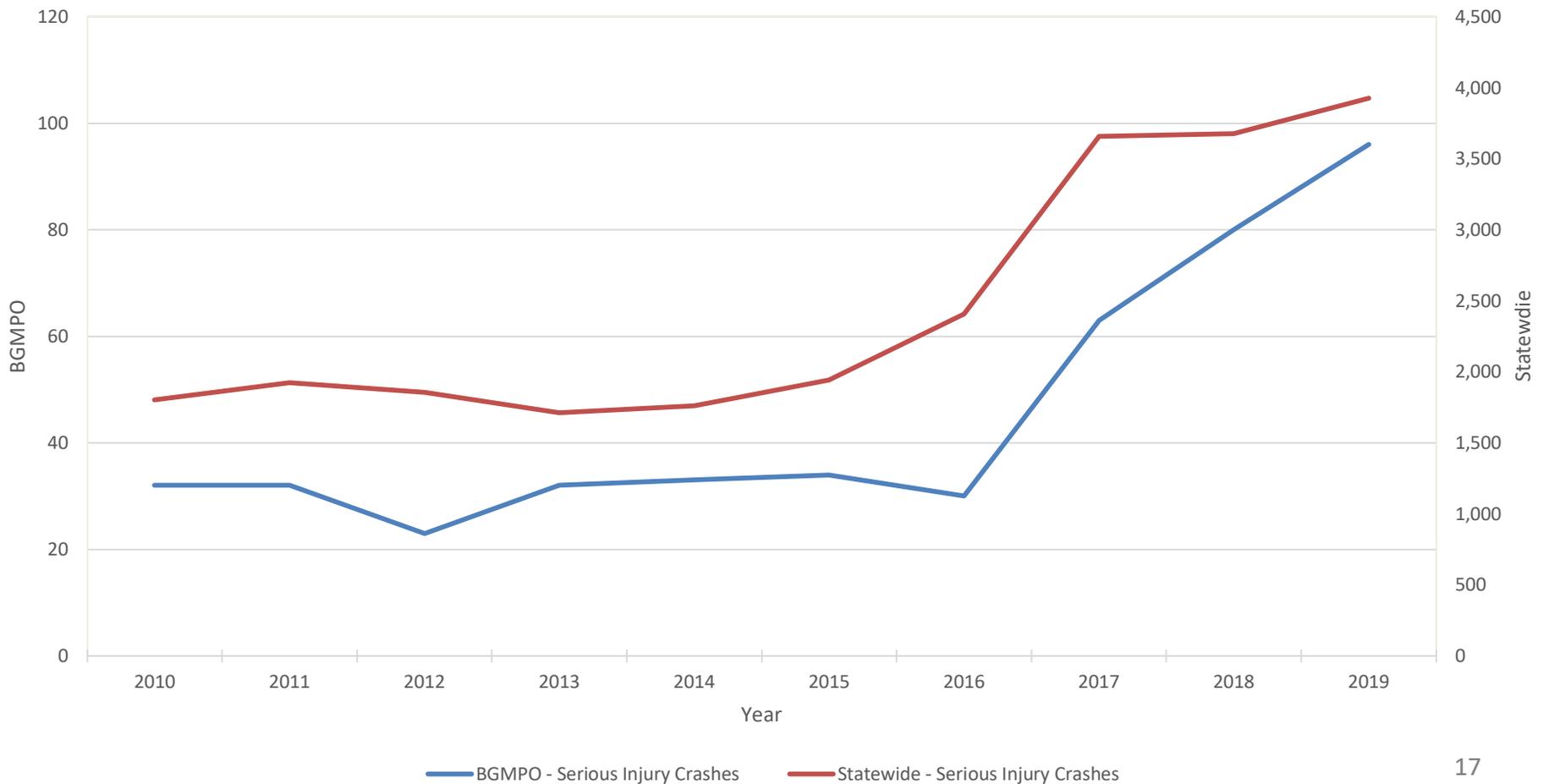
Fatal Crashes

Fatal Crashes by Year
2010 - 2019



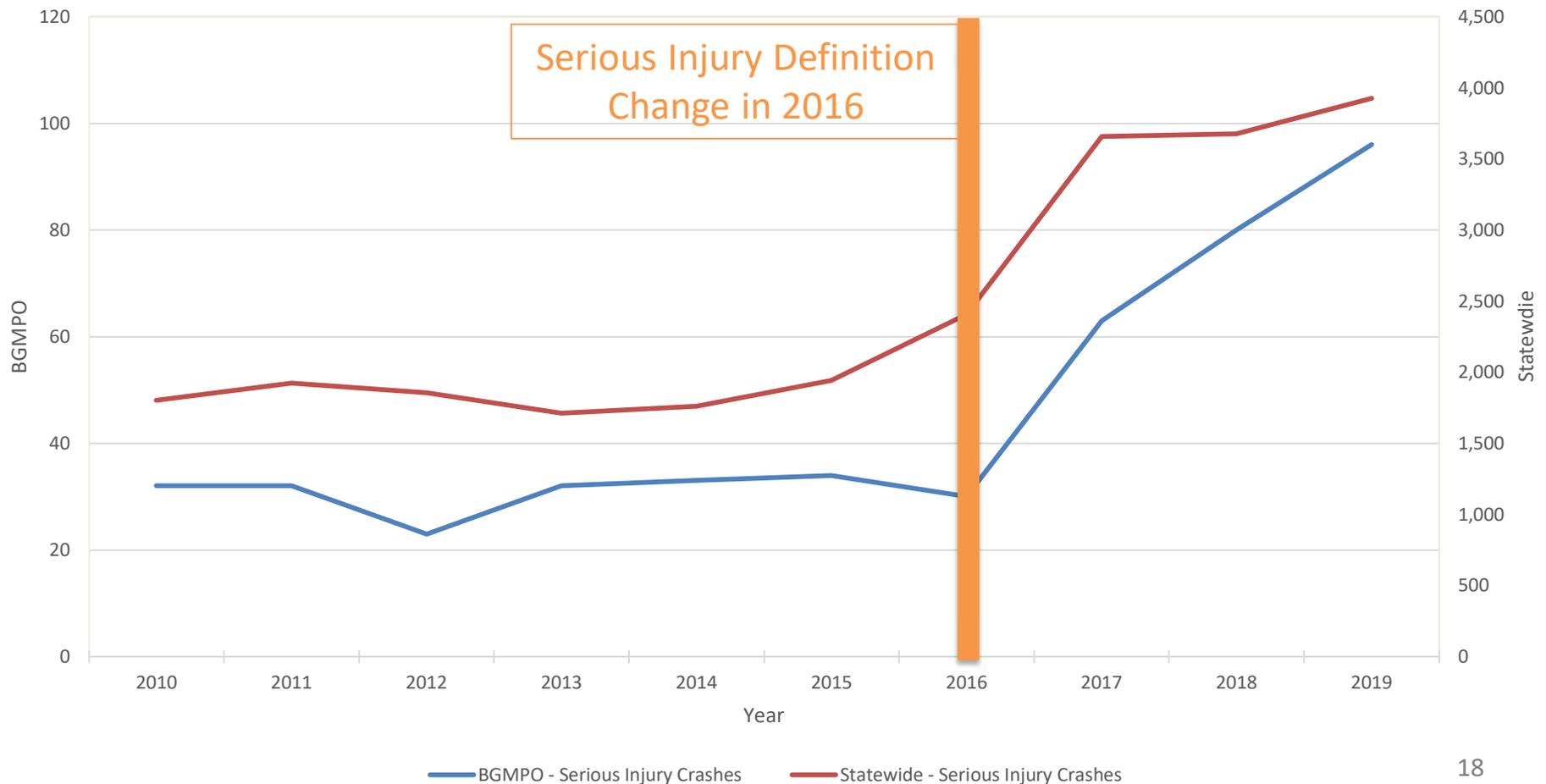
Serious Injury Crashes

Serious Injury Crashes by Year
2010 - 2019



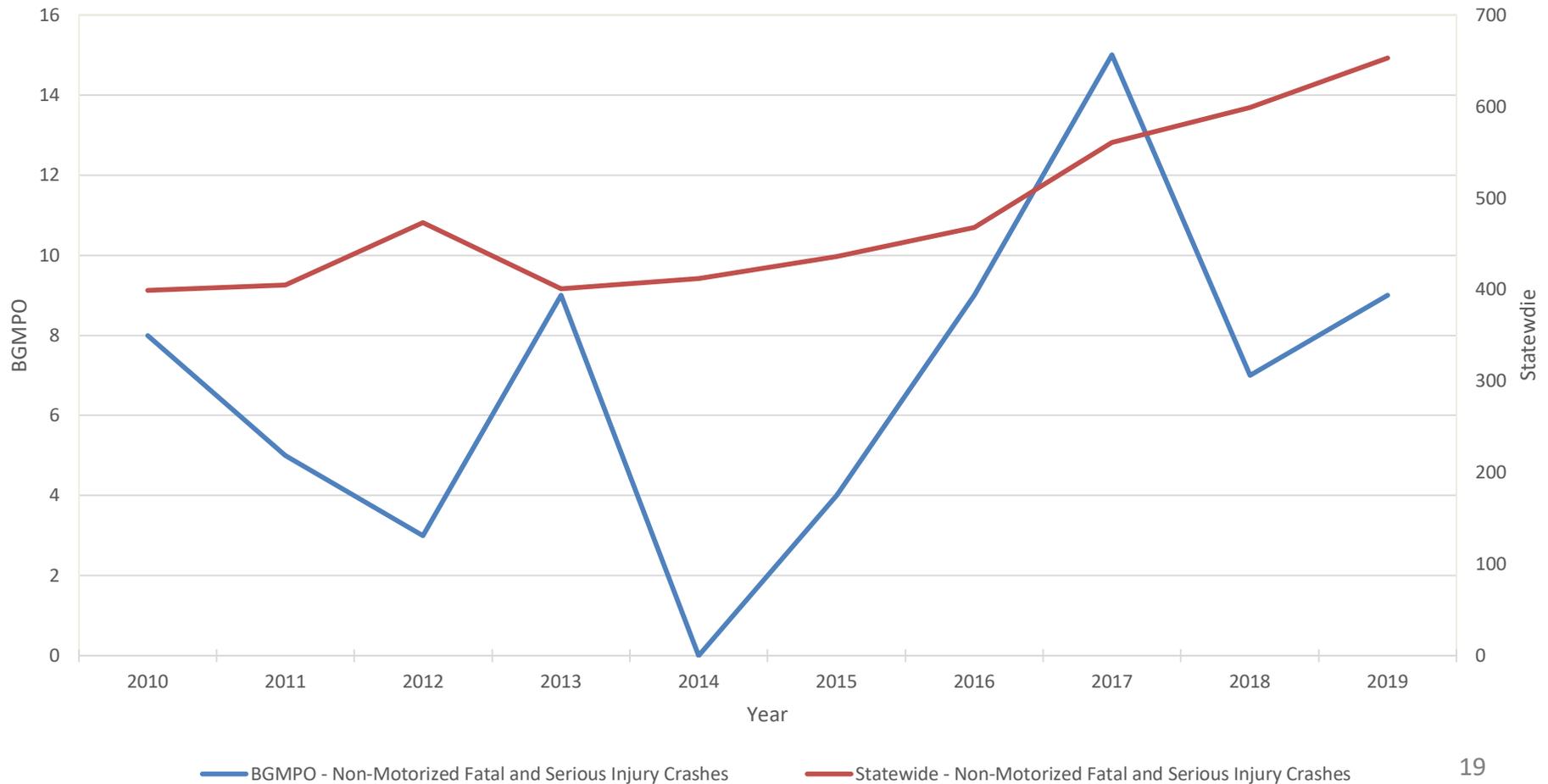
Serious Injury Crashes

Serious Injury Crashes by Year
2010 - 2019



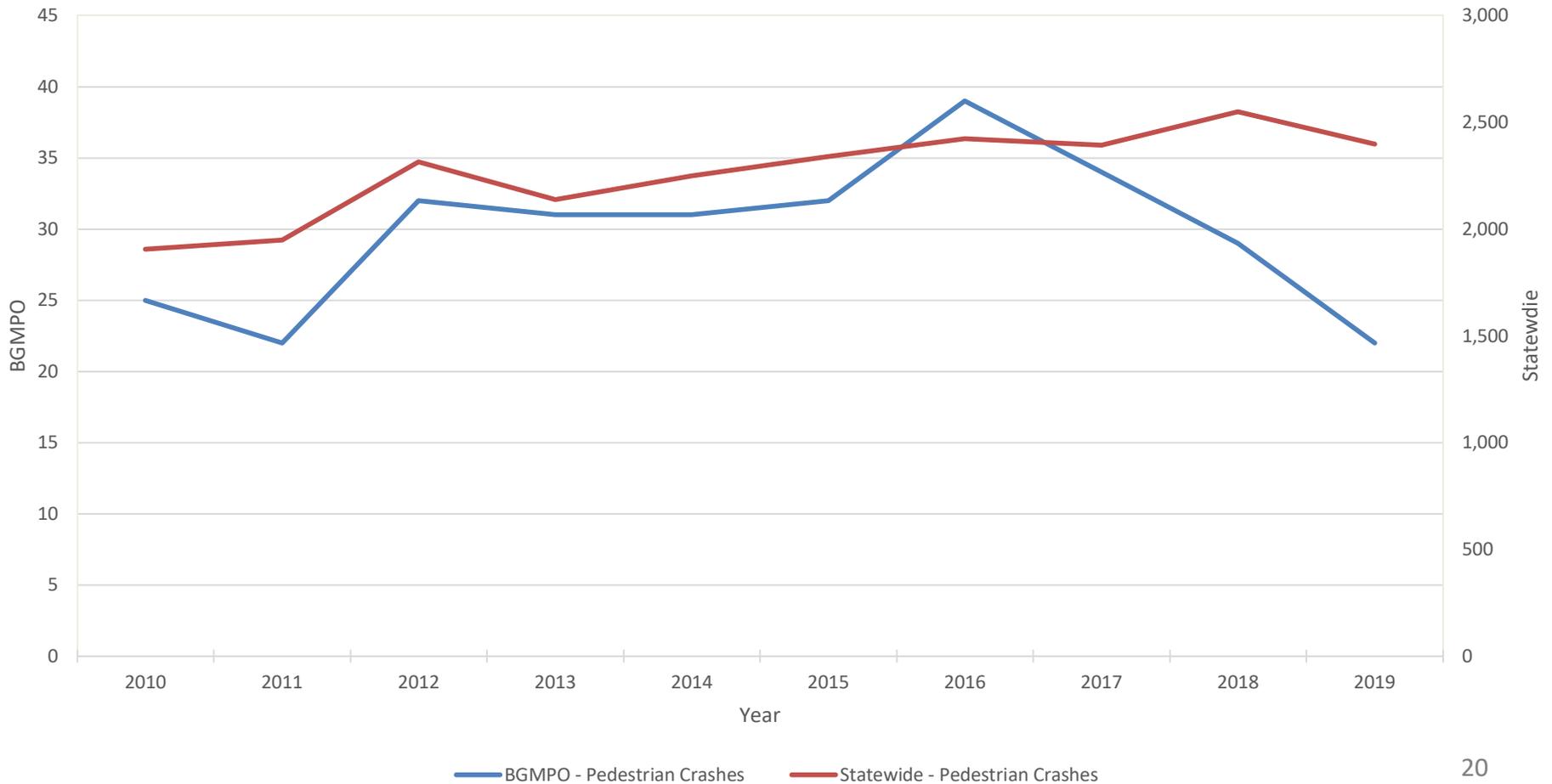
Non-Motorized Fatal and Serious Injury Crashes

Non-Motorized Fatal and Serious Injury Crashes by Year
2010 - 2019



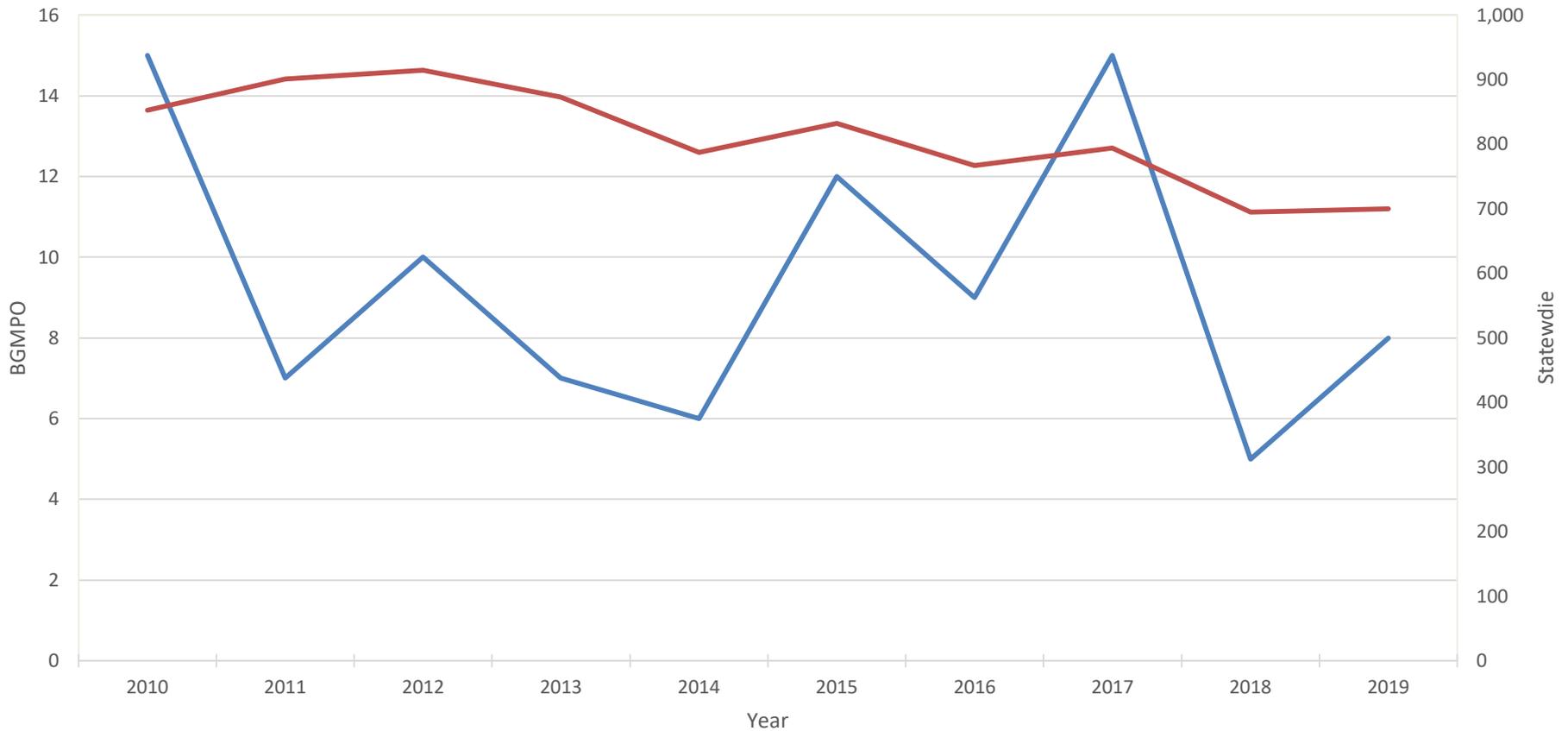
Pedestrian Crashes

Pedestrian Crashes by Year
2010 - 2019



Bicycle Crashes

Bicycle Crashes by Year
2010 - 2019



Breakdown by Municipality within the Burlington-Graham MPO (2010 – 2019)

Municipality	Total Crashes	Fatal Crashes	Serious Injury Crashes
Alamance	344	1	7
Burlington	19,642	98	302
Eli Whitney	13	0	0
Elon	1,074	6	11
Gibsonville	502	8	22
Graham	3,308	12	39
Green Level	61	0	0
Haw River	850	1	10
Mebane	3,002	8	26
Ossippee	63	0	0
Saxapahaw	18	0	0
Snow Camp	30	0	0
Swepsonville	125	0	1
Whitsett	311	1	3
Rural	14,379	46	34
<i>Total</i>	<i>43,722</i>	<i>181</i>	<i>455</i>

Overview

- Statewide Data Trends
- Burlington-Graham MPO Data Trends
- **Safety Performance Measures**

Safety Performance Measures - Background

- MAP-21 / FAST Act Rulemaking
 - Requires State DOTs and MPOs to set targets for 5 Highway Safety Improvement Program (HSIP) safety performance metrics
 - Final Rules published in the Federal Register March 2016; effective April 2016

HSIP Safety Targets	
1	Number of fatalities
2	Rate of fatalities
3	Number of serious injuries
4	Rate of serious injuries
5	Number of non-motorized fatalities and non-motorized serious injuries

- Targets:
 - Are based on 5 year rolling averages
 - Are for calendar years
 - Are established annually

Safety Performance Measures - Background

- Target reporting dates:
 - State: August 31st with annual HSIP report
 - MPO: February 27th

Safety Performance Measures - Background

- How are targets set?
 - Up to each State and MPO
 - MPO can adopt State methodology, or come up with their own

State Safety Performance Measures

- How were North Carolina State targets set?
 - North Carolina State Strategic Highway Safety Plan (<https://spatial.vhb.com/ncdotshsp/>)
 - Developed through collaborative efforts of diverse safety stakeholders
 - State, Regional, Local
 - Public and private partners
 - Education, enforcement, engineering, emergency services
 - Presents a collaborative approach for reducing fatalities and serious injuries on NC's roadways
 - Adopted goal of reducing fatalities and serious injuries by half by the year 2035, moving towards zero by 2050
 - Used this as the basis for State level target setting

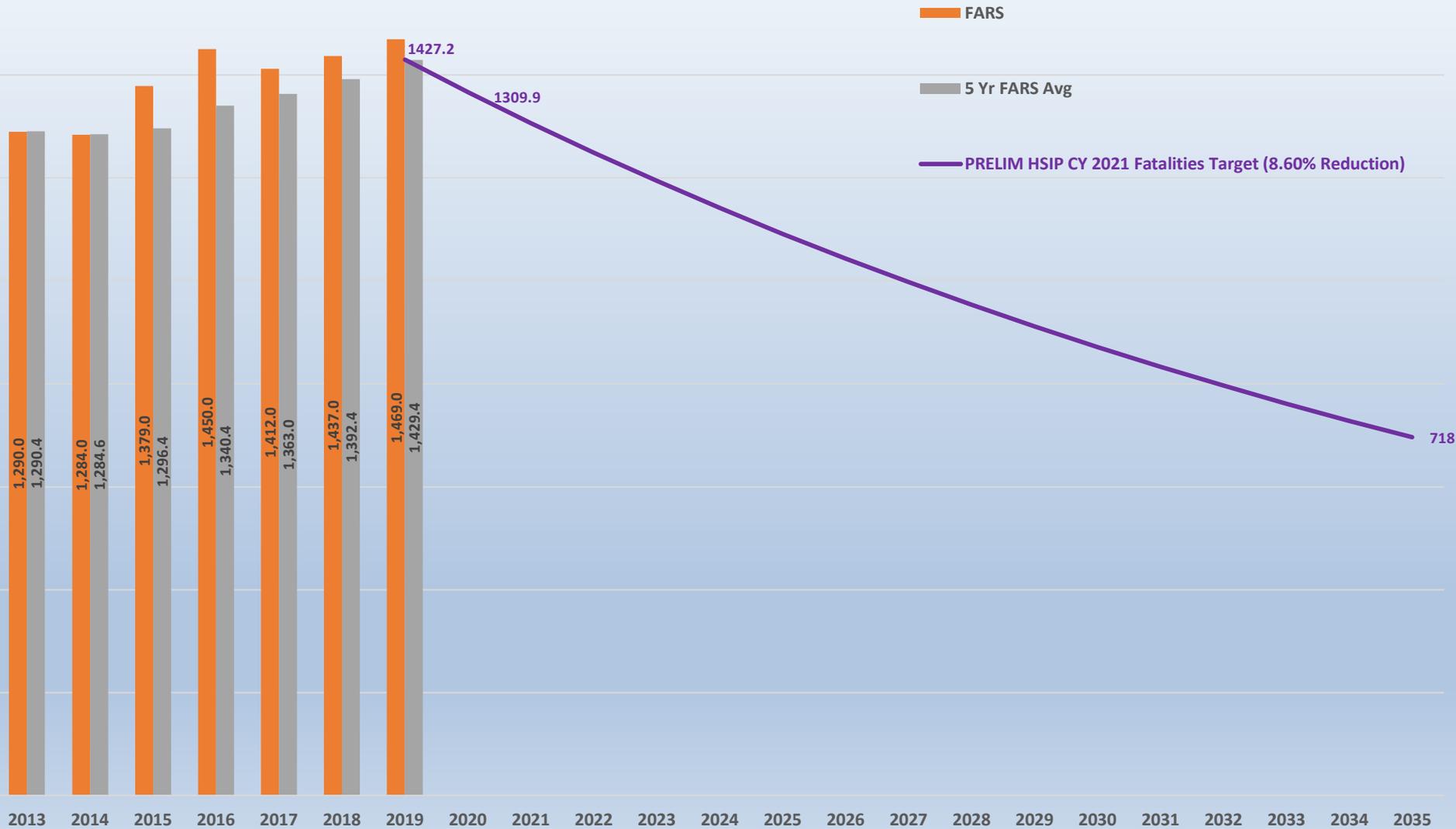


State Safety Performance Measures

- Goal: Reduce fatalities and serious injuries by half by 2035
- Target: Where do we need to be in 2021 (current target setting year) to reach this goal by 2035?
 - Number of fatalities in 2018 = 1,437
 - To reduce fatalities by 50% in 2035 = 718
 - 5 year rolling average of fatalities in 2019 = 1,427.2
 - 2021 fatality target: 1309.9

State Safety Performance Measures

Number of Fatalities Performance Measure



Safety Performance Measures – Assessment

- Assessment of Significant Progress
 - FHWA will determine whether a State DOT has met or made significant progress toward meeting HSIP safety targets
 - First FHWA assessment of NC's targets was made in early 2020 for CY 2018 targets
 - FHWA will not directly assess MPO progress towards meeting HSIP safety targets

Safety Performance Measures - Background

- Assessment of Significant Progress (cntd)
 - FHWA assessed NCDOT's CY 2018 safety targets in early 2020
 - **Based on FHWA's review, North Carolina has not met or made significant progress toward achieving its safety performance targets.**

Statewide

Performance Measures	5-year Rolling Averages			Target Achieved?	(Actual) Better than Baseline?	Met or Made Significant Progress?
	Target	Actual	Baseline			
	2014 - 2018	2014 - 2018	2012 - 2016			
Fatalities (5 Year Average)	1,207.3	1,392.4	1,340.4	No	No	No
Fatality Rate (5 Year Average)	1.114	1.206	1.226	No	Yes	
Serious Injuries (5 Year Average)	2,161.2	3,537.6	2,396.0	No	No	
Serious Injury Rate (5 Year Average)	1.988	3.028	2.184	No	No	
Non-motorized Fatalities and Serious Injuries (5 Year Average)	438.8	473.6	422.6	No	No	

Burlington-Graham MPO

Performance Measures	5-year Rolling Averages			Target Achieved?	(Actual) Better than Baseline?	Met or Made Significant Progress?
	Target	Actual	Baseline			
	2014 - 2018	2014 - 2018	2012 - 2016			
Fatalities (5 Year Average)	16.2	20.0	18.0	No	No	No
Fatality Rate (5 Year Average)	0.874	1.014	0.966	No	No	
Serious Injuries (5 Year Average)	31.3	57.0	34.8	No	No	
Serious Injury Rate (5 Year Average)	1.692	2.869	1.868	No	No	
Non-motorized Fatalities and Serious Injuries (5 Year Average)	4.8	7.2	5.2	No	No	

2021 Safety Performance Measures

State Safety Performance Measures

- 2021 North Carolina HSIP Safety Targets

Performance Measure	CY 2021
Number of Fatalities	1,309.9
Rate of Fatalities	1.105
Number of Serious Injuries	3,656.1
Rate of Serious Injuries	3.065
Number of Non-Motorized Fatalities & Serious Injuries	504.4

Burlington-Graham MPO Safety Performance Measures

- 2021 Burlington-Graham MPO HSIP Safety Measures

Safety Performance Measures					
Year	Fatalities	Fatality Rate	Serious Injuries	Serious Injury Rate	Non-motorized Fatalities and Serious Injuries
2008	14	0.801	42	2.403	5
2009	17	0.962	33	1.867	5
2010	21	1.179	43	2.414	8
2011	15	0.841	37	2.075	5
2012	14	0.782	28	1.563	3
2013	24	1.328	37	2.047	10
2014	12	0.654	36	1.963	0
2015	24	1.256	40	2.093	4
2016	16	0.812	33	1.676	9
2017	23	1.123	78	3.807	15
2018	25	1.226	98	4.808	8
2019	17	0.834	122	5.988	9

- 2021 Burlington-Graham MPO HSIP Safety Targets

- If adopting the State's methodology of reducing fatalities and serious injuries by half by the year 2035

Year	Fatalities (5 Year Average)	Fatality Rate (5 Year Average)	Serious Injuries (5 Year Average)	Serious Injury Rate (5 Year Average)	Non-motorized Fatalities and Serious Injuries (5 Year Average)
2008 - 2012	16.2	0.913	36.6	2.064	5.2
2009 - 2013	18.2	1.018	35.6	1.993	6.2
2010 - 2014	17.2	0.957	36.2	2.012	5.2
2011 - 2015	17.8	0.972	35.6	1.948	4.4
2012 - 2016	18.0	0.966	34.8	1.868	5.2
2013 - 2017	19.8	1.035	44.8	2.317	7.6
2014 - 2018	20.0	1.014	57.0	2.869	7.2
2015 - 2019	21.0	1.050	74.2	3.674	9.0
2021 Target*	19.7	0.982	70.4	3.485	8.1

Resources

Resources

- Metropolitan Planning Organization Safety Performance Measures Fact Sheet
 - https://safety.fhwa.dot.gov/hsip/spm/docs/mpo_factsheet.pdf
- FHWA Safety Target Setting Resources
 - https://safety.fhwa.dot.gov/hsip/spm/target-setting_resources.cfm
- North Carolina Strategic Highway Safety Plan
 - <https://spatial.vhb.com/ncdotshsp/>
- North Carolina Highway Safety Improvement Program (HSIP)
 - <https://connect.ncdot.gov/resources/safety/pages/nc-highway-safety-program-and-projects.aspx>

Resources

- MPO / RPO Crash Data

- <https://connect.ncdot.gov/resources/safety/Pages/Crash-Data.aspx>

Crash Data and Maps

Crash data, organized by type, ranking, overall cost, and maps and other resources for analysis.

Connect NCDOT
BUSINESS PARTNER RESOURCES

Doing Business | Bidding & Letting | Projects | **Resources** | Local Governments

Asset Management | Environmental | Geotechnical | GIS | Hydraulics | Materials & Tests | Photogrammetry | Specifications | Structures | **Traffic Safety**

Crash Data and Maps

Crash data, organized by type, ranking, overall cost, and maps and other resources for analysis.

Connect NCDOT > Resources > Traffic Safety > Crash Data and Maps

Crash Data

- ✓ Name
- Crash Type : City / County Ranking (43)
- Crash Type : County Crash Profiles (818)
- Crash Type : Crash Costs (19)
- Crash Type : Crash Facts by Year (56)
- Crash Type : Crash Rates (29)
- Crash Type : MPO / RPO Crash Data (19)**

Employee Directory
Staff contacts for Transportation Safety and Mobility.

Links
Work Zone Data
Work Zone Crashes by County

NC_PerformanceMeasuresData_2018Targets_Winston-SalemUrbanAreaMPO

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER GOVERNOR J. ERIC BOVETTE SECRETARY

DATE: September 11, 2020

TO: Elud De Jesus, AICP
Transportation Planner, Greenville Urban Area Metropolitan Planning Organization

FROM: Brian Mayhew, PE, CFM
State Traffic Safety Engineer
Transportation Mobility & Safety Division

SUBJECT: Safety Performance Measures - FHWA Assessment and 2021 Targets

Background

Effective April 14, 2016, the Federal Highway Administration (FHWA) established five highway safety performance measures in accord with regulations set forth in the Federal MAP-21 and FAST Act transportation funding bills. These performance measures are:

1. Number of fatalities;
2. Rate of fatalities per 100 million vehicle miles traveled;
3. Number of serious injuries;
4. Rate of serious injuries per 100 million vehicle miles traveled; and
5. Number of combined non-motorized fatalities and non-motorized serious injuries.

These targets are established annually, are based on 5-year rolling averages, and are for calendar years. North Carolina state targets are set in agreement with our Strategic Highway Safety Plan (SHSP) (<https://portal.srb.com/ncdot/shsp/>) goals. The SHSP goals are developed through collaborative efforts of a diverse group of stakeholders including state, regional, and local partners (including MPOs). The goal of the most recent (2019) SHSP is to reduce fatalities and serious injuries by half by 2035, moving towards zero by 2050.

North Carolina Safety Performance Target Achievement Determination

In early 2020, FHWA completed an assessment of target achievement for NCDOT's calendar year (CY) 2018 safety targets, based on the 5-year averages for 2014-2018 for each measure. As per 23 CFR 490.211(c)(2), a State Department of Transportation (DOT) has met or made significant

Measure	2014	2015	2016	2017	2018	2019	2020	2021	2022
Number of fatalities	1,234	1,187	1,140	1,093	1,046	1,000	954	908	862
Rate of fatalities per 100 million vehicle miles traveled	0.000123	0.000118	0.000114	0.000109	0.000104	0.000100	0.000095	0.000091	0.000086
Number of serious injuries	5,678	5,432	5,186	4,940	4,694	4,448	4,202	3,956	3,710
Rate of serious injuries per 100 million vehicle miles traveled	0.000568	0.000543	0.000519	0.000494	0.000469	0.000444	0.000420	0.000396	0.000371
Number of combined non-motorized fatalities and non-motorized serious injuries	1,234	1,187	1,140	1,093	1,046	1,000	954	908	862

Contact Information

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bmayhew@ncdot.gov

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Traffic Safety Unit
North Carolina Department of Transportation
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Endorsement of Targets for Safety Performance Measures Established By NCDOT

A motion was made by TAC Member _____ and seconded by TAC Member _____ for the adoption of the following resolution and upon being put to a vote was duly adopted.

WHEREAS, the Burlington – Graham Metropolitan Planning Organization (BGMPO) 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, the Highway Safety Improvement Program (HSIP) final rule (23 CFR Part 490) requires States to set targets for five safety performance measures annually; and,

WHEREAS, the North Carolina Department of Transportation (NCDOT) has established targets for five performance measures based on five year rolling averages for: (1) Number of Fatalities, (2) Rate of Fatalities per 100 million Vehicle Miles Traveled (VMT), (3) Number of Serious Injuries, (4) Rate of Serious Injuries per 100 million VMT, and (5) Number of Non-Motorized (bicycle and pedestrian) Fatalities and Non-motorized Serious Injuries; and,

WHEREAS, the NCDOT coordinated the establishment of safety targets with the 19 Metropolitan Planning Organizations (MPOs) in North Carolina continually through outreach conducted by NCDOT’s Mobility and Safety Group; and,

WHEREAS, the NCDOT officially establishes and reports the safety targets in the Highway Safety Improvement Program annual report by August 31, of each year; and,

WHEREAS, the MPO’s may establish safety targets 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 within 180 days of the State establishing and reporting its safety targets in the HSIP annual report.

NOW THEREFORE, BE IT RESOLVED, that the BGMPO agrees to plan and program projects that contribute toward the accomplishment of the State’s targets as *noted below for each of the aforementioned performance measures:*

North Carolina Calendar Year 2021 Safety Performance Targets	
<i>Performance Measures</i>	<i>CY 2021</i>
Number of Fatalities	1,309.9
Rate of Fatalities	1.105
Number of Serious Injuries	3,656.1
Rate of Serious Injuries	3.065
Number of Non-Motorized Fatalities & Serious Injuries	504.4

Now therefore, be it further resolved, that by approval of this resolution, an amendment is hereby made to the 2045 MTP adopted on June 16, 2020 by the Burlington – Graham MPO.

Date: _____

By: _____

TAC Chair

STATE of: North Carolina
COUNTY of: Alamance

I _____, Notary Public of _____ County, North Carolina do hereby certify that _____ personally appeared before me on the _____ day of _____ to affix his signature to the foregoing document.

Notary Public

My Commission Expires: _____

Highway Safety Program Update

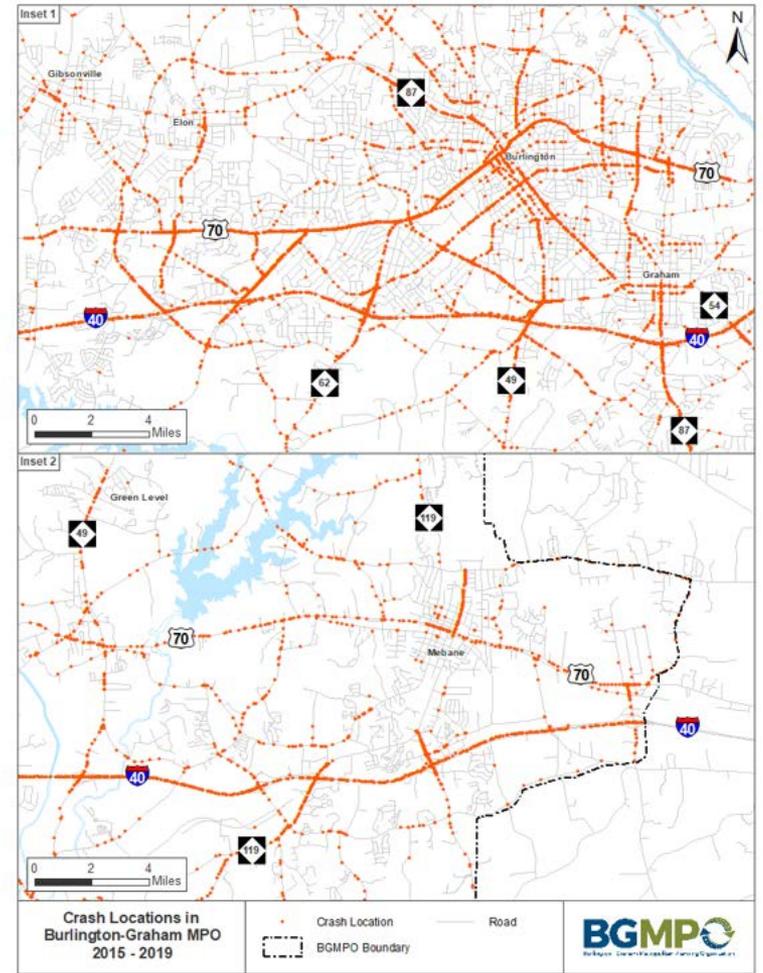
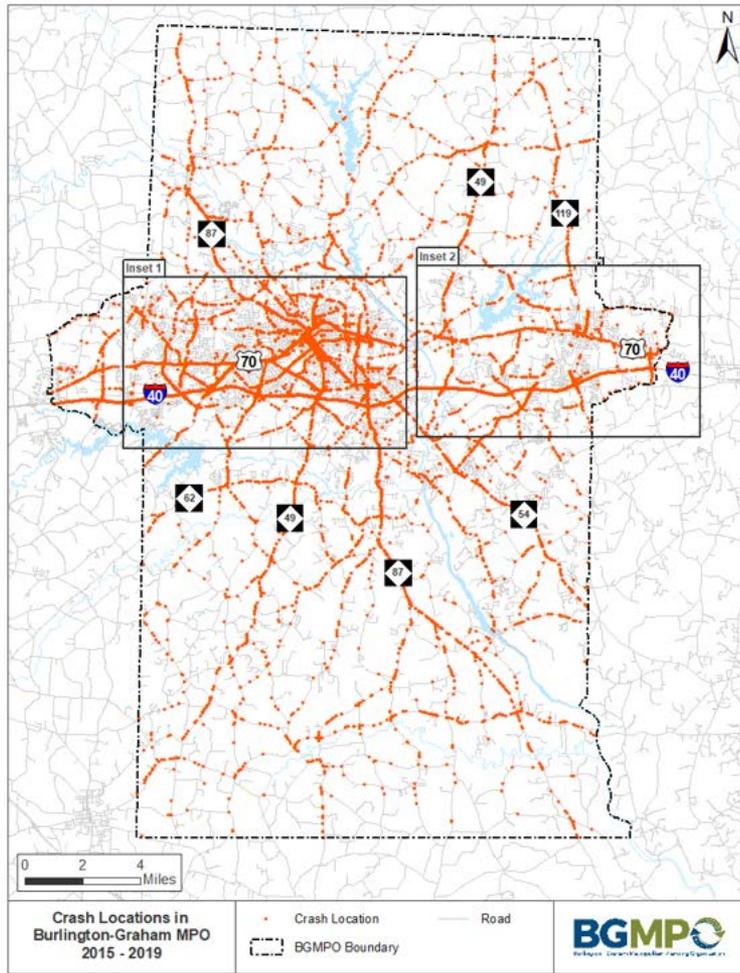
Blake Cashmore, Transportation Planner
Burlington-Graham MPO

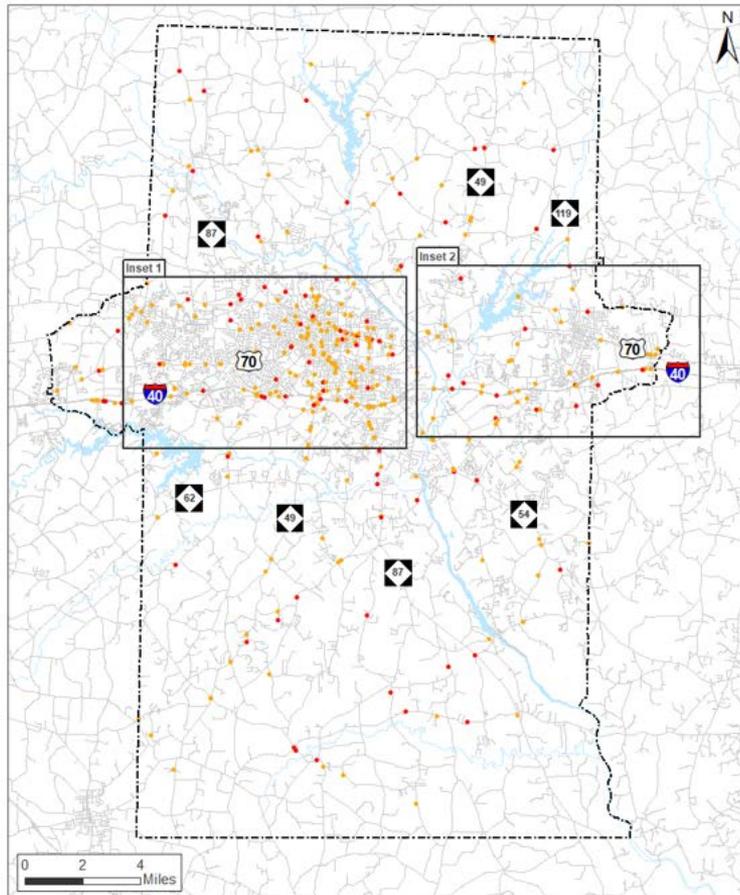


Order of Presentation

1. Preliminary Research
 - Crash Locations Data
 - Robeson County Vision Zero Program
2. Highway Safety Plan
3. Safety Subcommittee

Preliminary Research

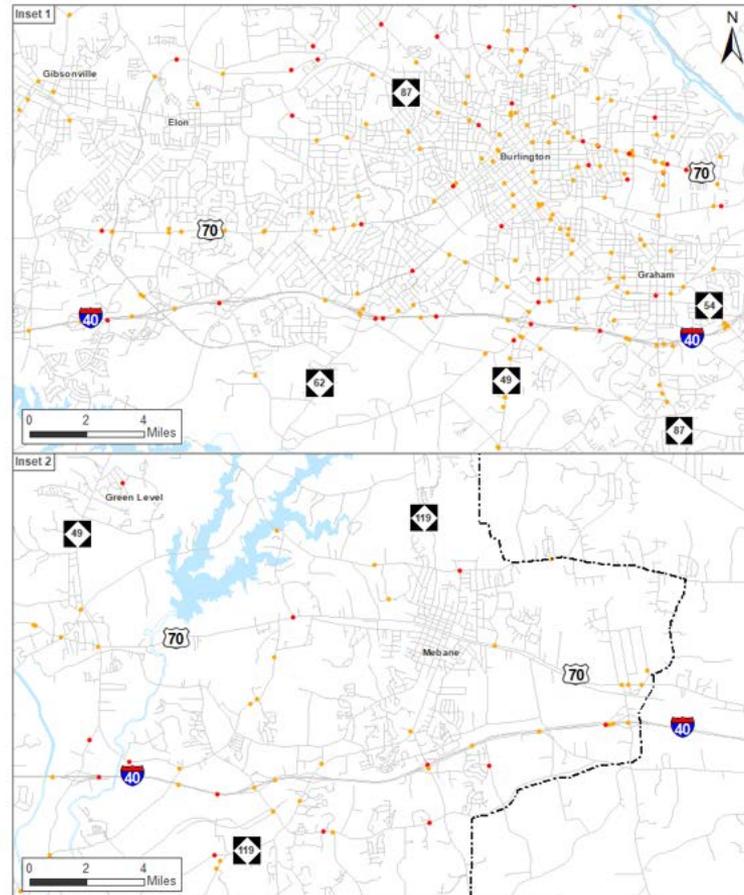




Traffic Fatalities and Serious Injuries in Burlington-Graham MPO 2015 - 2019

- Serious Injury
- Fatality

- BGMPo Boundary
- Road



Traffic Fatalities and Serious Injuries in Burlington-Graham MPO 2015 - 2019

- Serious Injury
- Fatality

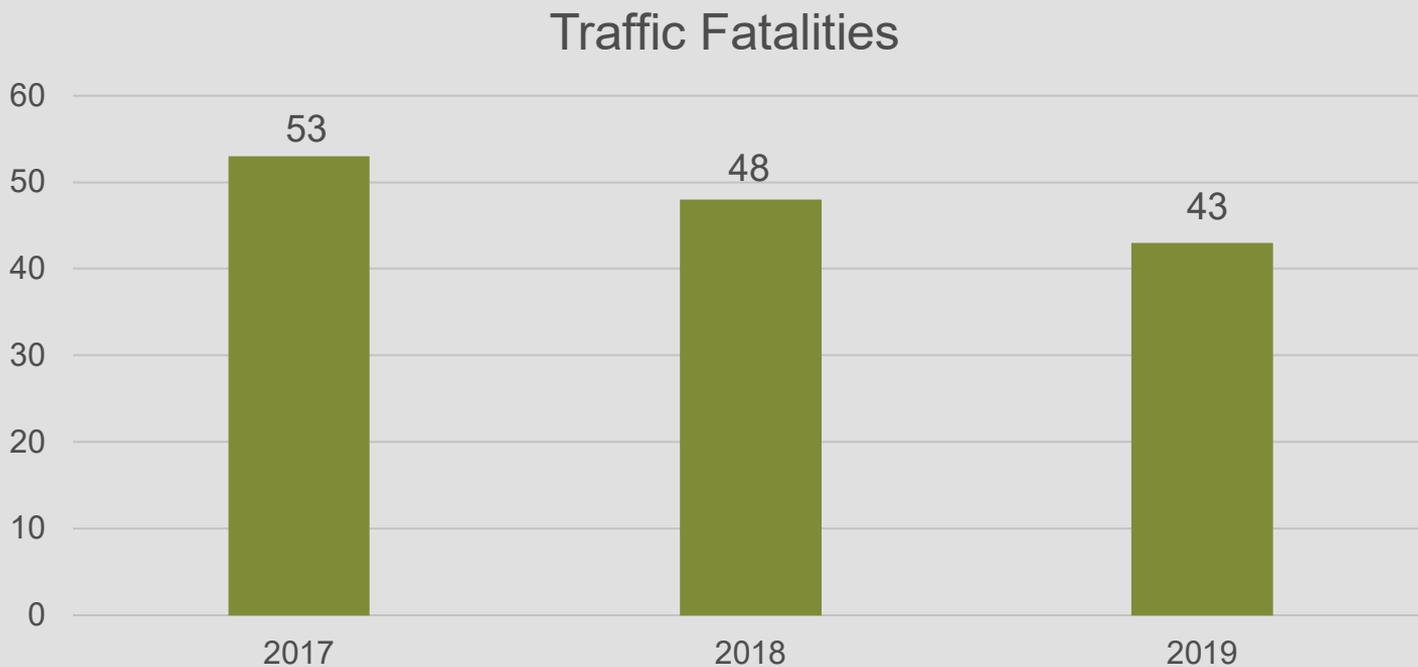
- BGMPo Boundary
- Road



Vision Zero Program in Robeson County, NC

1st	Ranking among North Carolina counties for number of fatal crashes per 1,000 registered vehicles (2015 – 2019)
1.2	Percentage of statewide population (2019)
2.8	Percentage of fatal vehicle crashes out of the statewide fatal crash total (2019)
53	Number of Robeson County traffic fatalities in 2017

Traffic Fatalities in Robeson County



Development of Highway Safety Plan

Plan Development

Estimated project cost:

- Total project cost: \$75,000
- 80% Fed/PL Funds (\$60,000)
- 20% Local/City of Burlington (\$15,000)

Plan Development

1. Project Start (August – September 2021)

- Preliminary data review and public engagement
- Vision framing

2. Data Collection and Analysis (October – December 2021)

- Review of NCDOT crash data
- Townhall meetings and GIS interactive map

3. Drafting Highway Safety Plan (January – February 2022)

- Adoption of safety targets
- Prioritized safety strategies

4. TCC/TAC Approval (March 2022)

Plan Development

Data analysis components:

- **Development of High -Injury Network (HIN)** : Top corridors and intersections for fatality/serious injury crashes in BGMPO.
- **Transit Safety Assessment** : Safety audit of all Link Transit and PART stops in the BGMPO.
- **Bike/Ped Safety Assessment** : Safety audit of bike/ped infrastructure along HIN corridors.
- **Equity Analysis**: Evaluation of traffic safety hazards among impoverished and/or minority communities.
- **Resiliency Assessment** : Identification of alternative safe routes in event of major corridor disruption.

Plan Development

Highway Safety Plan outcomes:

- Framework for a sustainable and continuous Highway Safety Program
- Adoption of BGMPO safety targets and goals
- List of recommended safety strategies
- List of prioritized projects
- Review of safety program/project funding sources

Safety Subcommittee

Safety Subcommittee

Purpose:

- Support the goals and activities of the Highway Safety Program
- Help evaluate safety performance
- Identify program stakeholders
- Provide feedback on RFP
- Participate in consultant selection process
- Review and recommend Highway Safety Plan to TCC/TAC

Safety Subcommittee

Members (10 total):

- 3 TAC members
- 3 TCC members
- Law enforcement representative
- NCDOT Division 7 representative
- NCDOT Traffic Safety Unit representative
- NCDOT Transportation Planning Division representative

Safety Subcommittee

Preliminary schedule:

- February 2020: Introductions, vision drafting and project planning
- March 2020: Review draft RFP for Highway Safety Plan
- May 2020: Meeting to review RFP responses and select project consultant
- August 2020: Meeting to kick-off Highway Safety Program
- December 2021: Meeting to review crash data analysis
- February 2022: Meeting to review draft Highway Safety Plan and recommend approval to TCC/TAC

Thank you. Questions?

Blake Cashmore, Transportation Planner

Burlington-Graham MPO

bcashmore@burlingtonnc.gov



Burlington - Graham Metropolitan Planning Organization

NCDOT PROJECTS LOCATED IN BGUMPO - UNDER DEVELOPMENT

TIP/WBS #	Description	Let/Start Date	Completion Date	Cost	Status	Project Lead
SS-4907BQ 44757.1.1 44757.2.1 44757.3.1	Intersection improvements (All Way Stop) at SR 1005 (Greensboro-Chapel Hill Road) at SR 2369 (Sylvan School Road) and SR 2371 (Pleasant Hill Road) in Snow Camp .	8/15/17	Aug. 2021	\$22,500 R/W \$153,000 CON	4-way stop installation and flasher completed 4/17/18, utility relocations complete, widening delayed to Spring 2021	Derek Dixon
SS-4907CK 48306.1.1 48306.3.1	Install all-way (4-way) stop at intersection of NC 62 at SR 2029/SR 2030 (Old NC 49). Upgrade existing overhead flasher to flash all-red on all intersection approaches.	7/11/19	Dec. 2020	\$110,000	No re-alignment, signs and flashers only, Construction complete	Dawn McPherson
48798	Installation of crosswalks and pedestrian signals and update curb ramps at the intersection of US 70 (South Church Street) and Edgewood Avenue (non-system) in Burlington .	Jun. 2021	Oct.2021	\$150,394	Planning and design activities underway	Dawn McPherson Derek Dixon
I-5711 50401.2.1 50401.3.1	Interchange improvements at I-40/I-85 and SR 1007 (Mebane Oaks Rd) in Mebane .	3/16/21	FY2023	\$13,100,000	ROW acquisition underway - 50% complete, ROW Certified w/delays	Laura Sutton
47786 SM-5707B 47903.2.1	Intersection improvements on SR 1007 (Mebane Oaks Rd) at SR 2126/2128 (Old Hillsborough Rd) south of Mebane . Improvements include addition of left and right turn lanes, radii widening, signal installation, resurfacing, and pavement markings.	Apr. 2021	Jun. 2021	\$898,500	Design complete, ROW acquisition underway - 90% complete with right of entry, Utility relocations pending	Chad Reimakoski Derek Dixon
SS-6007B 48887.1.1 48887.3.1	All-Way Stop installation at SR 1529 (Durham Street) and SR 1530 (Elmira Street)	Apr. 2021	Jun. 2021	\$32,400	Funds approved and released 9/11/19	Dawn Mcpherson
U-6010 47145.1.1 47145.2.1 47145.3.1	Intersection improvements at US 70 (South Church Street) and SR 1226/SR 1311 (University Drive) in Burlington	4/20/21	FY2023	\$8,400,000	Planning and design activities underway, ROW acquisition underway	Brian Ketner

NCDOT PROJECTS LOCATED IN BGUMPO - UNDER DEVELOPMENT

TIP/WBS #	Description	Let/Start Date	Completion Date	Cost	Status	Project Lead
SS-6007A 48886.1.1 48886.3.1	All-Way Stop installation with overhead flashers, and rumble strips installation at NC 49 and SR 1005 (West Greensboro Chapel Hill Road).	Jun. 2021	Oct. 2021	\$61,200	Funds approved and released 9/11/19	Dawn McPherson
B-5728 45684.1.1 45684.2.1 45684.3.1	Replace Bridge #112 over Reedy Fork Creek on NC87 in Ossipee	11/16/21	FY2024	\$6,200,000	Planning and design activities underway	Kevin Fischer
SS-6007G 49117.1.1 49117.3.1	Installation of overhead flasher on NC 49 at SR 1130 (Friendship Patterson Mill Road) south of Burlington .	Jun. 2022	Nov. 2022	\$9,900	Funds approved 3/5/20 and released 6/23/20	Dawn McPherson
SS-6007H 49118.1.1 49118.3.1	Installation of pedestrian countdown heads at two existing crosswalks at the intersection of NC 62 (Rauhut Street) and SR 1537 (Sharpe Road) north of Burlington .	Jun. 2022	Nov. 2022	\$20,700	Funds approved 3/5/20 and released 6/23/20	Dawn McPherson
W-5807B 48952.1.3 48952.2.3 48952.3.3	Installation of ADA curb ramps and pedestrian accessible signals on SR 1301 (Boone Station Drive) at SR 1301 (St. Marks Church Road) and Boone Station Drive (non-system) at Glidewell Road/Tiki Lane (non-system) in Burlington	10/20/22	FY2024	\$75,000	PE funds scheduled to be released 2/2/21	Dawn McPherson Chad Reimakoski
U-6017 47162.1.1 47162.2.1 47162.3.1	Intersection improvements at NC 54 (East Harden St.) and NC 49 (East Elm St.) in Graham	2/16/23	FY2025	\$2,500,000	Planning and design activities underway	Chad Reimakoski
U-5844 50234.1.1 50234.2.1 50234.3.1	Construct multi-lanes on NC62 from SR 1430 (Ramada Road) to US 70 (South Church Street) in Burlington	11/21/23	FY2026	\$9,000,000	Planning and design activities underway	Chad Reimakoski

NCDOT PROJECTS LOCATED IN BGUMPO - UNDER DEVELOPMENT

TIP/WBS #	Description	Let/Start Date	Completion Date	Cost	Status	Project Lead
U-6013 47158.1.4 47158.2.4 47158.3.4	Widen NC 119 to multi-lanes from SR 1981 (Trollingwood-Hawfields Rd)/ SR 2126 (Old Hillsborough Rd) to Lowes Blvd (non-system) in Mebane .	12/19/23	FY 2026	\$5,200,000	Planning and design activities underway	Brian Ketner
U-6014 47159.1.1 47159.2.1 47159.3.1	Widen SR 1716 (Graham-Hopedale Rd) to multi-lanes with Bicycle/Pedestrian accommodations from SR 1720 (West Hanover Rd) to Morningside Drive in Burlington	5/21/24	FY 2026	\$11,300,000	Planning and design activities underway, Includes EB-5882	Chad Reimakoski
U-6011 47146.1.1 47146.2.1 47146.3.1	Intersection improvements at US 70 (South Church Street) and SR 1158 (Huffman Mill Rd) in Burlington	8/20/24	FY2026	\$2,400,000	Planning and design activities underway	Brian Ketner
B-6052 48709.1.1 48709.2.1 48709.3.1	Replace bridge 68 over NCRR / Norfolk Southern Railroad on SR 1928 (Trollingwood Road) in Haw River	1/20/26	FY2027	\$2,500,000	PE funding approved 5/6/19	Kevin Fischer
I-6009 47962.1.1 47962.2.1 47962.3.1	Interchange improvements at I-40/I-85 and SR 1158 (Huffman Mill Road). Construct additional right turn lane on I-40 WB Ramp and improve operations at SR 1308 (Garden Road) intersection in Burlington	6/27/29	FY2031	\$936,000	PE funding approved 6/5/18	Brian Ketner
U-6009 47144.1.1 47144.2.1 47144.3.1	Widen and construct center turn lane on US70 (West Church St) from Tarleton Ave. to Fifth Street in Burlington	1/1/40	FY2040	\$6,337,000	Planning and design activities on hold	Chad Reimakoski
I-6059 48689.1.1 48689.2.1 48689.3.1	Interchange improvements at I-40/I-85 and SR 1981 (Trollingwood-Hawfields Road) in Mebane	1/1/40	FY2040	\$12,400,000	PE funding scheduled for 12/4/24	Laura Sutton

North Carolina Department of Transportation

Active Projects Under Construction - Alamance Co.

Contract Number	TIP Number	Location Description	Contractor Name	Resident Engineer	Contract Bid Amount	Availability Date	Completion Date	Work Start Date	Estimated Completion Date	Progress Schedule Percent	Completion Percent
C203676	B-5239	REPLACE BRIDGE #126 OVER MILL RACE AND BRIDGE #119 OVER HAW RIVER ON NC-87.	DANE CONSTRUCTION INC	Howell, Bobby J	\$4,786,122.27	3/15/2018	3/29/2020	3/15/2018	11/1/2020	100.00	99.95
C203844	U-3109A	NC-119 RELOCATION FROM I-40/85 TO SR-1921 (MEBANE ROGERS RD/ STAGE COACH RD).	THALLE CONSTRUCTION CO., INC.	Howell, Bobby J	\$45,389,069.36	6/26/2017	1/28/2021	8/3/2017	7/23/2021	99.00	73.82
C204106	U-3109B	NC-119 RELOCATION NORTH OF SR-1921 (MEBANE ROGERS RD) TO SOUTH OF SR-1918 (MRS WHITE RD).	THALLE CONSTRUCTION CO., INC.	Howell, Bobby J	\$8,151,660.80	8/27/2018	11/28/2020	10/4/2018	5/28/2021	100.00	62.91
C204111	U-6015	BURLINGTON - GRAHAM SIGNAL SYSTEM.	ALS OF NORTH CAROLINA LLC	Howell, Bobby J	\$7,938,392.20	10/29/2018	8/15/2021	2/11/2019	10/27/2021	74.90	40.03
DG00426		RESURFACE A PORTION OF NC 87 AND PORTIONS OF 3 SECONDARY ROADS	RILEY PAVING INC	Lorenz, PE, Kris	\$3,463,032.95	7/9/2018	11/1/2019	2/25/2020	12/31/2020	100.00	87.69
DG00432		RESURFACE A PORTION OF US 70 AND 6 SECONDARY ROADS IN ALAMANCE COUNTY AND A PORTION OF 1 SR IN GUILFORD CO.	RILEY PAVING INC	Howell, Bobby J	\$1,878,598.12	7/9/2018	11/1/2019	3/29/2019	10/31/2019	100.00	99.94
DG00445	R-5787BB W-5707A	INSTALLATION OF ADA COMPLIANT CURB RAMPS AT VARIOUS INTERSECTIONS	LITTLE MOUNTAIN BUILDERS OF CATAWBA COUNTY INC	Howell, Bobby J	\$319,319.80	6/25/2018	2/15/2020	8/6/2018	2/15/2020	100.00	92.94
DG00457	U-5752	INTERSECTION IMPROVEMENTS AT US 70 (CHURCH STREET) AND SR 1301 (ST. MARKS CHURCH ROAD)	SHARPE BROTHERS A DIVISION OF VECELLIO & GROGAN INC	Howell, Bobby J	\$1,790,372.74	9/4/2018	3/31/2020	10/23/2018	5/30/2020	100.00	99.90
DG00473	U-5843	INTERSECTION IMPROVEMENTS AT US 70 (CHURCH ST.) AND SR 1716 (GRAHAM-HOPEDALE RD)	P & S GRADING LLC	Howell, Bobby J	\$2,495,284.62	4/1/2019	4/1/2020	3/19/2019	11/30/2020	100.00	99.93
DG00477		RESURFACE US 70 (CHURCH ST.) FROM 5TH ST TO 380' W OF SR 1928 (JIMMY KERR RD.), US 70WB (FISHER ST.)FROM BEG OF SPLIT TO END OF SPLIT	RILEY PAVING INC	Howell, Bobby J	\$3,614,442.95	7/8/2019	10/30/2020	7/29/2019	10/30/2020	82.00	99.94
DG00479		MILL AND RESURFACE A PORTION OF NC 54 AND PORTIONS OF 9 SECONDARY ROADS	APAC - ATLANTIC INC THOMPSON ARTHUR DIVISION	Howell, Bobby J	\$2,142,415.27	6/17/2019	10/30/2020	6/26/2019	10/30/2020	90.00	99.84

What's Happening at PART



Piedmont Authority
for **Regional** Transportation

PART welcome's a new board chair

Each year the PART Board of Trustees Board officers are elected to oversee the business activities and provide policy directives for the regional government. An election was held in November and the new officers begin service in January 2021. The Board officers for 2021 are:

Chair - Marikay Abuzuaiter, Greensboro MPO chair, Greensboro City Council
Vice-chair - Fleming El-Amin, Forsyth County Board of County Commissioners
Secretary - Carolyn Coleman, Guilford County Board of County Commissioners
Treasurer - Kevin Austin, Yadkin County Board of County Commissioners



Chair Elect Marikay Abuzuaiter

Also at the November meeting, the Board thanked past-chair Dan Besse for his 7 years of service on the Board and 5 years as Chair. Mr. Besse is taking a break from public service as an elected official. He will always be remembered as a great champion for public transportation. Chair elect Marikay Abuzuaiter states, "I am truly honored to chair the 2021 PART Board of Trustees, realizing the importance of picking up where past chair, Winston-Salem City Council member Dan Besse, left off. PART offers exceptional opportunities to address regional transportation needs through innovation. I look forward to partnering with a host of member agencies to advance mobility for our residents and visitors." She becomes the fifth different chair in PART's 22 year history.

Scott Rhine, PART Executive Director, commented, "It is exciting to have our PART Board being led to achieve advancements with our mobility systems and services PART provides to the Region with excellent leadership and our Chairperson Abuzuaiter providing meaningful direction to our agency's mission and goal."

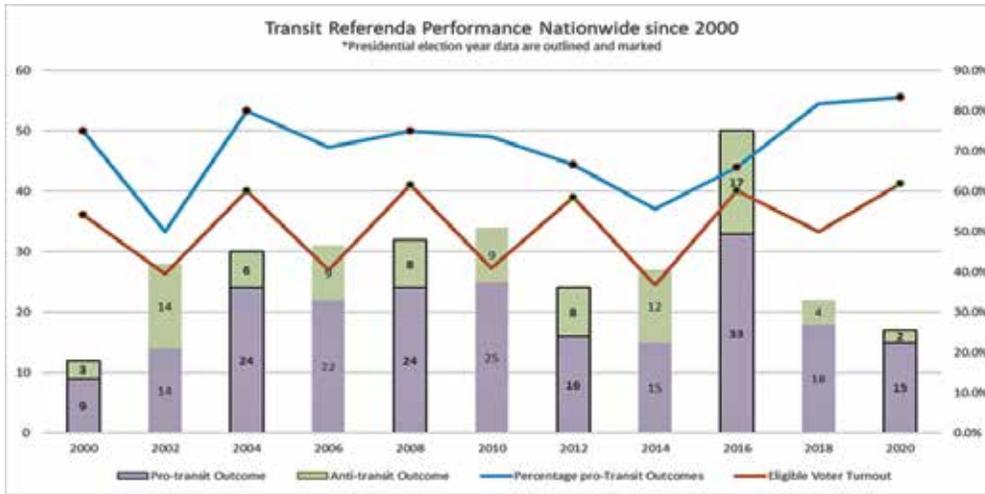
Transit referenda approval remains strong

On Tuesday November 3, 2020, in communities across the United States, voters continued to voice their overwhelming support for public transit by approving 15 out of 18 ballot measures in support of public transit. One measure is awaiting recount confirmation and two were not approved by voters. November election night's results add to the 32 public transit measures already passed by voters this year, bringing this year's total to 47 out of 51 wins for public transit, a 92% approval rate.

In spite of the huge changes and difficult challenges of the COVID-19 pandemic, voters have risen to support public transportation. Voters understand how important investments are to help our communities thrive. "Voters throughout the country once again overwhelmingly said 'yes' to public transit ballot measures that will expand and improve public transit, spur economic development and job creation, and connect communities and the people who live in them," said APTA President and CEO Paul P. Skoutelas. "Even during this pandemic and economic downturn, voters have spoken and

Continued on page 2

pledged their vote where they know it's needed – public transportation investment. These ballots once again underscore the importance of local, state, and federal partnerships in transportation investment.”



Source: APTA's Center for Transportation Excellence tracks and records all of the measures on its website.

Indeed, since 2000, 74% of all transit funding ballot measures in the United States have had pro-transit outcomes. This includes the ballot measure which failed to overturn Mecklenburg County's ½ cent sales tax. North Carolina's performance when it comes to transit funding is even better than the national total. Since 2000, NC voters have voted for transit in all nine (9) transit related funding measures that showed up on ballots—that's 100% pro-transit.

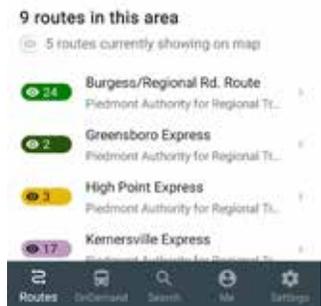
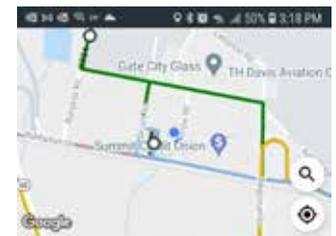
There's a new app in town

PART strives to provide public transportation passengers with tools to give them an excellent experience. All PART buses have bike racks and free Wi-Fi. Passengers can pay their fare on-line, then tap a smart card or their smart phone as they board. In 2015 PART provided its first tool to passengers - TransLoc. TransLoc provides real-time bus tracking online or through an app downloaded on to a smart phone. PART also uses TransLoc to provide service updates and delays. This tools also provides PART staff with bus performance data that is used to improve on-time performance.



TransLoc data was access 9,417 times by passengers during 2019. If you do not use TransLoc you might want to start. For the first time TransLoc has made major enhancement to its user experience. The older Rider app is going away on January 31, 2021. The new app to download is simply called TransLoc. The icon image is shown to the left. It is available on IOS and Android platforms. Whether you are a current user of the app or you are

ready to become a new fan – download the TransLoc app today. TransLoc is also available if you a GTA, High Point Transit, DCTS or LINK passenger, making your regional travel all the more easy.



New TransLoc screen shot.

“Slashing or eliminating the transit service that carried 34 million passengers a day in 2019 will cause a national mobility crisis in 2021, hobbling the economic recovery that a crisis-weary nation needs. Traffic is already returning to the nation's roads, and could easily reach pre-pandemic levels of gridlock unless checked. In cities across the country, streets will become impassable if even a fraction of former transit riders return to work and errands in cars.”

Source: Janette Sadik-Khan and Seth Solomonow. December 21, 2020. Public Transit Has to Come Back. https://www.theatlantic.com/ideas/archive/2020/12/public-transit-has-come-back/617435/?utm_source=feed

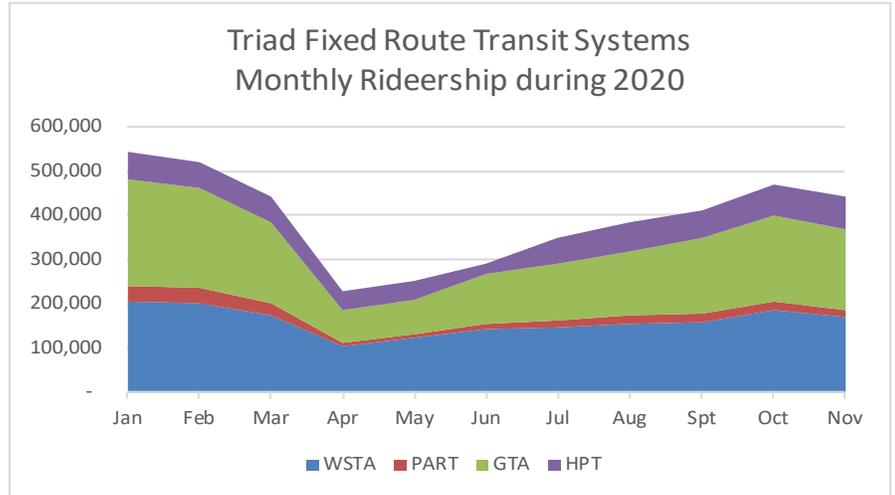
Safety and ridership during the pandemic

The pandemic has provided numerous disruptions to public transportation agencies and passengers across the Triad and the country. Providing an efficient, effective and safe service during this period has been challenging. Federal support through the CARES Act has played a vital role in keeping the buses running. One thing the pandemic has highlighted is that essential workers need public transportation. Ridership across the Triad's four urban fixed route systems remains about 19% below the January 2020 baseline.

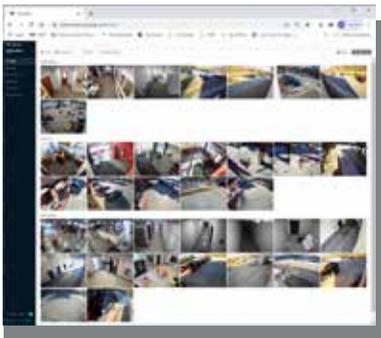
PART Express, a commuter express service, is 54% below the January baseline. Since May 2020 ridership slowly increased over the next five months. Historically the lowest ridership months are November and December. Matching that trend, ridership across the region dipped in November and we should not expect a significant rise again until February or March of 2021.

The decision to ride during the pandemic has been difficult for many and even discouraged by public health officials. However, transit systems across the country have taken extraordinary measures to keep drivers and the public safe. Systems have taken numerous steps from limiting the exchange of cash, speeding up boarding times, limiting capacity on the vehicles to requiring facial coverings. Then there have have been extreme measures like reducing service and discontinuing routes.

PART has made numerous service adjustments, required facial coverings and promoted contactless fare payment through Touchpass as its main safety strategies. But the effort continues as PART will be adding driver barriers to all its vehicles. This will add an additional layer of protection for our essential frontline employees - our bus operators.



Enhancing security on campus



Identifying the need to integrate a seamless video surveillance system across the PART campus, an RFP was released in October. The scope of work included the upgrade of both hardware and software for PART's administrative, maintenance, and Coble Transportation Center. Turnkey Technologies was awarded the contract and began work in November. Using Verkada's hybrid cloud cameras and Command software, installation was completed in half the time of traditional programs. The web-based platform allows for accessibility and monitoring from any browser. The camera's environmental sensors monitor and detect changes that occur across the facility. Most encouraging is the systems ability to expand and integrate remote facilities such as PARTs Park & Ride locations.

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