

# RTP2024

BERKSHIRE COUNTY REGIONAL TRANSPORTATION PLAN

**Long-Range Transportation Plan for the  
Berkshire Metropolitan Planning Organization  
FY 2024 - 2044**



2024  
Berkshire Regional Transportation Plan



Effective October 1, 2023

**Prepared by:**

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The Berkshire Metropolitan Planning Organization authorizes the Chairman to endorse the FFY 2024-2044 RTP document on their behalf

  
Gina Fiandaca  
MassDOT Secretary and CEO  
Chair, Berkshire MPO

7/25/23  
Date

## CERTIFICATION OF THE BERKSHIRE MPO TRANSPORTATION PLANNING PROCESS

### ***310 CMR 60.05: Global Warming Solutions Act Requirements for the Transportation Sector and the Massachusetts Department of Transportation***

This will certify that the Transportation Improvement Program and Air Quality Conformity Determination for the Berkshire Metropolitan Planning Organization (MPO) is in compliance with all applicable requirements in the State Regulation 310 CMR 60.05: Global Warming Solutions Act.

Requirements for the Transportation Sector and the Massachusetts Department of Transportation. The regulation requires MPO to:

1. 310 CMR 60.05, 5(a)(1): Evaluate and report the aggregate transportation GHG emissions and impacts of RTPs and TIPs;
2. 310 CMR 60.05, 5(a)(2): In consultation with MassDOT, develop and utilize procedures to prioritize and select projects in RTPs and TIPs based on factors that include aggregate transportation GHG emissions impacts;
3. 310 CMR 60.05, 5(a)(3): Quantify net transportation GHG emissions impacts resulting from the projects in RTPs and TIPs and certify in a statement included with RTPs and TIPs pursuant to 23 CFR Part 450 that the MPO has made efforts to minimize aggregate transportation GHG emissions impacts;
4. 310 CMR 60.05, 5(a)(4): Determine in consultation with the RPA that the appropriate planning assumptions used for transportation GHG emissions modeling are consistent with local land use policies, or that local authorities have made documented and credible commitments to establishing such consistency;
5. 310 CMR 60.05, 8(a)(2)(a): Develop RTPs and TIPs;
6. 310 CMR 60.05, 8(a)(2)(b): Ensure that RPAs are using appropriate planning assumptions;
7. 310 CMR 60.05, 8(a)(2)(c): Perform regional aggregate transportation GHG emissions analysis of RTPs and TIPs;
8. 310 CMR 60.05, 8(a)(2)(d): Calculate aggregate transportation GHG emissions for RTPs and TIPs;
9. 310 CMR 60.05, 8(a)(2)(e): Develop public consultation procedures for aggregate transportation GHG reporting and related GWSA requirements consistent with current and approved regional public participation plans;
10. 310 CMR 60.05, 8(c): Prior to making final endorsements on the RTPs, TIPs, STIPs, and projects included in these plans, MassDOT and the MPOs shall include the aggregate transportation GHG emission impact assessment in RTPs, TIPs, and STIPs and provide an opportunity for public review and comment on the RTPs, TIPs, and STIPs.
11. 310 CMR 60.05, 8(a)(1)(c): After a final GHG assessment has been made by MassDOT and the MPOs, Mass DOT and the MPOs shall submit MPO-endorsed RTPs, TIPs or projects within 30 days of endorsement to the Department for review of the GHG assessment.

This is to certify that the members of the Berkshire Metropolitan Planning Organization (MPO) hereby endorse the Regional Transportation Plan (RTP) for Federal Fiscal Years 2024-2044, in accordance with 23 CFR Part 450 Section 324 of the October 28, 1993 Final Rules for Statewide and Metropolitan Planning and 23 CFR Part 450 Section 326. This RTP consists entirely of projects that are either: A) exempt from an air quality conformity determination as specified in 40 CFR Parts 51 and 93; or B) have been previously analyzed in the conforming Regional Transportation Plan for the Berkshire Region. This RTP does not add significant, non-exempt projects, nor reprogram any existing regionally significant, non-exempt projects across analysis years. In accordance with Section 176(c) (4) of the Clean Air Act as amended in 1990 (42 U.S.C. 7251 (a)), the MPO for the Berkshire Region has conducted its review and hereby certifies that the RTP conforms with 40 CFR Parts 51 and 93 (August 15, 1997) and 310 CMR 60.3 (December 30, 1994).

  
Gina Fiandaca  
MassDOT Secretary and CEO  
Chair, Berkshire MPO

7/25/23  
Date

## **BERKSHIRE METROPOLITAN PLANNING ORGANIZATION CERTIFICATION OF THE 3C PLANNING PROCESS**

The Berkshire Metropolitan Planning Organization certifies that its conduct of the metropolitan transportation planning process complies with all applicable requirements, which are listed below, and that this process includes activities to support the development and implementation of the Regional Long-Range Transportation Plan and Air Quality Conformity Determination, the Transportation Improvement Program and Air Quality Conformity Determination, and the Unified Planning Work Program.

1. 23 USC 134, 49 USC 5303, and this subpart.
2. Sections 174 and 176 (c) and (d) of the Clean Air Act, as amended (42 USC 7504, 7506 (c) and (d) and 40 CFR part 93 and for applicable State Implementation Plan projects.
3. Title VI of the Civil Rights Act of 1964, as amended (42 USC 2000d-1) and 49 CFR Part 21.
4. 49 USC 5332, prohibiting discrimination on the basis of race, color, creed, national origin, sex, or age in employment or business opportunity.
5. Section 1101 (b) of the Fast Act (Pub. L. 114-357) and 49 CFR Part 26 regarding the involvement of disadvantaged business enterprises in U.S. DOT-funded projects.
6. 23 CFR part 230, regarding implementation of an equal employment opportunity program on Federal and Federal-aid highway construction contracts.
7. The provisions of the US DOT and of the Americans with Disabilities Act of 1990 (42 USC 12101 et seq.) and 49 CFR Parts 27, 37, and 38.
8. The Older Americans Act, as amended (42 USC 6101), prohibiting discrimination on the basis of age in programs or activities receiving federal financial assistance.
9. Section 324 of Title 23 USC regarding the prohibition of discrimination based on gender.
10. Section 504 of the Rehabilitation Act of 1973 (29 USC 794) and 49 CFR Part 27 regarding discrimination against individuals with disabilities.
11. Anti-lobbying restrictions found in 49 USC Part 20. No appropriated funds may be expended by a recipient to influence or attempt to influence an officer or employee of any agency, or a member of Congress in connection with the awarding of any federal contract.

  
\_\_\_\_\_  
Gina Fianduca  
MassDOT Secretary and CEO  
Chair, Berkshire MPO

7/25/23  
Date

## **NOTICE OF NONDISCRIMINATION RIGHTS AND PROTECTIONS TO BENEFICIARIES**

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The Berkshire Regional Planning Commission (BRPC) operates its programs, services, and activities in compliance with federal nondiscrimination laws including Title VI of the Civil Rights Act of 1964 (Title VI), the Civil Rights Restoration Act of 1987, and related statutes and regulations. Title VI prohibits discrimination in federally assisted programs and requires that no person in the United States of America shall, on the grounds of race, color, or national origin (including limited English proficiency), be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity receiving federal assistance. Related federal nondiscrimination laws administered by the Federal Highway Administration, the Federal Transit Administration, or both prohibit discrimination on the basis of age, sex, and disability. These protected categories are contemplated within MassDOT's Title VI Programs consistent with federal interpretation and administration. Additionally, BRPC provides meaningful access to its programs, services, and activities to individuals with limited English proficiency, in compliance with US Department of Transportation policy and guidance on federal Executive Order 13166.

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If you need help understanding this document because you do not speak English or have a disability which impacts your ability to read the text, please contact BRPC's Title VI Coordinator at (413) 442-1521 (voice) TTY: 711 or MA Relay System: 800-439-2370, 413-442-1523 (fax), or [info@berkshireplanning.org](mailto:info@berkshireplanning.org) (e-mail).

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### ***English***

If this information is needed in another language, please contact the BRPC's Title VI Coordinator at 413-442-1521.

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# List of Acronyms

<b>3-C</b> .....	Continuous, Cooperative, Comprehensive	<b>MBTA</b> .....	Massachusetts Bay Transportation Authority
<b>AADT</b> .....	Average Annual Daily Traffic	<b>MDF</b> .....	Most Determinant Factor
<b>AASHTO</b> .....	American Association of State Highway Transportation Officials	<b>MGL</b> .....	Massachusetts General Laws
<b>AAQ</b> .....	Ambient Air Quality	<b>MOU</b> .....	Memorandum of Understanding
<b>ACS</b> .....	American Community Survey	<b>MPO</b> .....	Metropolitan Planning Organization
<b>BEV</b> .....	Battery Electric Vehicle	<b>MPP</b> .....	Municipal Pavement Program
<b>BIL</b> .....	Bipartisan Infrastructure Law	<b>MTA</b> .....	(NY) Metropolitan Transit Authority
<b>BRI</b> .....	(Mass.) Short-span Bridge	<b>NAACC</b> .....	North Atlantic Aquatic Connectivity Collaborative
<b>BRPC</b> .....	Berkshire Regional Planning Commission	<b>NBI</b> .....	National Bridge Inventory
<b>BRCCOT</b> .....	Berkshire Regional Coordinating Council on Transportation	<b>NHS</b> .....	National Highway System
<b>BRTA</b> .....	Berkshire Regional Transit Authority	<b>NHTSA</b> .....	National Highway Transportation Safety Administration
<b>CDL</b> .....	Commercial Driver's License	<b>NOx</b> .....	Nitrogen Oxide
<b>CDTA</b> .....	Capital District Transit Authority	<b>NRSS</b> .....	National Roadway Safety Strategy
<b>CEDS</b> .....	Comprehensive Economic Development Strategy	<b>NYSDOT</b> .....	New York State Department of Transportation
<b>CHST</b> .....	Coordinated Human Services Transportation (Plan)	<b>OSRP</b> .....	Open Space and Recreation Plan
<b>CIP</b> .....	Capital Investment Plan	<b>OTS</b> .....	(MassDOT) Office of Traffic Safety
<b>CMR</b> .....	Code of Massachusetts Regulations	<b>PASER</b> .....	Pavement Asphalt Surface Evaluation Rating
<b>CO</b> .....	Carbon Monoxide	<b>PCI</b> .....	Pavement Condition Index
<b>COA</b> .....	Council on Aging	<b>PEL</b> .....	Planning and Environmental Linkages
<b>CRP</b> .....	Carbon Reduction Plan	<b>PM</b> .....	Performance Measure/Particulate Matter
<b>CSAP</b> .....	Comprehensive Safety Action Plan	<b>PSI</b> .....	Present Serviceability Index
<b>DOD</b> .....	Department of Defense	<b>PVPC</b> .....	Pioneer Valley Planning Commission
<b>DPU</b> .....	(Mass.) Department of Public Utilities	<b>PVTA</b> .....	Pioneer Valley Transit Authority
<b>EDDM</b> .....	Every Door Direct Mail	<b>ROUTES</b> .....	Rural Opportunities to Use Transportation for Economic Success
<b>EJ</b> .....	Environmental Justice	<b>ROW</b> .....	Right-of-Way
<b>EOEEA</b> .....	(Mass.) Executive Office of Energy and Environmental Affairs	<b>SHSP</b> .....	Strategic Highway Safety Plan
<b>EPA</b> .....	Environmental Protection Agency	<b>TIP</b> .....	Transportation Improvement Program
<b>EPDO</b> .....	Equivalent Property Damage Only	<b>TNC</b> .....	Transportation Network Company
<b>EST</b> .....	Empire State Trail	<b>UPWP</b> .....	Unified Planning Work Program
<b>EV</b> .....	Electric Vehicle	<b>UMDI</b> .....	UMass Donahue Institute
<b>FARS</b> .....	Fatality Analysis and Reporting System	<b>USDOT</b> .....	United States Department of Transportation
<b>FAST Act</b> .....	Fixing America's Surface Transportation Act	<b>REJ+</b> .....	Regional Environmental Justice Plus
<b>FHWA</b> .....	Federal Highway Administration	<b>RMV</b> .....	Registry of Motor Vehicles
<b>FLMA</b> .....	Federal Land Management Authority	<b>RPA</b> .....	Regional Planning Agency
<b>FTA</b> .....	Federal Transit Administration	<b>RRFB</b> .....	Rectangular Rapid-Flashing Beacon
<b>FRA</b> .....	Federal Railroad Administration	<b>RSA</b> .....	Road Safety Audit
<b>GHG</b> .....	Greenhouse Gas	<b>RTA</b> .....	Regional Transportation Authority
<b>GIS</b> .....	Geographic Information System	<b>RTP</b> .....	Regional Transportation Plan
<b>GPS</b> .....	Global Positioning System	<b>SRAHNET</b> .....	Strategic Highway Network
<b>HSIP</b> .....	Highway Safety Improvement Plan	<b>STRAP</b> .....	Small Town Road Assistance Program
<b>ITC</b> .....	Intermodal Transportation Center	<b>SWOT</b> .....	Strengths, Weaknesses, Opportunities, Threats
<b>ITE</b> .....	Institute of Transportation Engineers	<b>VOC</b> .....	Volatile Organic Compound
<b>JLT</b> .....	Jacob's Ladder Trail	<b>VMT</b> .....	Vehicle Miles Traveled
<b>LF</b> .....	Linear Feet	<b>VPI</b> .....	Virtual Public Involvement
<b>LRTP</b> .....	Long-Range Transportation Plan	<b>VRM</b> .....	Vehicle Revenue Miles
<b>MAP-21</b> .....	Moving Ahead for Progress in the 21st Century	<b>WNEG</b> .....	Western New England Greenway
<b>MassDOT</b> .....	Massachusetts Department of Transportation		

# Executive Summary

The Regional Transportation Plan (RTP) lays the groundwork for transportation investments in Berkshire County for the next twenty years. BRPC planning staff have spent the past year conducting outreach to stakeholders around the Berkshires, gathering the latest socioeconomic and demographic data for the region, and working with state and federal partners to craft an investment road map for our transportation assets.

This *RTP2024* document distills the data, feedback, and budgets that have been gathered, and recommends projects, programs, and planning staff activities that will complement and enhance Berkshire County's transportation infrastructure. The goals of this document are to address existing gaps identified in our infrastructure and to look to the future with recommendations to modernize our assets where most relevant.

This document is an update to the previous RTP, completed in 2020. Every four years, an updated Long Range Transportation Plan, such as this RTP, must be filed with the Federal Highway Administration (FHWA) in order for the region to remain eligible for federal highway dollars. Along with project and programmatic recommendations, the RTP also re-certifies the legal standing of the Berkshire Metropolitan Planning Organization (BMPO), a decision-making body comprised of elected officials or appointees from around the region.

Finally, the RTP document certifies the region's Air Quality standards conformity and demonstrates a fiscally constrained budget for transportation project planning. For more details about these about these items, along with where to find them in the RTP, please see **Chapter 2 - Planning Framework**.

## Vision Statement

This RTP will work to achieve a long-term vision for Berkshire County where:

- ◆ People of all ages and abilities can move around the region in a safe and efficient way.
- ◆ Our transportation infrastructure is safe, reliable, and in a state of good repair, with zero fatalities and serious injuries on our roads.

- ◆ City and town centers are vibrant places of activity with attractive choices available to walk, cycle, take transit or drive to destinations.
- ◆ Residents feel empowered to be good stewards of our transportation system and infrastructure.
- ◆ Planning and feedback between decision makers and stakeholders is continuous, comprehensive and cooperative.
- ◆ Opportunities to innovate are identified and pursued when possible.
- ◆ Our transportation system is sustainable: environmentally, economically, and socially.
- ◆ Natural habitats are protected and supported by our infrastructure and negative externalities are minimized to the greatest extent.
- ◆ The quality of our infrastructure is competitive and attractive for prospective residents, businesses and visitors, and supportive of our established neighborhoods and industries.

## Public Participation Insights

As part of the Public Participation goals of the RTP project, an online survey was published which invited Berkshire residents to share their views about the transportation system. Below are key data points gathered from aggregated survey responses, along with insights into what the data could mean for future planning work. Please see the **Public Engagement** section in **Chapter 2** for a more detailed breakdown of survey findings, and the **Appendix** for all survey data and comments that were gathered.

**Data:** Most respondents (85%) said they see themselves **living in the Berkshires** 5 years from now.

**Insight:** We are making investments for residents who are living here today and will be in the future.

**Data:** The highest proportion of respondents saw themselves living in a **detached house on a large lot** in the next stage of their life.

**Insight:** Rural lifestyles are prevalent in the Berkshires, and transportation planning should account for how to support that complementary infrastructure.



**Data:** A majority of respondents (88%) said they used a **personal vehicle** as their primary means of travel around the county.

**Insight:** Our region relies heavily on personal automobile ownership for mobility.

**Data:** Most respondents **did not indicate satisfaction** with various components of our transportation system.

**Insight:** There is work still to be done in the areas of maintenance, safety, accessibility, sustainability, active transportation, and transit.

**Data:** Lack of pedestrian infrastructure, lack of bike paths/lanes, and bus availability were the **top three challenges** selected by respondents.

**Insight:** There is regional appetite for a more connected pedestrian/bicycle network, and more availability of mass transportation.

**Data:** The **top-ranked budget priorities** from respondents were maintenance, improving public transit, safety, better bicycle/pedestrian facilities, and new technology enhancements

**Insight:** Planning for future transportation investments should include improvements to existing infrastructure while keeping pace with new technologies as they evolve.

**Data:** The most respondents (42%) desired to see **transit connections made to neighboring systems**, such as CDTA in Albany and PVRTA in the Pioneer Valley. 79 percent of respondents said they **would likely use regional rail** connections.

**Insight:** Investments in regional connections could be attractive to residents wanting to visit other amenities or services.

## Summary of Regional Socioeconomic Trends

***Our regional population is declining and is expected to continue doing so.***

Between 2000 and 2020, the Berkshire County population declined from 135,000 people to 129,000. By 2040 the population is projected to be around 122,500.

***Our population is aging but this trend will shift over the next two decades.***

Between 2020 and 2025, the age 65-69 age bracket is projected to contain the highest proportion of Berkshire County residents. By 2040, the

age 45-49 bracket is projected to be the highest proportion as the baby boom generation reaches its average life expectancy.

***Our households are less wealthy than those in other parts of the state.***

According to 2021 ACS estimates, the median household income for Berkshire County was \$60,749, compared to \$89,645 for Massachusetts as a whole. Berkshire County has a higher rate of child poverty within its population (15.6%) than of Massachusetts as a whole (12.6%).

## Transportation Financing

Over the planning horizon from 2024-2044, the Berkshire MPO is expected to have a budget of approximately \$737.6 million, otherwise known as the Regional Target. The investments that are recommended and programmed under this plan must demonstrate that they are “fiscally constrained” within this target funding. See **Chapter 5 - Fiscal Constraint Analysis** for more information about the types of funding available for transportation projects in Berkshire County.

## Long-Range Goals and Recommendations

The RTP2024 lists six major goals along with objectives recommended that will work to achieve those goals. See **Chapter 4 - Regional Goals and Recommendations** for a detailed breakdown of each of these items.

- 1. Maintain a State of Good Repair***
- 2. Foster Economic Development***
- 3. Enhance Transportation Services and Options***
- 4. Increase Safety and Security***
- 5. Promote Active Transportation***
- 6. Adapt for Sustainability and Resilience***

Within these goals and objectives are recommended projects, programs and activities that will advance efforts toward achieving them. Some are specific projects that have an estimated dollar figure applied, while others are more conceptual or consist of staff activities that may be placed on the Unified Planning Work Program (UPWP). All recommendations are summarized in the tables that follow.

## 2024 RTP Goals, Objectives and Recommendations

### Goal 1. Maintain a State of Good Repair

#### ► Objective 1a. Maintain Pavement Conditions

##### Recommended Projects:

Pittsfield: Route 7 (First Street) between East Street and Tyler Street: Approx. 3,800 LF of road reconstruction, bike/ped and ADA improvements, signal replacements, and other safety improvements. Estimated cost: \$6,000,000

Adams: Bucklin Road from Cheshire town line to Walling Road; East Road from Walling Road to Upper E Hoosac Street: Approx 2.1 miles of road rehabilitation. Estimated cost: \$1,100,000

Adams: West Road from Reservoir Road to Gould Road: Approx. 2.1 miles of road rehabilitation. Estimated cost: \$1,100,000

Lanesborough: Summer Street from Old Cheshire Road to Old State Road: Approx 6,500 LF of reconstruction. Estimated cost: \$563,000

Cheshire: Lanesboro Road from Lanesborough town line to Route 8: Approx 1.85 miles of road reconstruction. Estimated cost: \$849,000

Sheffield: County Road from Hickey Hill Road to New Marlborough line: Approx. 1.5 miles of reconstruction. Estimated cost: \$893,120

#### ► Objective 1b. Maintain Bridge Conditions

##### Recommended UPWP Activities:

Report yearly to MPO on changes in bridge condition

Assist communities in obtaining up to date bridge data

Coordinate with municipalities as needed in navigating bridge funding opportunities

#### ► Objective 1c. Maintain Culvert and Stream Crossing Conditions

##### Recommended UPWP Activities:

Continue gathering data for culverts that have yet to be assessed

Coordinate with local highway departments to prioritize culvert repairs or replacements, and find ways to streamline the process in concert with other road maintenance work

Encourage more towns to assess their stream crossings through the Municipal Vulnerability Preparedness (MVP) program

Research and share the latest culvert design standards that support adequate water flow and wildlife connectivity

### Goal 2. Foster Economic Development

#### ► Objective 2a. Grow Economic Opportunity through Transportation

##### Recommended Programs:

Bottleneck analysis and pavement management activities related to development of the Greylock Glen site

Intelligent Transportation System (ITS) feasibility study along Route 7 in central Pittsfield

Trip generation and demand study for large-scale regional attractions and events

Continued transition toward vehicle electrification and reducing VMTs through demand management and land use controls

#### ► Objective 2b. Develop Scenic Byways

##### Recommended UPWP Activities:

Continue staff support for JLTSB, Inc. activities such as board meetings and communication

Perform duties as Clerk of the board including meeting minutes, annual report filing, and outreach as necessary

Provide technical support where needed for transportation-related initiatives along the corridor

Explore a re-connection with PVPC for initiatives that take place in Hampden County

Monitor for funding opportunities that are within the capacity of the Scenic Byway team

Maintain relationships with MassDOT and the Scenic Byways liaison

Maintain relationships with Berkshire towns along the Byway to solicit monetary and in-kind contributions for Byway work efforts

#### ► Objective 2c. Support Freight and Airport Operation

##### Recommended Projects:

Pittsfield: Reconstruction of Hubbard Avenue rail overpass. Estimated cost: \$15-20 million

Pittsfield Municipal Airport: Major rehabilitation of taxiways. Estimated cost: \$11,000,000 (note: cannot be budgeted with highway funds)

Walter J. Koladza Airport: Rehabilitation of runway. Estimated cost: \$3,232,000. (note: cannot be budgeted with highway funds)

North Adams: Herriman-and-West Airport gateway enhancements at Route 2 intersection. Estimated cost: \$1 million

### Goal 3. Expand Public Transportation Services & Options

#### ► Objective 3a. Enhance Public Transportation

##### Recommended Projects:

- Implement microtransit service in additional areas of Berkshire County. Estimated cost: \$4,200,000
- North and South County transit hub locations, including vehicle storage and staging. Estimated cost: \$1,500,000 per hub
- Run fixed-route services at 30-minute headways for daytime hours. Estimated cost: \$24,000,000

##### Recommended Programs:

- Explore updated transit fare structure including free or reduced general fare
- Explore increasing BRTA Member Communities to towns in the region who have yet to join
- Explore fixed-route services to more towns in the region and connections to neighboring transit systems, such as via Route 143, Route 9, or Route 116 east to Franklin and Hampshire County.
- Develop a feasibility roadmap for fleet replacement using alternative-fuel vehicles as opportunities arise

#### ► Objective 3b. Expand Passenger Rail

##### Recommended Projects:

- Continued operation of the Berkshire Flyer service, with potential assimilation into East-West Rail service west of Pittsfield. Estimated cost: \$750,000 per year
- East-West passenger rail connection through Berkshire County. Estimated cost: \$2.4-4.6 billion statewide
- Expanded passenger facilities at the Intermodal Transportation Center including 1000-ft track siding and level boarding platform. Estimated cost: \$6 million
- Explore a pilot program of passenger rail service along the Housatonic Line from Pittsfield to Great Barrington. Estimated cost: \$62,400,000

##### Recommended UPWP Activities:

- Continue to participate in efforts to assess the feasibility of Northern Tier passenger rail to North Adams
- Study last-mile solutions to bring passengers to and from the ITC for rail transportation

#### ► Objective 3c. Coordinate Transportation Services

##### Recommended UPWP Activities:

- Implement recommendations of the CHST 2023 updates as resources become available
- Develop a dementia-friendly Berkshires framework for guiding public works projects and transportation improvements
- Explore the benefits of a regional mobility manager who could centralize mobility services for Berkshire constituents
- Continue convening the Berkshire Regional Coordinating Council on Transportation (BRCCOT) to assess accessibility needs in the region
- Pursue opportunities to leverage the MassDOT Community Transit Grant Program

### Goal 4. Increase Safety and Security

#### ► Objective 4a. Adopt the Safe Systems approach

##### Recommended UPWP Activities:

- Implement a Berkshire County Comprehensive Safety Action Plan
- Report yearly to MPO on changes to crash cluster and HSIP data
- Report yearly on Performance Measure 1 (PM1) data to MPO and MassDOT
- Assist in developing low-cost, expandable traffic calming solutions
- Assist in developing bylaws and guidelines which promote effective access management

#### ► Objective 4b. Continue roadway safety audits and countermeasures

##### Recommended UPWP Activities:

- Coordinate with Berkshire County towns with HSIP-eligible crash clusters to program further study and implement countermeasures
- Coordinate with MassDOT on RSAs (Road Safety Audits) to be conducted at top crash locations in the region
- Prioritize future year HSIP projects
- Identification of other potential safety improvements at crash clusters
- Explore modernization and updates to a regional crash database

#### ► Objective 4c. Standardize crash data

##### Recommended UPWP Activities:

- Analyze the rates of crash reporting and geocoding for Berkshire municipalities
- Conduct ongoing outreach with the MassDOT Office of Traffic Safety (OTS) and RMV
- Conduct ongoing outreach to town police and first response units in partnership with OTS

## Goal 5. Promote Active Transportation

### ► Objective 5a. Expand Bicycle infrastructure

#### Recommended Projects:

- Ashuwillticook Rail Trail extension: Hodges Cross Rd to Western Gateway Heritage State Park. Estimated cost: \$10,000,000
- North Adams: Adventure Trail from Williamstown town line to Western Gateway Heritage State Park. Estimated cost: \$15,000,000
- Great Barrington-Sheffield multi-use path. Estimated cost: \$16,000,000
- Williamstown Bike/Hike Path northern extension: Syndicate Road to VT state line. Estimated cost: \$3,200,000
- Lenox Bikeway Phase 1: Lee town line to Willow Creek Road. Estimated cost: \$3,500,000
- Lenox Bikeway Phase 2: Willow Creek Road to New Lenox road. Estimated cost: \$7,000,000
- Lenox/Pittsfield Connector Bikeway: New Lenox Road to Holmes Road. Estimated cost: \$4,000,000
- Lee Bikeway Phase 2: Downtown Lee to Lenox town line. Estimated cost: \$5,000,000

#### Recommended UPWP Activities:

- Continue to provide support to communities on Berkshire Bike Path implementation.
- Continue to provide technical support to Berkshire Bike Path Council (BBPC) and Bike North Berkshires including the provision of GIS-related services.
- Identify gaps in bicycle networks and develop a quality of service/bikability index
- Coordinate with MassDOT on U.S. Bike Route 7 signage installation
- Continue identifying priority areas for on-road cycling improvements and pedestrian enhancements, including best practices based on land use context
- Participate in Bay State Bike Week and Western New England Greenway initiatives
- Continue to support communities on general Complete Streets planning and implementation, including sidewalk inventories and walkability/bikability assessments
- Coordinate with MassDOT and municipalities on implementation of state Pedestrian and Bike Plans
- Maintain and report on an inventory of bicycle facilities in the region

### ► Objective 5b. Expand Pedestrian infrastructure

#### Recommended Projects:

- Route 7, Pittsfield: Approx. 3,200 LF of sidewalk to close the gap between MP 28.2 and MP 28.8 (Dan Fox Drive). Estimated cost: \$1,200,000
- Route 7/20, Lenox: Approx. 950 LF of sidewalk to connect isolated bus stops south of the intersection with New Lenox Road, including crosswalk upgrades at existing signal. Estimated cost: \$2,200,000
- Crane Avenue, Pittsfield: Approx. 550 LF of sidewalk and crosswalks in the vicinity of 898 Crane Ave, the Allendale Shopping Center, and the Ashuwillticook Rail Trail trailhead. Estimated cost: \$213,000
- East Street, Pittsfield: Construct a raised crossing at the existing crosswalk immediately east of Park Square. Estimated cost: \$100,000
- West Street/Government Drive, Pittsfield: Sidewalk extension or other pedestrian accommodations on Government Drive and College Way. Estimated cost: \$3,000,000

#### Recommended UPWP Activities:

- Conduct sidewalk inventory and gap analysis in Berkshire County
- Conduct walkshed analysis in Berkshire County
- Conduct an inventory of crosswalks in Berkshire County and categorize their current conditions and other characteristics
- Recommend priority crossings within the Urbanized Area and Urban Clusters in Berkshire County for enhancement
- Study how to utilize existing Roadsoft software to build the crosswalk inventory
- Collaborate with local Departments of Public Works and MassDOT to promulgate best practices for crosswalk installation in a standard way around the county

### ► Objective 5c. Expand Shared micromobility

#### Recommendations:

- Target: Implement or pilot shared micromobility options (i.e. bike share or e-scooter share) in the Phase 1 host cities identified.

## Goal 6. Adapt for Sustainability and Resilience

### ► Objective 6a. Highlight the Links Between Transportation and Public Health

#### Recommended UPWP Activities:

- Conduct a special study of land use and public health indicators in Berkshire County
- Consider how to incorporate addiction recovery and prevention into CHST initiatives
- Incorporate measurable public health goals into transportation planning activities
- Collaborate with Public Health and substance recovery organizations to learn how the transportation system can better serve those seeking recovery
- Document how the infrastructure in our region can be adapted to encourage more in-person connections, outdoor recreation, exercise, and public engagement

### ► Objective 6b. Promote Electrification

#### Recommended Programs:

- Establish a Berkshire regional EV charging station working group, including leadership from local governments and industries such as electrical distributors and suppliers
- Work with municipalities on installing publicly-accessible L2 charging infrastructure in parking areas such as curbsides and municipal parking lots
- Conduct a benefit-cost analysis of adapting local bus fleets such as BRTA and PPS to alternative-fuel buses

#### Recommended UPWP Activities:

- Work with regional employers and tourism destinations to assist with EV charging station awareness, planning, financing and implementation
- Continue collaboration with regional bus operators to pursue reductions in tailpipe emissions from transit vehicles.
- Establish a community liaison or partner to provide a starting-off point for interested stakeholders, communicate with local utility providers, and advocate to policy makers about the needs of Berkshire County to continue EV adoption
- Collaborate with designated Green Communities in Berkshire County to leverage Green Communities grant funding for the acquisition of EV charging equipment
- Encourage municipalities to adopt electric vehicle fleets

### ► Objective 6c. Mitigate Impacts on Natural Habitats

#### Recommended UPWP Activities:

- Continue collaboration with BRPC's Environmental Planning program as well as partners like Housatonic Valley Association, Greenagers, Mass Audubon, and the Nature Conservancy to identify key culverts and wildlife crossing points
- Advocate for increased funding and technical resources for culvert and stream crossing infrastructure that will be upgraded to modern stream crossing standards
- Continue updating the inventory of culverts in Berkshire County and their AOP ratings





# 1

# Introduction

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# Goals of the Regional Transportation Plan

This Regional Transportation Plan (RTP) is one of three Certification Documents for the Berkshire Metropolitan Planning Organization (MPO). In order to demonstrate that the Berkshire Region is planning its transportation network in a continuous, cooperative, and comprehensive manner, the organization publishes these documents for the public and for regulators to review.

Below are the overall goals of the RTP and summaries on what they intend to accomplish. Each goal and objective will be incorporated into planning products such as the Transportation Improvement Program (TIP) or the Unified Planning Work Program (UPWP). In **Chapter 4**, each objective will be broken out into project or policy recommendations, as well as planning staff activities related to achieving that goal.

## **MAINTAIN A STATE OF GOOD REPAIR**

The maintenance of our existing transportation infrastructure and services is a core function of our local government. Properly maintained infrastructure leads to a reliable transportation system where all people can get around with safety, predictability and dignity. Many of the recommended projects in this plan address maintenance and enhancement of our existing transportation assets.

## **FOSTER ECONOMIC DEVELOPMENT**

Transportation is a key influencer of economic opportunity for residential, commercial, and industrial sectors. This plan recommends investments in getting residents better connected with regional employers, as well as investing in infrastructure that promotes spending in the region, such as our scenic byways, highways, and airports.

## **ENHANCE PUBLIC TRANSPORTATION SERVICES AND OPTIONS**

Mass transit is an essential component of any regional transportation system. It is an efficient way of moving many people between points of interest. There are challenges that come with implementing transit well in a rural area. The funding mechanisms by which transit agencies are largely supported do not cover the full needs of the region. Agencies like the Berkshire Regional Transit Authority (BRTA), Amtrak, and regional service providers are

leveraging innovations of the 21st century to help make transit more competitive despite these challenges, and they are helping to reduce the transportation sector's greenhouse gas emissions and make Berkshire County accessible to all.

## **INCREASE SAFETY AND SECURITY**

For the past decade, traffic fatalities and serious injuries have been rising in the United States, after dropping dramatically beginning in the 1970s. As other industrialized nations worldwide have been continuing to reduce their traffic casualties, North America has frustratingly moved in the opposite direction. The factors contributing to this trend are complex. This plan recommends an all-of-government Safe Systems roll-out and targeted investment in addressing known safety issues via a Comprehensive Safety Action Plan.

## **PROMOTE ACTIVE TRANSPORTATION**

Active transportation is an important component of the sustainability of any transportation network. Infrastructure for active transportation is generally less costly than for heavy traffic. Transportation via active means produces less greenhouse gas emission than heavy modes. Finally, active transportation can build a greater degree of community and social cohesion and investment when implemented as a wide-reaching network. An ongoing goal of the region is to complete the Berkshire Bike Path. Local investments in city and town center pedestrian and bike infrastructure will also encourage a greater mix of trip modes.

## **ADAPT FOR SUSTAINABILITY AND RESILIENCE**

A sustainable system is more than being "green." It is ensuring that the needs of the future are accounted for in planning happening today. It is ensuring that our air, water and soil are not compromised to the detriment of the next generation, which is a stark reality for many longtime Berkshire County residents. Reducing greenhouse gas emission is one important component of planning for sustainability. Reducing the impact of our infrastructure on natural habitats and ecosystems via stormwater best management practices, reducing paved surfaces, providing wildlife linkages, and electrifying our modes of travel are all urgent needs that should be addressed over the next twenty years.



# Federal and State Planning Priorities

Coordination with State and Federal partners is an integral component of a comprehensive transportation plan. Below are the eight emphasis areas that the Federal Highway Administration recommends for regions to incorporate where possible into their Long Range Transportation Plans, followed by MassDOT emphasis areas for the Commonwealth's transportation network.

## FEDERAL PLANNING EMPHASIS AREAS

### *Tackling the Climate Crisis - Transition to a Clean Energy, Resilient Future*

Federal Highway Administration (FHWA) divisions and Federal Transit Administration (FTA) regional offices should work with State departments of transportation (State DOT), metropolitan planning organizations (MPO), and providers of public transportation to ensure that our transportation plans and infrastructure investments help achieve the national greenhouse gas reduction goals of 50-52 percent below 2005 levels by 2030, and net-zero emissions by 2050, and increase resilience to extreme weather events and other disasters resulting from the increasing effects of climate change.

### *Equity and Justice<sup>40</sup> in Transportation Planning*

FHWA encourages the use of strategies that: (1) improve infrastructure for non-motorized travel, public transportation access, and increased public transportation service in underserved communities; (2) plan for the safety of all road users, particularly those on arterials, through infrastructure improvements and advanced speed management; (3) reduce single-occupancy vehicle travel and associated air pollution in communities near high-volume corridors; (4) offer reduced public transportation fares as appropriate; (5) target demand-response service towards communities with higher concentrations of older adults and those with poor access to essential services; and (6) consider equitable and sustainable practices while developing transit-oriented development including affordable housing strategies and consideration of environmental justice populations.

### *Complete Streets*

A complete street is safe, and feels safe, for

everyone using the street. FHWA and FTA seek to help Federal aid recipients plan, develop, and operate streets and networks that prioritize safety, comfort, and access to destinations for people who use the street network, including pedestrians, bicyclists, transit riders, micro-mobility users, freight delivery services, and motorists. The goal is to provide an equitable and safe transportation network for travelers of all ages and abilities, including those from marginalized communities facing historic disinvestment. This vision is not achieved through a one-size-fits-all solution – each complete street is unique and developed to best serve its community context and its primary role in the network.

### *Public Involvement*

Early, effective, and continuous public involvement brings diverse viewpoints into the decision-making process. Decision makers are encouraged to increase meaningful public involvement in transportation planning by integrating Virtual Public Involvement (VPI) tools into the overall public involvement approach while ensuring continued public participation by individuals without access to computers and mobile devices. The use of VPI broadens the reach of information to the public and makes participation more convenient and affordable to greater numbers of people. Virtual tools provide increased transparency and access to transportation planning activities and decision-making processes. Many virtual tools also provide information in visual and interactive formats that enhance public and stakeholder understanding of proposed plans, programs, and projects. Increasing participation earlier in the process can reduce project delays and lower staff time and costs.

### *Strategic Highway Network (STRAHNET)/ U.S. Dept of Defense Coordination*

Regional and state agencies are encouraged to coordinate with representatives from DOD in the transportation planning and project programming process on infrastructure and connectivity needs for STRAHNET routes and other public roads that connect to DOD facilities. According to the Declaration of Policy in 23 U.S.C. 101(b)(1), it is in the national interest to accelerate construction of the Federal-aid highway system, including the Dwight D. Eisenhower National System of Interstate and Defense Highways, because many of the highways (or portions of the highways) are inadequate to meet the needs of national and civil defense. The

DOD's facilities include military bases, ports, and depots. The road networks that provide access and connections to these facilities are essential to national security. The 64,200-mile STRAHNET system consists of public highways that provide access, continuity, and emergency transportation of personnel and equipment in times of peace and war. It includes the entire 48,482 miles of the Dwight D. Eisenhower National System of Interstate and Defense Highways and 14,000 miles of other non-Interstate public highways on the National Highway System. The STRAHNET also contains approximately 1,800 miles of connector routes linking more than 200 military installations and ports to the primary highway system. The DOD's facilities are also often major employers in a region, generating substantial volumes of commuter and freight traffic on the transportation network and around entry points to the military facilities.

#### ***Federal Land Management Agency (FLMA) Coordination***

MPOs and State DOTs are encouraged to coordinate with FLMAs in the transportation planning and project programming process on infrastructure and connectivity needs related to access routes and other public roads and transportation services that connect to Federal lands. Through joint coordination, the State DOTs, MPOs, Tribal Governments, FLMAs, and local agencies should focus on integration of their transportation planning activities and develop cross-cutting State and MPO long range transportation plans, programs, and corridor studies, as well as the Office of Federal Lands Highway's developed transportation plans and programs.

#### ***Planning and Environmental Linkages (PEL)***

State DOTs, MPOs and Public Transportation Agencies are encouraged to implement PEL as part of the transportation planning and environmental review processes. The use of PEL is a collaborative and integrated approach to transportation decision-making that considers environmental, community, and economic goals early in the transportation planning process, and uses the information, analysis, and products developed during planning to inform the environmental review process. PEL leads to inter-agency relationship building among planning, resource, and regulatory agencies in the early stages of planning to inform and improve project delivery timeframes, including minimizing duplication and creating one cohesive flow of

information. This results in transportation programs and projects that serve the community's transportation needs more effectively while avoiding and minimizing the impacts on human and natural resources.

#### ***Data in Transportation Planning***

State DOTs, MPOs, and providers of public transportation are encouraged to incorporate data sharing and consideration into the transportation planning process, because data assets have value across multiple programs. Data sharing principles and data management can be used for a variety of issues, such as freight, bike and pedestrian planning, equity analyses, managing curb space, performance management, travel time reliability, connected and autonomous vehicles, mobility services, and safety. Developing and advancing data sharing principles allows for efficient use of resources and improved policy and decisionmaking at the State, MPO, regional, and local levels for all parties.

Recommendations, goals, and objectives in this RTP document incorporate as many of these emphasis area as practicable and relevant. As part of the 3-C regional planning process, coordination and cooperation with Berkshire MPO's partner agencies at MassDOT and FHWA will be a vital part of the successful outcomes for the region's goals. See the **Local, State, and Federal Coordination** section in Chapter 2 to learn more about the different agencies involved in transportation planning.

### **MASSDOT LONG-RANGE EMPHASIS AREAS**

MassDOT is developing a statewide long-range transportation plan concurrently with state Regional Planning Agencies: Beyond Mobility 2050. The plan is emphasizing the following focus areas:

- ◆ Climate Change
- ◆ Future-of-Work
- ◆ People
- ◆ Places
- ◆ Prosperity
- ◆ Technology

The Long-Range Plan will be complete by the end of 2023, and those interested can receive updates at the Plan website: <https://beyond-mobility-massdot.hub.arcgis.com/>

# About the Berkshire Metropolitan Planning Organization

The Berkshire Regional Planning Commission (BRPC) and Berkshire Metropolitan Planning Organization (MPO) fully comply with Title VI of the Civil Rights Act of 1964 and related statuses and regulations in all programs/activities and conducts its programs, services and activities in a non discriminatory manner.

The Berkshire Metropolitan Planning Organization (BMPO) is responsible for conducting the federally required metropolitan transportation-planning process that is often referred to as the 3-C process: continuing, cooperative, and comprehensive. The MPO uses this process to develop a vision for the region and then decides how to allocate federal and some state transportation funds to programs and projects—roadway, transit, bicycle, and pedestrian—which support the vision shared by all 32 cities and towns in Berkshire County.

The work of the MPO is conducted by the Berkshire Regional Planning Commission staff under the direction of the MPO. The primary focus is to develop certification documents which include the Regional Transportation Plan (RTP), the Unified Planning Work Program (UPWP) and the Transportation Improvement Program (TIP).

The success of the MPO is dependent upon a strong public involvement program collaborating with a wide range of interested parties on an ongoing basis. The public participation plan outlines the procedures utilized by the MPO in the transportation planning process.

The MPO has also established the Transportation Advisory Committee (TAC) which serves as a standing advisory committee that provides for the involvement of local government officials, transportation professionals and other representatives of transportation providers, user groups, and other relevant interests. It is the intent of the MPO to have a TAC that provides a broad-based transportation planning perspective and is fully representative of the Berkshire regional community.

The manner in which the MPO operates is outlined in a Memorandum of Understanding (MOU) between the members and the state which was last updated in 2011. Delegates to the MPO are organized as follows:

- ◆ Secretary and CEO, Massachusetts Department of Transportation (MassDOT)
- ◆ Administrator, MassDOT Highway Division
- ◆ Chair of the Berkshire Regional Planning Commission (BRPC)
- ◆ Chair of the Berkshire Regional Transit Authority
- ◆ Mayor of the City of Pittsfield
- ◆ Mayor of the City of North Adams
- ◆ One Selectperson from a town within each of the following four subregions:

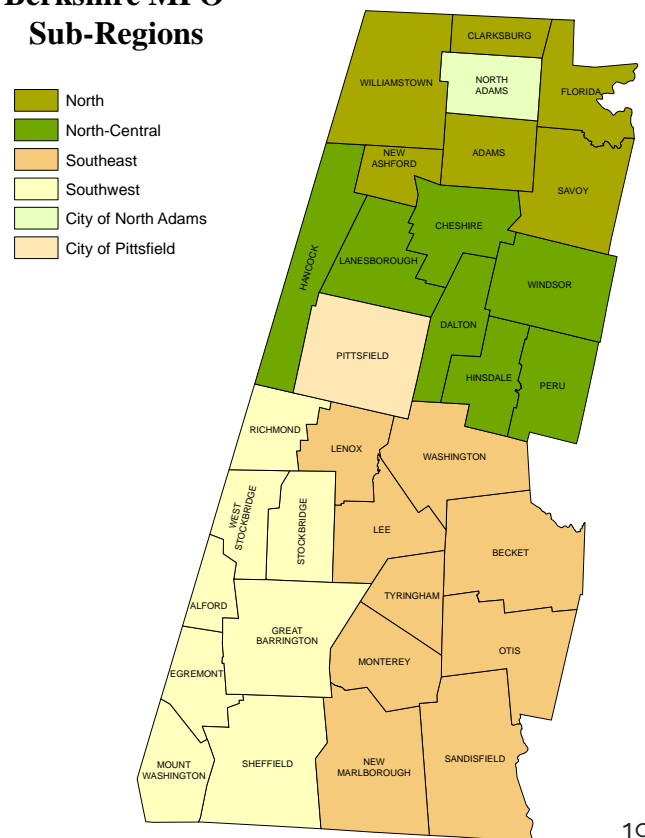
**North Sub-region** (Adams, Clarksburg, Florida, New Ashford, Savoy, Williamstown)

**North-Central Sub-region** (Cheshire, Dalton, Hancock, Hinsdale, Lanesborough, Peru, Windsor)

**Southeast Sub-region** (Becket, Lee, Lenox, Monterey, New Marlborough, Otis, Sandisfield, Tyringham, Washington,)

**Southwest Sub-region** (Alford, Egremont, Great Barrington, Mount Washington, Richmond, Sheffield, Stockbridge, West Stockbridge)

## Berkshire MPO Sub-Regions







# 2

# Planning Framework

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# Why a Long-Range Transportation Plan?

The goal of any planning project ultimately is to identify a need, propose a feasible project or program to address that need, and secure funding to implement the project or program. This Regional Transportation Plan will document Berkshire County's current state of transportation needs and make long-term recommendations to address those needs. Specifically, the RTP will be accomplishing the following objectives:

## 1. PROVIDE CERTIFICATION TO STATE AND FEDERAL PARTNERS FOR THE REGIONAL PLANNING PROCESS.

A Metropolitan Planning Organization (MPO) is a decision-making body that provides an interface between federal transportation funding and local transportation priorities. An MPO is required to represent cities and metropolitan areas with populations above 50,000 persons. The RTP is one of three Certification Documents that demonstrate that the region is following a planning process which is continuing, cooperative, and comprehensive. This "3-C" planning process is codified in 23 U.S.C. §134(c)(3):

*PROCESS OF DEVELOPMENT. — The process for developing the plans and TIPs shall provide for consideration of all modes of transportation and shall be continuing, cooperative, and comprehensive to the degree appropriate, based on the complexity of the transportation problems to be addressed.*

## 2. DOCUMENT THE REGION'S EXISTING AND PROJECTED TRANSPORTATION NEEDS.

This Plan will consider projects and programs over a 20-year planning horizon. Current data and performance measures related to our transportation system will be documented, along with regional population and demographic statistics. Population and workforce trends are projected up to 2050 at a regional level, to assist with planning for capacity and budgeting levels over the 20-year planning horizon. Refer to the **Socioeconomic Data and Projections** in Chapter 3 for more details on these data.

## 3. PROVIDE OPPORTUNITIES FOR PUBLIC PARTICIPATION AND INPUT.

Public involvement is a critical piece of the Regional Transportation Plan and any public infrastructure project. Learn more about the RTP 2024 public engagement process in the following section.

## 4. PROPOSE PROGRAMS AND PROJECTS TO ADDRESS THE NEEDS DOCUMENTED.

As transportation and travel needs are distilled from data sources and public input, transportation planning staff will undertake a process of proposing and weighing project or program solutions. The proposals must meet a need or correct a deficiency, have a positive impact on safety and the environment, and be fiscally constrained to reasonable cost estimates based on forecast funding from state and federal sources.

## 5. DEMONSTRATE FISCAL CONSTRAINT.

Every metropolitan area in the United States receives a share of federal dollars based both on predetermined funding formulas as well as competitive grants that offer a fixed amount of funding to qualified applicants. The RTP must demonstrate that proposed projects or programs will be able to be funded from known sources or be scheduled to commence once funding is available. Projects that do not have a funding source are unlikely to move forward in the planning process to design or construction until a source is identified.

## 6. REDUCE GREENHOUSE GASES AND OTHER POLLUTANTS.

The Environmental Protection Agency (EPA) tracks regional air quality improvement progress since the passage of the Clean Air Act. As part of this oversight, the Berkshire Region must verify that proposed projects and programs have a neutral or positive impact on air quality, particularly impacts to ozone and carbon monoxide. Learn more about air quality conformity requirements in **Chapter 6**.

## How to Use This Plan

This document is broken into its major chapters and smaller sub-parts. In this Chapter, the framework on which this plan was built will be explained in greater detail. An effective Regional Transportation Plan must take into consideration existing conditions of the region, such as population size and demographics, socioeconomic conditions that influence the region's mobility, job and employer prospects, and other traits that influence travel like lifestyle, shopping, and commuting habits. These data are gathered from various sources, including the Census, American Community Survey, the RTP Transportation Community Survey, and past plans and studies from around the region.

This chapter will also illustrate the regional, state, and national legal frameworks around which transportation planning is built. The region does not exist in a vacuum — coordination between all levels of government is essential to maintaining a high quality transportation system.

**Chapter 3 - Regional Data & Context** will go deeper into sources of information that contributed to the development of recommendations in this plan. This long-range transportation plan must consider a twenty-year *planning horizon* — that is, projections of population, socioeconomics, and project and priority recommendations must be considered out to twenty years from publication of this plan. Twenty years is considered an average time frame for a generation to move from one stage of life to the next, and the longest practical time line to make concrete transportation policy recommendations.

**Chapter 4 - Regional Goals & Recommendations** details the major goals of the Berkshires' transportation system, along with project and policy, and staff work recommendations to pursue those goals. Each goal is broken into several concrete Objectives. Key actions and targets will be noted where prudent, in order to illustrate a path toward achieving a particular objective. See **Figure 2-1** for a diagrammatic view of this format. Projects that have been or could be programmed into other regional certification documents will be listed under **UPWP Activities** or **TIP Projects** within each goal. These activities and projects are the “real-world” reflections of the priorities listed in this plan.

**Figure 2-1: RTP Recommendation Layout**



**Chapter 5 - Fiscal Constraint Analysis** takes a financial lens to the recommendations listed in this Plan. Fiscal constraint refers to the realization that publicly-funded infrastructure budgets are inherently limited by revenue collection rates, funding formulas and material and labor costs to construct and operate projects. Long-range transportation plans like the RTP2024 apply the twenty-year planning horizon to this financial analysis. The first five years of this period are already reasonably laid out in the region's Transportation Improvement Plan (TIP). Beyond these five years, a revenue projection exercise using an inflation-adjustment formula will generate an inherently conservative projection of future TIP funding periods. Project recommendations must fit into the projected revenue amounts during these periods, or they may be listed as “unfunded.” Unfunded projects are still listed as priorities, but do not currently have a known source of funding. They may be programmed at a future time when revenues for a certain period are more concretely known.

Finally, **Chapter 6 - Air Quality Conformity** takes an environmental lens to project recommendations, both to ensure that any projects have a neutral or positive effect on regional air quality, and to certify that the region meets Ambient Air Quality (AAQ) standards set forth by the EPA.

## Public Engagement

### BACKGROUND: THE MPO 3-C PROCESS

To ensure that the needs of the traveling public are considered objectively, and that the evolving trends and needs of the transportation system are accounted for, the regional planning process follows the “3-C” approach. The federal legislation that authorizes and certifies regional planning agencies, like Berkshire County’s, states that planning activities must be continuous, cooperative, and comprehensive. For more information on how the 3-C process applies to state and federal agency coordination, see the **Levels of Government in Transportation Planning** section on page 38.

Public feedback, involvement, and engagement are essential components of the transportation planning process. Early outreach helps ensure that as many community members as possible are engaged. Outlets for feedback allow residents to share their voices. The *RTP2024* public engagement process was multifaceted.

### COORDINATION WITH STATEWIDE LONG RANGE TRANSPORTATION PLAN (SLRTP): BEYOND MOBILITY 2050

The Massachusetts Department of Transportation (MassDOT) hosted stakeholder engagement sessions throughout the Commonwealth in the fall of 2022 and winter of 2023. BRPC participated in two “meeting-in-a-box” focus group discussions facilitated by MassDOT. The goal of meetings-in-a-box was to create a repeatable, objective engagement process with different communities, via an online survey and focus group discussion to elaborate on stakeholder responses.

BRPC hosted two focus groups: members of the Berkshire MPO and TAC in November 2022 and members of the Berkshire Regional Coordinating Committee on Transportation (BRCCOT) in March 2023. Responses from these focus groups assisted both MassDOT in gathering informed feedback for the Beyond Mobility plan, and assisted BRPC in gathering additional public feedback to inform recommendations for this RTP. Deeper analysis of responses will be reflected in the final Beyond Mobility report from MassDOT.

## ONLINE COMMUNITY SURVEY

The most reliable way for staff to gather public feedback from around Berkshire County was to host an online Transportation Community Survey. The survey covered a wide range of transportation topics, including:

- ◆ Transportation challenges
- ◆ Desired changes
- ◆ Lifestyle/commute habits
- ◆ Satisfaction/dissatisfaction
- ◆ Budget Prioritizing
- ◆ Extreme weather impacts
- ◆ Transit
- ◆ Active Transportation
- ◆ Future technology
- ◆ Location and income

The invitation to take the survey was shared through many different avenues. A flyer campaign in both English and Spanish was run across Berkshire County, with flyers posted or mailed to town halls and city halls, local businesses and other public places like post offices. Flyers were also hung around the Pittsfield Intermodal Transportation Center, and inside BRTA buses.

## EVERY DOOR DIRECT MAIL

Berkshire planning staff conducted targeted outreach to areas of Pittsfield and North Adams using the United States Postal Service’s Every Door Direct Mail system, or EDDM. This service assists with mass printing and delivery of marketing or outreach material via the postal service. The intent for utilizing this tool was to focus additional outreach effort to local Environmental Justice (EJ) qualifying populations. For this outreach, Census tracts in Berkshire County that are designated under the Justice40 initiative were chosen. The Justice40 initiative stems from an executive order of the Biden administration, targeting at least 40% of funds related to certain federal programs to Census tracts that have been historically underserved or underinvested in. The EJ Mapper tool provided by the EPA highlighted several Census tracts within Berkshire County - in the cities of Pittsfield and North Adams - as underserved within the definitions of Justice40.



Figure 2-2: EDDM Outreach Postcard



Participants were able to attend the meetings in-person or register to join the meeting via Zoom webinar. Spanish interpretation on the Zoom webinars was also available by request in advance of the meeting. At the meetings, BRPC staff presented more details about the RTP process, and invited feedback, questions and dialogue with attendees.

## COMMUNITY SURVEY FINDINGS

Between November 2022 and January 2023, planning staff received feedback and input from over 360 stakeholders about the region's transportation system. It is important to note that this survey is not statistically or scientifically rigorous due to staff and budget limitations. The responses to the Transportation Community Survey provide valuable insight into the existing conditions and current needs of county residents, and is also only one piece of the planning framework in constructing this Regional Transportation Plan. The goals, objectives, and recommendations made by this plan are the result of the continuous, coordinated, and comprehensive planning framework as described throughout this section.

The Every Door Direct Mailing was delivered to approximately 6,800 households along mailing routes that covered the Census tracts as thoroughly as possible. It should be noted that the postal delivery routes do not match up perfectly with the Census tract boundaries, and therefore some households outside of the Justice40 tracts received mailings, and some households within the Census tracts did not.

The EDDM mailing consisted of a two-sided postcard that invited recipients to take the online Transportation Community Survey. It also provided context around the long-range Regional Transportation Plan process and a background for the Berkshire Regional Planning Commission. See **Figure 2-2** for an example of the postcard that was mailed.

## PUBLIC OUTREACH MEETINGS

In the month of November 2022, BRPC planning staff hosted three opportunities for in-person and virtual public involvement around Berkshire County. The meetings were held at the following dates and times:

- ◆ November 2, 2022 at 5:30 pm, at the Berkshire Athenaeum (Pittsfield Public Library)
- ◆ November 10, 2022 at 5:30 pm, at the North Adams City Hall
- ◆ November 16, 2022 at 5:30 pm, at the Great Barrington Firehouse

Planning staff found that despite the EDDM postcard being mailed to 6,800 households, only 24 of the associated QR codes were scanned according to the survey metrics data. This may not include participants who manually typed in the survey URL from the postcard. Regardless, if all 368 survey responses were generated from the EDDM postcard, that equates to an approximate 5% return on the outreach investment. The causes of low returns cannot be correlated specifically with any certain factor, though it can be hypothesized that the outreach could have been perceived as a generic marketing survey, the postcards were mixing with other mail, and the requiring of the participant to take positive action as opposed to being solicited for responses all contributed to the challenges of receiving public feedback at scale.

## Demographics

The survey respondents skew older in age and higher in income than the average Berkshire County resident. While a concerted effort was made to reach residents of all backgrounds, those with more time to dedicate to answering a survey, a reliable Internet connection, and awareness of this planning initiative were more likely to submit a response. See **Figure 2-3**.

## Transportation Challenges

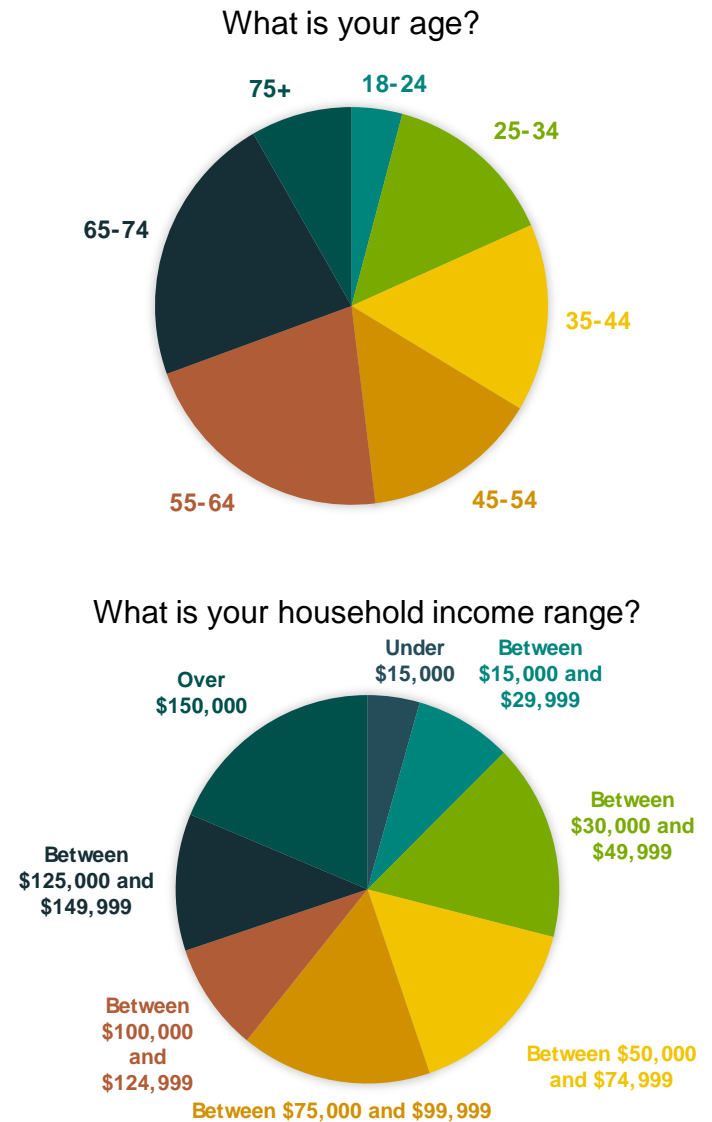
As part of the continuous transportation planning process, transportation challenges that were posed in the previous 2020 RTP Transportation Needs Survey were put forward again to ascertain if there were any changes over the 4-year time period, especially after the onset of the COVID-19 pandemic. The only major difference between the questions was that the 2024 survey eliminated one response category: "Somewhat of a challenge" and only listed answer options of "Major challenge," "minor challenge," and "I don't experience this challenge."

Between 2020 and 2024, the top three scenarios listed as a "major challenge" by the most respondents remained as "Sidewalk conditions/availability prevent me from walking more," "BRTA bus not available when I need it," and "Lack of bike paths/lanes prevent me from biking more."

In the 2024 survey, the "Lack of bike paths" response remained the top "major challenge," while sidewalk conditions overtook BRTA availability as the second highest challenge. "Having my opinion be heard when transportation decisions are made by local leaders" remained the next most prevalent issue after BRTA availability. These findings have fed into the development of recommendations and activities shared in **Chapter 4**.

Another trend that persisted from 2020 to 2024 was the notion that respondents' age and health conditions do NOT prevent them from driving. Challenges of age and health were the lowest recorded as being a "major challenge" to respondents. Despite the largest proportion of respondents to the 2024 survey being over age 65, age and health were listed as the least challenging aspects of transportation. In this vein, a concern often raised from municipal leaders, MPO members and participants in focus groups beyond the Community Survey was the difficulty in coordinating transportation services for senior and disabled

**Figure 2-3: Survey Respondent Basic Demographics**



passengers. This would seem to indicate that once residents reach an age beyond what is safe for driving, there is a major shift in the quality and connectivity of transportation options.

## Travel, Lifestyle, Commuting Characteristics

The vast majority of respondents listed using a personal vehicle as their main option of traveling around the region, at 88% of respondents. The remaining 12% of responses included 4% who walked, 3% who used BRTA transit, 2% who bicycled, and the remaining respondents reporting carpooling, getting rides, using taxi or rideshare, or something else. The average travel time to work reported by respondents was 17.2 minutes. When asked, 65% of respondents said that the COVID-19 pandemic did not have any major impacts on their commute or transportation options. Comments

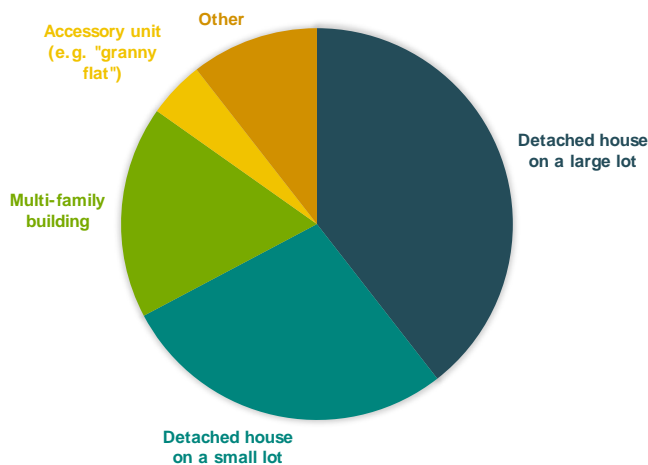
provided indicated that people who were retired did not generally experience impacts, while others shifted to hybrid or remote work, "gig economy" work, or walked or cycled more. See the **Appendix** for all open-ended responses to survey questions.

In terms of lifestyle, respondents reported mixed habits in shopping. A slight majority reported trending more toward in-person shopping over browsing online. When asked where one saw themselves living in the next stage of their life, the largest proportion of respondents said they envisioned (or possibly already lived in) a detached home on a large lot. This is indicative of a rural land use pattern that is common around Berkshire County outside of the built-up and urbanized areas. The next largest proportion envisioned living in detached homes on smaller lots, which are more indicative of suburban or denser urban neighborhoods (e.g., with building lots of less than half an acre). The remaining one-third of respondents were split between envisioning life in multi-family housing, living in accessory dwelling units (ADUs), or something else. See **Figure 2-4** for a visual breakdown of responses. The highest-ranked determining factor for where respondents would opt to live was housing affordability, followed by travel times to and from destinations.

For employer-supported workplace transportation, such as employee shuttles, there was a mix of support among funding schemes. The largest proportion responded that they would be willing to pay an equivalent amount to a BRTA bus fare, with the next largest cohort responding that it should be paid for another way without cost to the employee.

**Figure 2-4: Preferred lifestyles**

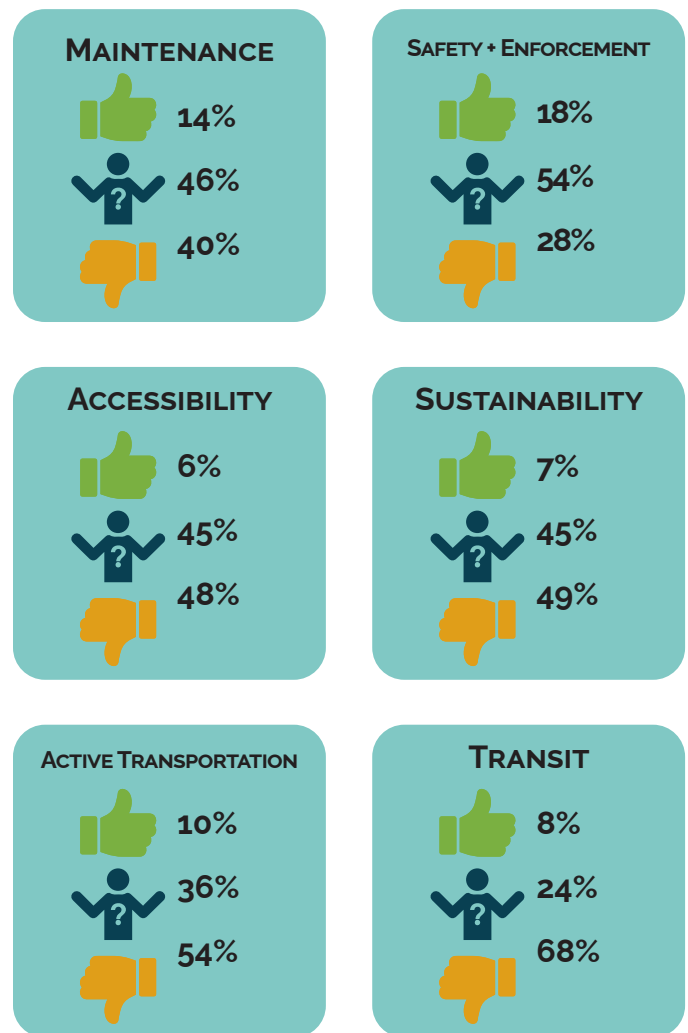
Where do you see you or your family most likely living in the next stage of your life?



**Transportation Satisfaction Levels**

Survey respondents were asked to report their levels of satisfaction with broad components of the transportation system. Response options included "Satisfied," Dissatisfied," or a neutral option such as "Neither Satisfied nor Dissatisfied" or "I'm on the fence." Satisfaction levels are illustrated in **Figure 2-5** below. For each of the six categories (Maintenance, Safety and Enforcement, Accessibility, Sustainability, Active Transportation, and Transit), none received a plurality of "Satisfied" responses.

**Figure 2-5: Satisfaction Levels of system components**



Maintenance received the highest number of "Satisfied" responses at 14%, Safety and Enforcement received the highest number of neutral responses at 54%, and Transit received the highest number of "Dissatisfied" responses at 68%. Respondents could also rate from 1-5 the overall conditions of pavement, signage, and striping that they observed. Out of **5.0**, the average rating was **2.54**. For conditions of signage and striping, out of **5.0**, the average rating was **2.79**.

### Desired Changes to the Transportation System

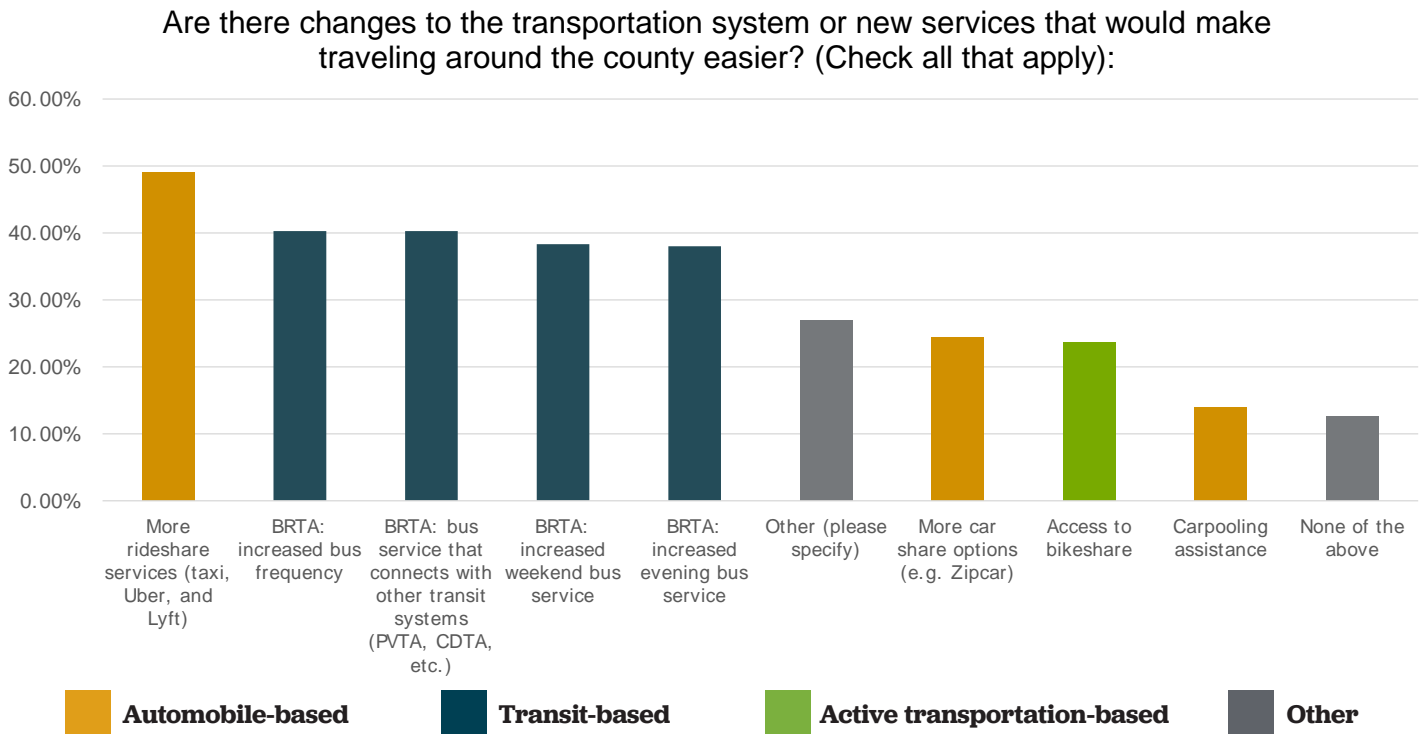
In response to inquiries to transportation challenges and satisfaction levels, respondents were asked to choose which changes to the transportation system would make travel around the region easier. Options included more rideshare services, increased bus frequency, hours, and coverage, more car sharing options, access to bikeshare, carpooling assistance, or none of the above. The most frequently chosen answer was more rideshare services such as taxis, Uber, and Lyft. Improved components of the transit system all occupied second, third, fourth and fifth place. See **Figure 2-6** for response levels for each improvement option. Comments in response to the “Other”

building or widening roads, improving streetscape appearance, and moving freight more efficiently.

### Public Transportation and Passenger Rail

Survey respondents overwhelmingly do not use the region's public transportation system. When asked how one currently utilizes our public transportation system, a combined 84% responded with “I very rarely/never use the public transportation system,” and “We have a public transit system?” One blind spot for this survey was directly inviting public transit users to answer the questionnaire. BRPC sees great value in partnering with the Berkshire Regional Transit Authority (BRTA) staff to engage with transit riders more directly to get their feedback in future outreach

**Figure 2-6: Desired Transportation Changes**



option heavily featured constructing more bike paths and bike lanes, as well providing more rail service, EV charging infrastructure, transit services for hilltowns — those outside the major “spine” of central Berkshire County and the river valleys, senior transportation, and shuttle services.

When asked to rank future budget priorities, the highest priority selected overall was improving public transit, followed by funding maintenance of our existing assets, and improving safety for all road users. Other investments that were ranked lower on the list included enhancing the existing transportation network with new technology,

strategies. Intercepting riders at the ITC terminal is one strategy, possibly interviewing customers who are waiting to board their bus with a very brief questionnaire. Riding along and interviewing interested passengers on the buses themselves is another strategy. This should be considered as a special study effort for planning staff and is discussed further in **Goal 3: Expand Public Transportation Services and Options.**

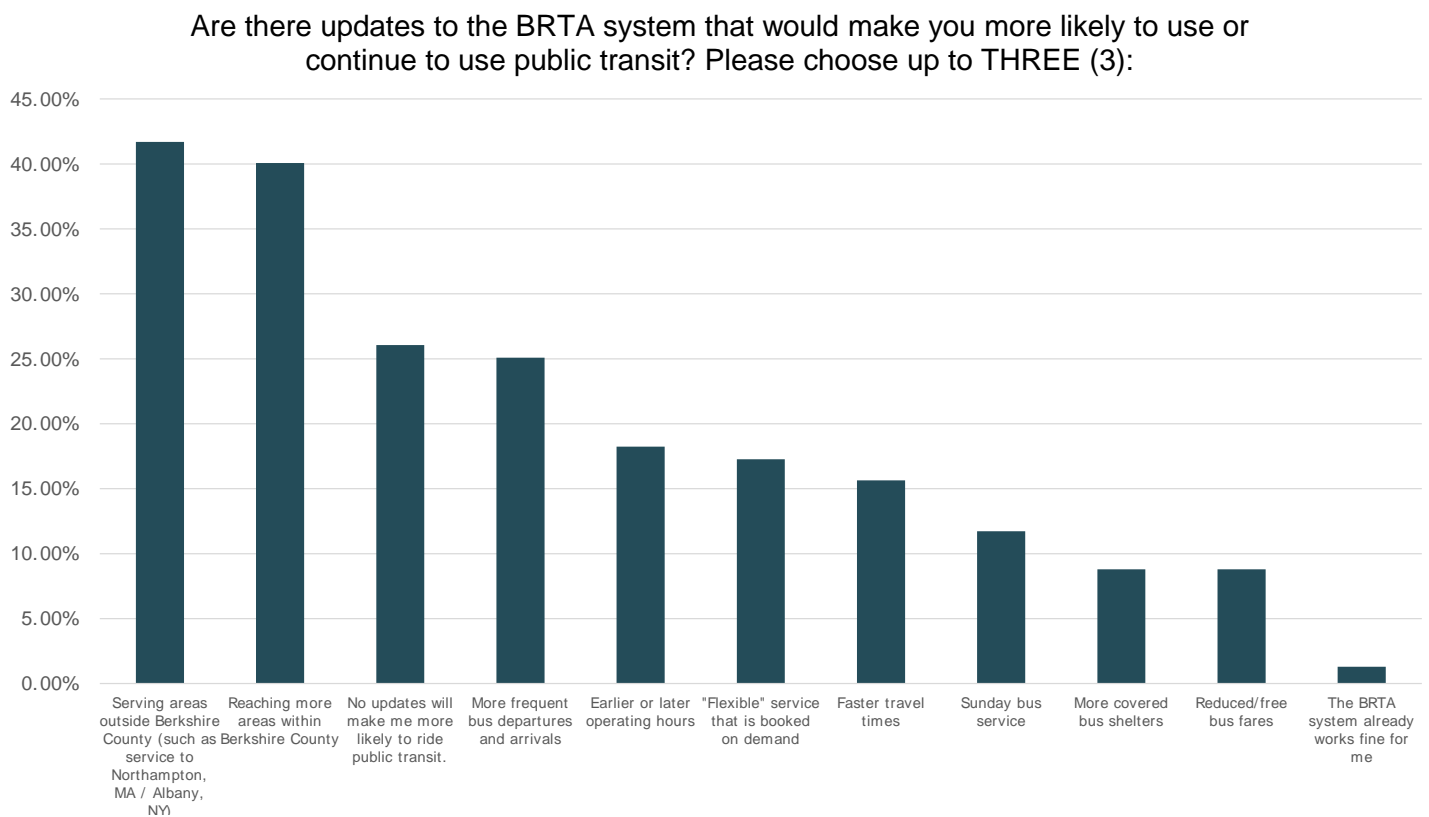
Despite low ridership overall from respondents, the Community Transportation Survey was able to gather insights into what enhancements could be made to attract more and continued ridership.

Respondents could choose up to three changes that they would feel makes the region's public transit work better for them. The top-chosen response was to serve areas outside of Berkshire County — such as connections to Albany, NY or Northampton, MA. The second highest choice was to reach more areas within Berkshire County. The third-place response indicated that no updates would make the respondent more likely to ride public transit. See **Figure 2-7** below for the break-out of all responses.

### Active Transportation

As noted previously, gaps in sidewalks and bike infrastructure were noted as two of the largest challenges to mobility for survey respondents. When asked to rank potential investments in active transportation for Berkshire County, respondents listed repairing and building new sidewalks as the highest priority. Expanding the Ashuwillticook Rail Trail was the second-highest ranked project, followed by building Berkshire Bike Path segments in southern Berkshire County, and installing more on-road bike lanes for applicable streets. Support for a regional bike-share system was strong

**Figure 2-7: Desired Transportation Changes**



A large contingency of survey respondents expressed support for enhanced passenger rail, with 79% reporting that they would be likely to use a passenger rail connection, if it existed, for reaching destinations in the Northeast region. Open-ended comments for transit issues also heavily supported rail, along with elaborations on improvements for public transportation. Overall, there is appetite for improvements to rail and transit infrastructure in Berkshire County. While high-quality fixed-route service will always prove challenging in a rural region, there are additional options that can be explored like micro-transit and rideshare.

overall from survey respondents, though interest in using such as system was mixed. Just under one-third (the highest proportion) of respondents reported that they support a bike-share system but would likely not use it themselves. 27 percent reported that they support and would occasionally use a bike-share system, while 19% reported they would be likely to use it. 24 percent of respondents did not support investing in a bike-share system. Public comments included support for more separated bike infrastructure, as well as re-working downtown Pittsfield's bike lane network.

## ***Sustainability and Technology***

Survey respondents were asked to share what weather and climate impacts they observed on the roads in their communities. The most frequent response was downed trees and power lines. The next two most widespread impacts reported were ice accumulation and bridge damage. Road flooding and washouts rounded out the top responses. Other less common responses were sinkholes, impassable mud, no major effects, something else, and rock slides/mud slides onto the roadway. Respondents who provided comments heavily noted the prominence of potholes on roads around the region, as well as impacts to travel from winter weather.

Concern for impacts on natural habitats and wildlife linkages was also shared by community members and organizations. Ensuring that our infrastructure has a reduced impact on the environment is an important step in mitigating climate change and its impacts.

The survey also supplied an open-ended prompt for respondents to share locations where weather and climate-related impacts were observed. Many noted the city of Pittsfield in general, including particular local streets. Hinsdale, Great Barrington, Stockbridge, Egremont, North Adams, Clarksburg, Florida, Richmond, Lenox Dale, and Lanesborough were also referenced. The full open-ended responses are available in the **Appendix**.

Respondents shared more thoughts about sustainability in general, including support for more EV charging infrastructure, implementing hybrid/electric buses, transitioning utilities to be underground, enhanced wildlife crossings, concern for amounts of salt used on the roadways, and concern for maintenance of gravel roads as the climate changes.

Responses were mixed in adopting new transportation technology. The biggest need expressed was for greater coverage of rideshare services like

Uber and Lyft, with a 2.98/5.0 rating from respondents. The next highest level of interest was for personal rideable technology, such as e-bikes and e-scooters, with a rating of 2.92. Autonomous vehicles rated at 2.29, vehicle sharing, such as Zipcar, rated at 2.23, and other new technology like drones, robots, etc., rated at 2.04. The region will likely not be an early adopter for most cutting-edge transport-related technology, but needs to stay current on emerging trends in order to not fall behind.

## ***Conclusion***

The RTP Community Transportation Survey provided a window into the public's view of transportation issues around the county. As noted, the survey results do not tell the whole story, but provide one piece of the overall data-driven process of transportation planning.

Important insights were gathered that will help inform project prioritizations in the RTP. For instance, strong support for regional transit connections to neighboring communities in New York's Capital Region and Pioneer Valley was an unexpected highlight. Notable challenges to walking, cycling, and transit will continue to support additional funding and planning efforts toward those initiatives.

Every piece of feedback from the region's constituents and stakeholders is valuable in the development of a high-quality regional transportation plan. It is the role of planning staff and other levels of leadership to gather and interpret public feedback, and develop priorities that can balance the desires of all parties involved.

Transportation planning staff and stakeholders, along with political leadership should continue to provide accessible and empowering outlets for public involvement, especially to those communities who have been historically under-invested, disadvantaged, and experiencing disproportionate externalities of the transportation system, such as excessive pollution, injuries, and travel times.

# Alignment with Regional Data and Studies

The backbone of an effective long-range regional transportation plan is the incorporation of past planning efforts from constituent communities, and coordination of priorities with state and federal stakeholders. In order to best meet the needs of the region, it is important to distill the findings of local studies to be sure they are appropriately considered for future resource opportunities. A regional plan should also take into account the priorities of higher levels of government, so that the region is in the best position to request and receive additional resources as they become available. This section will list and summarize prudent studies from municipalities, the Berkshire Region, and at the state level.

## LOCAL PLANNING STUDIES

Studies conducted in recent years by municipalities in Berkshire County may include Comprehensive Plans, Open Space and Recreation Plans (OSRPs), Complete Streets, or other Master Plans. Studies referenced here have generally been published recently and are still in implementation phases.

### 2019

#### ***Town of Adams Open Space and Recreation Plan***

Pursuant to the Plan's stated goal, among others, to "continue to develop and maintain multi-use and multi-generational recreational opportunities that bring together Town residents," one objective recommends development of a cross-town network of bicycle routes that utilize the Ashuwillticook Rail Trail as a "spine." The Plan also recommends developing a connector trail for bicycling from the Adams Visitors Center to the Greylock Glen outdoor recreation facilities. A circulator shuttle in conjunction with BRTA is also recommended to be explored.

### 2017

#### ***Town of Cheshire Master Plan***

The town lists their key transportation issues within the plan as: 1) general road and bridge maintenance, and 2) participation in the regional transportation planning process. The Plan lists a goal of "provid[ing] a complete and well-maintained transportation system that safely accommodates vehicles, pedestrians, and cyclists."

### 2016

#### ***Town of Dalton Master Plan***

The Plan lists major transportation issues of flooding during major weather events, increasing access to maintenance funds such as Chapter 90, and improving alternative transportation options. The town has also been working to get a reconstruction plan for Division Road over the finish line. Currently, it is programmed in the TIP for 2027-2028.

### 2018

#### ***Town of Hinsdale Open Space and Recreation Plan***

The town's latest OSRP lists one of its goals as creating more opportunities for outdoor recreation. Pursuant to that goal, one objective is to create more opportunities for cycling by widening shoulders or installing bike lanes where feasible.

### 2017

#### ***Lanesborough Economic Development Plan***

This plan notes the importance of Route 7 to the town's economic development. It recommends improvements to the roadway that create a "gateway" and/or "town square" feature, which could encourage more patrons to visit local businesses and more entrepreneurs to consider doing business in the town.

### 2021

#### ***Town of Lenox Master Plan***

The town's Master Plan lays out a vision of a "transportation and circulation network that meets the needs of its residents and visitors." Several goals and action items are put forward in pursuit of that vision. These include:

- ◆ Implementing recommendations from the town's Complete Streets plan
- ◆ Providing transportation choice by enhancing system connectivity between modes
- ◆ Prioritizing safety for all users of the transportation system
- ◆ Prioritizing projects that enhance walkability and bikeability for visitors by ensuring adequate connections to town destinations
- ◆ Increasing livability of Lenox by improving access to active mode facilities and/or transit services
- ◆ Developing a multimodal transportation

system that is sensitive to the historic districts and rural scenic character of Lenox

- ◆ Ensuring that improvements are equitably distributed throughout the town

In addition, the Master Plan calls for continuing to provide adequate transportation services for senior and disabled residents, implementing enhanced local public transit, maintaining a state of good repair of local roads, and increasing access to means of transportation, including shuttles and rail.

#### **2014**

##### ***North Adams Vision 2030 Comprehensive Plan***

The Comprehensive Plan includes several goals across different categories that relate to transportation planning. These include continuing bike path planning, conducting a downtown and neighborhood walkability study, implementing urban walking routes, studying the Route 2 overpass, and conducting a downtown parking study. Route 8 and Route 2 are also targeted for corridor enhancements such as streetscape improvements and creating gateways between the city and neighboring towns.

#### **2016**

##### ***Town of Otis Master Plan and Open Space & Recreation Plan***

The most recent Master Plan for the town lists several transportation goals:

- ◆ Providing a complete and well-maintained system of roads
- ◆ Increasing access to public and alternative transportation in the town
- ◆ Enhancing the bicycle and pedestrian environment in the town
- ◆ Addressing wildlife crossings in future roadway projects.

#### **2021**

##### ***City of Pittsfield Bicycle Facilities Master Plan***

From the Fall of 2020 to the Fall of 2021, the City of Pittsfield conducted a study of, and released a master plan for, a comprehensive network of bicycling facilities on City streets. The final proposed network includes context-sensitive facilities to create safe cycling routes to as many areas of the city as possible. Depending on the adjacent use to the right-of-way, traffic volumes and speeds, available road space, and regional connectivity, a street could be proposed to include painted bike

lanes, a separated path, shared street space, or buffered bike lanes. The BFMP should be consulted when resurfacing and other improvements are made to streets in the city, especially Federal-aid and regionally significant routes.

#### **2019**

##### ***City of Pittsfield Hazard Mitigation Plan Update***

The latest Hazard Mitigation Plan covers needs of city transportation infrastructure including roads, bridges, and culverts. There are ten bridges identified in the city as structurally deficient. Roads in Pittsfield, especially in close proximity to the Housatonic River, can be vulnerable to flooding. Participants in the plan development also expressed concern about the amounts of salt and sand needed to keep the streets clear in winter weather, and potholes and sinkholes becoming more problematic with extreme freeze/thaw cycles during the winter season.

#### **2016**

##### ***Town of Sandisfield Master Plan***

Several transportation goals are put forward in the Master Plan. They include: providing a complete and well-maintained system of roads, improving public and non-motorized transportation in the town, and establishing a wayfinding system and improving local signage. Route 57 was noted as a major east-west route through the town, which is entirely under local jurisdiction. Placement on the TIP was noted as a priority. Addressing future bridge needs, adopting a Complete Streets approach, and enhancing services for seniors also were listed as discrete objectives.

#### **2016**

##### ***Town of Stockbridge Visioning Plan***

It was noted as part of the visioning process, transportation options and connections were a key concern. Rail transportation was future hope, along with ride share services, taxis, and other means of connecting to nearby towns and cultural venues. Increasing cycling as a viable alternative to automobile use, particularly around downtown, was noted by participants. The "2036 vision" of Stockbridge includes people moving throughout town by various means of transportation and being less car-reliant. Community activities are clustered near downtown where walking and cycling is safest and most accessible. Regional connections by rail are also available. A town Transportation Planning exercise was recommended.



## REGIONAL PLANS

**2023**

### ***Comprehensive Economic Development Strategy***

Transportation infrastructure is a vital component of a competitive local economy. The Berkshires' most recent CEDS report covers a five-year span between 2023 and 2027. The details of potential infrastructure investments will be explored in **Goal 2: Foster Economic Development**. The CEDS lays out five overarching goals, several of which have transportation planning implications:

- ◆ Healthy People (Foster the wellbeing of all residents by ensuring affordable, equitable access to food, housing, education, and healthcare)
- ◆ Resilient Communities (Equip our communities to serve their constituents, steward resources, and manage governance effectively.)
- ◆ Robust Infrastructure (Prioritize improvements to critical elements of economic prosperity, including communications, transportation, and utilities.)

The SWOT (Strengths, Weaknesses, Opportunities and Threats) analysis for the region currently lists public transportation as a weakness. As workforces around the county continue to age and contract, and land use policies allow for scatter-site development of workplaces and industries, use of public transit as a means of commuting has declined.

Relevant priorities and project recommendations that foster economic development will be explored further in **Goal 2**.

**2014**

### ***Sustainable Berkshires Report***

This report lists a major goal of providing quality infrastructure and services. Heavy traffic in downtowns was listed as a concern for noise and air pollution as well as safety. The transportation network can also create barriers for business development in areas with limited highway access. The high cost of personal mobility when car ownership is all but required to move about the county negatively impacts the populace, especially those who are unable to drive due to age or disability. Transportation financing is another goal for study and improvement, such as increasing Chapter 90 funds and directing 1¢ MBTA surcharges back to the region.

**2020**

### ***Berkshire County Outdoor Recreation Plan***

This plan, produced in conjunction with Mill Town Capital, lists several recommendations for Berkshire outdoor recreation that can be supported with transportation investments:

- ◆ Develop trail connections from recreational venues and along waterways to downtowns of the cities and towns of Berkshire County
- ◆ Review new development and transportation projects for recreation synergies and needs
- ◆ Consider shuttles for paddlers, hikers, and bikers for one-way trips
- ◆ Work with municipalities to incorporate Complete Street principles into future infrastructure improvements
- ◆ Increase lengths of paved bike trails by expanding county-wide and creating connections to downtowns and recreational areas
- ◆ Increase availability and use of protected and dedicated bike lanes, increasing the width of shoulders on roads that do not have bike lanes

**2022**

### ***Electric Vehicle Charging Station Plan***

The purpose of this plan is to increase awareness of electric vehicle (EV) technology and advance the strategic installation of charging stations throughout the region. Major goals include: education of the public on current states of charging technology, equipping municipalities with information to make decisions on electrification investments, and recommending feasible pathways to build sustained engagement and a comprehensive charging network around the county. These ideas will be explored further in **Goal 6: Adapting for Sustainability and Resilience**.

**2023**

### ***Coordinated Human Services Transportation Plan***

The CHST is an initiative with the goal of gathering and coordinating all transportation services that are focused on serving those who are elderly, disabled, or low-income. The plan development involves gathering feedback from stakeholders in the community who may fit into one or more of those categories, as well as convening transportation service providers. The plan then works to recommend efforts to further enhance and coordinate these services and identifies funding opportunities to implement projects and programs.

## STATEWIDE PLANS

**Figure 2-8: Average Chapter 90 dollars per mile of road by county (via State Auditor)**

**2021**

### **Public Infrastructure in Western Massachusetts: A Critical Need for Regional Investment and Revitalization**

This report was published in October 2021 by the Office of the State Auditor. As laid out in the report, this study had four overall purposes:

- ✦ Estimate the costs for infrastructure needs, by category, in Western Massachusetts,
- ✦ Highlight funding sources, and gaps in funding, for infrastructure development and maintenance,
- ✦ Propose a model for funding infrastructure projects for Western Massachusetts municipalities,
- ✦ Engage policymakers in discussions on the infrastructure needs of Western Massachusetts municipalities

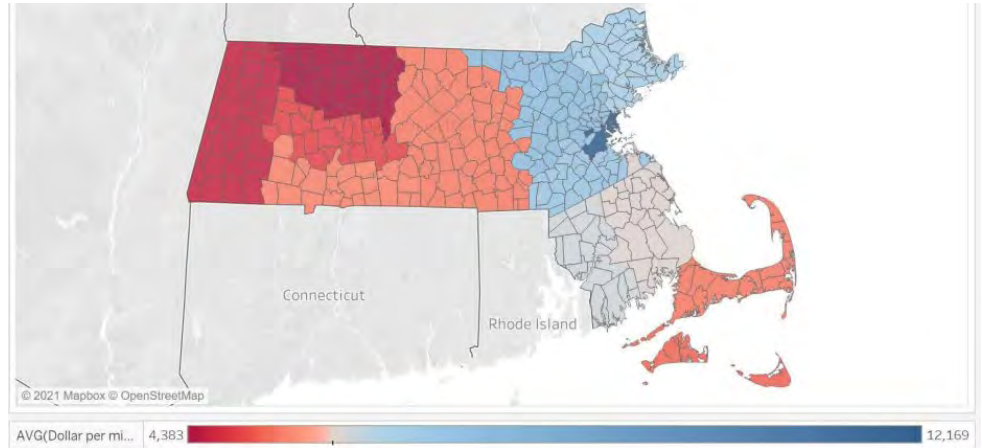
The report considered three different general types of infrastructure: Broadband Internet, roadways (including sidewalks, lighting, culverts and small bridges), and municipal buildings (exclusive of educational facilities).

The report highlights the difficulties that many municipalities experiencing population decline have with raising additional revenue to fund maintenance and services. Proposition 2 ½, for example, sets a cap on “how much tax revenue can be extracted from property wealth, even though property taxes are often the greatest source of revenue for a municipality,” per the report. New property growth allows a town to gain more revenue beyond that limit.

The State Auditor’s report makes several recommendations related to transportation infrastructure. While Berkshire County may have little direct control over when or if these recommendations are implemented, local stakeholders and regional planning staff are prepared to assist as needed.

#### **Recommendations:**

1. The Chapter 90 Program needs additional funding and formula reform.



The Chapter 90 Program is the direct state-aid program in Massachusetts that provides towns and cities with maintenance funds for their local roads. See **Goal 1a** for additional information about the program. The Chapter 90 funding pool has been held steady at \$200,000,000 for nearly a decade, and this has caused the purchasing power of the funding to steadily erode. The report highlights the town of Lenox, where \$436,051 was received in Chapter 90 funding in FY2015, but that amount had declined 35% to \$282,098 by FY2020. This can be traced to multiple factors such as population loss and redistribution of the static pool of formula funds to other growing communities. Overall, towns in the Berkshires lose out on a per-mile basis of funding. Rural roads often carry less traffic than urban counterparts but still must be built to a certain minimum standard. **Figure 2-8**, taken from the report, shows a comparison of average Chapter 90 funding per mile. The disparity ranges from a low of \$4,383 per mile average in the FRCOG region to a high of \$12,169 per mile in Suffolk County. Berkshire County averages to about \$4,826 per mile of Chapter 90 funding, based on BRPC analysis.

Supposing that the median Chapter 90 funding per mile, based on the amounts given in **Figure 2-8**, was \$8,276, the Berkshire region would need to see a funding increase of 71% percent on average to reach this figure. This would add up to about \$13,150,000 in combined Chapter 90 funding to the 32 municipalities in Berkshire County.

**Figure 2-9: Chapter 90 Program Formula Weights, Current and Proposed**

	Current Chapter 90 Formula Weights	Proposed Chapter 90 Formula Weights
Road Mileage	58.33%	69.33%
Population	20.83%	15.33%
Employment	20.83%	15.33%

The report also recommends re-formulating the Chapter 90 program to put more emphasis on road mileage and less on population and employment figures. Apportioning funds to each town is done by considering a town's road mileage under local control, the town's population, and how many jobs are within the town. Current and proposed weighting of these formula components are shown below in **Figure 2-9**.

### *2. Repair and replacement of small bridges and culverts need more funding and attention*

According to the State Auditor's report, there are over 2,000 small bridges and culverts in western Massachusetts, at varying levels of need. It is recommended for MassDOT to provide in-house technical assistance to municipalities for small bridge design and other projects, especially small communities who may not have the resources available to procure an engineering design through a third-party consultant. Additionally, creating a library of design templates for stream crossings is a project that was endorsed by the Culvert and Small Bridge Working Group, and is currently being further explored. It is also recommended to implement a layer of separation between the technical expertise and various funding arms of regional agencies, as well as MassDOT agencies. Technical assistance programs could be housed elsewhere as well, such as the Executive Office of Housing and Community Development.

### *3. The Small Town Road Assistance Program requires greater funding and modification to better meet the needs of small towns and rural communities.*

Per the State Auditor's report: "The Small Town Road Assistance Program (STRAP), which is a stressed resource that is dedicated to the needs of small communities, should be enhanced in two ways. First, the MassWorks enabling statute should be amended to provide a larger percentage (15 or 20%) of MassWorks's annual funding towards STRAP projects, rather than the current 10%. In addition, the \$1 million cap per project for STRAP projects should be removed, which will allow larger projects to take advantage of the program."

#### **2019-2021**

#### **Statewide Bicycle and Pedestrian Transportation Plan and Update**

The previous Statewide Bicycle Transportation

Plan was written in 2008. In 2019, a new version was written, taking into account new acceptance of modern cycling infrastructure, research, and policies. In 2021, the Plan was supplemented with selected exemplary projects encompassing the vision and mission of the Plan. This Plan is broken into visions, goals, and principles for traveling both by bicycle and foot. Priority projects on both state and local roads are explored, as well as new methodologies in data collection, design criteria, equity performance measures, legislation, and public education. The plan was developed through a combination of public participation and steering from the Massachusetts Bicycle and Pedestrian Advisory Board (MABPAB).

#### **Vision for Bicycling:**

Biking in Massachusetts will be a safe, comfortable, and convenient option for everyday travel.

**Goal 1:** Eliminate bicyclist fatalities and serious injuries.

**Goal 2:** Increase percentage of everyday trips made by bicycling

**Principle 1:** Value people bicycling and their travel needs, especially the most vulnerable - children, elderly, people with disabilities - to ensure they can safely bicycle.

**Principle 2:** Prioritize improvements for people bicycling by proactively addressing gaps and barriers that discourage bicycling and are known to increase likelihood of crashes.

**Principle 3:** Lead the Commonwealth in meeting the Bicycle Plan goals by supporting local municipalities and other agencies to advance everyday biking.

This vision along with these goals and principles will be acted on through investments in the Capital Investment Plan, which are now subject to the MassDOT Healthy Transportation Policy Directive. Additional funding comes in the form of the MassTrails Program, Complete Streets program and the Chapter 90 program. See **Chapter 4 Objective 1a** for more information about Chapter 90, and Objective 5a for more information on the Complete Streets program.

Towns and cities are encouraged to obtain a copy of the [MassDOT Municipal Resource Guide for Bikeability](#), released as a companion to the 2019 State Bicycle and Pedestrian Plan. The guide provides an introduction to municipal staff and

leadership on the core principles of bikeability and supplies the tools and information needed to create safe, comfortable, and convenient bike networks that appeal to the broadest base of people. Topics include why bikeability is important, designing for all ages and abilities, planning bikeable communities and connected networks, establishing bikeshare, collecting data, and maintaining four-season bikeways.

According to the state of bicycling data used for the 2019 plan development, 1.4% of daily trips in the Commonwealth are made by bike. Nearly 8,600 crashes involving a bicyclist were recorded between 2010 and 2015. 51 of these crashes were fatal, 661 caused serious injury, and 5,615 crashes caused other injuries. Safety initiatives from Complete Streets, Vision Zero (a framework of setting a goal of zero fatalities), the Highway Safety Improvement Program (HSIP), and the MassDOT Office of Traffic Safety offer resources to address these statistics. The Berkshire RTP will discuss how the region aligns with each of these entities in subsequent chapters.

### **2023 Massachusetts Freight Plan**

This document is currently undergoing an update from its previous 2017 version. MPO staff is actively participating in this development effort. The purpose of the plan is to provide an update to the previous 2017 state freight plan and fulfill the obligation of providing an updated state freight plan to the FHWA every four years moving forward. The 2023 Freight Plan offers the following vision statement for freight movement in the Commonwealth:

*“Supporting safe, resilient, and secure multimodal freight movement in Massachusetts through investing in key freight assets to improve economic competitiveness, provide efficient and reliable freight mobility, and support healthy and sustainable communities.”*

The 2023 Freight Plan is assessing the following goals:

- ◆ System Condition
- ◆ Safety and Resiliency
- ◆ Mobility and Reliability
- ◆ Economic Competitiveness
- ◆ Equity and Environmental Sustainability

These goals are being pursued under the principles of fostering equity and collaboration and

building organizational capacity at MassDOT. Each of the goals listed above is being tracked by a number of performance measures, many of which delve deeper into the original FAST Act Performance Measures, continued by the BIL. The 2023 Freight Rail Plan makes many recommendations under four broad strategies:

- ◆ Immediate Strategies
- ◆ Robust Strategies
- ◆ Hedging Strategies
- ◆ Shaping Strategies

Highlighted actions from each of these strategies include the following:

- ◆ Analyze and improve lighting conditions on corridors with higher rates of truck-involved crashes
- ◆ Improve safety at highway-railgrade crossings
- ◆ Incorporate rumble strips into new and existing interstate and rural roadways
- ◆ Establish framework for prioritizing multimodal freight projects with a focus on equity
- ◆ Emphasize the need for timely and accurate reporting of crash data involving freight vehicles or at-grade rail crossings
- ◆ More fully integrate freight planning into MassDOT activities
- ◆ Promote driver education on stopping distances when operating at higher speeds
- ◆ Promote road user education on safe vehicle operation and visibility around trucks
- ◆ Study and perform curbside demand management
- ◆ Explore and incorporate real-time and other new data sources to better understand freight movements
- ◆ Use critical freight corridors to support and advance projects that improve multimodal freight mobility
- ◆ Consider opportunities to improve MassDOT design guidance, policies and procedures to protect against extreme weather and reduce other contingencies
- ◆ Promote efforts to increase awareness of fatigue among truck drivers and operators
- ◆ Improve freight worker access to transit
- ◆ Support low-impact freight and industrial development in urban locations

- ◆ Support action to preserve industrial land uses in the Boston area
- ◆ Reduce the number of at-grade crossings
- ◆ Improve and preserve freight connections to/from Boston's waterfront freight facilities
- ◆ Encourage e-bike/cargo bicycle delivery
- ◆ Deploy safety upgrades in MassDOT fleets
- ◆ Deploy lateral protective devices (side guards) on MassDOT truck fleet
- ◆ Study and update building codes to allow for more efficient deliveries
- ◆ Study and modify municipal zoning codes to allow for neighborhood micro-hubs and other in-town warehouse spaces
- ◆ Support efforts to reduce distracted driving
- ◆ Study and support development of Advanced Air Mobility (AAM)

## 2018

### **State Rail Plan**

Finalized in 2018, the purpose of the State Rail Plan is to guide the future of the rail system and rail services in the state. This updates on the previous rail plan published in 2010. The Plan will be used as a blueprint to set policies and priorities, serve as a basis for federal and state rail investments, establish means of coordinating with adjoining states, private parties, and federal agencies, and meet the planning requirement established by the Federal Railroad Administration (FRA).

The long-term vision of the State Rail Plan focuses on several initiatives:

- ◆ Long-term Reliability and Resiliency
- ◆ Modernization
- ◆ Optimization
- ◆ Regional Balance

Rail investments were ranked into three tiers in the Plan: 1, 2, and 3. Tier 1 is described as being high priority for implementation. Tier 2 projects warrant further study. Tier 3 projects do not have any actions recommended at the time of writing. Projects that have been analyzed in Berkshire County include the Western Massachusetts to Boston Passenger Rail Service Study (East-West Rail), Berkshire Flyer Passenger Rail Service, and Housatonic Passenger Rail Service. All projects listed are in Tier 2 except for Housatonic Passenger Rail Service, which is in Tier 3.

Improvements and investments in the state rail system going forward under the State Rail Plan place a state-of-good-repair paradigm as a top priority. Investments are reflected predominantly in the state Capital Investment Plan (CIP). Besides the projects listed under Tiers 2 and 3 in Berkshire County, four at-grade crossing safety improvements on the Housatonic Line have been completed under the State Rail Plan.

### **Ongoing**

#### **East-West Rail and Northern Tier Rail Studies**

These feasibility studies are ongoing and are further discussed in **Chapter 4, Objective 3b**. As noted above in the State Rail Plan, implementation of an East-West passenger rail service from Boston to Western Massachusetts is listed as a Tier 2 project (warranting further study).

## **FEDERAL PLANS AND INITIATIVES**

### 2022

#### **National Roadway Safety Strategy**

The National Roadway Safety Strategy (NRSS) was released in January 2021 by the US Department of Transportation (USDOT). The NRSS lays out the national concern for rising fatalities and serious injuries on the roads and seeks to utilize a new Safe Systems approach to reduce these statistics to zero. The NRSS has five overall objectives that will work in concert to reduce deaths and injuries:

- ◆ **Safer People:** Encourage safe, responsible driving and behavior by people who use our roads and create conditions that prioritize their ability to reach their destination unharmed.
- ◆ **Safer Vehicles:** Expand the availability of vehicle systems and features that help to prevent crashes and minimize the impact of crashes on both occupants and non-occupants.
- ◆ **Safer Roads:** Design roadway environments to mitigate human mistakes and account for injury tolerances, to encourage safer behaviors, and to facilitate safe travel by the most vulnerable users.
- ◆ **Safer Speeds:** Promote safer speeds in all roadway environments through a combination of thoughtful, equitable, context-appropriate roadway design, appropriate speed-limit setting, targeted education, outreach campaigns, and enforcement.

- ◆ **Post-Crash Care:** Enhance the survivability of crashes through expedient access to emergency medical care, while creating a safe working environment for vital first responders and preventing secondary crashes through robust traffic incident management practices.

Per the USDOT, these five objectives were built atop the following principles of a Safe System approach:

- ◆ **Death and Serious Injuries are Unacceptable:** A Safe System Approach prioritizes the elimination of crashes that result in death and serious injuries.
- ◆ **Humans Make Mistakes:** People will inevitably make mistakes and decisions that can lead or contribute to crashes, but the transportation system can be designed and operated to accommodate certain types and levels of human mistakes, and avoid death and serious injuries when a crash occurs.
- ◆ **Humans Are Vulnerable:** Human bodies have physical limits for tolerating crash forces before death or serious injury occurs; therefore, it is critical to design and operate a transportation system that is human-centric and accommodates physical human vulnerabilities.
- ◆ **Responsibility is Shared:** All stakeholders—including government at all levels, industry, non-profit/advocacy, researchers, and the general public—are vital to preventing fatalities and serious injuries on our roadways.
- ◆ **Safety is Proactive:** Proactive tools should be used to identify and address safety issues in the transportation system, rather than waiting for crashes to occur and reacting afterwards.
- ◆ **Redundancy is Crucial:** Reducing risks requires that all parts of the transportation system be strengthened, so that if one part fails, the other parts still protect people.

The Safe Systems approach in Berkshire County is explored further in **Chapter 4 Objective 4a**. Investments in infrastructure, programs and staff resources will be needed to align the Berkshires with the eventual goal of zero deaths and serious injuries on our roads.

## 2019

### ***Rural Opportunities to Use Transportation for Economic Success (ROUTES) Initiative***

Per the USDOT, the ROUTES Initiative “seeks to address disparities in rural transportation infrastructure by developing user-friendly tools and information, aggregating USDOT resources, and providing technical assistance to rural and Tribal stakeholders. The ROUTES Initiative aims to ensure rural transportation infrastructure’s unique challenges are considered in order to meet priority transportation goals of safety, mobility, and economic competitiveness.”

The ROUTES initiative provides tools and resources for rural communities in the United States, such as Charging Forward Toolkit for Planning Rural Electric Mobility Infrastructure, as well as a rural applicant toolkit for other federal funding opportunities. The Berkshire region will work to stay informed of future opportunities arising from the initiative.

## **Levels of Government in Transportation Planning**

Long-range planning must involve a wide range of stakeholders from different levels of government. From the hyperlocal neighborhood organizations and nonprofits to municipal governments, regional organizations, MassDOT, and the federal government, the 3-C process takes into account all stakeholders for a region’s transportation plan. This section will highlight the different levels of government involved with the transportation planning process and the resources they provide.

### ***Local Organizations***

These groups may advocate for and advance the position of a particular neighborhood or district of a municipality. Building relationships with grassroots organizations is an invaluable asset for learning about current conditions on the ground in a particular area, and for helping to build support for studies and projects that could stand to benefit the area. Examples of local, advocacy, or grassroots organizations in the Berkshires include the United Neighbors Organization (UNO) in North Adams, and Downtown Pittsfield, Inc., Morningside Initiative and Westside Legends in Pittsfield.

### ***Municipal Governments***

Each town and city in Berkshire County is administered by a local government body. The body may

consist of a Select Board and/or Town Administrator, or a Mayor and City Council. Each municipality administers its locally-owned roadways through its Highway Department or Department of Public Works. These offices will receive funds directly from town budget line items and state Chapter 90 reimbursement (discussed below) to perform maintenance and construction activities on pavement, utilities, culverts, bridges, traffic signals, and other infrastructure. Transportation planners often will ascertain a town's transportation needs through its Master Plan, Complete Streets plan, outdoor recreation plan, corridor studies or other analyses that point to a town's long term priorities. These plans provide context and justification for larger budget priorities and requests from a regional planning agency or MPO in its Long-Range Transportation Plan (such as the RTP2024), Unified Planning Work Program (UPWP) and Transportation Improvement Plan (TIP).

### ***Regional Organizations***

Some entities span multiple communities in a region in order to provide shared services or to promote priorities that affect a larger area than one neighborhood or town. Examples of these kinds of organizations can include regional nonprofits such as Berkshire United Way, Northern Berkshire Community Coalition, 1Berkshire, Berkshire Natural Resources Council, Berkshire Bike Path Council, Berkshire Regional Planning Commission, and more. These entities help to provide a bigger picture of regional issues. They may also be providers or recipients of grants to provide assistance to other organizations. Regional school districts and chambers of commerce can also be found around Berkshire County.

### ***Metropolitan Planning Organization***

Metropolitan Planning Organizations (MPOs) are designated by the federal government to represent metropolitan areas and their transportation needs. Metropolitan areas may span multiple political jurisdictions, such as cities, counties, or states. The unique economic and political structures that historically comprised a metropolitan area often require a holistic view to solve current problems. The MPOs work to solve these unique challenges by bringing together representatives from across a region to make decisions related to regional planning priorities.

### ***State Department of Transportation (MassDOT)***

MassDOT is the state agency responsible for construction, maintenance and administration

of state-owned rights-of-way (ROW), bridges, tunnels, rails, and other infrastructure necessary for the safe and efficient movement of people and goods across the Commonwealth. Every state has an equivalent Department of Transportation, with examples in neighboring states being NYSDOT (New York), ConnDOT (Connecticut), and VTrans (Vermont). State DOTs serve as the immediate stewards of Federal highway dollars, through direct apportionment via legislation and grant programs that are either discretionary or distributed based on need via a funding formula. State DOTs may then pass funds further on to municipalities directly, via mechanisms like Chapter 90, the Municipal Pavement Program, and Complete Streets to name several examples in Massachusetts. MassDOT has several divisions with different functions: Highway, Rail and Transit, Aeronautics, the Registry of Motor Vehicles, and the MBTA mass transportation system.

### ***Federal Government***

The Federal Highway Administration (FHWA) and its parent department, the USDOT, help to set the direction of national transportation policy and budget priorities. While the federal government delegates all highway maintenance responsibilities to the states (i.e. there are no "federally owned" roads), Washington still holds significant sway over the design and prioritizing of our transportation system by distributing federal shares of transportation dollars to many large-scale transportation projects. Designs that utilize federal funding must adhere to specified design standards, usually promulgated through AASHTO and ITE.

Coordination between levels of government is an essential component of public planning. Building relationships with local, regional, state, and federal leadership allows work to be done on behalf of the residents who use the infrastructure every day. Taking full advantage of the resources allocated for a region like Berkshire County means being familiar with the plans and priorities of elected leadership at the state and federal level, as well as the needs and desires of local leaders representing their constituents. Public planning succeeds when resources are connected to a need that is expressed, or processes are made to work better for the residents they serve. It is an ongoing process, as plans and programs evolve and new priorities are put forward.







# 3

## **Regional Data & Context**

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## About Berkshire County

Berkshire County is located in the extreme western end of Massachusetts, bordered by Vermont to the north, New York to the west, and Connecticut to the south. The county is comprised of thirty towns and two cities with a total population of just over **129,000 residents**, according to the 2020 United States Census. It has a total land area of **926.9 square miles**, making it the second largest county in land area in the Commonwealth. This affords an average population density of 139 people per square mile. This number varies widely between Pittsfield, with an average of nearly 900 people per square mile, and many areas of the county that are not inhabited at all. **Map 3-1** provides a general overview of the political and geographic makeup of Berkshire County, along with the major road network.

The county is coterminous with the Berkshire Metropolitan Planning Organization (MPO), which is a more unique situation in Massachusetts. Only the Franklin Region Council of Governments (FRCOG) and the Cape Cod Commission (CCC) share a similar overlap. Despite this overlap, the Berkshire region is anything but homogeneous. The county itself is very tall and narrow from a north-south perspective, with its "height" at almost twice the distance of its "width." This means that some towns that share the same regional resources can be an hour's drive apart from one another.

Population centers in Berkshire County are generally concentrated along a central "spine" in the valleys, where rivers first powered textile mills—the region's first industries. Outside the valleys are the "hilltowns," less densely populated and at higher elevations than other parts of the region. See **Map 3-16** for a mapping of overall population density of the county.

This region of western Massachusetts is known for its high elevations, historic New England towns, pastoral landscapes, and cultural offerings that attract an international audience. The region is also familiar with the effects of de-industrialization, population decline, rural isolation and poverty, and the dichotomy of urban and rural living. These strengths and challenges define the landscape of Berkshire County in 2024.

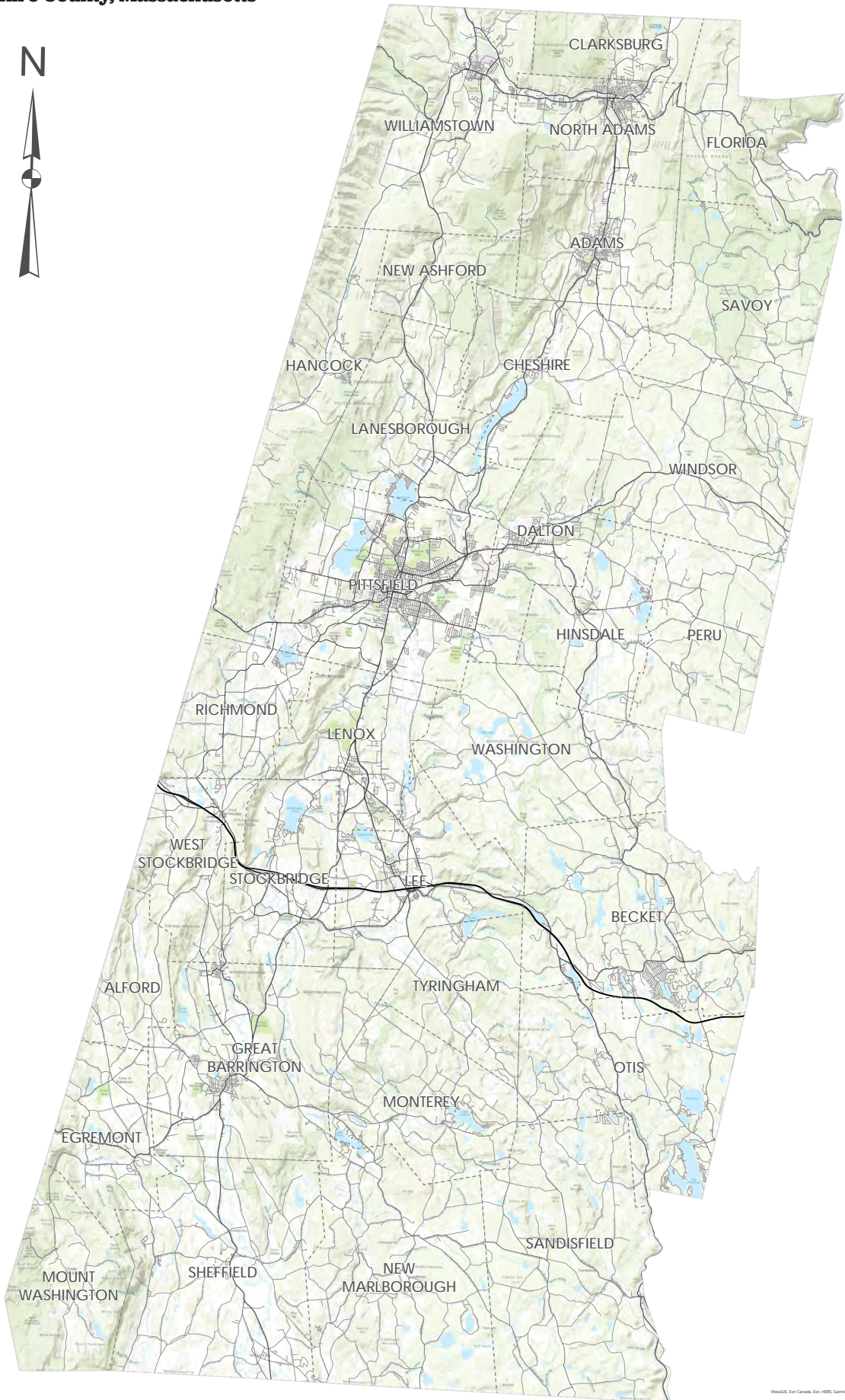
Travel around the region is mainly accomplished with personal automobiles. The Berkshire Regional Transit Authority provides fixed-route and paratransit bus service, predominantly in the more densely populated spine of the county. Connections outside of Berkshire County are made via a limited number of state highways that traverse the higher elevations of the hilltowns, east to the Connecticut River Valley and west to the Hudson Valley of New York. The Massachusetts Turnpike is the only Interstate route that serves the region, with exits in the towns of Lee and West Stockbridge.

Berkshire County experiences all four seasons to their fullest extents, with periods of cold winters and heavy snowfall, hot summers, wet springtimes, and autumn periods renowned for the vibrant foliage colors across the hills. Road maintenance is a year-round challenge, with highway crews kept busy with sanding, salting, and plowing roads in the winters, and patching potholes and repaving in the summer months. Berkshire towns also have many unpaved roads under their jurisdiction which require their own maintenance regiments. See **Map 3-2** for a map of the unpaved roads found in the region.

The story of Berkshire County in 2024 is one of a generally declining and aging population. Parts of the region remain popular as locations for second homes. See **Map 3-3** for an overview of the numbers of second homeowners in the region. Expansion of roads and infrastructure is generally not a priority of the region. Traffic volumes are generally flat or declining according to continuous count locations around the County. What matters most to residents is the reliability and maintenance of the existing road network in the region, ensuring access to resources for residents of all ages and abilities, especially those unable to drive, and transitioning to a more multi-modal and modern transportation system within our current framework.

The region's predominantly rural and low-density land use means that there will always be areas that cannot be fully served by public transportation or active transportation infrastructure (i.e. walking and cycling). As the population ages, shifts, and contracts, it is important to find opportunities to double down on what works, and focus resources on existing systems that can better support current residents and those that may move here in the future.

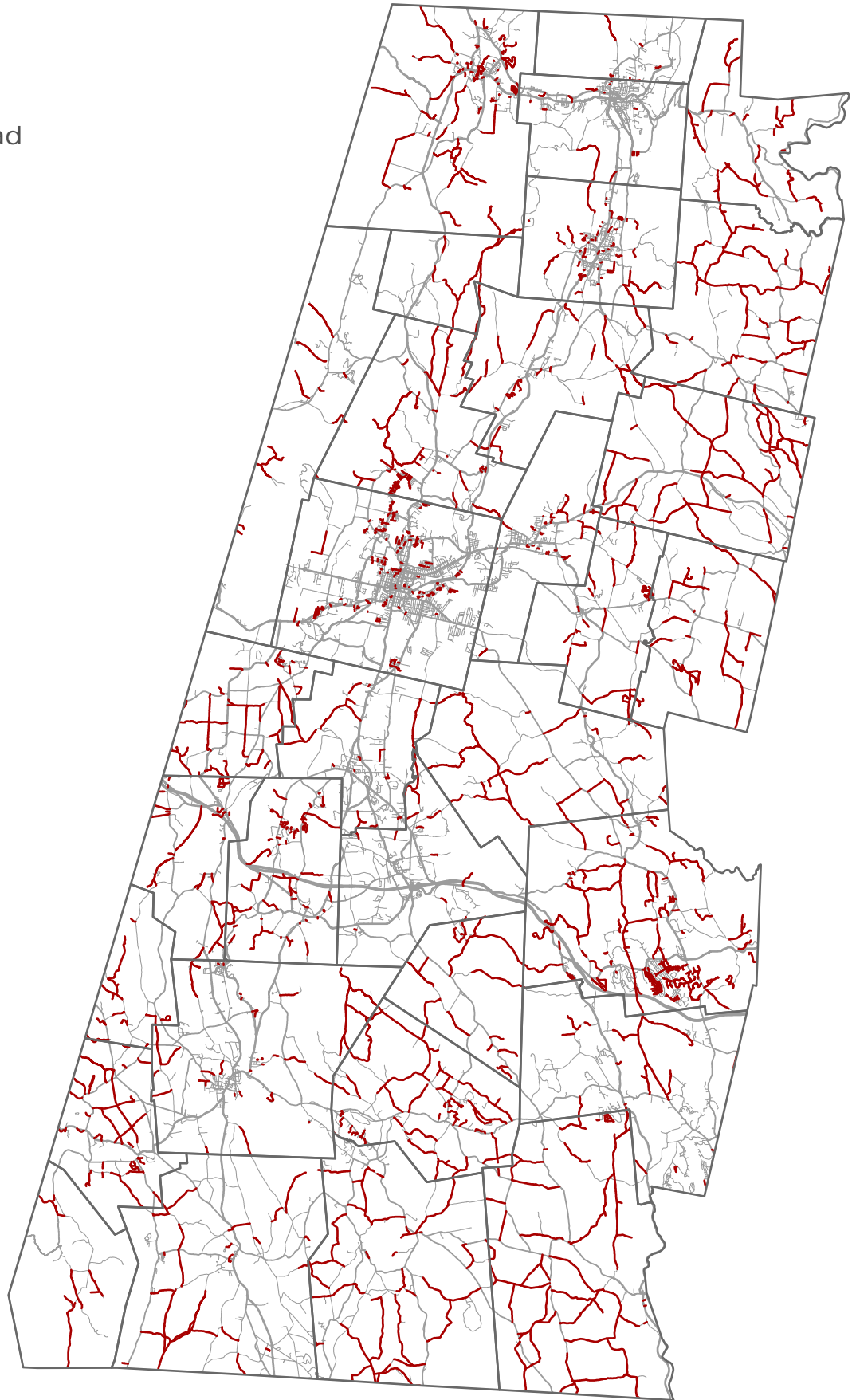
**Map 3-1: Berkshire County, Massachusetts**



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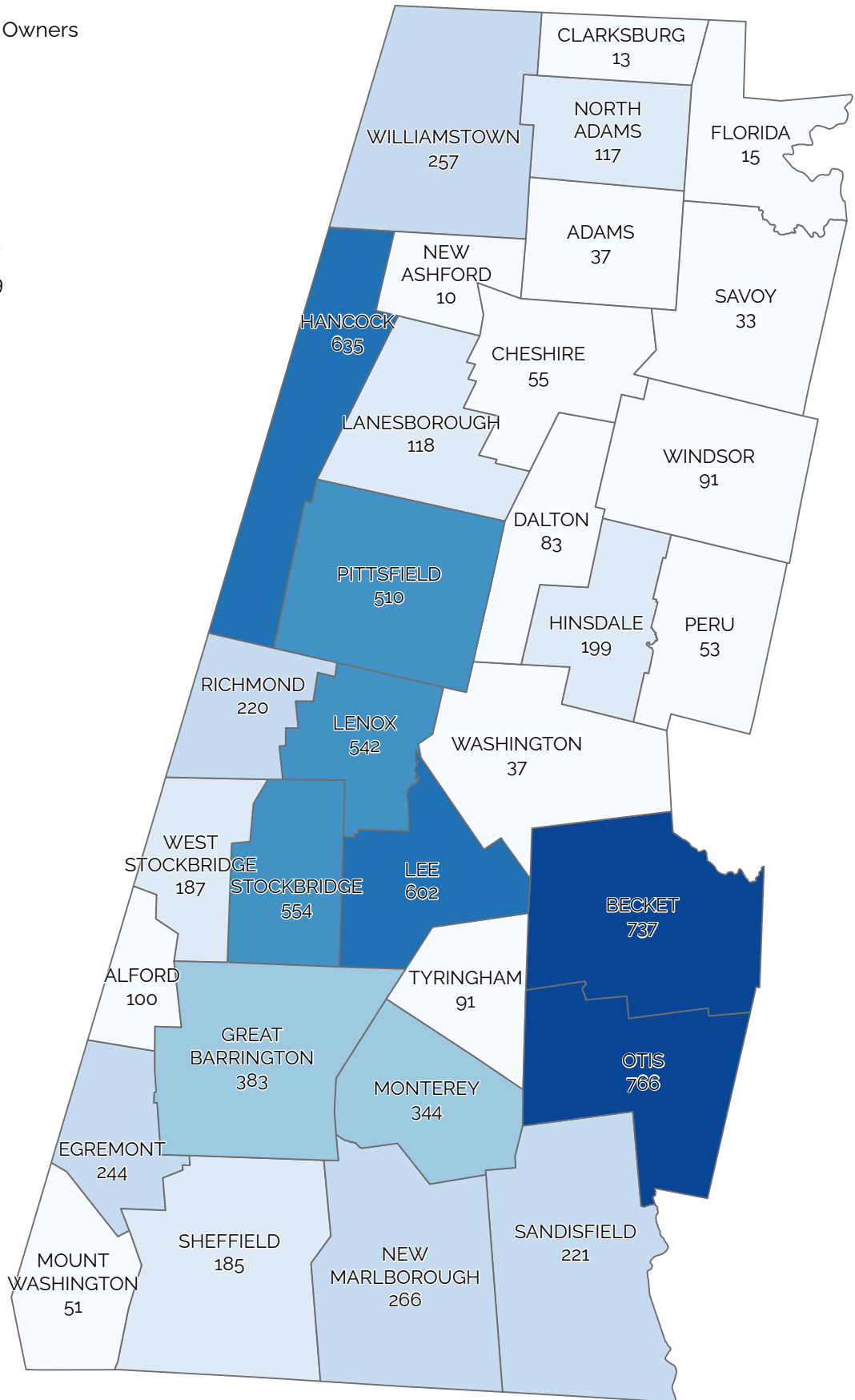
**Map 3-2: Unpaved Roads in Berkshire County**

— Unpaved Road



**Map 3-3: Number of Second homeowners per town in Berkshire County**

Second Home Owners



# Socioeconomic Data & Projections

## POPULATION TRENDS AND PROJECTIONS

Understanding the region's future transportation needs begins with understanding current and future population characteristics. Investments can be better targeted and supported by a foundational understanding of how the region's population is reasonably expected to change over the 20-year planning horizon.

The major population traits that are measured and projected include age, sex, and race. Population cohorts can include one or more of these traits to form a combined group that is tracked over time. For instance: white males age 20-24, or black females age 55-60. More general cohorts such as all people aged 20 to 24, or all females aged 55-60 can also be considered.

There are three major factors that change a population count over time:

- ◆ Birth rate
- ◆ Death rate
- ◆ Migration rate

Creating a reliable socioeconomic projections model involves gathering past trend data and contemporary findings for the above three factors. Applying rates between different cohorts will then provide overall projections for a given geographic area, such as a city, county, state, or nation.

The overall population of Berkshire County is expected to trend downward between 2020 and 2050. The number of households in the region will also decline, in turn (see **Figure 3-5**). By 2050, the Berkshire population is expected to decline by about 6.5%, in comparison to the state's overall population growth projected at 3.4%. The average household size is projected to be virtually unchanged: from 2.26 persons per household in 2020 to 2.25 persons per household in 2050.

### **Household Income**

Western Massachusetts is comparatively less wealthy than other parts of the Commonwealth. The median income for Berkshire County is \$60,749, compared to over \$89,000 as an average for Massachusetts. In 2020, over two-thirds of

Berkshire County's household incomes fell below the state median. Based on projections to 2050, it is expected that around 40% of households in Berkshire County will earn \$35,000 or less, in 2013 dollars plus inflation over 37 years. See **Figure 3-8** for a visual representation of household income proportions of Berkshire County. The majority of jobs in Berkshire County are expected to be in lower-wage sectors like hospitality, food, and personal care.

### **Aging Population**

Projections indicate that the cohort of Berkshire residents over age 65 will be increasing through 2030, and then begin to decline starting in 2040. This can mainly be attributed to the Baby Boom generation reaching the end of its average life expectancy. While the number of residents age 65+ will rise and then fall as a whole, the proportion of residents age 65+ is projected to plateau and remain fairly stable through 2050, as the population of Berkshire County overall declines and older populations my age in place. **Figure 3-4** to the right illustrates the expected percentages of residents over age 65 against the full Berkshire County population, with the trend line of the total county population superimposed.

## LABOR FORCE TRENDS AND PROJECTIONS

In addition to the residential population, it is prudent to count and project the number of employment opportunities and commuters who will be utilizing the transportation network. The labor force participation rate considers cohorts of working age, different levels of educational attainment, and living outside of group quarters such as dormitories or military installations.

### **Employment Projections**

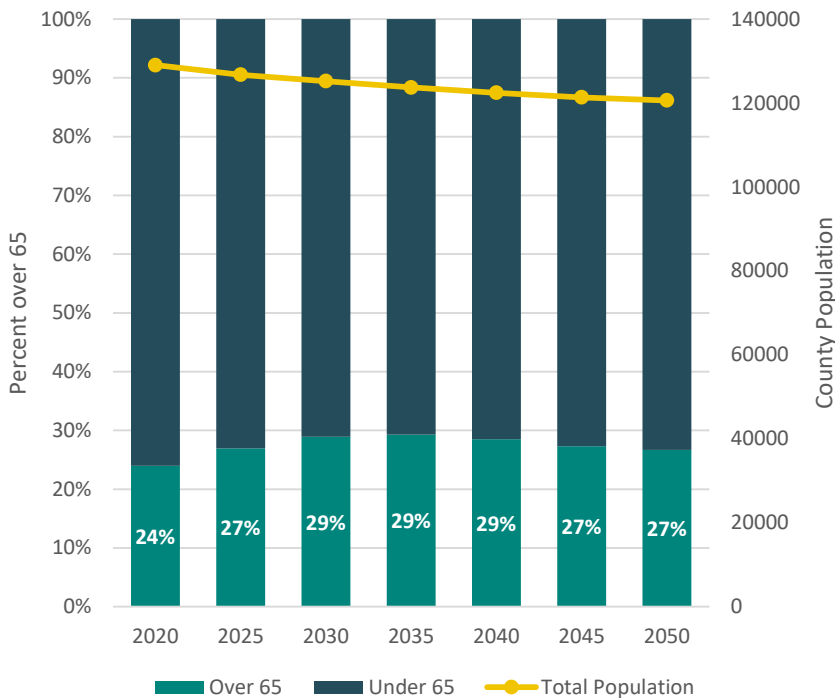
Figures for employment in the region are important for projecting transportation needs in the future, for several reasons.

An upward or downward projection in employment trends for towns will help to signal rush hour travel demand, especially between towns that may have high disparities between residential and workplace populations. Towns that have an increase projected for workplace sector numbers can reasonably expect to have more commuter traffic to those new employment opportunities. The reverse can also be said for municipalities with

a projected decrease in employment numbers. For Chapter 90 formula purposes, changes in employment figures may have a proportional impact in funds allocated to a municipality. More information about this road maintenance funding program can be found in **Chapter 4, Goal 1a**.

Finally, trends in employment sectors can help predict how land use patterns may change over time, and how demand could be met by planning in a sustainable way for facilities to meet those trends, such as new mixed-use and transit-oriented developments that can accommodate office, financial, institutional, and service sector jobs and the like.

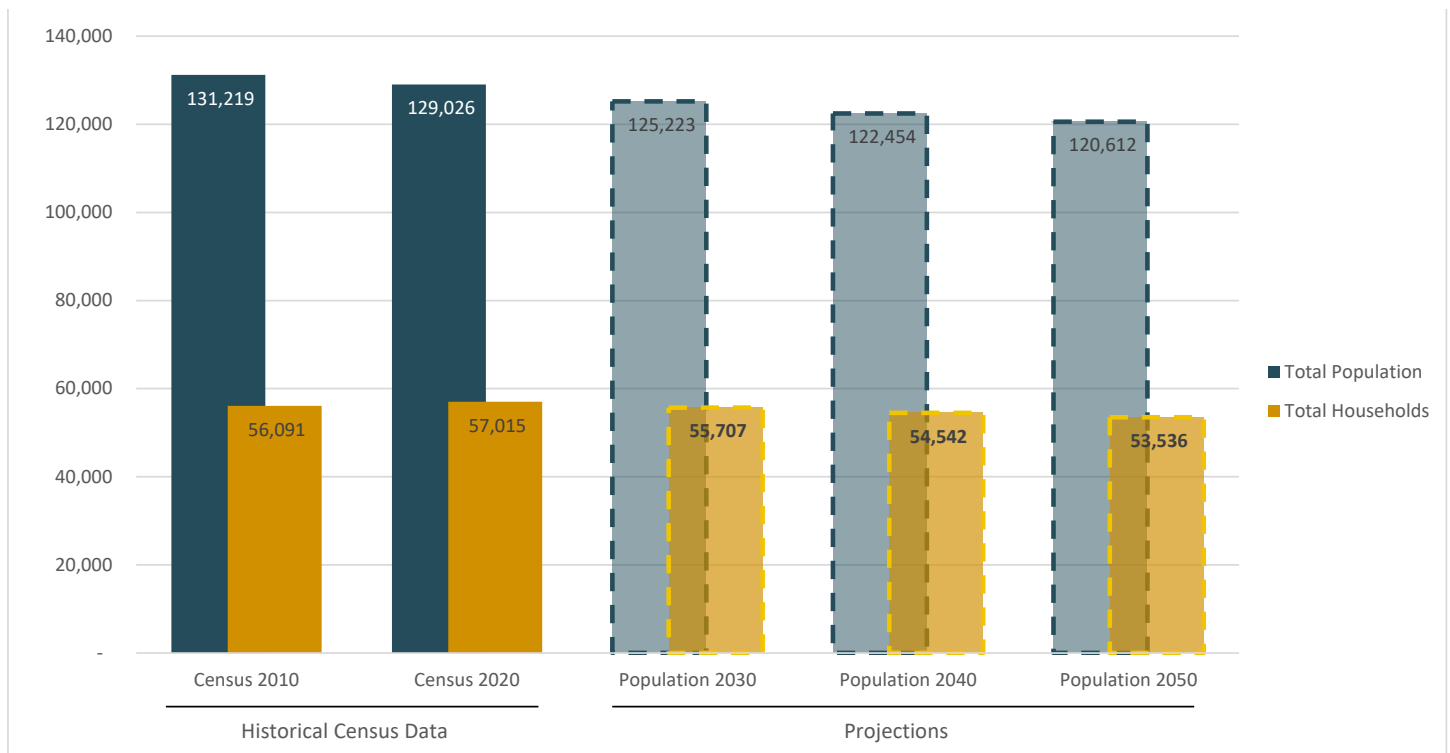
**Figure 3-4: Trends in population aging in Berkshire County**

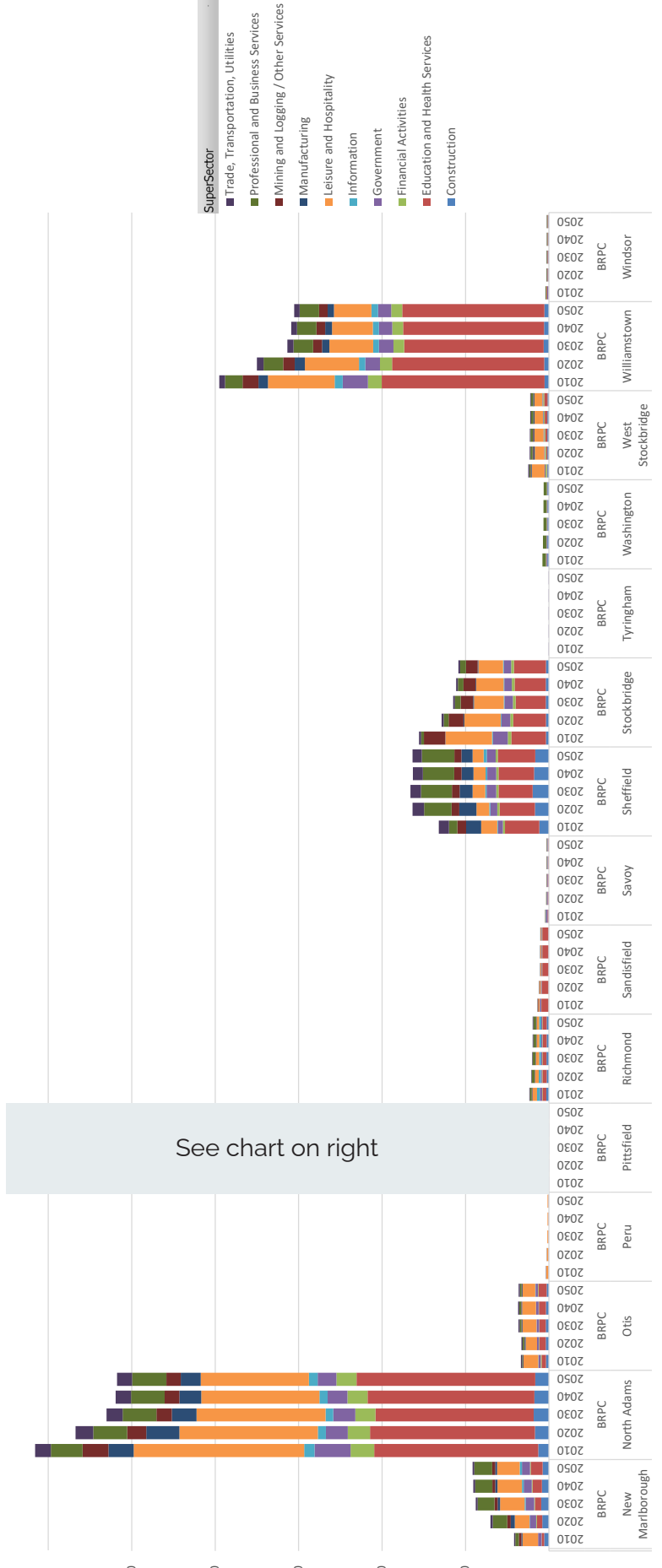
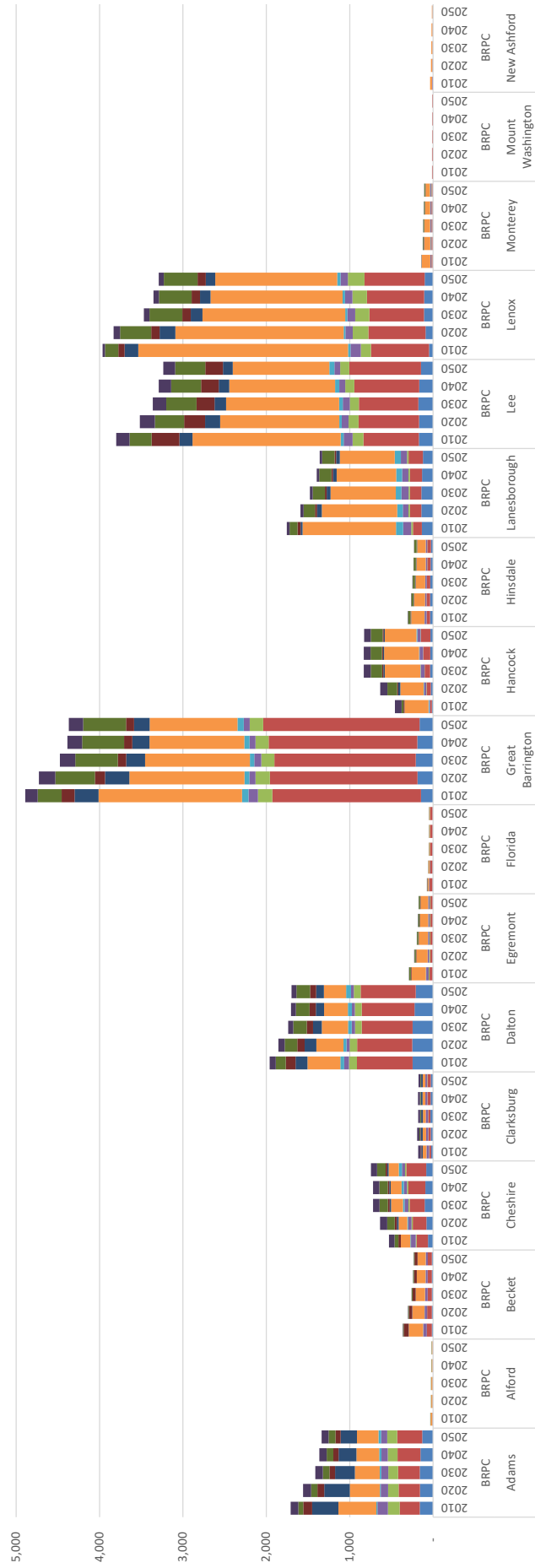


In general, workforce numbers in Berkshire County trend downward between 2020 and 2050. Individual sectors may be projected to grow in certain municipalities, such as the education and health services sector in Pittsfield. This growth does not offset the shrinkage in other sectors, however, and the city's employment base is expected to drop by approximately 1,700 workers by 2050.

Based on the employment figures provided by the UMass Donahue Institute and MAPC, the major employment centers of Berkshire County can be clearly seen. The municipalities with the highest numbers of jobs show the highest bars in the charts in **Figure 3-6**. The City of Pittsfield is presented as its own chart in **Figure 3-7**. The towns of Adams, Dalton, Lanesborough, Williamstown, and the City of North Adams host most of the employment

**Figure 3-5: Historic and projected population trends in Berkshire County. Source: UMass Donahue Institute**





See chart on right



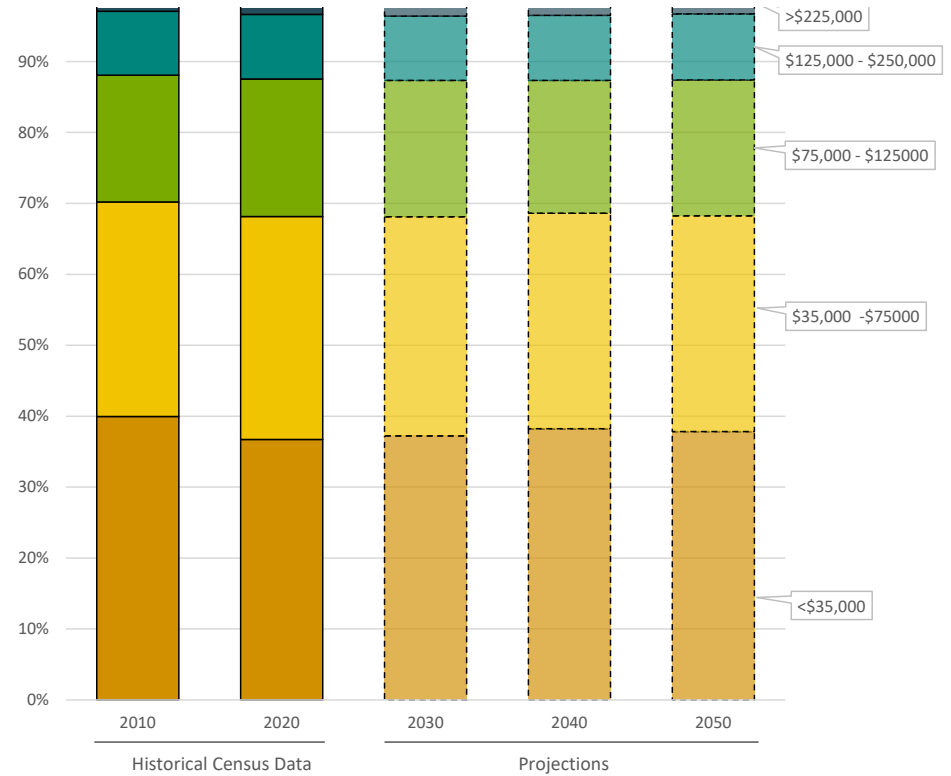
opportunities in northern Berkshire County.

In southern Berkshire County, Lee, Lenox, Great Barrington, Sheffield, and Stockbridge have the highest employment figures.

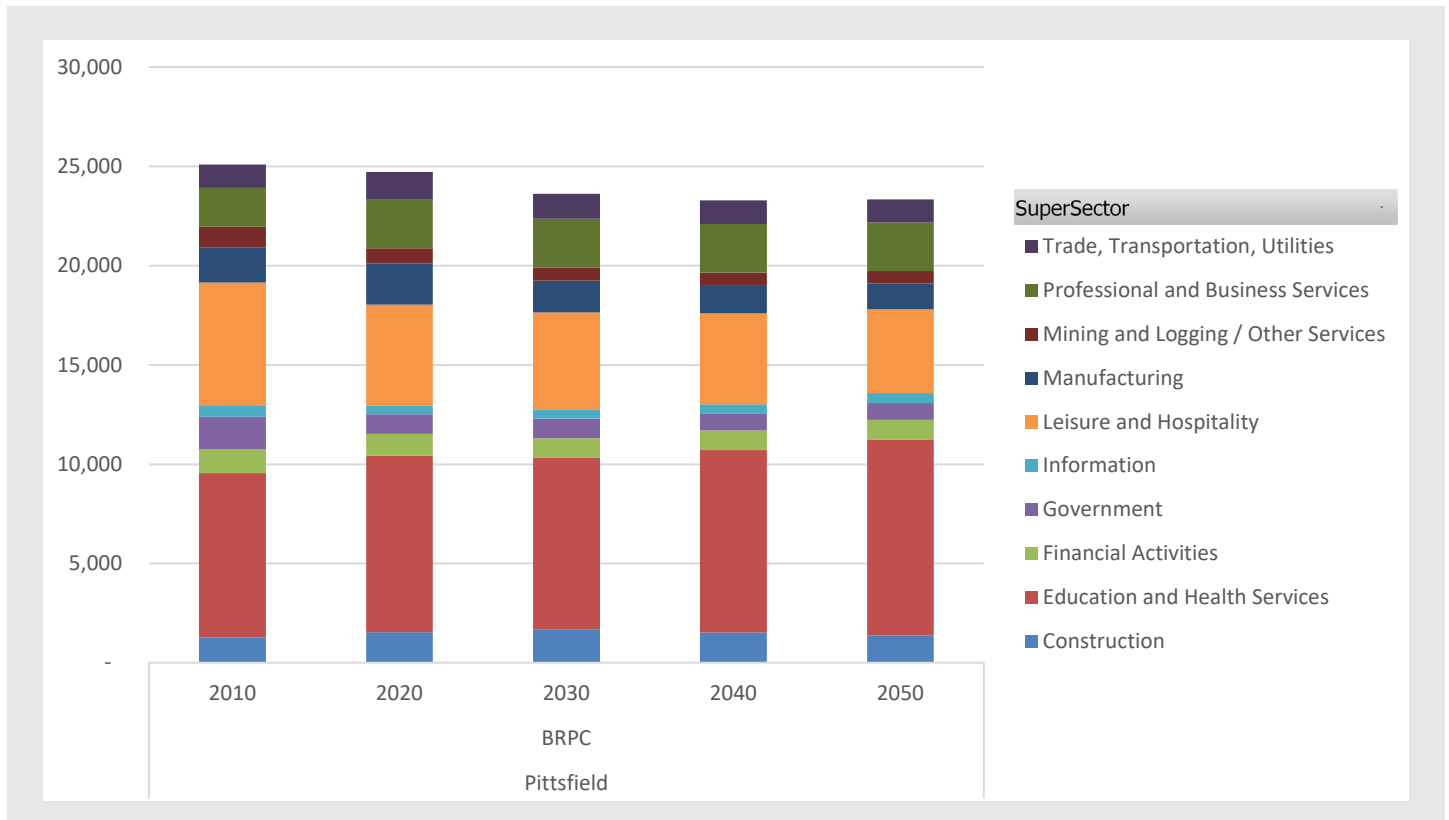
All major employment centers with the exception of Sheffield are projected to see decreases in workforce between 2020 and 2050. As noted, this impact could be felt in the number of commuter trips taken to these municipalities, along with changes in funds allocated to towns for road maintenance via Chapter 90. Finally, as employment figures drop, there could be a need for adaptive reuse of former workspaces that may downsize. The land-use and trip-demand changes from these adaptations should be considered from a sustainability and smart growth lens.

As the future of work focuses more on remote and hybrid job offerings where possible, this could signal

**Figure 3-8: Proportions of Household Incomes in Berkshire County, 2010-2050. Source: UMass Donahue Institute**



**Figure 3-6 (left): Workforce projections for Berkshire County municipalities (excluding Pittsfield) - 2010 - 2050**  
**Figure 3-7 (below): Workforce projections by supersector for Pittsfield, MA - 2010-2050**



a change in how we think about commuting and economic development in the region. Workforces may be more diffused throughout a region working from home, rather than concentrated in one office or central business district at predictable times of the day. Conversion of office buildings to mixed-use or residential will also have impacts on the trip generation, parking demand, and peak hours of travel in some neighborhoods.

## Environmental Justice

According to the Massachusetts Executive Office of Energy and Environmental Affairs (EOEEA), Environmental Justice (EJ) is “based on the principle that all people have a right to be protected from environmental hazards and to live in and enjoy a clean and healthful environment. EJ is the equal protection and meaningful involvement of all people with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies and the equitable distribution of environmental benefits.”

The purpose of the Environmental Justice policy is to ensure that projects undertaken and policies enacted in the Commonwealth do not have a disproportionately negative impact on Environmental Justice-designated populations. These populations are shown to have been historically disadvantaged and subjected to forms of environmental racism and discrimination. EJ populations are highlighted throughout the Commonwealth in areas where their density or concentration within Census Block Groups exceed a given threshold. There are four EJ population groups that are tracked by EOEEA:

- ◆ The annual median household income is not more than 65 per cent of the statewide annual median household income;
- ◆ Minorities comprise 40 per cent or more of the population;
- ◆ 25 per cent or more of households lack English language proficiency; or
- ◆ Minorities comprise 25 per cent or more of the population and the annual median household income of the municipality in which the neighborhood is located does not exceed 150 per cent of the statewide annual median household income

Beyond the categories listed above for EJ communities, MassDOT Transportation Planning also designates statewide Regional Economic Justice Plus (REJ+) communities. These Census block groups are considered to be additional areas of attention for transportation planning purposes when framing new policies and projects in the Commonwealth. REJ+ communities must already qualify for one or more of the “traditional” EJ community designations listed above. Taken together, EJ and REJ+ communities comprise the areas of Berkshire County where supplemental resources and analysis of the impacts of transportation plans and projects should be strongly supported. The factors considered for REJ+ communities include the following data points:

- ◆ Car ownership: Percent of households without an available vehicle  $\geq$  MPO 75th percentile
- ◆ Disability: Percent of households with one or more persons with a disability  $\geq$  MPO 75th percentile
- ◆ Age: Percent of individuals aged 65 or older  $\geq$  MPO 75th percentile

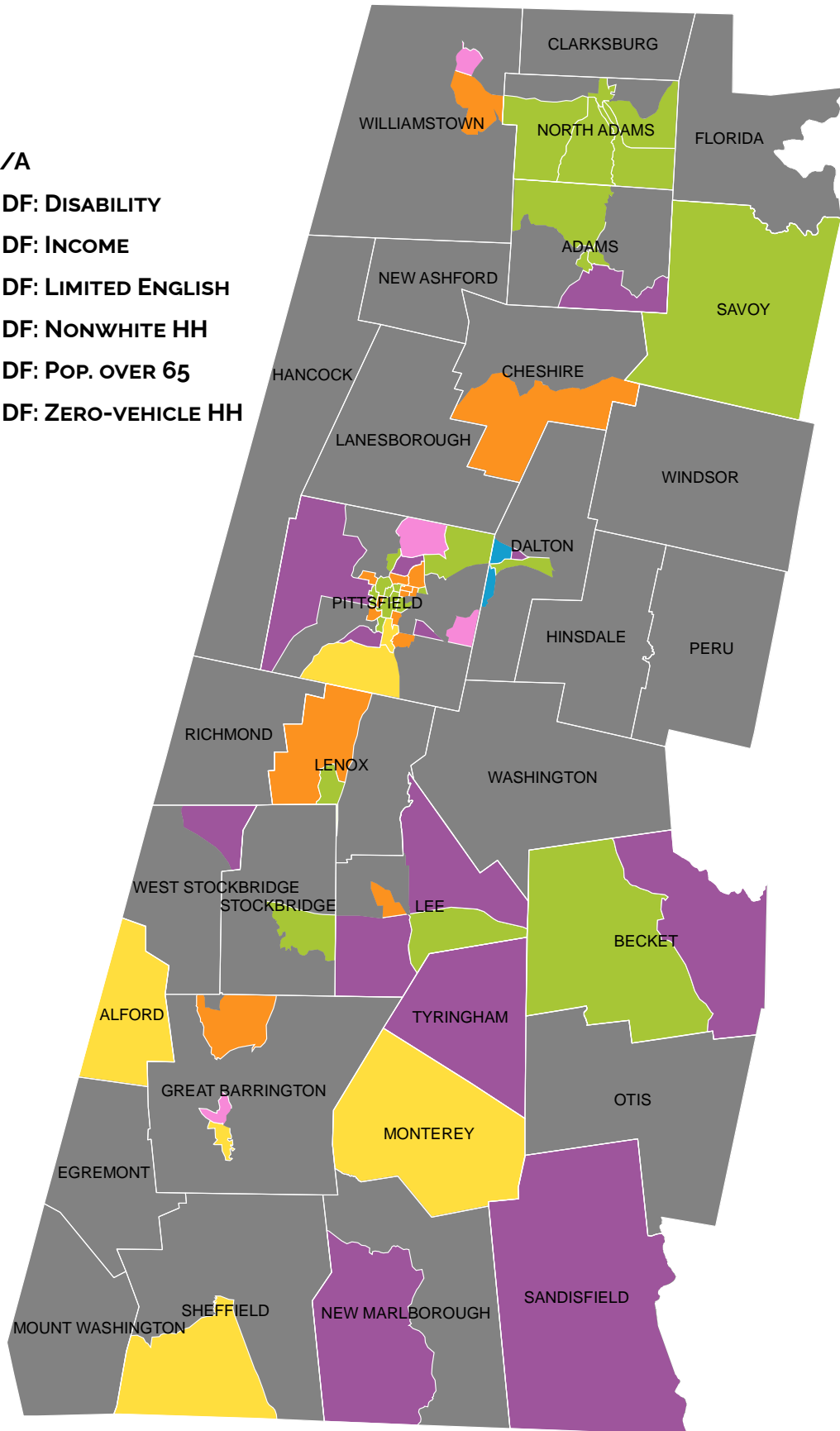
**Map 3-9** to the right illustrates all EJ and REJ+ communities that have been identified in Berkshire County. The colored Census block groups have been found to exceed at least one of the thresholds previously described in this section. The block groups are colored according to the Most Determinant Factor (MDF) found to exist in the group. That is to say, there may be other less prevalent EJ determining factors not shown.

To ensure that all people can fully participate in the planning process and have access to transportation services, the RTP outlines a number of items that support Environmental Justice and Title VI considerations. The Berkshire MPO adopted a Title VI Plan in June of 2014 that provides the framework for how BRPC complies with anti-discrimination laws as part of our transportation planning. Our Title VI plan outlines how the Berkshire MPO meets Title VI requirements stemming from the Civil Rights Act of 1964 and Environmental Justice compliance. Key elements of the Title VI Plan include establishing a Title VI Coordinator for BRPC, increasing opportunities for all individuals to be involved in the BRPC’s planning and programming processes, procedures for filing complaints, and augmenting outreach efforts to Title VI and Environmental Justice populations.

**Map 3-9: Regional Environmental Justice Plus (REJ+) communities in Berkshire County (via MassDOT)**

**REJ+**

- N/A
- MDF: DISABILITY
- MDF: INCOME
- MDF: LIMITED ENGLISH
- MDF: NONWHITE HH
- MDF: POP. OVER 65
- MDF: ZERO-VEHICLE HH



# Travel in the Region

Data on how people get around Berkshire County comes in many forms. How travelers get to their destinations, how long it takes, how far they travel, and what roads they travel on are all important data points to consider. In terms of the number of people traveling, most Berkshire continuous count locations demonstrate a flat or decreased traffic volume over the past five years. It is difficult to definitively post a trend due to the steep declines in vehicle miles traveled (VMT) during the travel restrictions of the COVID-19 pandemic in 2020. Most of the observed increases in traffic volumes recently reported by traffic count locations are simply returns to existing traffic volumes, as travel re-opened over the course of 2021 and 2022.

## VEHICLE MILES TRAVELED (VMT) AND VOLUME TRENDS

The aggregate number of miles traveled by all vehicles in a given area is defined as Vehicle Miles Traveled, or VMT. VMT is typically expressed year-over-year and can be aggregated nationally or across certain jurisdictions. **Figure 3-10** illustrates the long-term trend of VMTs year-over-year in the United States. VMT can be affected by the number of vehicles on a road, or the distance each vehicle travels. For example, ten vehicles that travel ten miles each would constitute 100 VMT. Two vehicles traveling 50 miles each would also constitute 100 VMT. VMT is a useful metric for getting overall trends for how much Americans are traveling. An increasing VMT rate translates to more tires and more wear and tear on the roads. Higher VMTs also translate to higher risks of crashes, as more vehicles are on the road

for longer periods of time. This is sometimes referred to as potential "exposure" to crash risk.

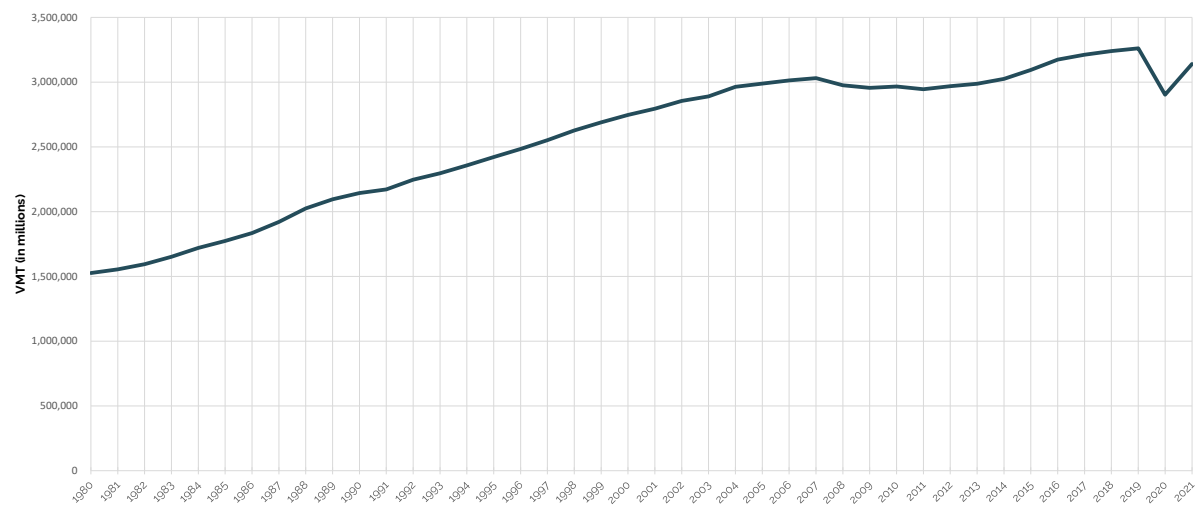
For Berkshire County, VMTs are aggregated by MassDOT through a combination of physical vehicle counts and a mathematical travel demand model. As with traffic volumes in general, VMTs were affected by travel restrictions from the COVID-19 pandemic in 2020. Counts are available for Berkshire County in the years 2017, 2019, 2020, and 2021. Data for 2022 is not available at the time of writing. The VMT totals for Berkshire County by year are summarized in **Figure 3-11** below. The counts are expressed in millions of VMTs.

Traffic volumes are collected in many areas of the region, in order to get a sense of general trends in travel patterns and wear and tear on the roads. At the time of writing, there are 16 continuous count locations in Berkshire County that regularly collect traffic volume data. Traffic volumes can fluctuate day-to-day, depending on the day of the week, time of year, or whether a special event or detour is taking place. While daily traffic counts can be useful when looking at a specific intersection or corridor, continuous counts are generally normalized to a measure of Average Annual Daily Traffic, or AADT. This provides an average number of vehicles expected to pass this counting location on any given day, and is simply the total number of vehicles counted in a year divided by 365. The AADT data for continuous count locations in the Berkshires are summarized in **Figure 3-12**.

**Figure 3-11: Berkshire VMT data per year (MassDOT)**

Berkshire County VMT data					
Year	2017	2018	2019	2020	2021
VMT	4.256 M	--	3.986 M	3.391 M	3.703 M

**Figure 3-10: Annual Vehicle-Miles Traveled (VMT) in the United States, 1980-2021**



## COMMUTING MODE-SHARE

The means of travel to work is collected by the US Census Bureau's American Community Survey (ACS). This survey utilizes a sample of a given area's population to draw trends and patterns more frequently than the full 10-year Census. As such, margins of error are typically wider, especially for towns with small populations like in the Berkshires. For all Berkshire towns and cities, driving alone is the predominant form of journeys to work. Working from

home is also emerging as a trend after the travel and gathering restrictions of the COVID-19 pandemic in 2020. Working from home has historically been higher-reported in some parts of Berkshire County with the predominance of agricultural and family-run businesses. The town with the highest reported rate of working from home was New Marlborough at 34% of the working population. The percentages of commuting mode-shares by town are presented in **Figure 3-13**, utilizing the most recent ACS 5-year estimates last gathered in 2021.

**Figure 3-12: Continuous traffic count locations in Berkshire County with latest AADT observations**

Loc ID	Community	Functional Class	Rural or Urban	On	Approach	At	LRS ID	Latest AADT	Latest Date	5-year Trend*
1	Pittsfield	(3) Other Principal Arterial	U	CHESHIRE ROAD		S.OF LANESBORO T.L.	SR8 NB	15975	6/10/2023	Decreasing
1171	Sheffield	(3) Other Principal Arterial	R	SOUTH MAIN STREET	AT	CONNECTICUT STATE LINE	US7 NB	5854	6/10/2023	Decreasing
1178	Lanesboro	(4) Minor Arterial	R	WILLIAMSTOWN ROAD	NORTH OF	BAILEY ROAD	US7 NB	4418	6/5/2023	Flat
1179	Lenox	(3) Other Principal Arterial	U	VETERANS MEMORIAL HIGHWAY	SOUTH OF	Route 7A	US7 NB	19500	5/31/2023	Decreasing
1181	Sandisfield	(4) Minor Arterial	R	SOUTH MAIN STREET	SOUTH OF	ROOSTERVILLE ROAD	SR8 NB	3671	6/10/2023	Flat
1182	Windsor	(3) Other Principal Arterial	R	BERKSHIRE TRAIL	EAST OF	SAVOY HOLLOW ROAD	SR9 EB	4052	6/7/2023	Decreasing
1183	Sheffield	(3) Other Principal Arterial	R	ROUTE 7	SOUTH OF	GREAT BARRINGTON T.L.		6200	6/10/2023	Flat
125	Savoy	(5) Major Collector	R	MAIN ROAD	WEST OF	PLAINFIELD T.L.	SR8A-L NB	1633	6/10/2023	Flat
140	Clarksburg	(5) Major Collector	R	RIVER ROAD		VERMONT STATE LINE	SR8 NB	2715	6/10/2023	Flat
155	Great Barrington	(5) Major Collector	R	MONTEREY ROAD	WEST OF	Monterey T.L.	SR23 EB	2965	5/2/2023	Decreasing
162	North Adams	(3) Other Principal Arterial	U	HOWLAND AVENUE	AT	ADAMS	SR8 NB	13937	6/10/2023	Flat
189	Stockbridge	Collector	R	ROAD	SOUTH OF	Lenox T.L.	NB	2689	6/10/2023	Flat
1950	Hancock	(5) Major Collector	R	HANCOCK ROAD	NORTH OF	NEW YORK STATE LINE	SR43 NB	3904	6/9/2023	Increasing
2	Lee	(3) Other Principal Arterial	U	CHAPEL STREET		E.OF JCT.OF RTES.20 & 102	US20 EB	6720	6/10/2023	Decreasing
40	Lenox	(3) Other Principal Arterial	R	Rtes. 7 & 20	NORTH OF	RTE.7A JUNCTION		23115	6/10/2023	Decreasing
AET01	Lee	(1) Interstate	U	MASS TURNPIKE	WEST OF	STOCKBRIDGE	I90 EB	33174	6/9/2023	Increasing

\*Difference between 2018 and 2022 volumes, disregarding decreases incurred in 2020

Data source: MassDOT Traffic Data Viewer

**Figure 3-13: Means of travel to work by percentage of total commuters (US Census Bureau)**

Municipality	Total Commuters:	Car, truck, or van - drove alone:	Car, truck, or van - carpooled:	Public transport (excluding taxicab):	Walked:	Taxicab, motorcycle, bicycle, or other means:	Worked from home
Adams	3,817	81%	10%	0.4%	2%	0.9%	6%
Alford	193	63%	21%	3.1%	2%	1.6%	9%
Becket	1,135	78%	8%	1.0%	3%	1.1%	9%
Cheshire	1,473	87%	4%	0.0%	4%	0.0%	4%
Clarksburg	907	84%	11%	0.1%	1%	0.0%	3%
Dalton	2,977	82%	12%	2.3%	0%	0.4%	3%
Egremont	872	74%	5%	0.2%	2%	0.0%	18%
Florida	386	85%	10%	0.0%	0%	0.0%	5%
Great Barrington	3,543	63%	7%	0.5%	11%	2.1%	17%
Hancock	365	87%	4%	0.0%	0%	3.6%	5%
Hinsdale	838	94%	5%	0.0%	0%	0.0%	0%
Lanesborough	1,588	73%	17%	0.6%	6%	0.0%	4%
Lee	2,927	89%	3%	0.4%	2%	0.0%	5%
Lenox	1,987	78%	0%	2.1%	1%	0.9%	18%
Monterey	359	77%	0%	1.1%	1%	7.2%	14%
Mount Washington	90	59%	23%	0.0%	2%	0.0%	16%
New Ashford	135	82%	4%	0.0%	1%	1.5%	11%
New Marlborough	709	56%	3%	5.6%	1%	1.0%	34%
North Adams	5,980	73%	8%	1.1%	11%	0.4%	7%
Otis	777	79%	3%	2.6%	1%	0.0%	14%
Peru	458	88%	9%	0.0%	1%	0.2%	2%
Pittsfield	20,895	79%	9%	2.1%	3%	1.1%	6%
Richmond	797	81%	10%	0.0%	1%	0.0%	9%
Sandisfield	430	73%	6%	0.0%	1%	0.0%	20%
Savoy	325	91%	5%	0.0%	2%	0.9%	1%
Sheffield	1,808	74%	12%	0.0%	4%	1.5%	8%
Stockbridge	694	60%	0%	0.9%	20%	0.0%	19%
Tyringham	300	69%	8%	1.7%	8%	1.0%	12%
Washington	254	79%	3%	0.8%	2%	1.2%	14%
West Stockbridge	605	76%	3%	0.0%	0%	0.0%	21%
Williamstown	3,647	42%	4%	0.7%	36%	3.0%	14%
Windsor	574	78%	9%	0.0%	0%	1.2%	11%

**Data source: American Community Survey (ACS) 5-year estimates, 2017-2021**

## ROAD JURISDICTION

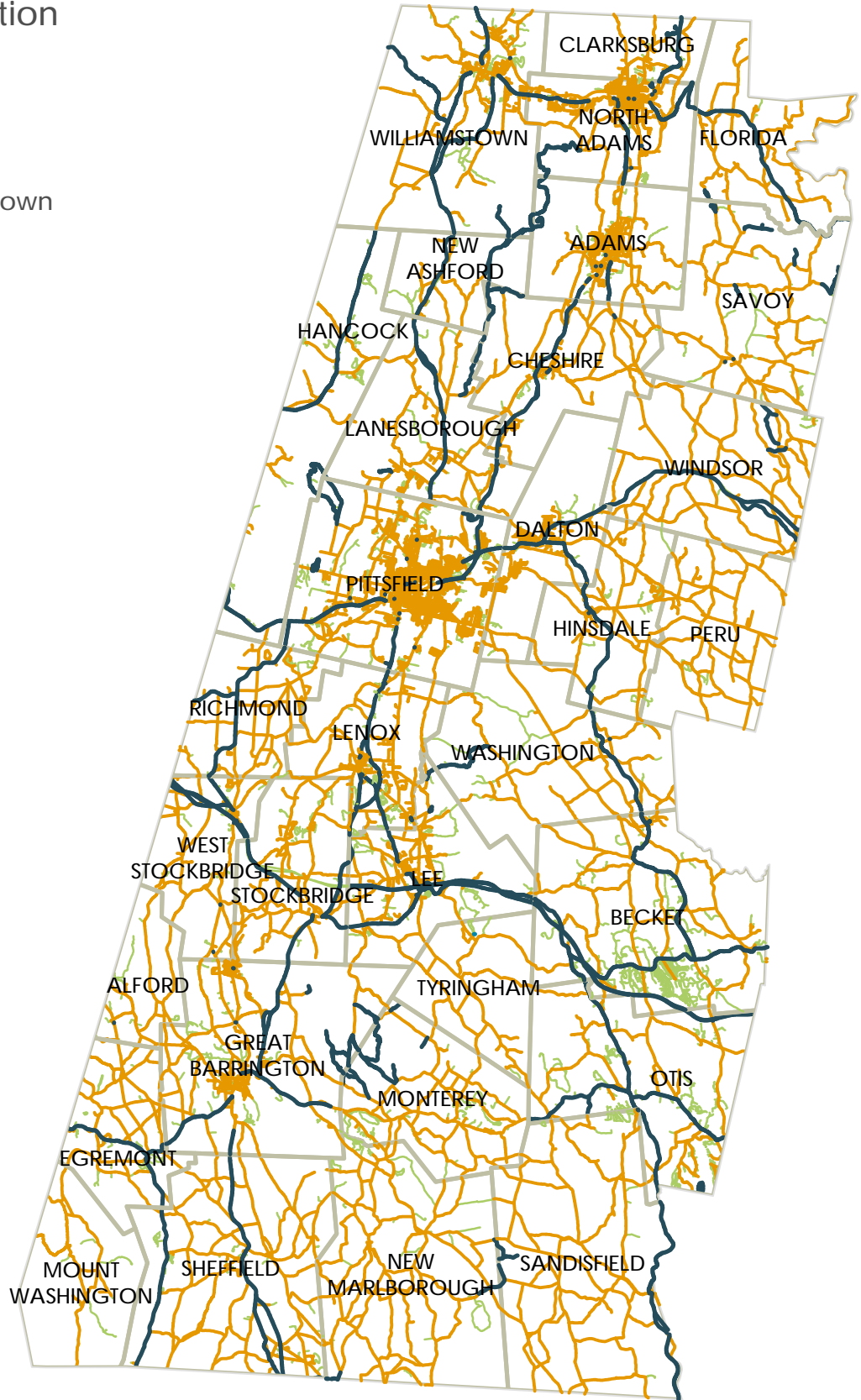
When driving, walking, or cycling in Berkshire County, one will almost certainly be traveling on a road with either local or state jurisdiction. The jurisdiction, or ownership, of a road lays out who is responsible for maintenance, improvements, upgrades, or other work on the road. To the traveling public, the jurisdiction of a road is not of immediate concern. Usually the only indication that a

road is under MassDOT jurisdiction would be the presence of mile marker signs alongside the roadway at regular intervals. Travelers may also notice "State Highway Begins/Ends" signs near certain junctions in the region. These also indicate where a road transitions from MassDOT to local jurisdiction or vice-versa. It is also possible for a road under state jurisdiction to not have these indicators. **Map 3-14** provides an overview of the State and Municipal jurisdiction roads in Berkshire County.

**Map 3-14: Road jurisdiction in Berkshire County**

## Road Jurisdiction

- State
- Municipal
- Private/Unknown



This map was created by the Berkshire Regional Planning Commission and is intended for general planning purposes only. This map shall not be used for engineering, survey, legal, or regulatory purposes. MassGIS, MassDOT, BRPC or the municipality may have supplied portions of this data.

Prepared in cooperation with the Massachusetts Department of Transportation and the U. S. Department of Transportation. The views and opinions of the Berkshire Regional Planning Commission express herein do not necessarily state or reflect those of the Massachusetts Department of Transportation or the U. S. Department of Transportation.

While it may not be important in day-to-day travel what the jurisdiction of a certain road is, for long-range planning and decision making, it is imperative to know who owns a certain road, so that the right partners can be brought in to solve the problem. Locally-owned roads are maintained by a municipality's highway or public works department. MassDOT-owned roads are maintained by the agency's Highway Division, with support from other entities like the Office of Traffic Safety, Bridge Engineer, and local District offices.

Of the approximately **1,867 miles** of accepted streets and roads in Berkshire County, **1,589 miles (85%)** are under the jurisdiction of local municipalities, and **278 miles** are under MassDOT jurisdiction.

Depending on the jurisdiction of a given road, different resources for funding and technical assistance may be available for road construction. Roads that are under the jurisdiction of municipal highway departments are eligible to be funded by the Chapter 90 program, which is a state funding mechanism to distribute resources to each town and city based on its population, local road mileage, and workforce. Chapter 90 funds can only be used on local roads, and cannot be directed toward projects on state DOT jurisdiction roads. The Complete Streets program is another example of funding that can only be directed toward locally-administered roads. The Municipal Pavement Program is a unique resource that targets locally-administered roads with a state or national numbered route. MassDOT administers this program and prioritizes roads for the program with its own ranking model.

Projects that are on the Transportation Improvement Program (TIP) listing may be under either local or state DOT jurisdiction. Projects may qualify for the TIP if they are eligible for federal aid. See **Goal 1a - Maintain Pavement Conditions** for more information about what makes a road federal-aid eligible.

Finally, some road improvement resources are only directed toward roads that are under MassDOT jurisdiction. This includes any improvement or maintenance projects for Interstate highways. Most bridges beyond 20 feet in span length are under the jurisdiction of MassDOT, and are maintained with a separate pool of funding. See **Goal 1b - Maintain Bridge Conditions** for more information about bridge improvement programs in the region.

## Land Use

Transportation and land use are inherently linked, as demand for trips on a road changes based on the intensity and function of land parcels served by the road. Prior to widespread adoption of automobile use, land development was clustered around areas of commerce or natural resources. As more consumers acquired cars in the 20th century, land that had historically been unsuitable for development was subdivided and sold, with new roads built out to these developments. These developments were not planned with transit use or walkability in mind, and today they still prove difficult to reach without a car.

In Berkshire County, the vast majority of land remains undeveloped, with many acres permanently protected. Large conservation areas like the Mount Greylock State Reservation, October Mountain State Park, Beartown State Forest, Clarksburg State Forest, and many other lands held publicly or privately create the natural landscape that the Berkshires are renowned for. Currently less than 10% of the land within Berkshire County is developed. **Figure 3-15** below summarizes the proportions of different land uses in the region.

**Figure 3-15: Land Use in Berkshire County as of 2016**

Land Use Category	Acres	%
Bare Land	2320.6	0.38%
Commercial	1471.2	0.24%
Cultivated	31930.4	5.20%
Deciduous Forest	299292.8	48.70%
Developed Open Space	25747.9	4.19%
Evergreen Forest	165676.4	26.96%
Forest	25.5	0.00%
Grassland	12699.4	2.07%
Industrial	670.9	0.11%
Mixed use, other	288.4	0.05%
Mixed use, primarily commercial	22.0	0.00%
Mixed use, primarily residential	360.7	0.06%
Open land	664.5	0.11%
Wetland	41842.8	6.81%
Recreation	15.2	0.00%
Residential - multi-family	1437.3	0.23%
Residential - other	49.4	0.01%
Residential - single family	4772.2	0.78%
Right-of-way	7335.3	1.19%
Scrub/Shrub	3166.8	0.52%
Tax exempt	2566.3	0.42%
Water	12220.5	1.99%



Growth in the region boomed following World War II and continued into the 1990s. During this time, residential development exploded in the form of new neighborhoods and housing. According to the Sustainable Berkshires Plan, prior to 1950, most residential units in the Berkshires were built in lots less than 0.25 acres. Between 1950 and 1974 most residential units were built on lots .25-.50 acre. Since 1975 this trend changed significantly with many homes built on lots greater than 5 acres. Since 2000, 33% of the residential units built in Berkshire County have been built on lots greater than 5 acres. Based on zoning, most homes since 1975 have been built in 1-2-acre zoning districts, even though the actual lot size is over 5 acres. Thus, new housing development is increasingly focused on very-low density development at the periphery of higher density city and village centers. However, our region has seen development pressure largely subside since the early 2000's. Nearly all new housing units in the region since the early 2000's have been in the form of single-family large lot homes in rural areas. The majority of respondents to the Transportation Community Survey reported a desire or vision of living in a detached home on a larger lot, indicating a rural land use and lifestyle is likely to remain popular.

### ***Considerations for historic redevelopments***

Redevelopment of former industrial and commercial properties presents a contemporary challenge for traditional transportation planning practices. Mill buildings that have been converted to residential or mixed use present new types of travel demands that the towns where they are situated have not previously seen. When the mills were originally in use, they were large attractors for workforces and commerce. The mills were dense uses of land, but had their heyday before the time of widespread automobile use. Mill workers typically walked to work and lived in worker housing nearby. Now, this paradigm is flipped, where workers are living in the mills and working elsewhere, but also will very likely have a car for transportation. Developers involved with large-scale mill and industrial redevelopments are highly encouraged to coordinate with the Berkshire MPO and MassDOT to conduct traffic impact analyses and implement effective mitigation measures.

### ***Considerations for commercial strip zoning***

Zoning is the codification of land use, and signals the priorities that a municipality has for its

land. A major challenge being faced today in the transportation-land use paradigm is where and how to site commercial land uses. Historically, the "Main Streets" of towns and cities served as their commercial centers. As economies of scale grew during the post-WWII years of population growth, commercial outlets like supermarkets, department stores, and shopping centers looked to occupy cheaper parcels of land outside of city centers in order to grow. The rise of automobile ownership made it possible for consumers to access this land. As more high-intensity land uses like big-box retail, entertainment centers, and strip malls sprung up on cheap land along formerly rural highways, their regional draw brought unprecedented levels of traffic to the surrounding roads. Traffic engineers in turn, widened the roads, installed new traffic signals, and raised speed limits to help move traffic through the area. These areas have become the commercial strip zones that define postwar American suburbs, and are also host to some of the most dangerous roads in the nation.

Commercial strip zones in the Berkshires include areas in several municipalities:

- ◆ Dalton Ave and Merrill Road in Pittsfield
- ◆ Pittsfield-Lenox Road in Pittsfield and Lenox
- ◆ Howland Avenue in Adams
- ◆ Stockbridge Road in Great Barrington
- ◆ Route 2/Mohawk Trail in Williamstown and North Adams

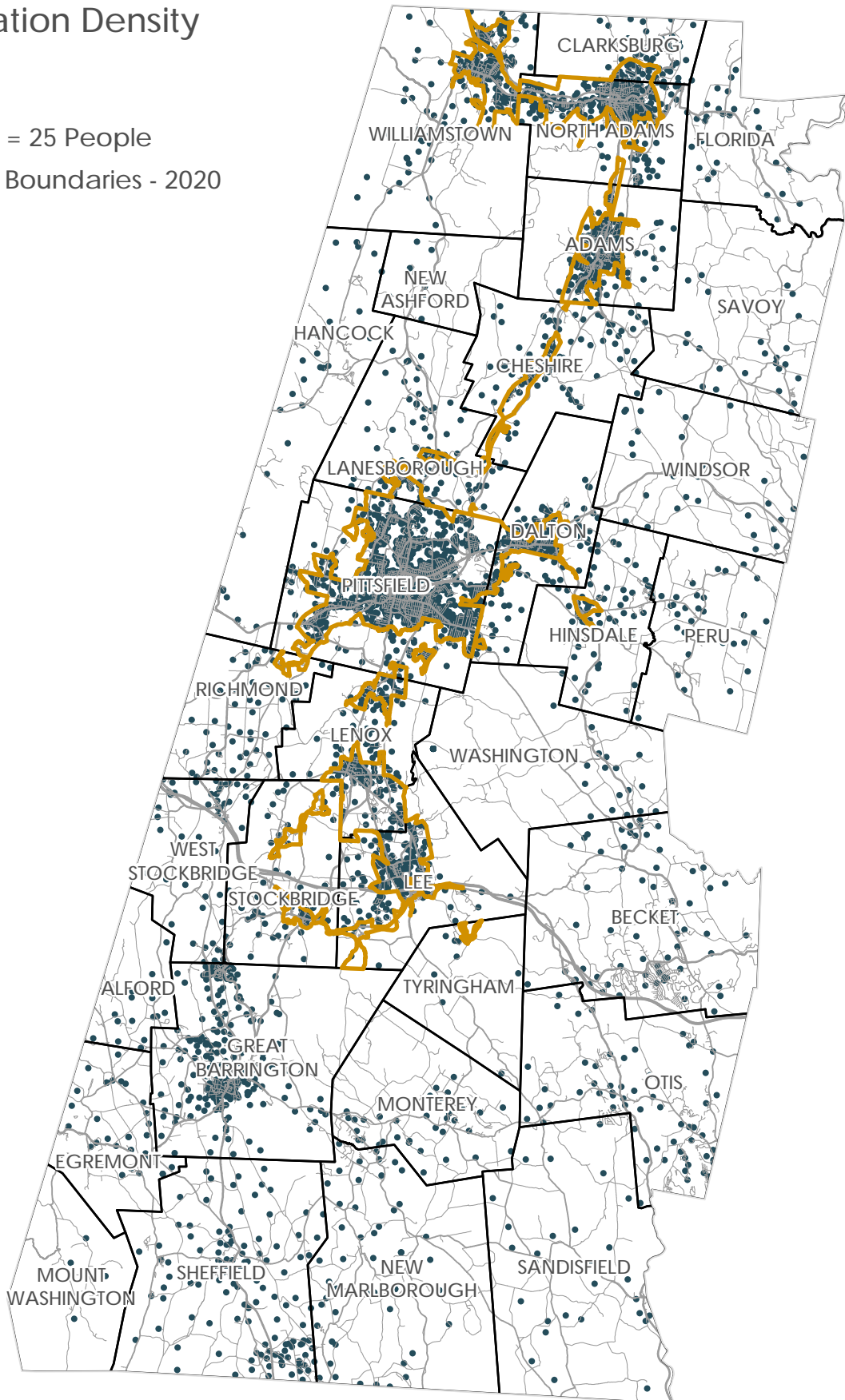
If more commercial land development is to take place on these routes, care should be taken to plan more safety interventions, such as increased access control. This is discussed further in **Objective 4a - Adopt the Safe Systems Approach**.

Maintaining the historic and rural land use of the Berkshires is a priority for many residents. Achieving this will require consideration of how to optimize our transportation system to support our historic town centers and how best to regulate land use and subdivisions to reduce vehicle miles traveled and preserve natural spaces.

# Population Density

• 1 Dot = 25 People

▭ Urban Boundaries - 2020



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P24



TAHOULEN 88

BERKSHIRE  
COMMUNITY  
COLLEGE  
3.2  
→

GRAB  
AND  
GO  
OPEN

WALKER'S  
RESTAURANT & BAR

LEFT LANE  
NEXT  
PARK ONLY

BIKE  
LANE  
ENDS

WALKER'S  
RESTAURANT & BAR

Marketplace



# 4

## Regional Goals & Recommendations

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# Goal 1



## Maintain a State of Good Repair

The maintenance of our existing transportation infrastructure and services is a core function of our local government. Properly maintained infrastructure leads to a reliable transportation system where all people can get around with safety, predictability and dignity. It is also important to remember that a state of good repair is not synonymous with perfection. Any system with limited resources will have to prioritize needs and desires, and some projects may be deferred while others are carried out. The long-range planning process works to identify the objective factors for programming and prioritizing transportation maintenance funds.

### Objectives:

- a. Maintain Pavement Conditions
  - b. Maintain Bridge Conditions
  - c. Maintain Culvert and Stream Crossing Conditions
-

# 1a. Maintain Pavement Conditions

## BACKGROUND

There are over 1,900 miles of accepted roads and streets throughout Berkshire County. Together, they create a backbone and circulatory system for travel around, into, and out of, the region. Approximately 1,589 miles are under local jurisdiction, with the remaining being under state ownership. Of the total 1,900 miles, approximately 1450 are asphalt paved. The remainder are gravel-surface.

As motor vehicles became the predominant mode for travel and shipping, roads throughout the United States were improved with asphalt pavement. This mix of bitumen and aggregate forms a resilient wearing surface for wheels to roll on, a significant upgrade from gravel and natural-surface roads. The routine and capital maintenance needs for these improved surfaces is a full-time job for town highway departments.

In the generations since the first improved roads were constructed in Berkshire County, the costs of maintaining a state of good repair for the region's road network has grown. Costs of asphalt, aggregate, equipment and labor steadily increase, while town populations and tax bases have largely been flat or declining. Further support will be needed to maintain the quality of roads in Berkshire County.

## EXISTING CONDITIONS

### *How pavement conditions are evaluated*

Taken as a whole, a town's road network is likely its single most valuable asset, in terms of cost of installation and maintenance. Different parts of the network are evaluated and maintained in different ways, depending on the ownership of the road, its function, and its method of construction. Regardless of these factors, an objective way of tracking pavement condition and creating maintenance plans is the best way to preserve the useful lives of these assets.

Roadways can be evaluated by electronic instruments or visual inspection. Specialized vehicles equipped with accelerometers and ground-penetrating radar (GPR) can drive over road surfaces to measure the roughness of the ride and the

conditions of the ground below the surface to help planners determine what a road's maintenance needs are. Based on these factors, planners can then give a road a score on the International Roughness Index (IRI) or the Present Serviceability Index (PSR). Comparing IRI or PSR scores across a network helps maintenance crews to plan out maintenance activities for a construction season. Visual inspections performed while driving can also help planners determine what a road's maintenance needs are. The Pavement Asphalt Surface Evaluation and Rating (PASER) system helps planners to evaluate roads based on visual cracking, rutting, deformation, potholes, and other factors. These visual cues indicate the degree of aging for a certain road, from which a maintenance activity can be recommended.

Most instrument-based pavement evaluations require a high upfront cost. These inspections are most often performed by MassDOT on state-owned roadways, or may be contracted out to a third party to perform inspections of town-owned roads. Visual inspections are less costly and can be performed by local or regional crews with proper training. The Berkshire Regional Planning Commission is able to perform visual PASER inspections for any town in the county, and provide the results to town Highway departments for maintenance activity and capital investment planning. Contact the Transportation Planning Program at BRPC to request a proposal for evaluation of town-owned pavement and gravel roads.

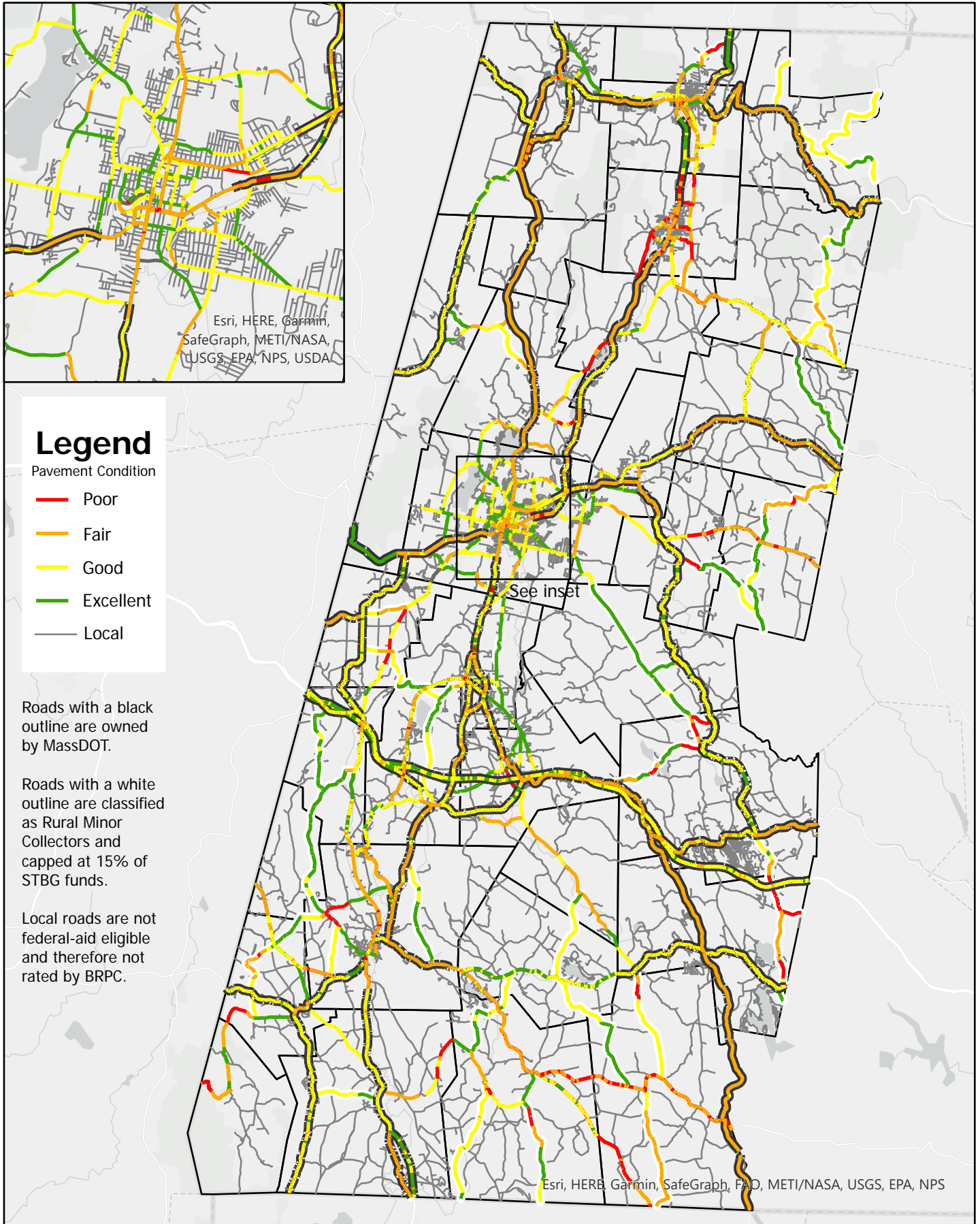
### *Performance Monitoring*

The federal FAST Act, and the subsequent Bipartisan Infrastructure Law (BIL) call for performance-based planning of transportation projects. In other words, investments should be decided by measurable data from our roadway system. This performance is tracked in Performance Measure 2 (PM2): Bridge and Pavement Performance Measures. The performance measures that Berkshire County has adopted are as follows:

Performance Measure	2-yr target	4-yr target
Bridges in good condition	16%	16%
Bridges in poor condition	12%	12%
Interstate in good cond.	70%	70%
Interstate in poor cond.	2%	2%
Non-Interstate in good cond.	30%	30%
Non-Interstate in poor cond.	5%	5%



Map 1a-1: Berkshire County Federal-Aid Pavement Conditions, 2023



**Figure 1a-1: Chapter 90 budgets for Berkshire towns: 2012 to 2023**

Municipality	2012 Ch. 90 \$	2023 Ch. 90 \$
Adams	294,296	278,826
Alford	73,259	70,902
Becket	245,467	234,215
Cheshire	205,906	197,598
Clarksburg	75,720	73,711
Dalton	227,587	215,411
Egremont	155,054	150,125
Florida	164,804	159,840
Gt. Barrington	423,476	402,061
Hancock	69,975	66,838
Hinsdale	158,467	153,050
Lanesborough	230,160	213,403
Lee	299,746	278,340
Lenox	291,694	273,424
Monterey	199,722	195,902
Mt. Washington	71,657	68,908
New Ashford	44,120	42,519
New Marlborough	349,782	338,424
North Adams	454,636	417,377
Otis	181,454	177,398
Peru	147,465	142,768
Pittsfield	1,399,765	1,328,745
Richmond	170,726	162,728
Sandisfield	334,548	322,909
Savoy	201,598	195,510
Sheffield	370,201	354,014
Stockbridge	203,584	192,390
Tyringham	104,517	102,453
Washington	170,913	167,904
W. Stockbridge	154,023	150,753
Williamstown	308,387	291,902
Windsor	256,275	248,197
<b>Total</b>	<b>8,038,984</b>	<b>7,668,545</b>

**State of Repair for Berkshire County Roads**

Federal-aid roads are eligible for maintenance under the Transportation Improvement Program (TIP). Recognizing which roads currently have the greatest needs help planners to form annual maintenance requests under the TIP. **Federal-aid roads** include Interstate highways and roads with the functional classifications of Arterial, Urban Collector, and Rural Major Collector. Rural Minor Collector Roads and Local streets are not eligible for Federal-aid funding and inclusion on TIP projects. These roads are maintained through a town's annual budget or through Chapter 90 reimbursement (more information on Chapter 90 is in the next section).

BRPC conducted a PASER visual inspection of the federal-aid eligible roadways owned by municipalities in Berkshire County in the summer of 2022. Federal-aid roadways owned by MassDOT are inspected and reported on by that agency. The data gathered from the BRPC inspection and the data reported by MassDOT are combined and reported in **Map 1a-1**. Ratings are consolidated into four general categories of conditions: Excellent, Good, Fair, and Poor and colored on the map.

**Level of Investment for Maintaining a State of Good Repair**

The goal for any maintenance program is to keep its assets in a state of good repair. A "good" pavement condition, which translates to a PASER rating of at least 8 out of 10, is a reasonable benchmark to estimate investment needs with today's current state of repair. A road in "good" condition can have its service life extended with routine maintenance such as crack sealing.

The more a road's condition is deteriorated, the higher its maintenance costs will be to bring it to a state of good condition. Roads that are considered in "fair" condition will usually require more costly rehabilitation activities, such as mill-and-fill resurfacing, hot-in-place recycling or cold-in-place recycling. "Poor" condition roads often have a degraded base below the surface, which can cause rutting, sinkholes, washboarding, and eventually total failure of the road, making it impassible to average vehicles. These roads usually require full-depth reconstruction.

Based on the pavement conditions reported by MassDOT on state highways and as evaluated on local roads, a rough cost estimate for bringing

Berkshire County up to a good state of repair has been developed. This estimate assumes all roads would be repaired in their current conditions, without any further deterioration taking place. The goal is to provide an understanding of the level of investment needed in our road network to maintain adequate conditions. See **Figure 1a-1** for a breakdown of road mileage by condition and level of investment estimated. Unit cost estimates come from average prices per square yard (SY) of various pavement treatments from MassDOT's State Aid Reimbursable Price Estimation Tool (SARPET). The averages take into account different maintenance activities that could be performed for pavements falling with a certain PASER rating range (i.e., 8-10 or 3-5).

## PAVEMENT MAINTENANCE PROGRAMS FOR BERKSHIRE COUNTY

To maintain and improve the state of repair for roadways in Berkshire County, there are several planning and funding programs available. Roads may or many not be eligible for these programs based on their ownership, condition, or functional classification.

### **Municipal Pavement Program**

This road maintenance program was created in 2021 by the transportation bond bill signed into law by former governor Baker. According to MassDOT, the goal of the MPP is:

*"to improve the condition of municipally owned state numbered routes, with an emphasis on National Highway System (NHS) roadways, and to find opportunities to improve safety and accessibility for all modes."*

The MPP is not a competitive grant program but rather a targeted investment in municipally-owned state-numbered routes. Examples of these roads include Route 41 in West Stockbridge, Route 23 in Monterey, Route 143 in Hinsdale, and Route 116 in Savoy among others. Many towns have numbered routes with some segments owned by the municipality, and other segments owned by MassDOT.

MassDOT selects road segments for improvements based on the current road condition, the proportion of poor-condition numbered routes a municipality, and geographic equity. Emphasis is placed on road segments that are part of National Highway System (NHS). Based on these criteria,

the following projects were funded by the MPP in Berkshire County in FY 2022:

- ◆ Great Barrington: Route 71 from the Egremont town line to the intersection of Route 71, Route 23, and Route 41
- ◆ New Marlborough: Route 57 from the intersection of Stone Manor Drive to the Monterey town line
- ◆ Sandisfield: Route 57 from the intersection of New Hartford Road to east of Lower West Street at the bridge over Buck River; and Route 183 from the Connecticut state line to just south of Norfolk Road

For FY 2023, the following Berkshire County towns have been programmed into the MPP:

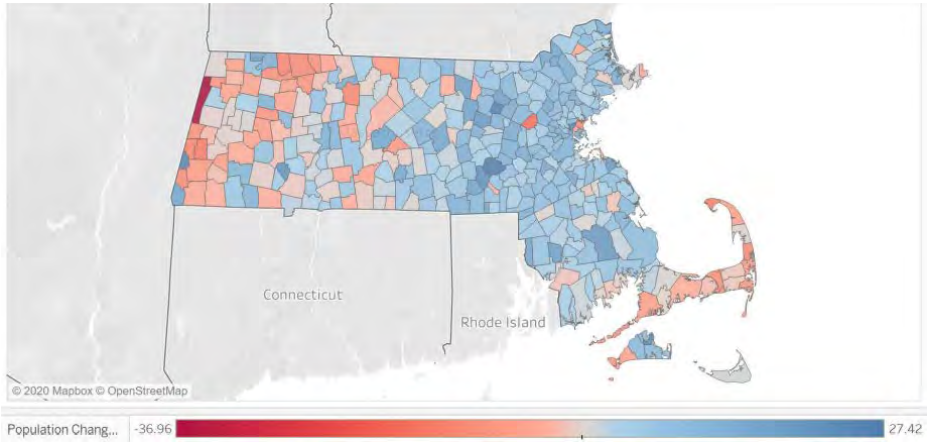
- ◆ Adams: Route 8, limits TBD
- ◆ Alford: Route 71 from mile marker 0 to 1.5
- ◆ Great Barrington: Route 23, limits TBD
- ◆ Hinsdale: Route 143 from mile marker 0.7 to 2.5
- ◆ Peru: Route 143 from mile marker 2.5 to 6.98

### **Chapter 90 Program**

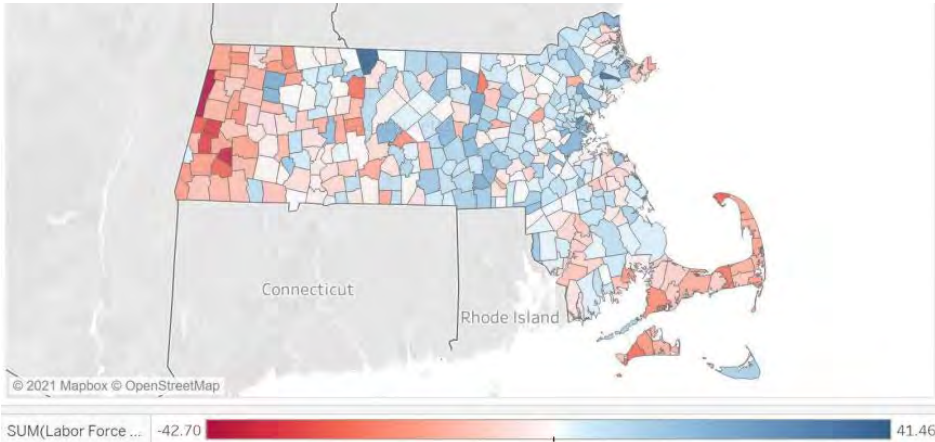
Direct state aid to municipalities for the purposes of road construction and maintenance is carried out through the "Chapter 90" program. This name comes from the authorization language for the program, spelled out in Chapter 90, Section 34 of the Massachusetts General Laws. This funding is reimbursement-based and only authorized for projects taking place on locally-owned roadways. Work performed on roads owned by MassDOT, other jurisdictions or privately-owned ways is not eligible for Chapter 90 reimbursement. Planning, design, construction and equipment and supplies purchases are eligible for reimbursement under the program. Funding is authorized annually as a lump sum by the state legislature and apportioned to each municipality in the Commonwealth by a funding formula, which takes into account population, locally-owned road mileage, and employment figures. The current authorized sum of \$200,000,000 has been in place since 2015. See **Figure 1a-1** to the left for the funding allocations to Berkshire municipalities.

Municipalities with decreasing populations are put at a disadvantage with the current funding formula. According to an analysis by the office of the State Auditor, only 8 of the 32 Berkshire municipalities

**Figure 1a-2: Population Change (%), FY11 to FY22**



**Figure 1a-3: Labor Force Rate of Change, 2010 to 2020**



experienced population growth between 2011 and 2021 (see **Figure 1a-2**). The City of Pittsfield's Chapter 90 allotment has decreased over the past 10 years<sup>1</sup> from a high of \$1,399,765 in 2012 to \$1,328,745 in 2023. Meanwhile, the city has not erased any roads from its map. Costs of materials, equipment, and labor will fluctuate year over year, and have seen a trend of significant increase over the last several years. The end result is that public works dollars are needing to be stretched further and maintenance will be deferred. Over the past decade, the region has seen a collective loss of over \$370,000 of road maintenance dollars. This figure is before the further weakening of purchasing power due to inflation and price increases.

A portion of the Chapter 90 apportionment formula also takes into account workforce numbers.

<sup>1</sup> Not including a one-time infusion by the legislature into the Chapter 90 fund in 2015.

According to the analysis conducted by the office of the State Auditor, 31 of the 32 municipalities in Berkshire County saw a reduction in the labor force between 2010 and 2020. This further erodes at Chapter 90 allotments without a subsequent reduction in maintenance responsibilities for locally-owned roads. **See Figure 1a-3.**

As two of the three metrics for calculating Chapter 90 decline for the Berkshire region, apportionments will also continue decline, and the region will fall further behind if a new balance is not struck.

The Chapter 90 program has proven to be a valuable benefit to the cities and towns of the Commonwealth. Every effort should be made to have the funds be available and expended in an expeditious manner to provide for the construction and rehabilitation of local roads.

## RECOMMENDED PROJECTS

- ◆ Pittsfield: Route 7 (First Street) between East Street and Tyler Street: Approx. 3,800 LF of road reconstruction, bike/ped and ADA improvements, signal replacements, and other safety improvements. Estimated cost: \$6,000,000
- ◆ Adams: Bucklin Road from Cheshire town line to Walling Road; East Road from Walling Road to Upper E Hoosac Street: Approx 2.1 miles of road rehabilitation. Estimated cost: \$1,100,000
- ◆ Adams: West Road from Reservoir Road to Gould Road: Approx. 2.1 miles of road rehabilitation. Estimated cost: \$1,100,000
- ◆ Lanesborough: Summer Street from Old Cheshire Road to Old State Road: Approx 6,500 LF of road reconstruction. Estimated cost: \$563,000
- ◆ Cheshire: Lanesboro Road from Lanesborough town line to Route 8: Approx 1.85 miles of road reconstruction. Estimated cost: \$849,000
- ◆ Sheffield: County Road from Hickey Hill Road to New Marlborough town line: Approx. 1.5 miles of road reconstruction. Estimated cost: \$893,120

## 1b. Maintain Bridge Conditions

### BACKGROUND

The landscape of the Berkshires is dotted with bridges that cross rivers, railroads, highways, and steep terrain. While most of us see bridges classified by type, such as arches, trusses, or suspension bridges, for instance, they also carry invisible classifications based on their span length, ownership, and type of road that they carry. While these classifications are relatively unimportant to everyday travelers, they help planners to understand what sources of funds are available to maintain or replace a bridge.

#### **Span Length Classifications**

Bridges that are 20 feet or longer in span are considered part of the National Bridge Inventory (NBI). MassDOT classifies bridges between 10 and 20 feet long as short-span bridges (BRI). Finally, crossings between 4 and 10 feet long are considered Culverts (CUL), regardless if the structure is a true culvert or a bridge. A culvert is a singular hollow structure that is typically made from concrete. They can be more difficult to identify as they may not have railings or an ascent leading up to them, as a typical bridge might.

#### **Functional Classifications**

NBI structures are eligible for federal-aid funding. If the bridge carries a road that is also eligible for federal-aid funding (i.e., Interstates, arterials, and urban collector roads), then the bridge is classified as On-System. If the bridge carries a road that is not eligible for federal-aid funding (such as local streets and rural collector roads), then it is classified as an Off-System bridge.

A bridge may be listed as "functionally obsolete." This designation is applied when a bridge's road deck does not meet modern design standards for the *functional* classification of the road (arterial, collector, or local). Often, this occurs when a bridge constructed many years ago is narrower than what would be standard today in terms of lane widths, shoulder clearance, or bicycle and pedestrian accommodation.

#### **Condition Classifications**

A bridge's state of repair is classified in several ways. Bridges that are owned by MassDOT or a

municipality are inspected every two years as a part of compliance with the National Bridge Inspection Standards (NBIS). A bridge's condition will be generally reported as good, fair, or poor. Specific parts of a bridge, like the superstructure, substructure, or road deck may have different ratings. A bridge may also be classified as "structurally deficient." This indicates that the structure of the bridge is in such a condition that new weight restrictions may be imposed, or the bridge may be partially or completely closed.

Berkshire residents are familiar with bridge closures, which have always happened from time to time. Recent higher-profile bridge closures and restrictions include the Holmes Road bridge in Pittsfield and the Division Street bridge in Great Barrington. Temporary or permanent replacements to these bridges are currently in development at the time of writing.

Partial or full bridge closures have an impact that is close to home for many Berkshire residents. Detours are disruptive and cost residents more travel time. Emergency response times can also be impacted by poor bridge conditions, whether the corridor is restricted to one-lane travel or closed entirely. In a rural setting like Berkshire County, a bridge may be the only access point for certain neighborhoods. While more urbanized areas may have a redundant street grid to allow for other travel options, detours in rural areas due to bridge closures can result in much greater travel times. Well-maintained bridges is a high priority for many residents.

Berkshire County has over 700 bridges listed on the statewide inventory. These include structures owned locally and owned by MassDOT. The majority of bridges are qualified for the National Bridge Inventory (NBI), while about one-quarter of bridges have spans between 10 and 20 feet, which qualify as a short-span (BRI-classified) bridge. Fifty-five bridges are currently listed as structurally deficient in Berkshire County, which can result in weight limit postings, partial, or full closures. **Figure 1a-2** shows a list of all bridges that have been inventoried in Berkshire County, broken out by municipality.

### BRIDGE MAINTENANCE RESOURCES

Rehabilitating or replacing bridges are costly infrastructure investments for municipalities to

undertake. Resources are available for assistance in performing maintenance, rehabilitation, or replacement for bridges depending on their size and classification. Bridge funding availability is determined at the statewide level, as part of the statewide bridge inventory. See **Figure 1a-3** for the projected yearly funding available for bridge maintenance statewide. It is anticipated that Berkshire County will receive a portion of funds for bridges in this region, but there is no set formula to determine funding amounts region by region.

### **Municipal Small Bridge Program**

This funding source is managed by MassDOT, and was last authorized by the state 2021 Transportation Bond Bill with an apportionment of \$70 million statewide. It is intended to support maintenance, rehabilitation, and replacement of bridges that are defined as BRI-type spans (between 10 and 20 feet in span). There are several methods of measurement for determining the span of a bridge for MSBP purposes. These methods are provided by the MassDOT Highway Division on their official Municipal Small Bridge Program website.

### **Next Generation Bridge Program**

This statewide bond-funded maintenance program allocates \$1.25 billion over five years between 2021 and 2025 to address major bridge projects across the Commonwealth. Future projects in Berkshire County may qualify under this program, but at the time of writing there are no known projects in development under this program in the region.

**Figure 1a-2: Bridge Ownership, Category, and Deficiencies in Berkshire County**

Town	Total Bridges on Inventory	Owner			Category			Deficient
		DOT	Mun.	Oth.	NBI	BRI	Oth.	
Adams	40	7	31	2	23	8	9	1
Alford	8	1	7	0	4	0	4	2
Becket	52	32	20	0	26	17	9	3
Cheshire	12	6	5	1	5	5	2	0
Clarksburg	8	2	6	0	6	0	2	1
Dalton	8	0	8	0	5	2	1	0
Egremont	13	3	10	0	9	4	0	0
Florida	6	2	4	0	2	1	3	0
Great Barrington	22	11	11	0	17	3	2	2
Hancock	12	6	6	0	5	4	3	0
Hinsdale	21	7	14	0	12	3	6	1
Lanesborough	19	9	10	0	13	4	2	3
Lee	55	31	24	0	42	7	6	4
Lenox	15	3	12	0	6	5	4	0
Monterey	12	0	12	0	7	5	0	2
Mount Washington	2	0	2	0	1	1	0	0
New Ashford	9	6	3	0	4	3	2	0
New Marlborough	27	0	27	0	20	4	3	2
North Adams	30	15	15	0	22	3	5	2
Otis	26	18	8	0	10	10	6	4
Peru	4	0	4	0	0	2	2	0
Pittsfield	65	21	44	0	48	13	4	9
Richmond	12	6	6	0	3	5	4	1
Sandisfield	35	8	27	0	21	7	7	1
Savoy	19	0	17	0	14	1	4	1
Sheffield	37	10	27	0	20	12	5	5
Stockbridge	24	13	11	0	16	8	0	2
Tyringham	9	0	9	0	6	2	1	1
Washington	15	2	13	0	6	6	3	5
West Stockbridge	28	20	8	0	19	8	1	1
Williamstown	33	16	17	0	23	7	3	1
Windsor	27	8	19	0	14	11	2	1
<b>TOTALS</b>	<b>705</b>	<b>263</b>	<b>437</b>	<b>3</b>	<b>429</b>	<b>171</b>	<b>105</b>	<b>55</b>

### **BIL Bridge Formula Program**

The 2021 Infrastructure Investment and Jobs Act (IIJA), otherwise known as the Bipartisan Infrastructure Law or BIL, appropriated \$5.5 billion for "bridge replacement, rehabilitation, preservation, protection, and construction." This apportionment is known as the Bridge Formula Program (BFP).

Funds in the BFP are to be obligated by states before the program lapses on September 30, 2025. The funds are dispersed by the FHWA, and are targeted toward federal-aid eligible roads with bridges that are in poor condition needing

replacement, or bridges in fair condition needing rehabilitation. 15% of the total funds are to be set aside for use on Off-System bridges in the state. See **Figure 1a-4** below for a breakout of funding amounts for Massachusetts.

Bridges mainly go unnoticed in our daily travels until an issue is uncovered. Inspecting, maintaining and prioritizing the hundreds of bridges in Berkshire County is no simple task. Bridge replacements are often the most costly single project a town will undertake for many years, and to some it will seem that progress is slow. Towns can also work proactively to extend the life of their bridges before the need for closure. Inspecting for rust or cracking periodically, repainting, and keeping the substructure clean, especially from winter salt, can all help keep bridges in good repair for a longer time.

**UPWP ACTIVITIES:**

- ✦ Report yearly to MPO on changes in bridge condition
- ✦ Assist communities in obtaining up to date bridge data
- ✦ Coordinate with municipalities as needed in navigating bridge funding opportunities

**Figure 1a-3: Estimated Statewide Bridge Funding**

	<b>Statewide Bridge Program</b> (funding available to ALL MPOs)	
<b>2024</b>	\$	183,898,219
<b>2025</b>	\$	176,617,938
<b>2026</b>	\$	183,898,219
<b>2027</b>	\$	255,592,933
<b>2028</b>	\$	282,726,401
<b>First 5 years</b>	<b>\$</b>	<b>1,082,733,710</b>
<b>2029</b>	\$	288,380,929
<b>2030</b>	\$	294,148,548
<b>2031</b>	\$	300,031,519
<b>2032</b>	\$	306,032,149
<b>2033</b>	\$	312,152,792
<b>Second 5 years</b>	<b>\$</b>	<b>1,500,745,936</b>
<b>2034</b>	\$	318,395,848
<b>2035</b>	\$	324,763,765
<b>2036</b>	\$	331,259,040
<b>2037</b>	\$	337,884,221
<b>2038</b>	\$	344,641,905
<b>Third 5 years</b>	<b>\$</b>	<b>1,656,944,778</b>
<b>2039</b>	\$	351,534,743
<b>2040</b>	\$	358,565,438
<b>2041</b>	\$	365,736,747
<b>2042</b>	\$	373,051,482
<b>2043</b>	\$	380,512,512
<b>Fourth 5 years</b>	<b>\$</b>	<b>1,829,400,922</b>
<b>2044</b>	\$	388,122,762
<b>Fifth 5 years</b>	<b>\$</b>	<b>388,122,762</b>
<b>TOTALS</b>	<b>\$</b>	<b>6,457,948,108</b>

**Figure 1a-4: Estimated BFP funding for MA**

<b>State</b>	<b>Bridge Formula Program</b>		
	<b>Bridge (Main)</b>	<b>Off-system Bridges</b>	<b>Total</b>
Mass.	\$206,998,770	\$36,529,195	\$243,527,965

## 1c. Maintain Culvert and Stream Crossing Conditions

### BACKGROUND

*This Objective will address maintenance and inventory of culverts in Berkshire County. Adapting culverts to improve wildlife linkages and to address extreme weather events will be noted in **Objective 6d - Mitigate Impacts on Natural Habitats**.*

Culverts are minor stream crossings that are between four and ten feet wide. The rule of thumb that differentiates culverts from bridges is that culverts are a single pre-fabricated structure, sometimes made from concrete off-site, or consisting of a large pipe made of plastic or corrugated metal (see **Figure 1c-1**). Culverts allow for roads to traverse minor streams without significantly interrupting their flow.

Identifying and creating an inventory for culverts in the region is a significant undertaking. While some culverts may be easy to spot from a road, some may be as simple as a plastic pipe buried below a mound. Blocked culverts can lead to upstream flooding, and rusted out culverts can lead to collapses or washouts in heavy rains, which are more likely to occur as the climate changes over the twenty-year planning horizon. With no formal management system, many communities lack a full inventory of their culvert locations, and often they only become known once a flood or washout occurs. Culverts that are clear of obstructions, in good physical condition, and right-sized for the volumes of water passing through are vital for maintaining uninterrupted travel around the region.

BRPC has collected culvert measurement and condition data as part of routine planning work. MassDOT also maintains an inventory of culverts that support state-owned roadways. Finally, the North Atlantic Aquatic Connectivity Collaborative (NAACC) works to collect data related to the wildlife connectivity elements of the region's culverts. According to

the NAACC data gathered to date, there are over 2,200 known stream crossings in Berkshire County. An overview of the data gathered is shown in **Map 1c-2**. Half remain to be assessed, and the work will be ongoing.

As culverts are assessed, routine repair and replacement should be prioritized by local highway departments. Dilapidated culverts present opportunities to fortify the stream crossings for future weather events and enhanced aquatic and wildlife connectivity.

### UPWP ACTIVITIES:

- ◆ Continue gathering data for culverts that have yet to be assessed
- ◆ Coordinate with local highway departments to prioritize culvert repairs or replacements, and find ways to streamline the process in concert with other road maintenance work
- ◆ Encourage more towns to assess their stream crossings through the Municipal Vulnerability Preparedness (MVP) program
- ◆ Research and share the latest culvert design standards that support adequate water flow and wildlife connectivity

**Figure 1c-1: Culvert carrying a stream under a road in Cheshire**



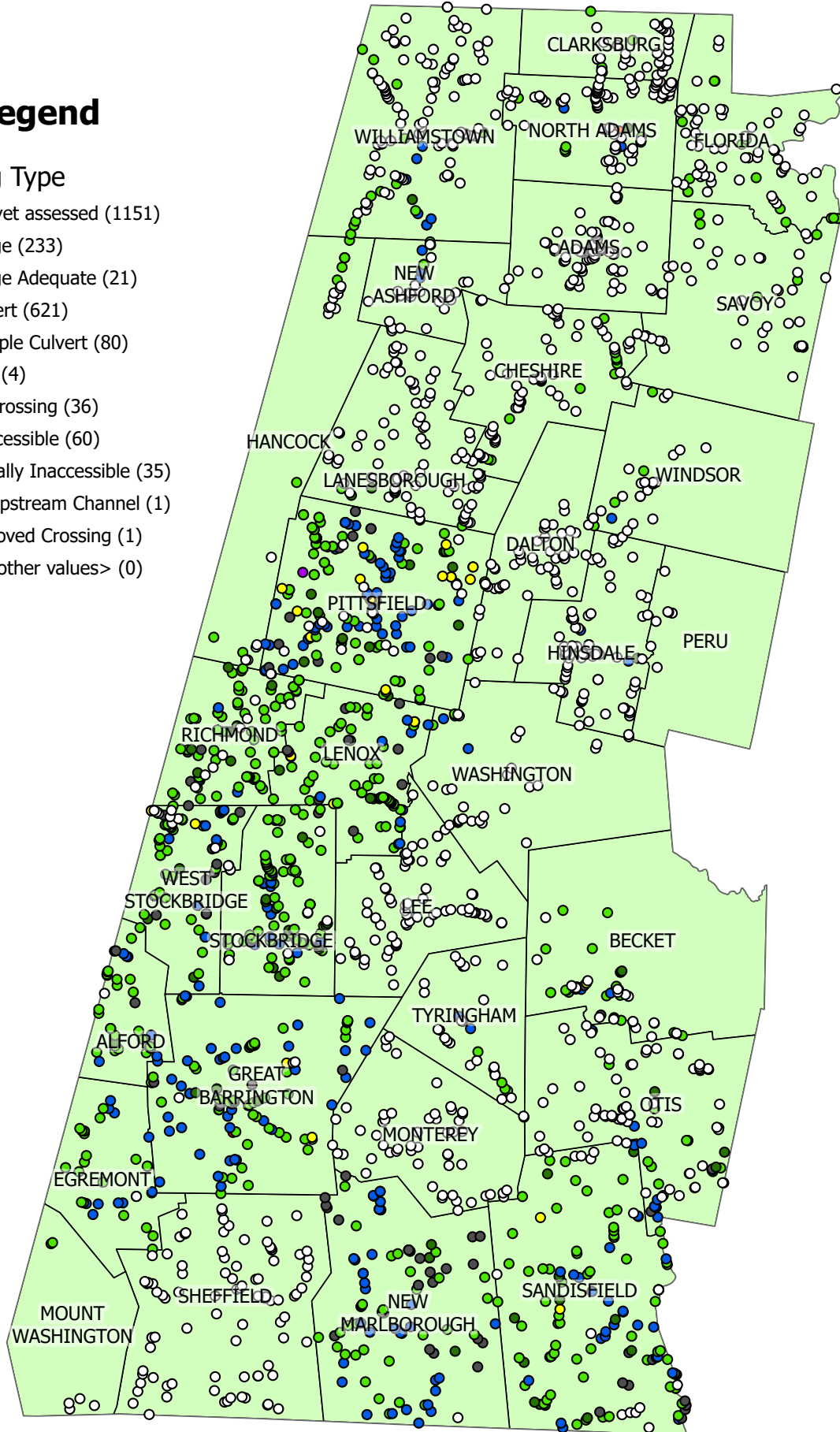


Map 1c-2: Known stream crossings in Berkshire County (via NAACC)

## Legend

### Crossing Type

- Not yet assessed (1151)
- Bridge (233)
- Bridge Adequate (21)
- Culvert (621)
- Multiple Culvert (80)
- Ford (4)
- No Crossing (36)
- Inaccessible (60)
- Partially Inaccessible (35)
- No Upstream Channel (1)
- Removed Crossing (1)
- <all other values> (0)





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# Goal 2



## Foster Economic Development

Transportation is a key influencer of economic opportunity for residential, commercial, and industrial sectors. The hospitality and tourism industry relies on visitors taking trips to Berkshire County and patronizing attractions. Commercial and industrial operations rely on freight logistics to move both raw materials and finished products. Continued growth of online marketplaces has led to increased demand for at-home delivery. And of course, workers need reliable transportation to get to work. A robust transportation network helps to support the economic development indicators of job creation and tourism revenues.

### Objectives:

- a. Grow Economic Opportunity through Transportation
  - b. Develop Scenic Byways
  - c. Support Freight and Airport Operation
-

## 2a. Grow Economic Opportunity through Transportation

### BACKGROUND

The regional economic development priorities for Berkshire County are generally laid out in the Comprehensive Economic Development Strategy, or CEDS. This document is a blueprint to communicate the region's economic vision and needs to federal decision makers, specifically the Economic Development Administration (EDA).

The CEDS was developed through the guidance of a CEDS committee and authored by the Berkshire Regional Planning Commission. One of the most important tasks within the CEDS is to develop an analysis of the region's economic strengths, weaknesses, opportunities and threats (SWOT). The SWOT analysis succinctly lays out the advantages and disadvantages the region faces in growing our economic output, job base, and prosperity.

Transportation-related factors play into the region's economic opportunities and setbacks. The CEDS committee see the following factors as aligning with transportation investments or needs in the region:

**Strengths:** Outdoor Recreation, Core Employers  
**Weaknesses:** Public Transport, Regional Disconnect  
**Opportunities:** Outdoor Recreation, Remote Work  
**Threats:** High Energy Prices, Loss of Farmland

To address the trends revealed from the SWOT analysis, the CEDS recommends several goals, strategies, and objectives, not unlike this RTP. This section will highlight goals put forward by the CEDS that can be addressed, at least in part, by transportation planning, policy, and projects.

#### Goal: *Healthy People*

**Objective:** Enhance accessibility and safety of downtown commercial districts.

#### Goal: *Resilient Communities*

**Objectives:** Advocate for increased Chapter 90<sup>1</sup> funding; Invest in vibrant, safe, and walkable downtown commercial districts with a focus on vacant storefronts and facades.

<sup>1</sup> Chapter 90 is the direct state-aid program in Massachusetts that provides towns and cities with maintenance funds for their local roads. See **Goal 1a**.

#### Goal: *Robust Infrastructure*

**Objectives:** Advocate for increased rail transportation to and from the region; Advocate for increased funding to support more robust BRTA services, including microtransit implementation.

The CEDS lists priority economic development projects that are determined to be regionally significant over the next five years. Two that address transportation include:

- ◆ Columbus Avenue/Summer Street Parking Garage (Pittsfield)
- ◆ Harriman & West Airport (North Adams)

### TRANSPORTATION PROJECT ALIGNMENT WITH SWOT FACTORS

Supporting the transportation-related goals and objectives laid out by the CEDS can be accomplished by programming projects, studies, and staff time into future budgets. This section elaborates on how transportation resources can help to achieve the listed goals, and what projects and studies would be relevant for future budget inclusion.

#### Strengths: *Outdoor Recreation, Core Employers*

Our regional outdoor recreation assets are a major draw to encourage living in and visiting the Berkshires. Multi-modal connections to recreation sites that are in a state of good repair will bolster this strength. Examples of investments that can be made include the Berkshire Bike Path, Pavement Management studies and investments, bottleneck analyses with a focus on event spaces like the Greylock Glen and Tanglewood, and investments in mass transportation like circulators, shuttles, trolleys, buses, or rail.

Core employers in the region draw in new residents and keep families in the Berkshires. The CEDS acknowledges that there are few remaining opportunities to develop new large-scale industrial sites in Berkshire County, and existing sites must be preserved and enhanced. Getting employees to and from these workplaces, as well as getting raw and finished goods in and out are important considerations in preserving these sites. Strategies outlined in the 2023 Massachusetts Freight Plan (discussed in Chapter 2) will help to address these sites, and the Berkshires will work to align with these strategies as is practical.

### **Weaknesses: Public Transport, Regional Disconnect**

Enhancing our public transportation system is discussed in more detail in **Section 3a**. Public transportation in Berkshire County takes the forms of fixed-route buses, microtransit (currently in a pilot phase), coach buses, and passenger rail. Current funding levels are not able to support a transit system that is envisioned by many in the Berkshires. More frequent headways, expanded coverage, multi-modal options like regional and local rail and microtransit will require a prioritization of funds by our statewide partners and elected officials. In the short term, transit agencies can double down on what's working and look to leverage additional resources and funding where possible.

Regional disconnect is a familiar feeling due to the political and natural geography of the region. The tall and narrow Berkshire County is nearly 50 miles long north to south, but less than half that distance across, east to west. For example, the towns of Great Barrington and Williamstown are both considered important cultural and population centers in Berkshire County, but are situated an hour's drive apart from one another. The region is generally bounded geographically by hills and mountains that limit the number of connections to neighbors. Especially for northern and southern extremities of the county, travel to Boston and back is a full day's excursion. Wintry conditions can isolate neighborhoods in the hilltowns and make travel into and out of the region difficult. Projects like East-West Rail and Northern Tier Rail will help provide more multi-modal connections to the rest of the Commonwealth. The windows for higher-speed bypasses for driving through the region have opened and closed, and would likely be of a low benefit relative to the cost. Optimization of the region's most traveled routes will provide notable gains for increasing connections. Improvements to safety through proven countermeasures and improvements to travel times via intelligent transportation system (ITS) corridors will help to better connect the region.

### **Opportunities: Outdoor Recreation, Remote Work**

As discussed in the Strengths section, the region has the opportunity to leverage natural environments, scenic views, and the host of all-season recreational opportunities to encourage living, working, and doing business in the Berkshires. Working to keep the roads, bridges, and paths that connect people to these resources will help to strengthen these assets.

Remote work presents another opportunity to infill gaps and disconnections that have formed in the wake of deindustrialization. The transportation planning and engineering professions should study and consider the effects that a remote or hybrid work schedule has on travel demand, rush hour patterns and volumes, and land-use practices. Office buildings that have become vacant could be adapted to prime central housing that could support work-from-home patterns and encourage more families to consider living in the Berkshires. This would strengthen the cohesion and walkability of town and city cores, with a 24-hour presence of people in downtown neighborhoods.

### **Threats: High Energy Prices, Loss of Farmland**

The volatility of prices for energy that is derived from fossil fuels has become a fact of life. Reducing dependence on these resources, especially in the transportation sector will help make the local economy more resilient. This work will take on different forms. Conversion of vehicle fleets from internal combustion to electric and hydrogen is one component of this. Reducing the number of vehicle miles traveled and providing the options to replace driving trips with walking, cycling, and transit wherever possible are strategies that are just as important.

Farmland loss takes place due to many factors. One threat that should be mitigated is farmland converting to low-density sprawling residential development. These land-use decisions have an impact on the transportation system: inducing vehicle trips, disconnecting residents from transit lines, and requiring investments in infrastructure and upkeep. Zoning and subdivision bylaws should be examined by governments concerned about farmland loss, and they should develop strategies to keep land affordable and productive for agriculture.

### **RECOMMENDED PROGRAMS:**

- ◆ Bottleneck analysis and pavement management activities related to development of the Greylock Glen site
- ◆ Intelligent Transportation System (ITS) feasibility study along Route 7 in central Pittsfield
- ◆ Trip generation and demand study for large-scale regional attractions and events
- ◆ Continued transition toward vehicle electrification and reducing VMTs through demand management and land use controls

## 2b. Develop Scenic Byways

### BACKGROUND

The Massachusetts Scenic Byway program supports roads that have outstanding scenic, historic, cultural, natural, recreational and archaeological qualities. In Berkshire County, there are four segments of state Scenic Byways that have been recognized by the Federal Highway Administration (FHWA). The Scenic Byways of western Massachusetts make important contributions to the economic vitality of the region, by drawing travelers to the area for the natural and historic scenery, who will in turn patronize local businesses.

#### *Mohawk Trail Scenic Byway*

This byway is the only route to receive National Scenic Byway status from the FHWA. It begins in the east in the town of Phillipston and follows Route MA-2 west through Franklin County and northern Berkshire County. The Byway terminates in the west at the rotary in Williamstown. One of the route's most distinctive features is the hairpin turn in Clarksburg, which provides sweeping views of the Hoosac River valley and Taconic Range. Whitcomb Summit in Florida also provides expansive vistas north into Vermont and down into the Deerfield River valley. Recently, there has been interest in re-assessing the name of the Mohawk Trail, as research uncovers that the area is associated less with the Mohawk Indian tribe than previously understood.

#### *Jacob's Ladder Trail Scenic Byway*

The Jacob's Ladder Trail (JLT) traces its modern origins to the early days of motoring, as one of the first four-season routes to connect Berkshire County to the Pioneer Valley (so named to appeal to motoring "pioneers" who were encouraged to drive for day trips into the Connecticut River Valley). The 35-mile JLT originates in the east in the town of Russell and terminates in the west in the town of Lee at the Lenox line. It follows the route of US-20 and passes through Lee and Becket within Berkshire County. The byway has many notable and historic features. A stone cairn was erected at the summit of the Jacob's Ladder climb in 1910 to celebrate the opening of the roadway (see **Figure 2b-1**). It can still be found today near the Sherwood Forest neighborhood in Becket. The historic village centers of Chester, Russell and Huntington, and

the mill district of Woronoco provide a glimpse into the "hilltown" life of Western Massachusetts. Finally, the steep slopes of Tekoa Mountain in Russell provide an impressive backdrop to the descent into the Connecticut River Valley.

#### *Route 116 Scenic Byway*

The Route 116 Scenic Byway follows its namesake numbered state route, from downtown Adams in the west to the town of Deerfield in the east. In Berkshire County, it passes through the towns of Adams and Savoy. The route passes directly under the base of Sugarloaf Mountain, which rises hundreds of feet above the Connecticut River in Deerfield. As Route 116 follows the winding river valley through Conway and Ashfield, there are plenty of challenging curves to navigate. The village center of Savoy, through which Route 116 passes, is situated at a higher elevation than almost any town in Berkshire County, at around 1735 feet.

#### *Mount Greylock Scenic Byway*

The only Scenic Byway of the region to travel in a north-south direction, the Mount Greylock Scenic Byway connects visitors to the highest summit in Massachusetts. From the south in Lanesborough, the route follows Rockwell Road up the southern face of Mount Greylock, and descends to Williamstown on the north face via Notch Road. These roads are only open seasonally to motor vehicle traffic. Multiple trailheads for hiking and camping are accessible via the Byway, such as Wilbur's Clearing, Money Brook Falls, Jones' Nose, the Appalachian Trail, Sperry Road, Stony Ledge, and Rounds Rock. The Veterans War Memorial tower sits atop the 3,491-foot summit of Mount Greylock and can be seen from vantage points all around Berkshire County.

**Figure 2b-1: Stone cairn at the summit of Jacob's Ladder**



## BYWAY STEWARDSHIP AND DEVELOPMENT

The Jacob's Ladder Trail Scenic Byway corridor is managed by a non-profit corporation whose mission is to carry forward stewardship of the trail, preserve its rural and historic character, and to advocate for resources to advance these goals. The JLTSB was incorporated in the early 1990s in order to pursue designation of the corridor as a Scenic Byway. With the successful designation as a state Scenic Byway, the committee has worked to implement projects to preserve and enhance the character of the corridor. Projects have included two full Corridor Management Plans developed in cooperation between the Berkshire Regional Planning Commission and the Pioneer Valley Planning Commission (PVPC). Five turnouts have been constructed along the route with informational signage, seating, and parking areas. Interpretive and wayfinding signage has been erected, along with two gateway signs at the route origins in Lee and Russell.

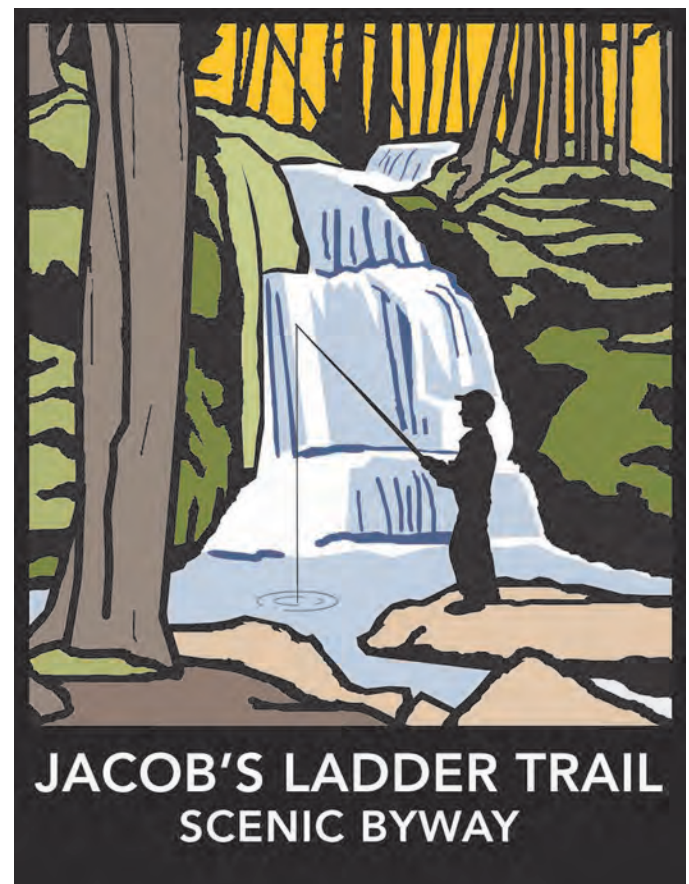
Marketing of the trail is an essential component of attracting interest and investment in the area. Along with the other Scenic Byways of western Massachusetts, Jacob's Ladder Trail is promoted with signature artwork (see **Figure 2b-2**) and a listing of points of interest on the [bywayswestmass.com](http://bywayswestmass.com) website. This marketing effort helped to bring a unique branding to the region's Scenic Byways, giving each an identity and draw for travelers.

Berkshire Regional Planning Commission staff have served on the leadership board of JLTSB, Inc., traditionally in the role of Clerk for the body. PVPC discontinued representation on the board in the 2010s. BRPC continues to program staff resources for the JLTSB, Inc. board, both as Clerk and for technical assistance where needed. The travel and gathering restrictions of the COVID-19 pandemic put much of the board's work on hiatus for 2020 and 2021. There is interest from board leadership in resuming initiatives to advance the goals of the Jacob's Ladder Trail, including preservation, marketing, and enhancing economic vitality of the corridor. Potential future initiatives include a refresh of the vision and mission of the corporation, refurbishment of signage and rest areas, and updating of the Corridor Management Plan.

## UPWP ACTIVITIES:

- ◆ Continue staff support for JLTSB, Inc. activities such as board meetings and communication
- ◆ Perform duties as Clerk of the board including meeting minutes, annual report filing, and outreach as necessary
- ◆ Provide technical support where needed for transportation-related initiatives along the corridor
- ◆ Explore a re-connection with PVPC for initiatives that take place in Hampden County
- ◆ Monitor for funding opportunities that are within the capacity of the Scenic Byway team
- ◆ Maintain relationships with MassDOT and the Scenic Byways liaison
- ◆ Maintain relationships with Berkshire towns along the Byway to solicit monetary and in-kind contributions for Byway work efforts

**Figure 2b-1: Jacob's Ladder Trail promotional artwork**



## 2c. Support Freight and Airport Operation

### BACKGROUND

Access to freight and rail hubs is important for the economic health of the region. The Massachusetts State Freight Plan provides a framework for investments to be made around the Commonwealth. As noted in Chapter 2, the Freight Plan for 2023 contains several goals and performance measures for a more efficient, robust and safe freight transportation system. The Berkshire region will work to support those goals by all practical means. Many of the actions recommended under the plan fall within other regional goals such as safety and maintaining a state of good repair. This section will explore some specific freight and air operations for Berkshire County and make recommendations for future projects to enhance these systems.

### FREIGHT AND FREIGHT RAIL PLANNING

#### *Freight and Reliability Performance Monitoring*

The federal FAST Act, and the subsequent Bipartisan Infrastructure Law (BIL) call for performance-based planning of transportation projects. In other words, investments should be decided by measurable data from our roadway system. This performance is tracked in Performance Measure 3 (PM3): Reliability, Congestion, and Emissions. Performance data is expressed in Level of Travel Time Reliability (LOTTR) and Truck Travel Time Reliability (TTTR). More information about these measures can be found in the **Appendix**. Performance targets through 2025 are as follows:

Performance Measure	2-yr target	4-yr target
Interstate LOTTR	74%	76%
Non-Interstate LOTTR	85%	87%
TTTR	1.80	1.75
Emissions Reductions: PM2.5	-	-
Emissions Reductions: NOx	0.000	0.000
Emissions Reductions: VOC	0.000	0.000
Emissions Reductions: PM10	-	-
Emissions Reductions: CO	0.354	0.354

#### *Hubbard Avenue Rail Overpass Bottleneck*

The Hubbard Avenue rail overpass has long been considered a bottleneck on the eastern side of the city of Pittsfield, both for passenger and freight traffic. Industrial traffic from the various business parks along Hubbard Ave mainly converge along this corridor. Destinations include the Federico and Downing Industrial Parks, County Concrete Corp., Covanta waste transfer station, Berkshire Crossing, BJ's Wholesale, Neenah Technical Materials, and Ashuelot Park. These industrial trips also mix with commuter and retail traffic to and from Dalton and the retail complexes of Coltsville.

The Hubbard Ave rail overpass, constructed in 1912, is functionally obsolete for the traffic of 2024 and the 20-year planning horizon, and is beyond its useful lifespan. The road narrows on the approaches to the bridge, with minimal shy-distance from the stone abutments of the rail overpass. Vehicles often pause on approach if traffic is coming from

**Figure 2c-1: Hubbard Avenue Rail overpass, seen approaching from the south.**



the opposite direction, causing unexpected stops along the corridor. The underpass is partially sunken as the rail bed is not elevated high enough to allow traffic to pass underneath at ground level. This low point is often flooded during rain events, which will likely increase in intensity over the next twenty years. The 13'-6" clearance is lower than what many modern freight vehicles need to safety clear an overpass. See **Figure 2c-1** for a recent view of the rail overpass.



This corridor presents a high priority for modernization. The rail overpass should be reconstructed so the travel lanes on Hubbard Ave remain at their standard width, which would allow traffic to flow freely. Reconstruction also presents an opportunity to build in pedestrian and bicycle facilities in a zone that currently presents a barrier to movement by foot and bicycle. A new overpass should be constructed at sufficient width to allow for a sidewalk or shared-use path, on the basis of Complete Streets principles (See page 118). Enhanced drainage and additional clearance for modern freight vehicles would be additional benefits stemming from reconstruction of the bridge.

The segment of rail that passes over Hubbard Ave is owned by CSX. It is a double-track layout and carries CSX freight cargo and twice-daily Amtrak passenger service. It is anticipated that partnerships between CSX, MassDOT, the City of Pittsfield and the town of Dalton will be required to help realize the project's completion.

## **AIRPORT PLANNING**

Berkshire County is home to three general aviation airports along with several unpaved landing strips. Commercial airports include Pittsfield Municipal Airport, Herriman-and-West Airport in North Adams, and Walter J. Kolazda Airport in Great Barrington. The municipalities that host these airports are continuing to leverage them as a resource for economic development and tourism potential.

### ***Herriman-and-West Airport (KAQW)***

This airport straddles the city line between North Adams and Williamstown, and is overseen by the North Adams Airport Commission. It features a single 4,300-foot tarmac runway and parking for several dozen small aircraft. As of 2021, the airport tarmac has a Pavement Condition Index (PCI) of 83 out of 100, which is a good condition. Recommended work from the MassDOT Aeronautics Division includes localized preventative maintenance through FY2025 with anticipated major rehabilitation of the runway between FY25 and 27.

The airport facilities are nearing completion of a renovation project which includes new pilot lounge facilities, facade improvements, and updated parking and circulation. The city is also seeking interested applicants to fill a restaurant space on the airport

property. North Adams' Vision 2030 Comprehensive Plan lists the airport as an essential component of its economic development strategy.

The airport itself is set back a quarter-mile south from Route 2 and reached by an access road. The intersection of this access road with Route 2 could be further enhanced to complement the other retail and hospitality businesses in the immediate area. A sidewalk along the south side of Route 2 currently connects to a grocery store and urgent care facility, along with residential side streets, the Greylock Works mill complex, and the Appalachian Trail. A sidewalk on the northern side of Route 2 terminates in grass approximately 250 west of the Access Road intersection. Wayfinding guide signs for travelers going to and from the airport could help complement these nearby facilities. A side-path along the airport access road would better integrate the sidewalk and bike lanes along Route 2 and better connect the TOURISTS hotel and trail system across the street. The city should consider extending the northern sidewalk to meet with the intersection and installing a pedestrian-actuated crosswalk at the signalized intersection of Route 2 and the airport access road, to make the area more pedestrian and bicycle friendly. This would also further enhance connections with the future North Adams Adventure Trail and these investments in economic development.

### ***Pittsfield Municipal Airport (KPSF)***

Pittsfield's airport is the largest general aviation facility in western Massachusetts between Springfield and Albany. It is situated about 4.5 miles southwest of downtown Pittsfield, and only accessible by local roads. The surrounding land is of low-density residential and warehousing use. Originally built in the 1940s, the airport supports two runways, and there are 9 hangars listed on the airport property, mainly for conventional aircraft storage.

The longer of the two runways (the primary runway) was extended by 1,000 feet in 2013. The primary runway is the only runway eligible for federal Airport Improvement Program (AIP) funding. According to the Federal Aviation Administration (FAA), the airport was entitled to \$150,000 in apportionment funding through the AIP in FY2022.

The overall PCI score for the Pittsfield airport's tarmac is 72 out of 100, which is a generally good condition. Taxiways are generally in poor condition

and the MassDOT Aeronautics Division recommends major rehabilitation of the taxiway tarmac through FY2027.

**Walter J. Koladza Airport (KGBR)**

Koladza Airport is based in Great Barrington, and is privately owned by Berkshire Aviation Holdings, Inc. Its facilities consist of one 2,500-foot asphalt runway, along with maintenance hangars and an administrative building. The airport has been in operation for nearly 90 years. The current PCI rating from 2021 lists the runway tarmac at 31 out of 100, which is a generally poor condition. The work plan recommended by inspectors with the MassDOT Aeronautics Division would reconstruct the main runway tarmac.

The airport contributes to region's economy by providing aircraft service, sales, flight instruction, along with recreational and charter flights.

At the time of writing, the town of Great Barrington is undergoing a special permit review for the airport's continued operation and construction of an additional hangar, with conditions currently being considered that would provide for enhanced soil and water quality monitoring, flight school operations hours and general airport operations hours, among other things.

The airport is based about two miles southwest of the Great Barrington downtown business district, and is accessible via Egremont Plain Road. There are no other commercial, retail, or hospitality-based businesses in the immediate area surrounding the airport, and the abutting land is zoned residential.

**RECOMMENDED PROJECTS:**

- ◆ Pittsfield: Reconstruction of Hubbard Avenue rail overpass. Estimated cost: \$15-20 million
- ◆ Pittsfield Municipal Airport: Major rehabilitation of taxiways. Estimated cost: \$11,000,000
- ◆ Walter J. Koladza Airport: Rehabilitation of runway. Estimated cost: \$3,232,000.
- ◆ North Adams: Herriman-and-West Airport gateway enhancements including sidepath, sidewalk extension, crosswalk signaling, and wayfinding signage

# Goal 3



## Expand Public Transportation Services & Options

Mass transit is an essential component of any regional transportation system. It is an efficient way of moving many people between points of interest. There are challenges that come with implementing transit well in a rural area. The funding mechanisms by which transit agencies are largely supported do not cover the full needs of the region. Agencies like the Berkshire Regional Transit Authority (BRTA), Amtrak, and regional service providers are leveraging innovations of the 21st century to help make transit more competitive despite these challenges, and they are helping to reduce the transportation sector's greenhouse gas emissions and make Berkshire County accessible to all.

### Objectives:

- a. Enhance Public Transportation
  - b. Expand Passenger Rail
  - c. Coordinate Transportation Services
-

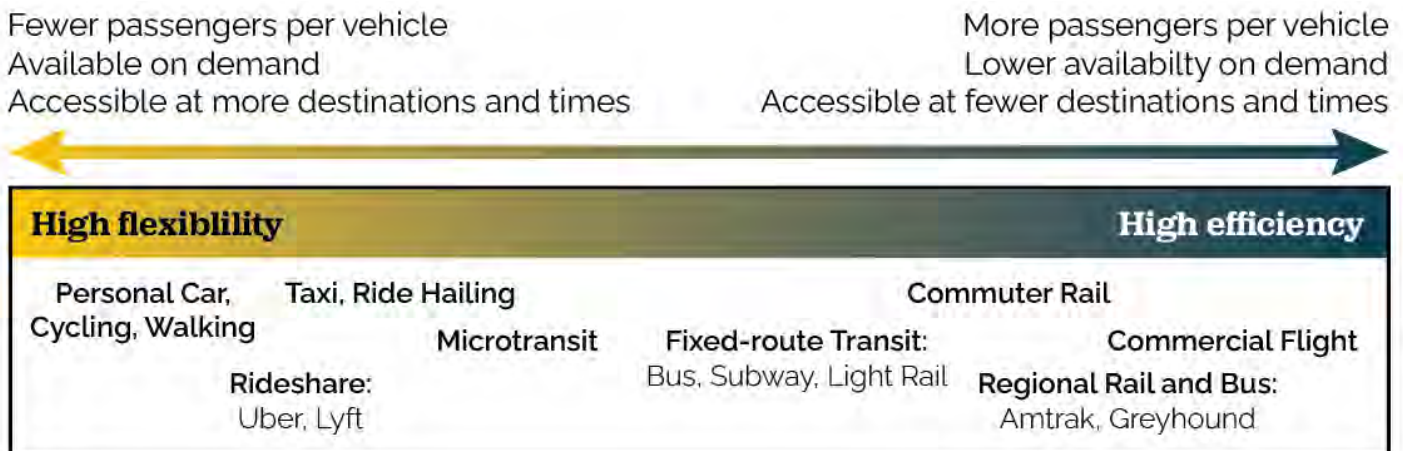
### 3a. Enhance Public Transportation

#### BACKGROUND

Transportation services can be imagined along a spectrum, with one end of the spectrum being highly flexible service, and the other end being highly efficient service. Efficiency, for the purposes of this transportation plan, means moving the highest number of people using the smallest spatial or infrastructure footprint. Highly efficient transportation concentrates many passengers on fewer trips, such as commercial flights, commuter rail and intercity buses. Highly flexible transportation is available to use on demand and at many locations. Maximum flexibility comes in the form of personal automobiles, bicycles, and walking. While high flexibility is desirable for personal mobility, large investments in infrastructure are needed to provide maximum flexibility. Parking lots and structures, low-density land uses, limited-access roadways, and decentralized fueling infrastructure are required to maximize flexibility.

Efficient transportation trades high levels of personal flexibility for less impact on the environment and more flexibility in land use. A loss in flexibility looks like fewer times for departure and arrival at points of interest and fewer locations served by the infrastructure in question. **Figure 3a-1** illustrates where different transportation services theoretically would fall on the flexibility-efficiency spectrum. Efficient public transportation in a rural setting like Berkshire County can be challenging. This objective will consider several modes of mass transportation and recommend future programmatic and infrastructural investments.

**Figure 3a-1: Transportation flexibility vs. efficiency**



#### TRANSPORTATION NETWORK COMPANIES (RIDESHARE)

Since 2017, the Massachusetts Department of Public Utilities (DPU) has gathered data from and reported on Transportation Network Companies, or TNCs. The most well-known examples of TNCs are Uber and Lyft, often called “ridesharing” companies. The DPU reports on the following TNC statistics:

- ◆ Number of rides in a calendar year
- ◆ Rideshare trips by city or town
- ◆ Year over year change in trips by city or town
- ◆ Number of rides started in, ended in, or staying within, a city or town
- ◆ Ride origin and destination locations
- ◆ Average speed, average distance, average travel time per ride
- ◆ Number of crashes involving a TNC operator

Selected statistics for Berkshire County have been extracted from the statewide database and summarized in **Figure 3a-2**.

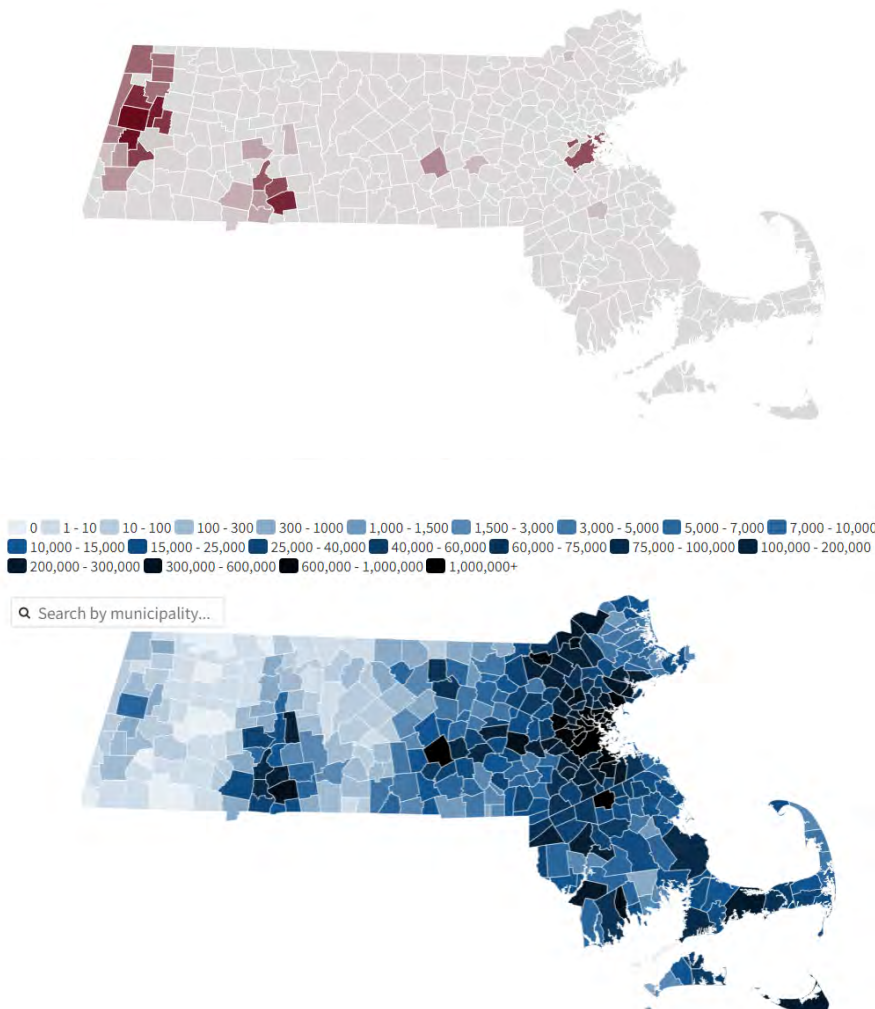
The majority of rideshare trip origins and destinations are in Pittsfield, where 73% and 66% of each, respectively, could be found in 2022. Of rides that originated in Pittsfield and ended elsewhere, Lenox was the most popular destination at 346 trips taken, followed by Dalton at 208 rides taken, and Springfield with 167 rides. **Map 3a-3** illustrates all destination towns recorded from rides originating in Pittsfield.

**Figure 3a-2: Selected Berkshire County TNC data**

Rides Started	11,227
Rides Ended	11,234
Total per-ride funds allotted to municipalities	\$1,122.70
Crashes reported	1

Berkshire County's isolation within the greater web of connectivity in the Commonwealth can be seen clearly in **Map 3a-4**. Eastern and Central Mass constitute an interconnected region with relatively high numbers of rideshare trips. The Connecticut River Valley is a second self-contained area of rideshare trips around that region. It is unclear how many rideshare trips may have been taken across state lines to New York, Vermont or Connecticut.

**Map 3a-3: 2022 Rideshare Destinations Originating in Pittsfield**



## KEY ACTION

Find and promote alternatives for long-distance TNC rides outside of Berkshire County that are more affordable to customers, where possible

## MICROTRANSIT

### Background

A new model of public transportation has emerged in the past decade as an alternative to fixed-route transit lines. Whereas buses, subways, and trains traditionally run on a predetermined route on a fixed schedule, microtransit breaks away from both of those ideas. Microtransit services will pick up passengers from locations requested through a smartphone app, website, or call center. The transit vehicle will then drop off the passenger at or near the requested destination, while also picking up or dropping off other passengers. This takes place within a designated service area.

It is important to distinguish *microtransit* services from *rideshare* services. While rideshare is operated by private enterprises, microtransit can either be provided by a regional transportation authority (RTA), or by a third party as a service. Microtransit and rideshare will often allow rides to be hailed "on-demand" on a smartphone app. A major divergence of microtransit from rideshare is that microtransit vehicles are often called to make intermediate stops during passengers' rides, either to pick up or drop off other passengers. This can create a range of unpredictability for pick up and drop off times.

Both modes of transit have advantages and drawbacks. For microtransit, it often has the advantage of much greater affordability than rideshare or taxi services. Microtransit operations are also locally accountable to the regional transit authority, rather than a national, venture capital-backed technology company. Ridesharing can offer a greater degree of reliability, with more accurate pick up

and drop off time estimations, and the ability to hire a wholly private vehicle rather than a shared vehicle. Rideshare services are generally much more costly to the end user, while offering little in benefits to operators such as sick leave and insurance, compared to employment with an RTA. Pick up and drop off windows for microtransit can vary depending on levels of demand and the route-drawing logic used for passenger pickup and drop off. While a certain microtransit route might be deemed most efficient by the computer controlling the route assignments, individual riders may observe longer travel times or indirect routing to their own destinations.

### Great Barrington Pilot Survey

In the winter of 2021-2022, a survey was jointly conducted in southern Berkshire County regarding potential usage of a microtransit system, were it to be implemented. Of the 2,232 responses, a majority in each town indicated that they would use the service at least somewhat frequently. Over 63% of respondents in the town of Stockbridge indicated that they would likely use the service frequently (once per week or more).

### Tri-Town Connector Pilot

On May 1, 2023, a microtransit pilot program launched in southern Berkshire County. Dubbed the Tri-Town Connector, the service provides coverage in most of the populated areas of Egremont, Great Barrington, and Stockbridge. Destinations such as the Berkshire Botanical Garden, Naumkeag, and the Norman Rockwell Museum, and

**Figure 3a-5: Tri-Town Connector Microtransit pilot**



Interlaken village in Stockbridge are now accessible by transit. Bard College at Simon's Rock, Walter J. Koladza Airport, and Butternut Ski Area are now accessible in Great Barrington. The village centers of North and South Egremont, along with Jug End State Reservation, are now accessible in Egremont. Branding for the initiative can be seen below in **Figure 3a-5**.

## ✓ KEY ACTION

Track usage and feedback for the Tri-Town Connector microtransit pilot and consider implementation in other regions if successful.

Tri-Town Connector offers enhanced services for seniors living in the service area, such as transportation for medical appointments to Berkshire Medical Center in Pittsfield as well as bundled tickets available for a flat rate. The pilot is expected to run for a one-year time frame. After the first year, stakeholders will assess running the program a second year.

## BERKSHIRE REGIONAL TRANSIT AUTHORITY (BRTA) BUS SERVICES

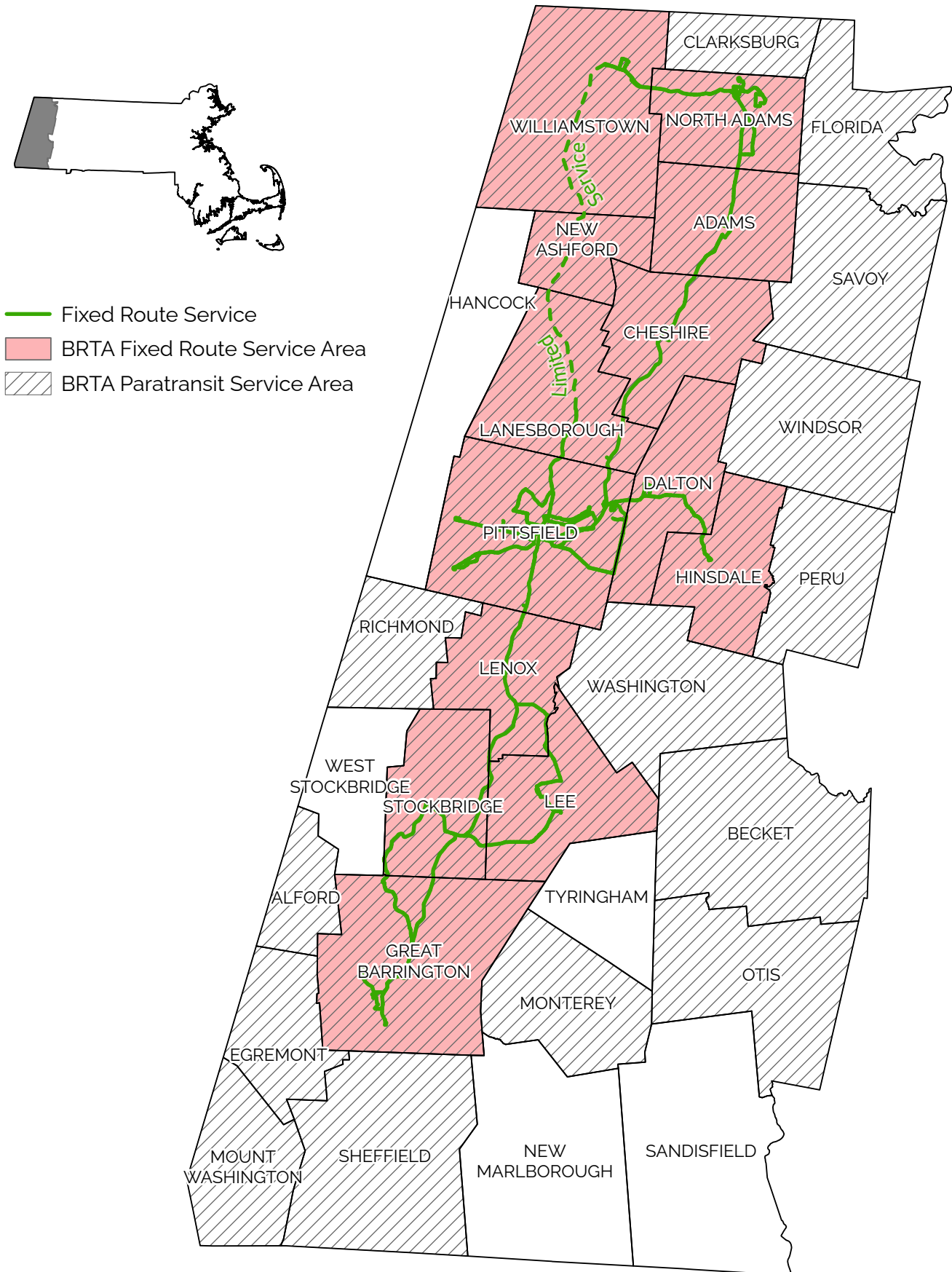
Berkshire County's public transit services are provided by the Berkshire Regional Transit Authority (BRTA). As of July 1, 2022, there are ten fixed routes around Berkshire County, plus one express route (21X), and one alternative branch that leaves and rejoins a line (5A and 5B). The majority of these routes serve the central area of the county, with both local and long-distance routes originating at the Intermodal Transportation Center (ITC) in downtown Pittsfield. There are two local loops that serve the North Adams-Williamstown area and a loop that serves the Lee-Stockbridge-Great Barrington southern Berkshire Area. Thirteen communities in total have fixed-route bus service passing through or terminating within their borders. Additional towns that do not have fixed-route service have paratransit services available for qualified passengers. System coverage can be seen in **Map 3a-6**.

### MassDOT Performance Data Tracker

Annual data on the performance of all Regional Transit Authorities (RTAs) is published by MassDOT's Tracker. These data provide a snapshot each year about the conditions of transit providers around the Commonwealth, including BRTA.

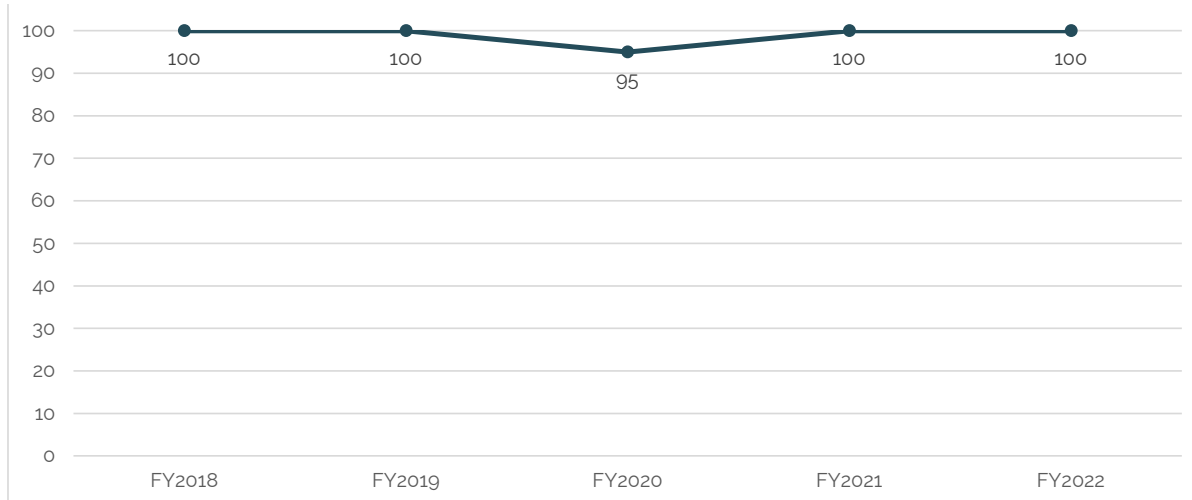
**Scheduled Trips Operated:** This metric shows how reliably a transit operator runs its scheduled routes. BRTA reported between 95% and 100% of its scheduled trips operated between FY2018 and FY2022. **See Figure 3a-7.** For fixed-route service, BRTA also reported an on-time percentage of 81%, and for paratransit, an on-time percentage of 97%.

**Map 3a-6: BRTA Service Area**

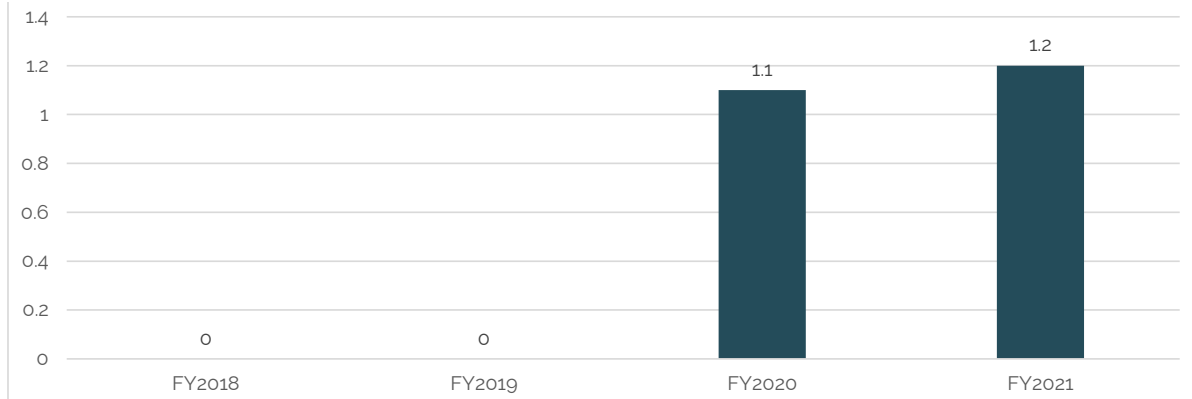


This map was created by the Berkshire Regional Planning Commission and is intended for general planning purposes only. This map shall not be used for engineering, survey, legal, or regulatory purposes. MassGIS, MassDOT, or BRPC may have supplied portions of this data.

**Figure 3a-7: BRTA Scheduled Trips Operated**



**Figure 3a-8: BRTA System Injury Rates per million Vehicle Revenue Miles**



**Safety:** System safety performance is tracked in injury rates or safety events per million vehicle revenue-miles (VRM). In FY2020, BRTA recorded 1.1 injuries attributed to the transit system per million VRM. In FY2021, there were 1.2 injuries per million VRM. No injuries were recored in FY2018 and FY 2019. See **Figure 3a-8**.

**Vehicle Useful Life:** According to MassDOT Tracker, FTA guidelines for useful life benchmarks for revenue vehicles are set at 12 years for articulated buses and regular buses, 10 years for minibuses, 7 years for cutaway buses, 4 years for minivans, and 13 for trolleybuses.

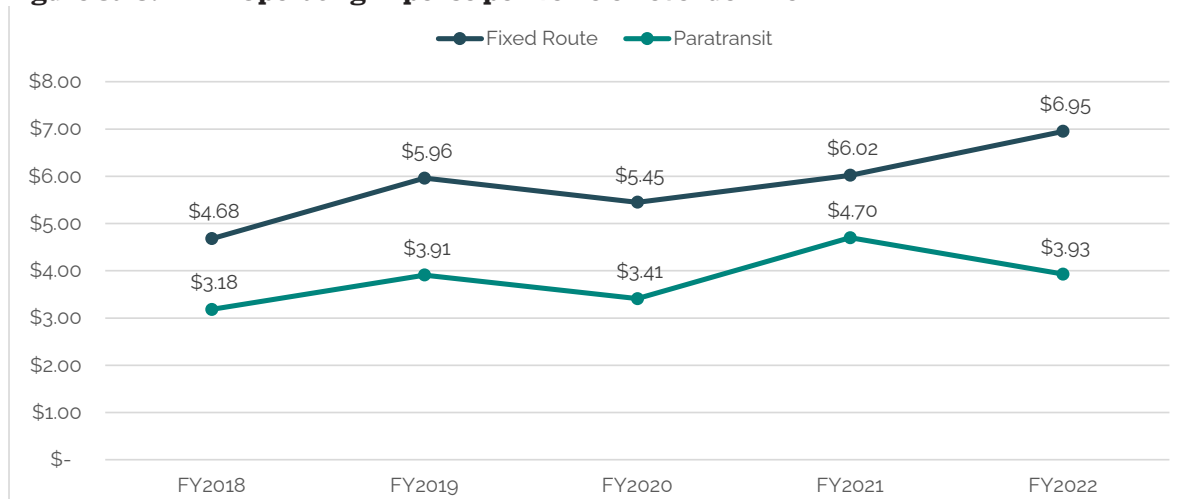
Each RTA sets a target for each type of its revenue vehicles that indicates the proportion of those vehicles that may be at or beyond their useful life benchmark. For example, an agency that operates both buses and vans in revenue service may have

different targets for proportion of buses and vans that may be at or above the applicable useful life benchmarks. Berkshire Regional Transit Authority (BRTA) met its target for minivans, but missed its targets for buses (11% target, 27.3% performance) and cutaways (19% target, 19.40% performance).

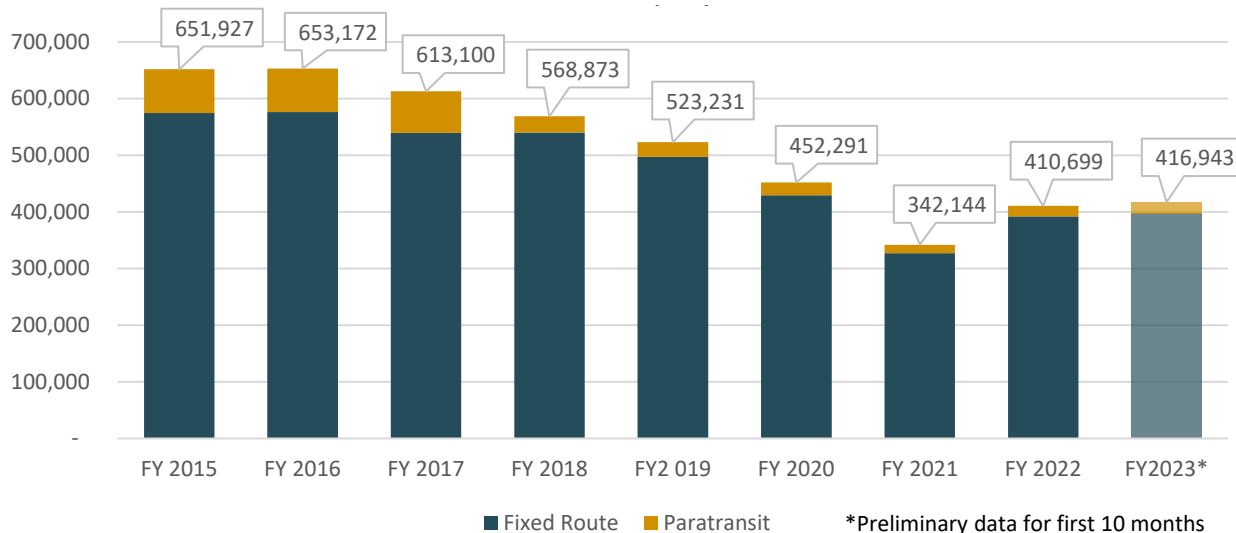
**Capital and Financial Performance:** Operating expenses for RTAs is reported in MassDOT Tracker as cost per vehicle revenue-mile (VRM). This indicates the total cost for running a transit vehicle for every mile it is in service. This does not count miles traveled while vehicles are not in service, such as returning to the garage. In FY 2022, BRTA fixed-route transit had an operating expense of \$6.95 per VRM. Historical operating expense data for fixed-route and paratransit can be found in **Figure 3a-9**.



**Figure 3a-9: BRTA Operating Expense per Vehicle Revenue-Mile**



**Figure 3a-10: BRTA Total Ridership by Fiscal Year**



**Ridership Trends and Coverage Area**

The BRTA provides annual reports on ridership for the full system, broken out into the fixed-route system and the paratransit system. In addition, the number of bicycles and wheelchairs transported on the fixed-route system has been tracked since 2017 (see **Figure 3a-11**). All BRTA buses are equipped with front-mounted bike racks that can hold two bicycles each.

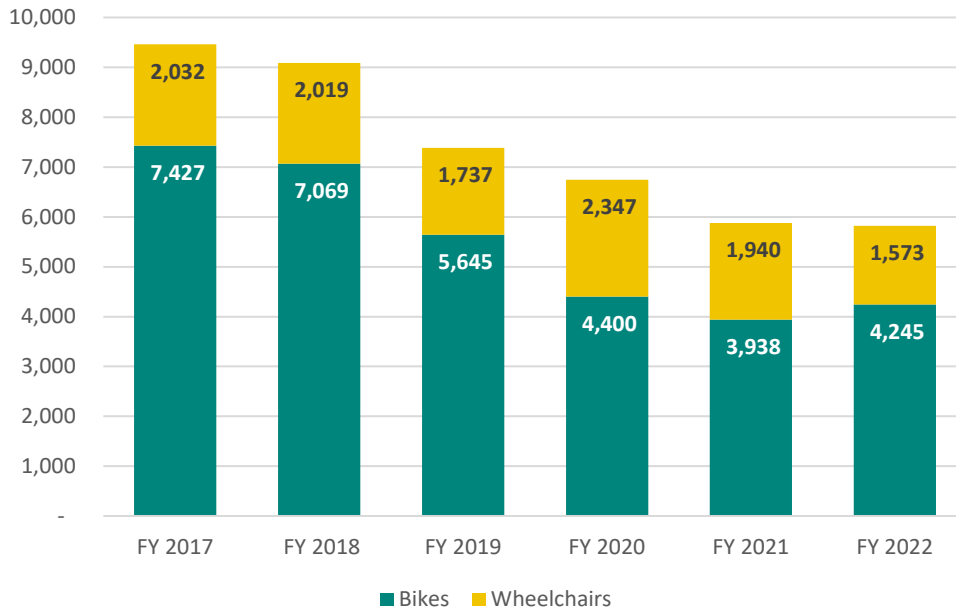
For FY2022, there were 391,921 rides recorded on the fixed-route system and 18,778 rides recorded on the paratransit system. Of the fixed-route trips, 4,245 included transportation of a bicycle and 1,573 included transportation of a wheelchair user. See **Figure 3a-10** for more data about these trips.

Ridership has begun to rebound from the travel restrictions instituted early in the COVID-19 pandemic. The pandemic began in spring 2020, which

was late in fiscal year (FY) 2020. The effects are more pronounced in fiscal year 2021, which ran from July 1, 2020 to June 30, 2021. At the time of writing, preliminary data available for the first 10 months of FY2023 indicate that ridership has already exceeded that of FY2022. It is hopeful that ridership will continue to grow as more travelers in the area opt to take transit to their destination.

Based on an analysis by BRPC using geographic information systems (GIS), approximately 56% of households in Berkshire County are within a 5-minute walk, or 1/4 mile, of a bus line. This rate comes from the 55,350 recorded households in Berkshire County. A 1/4-mile buffer was drawn around existing bus lines, and approximately 30,900 households were overlapped by this buffer. This represents a target audience to encourage ridership growth within the existing transit service area.

**Figure 3a-11: BRTA Bike and Wheelchair Transport by Fiscal Year**



**Transit Asset Management Plan (TAM)**

First enacted under the MAP-21 Federal infrastructure bill and continued under the FAST Act and BIL, transit agencies are required to create an inventory of assets and their conditions, and file a report to the FTA. The BRTA TAM completed in late 2016 prioritizes investments in future hybrid diesel/electric buses with charging stations, a satellite facility in North County, and increased service hours and frequency. The full TAM can be found in the **Appendix**.

**TRANSIT INITIATIVES IN THE BERKSHIRES**

Continuing the growth and effectiveness of public transit in Berkshire County cannot be accomplished by one single solution. This section explores initiatives that are currently in practice to expand transit in the Berkshire region. BRPC and the BRTA continue to advocate for sustained and increased resources to continue these initiatives, and to explore and develop new programs.

**Transit Workforce Solutions**

The BRTA is working to train the future transit workforce in Berkshire County through a collaborative effort with Masshire. Commercial drivers license (CDL) permit classes are offered through Masshire, and graduates of the class can continue on to testing for their CDL. There are also ongoing discussions with Berkshire Community College and the Berkshire Innovation Center on CDL training opportunities.

One challenge about CDL training in Berkshire County is the lack of a nearby testing facility. According to BRTA administration, license candidates must test either in Deerfield or Sturbridge, MA. Opening a testing facility in Berkshire County would allow local candidates to more easily attain a CDL.

**Opportunities for Rider Involvement**

Hearing from and supporting the riders that utilize public transportation in Berkshire County helps the system continue its growth and effectiveness. The best way to gather data is directly from the riders

themselves. The BRTA and other transportation service providers should continue soliciting rider feedback and look for opportunities to grow involvement.

The BRTA has a precedent of seeking feedback from its riders via periodic customer surveys. It is recommended for this practice to continue and expand as practicable. The most effective surveys are conducted on the vehicles, talking with customers while they are riding. A passive feedback station that asks the same questions could also be set up at the Intermodal Transportation Center. Results of customer feedback have been provided in agency annual reports and separate publications when necessary. Annual reports can be found on the BRTA's Open Government page on [www.berkshirerta.org](http://www.berkshirerta.org).

Gathering customer data in a repeatable way over consistent intervals helps measure performance of the transit system. Semi-annual or quarterly survey deployments could help capture how ridership adapts to different seasons and daylight conditions. Part-time ambassadors or community navigators who are trained in conducting the intercept surveys would be deployed on this schedule to gather feedback and build the response database. If responsiveness is low among customers, an incentive could be considered such as a gift card or preloaded Charlie Card. Partnership with the Downtown Pittsfield, Inc. (DPI) Ambassador program as part of the Berkshire Flyer helped to gather ridership feedback and data during the

first season of operation. An expanded partnership with BRTA fixed-route services could also provide more insights.

Other lines of community involvement and feedback can also be considered, such as a ridership association comprised of customers who regularly utilize public transit and paratransit for mobility. The BRTA Travel Training program is another important rider-involvement resource for passengers to learn how to take full advantage of the transit system.

### **Transit Fares**

As public transit continues to evolve during the 21st century in North America, the topic of fares is frequently brought forward. There is a diverse range of opinions about the efficacy of charging fares on transit in the present day.

## **KEY ACTION**

Build a road map for allocating resources toward the initiatives that the BRTA considers beneficial to its mission and vision

Arguments for keeping a fare on public transit include its importance as a source of revenue for many agencies, and its means of providing a sense of ownership and investment to customers who utilize the service. Arguments for eliminating fares include the reduction of barriers to the most marginalized in our communities, the potential to reduce conflicts brought about by fare charges or fare evasion, reduction in infrastructure costs for collecting fares, and more efficient boarding procedures.

The BRTA, along with all transit agencies in Massachusetts, participated in a fare holiday program at the end of the 2022 calendar year. The "Try Transit" initiative offered by MassDOT allowed all RTAs in the Commonwealth to offset their farebox revenues with a grant for a fixed period. The agencies could, therefore, offer free rides between Thanksgiving and New Year's Eve in 2022, approximately six weeks. BRTA noted an increase in ridership for the month, though fell just short of the projected goal of 55,000 riders during the month.<sup>1</sup>

<sup>1</sup> <https://www.iberkshires.com/story/70526/BRTA-s-Fare-Free-Month-Well-Received-by-Community.html>

A single-digit farebox recovery percentage (9% in the case of BRTA) is not unique. Farebox recovery refers to the proportion of an agency's revenue that is funded by fare collection. According to MassDOT Tracker, 9 of the 15 transit agencies across the Commonwealth reported their most recent farebox recovery ratio for fixed-route transit being in the single digits. Three of the 15 agencies have eliminated their fare collections since the beginning of the COVID-19 pandemic:

- ◆ Franklin Regional Transit Authority
- ◆ MetroWest Regional Transit Authority
- ◆ Worcester Regional Transit Authority

A further study on the benefits, drawbacks, impacts, and opportunities if BRTA were to eliminate fares should be conducted to determine what the best route forward may be for the transit agency. It may not be a black-and-white solution. Reduction of fares to \$1, for example, could continue to offer a source of revenue while also providing relief to transit customers and more efficient interactions with fareboxes that are unable to make change.

### **Expansion to New Communities and Regions**

One of the most consistent pieces of public feedback in Berkshire County is a desire to expand coverage of transit service. Feasibility studies of providing fixed-route service to additional towns who have not yet joined as a BRTA Member Community should be considered. With the recent addition of Hancock as a BRTA member, there are now 28 municipalities in Berkshire County contributing to the public transit system, either for fixed route service, paratransit service, or both.

Service expansion to neighboring regions was also cited frequently in the Transportation Community Survey and BRTA's latest customer feedback survey. Service that interfaces with CDTA lines in the Albany area, or PVTA lines in the Springfield area could help bridge the gap of alternative transportation options to these population and employment centers. There has been preliminary consideration of extending a BRTA service line eastward along Route 9 from Windsor to Cummington, where it would meet with a PVTA route that extends westward from Williamsburg through Goshen. It is recommended to explore further collaboration and study opportunities to determine the feasibility a regional connection in this manner or on another route.

## **Alternative Fuel Vehicles**

Pursuit of the Commonwealth's Carbon Reduction Plan (CRP), along with a need for vehicle longevity and sustainable energy sourcing points toward transit vehicles powered by alternative energies. These can include diesel-electric hybrid, battery-electric vehicles (BEV), and hydrogen fuel-cell technology. Hydrogen could prove to be a good fit for the Berkshire region. Long bus routes through remote areas may not be conducive to battery quick-charging technology without costly power infrastructure upgrades. The smaller form factors of many BRTA apparatus (buses under 30 feet in length, for example) could make it challenging to carry batteries with enough range to meet the needs of some routes.

The energy density of hydrogen fuel cells, coupled with a sustainable sourcing of the hydrogen fuel, could make for a compelling option to suit the BRTA's needs. A feasibility study should be commissioned to lay out the full costs, labor, suitability, and environmental impacts of alternative-fuel buses for the Berkshire region. Combinations of FTA formula funding and future CRP fund sub-allocations could assist in these efforts.

From a big picture perspective, getting more travelers to opt for a trip by bus over a single-occupancy vehicle is a benefit to the environment, regardless of the fuel source for the bus. Fleet adaptation to zero-emissions vehicles should not be undertaken at the expense of bus service.

## **Transit Hub and Stop Planning**

Creating efficient transit hubs and stops in the densely-populated areas of northern, central, and southern Berkshire County can enhance the rider experience. Flag stop zones along more rural segments of routes are a good way to support ridership in more Berkshire County towns. Placement of discrete bus stops within more built-up areas can also enhance ridership by creating a more predictable and reliable ride. The BRTA has begun placing route stop signs along select corridors in Pittsfield. These also have the added benefit of increasing awareness of public transit for nearby destinations and foot traffic.

Regional transit hubs in northern and southern Berkshire County would enhance the ridership experience, including transfers. A fully-enclosed building or covered staging area better shelters

riders from the elements. A northern Berkshire hub would help consolidate the three routes that serve the area (1, 3, and 34). Creating a central hub would also reduce the need for a second transfer to take transit to Williamstown. The town of Williamstown is the only area of BRTA service that requires two transfers when traveling to or from the ITC in Pittsfield. Consolidating the three northern Berkshire routes at a hub would make this trip shorter.

If further microtransit service is provided around the region, transit hubs would make for an efficient point for customers to interface between this service and the fixed-route vehicles. Dedicated space to load and unload from microtransit could free up curb and road space for other uses in a downtown setting.

## **RECOMMENDED PROJECTS:**

- ◆ Implement a microtransit service in additional areas of Berkshire County. Estimated cost: \$4,200,000
- ◆ North and South County transit hub locations, including vehicle storage and staging. Estimated cost: \$1,150,000 per hub
- ◆ Run fixed-route services at 30-minute headways for daytime hours. Estimated cost: \$24,000,000

## **RECOMMENDED PROGRAMS:**

- ◆ Explore updated transit fare structure including free or reduced general fare
- ◆ Pursue increasing BRTA Member Communities to towns in the region who have yet to join
- ◆ Explore fixed-route services to more towns in the region and connections to neighboring transit systems, such as via Route 143, Route 9, or Route 116 east to Franklin and Hampshire County.
- ◆ Develop a feasibility roadmap for fleet replacement using alternative-fuel vehicles as opportunities arise

### 3b. Expand Passenger Rail

#### BACKGROUND

The New England region is the one of the densest corridors for rail travel in North America. Intercity and commuter passenger services link nearly every major metropolitan area from Portland, ME to Newport News, VA. The Northeast Corridor is consistently the most profitable area of operation for Amtrak, the national passenger service provider. Commuter and regional rail serve the areas around Boston, New York, Philadelphia, Baltimore, and Washington, DC, creating a nearly complete fabric of coverage through the northeast. Lines of rail service also reach into the interior, such as service to Chicago, upstate New York, Canada, Connecticut, and Vermont. The Berkshires are tantalizingly close to connecting deeper into this vast rail network.

Currently, the only passenger rail service location in Berkshire County is the Joseph Sclesi Intermodal Transportation Center (ITC) in downtown Pittsfield. This center is served twice daily by Amtrak's Lake Shore Limited train between Chicago and Boston. This is the only rail link for western Massachusetts to its state capital. While there are many daily rail departures from Boston's terminal stations, they

radiate south and north toward Rhode Island and Maine, via Northeast Corridor and Downeaster service, respectively. Higher-speed Acela trains also travel between Boston and Washington, DC several times daily.

Berkshire County is nestled almost equidistantly between two extremely busy rail hubs. **Map 3b-1** provides an illustration of where Pittsfield lies geographically relative to rail lines in the northeast. The city of Springfield, MA has become a major node for rail travel in the past decade. With the introduction of the CT Rail Hartford Line in 2018, Springfield is served by four different rail lines: the Lake Shore Limited, the Vermonter, the Valley Flyer, and the Hartford Line. To the west of Berkshire County by nearly the same distance is the Albany-Rensselaer rail station. Serving the capital of New York State, this station also hosts several rail lines: the Lake Shore Limited, Empire Service, Adirondack, Ethan Allen Express, and Maple Leaf Service.

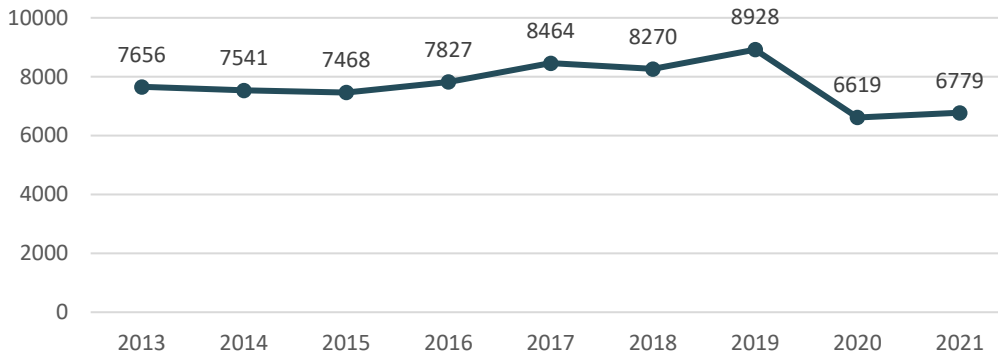
With only one connection in each direction per day, there is little chance for passengers to tap into the large number of connections available at these nearby rail hubs. Driving is most often the convenient choice for travel to Boston, New York City, or upstate New York.

**Map 3b-1: Detail of northeast passenger rail and bus service (published by Amtrak) (Pittsfield marked with black arrow)**



According to the RailPassengers Association, in 2021 there were 6,779 boardings and alightings in Pittsfield on the Lake Shore Limited Amtrak Line. This represents a 24.4% decrease from 8,928 in 2019, prior to COVID-19 travel restrictions. From 2020 to 2021, ridership increased 2% from 6,619 to 6,779 passengers. See **Figure 3b-2** for ridership over the past decade. Of passengers that had a trip originating or ending in Pittsfield, 92% were traveling 200 miles or less, according to the RPA. It is unclear if this includes New York City, which falls within a 200-mile radius of Pittsfield, but a train trip connecting via Albany-Rensselaer is approximately 205 miles using the Lake Shore Limited line and connecting to the Maple Leaf or Empire Service.

**Figure 3b-2: Amtrak ridership through Pittsfield by year (MA State Rail Plan/Amtrak)**



## RAIL INITIATIVES IN THE BERKSHIRES

### ***Berkshire Flyer***

In the summers of 2022 and 2023, Amtrak is operating a pilot train service between Moynihan Train Hall at Penn Station and Pittsfield's Intermodal Transportation Center (ITC). This is the first direct train service from New York City to the Berkshires in over 50 years. The service consists of one northbound trip originating in New York City's Moynihan Train Hall on Friday afternoons and one southbound return trip originating at Pittsfield's ITC on Sunday afternoons. Besides originating at Moynihan Train Hall and Terminating in Pittsfield, the Berkshire Flyer serves the following stations in New York State: Yonkers, Croton-Harmon, Poughkeepsie, Rhinecliff, Hudson, and Albany-Rensselaer.

According to the MassDOT Rail and Transit Division, the Berkshire Flyer recorded 819 tickets sold in total over the nine weekends of 2022 pilot service. There were 418 arrivals in Pittsfield and 401 departures from Pittsfield, with several dozen more boardings and alightings from Albany-Rensselaer and other stations.

After the conclusion of the second pilot period in the fall of 2023, future development of the rail corridor could take several directions. The pilot as operated could become a permanently established line, with one outbound trip from New York on Fridays and one return trip from Pittsfield on Sundays. This service could be expanded to operate year-round or continue to be a summer program. Expanding the Berkshire Flyer schedule could include more departures on Fridays and Sundays, or expanding to more days of the week, up to daily service.

Local feedback received as part of the 2022 service and through the RTP Transportation Community Survey indicated a desire for more frequent departures from Pittsfield to help the service become a more practical option for local residents. There has also been interest in exploring an alternative departure from New York on Thursdays or an alternative

return from Pittsfield on Mondays. Either option would allow visitors to spend an extra day in the Berkshire County region.

### ***Northern Tier Rail***

MassDOT is currently conducting a study to determine the feasibility and costs for operating a passenger rail line between Boston North Station and North Adams. As of January 2023, the Northern Tier Rail Study has presented analysis of two main alternatives: "Lower Investment" and "Higher Investment." The major differences between the two alternatives is the extent of track and infrastructure improvements along the existing rail line. Early planning-phase cost estimates are broken out by the study as follows:

- ◆ Lower Investment: \$1,044,850,000
- ◆ Higher Investment: \$2,187,350,000

Local stakeholders and planning staff will continue to follow the study process as it continues and advocate for the Berkshire region's needs.

### ***Massachusetts East-West Rail***

The East-West Rail initiative is currently under development to extend more frequent passenger rail service across the Commonwealth.<sup>1</sup> Alternatives for East-West rail include more frequent service, track upgrades to enable higher speeds in select segments, upgrades to double-track for the length of the East-West Corridor, or a fully re-imagined corridor with a new rail right-of-way separate from the existing CSX freight line. In total, six alternatives were considered during the study process conducted by MassDOT between 2018 and 2021. Variables considered between the alternatives included:

1 <https://www.mass.gov/east-west-passenger-rail-study>



## HISTORIC BERKSHIRE TRAIN SERVICE

Through the 1950s, regular train service ran from Grand Central Terminal in New York City to several stops in the Berkshires that were well-known for skiing, including Ski Butternut and Beartown State Forest. Each stop was serviced by "convenient and economical transportation between the station and skiing areas... as well as hot food and drinks." Other service included the *Berkshire Hills Express*, which ran from New York City to North Adams until 1953. *photo source: The Berkshire Edge*



- ◆ Trip departure frequency
- ◆ Travel speed
- ◆ Vehicle type (all-rail vs. bus-rail connection)
- ◆ Cost

The cost range for the preferred alternatives is between \$2.4 billion to \$4.6 billion. The next steps for the program to proceed include the establishment of a rail authority that would be responsible

for facilitating the construction, capital, and operating costs of the East-West rail corridor. Passenger Train Access Principles will need to be negotiated with CSX, the owner of the railroad corridor from the New York state line in the west to downtown Worcester in the east. Unless an entirely new corridor is constructed, the operator of the rail service would likely be Amtrak. There are many variables still to be considered, such as governance structure, staffing, operations, and dispatching, acquiring rolling stock, layover and storage facilities, maintenance, safety, and fare collection practices.

The Berkshire region strongly endorses a full rail connection from Pittsfield to Springfield and beyond to Boston. In addition, the Albany-Rensselaer station would make a logical western terminus with its additional transfers available for services to points south, north, and west. Pittsfield should serve as an intermediary station with service originating in Boston or Albany. With Berkshire Flyer service operating through Albany-Rensselaer as well, the potential exists to combine it with East-West rail into one service between Boston, Albany, and New York.

## **Housatonic Rail**

The Housatonic Railroad line runs in a north-south direction from Pittsfield, MA to Danbury, CT. In the Berkshires, the line passes through the towns of Lenox, Lee, Stockbridge, Great Barrington, and Sheffield. Currently, the line exclusively carries freight, with trips terminating at the CSX Pittsfield yard. Initial interest in the Housatonic line included running passenger service south to Danbury, CT, where passengers could transfer to MTA rail service to New York City. The state of Connecticut has expressed less of an interest in exploring passenger rail service, and as such, the focus of study has mainly shifted to be within Berkshire County only. Efforts to promote and study the possibility of restoring passenger service along the line have bloomed over the past decade. A "Bring Back the Trains" campaign has been organized in southern Berkshire County. During the 2020s, there has been more heavily shifted focus onto the East-West passenger service paradigm from Boston to Springfield, Pittsfield, and/or Albany. Additional rail services such as the Berkshire Flyer and East-West rail would allow for logical connection in Pittsfield to local service along the Housatonic Line or vice-versa. Passengers arriving from Boston or Springfield, for instance, could transfer to a local Housatonic rail car to continue their journey into southern Berkshire County. Expanded passenger facilities such as an additional siding for layover and boarding and a level-boarding platform would enhance this travel experience.

Travelers going east to Boston would likely be target audience of Housatonic line improvements. If potential New York City-bound passengers were to use the Housatonic to connect to the Berkshire Flyer or other westbound service to Albany, it would require significant doubling-back northbound to Pittsfield, then further north to Albany, before turning south for Penn Station. This 223-mile journey would not be a reasonable choice for most travelers from Great Barrington, when offered a trip option of 100 fewer miles by going to Wassaic Station in upstate New York, either by car or shuttle, and taking the Metro-North Railroad's Harlem Valley line to Grand Central Station.

Potential still exists for the Housatonic Line to serve passengers in the Berkshires. Envisioning a future of expanded rail service operating in Pittsfield, local service to Lenox, Lee, Stockbridge, and Great Barrington logically follows. Research and study has

been conducted by BRPC planning staff to determine initial feasibility of running passenger service on the Housatonic line. This includes site selection of passenger stations in Berkshire towns. One option that may fit the Berkshires is a passenger-rail-as-a-service scheme called Pop-Up Metro. According to Pop-Up Metro's founder, "A lightly-used branch line or short line railroad could co-exist with transit by running freight at night and passenger service during the day... Smaller communities and transit agencies, or larger agencies looking to extend service to less-populated areas, are candidates for Pop Up Metro."

Vivarail, the UK-based company that was developing and supplying the rolling stock and battery technology used by Pop-Up Metro, declared insolvency in early 2022, so the future of the technology and operations is unclear. A large passenger service provider like Amtrak, MBTA, or MTA would likely not operate on a local short line like the Housatonic. An independent operation or one governed by a local agency would be the most feasible option, along with diesel multi-unit (DMU) or electric multi-unit (EMU) rolling stock.

## **RECOMMENDED PROJECTS:**

- ◆ Continued operation of the Berkshire Flyer service, with potential assimilation into East-West Rail service west of Pittsfield. Estimated cost: \$750,000 per year
- ◆ East-West passenger rail connection through Berkshire County. Estimated cost: \$2.4-4.6 billion statewide
- ◆ Expanded passenger facilities at the Intermodal Transportation Center including 1000-ft track siding and level boarding platform. Estimated cost: \$6,000,000
- ◆ Explore a pilot program of passenger rail service along the Housatonic Line from Pittsfield to Great Barrington. Estimated cost: \$62,400,000

## **UPWP ACTIVITIES:**

- ◆ Continue to participate in efforts to assess the feasibility of Northern Tier passenger rail to North Adams
- ◆ Study last-mile solutions to bring passengers to and from the ITC for rail transportation



## 3c. Coordinate Transportation Services

### BACKGROUND

There are many transportation services around Berkshire County that provide rides to senior and disabled passengers. The individual providers and types of services vary between towns. Coordinating between the many different providers can become a logistical challenge in a rural area where travel may span across several towns. As of December 2022, there are 49 different transportation providers that operate within Berkshire County. These include mass transit providers like BRTA and Amtrak, as well as Councils on Aging (see **Figure 3c-1**), human services organizations, taxis, limos, and coach buses. It is in the best interest of Berkshire County residents to have a highly coordinated, easy to access, ride services system that can reach healthcare, social, and recreational destinations, in order to live with a high quality of life.

Berkshire County ride services currently appear in a 2-1-1 hotline system, administered by the United Way. Among the many forms of assistance and support provided by Massachusetts 2-1-1, callers can also request information about booking transportation services for elderly and disabled consumers.

For many residents who are older, disabled, or low-income, it can be especially challenging to navigate the transportation services available. In a

**Figure 3c-1: Council on Aging (COA) vans provide mobility services for seniors living within the town served by the COA.**



more rural region like Berkshire County, mobility can be extremely restricted by the lack of a personal automobile. The goal of enhanced transportation service coordination is to make travel more streamlined and intuitive for those who have additional needs in getting around.

### **Regional Coordinating Councils**

Starting at the end of 2013, Regional Coordinating Councils (RCCs) were formed across the Commonwealth. Their formation was based off of a recommendation by the Community, Social Service, and Paratransit Transportation Commission.<sup>1</sup> The goal of RCCs is to convene representatives of human service agencies, state agencies, transit authorities, regional planning agencies, consumers, advocates, and other stakeholders to discuss transportation needs in the community. RCCs are specifically focused on older adults, people with disabilities, and low-income commuters. Berkshire County is served by the Berkshire Regional Coordinating Committee on Transportation (BRCCOT).

### **COORDINATED HUMAN SERVICES TRANSPORTATION PLAN (CHST)**

Transportation coordination efforts in Berkshire County are generally guided by the CHST. This document is updated periodically as the need arises or demographic changes take place, such as with the 2020 Census update. Updates are guided, in part, by members of BRCCOT.

The 2023 update to the Berkshire CHST offers fourteen priorities, some of which intersect with other regional initiatives. In general, the priorities call for expanded access to major employment centers via transit, expansion of options for weekend and third-shift workers, expanding services to underserved communities and

<sup>1</sup> <https://www.mass.gov/doc/executive-order-530-final-report-1/download>

discounted fares for healthcare travel, acquiring new transit vehicles, providing language and interpretation service, and exploring microtransit and bikeshare options for the region.

The CHST provides a means for the region to leverage "Section 5310" federal transportation funding. This funding is intended to enhance mobility options for senior and disabled residents. Funding can provide special programming for residents beyond traditional fixed-route and paratransit services. Eligible activities include acquiring buses and vans, procuring wheelchair lifts, ramps, and securements, transit-related information technology like call systems, mobility management programs, and contracts for transportation services.

Other innovative projects that could be funded by Section 5310 include travel and driver training, building accessible paths, improving signage, door-to-door transport services, and purchasing new accessible taxi or rideshare vehicles. Once completed, the full CHST plan should be shared with and used as a guide by all transportation providers in the region as a best-practice.

## MOBILITY MANAGEMENT

Mobility management is the practice of connecting transportation providers to get people where they need to go. For residents who lack a personal vehicle or cannot drive due to age or disability, a mobility manager can assist with getting the resources they need. A manager may be associated with a council on aging, a regional transit authority, disability center, or veteran's organization to name several examples. Mobility managers are knowledgeable about the variety of transportation services in the area, will help individuals plan trips and arrange rides, as well as coordinate with and between transportation providers to get people where they need to go.

Given the size of the region and relatively long distances that some must travel for services and appointments, a regional mobility manager or team would provide a benefit to those who may need assistance coordinating travel. This may take the form of a one-stop call center where customers or caregivers could call and arrange a ride or learn the options available to them. It is recommended to further explore the current conditions and possibilities for expansion of mobility management and transportation coordination in Berkshire County.

## AGE AND DEMENTIA-FRIENDLY ACCESSIBILITY CONSIDERATIONS

In 2022, the Massachusetts Advisory Council on Alzheimer's Disease and All Other Dementias<sup>2</sup> published a report on recommendations for age-friendly and dementia-friendly design of infrastructure.

Based on projections by UMDI, adults over the age of 65 will comprise 28.5% of the region's population by 2040. Fostering an age-friendly and dementia-friendly transportation network should be considered a regional priority.

The MAC report lays out several recommendations to improve transportation and wayfinding for those living with Alzheimer's disease or dementia.

- ◆ Transit stops are conveniently located whenever possible, safe and accessible to people with mobility disabilities.
- ◆ When stations can't be conveniently located or limited, voluntary transportation service to stations is provided.
- ◆ Clearly marked signage at bus and train stops.
- ◆ Consider marking bus and train stops by using both icons and words, and making signs large enough to notice and read at eye level.
- ◆ Consider street signs at strategic locations to direct people to transportation hubs.
- ◆ Consider using a non-glare surface for signs and contrast between letters and the surface

## UPWP ACTIVITIES:

- ◆ Implement recommendations of the CHST 2023 updates as resources become available
- ◆ Develop a dementia-friendly Berkshires framework for guiding public works projects and transportation improvements
- ◆ Explore the benefits of a regional mobility manager who could centralize mobility services for Berkshire constituents
- ◆ Continue convening the Berkshire Regional Coordinating Council on Transportation (BRC-COT) to assess accessibility needs in the region
- ◆ Pursue opportunities to leverage the MassDOT Community Transit Grant Program

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2 <https://www.mass.gov/orgs/massachusetts-advisory-council-on-alzheimers-disease-and-all-other-dementias>

# Goal 4



## Increase Safety and Security

For the past decade, traffic fatalities and serious injuries have been rising in the United States, after dropping dramatically beginning in the 1970s. As other industrialized nations worldwide have been continuing to reduce their traffic casualties, North America has frustratingly moved in the opposite direction. The factors contributing to this trend are complex. What has shown to be effective, however, is when a country implements a **Safe Systems** approach to its transportation network, with the goal of reducing traffic fatalities and serious injuries to zero.

### Objectives:

- a. Adopt the **Safe Systems** approach
  - b. Continue roadway safety audits and countermeasures
  - c. Standardize crash data
-

## 4a. Adopt the Safe Systems Approach

### BACKGROUND

The trend of declining road fatalities in the United States has reversed in the past ten years. 2021 was the deadliest year on American roads since 2005.<sup>1</sup> The National Highway Traffic Safety Administration (NHTSA) reports that 42,939 people have died in traffic crashes in 2021, up 10% since 2020. This marks the highest year-over-year increase in the history of fatality record keeping. NHTSA projects 2022 fatalities to decrease marginally by -0.3%, to 42,795.<sup>2</sup> Final fatality statistics are still being processed for 2022.

Massachusetts saw an increase of fatalities of over 20% between 2020 and 2022, from 343 to 413, then to 439. Berkshire County fatalities have fluctuated from 2020 to 2022, from 15 to 10 to 12.<sup>3</sup> See **Map 4a-2** for a map of all road fatalities in Berkshire County between 2015 and 2022.

While Berkshire fatalities have fluctuated in the past several years, there has been a noticeable rise statewide in fatal single-vehicle and roadway-departure crashes. Both statistics saw all-time highs in 2020, the latest year of complete data from NHTSA FARS (see **Figure 4a-3**).

Motorcyclist-related fatalities also reached a high of 7 in 2020, while dropping to 4 and 2 in 2021 and 2022 respectively, according to MassDOT IMPACT data. According to the IMPACT geolocation data, the majority of fatal motorcycle crashes occur on rural roadways, with only four of the 13 mapped fatalities taking place in an urban or built-up environment.

The Commonwealth is making safety progress in several areas of performance. Since reporting

began under the federal FAST Act in 2018, and is now continued under the Bipartisan Infrastructure Law (BIL), Massachusetts has seen year-over-year declines through 2021 in the 5-year averages for annual fatalities, serious injuries, serious injuries per 100 million VMT, and non-motorized (i.e. bicycle and pedestrian) combined fatalities and serious injuries.

### WHAT IS THE SAFE SYSTEMS APPROACH?

Keeping users safe in a complex system like our transportation network requires systems-level thinking. Rather than relying on interventions which are mainly focused on correcting human behavior (i.e. traffic stops, public service announcements), a safe system paradigm takes a different approach. The system adopted by the U.S. Department of Transportation (USDOT) and MassDOT follows six overarching principles to guide transportation policymaking:

1. Death and serious injuries are unacceptable
2. Humans make mistakes
3. Humans are vulnerable
4. Responsibility is shared
5. Safety is proactive
6. Redundancy is crucial

In the Safe System, the ultimate measure of performance is zero fatalities and serious injuries. As long as there are fatalities and injuries occurring, there is work and improvement to be made. The Safe System

**Figure 4a-1: Principles of the Safe System Approach (from USDOT)**



1 National Center for Statistics and Analysis. (2022, April). Early estimate of motor vehicle traffic fatalities in 2021 (Crash•Stats Brief Statistical Summary. Report No. DOT HS 813 283). National Highway Traffic Safety Administration

2 National Center for Statistics and Analysis. (2023, April). Early estimate of motor vehicle traffic fatalities in 2022 (Crash•Stats Brief Statistical Summary. Report No. DOT HS 813 428). National Highway Traffic Safety Administration.

3 MassDOT IMPACT Dashboard <https://apps.impact.dot.state.ma.us/>

relies on overlapping, redundant strategies to reach the goal of zero fatalities. These include:

- ◆ Behavioral interventions (Safer people)
- ◆ Roadway countermeasures (Safer roads)
- ◆ Laws, policies, and enforcement (Safer speeds)
- ◆ Vehicle safety features and performance (Safer vehicles)
- ◆ Emergency Medical care (Post-crash care)

### MASS. 2023 SHSP

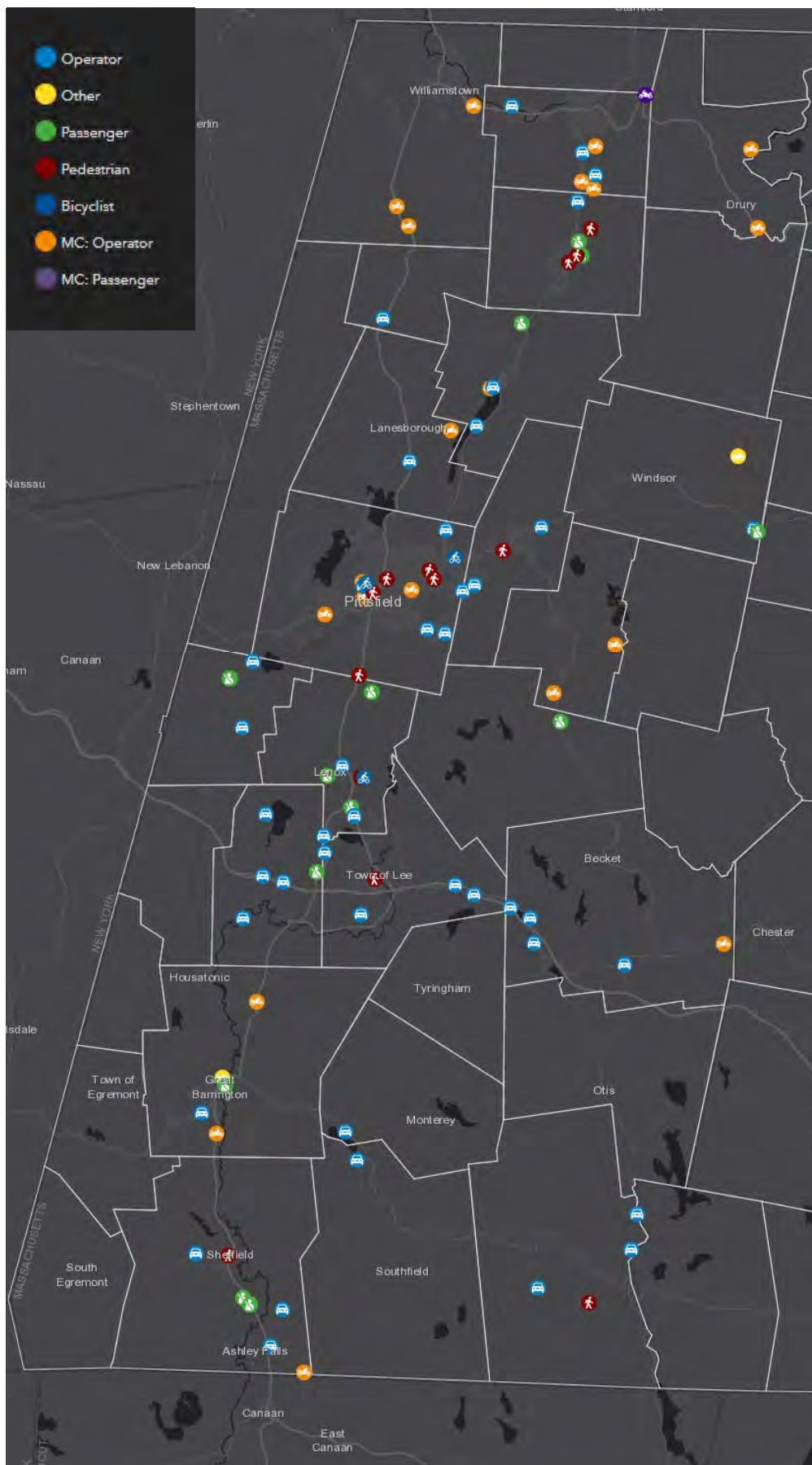
In January 2023, MassDOT released the 2023 Strategic Highway Safety Plan (SHSP). This plan will be in effect for five years until 2028. The previous SHSP was released in 2018, and is now phased out as the new SHSP is adopted.

As part of the federal Highway Safety Improvement Program (HSIP), this plan is to be updated at least every five years. Fourteen common crash types and conditions have been identified by the SHSP to be addressed by countermeasures. MassDOT notes that the Safe Systems Approach now provides a framework for selecting and prioritizing countermeasures based on the five principles previously identified in **Figure 4a-1**.

The SHSP calls for six initiatives to be carried out over the next 5 years:

- ◆ Implement speed management to realize safer speeds
- ◆ Address top-risk locations and populations
- ◆ Take an active role to affect change in vehicle design,

**Map 4a-2: Fatal crashes by victim type in Berkshire County, 2015-2022**



**Figure 4a-3: Berkshire Fatality Analysis and Reporting System (FARS) statistics**

Fatality Type	Fatalities					Fatalities Per 100,000 Population				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
<b>Total Fatalities (All Crashes)*</b>	12	11	16	13	15	9.44	8.69	12.68	10.38	12.04
<b>(1) Alcohol-Impaired Driving (BAC=.08+) Fatalities</b>	2	2	5	4	3	1.57	1.58	3.96	3.19	2.41
<b>(2) Single Vehicle Crash Fatalities</b>	7	5	8	6	11	5.50	3.95	6.34	4.79	8.83
<b>(3) Large Truck Involved Crash Fatalities</b>	3	1	2	0	1	2.36	0.79	1.59	0.00	0.80
<b>(4) Speeding Involved Crash Fatalities</b>	4	2	1	3	5	3.15	1.58	0.79	2.40	4.01
<b>(5) Rollover Involved Crash Fatalities</b>	3	2	3	2	2	2.36	1.58	2.38	1.60	1.61
<b>(6) Roadway Departure Involved Crash Fatalities</b>	5	6	10	8	12	3.93	4.74	7.93	6.39	9.63
<b>(7) Intersection (or Intersection Related) Crash Fatalities</b>	6	3	5	7	2	4.72	2.37	3.96	5.59	1.61
<b>Passenger Car Occupant Fatalities</b>	4	5	7	4	5	3.15	3.95	5.55	3.19	4.01
<b>Light Truck Occupant Fatalities</b>	5	2	1	4	1	3.93	1.58	0.79	3.19	0.80
<b>Motorcyclist Fatalities</b>	0	1	5	2	7	0.00	0.79	3.96	1.60	5.62
<b>Pedestrian Fatalities</b>	3	1	3	3	0	2.36	0.79	2.38	2.40	0.00
<b>Bicyclist (or Other Cyclist) Fatalities</b>	0	1	0	0	0	0.00	0.79	0.00	0.00	0.00

for bicyclists and pedestrians

Berkshire MPO has been tracking these statistics within the county using publicly available data. As part of the performance-based planning process, targets are to be set for each data point for the two subsequent years following the current year. Targets must demonstrate continuous improvement on the Performance Measures. Based on the data available for Berkshire County, **Figure 4a-4** shows historic and projected data for the PM1 data points listed above. Note that the gaps in data for the 2017-2021 periods represent the time lag for fully reporting the

data for 2021, which was still in progress at the time of writing.

For the last full 5-year analysis period of crashes (2016-2020), there were an average of 13.4 fatalities per year, or 0.92 fatalities per 100 million VMT. This marks the third year of increase since the lowest average reached in 2017. Serious injuries in the past five years averaged to 53.8 per year in Berkshire County, or 3.71 per 100 million VMT. This trend has shown an overall decrease and is targeted to continue.

Bicycle and pedestrian fatalities and injuries have fluctuated over the analysis period between an average of 9 to 11 per year. They are currently projected to remain level given the historic trends to work with, though reduction remains the overall goal.

**Transit Safety Performance Targets**

The Berkshire Regional Transit Authority (BRTA) is required to file a Public Transit Agency Safety Plan (PTASP) periodically with the FTA. The most recent targets include: Fatalities: 0; Injuries: 4; Safety Events: 3. The full report can be found in the **Appendix**.

**COMPREHENSIVE SAFETY ACTION PLAN**

As a part of turning the Safe Systems Approach into action, Berkshire County will be crafting and implementing a Comprehensive Safety Action Plan (CSAP) as part of the FHWA's Safe Streets and Roads for All grant program. Berkshire County has the unfortunate distinction of the highest road

features, and use

- ◆ Accelerate research and adoption of technology
- ◆ Double down on what works
- ◆ Implement new approaches to public education and awareness

BRPC planning staff will be working with state and local partners to align with these initiatives in Berkshire County wherever possible.

**SAFETY PERFORMANCE MEASURES**

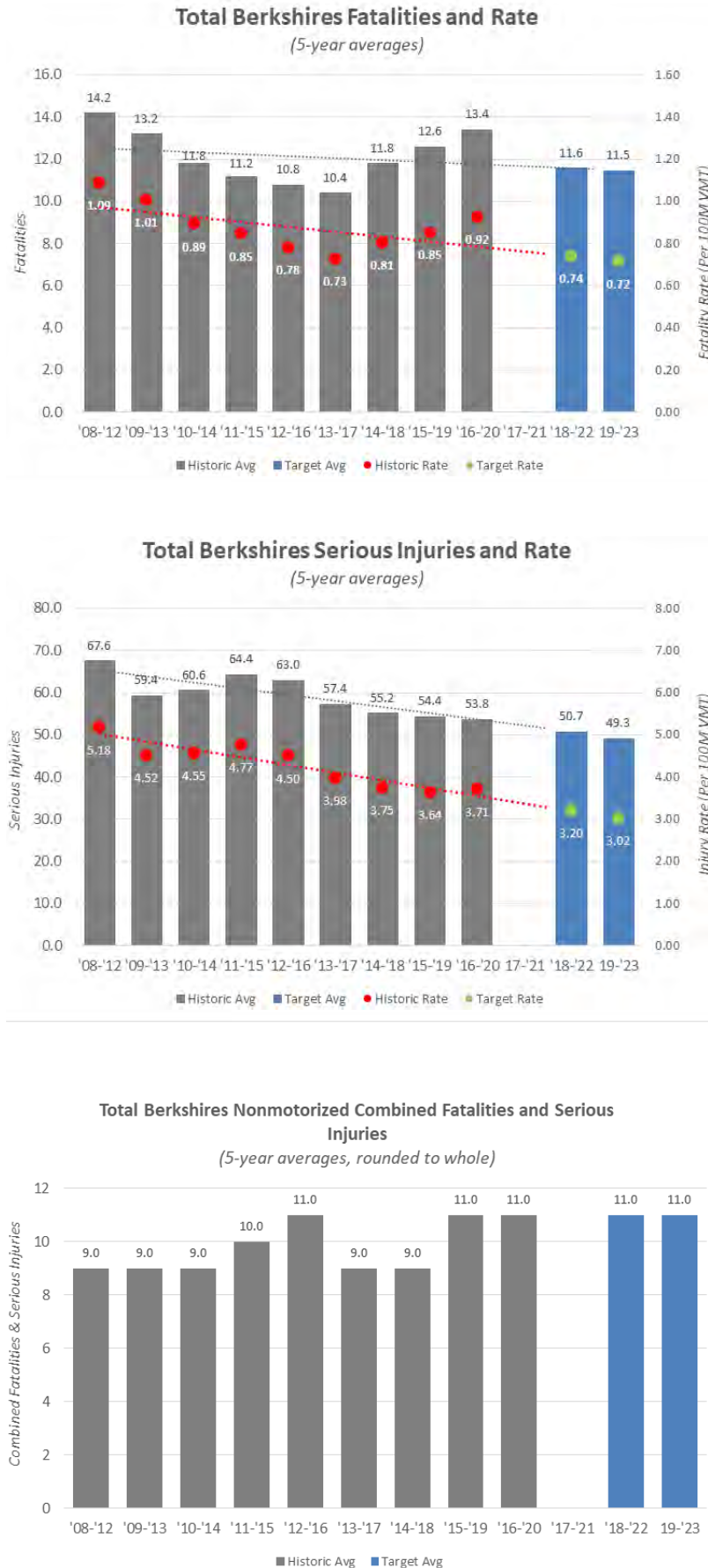
Initiated under the FAST Act, and carried through the BIL, performance-based planning must be carried out by state DOTs and local partners. Performance Measure 1 (PM1) deals with improving safety on our roads by reducing deaths and serious injuries. Performance is measured by the following data points:

- ◆ 5-year rolling average fatalities
- ◆ 5-year rolling fatality rate per 100 million VMT
- ◆ 5-year rolling average serious injuries
- ◆ 5-year serious injury rate per 100 million VMT
- ◆ 5-year average combined injuries and fatalities

**TARGET**

Attain a trend of reduction year-over-year in the three FAST Act safety Performance Measures: fatalities, injuries, and bike/ped combined.

**Figure 4a-4: Berkshire County PM1 Data as of 2023**



fatality rate per 100,000 residents in the state (10.3), more than twice the overall state average (4.9). This statistic may be partially attributed to the small populations of some Berkshire towns.

Berkshire Regional Planning Commission (BRPC), which also serves as the metropolitan planning organization (MPO), will manage the development of the Comprehensive Safety Action Plan. BRPC intends to involve a broad range of partnerships. An advisory committee of elected and non-elected town officials will oversee the plan development. Diverse stakeholders including public works departments, law enforcement and first response personnel, and community, minority, and neighborhood groups will be sought. Digital data and consultation will also be purchased to assist our planning efforts.

Highly cost-effective projects can achieve safety benefits over this expansive, predominantly rural, geographic area. The Action Plan intends to study where proven safety countermeasures to risky activities, like distracted and impaired driving, speeding, and lane departures, can be implemented systematically through the course of road improvement projects and further Implementation Grant opportunities. Projects that may seek further Implementation funding will be identified through the evidence and data gathered over the course of the CSAP's development.

The CSAP is the first phase in the Safe Streets and Roads for All process; it will in turn open the door for future funding opportunities for implementation projects identified within the plan. Projects should be targeted at reducing deaths and serious injuries on Berkshire roads.

The remainder of this section highlights several recommended focus areas for the CSAP to explore which are especially relevant to Berkshire County. Countermeasures are not limited to these options but the examples shared could be especially effective at addressing several of the emphasis areas listed in the Massachusetts SHSP.

## ACCESS MANAGEMENT (SAFER ROADS)

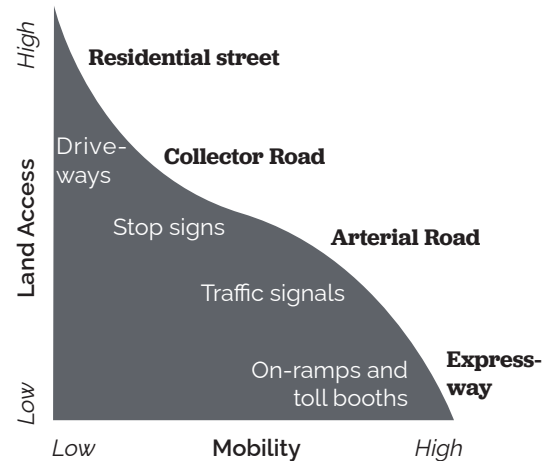
One crucial component of making safer roads is access control. In order for travelers to get on and off a road, they need a point of access. These access points could be driveways, other streets, or on-ramps and off-ramps on a highway. Planning where the points of access are, how many of them there are, and what traffic control components they use (i.e., stop signs, roundabouts, traffic lights), are the core tenets of access management.

The Massachusetts Turnpike, for example, is highly access-controlled, with entrances and exits spaced miles apart. This allows for travel speeds of 65 miles per hour, high volumes of traffic throughput, and long, uninterrupted, periods of travel. A residential street, in contrast, has low levels of access control. Every house has a driveway that directly accesses the street, with no traffic control. Traffic speeds and volumes are usually low. In between these extremes are the arterial roads that span between towns and often carry higher volumes of regional traffic. See **Figure 4a-5** for a visual representation of how mobility and access are related. Speed limits on these roads are lower than those for highways, though the roads are often designed to highway standards. High speeds and volumes are not problematic on their own, as expressways demonstrate. However, regional arterial roads in Berkshire County have historically been designed with low levels of access control. Driveways for businesses are frequent (with some having two curb-cuts on one parcel), and left turns across high-speed traffic are permitted with two-way left-turn-lanes. This combination of high speeds, high volumes, and low access control have made suburban arterials the most dangerous stretches of road in the country.

High levels of land access and high levels of vehicular mobility cannot safely co-exist in the same corridor. Designers have tried to create this balance with multi-lane arterial roads that utilize complex

traffic signals, high speed limits (40-50mph), and two-way left-turn lanes. Examples of these types of roads in the Berkshires include Stockbridge Road in Great Barrington, parts of Merrill Road, Dalton Avenue, and Hubbard Avenue in Pittsfield, Howland Avenue in Adams, and Pittsfield Road in Lenox. These roads also lack all the most basic pedestrian, bicycle, and transit amenities, further exacerbating the high levels of vehicular volumes to businesses and services in these corridors.

**Figure 4a-5: Mobility vs Access for Road Classifications**



There are several solutions available to remedy existing arterial designs, with either standalone or combined implementation possible:

### **Curb cut closures**

Parcels that front the road would have any redundant curb cuts or driveways closed, and only one point of access should be provided to the lot. This would reduce the number of locations for conflicting directions of traffic to meet.

### **Right-in-right-out (RIRO) driveways**

Driveways that connect to the arterial road would be channelized so that drivers can only make a right turn into the property and a right turn out of the property onto the road. This eliminates left-turn movements across traffic, which reduces the chances for a collision to occur.

### **Median closure**

The median of the road would be closed and built-up with a barrier to eliminate the possibilities of left turns across travel lanes. Drivers would need to use the nearest traffic light or other purpose-built area (such as a “jughandle” intersection) to execute a U-turn, or proceed onto an access road.

## KEY ACTION

Work with relevant jurisdictions to explore Access Management improvements on high-volume corridors to be determined



### **Separate access lanes and through-lanes**

An arterial would have fully separate through-lanes for travelers that are passing through the area and not wishing to access adjacent businesses. These lanes would be akin to “express” lanes on a highway, and would not have any adjacent access to land parcels. Access roads would run parallel to the through-lanes and be separated by medians or barriers. The access roads would have a low speed limit (25-35mph) and full access to driveways. Drivers could choose to turn onto the access roads at signalized intersections at the beginning of the corridor. Drivers wishing to access land on the other side of the road would need to proceed to the other end of the corridor and execute a U-turn. One example of this type of design is around the Latham Circle area near Albany, NY. Travelers who are not accessing the businesses adjacent to the road are able to travel more quickly and efficiently in the central lanes past the intersections and driveways.

### **TRAFFIC CALMING (SAFER SPEEDS)**

Traffic calming refers to the use of road design principles to slow the speeds of drivers naturally, without the need for regular enforcement. There are many aspects of road design that can be adjusted to lower the speeds of traffic. More than simply changing the number on a speed limit sign, good traffic calming measures are physical indications to drivers that they should lower their speed. These measures are intended where speed of traffic has been seen as a safety and quality of life issue, especially in thickly settled areas, school zones, and other areas highlighted by local stakeholders. Traffic calming measures derive their

**Figure 4a-2: Horizontal deflection traffic calming**



effectiveness by changing different parts of how a street or road is built.

Traffic calming is a more sustainable means of achieving a desired travel speed than law enforcement or automated enforcement alone. Physical changes to the roadway will convey immediate feedback to motorists as to whether they are traveling the proper speed for a given context.

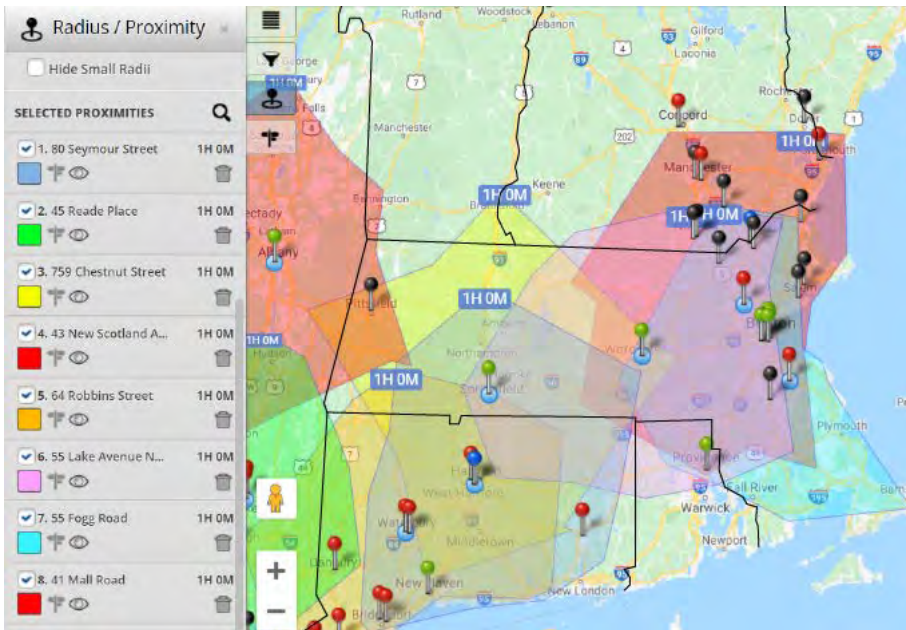
There are many examples worldwide of how physical changes to the road signal a change in travel speed for drivers. **Figure 4a-2** illustrates an example from the Netherlands of an artificial bend in the road that causes drivers to slow down as they enter a residential area. Traffic calming measures should be explored around Berkshire County as a means of creating safer and slower town centers where the most thickly settled neighborhoods are found, along with more people traveling on foot, bicycle, and transit.

### **EMERGENCY RESPONSE (POST CRASH CARE)**

When a crash does occur, first responders from law enforcement and emergency medical treatment will be called to the scene. Injured victims from a crash have a higher chance of survival and recovery if they are treated at an appropriate trauma center in an effective period of time. This can help prevent injuries from becoming more serious or fatal.

Responder access to a crash scene and a victim's access to rapid care should be taken into consideration when planning safety countermeasures and training first response personnel. Distance to appropriate trauma centers for injury treatment is an important consideration for improving roadway safety and reducing serious injuries and fatalities. Treating a crash victim within an hour of the event has been shown to increase their likelihood of survival. Trauma centers in the United States are ranked from 1-5 based on the availability of advanced equipment, surgical staff, and care facilities. The nearest Level I trauma centers that are best equipped to treat crash victims are located in Albany, NY and Springfield, MA. **Figure 4a-3** illustrates approximate 1-hour travel times to these and other Level I trauma centers. Some areas of Berkshire County are outside this travel radius. Road safety deficiencies in these areas (which include parts of Florida, North Adams,

**Figure 4a-3: Trauma center access in Berkshire County**



Sheffield, and Mount Washington) should be prioritized. Keeping roads and bridges in a state of good repair allows response crews to reach crash scenes as quickly as possible. Partial and full bridge closures should be addressed in terms of safety response if lengthy detours are required.

## AN ACT TO REDUCE TRAFFIC FATALITIES (SAFER PEOPLE AND SAFER VEHICLES)

A traffic safety bill that had been under consideration in legislative sessions since 2011 was signed into law on the last day of Governor Charlie Baker's administration in 2023. Among other provisions, the new law enacts several new regulations:

- ◆ 4-foot passing law: When a motor vehicle or truck driver desires to overtake a vulnerable road user (someone walking, cycling, using a scooter, wheelchair, or other low-powered mobility device), the driver must move aside to there is at least four feet of separation between the side of the vehicle and the vulnerable user. Crossing the centerline of the road is permitted when determined safe to do so.
- ◆ Truck safety enhancements: Any trucks or trailers purchased by the Commonwealth must be equipped with side-guard panels or skirts, additional mirrors, & back-up cameras.
- ◆ Speed limit modifications: Local jurisdictions may petition MassDOT for lowering speed limits on state-jurisdictional roads. MassDOT has 90 days to respond to the request, and, upon

approval, will install new speed limit signage in the targeted areas.

This Act joins the transportation bond bill passed by the state legislature over the summer, which legally classified electric bicycles for the first time as either Class I or II in the Massachusetts General Laws. Classes are based on the level of assisting power provided by the electric motor, and whether the bike has a throttle control. This allows for more nuance when regulating their operation in certain areas, like multi-use paths. Together, these new acts represent new important steps in making the roads of the Commonwealth safer for all users.

Towns and cities in Berkshire County are encouraged to work with MassDOT to install newly-approved 4-foot-passing regulatory signs on key thoroughfares and gateways to remind the traveling public of the new regulations and to form safer driving, cycling, and walking behaviors. Signs and posts are supplied by MassDOT and installed on local rights-of-way by municipal highway crews. See **Figure 4a-3** for a sample of the sign.

**Figure 4a-3: 4-foot passing regulatory sign**



## UPWP ACTIVITIES:

- ◆ Implement a Berkshire County Comprehensive Safety Action Plan
- ◆ Report yearly to MPO on changes to crash cluster and HSIP data
- ◆ Report yearly on Performance Measure 1 (PM1) data to MPO and MassDOT
- ◆ Assist in developing low-cost, expandable traffic calming solutions
- ◆ Assist in developing bylaws and guidelines which promote effective access management

## 4b. Continue Roadway Safety Audits and Countermeasures

### BACKGROUND

The Highway Safety Improvement Program (HSIP) is an ongoing initiative by the FHWA to take a data-driven approach to improving safety for the traveling public on the nation's roadways. Despite having the word "highway" in the name, all types of roadways are eligible for safety improvements via the HSIP program, provided they fall within the selection criteria of the program. According to the Massachusetts HSIP program administered by MassDOT,

*"The purpose of the Highway Safety Improvement Program (HSIP) is to reduce the number of fatal and serious injury crashes by targeting high crash locations and causes on all public roads. Projects, using HSIP funding, are required by FAST Act, the Federal Legislation Fixing America's Surface Transportation Act, to be a data-driven, strategic approach to improving highway safety on all public roads that focuses on performance.*

*The overarching requirement is that HSIP funds be used for safety projects that are consistent with the State's strategic highway safety plan (SHSP) and that correct or improve a hazardous road location or feature or address a highway safety problem. FAST Act provides an example list of eligible activities, but HSIP projects are not limited to those on the list. Workforce development, training, and education activities are also an eligible use of HSIP funds."*

There are fourteen safety strategy areas identified in the latest state SHSP that can be addressed by HSIP projects:

- ◆ Lane departure
- ◆ Impaired driving
- ◆ Occupant protection
- ◆ Speeding-related
- ◆ Intersection
- ◆ Older driver (65+)
- ◆ Pedestrian
- ◆ Motorcycle
- ◆ Young driver
- ◆ Truck-involved
- ◆ Distracted driving

- ◆ Bicycle
- ◆ Work Zone
- ◆ Grade crossing

### HSIP CRASH CLUSTER SELECTION

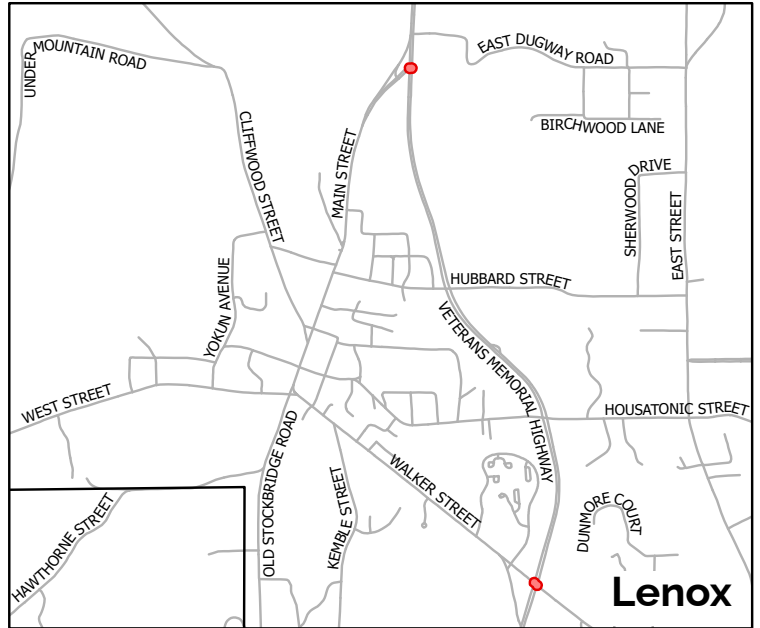
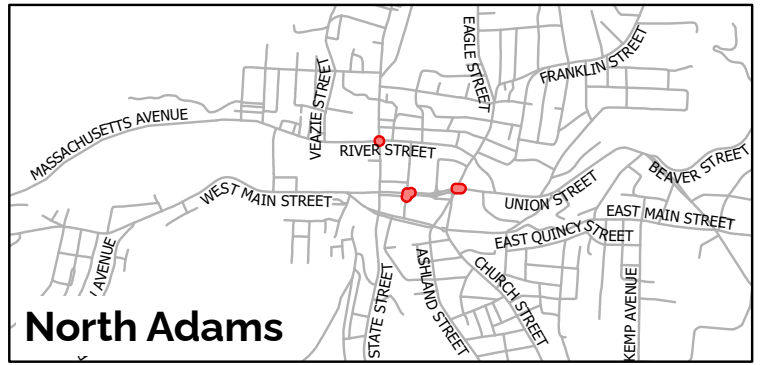
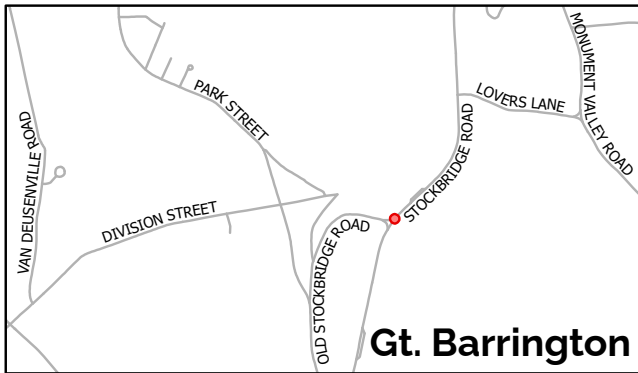
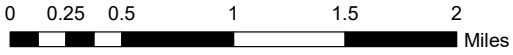
Spot safety improvements under HSIP (i.e. specific intersections or corridors) must be chosen in a data-driven manner to ensure effective use of limited funds. Locations are flagged using crash data and assigning aggregate scores based on crash severity. Locations where repeated crashes or high scores are recorded over time are referred to as **Crash clusters**. Crash clusters can be categorized into three groups: Intersection, Bicycle, and Pedestrian. Crash clusters identified in Berkshire County in the latest full analysis cycle (2018-2020) are shown in **Map 4b-1**. Intersection listings and rankings are shown in tabular form in **Table 4b-1**.

Clusters are given a score based on the severity of the collisions that occur within them. This measure is called "Equivalent Property Damage Only," or EPDO. When only vehicles or other property are damaged, the crash is assigned a value of one (1). When an injury or fatality occurs, the crash is given a value twenty-one (21). In this way, clusters can be ranked to determine where the most dangerous intersections within a region occur. Once ranked by EPDO score, the top 5% of crash clusters within a region are eligible for the HSIP pool of funding. These HSIP clusters represent the most dangerous intersections within a region based on the severity of the crashes that have occurred near them.

Crash clusters are also identified for bicycle and pedestrian related collisions. Because crashes involving non-motorized users are much less frequent and more spatially dispersed, a 100-meter radius is used for finding clusters or trends, and 10 years of crash data are analyzed to identify the clusters. The most recent pedestrian and cyclist crash cluster data for our region is from 2011-2020.

From 2015 to 2020 (two consecutive HSIP analysis periods), the most dangerous intersection for vehicles in our region was First Street and Fenn Street in Pittsfield. Over the three-year 2018-2020 period, there were 20 total crashes with 8 involving injuries.

- Intersection Crash Clusters 2018-2020
- Bicycle Crash Clusters 2011-2020
- Pedestrian Crash Clusters 2011-2020
- Roads



**Figure 4b-1: HSIP-eligible Crash Clusters, 2018-2020**

Top 5% Interesection Crash Clusters, 2018-2020								
Crash Count	City/Town	Fatal & Serious Injury Crashes	Non-Serious & Possible Injury Crashes	Non-Injury Crashes	Top 5% within Town	EPDO	Street 1	Street 2
20	PITTSFIELD	0	8	12	PITTSFIELD	180	Fenn Street	First Street
13	PITTSFIELD	0	7	6	PITTSFIELD	153	Plastics Ave	Dalton Ave
13	PITTSFIELD	1	6	6	PITTSFIELD	153	Dalton Ave	Benedict Road
28	NORTH ADAMS	1	5	22	NORTH ADAMS	148	Curran Mem. Hwy.	Hodges Cross Rd
21	PITTSFIELD	0	6	15	PITTSFIELD	141	Hubbard Ave	Berkshire Crossing
18	PITTSFIELD	1	5	12	PITTSFIELD	138	Linden Street	Seymour Street
12	PITTSFIELD	0	6	6	PITTSFIELD	132	Lakeway Dr	Valentine Rd
19	NORTH ADAMS	0	5	14	NORTH ADAMS	119	Union Street	Eagle Street
10	PITTSFIELD	0	5	5	PITTSFIELD	110	East Housatonic St	Pomeroy Ave
9	GT BARRINGTON	0	5	4	GT BARRINGTON	109	Stockbridge Rd (7)	Old Stockbridge Rd
8	PITTSFIELD	0	5	3	PITTSFIELD	108	Columbus Ave	Center St
20	PITTSFIELD	0	4	16	PITTSFIELD	100	Dalton Ave	Merrill Rd
14	PITTSFIELD	0	4	10	PITTSFIELD	94	Burbank Street	First Street
13	NORTH ADAMS	0	4	9	NORTH ADAMS	93	River Street	Houghton Street
12	NORTH ADAMS	0	4	8	No	92	Main St	Holden St
12	PITTSFIELD	1	3	8	No	92	West Street	Center St
10	LENOX	0	4	6	LENOX	90	Main St (7A)	Veterans Mem. Hwy.
10	LENOX	0	4	6	LENOX	90	Walker Street	Veterans Mem. Hwy.
9	PITTSFIELD	1	3	5	No	89	Williams St	Holmes Rd

Top 5% Pedestrian Crash Clusters, 2011-2020									
Crash Count	City/Town	Fatal & Serious Injury Crashes	Non-Serious & Possible Injury Crashes	Non-Injury Crashes	Top 5% within Town	EPDO	Street 1	Street 2	Street 3
37	PITTSFIELD	1	27	9	PITTSFIELD	597	North Street	Linden St	Tyler St
11	PITTSFIELD	1	9	1	PITTSFIELD	211	First Street	Melville St	Lincoln Street
11	PITTSFIELD	2	7	2	PITTSFIELD	191	East Street	Elm Street	High Street
12	PITTSFIELD	1	6	5	No	152	First Street	Fenn Street	Eagle Street

Top 5% Bicycle Crash Clusters, 2011-2020								
Crash Count	City/Town	Fatal & Serious Injury Crashes	Non-Serious & Possible Injury Crashes	Non-Injury Crashes	Top 5% within Town	EPDO	Street 1	Street 2
7	WILLIAMSTOWN	0	6	1	WILLIAMSTOWN	127	Main Street	Water Street
4	PITTSFIELD	0	4	0	PITTSFIELD	84	Elm Street	Holmes Road
4	PITTSFIELD	1	3	0	PITTSFIELD	84	East Street	Willis Street

## ROAD SAFETY AUDITS (RSAs)

Crash clusters that are targeted for safety improvements under HSIP must first undergo a Road Safety Audit of current conditions. The RSA is intended to bring all stakeholders from local, regional, state, and federal authorities together on location to review the site, document deficiencies, and begin to develop countermeasures for a safety implementation project. Background materials are gathered and shared at a pre-audit meeting, which include traffic volumes, crash data, speed data, and other safety concerns related to the site visit. The audit team will then meet in the field to visually inspect the site and confirm the safety issues and the data previously gathered (see **Figure 4b-2**). A post-audit meeting will then be held to discuss findings and propose potential countermeasures. An RSA report is prepared and supplied to stakeholders. The document will be used as a basis for recommending future HSIP funding for implementing an improvement project in the Transportation Improvement Plan (TIP).

locations will continue to be prioritized by means such as the Comprehensive Safety Action Plan and other local efforts.

### UPWP ACTIVITIES:

- ◆ Coordinate with Berkshire County towns where HSIP-eligible crash clusters are located to program further study and implement countermeasures
- ◆ Coordinate with MassDOT on RSAs (Road Safety Audits) to be conducted at top crash locations in the region
- ◆ Prioritize future year HSIP projects
- ◆ Identification of other potential safety improvements at crash clusters
- ◆ Explore modernization and updates to a regional crash database



### KEY ACTION

Conduct Roadway Safety Audits at the top EPDO intersections in Berkshire County with local, state, and federal partners

Road Safety Audits are recommended to be conducted at top crash clusters identified in **Figure 4b-1**, with priority given to the intersections with the highest EPDO score and working down. The intersections in the figure are listed in that descending order.

It is important to note that this listing does not include all Berkshire locations where a fatality or serious injury has taken place. These above locations have been shown to be perennial safety risks by accumulating a high EPDO score as well as contributing to at least one fatal or serious injury. Additional

**Figure 4b-2: Road Safety Audit conducted in Medford, MA (via Medford Patch)**



## 4c. Standardize Crash Data

### BACKGROUND

The data that inform transportation decision making are gathered in many ways. It is important that all regions of the Commonwealth are represented equitably across the available data and statistics.

Geocoding is the process of translating location data, such as a street address, crossroads, or milepoint onto a visual map, usually by means of latitude and longitude. Crash location data (i.e. nearest address or cross street) are reported by responding authorities, usually local or state police departments. If sufficient location data is provided by responders when reporting the crash, the location of the crash can be automatically geocoded by the MassDOT Office of Traffic Safety. When auto-geocoding is not possible, human technicians will work to map the location.

A current disparity across the Commonwealth is the rate of geocoding of crashes. Of all crashes reported between 2017 and 2022, 87% are geocoded into the MassDOT database. Given this benchmark, the western end of Massachusetts, and Berkshire County in particular, fall well below the average. These rates are illustrated in **Map 4c-1**. The darkest blue shade represents an auto-geocoding rate of greater than 80%, while the tan shade represents an auto-geocoding rate below 20%.

Berkshire County will set the goal of coming up to parity with statewide geocoding performance over the next four years. Underreported crashes serve to mask the true needs of Berkshire County in terms of road safety. Assisting local authorities and emphasizing the importance of reporting and geocoding all crashes will help to ensure that Western Massachusetts remains on parity with the Commonwealth at large. Conducting outreach to towns that show a low rate of crash reporting and coordinating between

them and the MassDOT Office of Traffic Safety and Registry of Motor Vehicles (RMV) will be an ongoing and important process.

The Berkshire region encourages further outreach and dialogue between OTS, RMV, and local jurisdictions regarding enhanced education and enforcement strategies, and data collection procedures, that police forces may be able to adopt.

### UPWP Activities:

- ◆ Analyze the rates of crash reporting and geocoding for Berkshire municipalities
- ◆ Conduct ongoing outreach with the MassDOT Office of Traffic Safety (OTS) and RMV
- ◆ Conduct ongoing outreach to town police and first response units in partnership with OTS

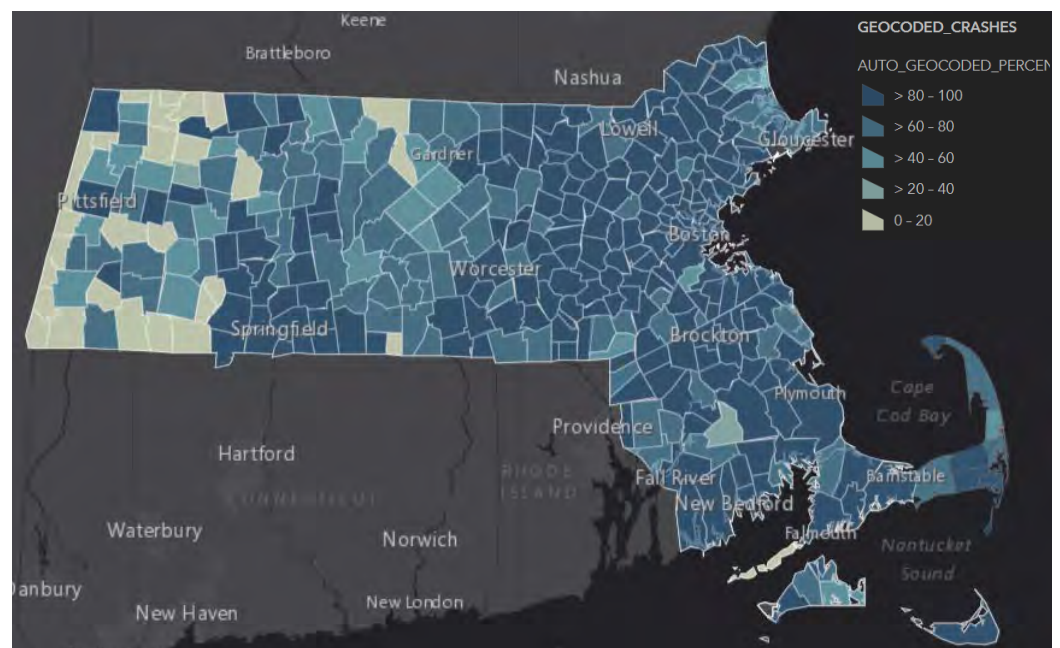
### ✓ KEY ACTION

Conduct outreach and coordination with first response services in towns that are currently below state crash geocoding rate of 87%.

### 🎯 TARGET

Bring the crash geocoding rate of all towns in Berkshire County to a level of parity with the Commonwealth at large (87%) by 2028.

**Map 4c-1: State Geocoding Performance by Municipality**





R20  
T  
P24



# Goal 5



## Promote Active Transportation

Active transportation is travel under one's own power; generally on foot or on a vehicle that weighs less than the occupant. For the purposes of this plan, the terms "active transportation," "micro-mobility," and "personal mobility devices" are interchangeable.

Active transportation is an important component of the sustainability of any transportation network. Infrastructure for active transportation is generally less costly than for heavy traffic. Transportation via active means produces less greenhouse gas emission than heavy modes. Finally, active transportation can build a greater degree of community and social cohesion and investment when implemented as a wide-reaching network.

### Objectives:

- a. Expand Bicycle infrastructure
  - b. Expand Pedestrian infrastructure
  - c. Expand Shared micromobility
-

## 5a. Expand Bicycle Infrastructure

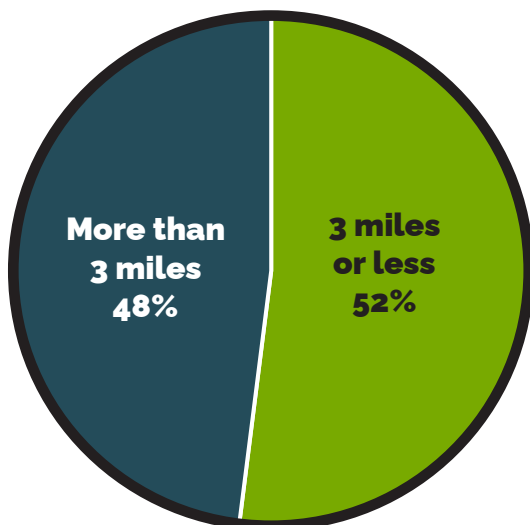
### BACKGROUND

Cycling in the Berkshires takes place in many forms: for recreation, exercise, transportation, survival. The bicycle as a machine is a low-cost, lightweight, efficient means of travel. Promoting and expanding cycling in the Berkshires is an important piece in the effort to create a more connected, resilient, healthier and sustainable community.

This section will discuss capital and programmatic strategies to continue the progress of expanding bicycle infrastructure in Berkshire County. As the Commonwealth continues its adoption of Complete Streets policies and the national conversation pursues zero roadway deaths, environmental justice, and tackling the climate crisis, bicycling must not be simply regarded as an “alternative” means of transportation. It must be holistically integrated into the transportation decisions made at the local and regional levels.

According to the latest National Household Travel Survey conducted in 2017, 52% of trips made in Massachusetts were a distance of 3 miles or less (see **Figure 5a-1**). According to the MassDOT Bicycle Transportation Plan, 80% of those trips were made by driving. These trips represent the low-hanging fruit for encouraging shifts to other modes, including cycling, walking, transit, and rideshare. On average, an able-bodied bicycle rider can make a three-mile trip in about fifteen minutes. The increasing market share of electric-assist

**Figure 5a-1: MA household trips by distance, 2017**



bicycles (e-bikes) further lowers the barrier to entry. Pedal-assist e-bikes allow users with a greater spectrum of abilities and fitness to ride over more rolling terrain and for greater distances than previously possible.

Many dense and historic cores of Berkshire municipalities have a high potential for everyday cycling trips. This is according to a network screening statistical analysis conducted by MassDOT in 2022 which rated bicycling potential for every road in the Commonwealth. **Map 5a-2** illustrates road ratings for Berkshire County. Yellow-colored roads represent medium potential for everyday cycling (roads scoring in the top 60%-11%), and green represents high potential (roads scoring in the top 10%). Grey roads are considered to have low potential. More information for specific streets can be found on the MassDOT GeoDOT website.

A road's potential for cycling trips is scored from a formula that takes several factors into consideration. The most recent 2022 update to the scoring methodology uses StreetLight<sup>1</sup> data to analyze existing bike volumes on roads and all biking trips that are under six miles. Roads that are within a 10-minute ride from a transit stop receive a scoring boost as well. Finally, trip demographics from a social equity lens are included in the formula. This takes into account trip-chaining that may take place outside of a home or workplace, as well as the general demographics of origin and destination neighborhoods of cyclists.

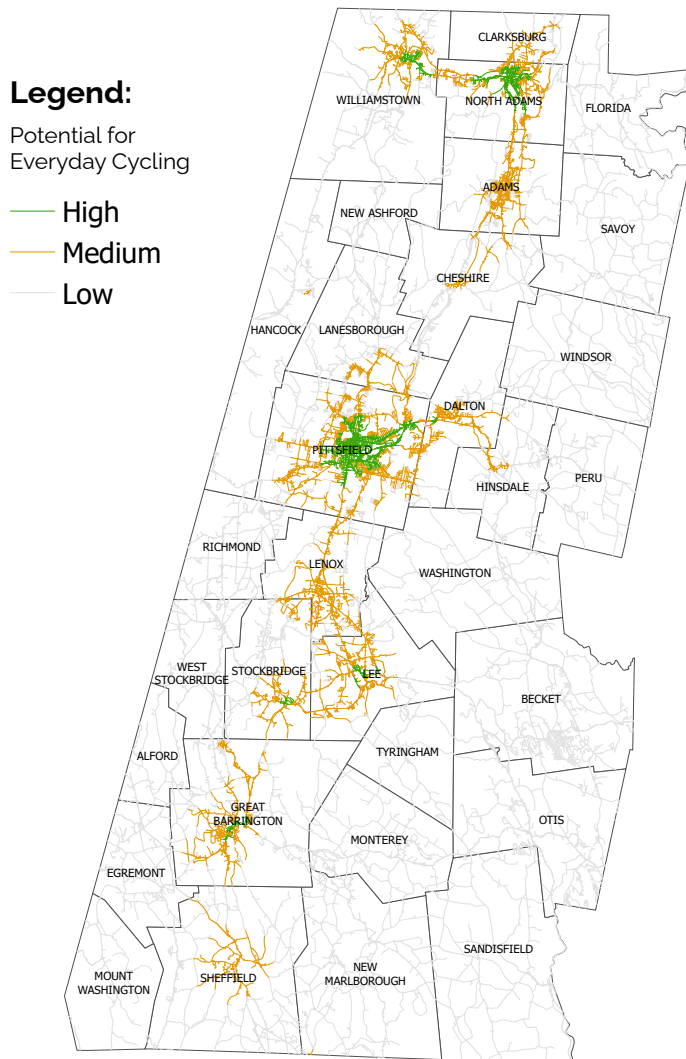
While many trips in the Berkshires will always need to be made by car, there is real potential for reducing the number of those trips, the distance of those trips, or the mode of those trips via a concerted planning effort. It is not an all-or-nothing scenario. Two-car households that are able to transition to owning one car and an e-bike, for example, represent real wins. Keeping in mind the proportion of household vehicle trips that were recorded at 3 miles or less, and the proportion of county households that reside on medium and high potential streets, these represent a sensible target audience for increasing the number of trips made by bicycle in Berkshire County.

<sup>1</sup> StreetLight is a data aggregation company that supplies anonymized travel data from mobile device location data, such as cell phones and connected-vehicle equipment.

## REGIONAL BICYCLE INFRASTRUCTURE: THE BERKSHIRE BIKE PATH

The Berkshire Bike Path is the county's long-term vision for a regional bicycling and hiking route. The path route runs in a generally north-south direction through the center of the county, from the border of Connecticut in the south to the border of Vermont in the north. As currently envisioned, the Berkshire Bike Path consists of a mix of different infrastructure types, including on-road bike lanes and off-road multi-use paths. The Berkshire Bike Path would provide at least one high-comfort connection route between the high-potential areas for cycling. This in turn would create a "trunk" route with the branches into neighborhoods and other points of interest on the high- and medium-potential roads. Many low-scoring potential roads also make for attractive long-distance or recreational rides even though they may not connect many points of interest.

**Map 5a-2: Potential for Everyday Cycling Trips**



### ***Ashuwillticook Rail Trail***

The best-known feature of the Berkshire Bike Path is the Ashuwillticook Rail Trail, a multi-use path that runs along a portion of the former right-of-way for the Pittsfield & North Adams Railroad. The current paved length of the Ashuwillticook is 14.2 miles, and passes within the city of Pittsfield and the towns of Lanesborough, Cheshire and Adams. The trail is continuing to expand with several capital projects in design, conceptual, or early planning stages:

- ◆ Pittsfield southern extension - Crane Ave to Merrill Road (MassDOT project 609289)
- ◆ Adams northern extension - Lime Street to Hodges Cross Road (MassDOT project 606890)
- ◆ North Adams northern extension - Hodges Cross Road to Downtown (Project TBD)

Each of the above projects is intended to extend the shared-use-path character of the Ashuwillticook further through Berkshire County.

Usage of the Ashuwillticook has been tracked since July 2020 with two automated counters at popular southern and northern gateways to the trail. One counter is situated at the Berkshire Mall Road trailhead in Lanesborough and the other is at the Park Street entrance to the trail in downtown Adams. According to the statistics transmitted by the counters, there have been 173,411 users entering the trail at the Lanesborough trailhead and 148,393 users entering the trail at the Adams trailhead. In total, over 320,000 visitors have been recorded entering the rail trail since July 2020. It is important to note that these statistics do not consider users who entered the trail at other locations. For the most recent full calendar year of data, 2022, the most popular month at the Lanesborough trailhead was July, with nearly 11,000 visitors recorded entering. June 2022 was more popular with Adams, where just over 11,000 visitors were recorded. The wintry month of December 2022 recorded nearly 750 visitors in Lanesborough, and nearly 1,100 in Adams.

### ***Williamstown Mohawk Bike-Hike Trail***

This segment of shared-use path in the town of Williamstown was completed in the fall of 2022. The trail is approximately 2.3 miles long and runs along the outer edge of Williamstown's village center. The trail terminates on the southeastern

end at the Spruces park on Route 2, near the town line with North Adams. At the northwestern end, the trail terminates on Syndicate Road, just off Route 7. The other major entry point to the trail is on Cole Ave.

### **Other Local Segments**

While the Berkshire Bike Path is not yet a complete bicycle network, there are other segments that have been implemented in Berkshire towns beyond those on the Ashuwillticook and Mohawk. As more segments of the Berkshire Bike Path are realized, these will be incorporated into the into the final alignment, either as-is, or further improved. Additional existing segments of the Berkshire Bike Path that will be joined together in the future include:

- ◆ Lee, Stockbridge: Route 102 bike lanes (4.5 miles)
- ◆ Pittsfield: Elm Street, East Street, North Street, Tyler Street (under construction) bike lanes (approx. 3.75 miles with short gaps)
- ◆ Great Barrington: Route 7 sidepath and Main Street bike lanes (approx. 1 mile total)
- ◆ Lenox: Walker Street bike lanes (1.5 miles)
- ◆ North Adams, Williamstown: Route 2 bike lanes (approx. 1.5 miles)

### **Completing the Berkshire Bike Path**

A full north-south route through Berkshire County with a high level of comfort for most pedestrians and cyclists is the ultimate goal of the Berkshire Bike Path initiative. There are several projects that have received some level of study in recent history that would do well to continue forward on project development and stakeholder outreach:

**Lee Bikeway:** The current extent of the Lee Bikeway runs from the intersection of Route 102 and Tyringham Road to West Park Street in downtown Lee. A second phase of implementation should work to continue the bikeway northward to the Lenox town line. This would likely involve a mix of exclusive pathway and shared streets. Any shared facilities should take place only on low-speed low-volume streets with appropriate traffic calming measures and wayfinding.

**Lenox Bike Path:** From the town line with Lee, the bikeway would continue north into Lenox, through the village of Lenox Dale. The town conducted a

feasibility and alternatives study in 2019, which provided several route alternatives. A full build-out would again involve a mix of dedicated path and shared low-volume streets. The entire Lenox bike path effort would take place over several phases, with logical termini at cross streets that would allow for full access to the completed phases. The preferred alternative would take the path along a former trolley line rail bed to New Lenox Road, from which the trail would continue north likely as a rail-with-trail segment into Pittsfield.

**Pittsfield Bike Path:** Connecting from Lenox into Pittsfield will take place in the area bounded by East New Lenox Road to the east and South Street (US-7) to the west. The most feasible corridor to provide a separated cycling facility would be in the vicinity of the city wastewater treatment plant and the Housatonic railroad line. The combination of city-owned land and a rail-with-trail corridor along a portion of the Housatonic line would present the most straightforward alternative. A utility right-of-way that extends from the rail line to Fred Garner River Park in Pittsfield could allow the trail to come to a logical terminus. Connecting through Pittsfield to the Ashuwillticook Rail Trail can be accomplished through several alternatives, including on-street via low volume side streets and high-quality bike lanes, or an off-road trail on utility rights-of-way if an agreement can be negotiated.

**Proposed Sheffield-Gt. Barrington Multi-use Path:** The southernmost segment of the Berkshire Bike Path would connect the center of Great Barrington with the center of Sheffield, and beyond to the Connecticut border via the Western New England Greenway on-road route (described below). A combination of sidepath and rail-with-trail alignments would create a separated pathway for cyclists and pedestrians through the town of Sheffield. Further feasibility studies are recommended to define pathway routes and cost estimates.

### **Western New England Greenway**

Traversing three states from the Long Island Sound to the Canadian border, the Western New England Greenway (WNEG) is a federally-designated U.S. Bicycle Route, USBR 7. As the name implies, the WNEG closely parallels US Route 7, sometimes sharing the same right-of-way, but often utilizing lesser-traveled back roads as well as off-road routes when available. In Massachusetts, the Berkshire Bike Path serves as the through-route

## MIDDLE RIVER PARK - WORCESTER, MA

The Blackstone Gateway Park and Middle River Park contain 1,100 linear feet of at-grade pathway and 1,400 linear feet of boardwalk and bridges to comprise roughly a half-mile of pathway along the Middle River in Worcester, MA. The project is constructed extensively within wetland resource areas and bordering areas subject to flooding. A boardwalk that is approximately 10 feet above the surface of wetlands, supported by helical steel piers, provides unique views of the Middle River area and is a key gateway to the Blackstone River Bikeway. The Bikeway is a 3.5-mile multi-use trail between the town of Millbury and City of Worcester, built in the early 2000s. This project could provide a good analogue for the “last mile” of the Ashuwillticook Rail Trail that links Hodges Cross Road and Downtown North Adams, which will need to traverse similar wetland resource areas.

**Photo 1** (below): Bridge and boardwalk construction  
**Photo 2** (left): Portion of boardwalk in Middle River Park  
*Photo sources: (1) Google Earth, (2) Explore Central Mass*



for the WNEG. Efforts are currently underway to procure and mount guide signs for the WNEG route. These signs include an AASHTO-compliant USBR-7 shield and directional arrows to help riders easily navigate the route. The signs also help raise awareness of the trail and indicate to travelers that there is an increased chance of encountering bicycles along the route. BRPC staff will be working with MassDOT to mount guide signs at appropriate points within the state highway ROW. On segments of the WNEG within town-owned ROWs, BRPC will be assisting with forming agreements with local highway departments to get signs mounted, via a memorandum of understanding (MOU). An example of a mounted sign assembly can be seen in **Figure 5a-3**.

**Figure 5a-3: WNEG Guide Sign Assembly**



### KEY ACTION

Coordinate the installation of WNEG navigational signs with state and local entities.

## BICYCLE SAFETY AND EDUCATION

Beginning in August 2021, stakeholders in Berkshire County have been promoting best practices for cyclists and motorists sharing the road. Outreach included a printed brochure, with guidelines for safe cycling practices on the front and a breakdown of different cycling infrastructure and regulations on the reverse.

The Berkshire Bike Path Council has worked with the statewide advocacy coalition Massbike on their Lights Bridgade campaign. Volunteers distribute battery-powered front and rear bike lights for cyclists needing them for nighttime travel. High-visibility jackets and vests have also been donated. Further expansion of Berkshire County's cycling infrastructure should include a sustained effort of education and outreach about safe and effective riding, both on the road and off. This can be accomplished through advocacy groups like Berkshire Bike Path Council and Massbike, driver's education curriculum and state entities like MassDOT and Safe Routes to School.

## MASSDOT COMPLETE STREETS PROGRAM

Since 2014, all municipalities in Massachusetts have been eligible to participate in the Complete Streets funding program through MassDOT. The goal of the Complete Streets program is to provide additional resources to communities who demonstrate interest and commitment to creating safer routes for walking, cycling, driving and taking transit.

The Complete Streets process has three phases, or Tiers: 1, 2, and 3. Becoming a Tier 1 community involves officially adopting a Complete Streets ordinance through the local legislative body. This opens the door for Tier 2 funding. At Tier 2, communities will craft a project list and ranking. This list includes, at minimum, fifteen capital improvement projects that accomplish one or more Complete Streets goals. A community may apply for up to \$38,000 of technical assistance funding at 100% reimbursement. This funding may be used to retain consultation to assist with crafting the Tier 2 project list. When the Tier 2 project list is submitted and approved by MassDOT, the community enters Tier 3, which provides up to \$500,000 per four-year period to implement proposed Tier 2



## THE EMPIRE STATE TRAIL

In 2020, the state of New York officially opened the Empire State Trail (EST): a 750-mile cycling and hiking route that runs north-south between New York City and Plattsburgh, and east-west between Albany and Buffalo. The EST segments between New York City, Albany, and Buffalo are majority off-road multi-use paths. A major effort to link the cities of Albany and Hudson with a bicycling/hiking route was completed as part of the EST project. The Albany-Hudson Electric Trail utilizes a former trolley line that was adapted to an electric transmission corridor. This 37-mile route is entirely new construction and includes several stream crossings and sidepaths (see **Photo 1**). South of Hudson, a new gateway from the Rip van Winkle Bridge was constructed along NY-23, which included a protected two-way cycle path. The cycle path was created out of an extended shoulder formed from the NY-23 road bed, and a guard rail was mounted between the travel lane and extended shoulder to create full separation. See **Photo 2**.

**Photo 1** (below): EST sidepath in Schodak, NY

**Photo 2** (left): EST protected cycle track in Hudson, NY

*Photo sources: Google Street View*



projects. Funding from this Tier is 100% reimbursable for construction costs, with close parallels to the Chapter 90 program. Project design funding must be provided through other means.

At the time of writing, 20 of the 32 municipalities in Berkshire County have adopted a Complete Streets policy in their community. BRPC has provided Tier 2 technical assistance to 15 communities. Nearly \$4.7 million in funding for Complete Streets capital projects has been awarded to Berkshire municipalities during the life of the program. Communities in Berkshire County are encouraged to continue pursuing funding for projects on their Tier 2 listings, and to update their Tier 2 list as necessary, as projects are completed and new priorities emerge. Examples of completed municipal projects include sidewalk replacements and extensions, crosswalk improvements, new bike racks and bike repair stations, shoulder widening and new bike lanes.

In addition to town projects, regional connections on arterials such as Routes 2, 7, 8, and 9 should be focus areas for complete streets efforts on a state level. Experienced cyclists and those with no alternative options will use shoulder space on these roads, but others may not feel welcomed on this kind of infrastructure.

As segments of these regional roads are due for rehabilitation, a design which includes a separated sidepath should be considered as a preferred alternative. Design treatments like those implemented by NYSDOT on the Empire State Trail (see left) can take advantage of the wider rights-of-way that state routes often utilize. Existing pavement width may also be able to be utilized if shoulder and lane widths are reduced in the redesign process. One example would be Route 7 as it continues south out of Great Barrington and through Sheffield. On some segments, shoulders may be 10 or more feet wide on either side, or travel lanes are 12 more feet wide. Such a segment could be re-imagined as a narrowed road bed with 11-foot travel lanes, 4-foot shoulders, and a separated 10-foot sidepath.

The following list of recommendations represents an ambitious roadmap of bicycle projects over the 20-year planning horizon. The projects have been listed in a descending order in terms of priority and feasibility as viewed from the time of writing.

## RECOMMENDED PROJECTS:

- ◆ Ashuwillticook Rail Trail extension: Hodges Cross Rd to Western Gateway Heritage State Park. Estimated cost: \$10,000,000
- ◆ North Adams: Adventure Trail from Williamstown town line to Western Gateway Heritage State Park. Estimated cost: \$15,000,000
- ◆ Great Barrington-Sheffield multi-use path. Estimated cost: \$16,000,000
- ◆ Williamstown Bike/Hike Path northern extension: Syndicate Road to VT state line. Estimated cost: \$3,200,000
- ◆ Lenox Bikeway Phase 1: Lee town line to Willow Creek Road. Estimated cost: \$3,500,000
- ◆ Lenox Bikeway Phase 2: Willow Creek Road to New Lenox road. Estimated cost: \$7,000,000
- ◆ Lenox/Pittsfield Connector Bikeway: New Lenox Road to Holmes Road. Estimated cost: \$4,000,000
- ◆ Lee Bikeway Phase 2: Downtown Lee to Lenox town line. Estimated cost: \$5,000,000

## UPWP ACTIVITIES:

- ◆ Continue to provide support to communities on Berkshire Bike Path implementation.
- ◆ Continue to provide technical support to Berkshire Bike Path Council (BBPC) and Bike North Berkshires including the provision of GIS-related services.
- ◆ Identify gaps in bicycle networks and develop a quality of service/bikability index
- ◆ Coordinate with MassDOT on U.S. Bike Route 7 signage installation
- ◆ Continue identifying priority areas for on-road cycling improvements and pedestrian enhancements, including best practices based on land use context
- ◆ Participate in Bay State Bike Week and Western New England Greenway initiatives
- ◆ Continue to support communities on general Complete Streets planning and implementation, including sidewalk inventories and walkability/bikability assessments
- ◆ Coordinate with MassDOT and municipalities on implementation of state Pedestrian and Bike Plans
- ◆ Maintain and report on an inventory of bicycle facilities in the region

## 5b. Expand Pedestrian Infrastructure

### BACKGROUND

The act of walking is the most fundamental form of transportation for the human race. It is said that everyone starts and ends their trip as a pedestrian, regardless of what travel mode is used in between. For thousands of years, all roads were pedestrian infrastructure, and were shared by carts, chariots and animals alike. Along the time frame of recorded civilization (approximately 12,000 years), the current system of rigorously separating the modes of transportation within the right-of-way is an aberration that has only occurred in the past 100 years, or 0.0083%, of recorded history.

While walking long distances may not be a practical option for everyday travel, trips to visit neighbors, local parks, shops, schools, and offices can be practically accomplished by foot in Berkshire town and city centers, if barriers are removed. Major sidewalk expansion can often be costly and time-consuming, but adding enhancements and upgrades to existing sidewalk and crosswalk infrastructure also provides a large benefit to communities.

### ENHANCE UNCONTROLLED CROSSWALKS

A painted crosswalk that is not accompanied by a traffic signal is considered uncontrolled. Perhaps the most dangerous types of crosswalks are "multiple-threat" crossings, which are defined as uncontrolled crosswalks spanning three or more lanes of traffic with no central median. The "multiple threat" originates from the person crossing needing to coordinate multiple lanes at once. Safety threats mainly come from blind spots created by stopped vehicles and driver inattention and confusion. It can be unclear for drivers what the best or lawful practice is for yielding at a multiple-threat crossing. A driver in the

rightmost lane may decide to stop for a pedestrian preparing to cross, while a driver in the outer travel lane may not. The process repeats itself for the two lanes traveling in the opposite direction. The Federal Highway Administration (FHWA) has known since 2005<sup>1</sup> that marked crosswalks on multilane roads with no other enhancements are associated with higher pedestrian crash rates than simply unmarked crossings. However, these types of crossings continue to be built and maintained. An example of a multiple-threat crossing can be seen in **Figure 6b-1**. Crossings such as the one pictured should be prioritized for enhancement as soon as possible. Enhancing uncontrolled, multiple-threat crosswalks can take many forms:

- ◆ Lane reduction along the road to one travel lane in each direction (excluding bike or transit lanes)
- ◆ Installing a central median to provide a refuge and stopping point for pedestrians
- ◆ Installation of rectangular rapid-flashing beacons (RRFBs) or high-intensity activated walk (HAWK) signals at the crossing site
- ◆ Removal and relocation of crosswalk to a different segment of the road
- ◆ Surface treatment to enhance the visibility of the crossing (such as bricks or solid paint)
- ◆ Installation of a speed table to raise the crosswalk and slow vehicle traffic
- ◆ Installation of bump-outs or choke points to narrow the traveled way around the crosswalk

**Figure 6b-1: Multiple-threat uncontrolled crossing on South Street in Pittsfield**



1 <https://www.fhwa.dot.gov/publications/research/safety/04100/04100.pdf>





## KEY ACTION

Analyze all marked, uncontrolled crosswalks in the Berkshire County region for deficiencies and recommend a standard set of enhancements.

The above strategies can be implemented in different combinations, based on the conditions of the location in question, via engineering study and judgment. While priority should be given to multiple-threat crossings, all uncontrolled crossings of two or more lanes in Berkshire County should be reviewed for ways to enhance their visibility and safety.

Two-lane crosswalks will benefit from many of the same types of enhancements, especially on roadways with higher volumes of vehicles. One such example is First Street in Pittsfield. A painted crosswalk connects a major municipal parking lot with the Pittsfield Common, the central urban park in downtown Pittsfield (see **Figure 6b-2**). Yielding compliance is low and speeds are high along this functionally deficient corridor given the surrounding context, and despite the presence of RRFB signals. The site would be a prime candidate for a central median island, as there is currently a central striped buffer space approximately nine feet

**Figure 6b-2: Uncontrolled crossing in Pittsfield**



**Figure 6b-3: Uncontrolled crossing with central island, Westfield, MA**



wide along that segment. **Figure 6b-3** provides an example of such a recently installed crosswalk in Westfield, MA.

## EXISTING SIDEWALK NETWORKS, GAPS, WALKSHEDS, AND MAINTENANCE

According to MassDOT records, there are approximately 276 miles of sidewalk in Berkshire County as of 2022. This number has grown slightly with road projects completed in 2022. Further study of this inventory could uncover gaps between segments that can be filled, or nearby connections to local points of interest that are within reach. Using GIS software, “walksheds” of existing sidewalk infrastructure can also be analyzed. A walkshed is the geographic area that can be reached by walking for a certain time or distance, for instance, a 10-minute walk or a quarter-mile walk. Studying the land use of parcels currently served by sidewalks can show the potential for everyday walking trips in the Berkshires, and help visualize impact from expanding the network or creating new connections.

Just as crucial or even more so is ensuring that existing sidewalks are in a state of good repair, and meet the expectations of those who are able to make trips by walking or rolling. Barriers presented by sidewalks in poor condition can cause safety concerns like tripping hazards, or forcing those with limited mobility to use the road or find alternate routes for getting to their destinations.

Sidewalk dead-ends should be addressed wherever possible. One prominent example is Government Drive in Pittsfield. A study is currently underway to determine the best ways to enhance a degraded set of stairs and a dead-end sidewalk that are found on the western end of Government Drive where it transitions to West Street. Pedestrians can often be seen walking on Government Drive to reach destinations on Columbus Ave or other areas downtown. If one is using a mobility device like a power chair or a stroller for a child, it can be a more direct route than the alternative of following West Street under the railroad tracks and looping back up Center Street.

### All-season Maintenance

While fewer residents may be walking or rolling on sidewalks in the coldest winter months, it is imperative that access be available to these facilities on a year-round basis. Incentives and accountability for abutting property owners to clear sidewalks of snow is an important priority for municipal governments. Towns and cities should also explore investment in snow removal equipment for other trails and sidewalks that are publicly owned.

### RECOMMENDED PROJECTS:

- ◆ Route 7, Pittsfield: Approx. 3,200 LF of sidewalk to close the gap between MP 28.2 and MP 28.8 (Dan Fox Drive). Estimated cost: \$1,200,000
- ◆ Route 7/20, Lenox: Approx. 950 LF of sidewalk to connect isolated bus stops south of the intersection with New Lenox Road, including crosswalk upgrades at existing signal. Estimated cost: \$2,200,00
- ◆ Crane Avenue, Pittsfield: Approx. 550 LF of sidewalk and crosswalks in the vicinity of 898 Crane Ave, the Allendale Shopping Center, and the Ashuwillticook Rail Trail trailhead. Estimated cost: \$213,000
- ◆ East Street, Pittsfield: Construct a raised crossing at the existing crosswalk immediately east of Park Square. Estimated cost: \$100,000
- ◆ West Street/Government Drive, Pittsfield: Sidewalk extension or other pedestrian accommodations on Government Drive and College Way. Estimated cost: \$3,000,000

### UPWP ACTIVITIES:

- ◆ Conduct sidewalk inventory and gap analysis
- ◆ Conduct walkshed analysis in Berkshire County
- ◆ Conduct an inventory of crosswalks in Berkshire County and categorize their current conditions and other characteristics
- ◆ Recommend priority crossings within the Urbanized Area and Urban Clusters in Berkshire County for enhancement
- ◆ Study how to utilize existing Roadsoft software to build the crosswalk inventory
- ◆ Collaborate with local Departments of Public Works and MassDOT to promulgate best practices for crosswalk installation in a standard way around the county

## 5c. Expand Shared Micromobility

### BIKE SHARE

Bike share is a transportation mode that has been growing in many urban areas over the past decade. The basic principle of bike share is to provide a fleet of shared bicycles for local trips around a community. The bicycles are owned by a private service provider or municipality. They can either be locked at fixed stations (or "docks") that are placed around a community, or the bikes may be free-floating. There are also hybrid systems where docks are used, but bikes may be locked in other places inside a given service area.

The two nearest bike share systems to Berkshire County are Valley Bikes in the Springfield-Northampton metropolitan area, and CDPHP Cycles in the Albany-Schenectady-Troy-Saratoga metropolitan area. These two systems each demonstrate the Docked and Hybrid approach, respectively.

- ◆ **Docked Bike Share** - The *Valley Bike Share* in the Northampton metro area uses the docked bike share system. All bicycles are locked to a docking system that is accessed by a kiosk. Users may also use a smartphone app or key card to unlock a bike. A user will request to unlock a bike, and remove the bike they choose from the dock space. At the end of the ride, the user returns the bike to any dock in the system that has a free space available. It does not need to be returned to the same dock where the ride began.
- ◆ **Hybrid Bike Share** - The *CDPHP Cycles* system in the New York State Capital Region utilizes a hybrid bike share system. The CDPHP system uses docks that are placed near areas of interest in the region. Rather than using a kiosk at the dock, users pay for and unlock a bike by using an app on their smartphone. The bikes can then be ridden and locked to any secure location within the bike share service area, or another dock. Bikes locked in locations away from a dock can also be reserved and ridden.

Most bike share systems have a fee structure that charges per hour or per minute, rather than per mile. Systems will incentivize short, local trips by charging an up-front fee for 30 or 60 minutes

of unlimited riding. If a bicycle is not returned to a dock or otherwise locked before the time window is over, an additional per-minute fee is often assessed. If a longer trip is desired, short trips may be “chained” between docks by dropping one bike off, and checking out another at the same dock and paying for a new time window.

The ideal use case for bike share is for “last mile” trips that may connect a regional transportation center (like a train station or bus terminal) with a local attraction or commercial center, like a museum, park, shopping center, or downtown district. Round-trips to grocery stores, restaurants, or other services are also possible by bike share when the service is strategically placed and the local land use and infrastructure are conducive to quick, pleasant trips by bicycle. Bike share systems are not targeted toward riders who want to use a bicycle for one or more days at a time, or travel long distances.

In 2020 and 2021, a study was conducted by the city of Pittsfield to determine feasibility and recommendations for a bike share system in the city and Berkshire County at large. The report came away with the following recommendations:

- ◆ **Bike share system:** Docked
- ◆ **Bike types:** Mix of electric and non-electric
- ◆ **Business model:** Private ownership/operation
- ◆ **Phase 1 host cities:** Pittsfield, Adams, North Adams, Williamstown, Lenox, Great Barrington
- ◆ **Total Phase 1 Bikes available:** 301
- ◆ **Total Phase 1 Dock Stations:** 54

Berkshire County Phase 1 municipalities should begin exploring funding structures or pilot programs for a bike share system in conjunction with local employers or points of interest.

## 🎯 TARGET

Implement or pilot shared micromobility options (i.e. bike share or e-scooter share) in the Phase 1 host cities identified.

## SCOOTER RENTAL

Beginning in 2022, and continuing in 2023, the Bird Rides company deployed electric scooters for rental in the city of Pittsfield, available from late April through late November. The scooters are able to be reserved and unlocked through a companion smartphone app. Rentals are assessed with a fee per minute of use, along with a fixed price of \$1 to unlock a scooter and begin a ride. The scooters are powered by an internal battery and equipped with a headlight, taillight, bell, and front and rear brakes. The scooter’s acceleration is controlled by a throttle installed on the handlebars, and the assisted speed of the scooters is limited to 15mph.

**Figure 6c-1: Bird rental scooters in Pittsfield**



The scooters are GPS monitored and only able to operate within a designated service area. Within this larger zone are “slow zones” where the scooter’s electric motor disengages until the user is outside of the zone. Designated slow zones within Pittsfield consist of city-owned parcels, which cover all parks, parking lots, and school grounds. The overall allowable zone of scooter operation consists of the more central, interconnected neighborhoods within the city. Areas of the city that require travel on major roads or that generally lacked sidewalks were not included within the operation zone.

Expanding safe bicycling and walking infrastructure will benefit scooter riders as well. This use case should be considered in Complete Streets projects.



R20  
T  
P24

# Goal 6



## Adapt for Sustainability and Resilience

A sustainable transportation system is more than being “green.” It is ensuring that the needs of the future are accounted for in planning happening today. It is ensuring that our air, water and soil are not compromised to the detriment of the next generation, which is a stark reality for many longtime Berkshire County residents. Reducing greenhouse gas emission is one important component of planning for sustainability. Land use and transportation are inextricably linked, and ensuring that land is developed, conserved, and restored smartly will help sustain the economic, environmental, and social networks of the region.

### Objectives:

- a. Highlight the Links Between Transportation and Public Health
  - b. Promote Electrification
  - d. Mitigate Impacts on Natural Habitats
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## 6a. Highlight the Links Between Transportation and Public Health

### BACKGROUND

Major indicators of public health have continued to trend upward through the 21st century. These include rates of heart disease, obesity, and Type 2 diabetes. The causal links between these conditions is a complex web between many factors. Research has been able to draw definitive links between increased risks of developing heart disease, obesity, and Type 2 diabetes and the types of built environments where Americans live.<sup>1</sup> These higher risks of chronic disease come with a price tag of lost productivity, costs of treatment, and loss of lifespans. According to the American Heart Association, the annual costs of chronic diseases amount to the following:

- ✦ Obesity: \$173 billion in 2021
- ✦ Cardiovascular disease: \$555 billion in 2015
- ✦ Diabetes: \$327 billion in 2021

### THE BUILT ENVIRONMENT AND HEALTH OUTCOMES

Investing in infrastructure that can reduce the chances of developing these diseases, among

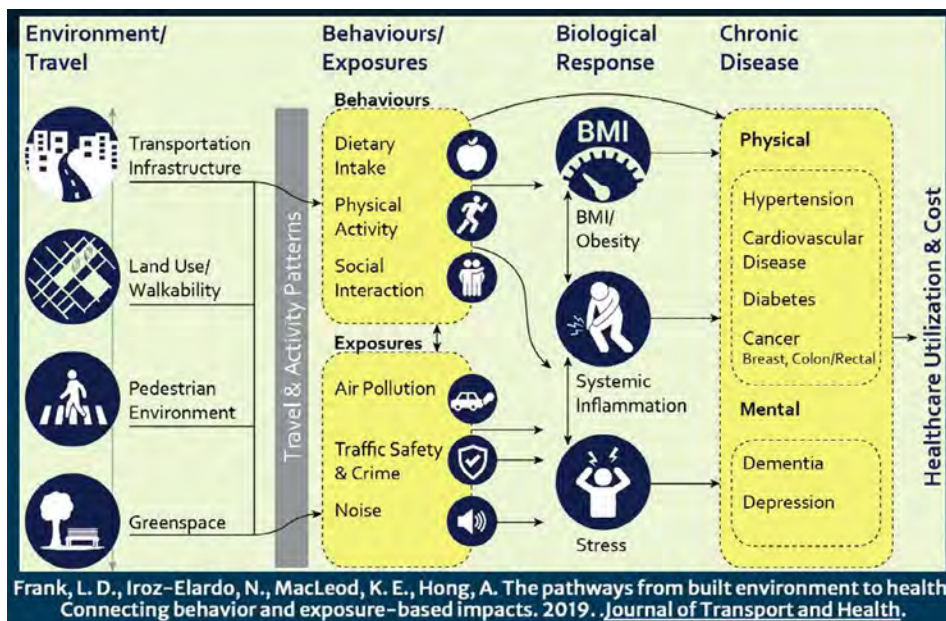
1 Frank, L.D., Adhikari, B., White, K.R., Dummer, T., Sandhu, J., Demlow, E., Hu, Y., Hong, A., Van Den Bosch, M. (2022). Chronic Disease and Where You Live: Built Environment Relationships with Physical Activity, Obesity, And Diabetes. Environmental International.

other steps, will help to lower the costs associated with their treatment and management. Building and retrofitting our environments to make walking and cycling viable options create positive health effects, not only in terms of weight and cardiovascular management, but also in stress and mental health management. How communities are designed can create a cascading effect of behaviors and choices, biological responses, and the health effects that result from those responses (whether positive or negative). See **Figure 7b-1** for an illustrated view of these effects.

Walkable urban design promotes organic social interactions and reduces stress responses from noise pollution, isolation, and the risks associated with driving. A study (Frank et al, 2022) investigating the links between chronic disease and the built environment found the following associations:

- ✦ Living in a **moderately walkable** environment suggests up to a 27% decrease in the likelihood to have diabetes
- ✦ Living in a **walkable** environment suggests up to a 39% decrease in the likelihood to have diabetes
- ✦ Living in a **moderately walkable** environment suggests 24% increase in the likelihood of having a strong sense of community
- ✦ Living in a **walkable** environment suggests 47% increase in the likelihood of having a strong sense of community

**Figure 6a-1: Connections Between the Built Environment and Public Health**



Walkability means more than simply installing sidewalks along a street. Thoughtful street design standards must be enforced, and land development patterns conducive to making trips by foot, bike, scooter, wheelchair, or transit must be promoted and codified. Walkability also does not mean closing an area off motorized trips completely. It can include traffic calming elements that make traffic move at the desired speed for a pleasant walking environment. These elements can take the form of narrowed roadways, speed humps, roundabouts, street trees,

zero-lot-line zoning codes, capping a maximum amount of off-street parking in a district, installing bicycle lanes and paths, installing transit shelters, widening sidewalks, and installing best-practice crosswalk equipment with well-calibrated signal timing.

The Complete Streets policy of MassDOT creates a starting point to implement best-practice infrastructure for road construction projects. Achieving real public health impacts through managing the built environment will require a whole-of-government approach to zoning, planning, permitting, curating, and implementing projects in every municipality.

One tool to study the current states and potential changes to public health indicators is the National Public Health Assessment Model (NPHAM)<sup>2</sup>. This tool uses publicly available demographic data at the Census block group level to estimate the current prevalence of chronic disease in a study area. Regional and local planners can utilize the tool to help predict statistical changes in chronic disease resulting from policy decisions that promote land uses and infrastructure changes that afford more walkable lifestyles. The tool is currently undergoing statistical analysis. When widely available, the tool could prove useful to estimate health impacts in Berkshire County from promoting walkable development.

## **SUBSTANCE USE RECOVERY**

Transportation to treatment and support centers for those living in recovery can sometimes prove challenging. Transportation to appointments can occur outside of transit operating hours, or locations may not be within transit service areas. Lack of vehicle ownership or a driver's license adds additional challenges. Creative collaborations between transportation service providers could open the door for more people to receive the treatment and support they need. Recovery Ride Shuttles have been proposed in areas of Pittsfield that could provide curbside service for appointments. Another proposal is to collaborate with COAs to utilize vans at times when they are not in demand. These proposals should be further considered as an element of the Coordinated Human Services Transportation Plan.

## **BERKSHIRE COUNTY HEALTH IMPROVEMENT PLAN**

The Berkshire County Health Improvement Plan (CHIP) is a collaborative effort among BRPC, Berkshire Health Systems, regional health networks,



### **KEY ACTION**

Conduct a public health analysis for the population of Berkshire County using the NPHAM tool

the City of Pittsfield. Volunteers in Medicine, and Northern Berkshire Community Coalition. One of the major goals of the plan is to increase opportunities and access to living a healthy lifestyle. Among the strategies and objectives listed are increasing access to outdoor recreation and exercise opportunities, increasing physical activity through engagement with the outdoors, increase resilience to climate change, and encouraging "neighborliness." Our transportation planning and design paradigms can play a role in helping to accomplish these goals.

Designing our built environment to exclusively convey motor vehicles is a self-fulfilling cycle that encourages more driving. This reduces chances for residents to get outdoors in their own neighborhoods, accomplish tasks by other means like by foot, bicycle, and transit, and can reduce neighbor connections when it feels unsafe or unpleasant to be on the street.

### **UPWP ACTIVITIES:**

- ◆ Conduct a special study of land use and public health indicators in Berkshire County
- ◆ Consider how to incorporate addiction recovery and prevention into CHST initiatives
- ◆ Incorporate measurable public health goals into transportation planning activities
- ◆ Collaborate with Public Health and substance recovery organizations to learn how the transportation system can better serve those seeking recovery
- ◆ Document how the infrastructure in our region can be adapted to encourage more in-person connections, outdoor recreation, exercise, and public engagement

2 <https://npham.ud4htools.com/index.html>

## 6b. Promote Electrification

### BACKGROUND

Transportation is the largest contributor to national greenhouse gas (GHG) emissions in the United States.<sup>1</sup> Internal-combustion engine (ICE) vehicles have become more efficient thanks to progressive standards such as the Corporate Average Fuel Economy (CAFE) standards, enacted by Congress in 1975. While vehicles have become much more efficient since the implementation of fuel economy standards, this would never eliminate tailpipe emissions of GHGs.

A transition to electric vehicles (EVs) would further reduce tailpipe emissions as fleets are gradually replaced. Preparing the infrastructure in Berkshire County for a transition to electric vehicle fleets is an important task in tackling the climate crisis. While transitioning vehicle fleets to electric would not, on its own, eliminate all environmental impacts from transportation, the reduction in tailpipe emissions is a benefit to ambient air quality and atmospheric GHG reductions.

Transition to and promotion of an electric transportation fleet is a massive undertaking for the region. It will require continuous collaboration and cooperation between levels of government, utility distribution firms, vehicle operators and consumers, and vehicle manufacturers and distributors.

This section will focus on recommendations for rolling out EV charging infrastructure in the Berkshire region. Unlike with gasoline fill-ups, electric charging and distribution will be more decentralized, with the vast majority of charging for EVs taking place at residential or business locations overnight or during the work day. Fast-charging infrastructure will also need to be strategically sited for longer-distance trips and in cases of emergency. As battery capacities rise and efficiencies increase, ranges for EVs are extending with every new model year.

According to the USDOT Office of Highway Policy Information (OHPI), the average number of miles driven per year per driver in the United States is

13,500 miles. This equates on average to 259 miles driven per week, or 37 miles per day. This kind of average range is easily within reach of any EV model sold in 2023. With a fast-charging network available for recharging during longer trips, range anxiety is easing among consumers. Charging EVs to achieve this kind of range is also more than likely possible with consumer-grade infrastructure installed in the home. Rolling out charging infrastructure in neighborhoods where homes may not have garages or off-street parking represents one of the more challenging hurdles in adopting widespread consumer EV adoption.

### TYPES OF ELECTRIC VEHICLES

*This information is referenced from BRPC's EV Charging Station Plan, published in March 2022.*

In general, there are three classes of electric vehicles. These include hybrid electric vehicles (HEVs), plug-in hybrid electric vehicles (PHEVs), and battery electric vehicles (BEVs). HEVs are more aligned with our traditional notion of ICE vehicles but have a particular architecture that allow them to achieve more range with less gas/diesel. PHEVs and BEVs take it up a notch by capitalizing on electrical power that is provided by an external source (i.e., charging station), stored in the vehicles' battery, and then used to drive the vehicle. PHEVs and BEVs require charging infrastructure, while HEVs do not.

#### **Hybrid Electric Vehicles (HEVs)**

HEVs primarily run on gasoline or diesel, but in addition have a small on-board electric motor and battery pack. HEVs do not require charging infrastructure, and gasoline or diesel is still the primary fuel.

#### **Plug-In Hybrid Electric Vehicles (PHEVs)**

Plug-in hybrid electric vehicles (PHEVs) go a step further than HEVs by relying on a larger on-board battery and electric motor for extended electric-only range. PHEVs still have an ICE that runs on gasoline or diesel. PHEVs are perfect for individuals with short commutes to work and also provide the assurance that unforeseen or longer trips are achievable when publicly accessible charging infrastructure cannot be located. As the name implies, PHEVs require charging infrastructure.

1 Congressional Budget Office (2022). "Emissions of Carbon Dioxide in the Transportation Sector" <https://www.cbo.gov/publication/58566>



### **Battery Electric Vehicles (BEVs)**

A BEV, referred to in this report as EV, relies solely on an electric power train consisting of an electric motor, power electronics, and a battery pack. BEVs run entirely on electricity and have an internal architecture that has far fewer parts than a traditional ICE vehicle. The battery pack for a BEV is charged by plugging the vehicle into an electric power source.<sup>10</sup>

Current EVs can travel between 60 to 270 miles on a single charge, with some Tesla models exceeding 360 miles on a single charge (Tesla Model S Long Range can achieve a 379-mile range). As this technology continues to mature, we are seeing higher ranges from a single charge. The Volvo XC40 Recharge, Hyundai Ioniq, Chevrolet Bolt, Kia Niro EV, Kia Soul EV, Volkswagen ID.4, and Hyundai Kona Electric all offer around 200-250 miles of range. Other models including BMW i3, Nissan LEAF, and Mini Cooper SE don't offer as much range but should suffice for most people's daily commutes and responsibilities. For reference, EV battery capacity is measured in kilowatt-hours (kWh) – and can be thought of as the gallons of gas in a fuel tank (in terms of a traditional ICE vehicle). On average, most electric cars can travel 3 to 4 miles on 1kWh of electricity.

## **TYPES OF ELECTRIC VEHICLE CHARGING**

Currently, there are three main charging station configurations that each have their own designation, referred to as 'charging-level.' Charging level reflects the power supplied from the charging unit to the EVs battery. Charging level essentially translates to the rate at which the EVs battery will be recharged, from 30 minutes to 12+ hours for a full recharge (refer to Figure 3). Typically, the faster the charger, the more expensive it is to install and operate.

### **AC Level 1 Charging (L1)**

Level 1 charging is limited to 120 volts of alternating current (AC), and typically uses a three-pronged plug common to most households. All current EVs are sold with AC Level 1 capabilities and only need a dedicated 20-amp outlet to charge. These chargers charge slowly and are generally used in home or workplace applications where EVs will be parked for long periods of time. L1 charging provides approximately 4.5 miles of additional range per hour of charging.

### **AC Level 2 Charging (L2)**

Level 2 charging provides electric energy at either 240V AC (typical for residential applications) or 208V AC (typical in commercial and industrial applications). Commonly found in workplace, public, and some home charging applications, L2 chargers provide approximately 26 miles of additional range per hour at a 6.6 kWh charge rate. L2 charging is becoming quicker over time, with 20 kW charge rates possible on some vehicles and chargers (capable of supplying 50 miles of range per hour). L2 chargers compared to L1 chargers require additional hardware that can be mounted on the wall, a pole, or as a stand-alone pedestal and must be hard-wired to the electrical source.

### **Level 3 / Direct Current Fast Charging (DCFC)**

DCFC utilizes direct-current (DC) energy transfer and anywhere from 400-9000V AC input to provide rapid recharges at heavily used public charging locations. Typically found in public commercial charging plazas and fleet charging applications, DC fast chargers provide approximately 40 miles of range in ten minutes at a 50kW charge rate. Put another way, DCFC stations can provide an 80% recharge in as little as 30 minutes – depending on the size of the vehicle's battery. DCFC capabilities are also becoming much quicker over time, with 150kW-350kW chargers now being deployed. Fast chargers require high-cost electric infrastructure upgrades and, according to Rocky Mountain Institute, can range in cost from \$20,000 all the way to \$150,000. The Department of Energy reports that DCFC's cost \$10,000 to \$40,000+ for equipment and \$4,000 to \$50,000+ for installation.

## **REGIONAL CHARGING STATION LOCATIONS**

Based on data available on Plugshare.com, a free EV driver's app that allows users to locate public charging stations, there were 53 EV charging stations scattered throughout Berkshire County as of March 2022 (refer to **Figure 6b-1**). Four (4) charging sites offer Direct Current Fast Charging (DCFC) (located in Lee and Great Barrington) and the rest are Level 2 (L2) chargers. Typically, charging stations have two ports, or plugs, meaning they can charge two vehicles at once. Among the existing charging sites in the Berkshires, a total of twenty (20) DCFC ports/plugs are available and one-hundred and fifty-four (154) L2 plugs/ports are available. The heaviest concentration of stations are located in Lee, Lenox, Pittsfield, and Williamstown.

## SUITABLE CHARGING STATION LOCATIONS

AC L1 charging stations are most suitable for residential overnight charging or long-dwell charging at workplaces. Due to their low cost and lower power draw from the grid, L1 chargers are compatible with locations where EVs are parked all day, especially PHEVs that have smaller battery packs. This includes some workplaces, commuter lots, or

long-term parking at airports. Most L1 applications are most appropriate for home use as they draw the amount of power supplied by a 3-pronged outlet common in most households.

AC L2 charging stations are typically accessible in outdoor settings, public venues, and workplaces, retail establishments, municipal parking lots and garages, college campuses, hotels, and motels

– areas where an EV may be parked for 1 to 6 hours. Some L2 home charging applications are also available. L2 power requirements (240 volts) in most instances require little or no utility upgrades.

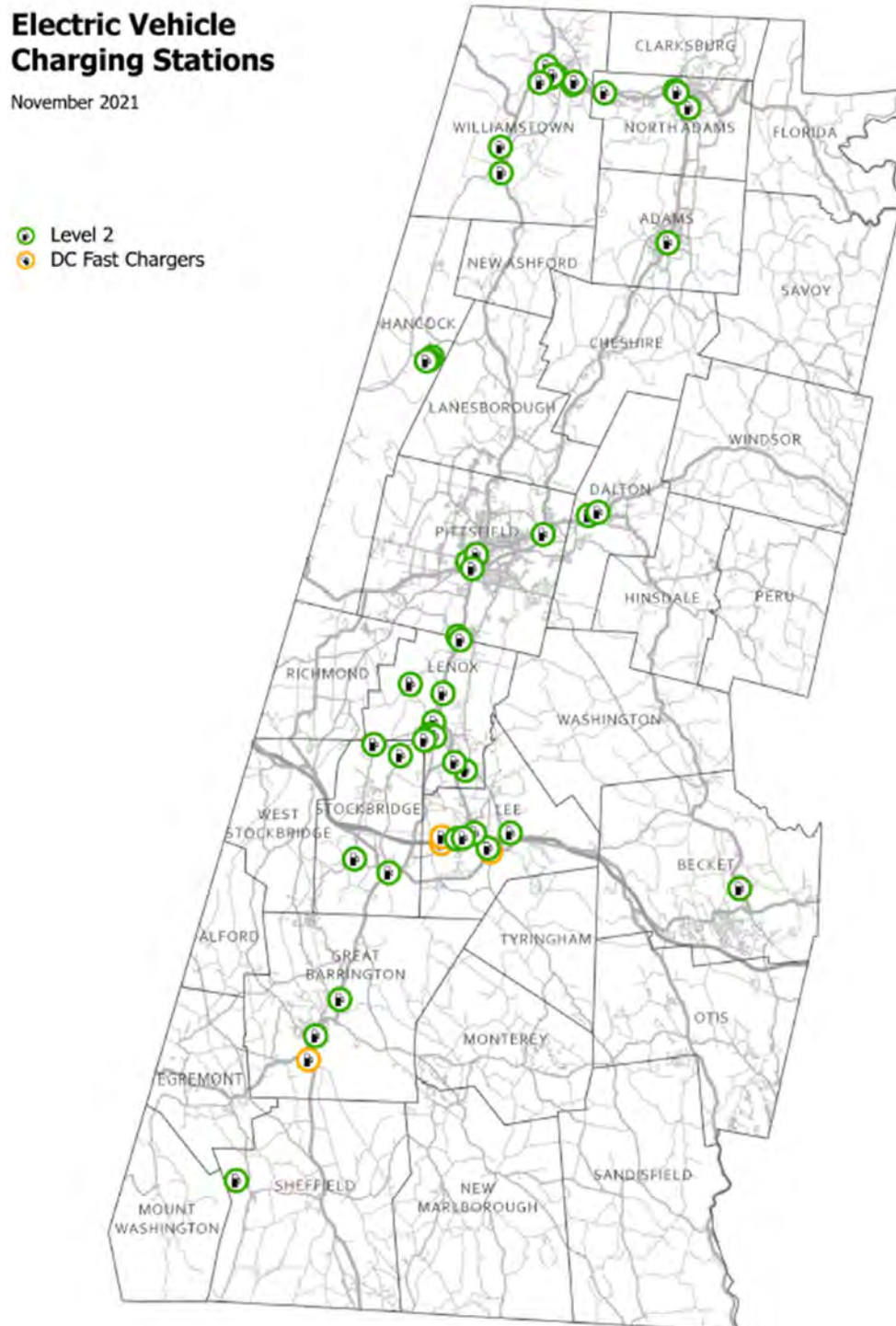
DCFCs draw considerable power and, as a project, are much more capital-intensive and often require utility upgrades. DCFCs lead to increased electrical use and thus higher cost for the host facility. However, DCFCs are necessary for enabling inter-regional travel by EVs traveling along major highways. Moreover, as the size of EV battery packs continue to increase, fast charging will continue to play an important role in facilitating quick and convenient passenger and fleet charging. Thus, suitable DCFC sites are areas along the Interstate, National Highway System, and typically within 1-mile of arterial exits.

As EV adoption rates continue to increase, DC fast chargers will be effective in densely populated areas with a high population of EVs because they provide convenience over L2 charging (quicker) and, in theory, require a smaller footprint (less parking space) due to their ability to supply fast charges to more vehicles

**Figure 6b-1: EV Charging Stations in Berkshire County**

### Electric Vehicle Charging Stations

November 2021



### At-Home Charging

According to the U.S. Department of Energy, over 80% of EV charging happens at home,

where EV owners have set up their own chargers. New EVs typically come with portable charging equipment to allow you to plug in to any 120-volt outlet. The average daily commute of about 30 miles can easily be replenished overnight with an L1 charger.

## EV IMPLEMENTATION RESOURCES

Municipalities, employers, and other organizations that are considering large-scale EV charging infrastructure on their property may be able to benefit from the following programs offered through utility providers and the state and federal government. More information is available in the [Berkshire EV Charging Station Plan](#). Locations highlighted in **Figure 6b-2** represent potential locations for large-scale charging implementation, such as town halls, office buildings, and tourist attractions.

### **Eversource EV Infrastructure Program**

Eversource provides assistance to private organizations and municipal governments to install L2 and DC Fast Chargers through their EV Charging Station Program. Through the program, Eversource advertises that it will cover 100% of the costs associated with infrastructure implementation and readiness. The only cost to the site-host (i.e., business or municipality) is the purchase of the physical charging station(s). It should be noted however, depending on the intended number of chargers that are planned to be installed, and the work needed to make the site ready – there is a chance the site host will have to pay additional costs to meet site requirements. This is highly situational, and those details will be provided prior to any commitments made by the prospective site host. In most instances, site hosts must be Eversource customers to qualify.

In state-defined Environmental Justice (EJ) communities, Eversource, in addition to paying 100% of infrastructure implementation costs, provide financial assistance (to varying degrees) to pay for the cost of the physical charging station and other electric vehicle supply equipment (EVSE).

### **National Grid EV Infrastructure Assistance Program**

National Grid provides varied assistance, both financial and technical, to municipalities and private organizations pursuing the construction of L2 and DC Fast Charging stations. Again, prospective site hosts typically need to be existing National Grid customers to utilize the assistance.

- ◆ **Construction Costs:** Prior to construction, National Grid (most likely through vendor) will conduct a preliminary site assessment to document site needs and site suitability. In virtually all circumstances, National Grid will cover 100% of the construction costs. Among other construction costs, National Grid will pay for pulling the line from the main electrical panel up to the charging station site (site preparation). National Grid will also cover the cost of any electrical unit upgrades – if those costs are reasonably low (site-by-site basis).
- ◆ **Hardware Costs:** Hardware costs cover the actual purchase of the charging stations. In most instances, National Grid will pay for 50% of the cost for the site-host (i.e., municipality) to acquire the charging stations. However, there is a possibility that National Grid will pay for 30% - 75% (75% cost covered for public charging station) of the costs to acquire EV chargers. In Environmental Justice communities that meet 2 of the 3 EJ thresholds (income, English isolation, minority), National Grid will pay for 100% of the costs associated with acquiring and EV chargers.
- ◆ **Software Costs:** Software costs refer to the technology used to operate and track data from each charging port. Software costs represent the primary cost to the site host. National Grid stipulates that communities funded through their program must use the company's EV charging station software (subscription-based). The software, among other functions, allows National Grid to track EV charging data (data is also available to site-host), allows the site-host to set-up fees for EV charger usage (fees for usage can be determined by site-host) and allows site-hosts to implement 'charging policies.'

### **Bipartisan Infrastructure Law (BIL) Formula and Discretionary Grant Programs**

The BIL includes a total of up to \$7.5 billion in dedicated funding to help make EV chargers accessible to all Americans for local to long-distance trips. This funding is separated into two distinct buckets – a \$5 billion National Electric Vehicle Infrastructure (NEVI) Formula Program and a \$2.5 billion Discretionary Grant Program for Charging and Fueling Infrastructure. The NEVI Formula Program will focus on funding EVSE deployment on designated Alternative Fuel Corridors (AFCs),

particularly along the Interstate and National Highway System. The Discretionary Grant Program for Charging and Fueling Infrastructure is further broken into two separate funding buckets (Corridor Charging Grant Program and Community Charging Grant Program) which will focus on funding EVSE deployment along AFCs and in community areas. Massachusetts is expected to receive around \$63.5 million in NEVI program funding over the next 5-years to support EV charging network deployment and expansion. The state will also have the opportunity to apply for additional funding through the Discretionary Grant Program for Charging and Fueling Infrastructure to further support these efforts. As of the writing of this plan, the state has yet to announce how BIL funding for EV charging infrastructure will be allocated (reinvested into existing funding programs or funding new programs) and made accessible to communities throughout the Commonwealth.

## ELECTRIC TRANSIT FLEETS

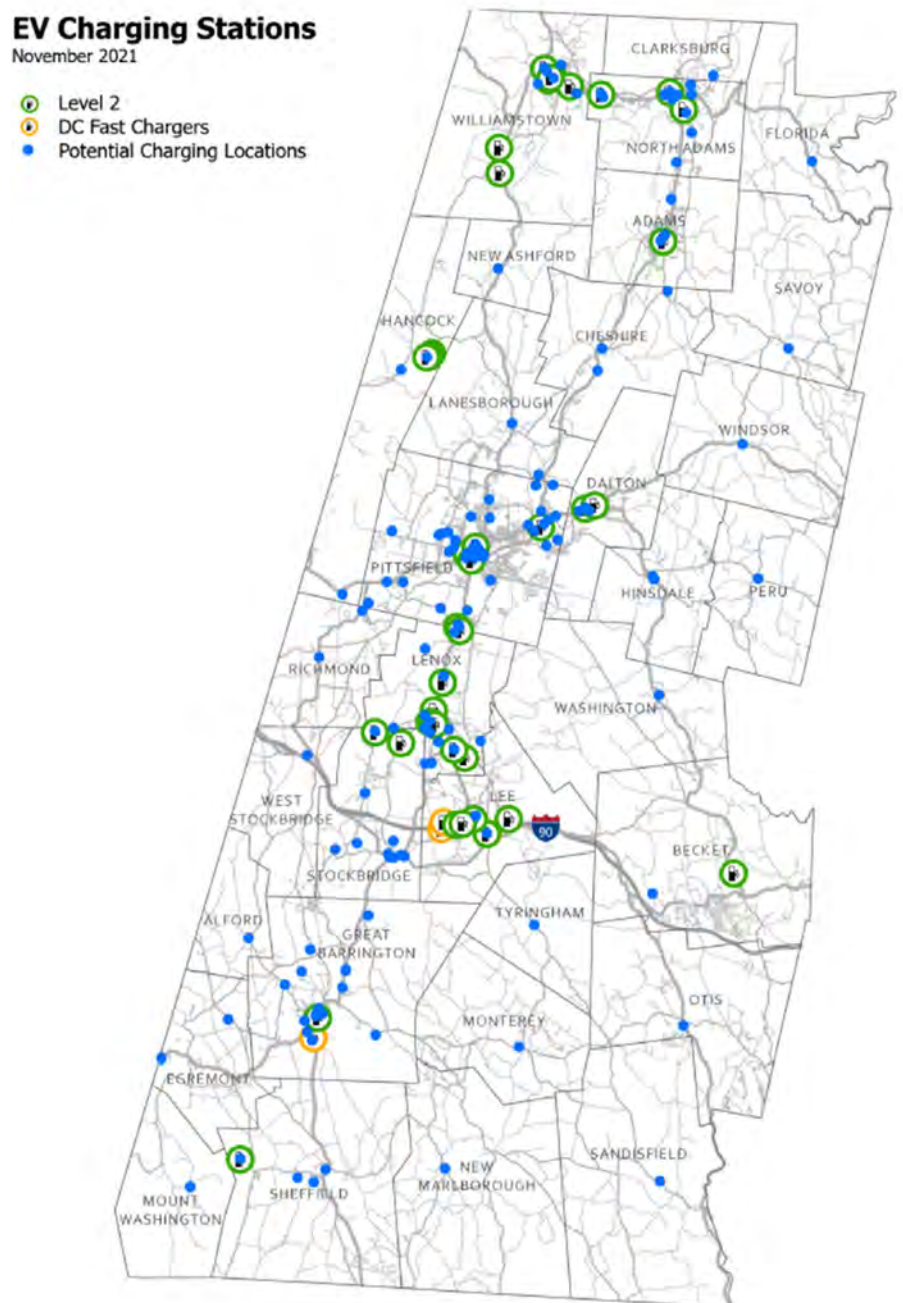
Transitioning public transportation fleets from diesel or gasoline to electric represents another crucial element of reducing and eliminating tailpipe emissions moving forward. There are two major transit fleets in Berkshire County: Public transit operated by the BRTA, and school buses operated by school districts. Adapting these fleets each have their own hosts of variables to consider.

One major variable is the fuel type that is used by the buses. They can vary between hybrid-electric, battery-electric, or hydrogen fuel-cell electric buses. Each of these architectures has their benefits and drawbacks. Hybrid buses are currently in use with many regional transit authorities, and generally do not need dedicated charging infrastructure. Battery electric buses are considered the cleanest option in terms of GHG emissions, provided the electricity supplied to the buses comes from a clean source. Hydrogen fuel-cell buses are also clean at the tailpipe, but hydrogen fuel sourcing

is often taken from natural gas, which emit GHGs during extraction and refinement. Ultimately, the “gold standard” for a transit fleet would be zero-emissions throughout the life cycle of power generation and consumption. This could theoretically be achieved by on-site power generation from renewable resources feeding into battery-electric buses.

Range considerations factor heavily into rural bus routes that often utilize smaller “cutaway” buses that would not be able to hold as large a battery

**Figure 6b-2: Potential Future EV Charging Stations in Berkshire County**



as a full-length “traditional” bus. Purchasing buses that are larger than the capacity typically demanded of certain routes to achieve the needed range may not be the best use for extremely limited transit funds. Equipping smaller buses with batteries is also possible, but more frequent recharging may be required, which would take the bus out of revenue service for recharging time during operating hours, or require a significant investment in fast-charging equipment at hub locations to reduce charging and dwell time. This is feasible from a technical standpoint, but might also be difficult to finance with limited transit funds and the number of buses in Berkshire fleets that could take advantage of the hardware upgrades.

School buses may be able to take more advantage of battery electric infrastructure, as they are typically only in use for several hours during the day, and also off-line for several months of the year. Charging could take place during the school day, so that buses are full by the time of dismissal. Schools may not need to upgrade to DC fast-charging infrastructure depending on range needs. During summer months, buses could be utilized as energy storage banks for other community needs, or to return power to the grid in peak demand times.

Hydrogen fuel cell-electric buses are an alternative option to battery electric buses. Electricity for the a bus' motor is generated using a fuel cell on board the vehicle, fueled by hydrogen gas. The only tailpipe “emission” produced is water. Hydrogen may provide a more flexible option for rural bus operators, and it also comes with benefits and drawbacks. Sourcing hydrogen gas that is free from “fugitive” emissions (that is, GHGs emitted during the extraction or refining of natural gas) can be challenging, and those emissions cannot be discounted. While infrastructure upgrades do not require high-voltage electrical grid upgrades, storage for fuel is required at an accessible depot. Transporting the fuel also generates emissions of GHGs, from trucks or pipeline construction.

There has not been a definitive benefit-cost analysis performed that compares different fuel sources for bus fleets. An urban school district like Pittsfield Public Schools (PPS) may be able to benefit from alternative-fuel buses such as battery or hydrogen fuel-cell. BRPC has worked to collaborate with both PPS and the BRTA to consider

future directions to take for implementing alternative-fuel bus fleets. This work will continue, and resources for a benefit-cost analysis of bus fueling alternatives should be identified. It is important to not that any single-occupant vehicle trip diverted by using public transportation is a benefit to air quality and the environment, regardless of the fuel of the bus. Service should not be affected in such a way as to cause more trips by car to take place as a result of switching to alternative-fuel buses. Transit is a valuable resource that should remain as accessible as possible.

### **RECOMMENDED PROGRAMS:**

- ◆ Establish a Berkshire regional EV charging station working group, including leadership from local governments and industries such as electrical distributors and suppliers
- ◆ Work with municipalities on installing publicly-accessible L2 charging infrastructure in parking areas such as curbsides and municipal parking lots
- ◆ Conduct a benefit-cost analysis of adapting local bus fleets such as BRTA and PPS to alternative-fuel buses

### **UPWP ACTIVITIES:**

- ◆ Work with regional employers and tourism destinations to assist with EV charging station awareness, planning, financing and implementation
- ◆ Continue collaboration with regional bus operators to pursue reductions in tailpipe emissions from transit vehicles.
- ◆ Establish a community liaison or partner to provide a starting-off point for interested stakeholders, communicate with local utility providers, and advocate to policy makers about the needs of Berkshire County to continue EV adoption
- ◆ Collaborate with designated Green Communities in Berkshire County to leverage Green Communities grant funding for the acquisition of EV charging equipment
- ◆ Encourage municipalities to adopt electric vehicle fleets

## 6c. Mitigate Impacts on Natural Habitats

### BACKGROUND

There is an intrinsic link between land use patterns and travel patterns in wealthy, developed countries around the world. Free mobility is often associated with increased quality of life and economic development. As a region grows, its transportation needs grow with it. More trips are generated as a population increases, more employers open their doors, and demand increases for delivery of goods and services.

As a population declines, more land may still be developed. This paradoxical idea has been studied in Upstate New York and can be referred to as "sprawl without growth."

As the Berkshire County population continues to decline, will this pattern also take hold? According to the U.S. Census Bureau, the numbers of building permits issued in Berkshire County has declined

since 1990 (see **Figure 6c-1**), though new homes continue to be built each year as the population declines. While the county is not uniformly declining, and some towns do indeed continue to grow, it is important to consider adaptive reuse of existing buildings or developed land, and to work to keep natural landscapes and habitats protected. As population density declines, a further strain is put on aging infrastructure, as more resources are shared by fewer people. Extending utility services to new developments is costly; while existing lots and structures already served by water, sewer, electricity, and telecommunications provide a much more sustainable alternative.

It will be important to consider how the limited developed land will continue to be used in Berkshire County as the population is expected to decline over the next twenty years. Keeping natural habitats wild and protected is as much a transportation issue as it is an ecological one.

Maintaining roads and bridges that serve to create barriers to the free movement of wildlife causes strains on our fragile ecosystems, especially as the climate changes.

**Figure 6c-1: New Privately Owned Housing Unit Authorizations (via Building Permits). Source: U.S. Census Bureau Building Permits Survey**



### BERKSHIRE WILDLIFE LINKAGE

One of the stated goals of the Berkshire Wildlife Linkage program, under the Nature Conservancy, is to provide opportunities for wildlife to safely cross all major roadways in the region. Wild animal strikes are a well-known occurrence on Berkshire roads, whether they are with large animals like deer, pheasants, and turkeys, or small animals like rodents and amphibians. For wildlife, crossing a road can be an extremely dangerous undertaking. Besides risking strikes from motor vehicles, animals are also taken outside their habitats and exposed to additional elements and predators.

Culverts and underpasses often serve not only as hydrological connections, but as wildlife connections as well. This includes both aquatic and terrestrial wildlife, who use the culvert to traverse under roadways, especially busy, elevated roads like the Massachusetts Turnpike, which creates a wall across the center of Berkshire County for wildlife. The best access points to get to the other side of this wall are culverts and underpasses.

## **BERKSHIRE MUNICIPAL VULNERABILITY PREPAREDNESS (MVP) PROJECTS**

*This information is referenced from reporting under BRPC's work with towns around the region on MVP Action Grant projects.*

There are approximately 25,000 culverts and small bridges in Massachusetts - the majority of which are undersized. In Berkshire County there are some towns that have more culverts than people! Culverts that are too small can be barriers to fish and wildlife movement, can cause flood hazards for communities, need more maintenance, and are more likely to fail (flood or wash out completely) during storm events.

With no formal management system, many Berkshire communities lack a complete inventory of culvert locations. Many times these locations become known once flooding or washout issues occur.

Of all the regions in the United States, the Northeast has seen the most dramatic increase in the intensity of rainfall events. The U.S. National Climate Assessment reports that between 1958 and 2016, the Northeast saw a 55% increase in the amount of precipitation falling in very heavy events (defined as the heaviest 1% of all daily events).

Climate projections for Massachusetts, developed by the University of Massachusetts, suggest that the frequency of high intensity rainfall events will trend upward, and the result will be an increased risk of flooding.

The Towns of Lenox, Stockbridge, New Marlborough, and the City of Pittsfield have all identified flooding as a top hazard and the existing culvert infrastructure as one of their top vulnerabilities in their MVP planning process. Culvert assessments

and prioritization of replacement are a high priority action. While each community has a sense of the most immediate priority structures, none of the communities have a fully updated inventory of their culverts and a completed analysis of the flood risk potential.

### ***Culverts and Aquatic Organisms***

The North Atlantic Aquatic Connectivity Collaborative (NAACC) is a participatory network of practitioners united in their efforts to improve aquatic connectivity across a thirteen-state region, including western Massachusetts. Rivers and streams are particularly vulnerable to fragmentation -the interruption of water flow. Most of the current culverts were designed with the objective of moving water across a road. Little consideration was given to ecosystem processes such as the natural hydrology, sediment transport, fish and wildlife passage, or the movement of woody debris.

It is not surprising, then, that many culverts significantly disrupt the movement of aquatic organisms and water. NAACC inventories culverts to understand how severely they impact the Aquatic Organism Passage (AOP) in order to address barriers to wildlife movement and river and stream continuity more effectively.

Culverts that are "perched" above a water body, blocked by debris, or lacking a natural bottom surface (instead having metal, plastic, or concrete), create a more difficult environment for wildlife to move. A reduced AOP disrupts the movement of fish and other wildlife. This disruption has ecological consequences but also impacts stream connectivity, increasing flood risks. We use the AOP score to help us understand which culverts should be prioritized for replacement.

### ***Designing and Financing Nature-Based Solutions***

Nature-Based Solutions (NBS) are adaptation measures focused on the *protection, restoration, and/or management* of ecological systems to safeguard public health, provide clean air and water, increase natural hazard resilience, and sequester carbon. Incorporating NBS in local planning and design projects produces long term solutions that benefit human and natural systems.

Solutions concerning transportation infrastructure can include:

- ◆ Infiltrating stormwater through vegetated swales and rain gardens
- ◆ Replacing culverts with structures that fully span the stream width

Implementing these important projects can be a challenge for smaller towns in the Berkshires with limited resources. Enhancing a small bridge or culvert to meet modern stream crossing and aquatic connectivity standards, like the one shown in **Figure 6c-2**, is more costly and technically involved than replacing a structure in-kind. This does not mean that the work should be deferred, however. More resources and incentives are needed to keep the work advancing.

Technical assistance should be provided when structures trigger a new Chapter 85 review, if the structure is being brought up to modern stream crossing standards. Additional funds for programs like the Municipal Small Bridge Program and partnering services with qualified design firms will help to get more safe crossings for wildlife built throughout Berkshire County.

## UPWP ACTIVITIES:

- ◆ Continue collaboration with BRPC's Environmental Planning program as well as partners like Housatonic Valley Association, Greenagers, Mass Audubon, and the Nature Conservancy to identify key culverts and wildlife crossing points
- ◆ Advocate for increased funding and technical resources for culvert and stream crossing infrastructure that will be upgraded to modern stream crossing standards
- ◆ Continue updating the inventory of culverts in Berkshire County and their AOP ratings

**Figure 6c-2: A modern culvert built with adequate wildlife and stream crossing dimensions**







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# 5

# Fiscal Analysis

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## Background

The FAST Act, continued through by the BIL, requires that the projects recommended in the RTP be fiscally constrained. Fiscal constraint means that the anticipated cost of planned projects will not reasonably exceed expected revenue. It is crucial to provide a fiscal context for transportation planning as it adds much needed realism to the process. Additionally, it is an extremely valuable consideration in project prioritization among other factors and the anticipated benefits that implemented projects are expected to achieve. This plan is fiscally constrained based on the financial projections provided by MassDOT for the years 2024 to 2044.

### HIGHWAY AND BRIDGE FUNDING

MassDOT Office of Transportation Planning provided anticipated funding levels for the 20 years of the RTP and are found in **Figure 5-1**. These estimates are predicated on the assumption that federal and state match funding for the period of 2020-2040 reflect current allocations and are inflated 2.2% annually from 2021 to 2040. The complete base amount of federal funds available for the statewide road and bridge program includes the required match and represents totals for each 5-year period.

Local aid funding sources such as Chapter 90, town expenditures, and state grant programs like MassWorks are not included in these funding projections. Based on these funding projections, a total of \$737.6 million is anticipated for Berkshire County for highway, bridge, and other projects from FY 2024 through FY 2044. This funding is prioritized annually through the Berkshire MPO's Transportation Improvement Program (TIP).

#### **Bridge Funding**

**Figure 5-2** displays funding levels for the statewide bridge program. It should be noted that funding for the statewide bridge program includes funding for the entire state. It is anticipated that portions of this funding will be available for bridges in our region. Moreover, NFA preservation funds identified in **Figure 5-1** can be used for bridge projects.

## TRANSIT FUNDING

MassDOT provided transit program Federal revenue over the life of this plan for the *5307 Urbanized Area Funding Resources* and *5311 Formula Grants* in non-Urbanized Areas. 5307-eligible activities include planning, engineering design and evaluation of transit projects and other technical transportation-related studies; capital investments in bus and bus-related activities such as replacement of buses, overhaul of buses, rebuilding of buses, crime prevention and security equipment and construction of maintenance and passenger facilities; and capital investments including rolling stock, overhaul and rebuilding of vehicles, signals, communications, and computer hardware and software. All preventive maintenance and some Americans with Disabilities Act complementary paratransit service costs are capital costs.

BRTA can use 5311 funding for capital, operating, and administrative expenses for public transportation projects that meet the needs of rural communities. Examples of eligible activities include: capital projects; operating costs of equipment and facilities for use in public transportation; and the acquisition of public transportation services, including service agreements with private providers of public transportation services.

BRTA uses 5307 funds to upgrade capital assets like vehicles and transit facilities and perform maintenance. BRTA uses 5311 funding to offset operating costs in the Berkshires' rural areas. We do not anticipate the manner in which they use their funding to change from how it has been used in the past. MassDOT indicates that BRTA has \$77.9 million in 5307 funding to continue with capital projects and \$8.2 million in 5311 rural service operating and capital funding over the life of this RTP. Financial information for transit and operating revenue is presented in **Figure 5-3**.

## Fiscal Constraint Analysis

For financial planning purposes and to comply with 23 CFR Part 450, Regional Transportation Plans are required to show that sufficient funding is projected to cover the costs of anticipated projects planned for construction over the horizon of the plan.

The financial analysis presented above has

addressed the revenue sources reasonably expected to be available from both federal and state sources and the cost associated with operations and maintenance needs of the existing transportation system. According to MassDOT projections, it is estimated that \$737,635,858 in funds will be available for highway projects. Federal transit funding is estimated at \$52.8 million. As expenditures do not exceed the projected available funds, the plan meets financial constraint requirements.

**Figure 5-1: Estimated Highway Funding for the Berkshire MPO, FY 2024 - 2044**

	Highway	Non-Interstate DOT Pavement	Remaining Statewide Programs	Non-Federal Aid (NFA) Preservation (highway or bridge projects)	Totals
<b>MARPA Formula (as % of total funding to Berkshire MPO)</b>	<b>3.5596%</b>	<b>9.0200%</b>	<b>3.5596%</b>	<b>3.5596%</b>	
<b>2024</b>	\$ 10,823,430	\$ 6,557,858.68	\$ 7,318,358.98	\$ 3,637,911.20	\$ 28,337,559
<b>2025</b>	\$ 10,639,564	\$ 6,557,858.68	\$ 7,941,311.44	\$ 3,713,579.75	\$ 28,852,314
<b>2026</b>	\$ 10,379,265	\$ 5,863,000.00	\$ 8,329,780.45	\$ 3,790,822.21	\$ 28,362,868
<b>2027</b>	\$ 12,851,903	\$ 6,557,858.68	\$ 5,912,189.33	\$ 3,869,671.31	\$ 29,191,622
<b>2028</b>	\$ 13,093,813	\$ 6,557,858.68	\$ 5,196,945.80	\$ 3,950,160.48	\$ 28,798,778
<b>First 5 years</b>	<b>\$ 57,787,975</b>	<b>\$ 32,094,435</b>	<b>\$ 34,698,586</b>	<b>\$ 18,962,145</b>	<b>\$ 143,543,141</b>
<b>2029</b>	\$ 13,340,561	\$ 6,689,015.88	\$ 5,222,875.25	\$ 4,032,323.82	\$ 29,284,776
<b>2030</b>	\$ 13,592,244	\$ 6,822,796.19	\$ 5,245,668.01	\$ 4,116,196.15	\$ 29,776,904
<b>2031</b>	\$ 13,848,960	\$ 6,959,252.10	\$ 6,110,632.05	\$ 4,201,813.03	\$ 31,120,657
<b>2032</b>	\$ 13,883,887	\$ 7,098,437.11	\$ 6,299,283.91	\$ 4,289,210.74	\$ 31,570,818
<b>2033</b>	\$ 14,347,297	\$ 7,240,405.87	\$ 9,100,800.17	\$ 4,378,426.32	\$ 35,066,930
<b>Second 5 years</b>	<b>\$ 69,012,949</b>	<b>\$ 34,809,907</b>	<b>\$ 31,979,259</b>	<b>\$ 21,017,970</b>	<b>\$ 156,820,085</b>
<b>2034</b>	\$ 14,316,905	\$ 7,385,214.03	\$ 9,299,072.56	\$ 4,469,497.59	\$ 35,470,690
<b>2035</b>	\$ 15,054,840	\$ 7,532,918.24	\$ 9,502,332.91	\$ 4,562,463.14	\$ 36,652,554
<b>2036</b>	\$ 15,340,680	\$ 7,683,576.60	\$ 9,710,703.45	\$ 4,657,362.38	\$ 37,392,322
<b>2037</b>	\$ 15,632,237	\$ 7,837,248.17	\$ 9,924,309.39	\$ 4,754,235.51	\$ 38,148,030
<b>2038</b>	\$ 15,929,625	\$ 7,993,993.13	\$ 10,143,278.93	\$ 4,853,123.61	\$ 38,920,021
<b>Third 5 years</b>	<b>\$ 76,274,287</b>	<b>\$ 38,432,950</b>	<b>\$ 48,579,697</b>	<b>\$ 23,296,682</b>	<b>\$ 186,583,617</b>
<b>2039</b>	\$ 16,232,961	\$ 8,153,872.99	\$ 10,367,743.32	\$ 4,954,068.58	\$ 39,708,646
<b>2040</b>	\$ 16,542,363	\$ 8,316,950.44	\$ 10,597,837.04	\$ 5,057,113.21	\$ 40,514,264
<b>2041</b>	\$ 16,857,954	\$ 8,483,289.43	\$ 10,833,697.74	\$ 5,162,301.16	\$ 41,337,242
<b>2042</b>	\$ 17,179,857	\$ 8,652,955.27	\$ 11,075,466.41	\$ 5,269,677.03	\$ 42,177,955
<b>2043</b>	\$ 17,508,197	\$ 8,826,014.35	\$ 11,323,287.36	\$ 5,379,286.31	\$ 43,036,785
<b>Fourth 5 years</b>	<b>\$ 84,321,332</b>	<b>\$ 42,433,082</b>	<b>\$ 54,198,032</b>	<b>\$ 25,822,446</b>	<b>\$ 206,774,893</b>
<b>2044</b>	\$ 17,843,104	\$ 9,002,534.66	\$ 11,577,308.47	\$ 5,491,175.47	\$ 43,914,123
<b>Fifth 5 years</b>	<b>\$ 17,843,104</b>	<b>\$ 9,002,535</b>	<b>\$ 11,577,308</b>	<b>\$ 5,491,175</b>	<b>\$ 43,914,123</b>
<b>TOTALS</b>	<b>\$ 305,239,647</b>	<b>\$ 156,772,909</b>	<b>\$ 181,032,883</b>	<b>\$ 94,590,419</b>	<b>\$ 737,635,858</b>

The fiscal constraint analysis presented for 2024-2028 is consistent with our regional TIP document (see **Figure 5-4 & 5-5**). All other potential projects mentioned in this document have not been programmed. Analysis of future fiscal constraint consists of summarizing the potential revenue for projects during future 5-year TIP evaluation cycles. The fiscal constraint analysis for 2029-2044 does not program specific projects (see **Figure 5-6**), but the unfunded highway, bridge and bike-ped (see **Figure 5-6**), and transit project (see **Figure 5-7**) lists could be considered for programming in these years. A list of unprogrammed highway, bicycle and pedestrian projects can be found on **Figure 5-8**.

***Unfunded and Unprogrammed Highway and Transit projects***

The unfunded project list is a pool of potential projects awaiting a funding source. Projects in the unfunded project list in **Figure 5-6** can be programmed into the TIP in years 2029-2044. Unfunded projects have been reviewed and given a six-digit project number by the MassDOT Project Review Committee (PRC). The unprogrammed list includes projects that may require additional funding beyond the yearly targets for the region, as well as projects at the conceptual stage that have not been thoroughly developed. Projects may or may not yet have been reviewed and given a project number by MassDOT. This list also contains many "regionally significant" projects with a cost beyond \$10 million.

**Figure 5-2: Estimated Statewide Bridge Funding, FY 2024 - 2044**

	<b>Statewide Bridge Program (funding available to ALL MPOs)</b>	
<b>2024</b>	\$	183,898,219
<b>2025</b>	\$	176,617,938
<b>2026</b>	\$	183,898,219
<b>2027</b>	\$	255,592,933
<b>2028</b>	\$	282,726,401
<b>First 5 years</b>	<b>\$</b>	<b>1,082,733,710</b>
<b>2029</b>	\$	288,380,929
<b>2030</b>	\$	294,148,548
<b>2031</b>	\$	300,031,519
<b>2032</b>	\$	306,032,149
<b>2033</b>	\$	312,152,792
<b>Second 5 years</b>	<b>\$</b>	<b>1,500,745,936</b>
<b>2034</b>	\$	318,395,848
<b>2035</b>	\$	324,763,765
<b>2036</b>	\$	331,259,040
<b>2037</b>	\$	337,884,221
<b>2038</b>	\$	344,641,905
<b>Third 5 years</b>	<b>\$</b>	<b>1,656,944,778</b>
<b>2039</b>	\$	351,534,743
<b>2040</b>	\$	358,565,438
<b>2041</b>	\$	365,736,747
<b>2042</b>	\$	373,051,482
<b>2043</b>	\$	380,512,512
<b>Fourth 5 years</b>	<b>\$</b>	<b>1,829,400,922</b>
<b>2044</b>	\$	388,122,762
<b>Fifth 5 years</b>	<b>\$</b>	<b>388,122,762</b>
<b>TOTALS</b>	<b>\$</b>	<b>6,457,948,108</b>

**Figure 5-3: Estimated Transit Funding for Berkshire MPO, FY 2024 - 2044**

	Statewide revenue targeted to BRTA	FTA Section 5307 Operating Assistance*	FTA Section 5311 Rural Transportation Assistance	Total Funding Stream Targeted to BRTA
2024	\$ 2,033,913	\$ 2,994,667	\$ 314,999	\$ 5,343,579
2025	\$ 2,076,219	\$ 3,056,956	\$ 321,583	\$ 5,454,758
2026	\$ 2,119,404	\$ 3,120,541	\$ 328,304	\$ 5,568,249
2027	\$ 2,163,488	\$ 3,185,448	\$ 335,165	\$ 5,684,101
2028	\$ 2,208,488	\$ 3,251,705	\$ 342,170	\$ 5,802,363
<b>First 5 years</b>	<b>\$ 10,601,512</b>	<b>\$ 15,609,316</b>	<b>\$ 1,642,221</b>	<b>\$ 27,853,049</b>
2029	\$ 2,254,425	\$ 3,319,341	\$ 349,322	\$ 5,923,088
2030	\$ 2,301,317	\$ 3,388,383	\$ 356,622	\$ 6,046,322
2031	\$ 2,349,184	\$ 3,458,861	\$ 364,076	\$ 6,172,121
2032	\$ 2,398,047	\$ 3,530,806	\$ 371,685	\$ 6,300,538
2033	\$ 2,447,927	\$ 3,604,246	\$ 379,453	\$ 6,431,626
<b>Second 5 years</b>	<b>\$ 11,750,900</b>	<b>\$ 17,301,637</b>	<b>\$ 1,821,158</b>	<b>\$ 30,873,695</b>
2034	\$ 2,498,843	\$ 3,679,215	\$ 387,384	\$ 6,565,442
2035	\$ 2,550,819	\$ 3,755,742	\$ 395,480	\$ 6,702,041
2036	\$ 2,603,876	\$ 3,833,862	\$ 403,746	\$ 6,841,484
2037	\$ 2,658,037	\$ 3,913,606	\$ 413,184	\$ 6,984,827
2038	\$ 2,713,324	\$ 3,995,009	\$ 420,799	\$ 7,129,132
<b>Third 5 years</b>	<b>\$ 13,024,899</b>	<b>\$ 19,177,434</b>	<b>\$ 2,020,593</b>	<b>\$ 34,222,926</b>
2039	\$ 2,769,761	\$ 4,078,105	\$ 429,593	\$ 7,277,459
2040	\$ 2,827,372	\$ 4,162,930	\$ 438,572	\$ 7,428,874
2041	\$ 2,886,181	\$ 4,249,519	\$ 447,738	\$ 7,583,438
2042	\$ 2,946,214	\$ 4,337,909	\$ 457,096	\$ 7,741,219
2043	\$ 3,007,495	\$ 4,428,137	\$ 466,649	\$ 7,902,282
<b>Fourth 5 years</b>	<b>\$ 14,437,023</b>	<b>\$ 21,256,600</b>	<b>\$ 2,239,648</b>	<b>\$ 37,933,272</b>
2044	\$ 3,070,051	\$ 4,520,243	\$ 476,402	\$ 8,066,696
<b>Fifth 5 years</b>	<b>\$ 3,070,051</b>	<b>\$ 4,520,243</b>	<b>\$ 476,402</b>	<b>\$ 8,066,696</b>
<b>TOTALS</b>	<b>\$ 52,884,385</b>	<b>\$ 77,865,230</b>	<b>\$ 8,200,022</b>	<b>\$ 138,949,638</b>

\*Based on a 2.08% year-over-year growth rate originating from the FFY23 apportionment of \$2,933,647 per FTA

**Figure 5-3 (continued): Estimated Transit Funding for Berkshire MPO, FY 2024 - 2044**

	<b>Section 5310</b> (shared by all rural RTAs)	<b>Section 5339</b> (shared statewide)	<b>Total Shared Funding Available for eligible RTAs</b>
<b>2024</b>	\$ 932,770	\$ 621,008	<b>\$ 1,553,778</b>
<b>2025</b>	\$ 952,172	\$ 633,925	<b>\$ 1,586,097</b>
<b>2026</b>	\$ 971,977	\$ 647,110	<b>\$ 1,619,087</b>
<b>2027</b>	\$ 992,194	\$ 660,570	<b>\$ 1,652,764</b>
<b>2028</b>	\$ 1,012,832	\$ 674,310	<b>\$ 1,687,142</b>
<b>First 5 years</b>	<b>\$ 4,861,945</b>	<b>\$ 3,236,923</b>	<b>\$ 8,098,869</b>
<b>2029</b>	\$ 1,033,899	\$ 688,336	<b>\$ 1,722,235</b>
<b>2030</b>	\$ 1,055,404	\$ 702,653	<b>\$ 1,758,057</b>
<b>2031</b>	\$ 1,077,356	\$ 717,268	<b>\$ 1,794,625</b>
<b>2032</b>	\$ 1,099,765	\$ 732,188	<b>\$ 1,831,953</b>
<b>2033</b>	\$ 1,122,640	\$ 747,417	<b>\$ 1,870,057</b>
<b>Second 5 years</b>	<b>\$ 5,389,064</b>	<b>\$ 3,587,862</b>	<b>\$ 8,976,926</b>
<b>2034</b>	\$ 1,145,991	\$ 762,963	<b>\$ 1,908,955</b>
<b>2035</b>	\$ 1,169,828	\$ 778,833	<b>\$ 1,948,661</b>
<b>2036</b>	\$ 1,194,160	\$ 795,033	<b>\$ 1,989,193</b>
<b>2037</b>	\$ 1,218,999	\$ 811,569	<b>\$ 2,030,568</b>
<b>2038</b>	\$ 1,244,354	\$ 828,450	<b>\$ 2,072,804</b>
<b>Third 5 years</b>	<b>\$ 5,973,332</b>	<b>\$ 3,976,848</b>	<b>\$ 9,950,181</b>
<b>2039</b>	\$ 1,270,237	\$ 845,682	<b>\$ 2,115,918</b>
<b>2040</b>	\$ 1,296,658	\$ 863,272	<b>\$ 2,159,929</b>
<b>2041</b>	\$ 1,323,628	\$ 881,228	<b>\$ 2,204,856</b>
<b>2042</b>	\$ 1,351,159	\$ 899,558	<b>\$ 2,250,717</b>
<b>2043</b>	\$ 1,379,264	\$ 918,268	<b>\$ 2,297,532</b>
<b>Fourth 5 years</b>	<b>\$ 6,620,945</b>	<b>\$ 4,408,007</b>	<b>\$ 11,028,953</b>
<b>2044</b>	\$ 1,407,952	\$ 937,368	<b>\$ 2,345,321</b>
<b>Fifth 5 years</b>	<b>\$ 1,407,952</b>	<b>\$ 937,368</b>	<b>\$ 2,345,321</b>
<b>TOTALS</b>	<b>\$ 24,253,240</b>	<b>\$ 16,147,009</b>	<b>\$ 40,400,249</b>



**Figure 5-4: Bridge, Highway and Bike-Ped Fiscal Constraint, 2024 - 2028**

Note: This table is a listing of projects programmed in our FFY 2024-2028 TIP. No specific projects have been programmed for RTP years 2029-2044.

2024						
TIP Program	MassDOT Project ID	Municipality	MassDOT Project Description	Related Perf. Measure	Funding Source	Total Programmed Funds
<b>Section 1A / Regionally Prioritized Projects</b>						
<b>Roadway Reconstruction</b>	604003	Pittsfield	PITTSFIELD- RECONSTRUCTION OF EAST STREET (ROUTE 9)	PM2	STBG	\$ 10,423,280
<b>Section 2A / State Prioritized Reliability Projects</b>						
<b>Bridge on-system non-NHS</b>	607597	Lee	LEE- BRIDGE REPLACEMENT, L-05-004, MEADOW STREET OVER POWDER MILL BROOK	PM2	NGBP	\$ 1,943,969
<b>Bridge off-system</b>	608857	Cheshire	CHESHIRE- BRIDGE REPLACEMENT, C-10-002, SAND MILL ROAD OVER DRY BROOK	PM2	STBG-BR-Off	\$ 2,405,358
<b>Bridge off-system</b>	609070	Alford	ALFORD- BRIDGE REPLACEMENT, A-06-004, WEST ROAD OVER SCRIBNER BROOK	PM2	STBG-BR-Off	\$ 3,050,913
<b>Bridge off-system</b>	609078	New Marlborough	NEW MARLBOROUGH- BRIDGE REPLACEMENT, N-08-020, KEYES HILL ROAD OVER UMPACHENE RIVER	PM2	STBG-BR-Off	\$ 1,770,360
<b>Section 3B / Non-Federal Aid Funded</b>						
<b>Bridge on-system non-NHS</b>	607597	Lee	LEE- BRIDGE REPLACEMENT, L-05-004, MEADOW STREET OVER POWDER MILL BROOK	PM2	NGBP	\$ 1,943,969
2025						
TIP Program	MassDOT Project ID	Municipality	MassDOT Project Description	Related Perf. Measure	Funding Source	Total Programmed Funds
<b>Section 1A / Regionally Prioritized Projects</b>						
<b>Roadway Reconstruction</b>	609277	North Adams	NORTH ADAMS- RECONSTRUCTION OF ASHLAND STREET	PM2	STBG	\$ 9,387,949
<b>Safety Improvements</b>	612691	Williamstown	WILLIAMSTOWN- ROUTE 7 ACCESS IMPROVEMENTS AT MOUNT GREYLOCK REGIONAL SCHOOL	PM1	STBG	\$ 520,000
<b>Section 2A / State Prioritized Reliability Projects</b>						
<b>Bridge on-system non-NHS</b>	607677	Lee	LEE- BRIDGE REPLACEMENT, L-05-013, MILL STREET OVER WASHINGTON MOUNTAIN BROOK	PM2	NGBP	\$ 5,285,176
<b>Bridge on-system non-NHS</b>	608857	Pittsfield	PITTSFIELD- BRIDGE REPLACEMENT, P-10-039, WAHCONAH STREET OVER WEST BRANCH HOUSATONIC	PM2	NGBP	\$ 5,762,273

Figure 5-4 (continued): Bridge, Highway and Bike-Ped Fiscal Constraint, 2024 - 2028

TIP Program	MassDOT Project ID	Municipality	MassDOT Project Description	Related Perf. Measure	Funding Source	Total Programmed Funds
Bridge on-system non-NHS	609070	Pittsfield	PITTSFIELD- BRIDGE REPLACEMENT, P-10-040, PONTOOSUC AVE OVER WEST BRANCH HOUSATONIC	PM2	NGBP	\$ 2,779,341
Bridge on-system non-NHS	609078	Great Barrington	GREAT BARRINGTON- BRIDGE REPLACEMENT, G-11-002, DIVISION STREET OVER HOUSATONIC RIVER	PM2	NGBP	\$ 15,660,107
Bridge Off-system	608859	Tyringham	TYRINGHAM- BRIDGE REPLACEMENT, T-10-003, JERUSALEM ROAD OVER HOP BROOK	PM2	STBG-BR-OFF	\$ 2,710,916
Bridge Off-system	609074	Monterey	MONTEREY- BRIDGE REPLACEMENT, M-29-001, CURTIS ROAD OVER KONKAPOT RIVER	PM2	STBG-BR-OFF	\$ 1,156,318
Bridge Off-system	609076	Great Barrington	GREAT BARRINGTON- BRIDGE REPLACEMENT, G-11-006, COTTAGE STREET OVER HOUSATONIC RIVER	PM2	STBG-BR-OFF	\$ 4,368,011
Bridge Off-system	609428	Lanesborough	LANESBOROUGH- BRIDGE REPLACEMENT, L-03-010, BRIDGE STREET OVER TOWN BROOK	PM2	STBG-BR-OFF	\$ 2,763,968
Bridge Off-system	610777	Adams	ADAMS- BRIDGE REPLACEMENT, A-04-038, QUALITY STREET OVER HOOSIC RIVER	PM2	STBG-BR-OFF	\$ 4,675,444
Bridge On-System NHS	609430	Great Barrington	GREAT BARRINGTON- BRIDGE REPLACEMENT, G-11-014, STATE ROAD (ROUTES 7/23) OVER THE HOUSATONIC RIVER	PM2	NGBP	\$ 11,252,218
Bridge On-System NHS	612177	Lanesborough	LANESBOROUGH- BRIDGE REPLACEMENT, L-03-015, US 7 WILLMSTOWN ROAD OVER WATER BRODIE MOUNTAIN BROOK	PM2	NGBP	\$ 2,072,728
Non-Interstate Pavement	610728	Multiple	LEE- BECKET- RESURFACING AND RELATED WORK ON ROUTE 20	PM2	NHPP	\$ 6,065,291
<b>Section 3B / Non-Federal Aid Funded</b>						
Bridge On-system non-NHS	607677	Lee	LEE- BRIDGE REPLACEMENT, L-05-004, MEADOW STREET OVER POWDER MILL BROOK	PM2	NGBP	\$ 5,285,176.00
Bridge On-system non-NHS	612162	Pittsfield	PITTSFIELD- BRIDGE REPLACEMENT, P-10-039, WAHCONAH STREET OVER WEST BRANCH HOUSATONIC	PM2	NGBP	\$ 5,762,273.00
Bridge On-system non-NHS	612168	Pittsfield	PITTSFIELD- BRIDGE REPLACEMENT, P-10-040, PONTOOSUC AVE OVER WEST BRANCH HOUSATONIC	PM2	NGBP	\$ 2,779,341.00

**Figure 5-4 (continued): Bridge, Highway and Bike-Ped Fiscal Constraint, 2024 - 2028**

TIP Program	MassDOT Project ID	Municipality	MassDOT Project Description	Related Perf. Measure	Funding Source	Total Programmed Funds
<b>Bridge On-system non-NHS</b>	612183	Great Barrington	GREAT BARRINGTON-BRIDGE REPLACEMENT, G-11-002, DIVISION STREET OVER HOUSATONIC RIVER	PM2	NGBP	\$ 15,660,107.00
<b>Bridge On-system NHS</b>	609430	Great Barrington	GREAT BARRINGTON-BRIDGE REPLACEMENT, G-11-014, STATE ROAD (ROUTES 7/23) OVER THE HOUSATONIC RIVER	PM2	NGBP	\$ 11,252,218.00
<b>Bridge On-system NHS</b>	612177	Lanesborough	LANESBOROUGH- BRIDGE REPLACEMENT, L-03-015, US 7 WILLMSTOWN ROAD OVER WATER BRODIE MOUNTAIN BROOK	PM2	NGBP	\$ 2,072,728.00
<b>2026</b>						
TIP Program	MassDOT Project ID	Municipality	MassDOT Project Description	Related Perf. Measure	Funding Source	Total Programmed Funds
<b>Section 1A / Regionally Prioritized Projects</b>						
<b>Roadway Reconstruction</b>	608547	Egremont	EGREMONT- RECONSTRUCTION OF MOUNT WASHINGTON ROAD (PHASE I)	PM2	STBG	\$ 10,379,256
<b>Section 2A / State Prioritized Reliability Projects</b>						
<b>Bridge Off-system</b>	609068	Sheffield	SHEFFIELD- BRIDGE REPLACEMENT, S-10-015, KELSEY ROAD OVER SCHENOB BROOK	PM2	STBG-BR-Off	\$ 1,680,912
<b>Bridge Off-system</b>	609069	Becket	BECKET- BRIDGE REPLACEMENT, B-03-045, QUARRY ROAD OVER CUSHMAN BROOK	PM2	STBG-BR-Off	\$ 2,374,920
<b>Bridge On-system NHS</b>	612498	Pittsfield	PITTSFIELD- BRIDGE REPLACEMENT, P-10-003 & P-10-032, SOUTH STREET OVER HOUSATONIC RR & HOUSATONIC RIVER	PM2	NHPP-PEN	\$ 7,997,694

**Figure 5-4 (continued): Bridge, Highway and Bike-Ped Fiscal Constraint, 2024 - 2028**

2027						
TIP Program	MassDOT Project ID	Municipality	MassDOT Project Description	Related Perf. Measure	Funding Source	Total Programmed Funds
<b>Section 1A / Regionally Prioritized Projects</b>						
Roadway Reconstruction	608547	Egremont	EGREMONT- RECONSTRUCTION OF MOUNT WASHINGTON ROAD (PHASE 1)	PM2	STBG	\$ 3,555,839
Roadway Reconstruction	608768	Pittsfield	PITTSFIELD- RESURFACING AND RELATED WORK ON MERRILL ROAD, INCLUDING CONSTRUCTION OF SHARED-USE PATH	PM1 / PM2	HSIP	\$ 434,275
Roadway Reconstruction	608768	Pittsfield	PITTSFIELD- RESURFACING AND RELATED WORK ON MERRILL ROAD, INCLUDING CONSTRUCTION OF SHARED-USE PATH	PM1 / PM2	STBG	\$ 8,696,004
<b>Section 2A / State Prioritized Reliability Projects</b>						
Non-Interstate Pavement	609256	Lanesborough	LANESBOROUGH- RESURFACING AND SIDEWALK CONSTRUCTION ON ROUTE 7	PM2	NHPP	\$ 3,808,000
Non-Interstate Pavement	609394	Multiple	ADAMS- CHESHIRE- PAVEMENT PRESERVATION AND RELATED WORK ON ROUTE 8	PM2	NHPP	\$ 10,038,336
Bridge on-system non-NHS	611942	Sheffield	SHEFFIELD- SUPERSTRUCTURE REPLACEMENT, S-10-024, COUNTY ROAD OVER IRONWORKS BROOK	PM2	NGBP	\$ 2,059,164
<b>Section 2B / State Prioritized Modernization Projects</b>						
Intersection Improvements	611970	Lee	LEE- INTERSECTION IMPROVEMENTS AT PARK STREET AND MAIN STREET (ROUTE 20)	PM1 / PM2	NHPP	\$ 4,346,580
Intersection Improvements	613053	Lenox	LENOX- INTERSECTION IMPROVEMENTS ON ROUTE 20 AT PLUNKETT STREET AND BLANTYRE ROAD	PM1	HSIP	\$ 1,730,008
<b>Section 3B / Non-Federal Aid Funded</b>						
Bridge on-system non-NHS	611942	Sheffield	SHEFFIELD- SUPERSTRUCTURE REPLACEMENT, S-10-024, COUNTY ROAD OVER IRONWORKS BROOK	PM2	NGBP	\$ 2,059,164

**Figure 5-4 (continued): Bridge, Highway and Bike-Ped Fiscal Constraint, 2024 - 2028**

2028						
TIP Program	MassDOT Project ID	Municipality	MassDOT Project Description	Related Perf. Measure	Funding Source	Total Programmed Funds
<b>Section 1A / Regionally Prioritized Projects</b>						
Roadway Reconstruction	608737	Dalton	DALTON- RECONSTRUCTION OF DALTON DIVISION ROAD	PM2	STBG	\$ 7,293,798
Roadway Reconstruction	609292	Pittsfield	PITTSFIELD- RECONSTRUCTION OF EAST STREET (ROUTE 9) FROM ELM STREET TO LYMAN STREET	PM2	STBG	\$ 5,800,000
<b>Section 1B / Earmark or Discretionary Grant Funded Projects</b>						
Bridge off-system Local NB	613136	Savoy	SAVOY- BRIDGE SUPERSTRUCTURE REPLACEMENT, S-06-011, BLACK BROOK RD OVER BLACK BROOK	PM2	BROFF	\$ 2,301,916
Bridge off-system Local NB	613137	Washington	WASHINGTON- BRIDGE REPLACEMENT, W-09-012, LOWER VALLEY RD OVER DEPOT BROOK	PM2	BROFF	\$ 2,993,496
<b>Section 2C / State Prioritized Expansion Projects</b>						
Bicycle and Pedestrian	606890	Multiple	ADAMS- NORTH ADAMS- ASHUWILLTICOOK RAIL TRAIL EXTENSION TO ROUTE 8A (HODGES CROSS ROAD)	PM1	CMAQ	\$ 9,535,200
Bicycle and Pedestrian	607570	Lee	LEE- BIKEWAY CONSTRUCTION, FROM STOCKBRIDGE T.L. TO WEST PARK STREET (PHASE 1)	PM1	CMAQ	\$ 7,165,739
<b>Total of Recommended Highway, Bridge, and Bike/Ped projects:</b>						<b>\$233,059,733</b>
<b>Total Estimated Revenue:</b>						<b>\$233,059,733</b>
<b>Difference:</b>						<b>\$0</b>

**Figure 5-5: Transit Fiscal Constraint 2024 - 2028**

Note: This table is a listing of transit projects programmed in our FFY 2024-2028 TIP. No specific projects have been programmed for RTP years 2029-2044.

2024					
Program	MassDOT Project ID	MassDOT Project Description	FTA Line Item	Funding Source	Total Programmed Funds
<b>Berkshire Regional Transit Authority (BRTA)</b>					
RTA Vehicle Replacement	RTD0010568	BRTA - BUY REPLACEMENT <30 FT BUS (1) FIXED ROUTE- (5339 D)	11.12.04	RTACAP	\$ 26,481
RTA Facility & Vehicle Maintenance	RTD0010569	BRTA - PREVENTIVE MAINTENANCE	11.7A.00	5307	\$ 160,000
RTA Facility & Vehicle Maintenance	RTD0010569	BRTA - PREVENTIVE MAINTENANCE	11.7A.00	RTACAP	\$ 40,000
RTA Fleet Upgrades	RTD0010570	BRTA - ACQUIRE - MISC SUPPORT EQUIPMENT- Purchase Electric Chargers for vehicles	11.42.03	5307	\$ 80,000
RTA Fleet Upgrades	RTD0010570	BRTA - ACQUIRE - MISC SUPPORT EQUIPMENT- Purchase Electric Chargers for vehicles	11.42.03	RTACAP	\$ 20,000
RTA Vehicle Replacement	RTD0011279	BRTA - BUY (3) REPLACEMENT 35-FT BUS (5339 D)	11.12.02	RTACAP	\$ 487,851
RTA Facility & Vehicle Maintenance	RTD0011283	BRTA - HVAC (5339 D)	11.44.01	RTACAP	\$ 100,000
RTA Facility & Vehicle Maintenance	T00054	BRTA-Preventative Maintenance-supporting FCA (5339 SU)	11.44.03	5339	\$ 484,191
RTA Facility & Vehicle Maintenance	T00054	BRTA-Preventative Maintenance-supporting FCA (5339 SU)	11.44.03	RTACAP	\$ 121,048
RTA Facility & Vehicle Maintenance	T00066	BRTA-Passenger Amenities	11.92.02	5307	\$ 80,000
RTA Facility & Vehicle Maintenance	T00066	BRTA-Passenger Amenities	11.92.02	RTACAP	\$ 20,000
RTA Facility & Vehicle Maintenance	T00067	BRTA-Replacement of 2 support trucks	11.42.11	5307	\$ 120,000
RTA Facility & Vehicle Maintenance	T00067	BRTA-Replacement of 2 support trucks	11.42.11	RTACAP	\$ 30,000
<b>TOTAL</b>					<b>\$ 1,769,571</b>

Figure 5-5 (continued): Transit Fiscal Constraint 2024 - 2028

2025					
Program	MassDOT Project ID	MassDOT Project Description	FTA Line Item	Funding Source	Total Programmed Funds
<b>Berkshire Regional Transit Authority (BRTA)</b>					
RTA Facility & Vehicle Maintenance	RTD0010571	BRTA - PREVENTIVE MAINTENANCE	11.7A.00	5307	\$ 160,000
RTA Facility & Vehicle Maintenance	RTD0010571	BRTA - PREVENTIVE MAINTENANCE	11.7A.00	RTACAP	\$ 40,000
RTA Fleet Upgrades	RTD0011281	BRTA - BUY replacement- Support Vehicles-electric	11.42.11	5307	\$ 80,000
RTA Fleet Upgrades	RTD0011281	BRTA - BUY replacement- Support Vehicles-electric	11.42.11	RTACAP	\$ 20,000
RTA Vehicle Replacement	RTD0011289	BRTA - BUY REPLACEMENT <30 FT BUS (3)	11.12.04	5307	\$ 360,000
RTA Vehicle Replacement	RTD0011289	BRTA - BUY REPLACEMENT <30 FT BUS (3)	11.12.04	RTACAP	\$ 90,000
RTA Facility & Vehicle Maintenance	T00064	BRTA-ITS Software Replacement	11.42.03	5307	\$ 400,000
RTA Facility & Vehicle Maintenance	T00064	BRTA-ITS Software Replacement	11.42.03	RTACAP	\$ 100,000
RTA Facility & Vehicle Maintenance	T00065	BRTA-Passenger Amenities	11.92.02	5307	\$ 80,000
RTA Facility & Vehicle Maintenance	T00065	BRTA-Passenger Amenities	11.92.02	RTACAP	\$ 20,000
<b>TOTAL</b>					<b>\$ 1,350,000</b>
2026					
Program	MassDOT Project ID	MassDOT Project Description	FTA Line Item	Funding Source	Total Programmed Funds
<b>Berkshire Regional Transit Authority (BRTA)</b>					
RTA Facility & Vehicle Maintenance	RTD0010573	BRTA - PREVENTIVE MAINTENANCE	11.7A.00	5307	\$ 160,000
RTA Facility & Vehicle Maintenance	RTD0010573	BRTA - PREVENTIVE MAINTENANCE	11.7A.00	RTACAP	\$ 40,000
RTA Vehicle Replacement	T00062	BRTA-Replacement (3) cutaways	11.12.04	5307	\$ 360,000
RTA Vehicle Replacement	T00062	BRTA-Replacement (3) cutaways	11.12.04	RTACAP	\$ 90,000

Figure 5.5 (continued): Transit Fiscal Constraint 2024 - 2028

Program	MassDOT Project ID	MassDOT Project Description	FTA Line Item	Funding Source	Total Programmed Funds
RTA Facility & Vehicle Maintenance	T00063	BRTA-Passenger Amenities	11.92.08	5307	\$ 80,000
RTA Facility & Vehicle Maintenance	T00063	BRTA-Passenger Amenities	11.92.08	RTACAP	\$ 20,000
<b>TOTAL</b>					\$ 750,000
<b>2027</b>					
Program	MassDOT Project ID	MassDOT Project Description	FTA Line Item	Funding Source	Total Programmed Funds
<b>Berkshire Regional Transit Authority (BRTA)</b>					
RTA Facility & Vehicle Maintenance	RTD0011285	BRTA - PREVENTIVE MAINTENANCE	11.7A.00	5307	\$ 160,000
RTA Facility & Vehicle Maintenance	RTD0011285	BRTA - PREVENTIVE MAINTENANCE	11.7A.00	RTACAP	\$ 40,000
RTA Facility & Vehicle Maintenance	RTD0011286	BRTA - PREVENTIVE MAINTENANCE-ITC concrete	11.7A.00	5307	\$ 120,000
RTA Facility & Vehicle Maintenance	RTD0011286	BRTA - PREVENTIVE MAINTENANCE-ITC concrete	11.7A.00	RTACAP	\$ 30,000
RTA Vehicle Replacement	RTD0011287	BRTA - BUY REPLACEMENT <30 FT BUS (2)	11.12.04	5307	\$ 240,000
RTA Vehicle Replacement	RTD0011287	BRTA - BUY REPLACEMENT <30 FT BUS (2)	11.12.04	RTACAP	\$ 60,000
RTA Facility & Vehicle Maintenance	T00060	BRTA-Preventative Maintenance-support FCA (5339 SU)	11.7A.00	OF	\$ 484,191
RTA Facility & Vehicle Maintenance	T00060	BRTA-Preventative Maintenance-support FCA (5339 SU)	11.7A.00	RTACAP	\$ 121,048
RTA Facility & Vehicle Maintenance	T00061	BRTA-Passenger Amenities	11.92.02	5307	\$ 80,000
RTA Facility & Vehicle Maintenance	T00061	BRTA-Passenger Amenities	11.92.02	RTACAP	\$ 20,000
<b>TOTAL</b>					\$ 1,355,239



Figure 5.5 (continued): Transit Fiscal Constraint 2024 - 2028

2028					
Program	MassDOT Project ID	MassDOT Project Description	FTA Line Item	Funding Source	Total Programmed Funds
<b>Berkshire Regional Transit Authority (BRTA)</b>					
<b>RTA Facility &amp; Vehicle Maintenance</b>	T00056	BRTA-Preventative Maintenance	11.7A.00	5307	\$ 160,000
<b>RTA Facility &amp; Vehicle Maintenance</b>	T00056	BRTA-Preventative Maintenance	11.7A.00	RTACAP	\$ 40,000
<b>RTA Facility &amp; Vehicle Maintenance</b>	T00057	BRTA-Passenger Amenities- Bus shelters, accessories, bus stop signs, etc.	11.92.02	5307	\$ 80,000
<b>RTA Facility &amp; Vehicle Maintenance</b>	T00057	BRTA-Passenger Amenities- Bus shelters, accessories, bus stop signs, etc.	11.92.02	RTACAP	\$ 20,000
<b>RTA Vehicle Replacement</b>	T00059	BRTA-Buy Replacement Cutaway Buses (3)	11.12.04	5307	\$ 360,000
<b>RTA Vehicle Replacement</b>	T00059	BRTA-Buy Replacement Cutaway Buses (3)	11.12.04	RTACAP	\$ 90,000
<b>TOTAL</b>					\$ 750,000

**Total of Recommended Section 5307 Projects: \$3,320,000**

**Total Recommended Section 5307 Investment: \$3,320,000**

**Difference: \$0**

**Total of Recommended Section 5339 Investment: \$484,191**

**Anticipated Contribution from Section 5339: \$484,191**

**Difference: \$0**

**Figure 5-6: Unfunded Highway Project List**

Unfunded Highway Projects					
Location	Type of Work	Municipality	Project ID# (if applicable)	TIP Score	Estimated Cost
	Complete Streets				
<b>Route 7&amp;23</b>	Implementation	Great Barrington	609465	5	\$ 12,700,000
<b>Route 43</b>	Resurfacing	Williamstown	608472	4	\$ 18,336,200
<b>Route 7/S Main St</b>	Reconstruction	Gt Barrington	609215	4	\$ 6,931,990
<b>Route 7</b>	Resurfacing	Williamstown	613093	1	\$ 5,255,000
	Bridge Replacement/Safety				
<b>Hubbard Ave</b>	Improvements	Pittsfield	XXX17A	TBD	\$ 15,000,000
<b>Housatonic Bike Path</b>	Design and Construction	Gt Barrington	XXX16D	TBD	\$ 4,500,000
<b>Summer Street</b>	Rehabilitation	Lanesborough	XXX14B	TBD	\$ 1,600,000
<b>Route 7</b>	Retaining Wall Replacement	Williamstown	613074	3	\$ 3,458,138
	Reconstruction of Mount				
<b>Mt. Washington Rd</b>	Wahington Rd (Phase II)	Egremont	612784	TBD	\$ 9,807,885
<b>TOTAL: Unfunded Highway</b>					<b>\$ 77,589,213</b>

**Figure 5-7: Unfunded Transit Project List**

Unfunded Transit Projects		
Target Year	Type of Work	Estimated Cost
<b>2024</b>	New parking area, new buses	\$ 1,740,000
<b>2024</b>	Purchase 2 trollies and 2 expansion fleet; hybrid	\$ 3,000,000
<b>2024</b>	Purchase 9 expansion vans; hybrid	\$ 1,800,000
<b>2025</b>	Satellite Facility - North County	\$ 1,150,000
<b>2025</b>	Electric Charging in North County	\$ 1,500,000
<b>2025</b>	Purchase 3 expansion FR vans; hybrid	\$ 600,000
<b>2026</b>	Buy vans for service expansion; hybrid	\$ 600,000
<b>2026</b>	Buy 35-ft bus for expansion; hybrid	\$ 1,000,000
<b>2027</b>	Satellite Facility - South County	\$ 1,150,000
<b>2027</b>	Electric Charging for South County	\$ 1,500,000
<b>TOTAL: Unfunded Transit</b>		<b>\$ 14,040,000</b>

**Figure 5-8: Unprogrammed Highway Project List**

Unprogrammed Highway Projects					
Location	Type of Work	Municipality	Project ID# (if applicable)	TIP Score	Estimated Cost
<b>Route 7</b>	Reconstruction	Pittsfield	None	TBD	\$ 6,000,000
<b>Bucklin Road/E Road</b>	Reconstruction	Adams	None	TBD	\$ 1,100,000
<b>W Road</b>	Reconstruction	Adams	None	TBD	\$ 1,100,000
<b>Summer Street</b>	Reconstruction	Lanesborough	None	TBD	\$ 563,000
<b>Lanesboro Road</b>	Reconstruction	Cheshire	None	TBD	\$ 849,000
<b>County Road</b>	Reconstruction	Sheffield	None	TBD	\$ 893,000
<b>Ashwiltticook RT</b>	Bicycle /Pedestrian Expansion	North Adams	None	TBD	\$ 10,000,000
<b>North Adams</b>	Adventure Trail Bicycle/Ped Expansion	North Adams	None	TBD	\$ 15,000,000
<b>Route 7/Hous. RR</b>	Bicycle /Pedestrian Expansion	Sheffield	None	TBD	\$ 16,000,000
<b>Williamstown</b>	Bicycle /Pedestrian Expansion	Williamstown	None	TBD	\$ 3,200,000
<b>Lenox</b>	Lenox Bikeway construction phase 1	Lenox	None	TBD	\$ 3,500,000
<b>Lenox</b>	Lenox Bikeway construction phase 2	Lenox	None	TBD	\$ 7,000,000
<b>Lenox/Pittsfield</b>	Lenox/Pittsfield bikeway connector	Multiple	None	TBD	\$ 4,000,000
<b>Lee</b>	Lee Bikeway phase 2	Lee	None	TBD	\$ 5,000,000
<b>Route 7</b>	Sidewalk expansion	Pittsfield	None	TBD	\$ 1,200,000
<b>Route 7/20</b>	Sidewalk expansion	Lenox	None	TBD	\$ 2,200,000
<b>Crane Avenue</b>	Sidewalk expansion	Pittsfield	None	TBD	\$ 213,000
<b>East Street</b>	Raised crossing	Pittsfield	None	TBD	\$ 100,000
<b>Government Drive</b>	Sidewalk expansion	Pittsfield	None	TBD	\$ 3,000,000
<b>TOTAL: Unprogrammed Highway, Bicycle, Pedestrian</b>					<b>\$ 80,918,000</b>

**Figure 5-9: Fiscal Constraint Analysis, 2029 - 2044**

Note: This RTP programs no projects beyond those in FFY 2024-2028, which is consistent with our FFY 2024-2028 TIP. No specific projects have been programmed for RTP years 2029-2044. This table only provides guidance for a recommended level of investment based on financial targets provided by MassDOT and infrastructure needs.

<b>Anticipated Revenue and Investment: 2029 - 2044</b>				
<b>Bridge</b>	<b>2029-2033</b>	<b>2034-2038</b>	<b>2039-2044</b>	<b>Totals</b>
<b>Anticipated State Bridge Revenue</b>	\$50,000,000	\$50,000,000	\$50,000,000	\$150,000,000
<b>Subtotal</b>	\$50,000,000	\$50,000,000	\$50,000,000	\$150,000,000
<b>Recommended Bridge Investment</b>	\$50,000,000	\$50,000,000	\$50,000,000	\$150,000,000
<b>Difference</b>	\$0	\$0	\$0	\$0
<b>Highway</b>	<b>2029-2033</b>	<b>2034-2038</b>	<b>2039-2044</b>	<b>Totals</b>
<b>Highway</b>	\$69,012,949	\$76,274,287	\$102,164,436	\$247,451,672
<b>Non-Interstate Pavement</b>	\$34,809,907	\$38,432,950	\$51,435,617	\$124,678,474
<b>Remaining SW Programs</b>	\$31,979,259	\$48,579,697	\$65,775,340	\$146,334,297
<b>NFA Preservation</b>	\$21,017,970	\$23,296,682	\$31,313,622	\$75,628,274
<b>Subtotal</b>	\$156,820,085	\$186,583,617	\$250,689,015	\$594,092,717
<b>Recommended Highway Investment</b>	\$156,820,085	\$186,583,617	\$250,689,015	\$594,092,717
<b>Difference</b>	\$0	\$0	\$0	\$0
<b>Transit</b>	<b>2029-2033</b>	<b>2034-2038</b>	<b>2039-2044</b>	<b>Totals</b>
<b>Section 5307</b>	\$17,301,637	\$19,177,434	\$25,776,843	\$62,255,914
<b>Section 5311</b>	\$1,821,158	\$2,020,593	\$2,716,050	\$6,557,801
<b>Subtotal</b>	\$19,122,795	\$21,198,027	\$28,492,893	\$68,813,715
<b>Recommended Transit Investment</b>	\$19,122,795	\$21,198,027	\$28,492,893	\$68,813,715
<b>Difference</b>	\$0	\$0	\$0	\$0



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# 6

# Air Quality Conformity and GHG Analysis

**BERKSHIRE REGION MPO AIR QUALITY CONFORMITY  
DETERMINATION .....154**

*Introduction*

*Legislative and Regulatory Background*

*Current Conformity Determination*

*Evaluation And Reporting Of Statewide Greenhouse Gas Reductions In  
Transportation - June 2023*

# Berkshire Region MPO Air Quality Conformity Determination

This section documents the latest air quality conformity determination for the 1997 ozone National Ambient Air Quality Standards (NAAQS) in the Berkshire Region. It covers the applicable conformity requirements according to the latest regulations, regional designation status, legal considerations, and federal guidance. Further details and background information are provided below:

## INTRODUCTION

The 1990 Clean Air Act Amendments (CAAA) require metropolitan planning organizations within nonattainment and maintenance areas to perform air quality conformity determinations prior to the approval of Long-Range Transportation Plans (LRTPs) and Transportation Improvement Programs (TIPs), and at such other times as required by regulation. Clean Air Act (CAA) section 176(c) (42 U.S.C. 7506(c)) requires that federally funded or approved highway and transit activities are consistent with ("conform to") the purpose of the State Implementation Plan (SIP). Conformity to the purpose of the SIP means that means Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) funding and approvals are given to highway and transit activities that will not cause or contribute to new air quality violations, worsen existing violations, or delay timely attainment of the relevant NAAQS or any interim milestones (42 U.S.C. 7506(c)(1)). EPA's transportation conformity rules establish the criteria and procedures for determining whether metropolitan transportation plans, transportation improvement programs (TIPs), and federally supported highway and transit projects conform to the SIP (40 CFR Parts 51.390 and 93).

A nonattainment area is one that the U.S. Environmental Protection Agency (EPA) has designated as not meeting certain air quality standards. A maintenance area is a nonattainment area that now meets the standards and has been re-designated as maintaining the standard. A conformity determination is a demonstration that plans, programs, and projects are consistent with the State Implementation Plan (SIP) for attaining the air quality standards. The CAAA requirement to perform a conformity determination ensures that federal approval and funding go to transportation activities that are consistent with air quality goals.

## LEGISLATIVE AND REGULATORY BACKGROUND

The entire Commonwealth of Massachusetts was previously classified as nonattainment for ozone, and was divided into two nonattainment areas. The Eastern Massachusetts ozone nonattainment area included Barnstable, Bristol, Dukes, Essex, Middlesex, Nantucket, Norfolk, Plymouth, Suffolk, and Worcester counties. Berkshire, Franklin, Hampden, and Hampshire counties comprised the Western Massachusetts ozone nonattainment area. With these classifications, the 1990 Clean Air Act Amendments (CAAA) required the Commonwealth to reduce its emissions of volatile organic compounds (VOCs) and nitrogen oxides (NOx), the two major precursors to ozone formation to achieve attainment of the ozone standard.

The 1970 Clean Air Act defined a one-hour national ambient air quality standard (NAAQS) for ground-level ozone. The 1990 CAAA further classified degrees of nonattainment of the one-hour standard based on the severity of the monitored levels of the pollutant. The entire commonwealth of Massachusetts was classified as being in serious nonattainment for the one-hour ozone standard, with a required attainment date of 1999. The attainment date was later extended, first to 2003 and a second time to 2007.

In 1997, the EPA proposed a new, eight-hour ozone standard that replaced the one-hour standard, effective June 15, 2005. Scientific information had shown that ozone could affect human health at lower levels, and over longer exposure times than one hour. The new standard was challenged in court, and after a lengthy legal battle, the courts upheld it. It was finalized in June 2004. The eight-hour standard is 0.08 parts per million, averaged over eight hours and not to be exceeded more than once per year. Nonattainment areas were again further classified based on the severity of the eight-hour values. Massachusetts as a whole was classified as being in moderate nonattainment for the eight-hour standard, and was separated into two nonattainment areas—Eastern Massachusetts and Western Massachusetts.



In March 2008, EPA published revisions to the eight-hour ozone NAAQS establishing a level of 0.075 ppm, (March 27, 2008; 73 FR 16483). In 2009, EPA announced it would reconsider this standard because it fell outside of the range recommended by the Clean Air Scientific Advisory Committee. However, EPA did not take final action on the reconsideration so the standard would remain at 0.075 ppm.

After reviewing data from Massachusetts monitoring stations, EPA sent a letter on December 16, 2011 proposing that only Dukes County would be designated as nonattainment for the new proposed 0.075 ozone standard. Massachusetts concurred with these findings.

On May 21, 2012, (77 FR 30088), the final rule was published in the Federal Register, defining the 2008 NAAQS at 0.075 ppm, the standard that was promulgated in March 2008. A second rule published on May 21, 2012 (77 FR 30160), revoked the 1997 ozone NAAQS to occur one year after the July 20, 2012 effective date of the 2008 NAAQS.

Also on May 21, 2012, the air quality designations areas for the 2008 NAAQS were published in the Federal Register. In this Federal Register, the only area in Massachusetts that was designated as non-attainment is Dukes County. All other Massachusetts counties were designated as attainment/unclassified for the 2008 standard. On March 6, 2015, (80 FR 12264, effective April 6, 2015) EPA published the Final Rulemaking, "Implementation of the 2008 National Ambient Air Quality Standards (NAAQS) for Ozone: State Implementation Plan Requirements; Final Rule." This rulemaking confirmed the removal of transportation conformity to the 1997 Ozone NAAQS and the replacement with the 2008 Ozone NAAQS, which (with actually a stricter level of allowable ozone concentration than the 1997 standards) classified Massachusetts as "Attainment/unclassifiable" (except for Dukes County).

However, on February 16, 2018, the United States Court of Appeals for the District of Columbia Circuit in *South Coast Air Quality Mgmt. District v. EPA* ("South Coast II," 882 F.3d 1138) held that transportation conformity determinations must be made in areas that were either nonattainment or maintenance for the 1997 ozone NAAQS and attainment for the 2008 ozone NAAQS when the 1997 ozone NAAQS was revoked. Conformity determinations

are required in these areas after February 16, 2019. On November 29, 2018, EPA issued Transportation Conformity Guidance for the South Coast II Court Decision (EPA-420-B-18-050, November 2018) that addresses how transportation conformity determinations can be made in these areas. According to the guidance, both Eastern and Western Massachusetts, along with several other areas across the country, are now defined as "orphan nonattainment areas" – areas that were designated as non-attainment for the 1997 ozone NAAQS at the time of its revocation (80 FR 12264, March 6, 2015) and were designated attainment for the 2008 ozone NAAQS in EPA's original designations rule for this NAAQS (77 FR 30160, May 21, 2012).

## CURRENT CONFORMITY DETERMINATION

After 2/16/19, as a result of the court ruling and the subsequent federal guidance, transportation conformity for the 1997 NAAQS – intended as an "anti-backsliding" measure – now applies to both of Massachusetts' orphan areas. Therefore, a conformity determination was made for the 1997 ozone NAAQS on the 2020-2040 Regional Transportation Plans. This conformity determination was finalized in July 2019 following each MPO's previous endorsement of their regional transportation plan, and approved by the Massachusetts Divisions of FHWA and FTA on October 15, 2019. This conformity determination continues to be valid for the Berkshire FFY 2023-2027 Transportation Improvement Program, and Massachusetts' FFY 2023-2027 STIP, as each is developed from the conforming 2020-2040 Regional Transportation Plans.

The transportation conformity regulation at 40 CFR 93.109 sets forth the criteria and procedures for determining conformity. The conformity criteria for TIPs and RTPs include: latest planning assumptions (93.110), latest emissions model (93.111), consultation (93.112), transportation control measures (93.113(b) and (c)), and emissions budget and/or interim emissions (93.118 and/or 93.119).

For the 1997 ozone NAAQS areas, transportation conformity for TIPs and RTPs for the 1997 ozone NAAQS can be demonstrated without a regional emissions analysis, per 40 CFR 93.109(c). This provision states that the regional emissions analysis requirement applies one year after the effective date of EPA's nonattainment designation for a NAAQS and until the effective date of revocation of

such NAAQS for an area. The 1997 ozone NAAQS revocation was effective on April 6, 2015, and the South Coast II court upheld the revocation. As no regional emission analysis is required for this conformity determination, there is no requirement to use the latest emissions model, or budget or interim emissions tests.

Therefore, transportation conformity for the 1997 ozone NAAQS for the Berkshire FFY 2023-2027 Transportation Improvement Program and 2020-2040 Regional Transportation Plans can be demonstrated by showing that remaining requirements in Table 1 in 40 CFR 93.109 have been met. These requirements, which are laid out in Section 2.4 of EPA's guidance and addressed below, include:

- ◆ Latest planning assumptions (93.110)
- ◆ Consultation (93.112)
- ◆ Transportation Control Measures (93.113)
- ◆ Fiscal Constraint (93.108)

**Latest Planning Assumptions:**

The use of latest planning assumptions in 40 CFR 93.110 of the conformity rule generally apply to regional emissions analysis. In the 1997 ozone NAAQS areas, the use of latest planning assumptions requirement applies to assumptions about

transportation control measures (TCMs) in an approved SIP (See following section on Timely Implementation of TCMs).

**Consultation:**

The consultation requirements in 40 CFR 93.112 were addressed both for interagency consultation and public consultation. Interagency consultation was conducted with FHWA, FTA, US EPA Region 1, MassDEP, and the Massachusetts MPOs on March 6, 2019 to discuss the latest conformity-related court rulings and resulting federal guidance. Regular and recurring interagency consultations have been held since on an (at least) annual schedule, with the most recent conformity consultation held on April 27, 2022. This ongoing consultation is conducted in accordance with the following:

- ◆ Massachusetts' Air Pollution Control Regulations 310 CMR 60.03 "Conformity to the State Implementation Plan of Transportation Plans, Programs, and Projects Developed, Funded or Approved Under Title 23 USC or the Federal Transit Act"
- ◆ The Commonwealth of Massachusetts Memorandum of Understanding among the Massachusetts Department of Transportation, Massachusetts Department of Environmental Protection, Massachusetts Metropolitan Planning Organizations, and Regional Transit Authorities, titled The Conduct of Air Quality Planning and Coordination for Transportation Conformity (dated September 16, 2019)

Public consultation was conducted consistent with planning rule requirements in 23 CFR 450. Title 23 CFR Section 450.324 and 310 CMR 60.03(6) (h) requires that the development of the TIP, RTP, and related certification documents provide an adequate opportunity for public review and comment. Section 450.316(b) also establishes the outline for MPO public participation programs. The Berkshire MPO's Public Participation Plan was formally adopted in 2016. The Public Participation Plan ensures



that the public will have access to the RTP and all supporting documentation, provides for public notification of the availability of the RTP and the public's right to review the document and comment thereon, and provides a 21-day public review and comment period prior to the adoption of the RTP and related certification documents. The Public Participation Plan can be found online at <https://berkshireplanning.org/initiatives/metropolitan-planning-organization-mpo/>

The public comment period for this conformity determination commenced on June 28, 2023. During the 21-day public comment period, any comments received were incorporated into this Plan. This allowed ample opportunity for public comment and MPO review of the draft document. The public comment period will close on July 18, 2023 and subsequently, the Berkshire MPO is expected to endorse this air quality conformity determination on or before July 25, 2023. These procedures comply with the associated federal requirements.

***Fiscal Constraint:***

Transportation conformity requirements in 40 CFR 93.108 state that TIPs and transportation plans and must be fiscally constrained consistent with DOT's metropolitan planning regulations at 23 CFR part 450. The Berkshire 2023-2027 Transportation Improvement Program and 2020-2040 Regional Transportation Plan are fiscally constrained, as demonstrated in this document.

In summary and based upon the entire process described above, the Berkshire MPO has prepared this conformity determination for the 1997 Ozone NAAQS in accordance with EPA's and Massachusetts' latest conformity regulations and guidance. This conformity determination process demonstrates that the FFY 2023-2027 Transportation Improvement Program and the 2020-2040 Regional Transportation Plan meet the Clean Air Act and Transportation Conformity Rule requirements for the 1997 Ozone NAAQS, and have been prepared following all the guidelines and requirements of these rules during this time period.

Therefore, the implementation of the Berkshire MPO's FFY 2023-2027 Transportation Improvement Program and the 2020-2040 Regional Transportation Plan are consistent with the air quality goals of, and in conformity with, the Massachusetts State Implementation Plan.

## **EVALUATION AND REPORTING OF STATE-WIDE GREENHOUSE GAS REDUCTIONS IN TRANSPORTATION - JUNE 2023**

This section documents recent progress made by MassDOT and the MPOs in working to help achieve greenhouse gas (GHG) reduction goals as outlined in state regulations applicable to Massachusetts. This "progress report" estimates future carbon dioxide (CO<sub>2</sub>) emissions from the transportation sector as part of meeting the GHG reduction goals established through the Commonwealth's Global Warming Solutions Act (GWSA).

***GWSA Transportation Status: Future Carbon Dioxide Emissions Reductions***

The Global Warming Solutions Act of 2008 requires statewide reductions in greenhouse gas (CO<sub>2</sub>) emissions of 25 percent below 1990 levels by the year 2020, and 80 percent below 1990 levels by 2050.

The Commonwealth's thirteen metropolitan planning organizations (MPOs) are involved in helping to achieve greenhouse gas reductions mandated under the GWSA. The MPOs work closely with the Massachusetts Department of Transportation (MassDOT) and other involved agencies to develop common transportation goals, policies, and projects that would help to reduce GHG emission levels statewide, and meet the specific requirements of the GWSA regulation – Global Warming Solutions Act Requirements for the Transportation Sector and the Massachusetts Department of Transportation (310 CMR 60.05). The purpose of this regulation is to assist the Commonwealth in achieving their adopted GHG emission reduction goals by:

- ◆ Requiring each MPO to evaluate and report the aggregate GHG emissions and impacts of both its Regional Transportation Plan (RTP) and Transportation Improvement Program (TIP).
- ◆ Requiring each MPO, in consultation with MassDOT, to develop and utilize procedures to prioritize and select projects in its RTP and TIP based on factors that include GHG emissions and impacts.

Meeting the requirements of this regulation is being achieved through the transportation goals and policies contained in the Federal Fiscal Year (FFY) 2024 RTPs, the major projects planned in the RTPs, and the mix of new transportation projects that are programmed and implemented through the TIPs.

The GHG evaluation and reporting processes enable the MPOs and MassDOT to identify the anticipated GHG impacts of the planned and programmed projects, and also to use GHG impacts as a criterion in prioritizing transportation projects. This approach is consistent with the greenhouse gas reduction policies of promoting healthy transportation modes through prioritizing and programming an appropriate balance of roadway, transit, bicycle and pedestrian investments; as well as supporting smart growth development patterns through the creation of a balanced multi-modal transportation system. All of the MPOs and MassDOT are working toward reducing greenhouse gases with "sustainable" transportation plans, actions, and strategies that include (but are not limited to):

- ◆ Reducing emissions from construction and operations
- ◆ Using more fuel-efficient fleets
- ◆ Implementing and expanding travel demand management programs
- ◆ Encouraging eco-driving
- ◆ Providing mitigation for development projects
- ◆ Improving pedestrian, bicycle, and public transit infrastructure and operations (healthy transportation)
- ◆ Investing in higher density, mixed use, and transit-oriented developments (smart growth)

**Regional GHG Evaluation and Reporting in RTPs**

MassDOT coordinated with MPOs and regional planning agency (RPA) staffs on the implementation of GHG evaluation and reporting in development of each MPO's 2016 and 2020 RTPs. This collaboration has continued in developing the MPOs' FFY 2024 RTPs and FFYs 2024-28 TIPs. Working together, MassDOT and the MPOs have attained the following milestones:

- ◆ Modeling and long-range statewide projections for GHG emissions resulting from the transportation sector, as a supplement to the FFY 2024 RTPs. Using the newly updated statewide travel demand model, GHG emissions have been estimated for 2019 (base) conditions, and for 2050 base ("no-build" including existing and committed projects) and build (action) conditions (see the chart in this section for the results of this modeling).
- ◆ All of the MPOs have addressed GHG emission

reduction projections in their RTPs (including the statewide estimates in the chart that follows), along with a discussion of climate change and a statement of MPO support for reducing GHG emissions from transportation as a regional goal.

MassDOT's statewide estimates of CO2 emissions resulting from the collective list of all recommended projects in all Massachusetts RTPs combined are presented in the table below. Emissions estimates incorporate the latest planning assumptions including updated socio-economic projections consistent with the FFY 2024 RTPs:

**Massachusetts Statewide Aggregate CO2 Estimated Emissions Impacts from Transportation (all emissions in tons per summer day):**

Year	CO <sub>2</sub> Action Emissions	CO <sub>2</sub> Base Emissions	Difference (Action - Base)
2019	75,113.60	75,113.60	N/A
2050	53,772.50	53781.4	-8.9

This analysis includes only those larger, regionally significant projects that are included in the statewide travel demand model. Many other types of projects that cannot be accounted for in the model (such as bicycle and pedestrian facilities, shuttle services, intersection improvements, etc.), are covered in each MPO region's RTP with either "qualitative" assessments of likely CO2 change, or actual quantitative estimates listed for each project.

As shown above, collectively, all the projects in the RTPs in the 2050 Action scenario provide a statewide reduction of nearly 9 tons of CO2 per day compared to the base (existing and committed projects) case.

These results demonstrate that the transportation sector is expected to continue making positive progress in contributing to the achievement of GHG reduction targets consistent with the requirements of the GWSA. MassDOT and the MPOs will continue to advocate for steps needed to accomplish the Commonwealth's long-term goals for greenhouse gas reductions.



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# Appendix

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## Public Comments Submitted - 21-day comment period

First name	Last name	Email	Comment submitted	Submit Date (UTC)
Sam	Webb	sjwebb@massart.edu	Bicycle infrastructure is essential for Berkshire County. Sheffield has an opportunity to be the pioneers in promoting alternative transportation, serving the greater good of the community. Let's capitalize on this moment.	2023-07-14 01:26:30
Rene	Wood	rwood@sheffieldma.gov	This is a good plan. I would like to see the amount of funding increased for non-motorized transportation options, such as biking and walking, with ADA accessibility. I like many of the practical, low cost and yet effective plans, such as the synchronization of lights on major routes, such as Route 7. I would hope this will also involve the part of the important routes that are controlled by individual towns, such as Great Barrington.	2023-07-13 20:31:23
Peter	Traub	phtraub@nycap.rr.com	Thanks to the staff who created this document. There is a tremendous amount of information documented. I would like to see what has been accomplished since the last document was submitted. Some of the proposed actions are in the millions or billions of dollars. What are the proposed actions to secure these funds?	2023-07-13 15:57:51
Phyllis	Webb	phyllis@magicfluke.com	As a member of a family and large social circle interested in cycling safely as an alternative to driving, please add my enthusiastic support for the multi-use path connecting Sheffield and Great Barrington. I would love to be able to bike up to Great Barrington to shop, dine and take advantage of many of the cultural events happening locally however, there is not a safe route for cycling. Knowing the interest in walking and cycling, a path like this would get a huge amount of use enhancing economic development bringing more and more customers to our small local businesses in the southern Berkshires: inns, eateries, retail establishments. This is a win win for our greater Berkshire community and beyond! Thank you!	2023-07-13 01:50:09
Dale	Webb	dale@magicfluke.com	Utilizing the existing rail corridor for a bike/walk path would be a huge benefit for south county. This area is already a destination for cyclists and adding a designated north/south bike way would be a great asset to the community as well as enhancing safe non motorized travel.	2023-07-13 01:19:07
Sam	Haupt	sammyrna@aol.com	<p>The region needs to aggressively pursue the implementation of east-west passenger rail service utilizing the old B&amp;A right of way from South Station to Rensselaer, NY. This includes marshalling the political will necessary to engage CSX in pursuit of agreements to restore rail infrastructure.</p> <p>Local road infrastructure funding opportunities need to be expanded particularly for rural communities as climate change drives more destructive weather events and improvements are limited due to fiscal constraints.</p> <p>Planners should still consider the lack of access to the Interstate Highway System to the central Berkshires as an inhibitor of economic revitalization and contributor to decades of population loss resulting in the other negative impacts of business contraction.</p>	2023-07-12 16:41:08



Ben	Webb	benjaminparkerwebb@gmail.com	A bike path along the Route 7 corridor would be a huge step forward for Berkshire country. As north county has begun development, it's important to demonstrate the intention of completion and commitment by south county. Sheffield specifically sees major traffic because of its central location. This means traveling motorists share the road with large groups of touring cyclists. Most importantly however is the commuting population that is squeezed south into Connecticut due to rising rent prices in the Berkshires. Bike commuting is out of the question in the winter because of snowy, salty banks that take away the shoulders, (road maintenance doesn't completely consider the needs of the cyclist). Even in the warmer weather, it means risking ones life every time one of the hundreds of vehicles pass with increasingly distracted drivers as the Insurance Institute for Highway Safety reports. For the safety of our earth loving cyclists, let there be a bike lane. As more people commit to cycling, road maintenance and infrastructure costs will fall, which is why it should be a major emphasis of this plan.	2023-07-06 16:13:59
Julia	Kreilkamp	julia.kreilkamp@gmail.com	I support the recommendation to build a multi-use path between Sheffield and Great Barrington! The more we do to decrease the number of cars on the road, and to encourage outdoor recreation, the better.	2023-07-01 11:06:25
Josh	Webb	joshwebb13@gmail.com	Berkshire county is really lacking in cycling infrastructure, and a path between Sheffield and Great Barrington is a great place to start. I know lots of people who don't ride bicycles simply because they don't want to contend with automobile traffic, and so they are forced to drive their cars more, which worsens the traffic problem! I have just opened a bike shop in Sheffield, and I have difficulty recommending local routes because there is no protected bike lane yet.	2023-06-29 21:36:47
Brittany	Ebeling	britt.ebeling@gmail.com	I am extremely enthusiastic about the recommendation to construct a multi-use active transportation path linking Sheffield center with Great Barrington center. The proposed route would not only promote safe cycling, walking, and other forms of active transport between the two towns, it would also support local businesses and encourage ecologically sound forms of transportation. I am a young person living and working in Sheffield, and the prospect of a safe cycling pathway from my home in the center of Sheffield to Great Barrington makes me want to stay long-term in the Berkshires. I feel other young people in my community who are interested in recreation on multi-use paths as well as safe commuting options feel the same.	2023-06-29 20:10:50

# Transportation Community Survey Results Data

## What town do you LIVE in?

Answer Choices	Responses	
Adams	2.22%	8
Alford	1.67%	6
Becket	1.11%	4
Cheshire	3.06%	11
Clarksburg	1.94%	7
Dalton	2.50%	9
Egremont	1.94%	7
Florida	0.56%	2
Great Barrington	3.61%	13
Hancock	0.00%	0
Hinsdale	1.11%	4
Lanesborough	1.39%	5
Lee	3.33%	12
Lenox	5.83%	21
Monterey	0.56%	2
Mount Washington	0.28%	1
New Ashford	0.00%	0
New Marlborough	0.56%	2
North Adams	14.17%	51
Otis	0.00%	0
Peru	0.28%	1
Pittsfield	33.61%	121
Richmond	1.67%	6
Sandisfield	0.28%	1
Savoy	0.28%	1
Sheffield	3.33%	12
Stockbridge	5.28%	19
Tyringham	0.28%	1
Washington	0.28%	1
West Stockbridge	1.11%	4
Williamstown	3.61%	13
Windsor	0.00%	0
I live outside Berkshire County	4.17%	15
<b>Answered</b>		<b>360</b>
<b>Skipped</b>		<b>4</b>

## What town do you WORK in?

Answer Choices	Responses	
I am not in the workforce	21.57%	77
I work outside Berkshire County	7.84%	28
Adams	0.84%	3
Alford	0.84%	3
Becket	0.00%	0
Cheshire	0.00%	0
Clarksburg	0.56%	2
Dalton	1.96%	7
Egremont	0.00%	0
Florida	0.00%	0
Great Barrington	4.76%	17
Hancock	0.00%	0
Hinsdale	0.00%	0
Lanesborough	0.56%	2
Lee	1.68%	6
Lenox	5.88%	21
Monterey	0.56%	2
Mount Washington	0.00%	0
New Ashford	0.00%	0
New Marlborough	0.00%	0
North Adams	7.56%	27
Otis	0.00%	0
Peru	0.00%	0
Pittsfield	24.65%	88
Richmond	0.28%	1
Sandisfield	0.00%	0
Savoy	0.00%	0
Sheffield	1.96%	7
Stockbridge	9.52%	34
Tyringham	0.00%	0
Washington	0.00%	0
West Stockbridge	0.84%	3
Williamstown	5.60%	20
Windsor	0.00%	0
Work from home	2.52%	9
<b>Answered</b>		<b>357</b>
<b>Skipped</b>		<b>7</b>

## Revised RTP Community Transportation Needs Survey

### What is your age?

Answer Choices	Responses	
Under 18	0.00%	0
18-24	4.17%	15
25-34	14.17%	51
35-44	15.28%	55
45-54	14.44%	52
55-64	21.39%	77
65-74	22.22%	80
75+	8.33%	30
<b>Answered</b>		<b>360</b>
<b>Skipped</b>		<b>4</b>

## Revised RTP Community Transportation Needs Survey

### How many motor vehicles does your household own?

Answer Choices	Responses	
Zero (0)	7.54%	27
One (1)	38.27%	137
Two (2)	39.94%	143
Three or more (3+)	14.25%	51
	<b>Answered</b>	<b>358</b>
	<b>Skipped</b>	<b>6</b>

## Revised RTP Community Transportation Needs Survey

### What is your household income range?

Answer Choices	Responses	
Under \$15,000	4.39%	15
Between \$15,000 and \$29,999	8.19%	28
Between \$30,000 and \$49,999	16.37%	56
Between \$50,000 and \$74,999	15.79%	54
Between \$75,000 and \$99,999	16.08%	55
Between \$100,000 and \$124,999	9.06%	31
Between \$125,000 and \$149,999	11.40%	39
Over \$150,000	18.71%	64
	<b>Answered</b>	<b>342</b>
	<b>Skipped</b>	<b>22</b>

How much do you spend on transportation per month? Please specify the dollar amount for each category below, giving your best estimate. Please round to tens (e.g., 50, 60, 70). Insert a 0 (zero) if you do not spend money on a certain category.

Answer Choices	Average Number	Total Number	Responses	
Car Insurance (per month):	153.875	49240	96.68%	320
Fuel (gas, diesel, electricity) (per month):	170.4813665	54895	97.28%	322
Maintenance (per month):	75.01973684	22806	91.84%	304
Public transportation (per month):	9.618556701	2799	87.92%	291
Rideshare options (Uber, Lyft, local taxi) (per month):	9.421052632	2685	86.10%	285
Other (not specified above) (per month):	28.07981221	5981	64.35%	213
			<b>Answered</b>	<b>331</b>
			<b>Skipped</b>	<b>33</b>

Revised RTP Community Transportation Needs Survey  
**Do you see yourself living in the Berkshires 5 years from now?**

Answer Choices	Responses	
Yes	85.22%	294
No	9.57%	33
Other (please explain)	5.22%	18
	<b>Answered</b>	<b>345</b>
	<b>Skipped</b>	<b>19</b>

Respondent ID	Response Date	Other (please explain)	Tags
118232037337	Jan 30 2023	0 Not sure... thinking of moving	
118230443707	Jan 27 2023	0 Will be moving from Agawam area to Lee	
118230023290	Jan 27 2023	1 Depends where I would be able to get a job	
118229895782	Jan 27 2023	0 Not in the winter	
118220092186	Jan 16 2023	0 unsure	
118210381867	Dec 30 2022	C As long as we can continue to afford to live here	
118209920675	Dec 29 2022	C Maybe	
118209857815	Dec 29 2022	C Depends on what Pittsfield does i.e. improving overall conditions	
118206468704	Dec 21 2022	C I don't know	
118197170648	Dec 09 2022	1 Maybe	
118196315816	Dec 08 2022	1 Unsure	
118195374789	Dec 07 2022	C Maybe if it was possible to be car-free	
118195241255	Dec 07 2022	1 unsure	
118190285196	Dec 01 2022	C need to be near world class hospitals and medical care plus easy to get to shopping	
118178801220	Nov 16 2022	1 Been thinking of moving somewhere down south	
118175914450	Nov 14 2022	C Medical issues may cause a move to Boston.	
118175441639	Nov 13 2022	C Unknown	
118164365338	Nov 01 2022	C Work	

**How do you primarily shop for consumer and retail goods?**  
**Use the slider to show your average shopping habit, between**  
**always ordering online and always going in person:**

Answer Choices	Average Numbe	Total Number	Responses	
(no label)	6.119230769	1591	100.00%	260
		<b>Answered</b>		<b>260</b>
		<b>Skipped</b>		<b>104</b>

## Revised RTP Community Transportation Needs Survey

Where do you see you or your family most likely living in the next stage of your life?

Answer Choices	Responses	
Detached house on a large lot	39.47%	135
Detached house on a small lot	27.78%	95
Multi-family building	17.54%	60
Accessory unit (e.g. "granny flat")	4.68%	16
Other	10.53%	36
	<b>Answered</b>	<b>342</b>
	<b>Skipped</b>	<b>22</b>

## Revised RTP Community Transportation Needs Survey

How would you rank the following factors when thinking about where you want to live, from highest priority to lowest?

	1	2	3	4	Total	Score				
Travel time to/from destinations	23.53%	76	32.51%	105	28.17%	91	15.79%	51	323	2.64
Housing affordability	42.99%	141	26.52%	87	20.73%	68	9.76%	32	328	3.03
Environmental quality/pollution	18.79%	62	22.42%	74	30.61%	101	28.18%	93	330	2.32
Employment opportunity	16.77%	56	17.96%	60	20.06%	67	45.21%	151	334	2.06
									<b>Answered</b>	<b>342</b>
									<b>Skipped</b>	<b>22</b>

## Revised RTP Community Transportation Needs Survey

If large employers in the region offered shuttle services for their employees, how much would you be willing to pay to utilize the service?

Answer Choices	Responses	
Nothing/it should be paid for another way	32.32%	106
Less than a similar BRTA bus fare	22.56%	74
The same as BRTA bus fare	37.50%	123
More than a similar BRTA fare	7.62%	25
	<b>Answered</b>	<b>328</b>
	<b>Skipped</b>	<b>36</b>

## Revised RTP Community Transportation Needs Survey

### How do you generally travel around Berkshire County?

Answer Choices	Responses	
Personal Vehicle (car, truck, van, SUV, motorcycle)	88.06%	295
Carpool	0.30%	1
Get a ride from friends or family	1.49%	5
BRTA Transit	2.99%	10
BRTA Paratransit	0.00%	0
Taxi, Uber, Lyft, or other ride-sharing	0.90%	3
Bicycle	1.79%	6
Walk	3.88%	13
Something else (please specify)	0.60%	2
	<b>Answered</b>	<b>335</b>
	<b>Skipped</b>	<b>29</b>

Respondent ID	Response Date	Something else (please specify)
118236932451	Feb 05 2023	1 I do several things: get rides from friends and neighbors, ride BRTA, ride my bike in warmer weather and sometimes rent a car.
118171463453	Nov 08 2022	0 private car most days, BRTA a few times per week

### What is your average travel time to work? (Use the slider below, and see the result in the white box)

Answer Choices	Average Number	Total Number	Responses	
(no label)	17.21864952	5355	100.00%	311
			<b>Answered</b>	<b>311</b>
			<b>Skipped</b>	<b>53</b>

## Revised RTP Community Transportation Needs Survey

**Did the COVID-19 pandemic impact your commute or transportation options available to you? (Check all that apply; and please elaborate with comments if necessary):**

Answer Choices	Responses
No major impacts	214
I now have more options available	11
Limited my public transportation options	35
I can work virtually/remotely 100% of the time	29
I now travel to the office fewer than 5 days a week	45
I drive more now	28
I no longer can afford to own/drive my personal vehicle	8
(Optional) Tell us more about your answers:	40
<b>Answered</b>	<b>324</b>
<b>Skipped</b>	<b>40</b>

Respondent ID	Response Date	(Optional) Tell us more about your answers:	Tags
118230030842	Jan 30 2023 0	I am retired,not working	
118230460229	Jan 27 2023 0	just moved here	
118230310167	Jan 27 2023 0	Virtual and onsite We went down to 1 car to save money since I work from home, but it left me trapped since there is no public transit near my home and no reliable car service. Taxi service is horrible and has to be booked hours or days in advance and lyft/uber availability is so sporadic they are completely unreliable.	
118230209006	Jan 27 2023 1	worked remotely during the peak of the pandemic	
118230049259	Jan 27 2023 1	pandemic	
118223745211	Jan 19 2023 0	Going through disability	

		I have a personal vehicle. So does my husband. My daughter does not and has to rely on the BRTA which has changed and made her
118210768729	Jan 09 2023	0 commute much more difficult.
118214774000	Jan 07 2023	0 Able to work from home occasionally
118210381867	Dec 30 2022	C COVID severely impacted my business by limiting my on-site appointments
118210348716	Dec 30 2022	C No more Uber/Lyft options. Have to wait long
118210158982	Dec 29 2022	C wait for taxi if they come at all...lack of drivers
118210132142	Dec 29 2022	C I am retired. I am retired but volunteer occasionally and work very occasionally
118210116846	Dec 29 2022	C I retired from one job that was 100% remote and transitioning in early 2022 to two days per week in the office, to a part-time job that is 100% on site.
118209998302	Dec 29 2022	1 I used to travel to and from NYC regularly, once a week. During Covid the bus schedule was reduce to just one bus and the not a few days a week. This reduced my ability to travel to NYC and friends and coworkers can no longer easily come up. This affects my long term plans for living in the area.
118209703210	Dec 28 2022	C I try to walk or run to work as much as possible, weather permitting.
118207675716	Dec 23 2022	C I loved the virtual meetings/visits etc. I hope they will continue. much easier all the way around
118206941379	Dec 22 2022	1 My office started a hybrid work system, allowing me to work from home when I want/am able.
118206468704	Dec 21 2022	C I gave up having a car after it broke down in 2020 and I was able to work from home
118204376633	Dec 19 2022	1 I feel that transportation is still very germ spreading so I now use my car more than taking public transportation in fear of catching something
118204333947	Dec 19 2022	C Took bus off of crane ave in Pittsfield
118201329425	Dec 14 2022	C No public transportation available. Some elder services if scheduled
118199459134	Dec 13 2022	1 I generally walk or bike in agreeable weather.
118198920566	Dec 12 2022	1 I didn't have a car before Covid-19 and I don't own one now,
118197291490	Dec 09 2022	1 Inflation, however, has seriously impacted it.
118196172756	Dec 08 2022	C Retires
118192159564	Dec 03 2022	C Saved me a lot of money on gas due to having to drive less
118184984086	Nov 24 2022	1 COVID forced me into retirement, and to sell my home/business and move; still rely on auto in this rural area
118183997043	Nov 23 2022	C I became a gig worker, delivery services
118178316045	Nov 16 2022	C I primarily walk and use public transit since moving here the buses that run to my
118177673621	Nov 15 2022	1 apartment have been cancelled completely I moved to live closer to my workplace and divide time btwn home and work with about 2-3
118177355616	Nov 15 2022	C days in office
118173864984	Nov 10 2022	C When I looked for a Lyft or Uber more often than not there would be no rides available
118173866545	Nov 10 2022	C I am a driver so still worked regularly
118173679788	Nov 10 2022	C I am semi retired working only 1 to 2 days a week.
118173677208	Nov 10 2022	C Limited intercity transport options with bus and airline shutdowns.
118173480059	Nov 10 2022	1 the gas price hike has doubled my gas expenses as I drive for a living!



118170148979	Nov 07 2022 C	Sold the car and now ride a bicycle mostly As an independent contractor, I work in several Hilltown communities each week. I also volunteer requiring travel. My spouse also works
118167198889	Nov 03 2022 1	and travels to various towns.
118163316017	Oct 31 2022 1	I bike more now. FYI I have a second office in west Springfield
118162436988	Oct 29 2022 1	and there 2 days week.

### Revised RTP Community Transportation Needs Survey

#### How satisfied are you with transportation Maintenance in Berkshire County?

Answer Choices	Responses	
Satisfied	13.85%	45
Neither satisfied nor dissatisfied	46.15%	150
Not satisfied	40.00%	130
	<b>Answered</b>	<b>325</b>
	<b>Skipped</b>	<b>39</b>

### Revised RTP Community Transportation Needs Survey

#### How satisfied are you with transportation Safety and Enforcement in Berkshire County?

Answer Choices	Responses	
Satisfied	18.15%	59
No comment	54.15%	176
Not satisfied	27.69%	90
	<b>Answered</b>	<b>325</b>
	<b>Skipped</b>	<b>39</b>

### Revised RTP Community Transportation Needs Survey

#### How satisfied are you with transportation Accessibility in Berkshire County?

Answer Choices	Responses	
Satisfied	6.46%	21
Meh...	45.23%	147
Not satisfied	48.31%	157
	<b>Answered</b>	<b>325</b>
	<b>Skipped</b>	<b>39</b>

### Revised RTP Community Transportation Needs Survey

#### How satisfied are you with transportation Sustainability in Berkshire County?

Answer Choices	Responses	
Satisfied	6.71%	22
On the fence	44.51%	146
Not satisfied	48.78%	160
	<b>Answered</b>	<b>328</b>
	<b>Skipped</b>	<b>36</b>

## Revised RTP Community Transportation Needs Survey

### How satisfied are you with Active Transportation in Berkshire County?

Answer Choices	Responses	
Satisfied	9.79%	32
I don't know	36.39%	119
Not satisfied	53.82%	176
<b>Answered</b>		<b>327</b>
<b>Skipped</b>		<b>37</b>

## Revised RTP Community Transportation Needs Survey

### How satisfied are you with Transit in Berkshire County?

Answer Choices	Responses	
Satisfied	8.33%	27
Stop asking me these questions...	23.77%	77
Not satisfied	67.90%	220
<b>Answered</b>		<b>324</b>
<b>Skipped</b>		<b>40</b>

## Revised RTP Community Transportation Needs Survey

### How would you rate the overall conditions of the pavement for roads you frequently travel on?

star	Terrible	Poor	Acceptable	Good	Excellent	Total	Weighted Average					
	14.07%	46	34.25%	112	36.09%	118	14.37%	47	1.22%	4	327	2.54
						<b>Answered</b>	<b>327</b>					<b>327</b>
						<b>Skipped</b>						<b>37</b>

## Revised RTP Community Transportation Needs Survey

### How would you rate the overall conditions of the signs and striping on roads you frequently travel on?

star	Terrible	Poor	Acceptable	Good	Excellent	Total	Weighted Average					
	7.93%	26	25.61%	84	48.17%	158	16.16%	53	2.13%	7	328	2.79
						<b>Answered</b>	<b>328</b>					<b>328</b>
						<b>Skipped</b>						<b>36</b>

## Transportation challenges are common in Berkshire County. Please rate the significance of each of the following transportation challenges:

Column1	I don't experience this challenge	Column2	Minor Challenge	Column3	Major Challenge	Column4	Total
Lack of bike paths/bike lanes prevent me from biking more	49.36%	155	16.88%	53	33.76%	106	314
Sidewalk condition/availability prevent me from walking more	31.86%	101	35.96%	114	32.18%	102	317
BRTA bus not available when I need it	56.91%	177	14.15%	44	28.94%	90	311
BRTA bus not available where I need it	53.85%	168	17.95%	56	28.21%	88	312
Having my opinion be heard when transportation decisions are made by local leaders	41.80%	130	30.87%	96	27.33%	85	311
Finding affordable transportation options	54.34%	169	22.51%	70	23.15%	72	311
Finding transportation options for seniors or disabled individuals	62.38%	194	14.47%	45	23.15%	72	311
Understanding which BRTA routes will take me to my destination, or get me close enough	54.02%	168	23.15%	72	22.83%	71	311
Traveling to events/venues such as Tangelwood, Mass MoCA, The Clark, etc.	52.41%	163	26.37%	82	21.22%	66	311
Finding information on transportation options	44.81%	138	35.06%	108	20.13%	62	308
Traveling to areas of open space or parks – for hiking, boating, relaxing, etc.	64.44%	203	21.59%	68	13.97%	44	315
Traveling to and from medical appointments, doctor's office, etc.	65.92%	205	20.90%	65	13.18%	41	311
Traveling to and from work	68.28%	211	21.36%	66	10.36%	32	309
I rely on friends/family for transportation, but wish I had other options	78.25%	241	12.01%	37	9.74%	30	308
Traveling to and from the supermarket, Post Office, etc.	68.05%	213	22.36%	70	9.58%	30	313
Lack of reliable personal vehicle	85.08%	268	6.67%	21	8.25%	26	315
My age or health conditions discourage me from driving	85.44%	264	10.03%	31	4.53%	14	309
Tell us more if you'd like:							94
						<b>Answered</b>	<b>319</b>
						<b>Skipped</b>	<b>45</b>

Respondent ID	Response Date	Tell us more if you'd like:	Tags
118236932451	Feb 05 2023 10:51 AM	I would like to see B buses run more frequently, though I realize that ridership might need to be higher to make this happen. Too bad more people don't take the bus!	
118229920270	Jan 27 2023 05:27 PM	I have my own vehicle, so getting around Berkshire county is easy for me. I have known people without vehicles and it is very challenging for them.	
118230384751	Jan 27 2023 04:58 PM	Need a bike path so badly for many reasons between Lee and Pittsfield bike path and between Lee and great Barrington	
118230310167	Jan 27 2023 03:08 PM	There is no reasonable transportation to major airports.	
118225749900	Jan 23 2023 10:44 AM	The area needs an integrated system of bike and walking paths not necessarily tied to motor vehicle highways; and non-polluting electric mass transportation to replace diesel buses, including transportation to and from schools.	
118223519157	Jan 19 2023 02:41 PM	No Sunday bus is sad. Bus once an hour is hard. Taking multiple busses to even the next town...major time problem. No EXPRESS/direct rt bus so a ten minute trip(by car) can take up to an hour or a big employer 2 towns away can take OVER 2 hours!	
118223481921	Jan 19 2023 01:52 PM	Very hard to get to work with bus routes, takes over an hour sometimes for a 10 min ride by car. Also no bus on weekends makes it very hard to hold a job especially since most jobs these days, you are required to work weekends.	
118221446252	Jan 17 2023 11:06 AM	Although I do not personally struggle with personal transportation accessibility, I have worked with many, many people who are held back from professional opportunities, extra shifts, and higher paying opportunities (ie: working at a fine dining Lenox restaurant vs. a Pittsfield restaurant due to public transportation schedule limitations), etc. I am lucky to have reliable personal transportation, but I have seen many, many people in the service/hospitality industry struggle due to limitations in the existing bus schedules.	
118220237073	Jan 15 2023 10:23 PM	Rotary are unsafe. Let bikes rude on sidewalks where no people use that sidewalk. Better serviceti nyc from berkshires. More lights - crosswalks are dangerous	
118218566496	Jan 13 2023 04:43 AM	It is nearly impossible to find a way to get to Northampton from Pittsfield without a car.	
118215709605	Jan 09 2023 03:02 PM	I don't rely on the BRTA bus, but I would like to be travelling more sustainably, so if there were more places the bus would stop, or more routes, that would perhaps encourage ridership. The real challenge I have is that BRTA doesn't have all that many defined bus stops, so riders just stand dangerously in/on the side of major roads which is not conducive to car traffic.	
118210768729	Jan 09 2023 02:20 PM	The BRTA cut routes and made it very difficult for my daughters (one who lives at home and one out on her own with no vehicle) to get to and from work. It has been very frustrating for them and for me since I often give them rides, especially in bad weather.	
118214634028	Jan 07 2023 09:10 AM	While these things are not a challenge for me they are a significant challenge for people I know especially young people. I teach at a local college and the limited transportation affect students perceptions of the Berkshires because they cannot move around the region, accept internships that require transportation. I'm hoping that the survey can collect this info.	
118212345727	Jan 04 2023 06:00 AM	I have been a Wheels for Wellness volunteer, and Al I know is that demand far exceeds supply getting our elders to medical appointments. It's a serious need!	
118210992931	Jan 01 2023 10:55 AM	East Street road condition is unacceptable. The Holmes Road bridge delay is unacceptable. Both of these projects have remained unaddressed for far too long!	
118210814819	Dec 31 2022 02:48 PM	Travel from home to airport/train/bus not available. Zero transportation in Sandisfield except for personal car. No trains in South County and no transportation to Wassauc train from South County.	
118210390781	Dec 30 2022 09:42 AM	I want a shuttle to the Wassauc train station (Monday-Thursday) that stops in Sheffield.	
118210381867	Dec 30 2022 09:19 AM	Too much traffic congestion in Great Barrington	

### Revised RTP Community Transportation Needs Survey

**What is the best way for our organization to engage you to be a part of transportation decision making in the region? (Check all that apply):**

Answer Choices	Responses
I'm not interested in transportation updates	7.03% 22
Social Media (BRPC Facebook)	38.66% 121
BRPC Monthly Newsletter (Common Ground Newsletter)	28.75% 90
BRPC Webpage Announcements (BRPC Calendar and Metropolitan Press Release or News Article (Berkshire Eagle)	15.97% 50
Via Email	50.16% 157
Other (please specify)	45.69% 143
	5.43% 17
	<b>Answered 313</b>
	<b>Skipped 51</b>

Respondent ID	Response Date	Other (please specify)	Tags
118233515705	Feb 01 2023	0 text messages	
118210151164	Dec 29 2022	C Surveys, like this one Direct outreach at public gatherings. Giving presentations to community groups. Working	
118209998302	Dec 29 2022	1 with groups on joint projects etc	
118209929265	Dec 29 2022	C Community Forums in multiple languages	
118209738958	Dec 28 2022	1 information in Eagle	
118206520512	Dec 21 2022	C Cross post to Instagram	
118196315816	Dec 08 2022	C Partner organizations (I heard about this via BEAT news)	
118195260063	Dec 07 2022	1 through city channels like their social media	
118195241255	Dec 07 2022	1 NOT social media. Not for me, no no no. staffed presence at local events, e.g. festivals where I could learn about the transit current	
118190583351	Dec 01 2022	C and future plans and have the opportunity to talk to a real person.	
118188438802	Nov 29 2022	C Town news letters	
118177673621	Nov 15 2022	1 please consider a regularly updated Twitter account or some other social media as well!	
118173677208	Nov 10 2022	C Billboards, flyers, posters, and in-person community outreach.	
118173588252	Nov 10 2022	1 Since North Adams has no newspaper, a working, current website would be wonderful.	
118171506245	Nov 08 2022	C WUPE	
118169099611	Nov 05 2022	C Get my news from BBPC	
118166132040	Nov 02 2022	C Mobile text	

Revised RTP Community Transportation Needs Survey

Are there changes to the transportation system or new services that would make traveling around the county easier? (Check all that apply):

Answer Choices	Responses	Column1
More rideshare services (taxi, Uber, and Lyft)	49.03%	151
BRTA: increased bus frequency	40.26%	124
BRTA: bus service that connects with other transit systems (PVTA, ...)	40.26%	124
BRTA: increased weekend bus service	38.31%	118
BRTA: increased evening bus service	37.99%	117
Other (please specify)	26.95%	83
More car share options (e.g. Zipcar)	24.35%	75
Access to bikeshare	23.70%	73
Carpooling assistance	13.96%	43
None of the above	12.66%	39
	<b>Answered</b>	<b>308</b>
	<b>Skipped</b>	<b>56</b>

Respondent ID	Response Date	Other (please specify)	Tags
118232037337	Jan 30 2023 02	More bike paths, with affordable options for ebike rentals	
118230466741	Jan 27 2023 07	I don't know enough to make an informed opinion	
118229920270	Jan 27 2023 05	Bike lanes!!!	
118230384751	Jan 27 2023 04	Trains service and bike paths	
118230310167	Jan 27 2023 03	Train Service (that helps LOCALS get out of the area especially on weekends and to NYC/Boston, not just	
118230209006	Jan 27 2023 01	tourists coming to the Berkshires...)	
118225749900	Jan 23 2023 10	walking paths, bike paths and electric mass transit	
118220237073	Jan 15 2023 10	Shuttle bus to tanglewood	
118215713267	Jan 09 2023 03	Uber/Lyft options	
118215709605	Jan 09 2023 03	A train that runs between Pittsfield and North Adams!	
118214634028	Jan 07 2023 09	transportation for young people to get to after school programming	
118212345727	Jan 04 2023 06	Could medical facilities provide more transport vans for those who need them?	
118210497071	Dec 30 2022 02	EV charging stations	
118210381867	Dec 30 2022 02	Better traffic control, improved intersections, lights instead of stop signs	
118210354614	Dec 30 2022 01	Light rail	
118210352214	Dec 30 2022 01	Public transport to Amtrak station in Rensselaer/albany	
118210148870	Dec 29 2022 05	Improve the roads!	
118210169249	Dec 29 2022 06	Better bike paths/lanes all throughout the county	
118210132142	Dec 29 2022 06	BRTA Bus going to Becket	
118210121368	Dec 29 2022 06	Stop lowering speed limits and taking away passing lanes	
118210116846	Dec 29 2022 06	PASSENGER RAIL	
118210114374	Dec 29 2022 06	Town, County maintenance of our "private road" in Alford	
118210092744	Dec 29 2022 06	Direct bus to wassaic and/or Hudson	
118210063121	Dec 29 2022 07	None of these questions address the inadequacy of capacity and maintenance	
118210014231	Dec 29 2022 07	Senior-friendly taxi type rides	
118209998302	Dec 29 2022 12	Daily multiple bus/train options from North Adams/Williamstown to NYC.	
118209993716	Dec 29 2022 12	Rail service to Boston and Nee York	

Revised RTP Community Transportation Needs Survey

Please rank these regional budget priorities in order of what matters most to you.

Column1	1	Column2	2	Column3	3	Column4	4	Column5	5	Column6	6	Column7	7	Column8	8	Column9	Total	Score
Improve public transit	28.82%	83	14.24%	41	13.54%	39	10.42%	30	13.89%	40	7.64%	22	6.25%	18	5.21%	15	288	5.6
Maintain what we have	25.00%	71	17.25%	49	14.08%	40	13.38%	38	10.92%	31	5.28%	15	8.10%	23	5.99%	17	284	5.54
Improve safety for all users	11.62%	33	19.72%	56	17.25%	49	19.37%	55	13.03%	37	10.92%	31	5.99%	17	2.11%	6	284	5.3
Improve bike/pedestrian facilities	17.93%	52	19.66%	57	15.52%	45	9.66%	28	10.69%	31	5.86%	17	9.31%	27	11.38%	33	290	5.13
Enhance existing network with technology	4.76%	13	10.62%	29	9.89%	27	16.85%	46	15.38%	42	17.95%	49	15.75%	43	8.79%	24	273	4.12
Build new roads or widen roads	13.82%	38	9.09%	25	10.91%	30	8.00%	22	6.55%	18	9.09%	25	13.82%	38	28.73%	79	275	3.89
Improve streetscape appearance	2.54%	7	6.52%	18	12.32%	34	13.04%	36	14.49%	40	21.74%	60	17.39%	48	11.96%	33	276	3.75
Move freight more efficiently	1.46%	4	6.20%	17	8.76%	24	9.85%	27	14.23%	39	18.61%	51	19.34%	53	21.53%	59	274	3.3
																	Answered	307
																	Skipped	57

Revised RTP Community Transportation Needs Survey  
 How do you currently utilize the Berkshires' public transit system?

Answer Choices	Responses	Column1
I very rarely/never use the public transit system	71.67%	215
We have a public transit system?	12.67%	38
My secondary option if my primary mode is unavailable	8.67%	26
Use occasionally as an alternative choice to get around	3.67%	11
My primary mode of daily transportation	3.33%	10
	<b>Answered</b>	<b>300</b>
	<b>Skipped</b>	<b>64</b>

Revised RTP Community Transportation Needs Survey  
 Are there updates to the BRTA system that would make you more likely to use or continue to use public transit?  
 Please choose up to THREE (3):

Answer Choices	Responses	Column1
Serving areas outside Berkshire County (such as service to Northam	41.69%	128
Reaching more areas within Berkshire County	40.07%	123
No updates will make me more likely to ride public transit.	26.06%	80
More frequent bus departures and arrivals	25.08%	77
Earlier or later operating hours	18.24%	56
"Flexible" service that is booked on demand	17.26%	53
Faster travel times	15.64%	48
Sunday bus service	11.73%	36
More covered bus shelters	8.79%	27
Reduced/free bus fares	8.79%	27
The BRTA system already works fine for me	1.30%	4
	<b>Answered</b>	<b>307</b>
	<b>Skipped</b>	<b>57</b>

Revised RTP Community Transportation Needs Survey  
**How likely would you be to use a passenger rail connection to travel to Springfield, Boston, NYC, or some other northeastern destination? (Check one):**

Answer Choices	Responses
If the connection exists, I'd use passenger rail to get to my destination	79.40% 239
I am unlikely to use rail in the future to travel to a destination (either I	5.32% 16
I'm unsure if I would use a passenger rail connection in the future	9.63% 29
Other (please specify)	5.65% 17

**Answered 301**  
**Skipped 63**

Respondent ID	Response Date	Other (please specify)	Tags
118211413247	Jan 02 2023 0	I love the trains	
118210354614	Dec 30 2022 C	Please make this happen.	
118210114374	Dec 29 2022 C	Commuter rail to Great Barrington would be excellent!	
118209993716	Dec 29 2022 1	Hugely important to future of Berkshire county Boston yes, NYC is for the rich tourists and should not be subsidized. But most of us only have healthcare good in Mass and if we need to get to BayState or a Boston hospital, getting down and back in one day would be great. The train should connect Boston to Albany, via Pittsfield. It is so challenging to fly from Boston to Albany, the train could create that connection. to boston is my top priority as it is not comfortable to drive to boston and I can get to NY Dec 29 2022 C via Metro North at Waissaic	
118209971466	Dec 29 2022 1		
118209929265	Dec 29 2022 C		
118207675716	Dec 23 2022 C		
118204347272	Dec 19 2022 1	We are in desperate need of transportation to these hubs and ALB	
118200890784	Dec 14 2022 C	Depends on the purpose - for a quick work trip, yes. For leisure, no. If the connection exists, I'd use passenger rail to get to my destination (either leisure or Dec 12 2022 C work) - AND we need to fight every step of the way for true west-east rail.	
118198783933	Dec 07 2022 1	yes! more trains!!!	
118195241255	Dec 01 2022 C	when I can't drive the 3 1/2 hrs from NYC to Stockbridge any more	
118190285196			
118177355616	Nov 15 2022 C	I wish there was service leaving Pittsfield on a Friday at multiple times or Thursday night	
118173733379	Nov 10 2022 C	or Friday morning to NYC or Boston and returning Sunday night or Monday morning.	
118173679788	Nov 10 2022 C	I already travel by train sometimes.	
118173588252	Nov 10 2022 1	Rail would use it a lot	
118160239998	Nov 10 2022 1	Rail is always my preferred mode	
	Oct 26 2022 1	Yes! Absolutely! All the time!	

Revised RTP Community Transportation Needs Survey  
Please add any additional comments about transit in Berkshire County.

Answered 94

Skipped 270

Respondent ID	Response Date	Responses
11823693245	Feb 05 2023 1	I use public transport as my primary mode of moving around Berkshire County. It works but I often wish there were buses on Sunday, earlier and later buses on Saturday and some routes. Very nice and helpful drivers and people in the office!
11823203733	Jan 30 2023 0	We are sorely lacking in affordable transportation options for young people and low-income people, who don't own a car, to be able to ever get to a job
11823165486	Jan 30 2023 0	No comments
11823083391	Jan 28 2023 0	strong wish for connection service from berkshires to NYC, BOS and ALBANY
11823038475	Jan 27 2023 0	Trains are the way to go, and more bike paths separate from roadways
		<b>FIX THE HOLMES ROAD BRIDGE!!</b> It's been over 3 years and I feel incredibly unsafe traveling over it every single day.
		The new North Street is a hot mess. Lanes end abruptly without warning and I'm constantly in fear of getting side swiped. And the bike lanes have made it so chaotic with how poorly laid out they are and that no one using them is educated on city biking and the related traffic laws that apply to biking.
		I want more sidewalks and bike lanes, but they need to be added thoughtfully and with consideration for not disrupting traffic or increasing the risk of accidents.
11823020900	Jan 27 2023 0	accidents.
11822574990	Jan 23 2023 1	Rail connections to regional airports such as Albany, NY and Hartford, CT would be a very useful service.
11822374521	Jan 19 2023 0	Should be free
11822351915	Jan 19 2023 0	N/A
11822009218	Jan 16 2023 0	More passenger rail service would be nice--also BRTA transportation from the train station to other towns
11822023707	Jan 15 2023 1	Traffic lights- not rotary. More roads with reflectors built into roadways double line.
		Increased railway access to Pittsfield is a MUST! We want to go places too, not just invite New Yorkers to infest the city in the summer. I would take high-speed rail to Boston all the time if it were an option ... and it would probably make it easier for Boston to care about Western Mass if we had that too.
11821570960	Jan 09 2023 0	These comments are for my daughter, not for me.
11821076872	Jan 09 2023 0	Amtrak prices can be very high - sometimes more than a flight!
11821103636	Jan 01 2023 0	Amtrak prices can be very high - sometimes more than a flight!
		These bike lanes around the city are very rarely used and has created narrow dangerous road access conditions. It has been the worst idea applied to this city.
11821099293	Jan 01 2023 1	this city.
11821097528	Jan 01 2023 0	North Berkshire is an hour from an interstate in any direction; can't help that. Reliable transport within the county would be a real improvement.
11821081481	Dec 31 2022 0	No BRTA service to Sandisfield; we are marooned
11821076209	Dec 31 2022 1	Uber and Lyft are extremely unreliable and have caused me to miss appointments because of no show drivers at the last minute
11821049922	Dec 30 2022 0	Add frequent passenger fasts rail to Boston! and consider Amherst as well.
		I would most like to see shuttles available to Albany Airport and Bradley airport in Hartford. The cost of a one way ride has gotten exorbitant. Some
11821041729	Dec 30 2022 1	people are charging \$125 - \$175 one way for a ride to the airport.
11821035221	Dec 30 2022 0	Public transportation to Amtrak Albany, Wassatic NY train station, Bradley airport
11821035461	Dec 30 2022 0	Use FTA (CIG) and FRA grants



11821034871{ Dec 30 2022 0Frequent travel times  
11821016924{ Dec 29 2022 0I would use the railway all the time! Please make this a priority -- again, I really don't want to have to own a car to live here.  
11821015116{ Dec 29 2022 0Have you ever been on a bus with stained seats?  
11821013214{ Dec 29 2022 0Might use the train to visit Boston and return. Would definitely utilize a Bus if routed to Becket via Lee or Pittsfield. No interest in NYC  
11821009303{ Dec 29 2022 0A train from NYC to Berkshire County would be great!  
11821009274{ Dec 29 2022 0Improve the roads so traffic will flow more smoothly  
11821006312{ Dec 29 2022 0That's it for rail questions?  
11821001423{ Dec 29 2022 0Improving Publix transport for seniors going to Springfield and Boston is strongly needed!  
11821000378{ Dec 29 2022 1Why not put a bill change machine in bus station. NO ONE will make change. Also exactly what do people in glass booth do? WORTHLESS.

11820999830{ Dec 29 2022 1More public transportation, more frequent, earlier/later, and on weekends. Work to bring multiple daily buses back to the Williamstown to NYC route.  
11820999371{ Dec 29 2022 1Restore regular passenger rail service to great Barrington, Pittsfield, Stockbridge, Lenox.  
11820997796{ Dec 29 2022 1Would love improved rail service

We need to eliminate the redesign through downtown Pittsfield which eliminated 25% of lane capacity and now chokes all n/s traffic for a good part of the day. We need better traffic signalization that prioritizes busy main roads and discourages "short cutting" over side streets. Better public transit to allow folks to get to jobs if they don't have cars - or more affordable housing in towns outside of Pittsfield so folks can work closer to their homes. That's why Pittsfield is declining - the only folks who choose to live here now are those who can't afford to live elsewhere - concentrating all of the issues here - even though those folks come from the entire region. It's all tied together. I need my trucks for my work - but even if I didn't own 3 trucks and a car, I'd own at least a vehicle since I value my independence.

11820997146{ Dec 29 2022 1Need rail service to all towns from NYC & Boston get buses off roads!  
11820993457{ Dec 29 2022 0In addition to increasing public transportation within Berkshire County, I feel the connection to other cities like Boston and NYC are crucial.  
11820993223{ Dec 29 2022 0Berkshire County needs a better and more frequently available public transportation system that not only connects cities and town within the county, but has points of access to get to other public transportation systems that would connect us to other states and cities. We should make it easier to get to Albany, Springfield, Greenfield, NYC trains, and beyond.

11820992926{ Dec 29 2022 0We also need a local bus system that is 7 days a week and comes more frequently than once an hour.  
11820988721{ Dec 29 2022 0This would be a major plus to transportation in the region.  
11820988205{ Dec 29 2022 0Expanding BRTA to reach passenger rail stations in Wassauc and Hudson would be extremely useful to me.  
11820986077{ Dec 29 2022 0More extensive use of rail service  
11820985415{ Dec 29 2022 0Bring back trains to serve Berkshire residents!  
Our workforce is in DIRE need for better and available transportation to work. How can the Berkshires exist without housing AND transportation for our workforce?  
Secondly, our seniors require and should have affordable or free transportation to medical services.  
We need services that the BRTA can't serve as the Berkshires is more rural, spread out, that can be serviced by designated bus stops.

11820974255{ Dec 28 2022 1  
I think it's insane that we started a rail line to cater to New Yorkers, so that the can come to the Berkshires on weekends, but no options for US to travel to NYC on weekends!! Absolutely ridiculous.  
My primary interest is in new bike paths. But I would LOVE to be able to take a train to Boston. That seems like such a fantasy to me that I don't think it will ever happen.

11820970321{ Dec 28 2022 0PLEASE INVEST IN THE TRAIN TO EASTERN MASSI HATE THE PIKE SO MUCH  
11820968875{ Dec 28 2022 0PLEASE INVEST IN THE TRAIN TO EASTERN MASSI HATE THE PIKE SO MUCH

it is expensive and I don't believe worth it where the ridership is not available (BRTA). we should explore more on demand and services like Great Barrington is trying to get going. We need usable rail - which means schedules that work for commuters and those who wish to be in Boston for normal business hours.

Dec 23 2022 0 I think improving bus operations is important, just not likely that I'll use it. I have a secure vehicle, travel demands, and kids to juggle.  
Dec 22 2022 1  
Dec 21 2022 0 Covid has limited my willingness to use public transportation.

Only have designated stops and pick ups this pull the string whenever you want to get off the bus is for the birds the flag down system is not safe for the passenger or driver especially in winter and night time just have designated stops and pick up with shelters or sign that states this is where you pick up the bus just like any other city or county does! The flag down service is so unsafe even for other vehicles on the road

Dec 19 2022 1 Veterans Memorial Bridge in North Adams needs to come down before it falls down. Terrible design and eyesore. Remove and reroute please. Get it on the TIP please.

Dec 19 2022 1  
Dec 18 2022 0 Need bike paths off the main roads that run the entire length of the county. Need a more robust rail system to access New York and Boston  
More frequent service and extended hours for BRTA.

Dec 13 2022 1 More regular commuter rail service rather than just once a day.

Dec 09 2022 1 Cater less to the tourists and second home owners and more to the people living and working in the Berkshires.

I would absolutely use a train to Boston or Albany and would choose it over driving. That would be a huge gamechanger. Service to NYC would be a dream come true and a huge boost for our region.

Dec 08 2022 0  
Dec 07 2022 0 I wish there was a shuttle from Hudson Amtrak station or Wassauc MNR station. And we need more frequent Peter Pan buses to and from NYC

I would love to come visit Berkshire County but I live in Boston without a car! Please advocate for more rail service & bike infrastructure. Let me come visit!

Dec 07 2022 0 I would take the public transportation more to reduce the amount of fossil fuels I use with my car. I am concerned with climate change but feel there's little alternative for Berkshire residents to alter their emission when it comes to transportation. I would take public transit if it was improved. I would love to take the bus outside of the area too such as Albany or Noho.

Dec 07 2022 1 De-emphasizing the use of personal vehicles for most travel is crucial to reducing carbon emissions as well as automobile related accidents & deaths.

Dec 03 2022 0 Plus owning a car is very expensive for most people, including me

Dec 02 2022 0 We need rail service to major cities!

Dec 01 2022 0 Earlier this year I broke my kneecap and couldn't drive for over a month. Having to impose on friends to take me to doctor's appointments was difficult.  
Dec 01 2022 0 An on-demand service of some type would have been handy... more personal than Uber.

Dec 01 2022 0 Please strengthen passenger rail!

Dec 01 2022 0 I could leave my car here and just use the trains to commute

Nov 30 2022 0 Rail travel to Albany would allow for both work and easier access to NYC/Montreal and points west

Nov 29 2022 0 I would utilize transportation to Albany or NYC for doctor appointments

Nov 29 2022 1 Routes, times, departure and arrival locations distributed to residents via email would be very helpful.

Nov 29 2022 1 none

Nov 23 2022 0 Yes please!!

Berkshire County deserves to have a less car focused, more people focused infrastructure system. I want to see people walking and biking everywhere  
Nov 17 2022 0 a more common sight.

Nov 16 2022 0 Reopening the existing passenger rail lines to and from NYC/Boston, and between Berkshire towns would be HUGE

I wish there were easier ways to find other people -- like a FB page or Meetup group -- so that if more than one person wanted to go to an event or park etc. you could find those people and carpool and keep track of when you drove vs. other people drove so that you would earn points or something so that you could encourage carpooling and points could be used at local stores to keep the money in the local economy and it would reward Berkshire residents  
Nov 15 2022 0 for reducing solo car travel which more easily damages roads, increases negative climate change impacts, etc.

Despite the fact that the corporate media constantly publishes stories claiming that there is a CO2-caused climate change, the fact is that there is not. Many climatologists have refuted this claim and have pointed out the flaws in the mathematical models that predict climate disasters. So while it's great to increase vehicle efficiency, gas- and diesel-powered cars should continue to be part of the transportation mix.

Lee and Great Barrington can be real choke-holds but I do not see an easy answer.

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Revised RTP Community Transportation Needs Survey  
 Which of the following active transportation investments do you think would be most beneficial to Berkshire County? Please rank them from most to least beneficial in your opinion:

Column1	1	Column2	2	Column3	3	Column4	4	Column5	Total	Score
Repair and build new sidewalks along town roads	40.56%	116	24.83%	71	18.18%	52	16.43%	47	286	2.9
Expand the Ashwiltticook Rail Trail to downtown North Adams and	28.31%	77	26.10%	71	25.00%	68	20.59%	56	272	2.62
Build Berkshire Bike Path trail segments in south Berkshire County (l	19.00%	53	29.75%	83	26.52%	74	24.73%	69	279	2.43
Install more on-road bike lanes on applicable streets	15.75%	43	18.68%	51	28.57%	78	37.00%	101	273	2.13
									<b>Answered</b>	<b>293</b>
									<b>Skipped</b>	<b>71</b>

Revised RTP Community Transportation Needs Survey  
 Do you support investing in a public bike-share system in your town?

Answer Choices	Responses	Column1
Yes, but I would not use it	30.54%	91
Yes, and I might occasionally use it	27.18%	81
No	23.49%	70
Yes, and I would likely use it	18.79%	56
	<b>Answered</b>	<b>298</b>
	<b>Skipped</b>	<b>66</b>

Revised RTP Community Transportation Needs Survey  
 Please add any additional comments about active transportation in Berkshire County.

Answered 68

Skipped 296

Respondent ID	Response Date	Responses
11823693245	Feb 05 2023	1 Bike share is a good idea but I have used the bikes in other cities and they are cumbersome and heavy. While I realize that they may need to be like this to stand the heavy use that comes with bike sharing, I found riding them a drag and wouldn't want to ride one to work or on a leisure ride.
11823203733	Jan 30 2023	0 I would like to bike more, but I live off of a busy road with no bike lane and no sidewalks (south end of Holmes Road)
11822992027	Jan 30 2023	0 I have an electric bike that I would 100% use to travel from my home in West Pittsfield to my job in Stockbridge. There are not any safe options where I can ride. I have to take narrow roads like Barker, Swamp and Richmond Mountain. Or Route 7. Please have more bikeable roads!
11823165486	Jan 30 2023	0 No comments
11823038475	Jan 27 2023	0 Trains! Bike paths! Corporate shuttles for employees
11822574990	Jan 23 2023	1 Seek to develop more pedestrian ways and bike ways not combined with powered high speed vehicle travel. It would be a safer alternative to bike lanes which are unprotected from high speed vehicles,
11822181727	Jan 17 2023	0 Would these be motorized bikes? Do they have lights?
11822144625	Jan 17 2023	1 County-wide contiguous, dedicated bike path PLEASE!!!!
11822009218	Jan 16 2023	0 Bike sharing does not make sense for half of the year--put money into improving public transit
11822023707	Jan 15 2023	1 Berkshires is too hilly for bikes as transportation. Build bike paths for recreational use.
11821722367	Jan 11 2023	1 If dedicated bike lanes were added throughout the main county roads, it would enable more folks to bike to work throughout the year
11821076872	Jan 09 2023	0 Not sure if I am for or against. Would have to see some numbers first.
11821335840	Jan 05 2023	1 Honestly, route 7 is too freakin' dangerous to ride bicycles on, so riding between say, Sheffield and GB is just crazy. A path that isn't part of route 7 proper would be ideal...
11821099293	Jan 01 2023	1 Stop narrowing the road widths with these unused bike lanes.
11821081481	Dec 31 2022	0 This isn't a question for Sandisfield: dangerous roads for cycling and no local transportation hubs.
11821035221	Dec 30 2022	0 Public transportation to Amtrak stations, Wassaic station, New York city, Bradley airport from Pittsfield
11821016924	Dec 29 2022	0 Having separate bike paths (that are well protected from car traffic) would be an amazing improvement to our current transportation system.
11821015116	Dec 29 2022	0 Shared bike are not used by adults, they are used/abused by kids
11821013214	Dec 29 2022	0 Western Massachusetts has the worst roads I have ever driven on and I have driven in 42 out of 50 states.
11821011437	Dec 29 2022	0 Better maintenance of private gravel roads would facilitate biking and walking and make these roads safer.
11821009274	Dec 29 2022	0 Add license and insurance requirements for bike riders, especially e-bike riders. Enforce road rules for bike riders. The roads are unsafe to
11820999830	Dec 29 2022	1 Bike on so many bikers use the sidewalks. This makes it diff and dangerous for the elderly and for those with limited mobility. Rail service
11820999371	Dec 29 2022	1 Rail service

11820997146f Dec 29 2022 1 I would expand the existing bike trails but would actually NOT want them to go into downtown Pittsfield. I avoid that area - it feels unsafe, I get harassed by panhandlers and homeless when I go there because I need to. A good bike path should follow the power line right of ways to ensure they avoid downtown Pittsfield. If we want to promote tourism, we should not make them feel as unsafe as the areas they come from. I'd love to be able to ride from Williamstown to Sheffield, over to Sandisfield and back up to Greylock however, but away from cars.

11820993457f Dec 29 2022 0 Better bike & sidewalks so we are safer on our roads- better for health & environment!! Abs streetlights to the major 3 stop intersections in lenox & C stockbridge- remove roundabout in Gt Barrington - dangerous & poorly built put stop light back 8 ! Add more mileage lights to get drivers to slow down!

11820988721f Dec 29 2022 0 I probably wouldn't use it, but I know lots of people who would.

11820987128f Dec 29 2022 0 Rail trails and Bike paths are essentially for recreation/ leisure. Bike lanes are a transportation issue. Current accommodations for bicycle transportation are woeful and unsafe.

I can't express more than I have that we need better transportation as our workforce and seniors are in DIRE NEED.

Yes, I also would think a shuttle service from Hudson and/or Wassaic is required to link the Berkshires to NY.

11820974255f Dec 28 2022 1 Why did the Berkshire flyer not include Hudson, NY which is closer to the Berkshires?! It was a missed opportunity. Have the BRTA link Hudson, NY with the Berkshire Flyer.

Please build bike paths and bike lanes. People will use them. As an example look at what the Beltline has done to the city of Atlanta. Build it and people will use it. Don't waste money on a bike share system. Those are meant for large metropolitan areas, not small rural towns.

11820971417f Dec 28 2022 0

The on road bike trails are not safe unless they are protected. Bike lane directly next to sidewalks, then barrier poles, then car parking. Look at Montreal for guidance. The bike lanes in Pittsfield were done do poorly- it is sad. We can do better.

11820968875f Dec 28 2022 0 Bike lanes/sidewalks on Route 7 through Lanesborough to Williamstown would be amazing

11820793004f Dec 24 2022 0 I personally dislike some of the bike lanes on some of the streets, in terms of where they are on the road. I also dislike the electric scooters.

We are car bound and do not believe we have the funding to have a one system fits all transit system. I do not feel it is cost effective to expand BRTA. The culture of "suspicious activity" discourages walking beyond major downtown streets or walking in non-summer weather, labeling it as suspicious

11820646870f Dec 21 2022 0 because it is uncommon.

Bikes make more sense than the scooters. The scooters are fun for some but the company is unsustainable. Would need better monitoring system because we already know there's a lot of abuse of the equipment

11820621195f Dec 21 2022 0 If we expand the trails there needs to be security on the pathways to many unfortunate events that happen it's needs to have police presents and

11820437663f Dec 19 2022 1 emergency phone system on the trail

11819945913f Dec 13 2022 1 I have my own bike

I have a personal ebike and would be unlikely to use a bike share service, but I recognize the cost barrier to entry for an ebike and would support the service entering the area.

11819891692f Dec 12 2022 1 I am an active senior and would really like to ride my e-bike to shop, do errands, socialize etc but we need bike lanes, especially on major roads

11819679589f Dec 08 2022 1 leading into town, allowing me to ride from Egremont into Great Barrington etc.

Yes to all of the above! Impossible to rank because they are all important and would make significant differences. A priority of mine is also extending the Williamstown bike path to downtown North Adams and to Bennington (eventually). Making safety gear accessible is also important--lights, helmets, reflective gear, and locks. These boost people's abilities to bike safely in our area. Road signs that encourage drivers to watch for bikes are helpful, as are educational programs that teach cyclists the rules of the road that make the roads safer for cyclists and drivers alike.

Let the people bike! :)  
Should improve roads- if new sidewalks built then the city or towns should maintain them( shovel)-etc. Bike paths are for the younger generation-what about the seniors?

Bike share is a good idea. The scooters are a bad idea. I can not count the number of times people on them just go out into traffic and I have almost hit them. They are a safety hazard.

For me, walking is more important than biking, because walking is weight-bearing, bicycling is not. I don't support any of #31 for South County but you didn't give that option. Bike trails here are not used for transportation but only for recreation and trails for tourists.

Residents need easier access to understanding all that is available presently and as we improve options in future. Walking paths and bike paths most need immediate and necessary.

Keep plugging for it yes indeed  
Please encourage enforcement of EXISTING TRAFFIC SAFETY LAWS. ie SPEED LIMITS, etc

Making the Berkshires more hospitable to those that don't want to drive sounds great. However, the first step will be restructuring our towns to better facilitate that type of lifestyle.

I wish we had the bike share system they had in Northampton both for locals and visitors.  
Get rid of bike lane on North St

I love the idea and really hope this takes off. It'd be very helpful to our community. And make it easier for people to visit us and get around when they visit us

Those who travel by bike usually already have a bike of their own. We have an aging population, and money is better spent on safe and accessible sidewalks and public transit (both bus and train)

Fix one lane bridges  
No one uses the ones put up and painted now. Waste

The bike share system is a great option only if there are more dedicated/secure road bike lanes. In order for people to use other types of transportation it needs to feel more convenient than a car.

I like the bike racks on the BRTA buses, but amazingly I haven't used them. Perhaps with a little promotion more people would use. I live in west Pittsfield, 15 min drive from downtown. I would love to use a bike share if rental stations were located in the outskirts of town, around west Pittsfield near clapp park, Coltsville, Downing Industrial, Pontoosuc Lake, etc. and not just in the downtown area.

The main thing I don't like about the eScooters in town is that they cannot go outside of the downtown, more dense urban areas and into the suburbs and outskirts.

We need more options! You are pretty much screwed if you live here & don't own a car, it will be extremely difficult to get around in Berkshire County!

We need more bus shelters, better operating hours, connections to Albany/Bennington/NoHo/Spfld. If not Albany, at least to Bennington so you can catch the bus from there to Albany.

Not that I like tourists, but more transit options FROM here might lead to more tourists COMING here.

The main Rt's north-south, and East-west are not bike friendly or safe. Would love to see a bike lane, even on a parallel secondary roads!

Not needed for Sheffield, maybe for Great Barrington  
Bike paths to tourist attractions like museums and parks

Less effort on bikes, with the aging population and long winters, who is supposed to be using a bike, get real destinations and pick ups. Stop wasting money crowding the roads with bike lanes. Just fix the bus system and hire people who are proud to wake up and do their job and want to do their job!

More bike lanes along roads;

Bike paths;

The Bird Scooters in Pittsfield were an amazing addition this year!!

## Revised RTP Community Transportation Needs Survey

**Have any of the following weather events impacted your local roads or other transportation infrastructure in the past 3 years? (Select all that apply):**

Answer Choices	Responses	Column1
Downed trees or power lines	61.89%	177
Ice accumulation	47.90%	137
Bridge damage	45.80%	131
Road flooding/washouts	44.41%	127
Sinkholes	21.68%	62
Impassible dirt/gravel roads due to mud	21.68%	62
No major effects	13.29%	38
Other (please specify)	11.19%	32
Mudslides or rockslides onto roadways	6.29%	18
	<b>Answered</b>	<b>286</b>
	<b>Skipped</b>	<b>78</b>

Respondent ID	Response Date	Other (please specify)
118236932451	Feb 05 2023 10	Snow!! But I realize that cancelling routes because of snow may be necessary.
118230030842	Jan 30 2023 01	very bad potholes HUGE potholes on Clarkson Avenue where I live. and tamarak (near Bosquet) was a nightmare
118229920270	Jan 30 2023 09	Snow
118230384751	Jan 27 2023 05	Holmes road bridge in Pittsfield needs to get fixed! Multiple years of that bridge being down!!
118229900039	Jan 27 2023 09	Potholes.
118220237073	Jan 15 2023 10	Potholes
118210151164	Dec 29 2022 07	Potholes
118210114374	Dec 29 2022 05	The freeze thaw cycle occurring during the winter has made our road dangerous
118210070112	Dec 29 2022 03	Potholes
118210014231	Dec 29 2022 01	Snow
118210018542	Dec 29 2022 01	POTHOLES!!!!!!!



	I live on Holmes Rd and there are still T/T units going over the compromised bridge. In reality - that lifght added one minute to my commute, I timed it - from 12 minutes to 13. The GPS system still sends traffic where it has no businness
118209971466	Dec 29 2022 11going.
118209901654	Dec 29 2022 08 Pot holes everywhere
118209871283	Dec 29 2022 07unrepaired potholes
118209857815	Dec 29 2022 07Roads unsafe after snow storms construction blocking traffic without
118209738958	Dec 28 2022 11police on hand to reroute drivers There is the bridge on Holmes Road that
118207930046	Dec 24 2022 04still has not been fixed.
118206520512	Dec 21 2022 09 Potholes Buckled sidewalks and sidewalks
118206468704	Dec 21 2022 09 unevenly cleared by property owners Impassable sidewalks, because no one
118199459134	Dec 13 2022 12 shovels and city does not enforce. It's the country. We have all those
118188438802	Nov 29 2022 02 issues Snow accumulation, roads not plowed or salted. Potholes, roads not maintained. Unclear lane division. Not clearing
118184146784	Nov 23 2022 12downed trees.
118176177101	Nov 14 2022 01A bridge in town needs repair.
118176156152	Nov 14 2022 12 Pot holes, roads are bad
118175461422	Nov 13 2022 05 Frost heves The flooding noted above was
118173733379	Nov 10 2022 05 temporary. poorly plowed roads after snow storms that result in many accidents, due to not
118173480059	Nov 10 2022 11cleaning the roads fully!
118172829096	Nov 09 2022 05 Potholes winter pot holes seem to take forever to
118168719217	Nov 04 2022 05 be repaired! Asphalt disintegration each year, Patching is destroyed in 3 months. So
118167198889	Nov 03 2022 10 many pot-holes.
118163580958	Oct 31 2022 03 pot holes
118163262310	Oct 31 2022 10 Incredibility long bridge repair times

## Revised RTP Community Transportation Needs Survey

If you can, please name the road(s) and town(s) where you've experienced the above weather impacts:

Answered 160

Skipped 204

Respondent ID	Response Date	Responses
11823693245	Feb 05 2023 1	Route 8 from Pittsfield to North Adams.
11823687341	Feb 05 2023 0	Pittsfield mostly, Stockbridge occasionally
11823351570	Feb 01 2023 0	pittsfield, stockbridge
11823265395	Jan 31 2023 0	richmond
		Swamp Road, West Stockbridge to Pittsfield
		Lenox Road, West Stockbridge
11823258139	Jan 31 2023 0	Mountain Road, Richmond to Stockbridge
11823203733	Jan 30 2023 0	Pittsfield, Lenox, Stockbridge
11823003084	Jan 30 2023 0	East Road Pittsfield, East Road Adams
		All in Pittsfield:
		Tamarak
		Clarkson
11822992027	Jan 30 2023 0	Single lane bridge with potholes on Melborne
11823140701	Jan 29 2023 1	Pecks Rd
11823046674	Jan 27 2023 0	holmes rd pittsfield
11823038475	Jan 27 2023 0	Lee road
11823038901	Jan 27 2023 0	Richmond and Pittsfield
		Holmes Rd, Pittsfield
11823022646	Jan 27 2023 0	Side roads in neighborhoods in Pittsfield
11823020900	Jan 27 2023 0	Dalton & Pittsfield
		Pittsfield
11823002727	Jan 27 2023 1	Stockbridge
11823002329	Jan 27 2023 1	there is a road off east street in lenox that had an entire bridge wash out
		Richmond Shores, Rt 7 to Gt Barrington, Rt 183 Lenox,
11822989578	Jan 27 2023 0	Washington Mtn Road Lee

11822574990 (Jan 23 2023 1) Flooding Adams on North Summer and Lime St  
 11822374521 (Jan 19 2023 0) Ice Pittsfield Park square  
 11822256917 (Jan 18 2023 0) I used to work in Becket and had trouble accessing some of the roads around Jacob's Ladder Road / Route 20 during heavy rain.  
 11822181727 (Jan 17 2023 0) Lanesborough, Cheshire, Pittsfield, Adams, hilltowns, etc.  
 11822144625 (Jan 17 2023 1) Several streets throughout Pittsfield  
 11822009218 (Jan 16 2023 0) Pittsfield  
 11822023707 (Jan 15 2023 1) Pittsfield  
 11821739209 (Jan 11 2023 0) Notch Rd. and Marion Rd. North Adams  
 11821570960 (Jan 09 2023 0) Heavy rains mean Elm St in Pittsfield floods out. Always. It's past time to fix the Holmes Road bridge between Pittsfield and Lenox.  
 Merrill Road, Pittsfield  
 In my neighborhood after a storm the streets near my house (I live on Alden.) Roland Avenue.

11821076872 (Jan 09 2023 0) Hubbard ave Pittsfield

11821508002 (Jan 08 2023 0) Washington st Becket  
 Pittsfield; Lee and Lenox. Pittsfield has at least 2 bridges badly in need of repair on Holmes Road ans Melbourne avenue which now has pot holes getting deeper by the minute. Pittsfield winter plowing and sanding is the worst I've ever seen it this winter

11821477400 (Jan 07 2023 0) Holmes Road, Pittsfield, Lenox Mountain, Richmond, Rts 7 & 20 Pittsfield & Lenox. Others  
 11821468842 (Jan 07 2023 1) BERKSHIRE SCHOOL ROAD IN SHEFFIELD, MA. TAKE BETTER CARE OF THIS ROAD, IT'S A SCHOOL

11821403377 (Jan 06 2023 0) ROAD (PAVING!!!!!!!)  
 11821335840 (Jan 05 2023 1) Home Road

George Schnopp Rd, Hinsdale  
 RT 143, Hinsdale  
 Grange Hall Rd, Hinsdale  
 East St, Pittsfield  
 Pecks Rd, Pittsfield

11821129423 Jan 02 2023 1 West Housatonic St, Pittsfield  
 11821099293 Jan 01 2023 1 N/A

Pittsfield, dip in road in front of big y ,west st, deep standing water dangerous for drivers and pedestrians

11821096400 Jan 01 2023 0

11821081481 Dec 31 2022 C Every dirt road and downed trees/bridge damage on every paved road.

11821076209 Dec 31 2022 1 Dirt roads in south county

11821056749 Dec 30 2022 C Pittsfield, East Street

11821049707 Dec 30 2022 C Pittsfield, Lenox, Hinsdale, Lanesborough, Dalton

11821044139 Dec 30 2022 1 Route 2

11821041729 Dec 30 2022 1 Lenox

11821039078 Dec 30 2022 C Salisbury Road in Sheffield

11821038186 Dec 30 2022 C Every town in the Berkshires except for Alford.

11821035221 Dec 30 2022 C Pittsfield

11821035461 Dec 30 2022 C Pittsfield roads (internal)

11821034871 Dec 30 2022 C Linden St Pittsfield, MA

Mountain Rd Alford

11821028500 Dec 30 2022 C Division Street Bridge Gt Barrington

East St, West St, Barker Rd, Tamarack Rd, North St, South St, Literally almost every street and road in Pittsfield

11821014887 Dec 29 2022 C has at least one if not more of these problems!

11821016924 Dec 29 2022 C Bridge being down on Division street made it slower to travel through that part of the Berkshires

11821015116 Dec 29 2022 C Pittsfield

Division Street Bridge Great Barrington/Housatonic

11821013517 Dec 29 2022 C Holmes Road Bridge Pittsfield

11821013214 Dec 29 2022 C Hard to remember exactly which roads the older I get

11821012136 Dec 29 2022 C Savoy.

11821011437 Dec 29 2022 C Old Village Road, Mountain Road, Green River Road, Sekonk Road in Alford.

Mountain Road  
 Old Village Road  
 11821009303: Dec 29 2022 C Division Street Bridge  
 11821009274: Dec 29 2022 C Most of Pittsfield has usually has quite a group of potholes  
 11821007797: Dec 29 2022 C CROSS RD, CLARKSBURG BRIDGE  
 Holmes Rd Pittsfield bridge  
 Streets in Pittsfield ice  
 11821006401: Dec 29 2022 C Flooding in streets in Pittsfield  
 11821006312: Dec 29 2022 C Virtually every rural community  
 11821004292: Dec 29 2022 C Holmes Rd., Pittsfield roads last weekend.  
 11821002461: Dec 29 2022 C Pittsfield, Lenox, Great Barrington  
 11821001854: Dec 29 2022 C County wide  
 11821001225: Dec 29 2022 1 Bridge at West end of Interlaken Crossroad, Stockbridge. Not a weather cause; overloaded trucks  
 Old stockbridge rd, lenox  
 Division st, Gt Barrington  
 Rt 7 , lee/Stockbridge, lenox  
 11820999371: Dec 29 2022 1 Richmond mountain rd, lenox  
 11820999745: Dec 29 2022 1 The dangerous curve on Richmond Mountain Road  
 11820997473: Dec 29 2022 1 The dangerous curve on Richmond Mountain Road.  
 11820997796: Dec 29 2022 1 All of Pittsfield recently. Unacceptable  
 Holmes Rd, East St, Lenox, Middlefield Rd, other hilltown roads, I don't want to pave the gravel roads - but it  
 11820997146: Dec 29 2022 1 would be nice if they took better care of them  
 11820996199: Dec 29 2022 1 Williams St, Holmes Rd, etc  
 11820995635: Dec 29 2022 1 Route 7  
 11820993899: Dec 29 2022 1 Cheshire, Richmond, West Stockbridge, Pittsfield  
 11820993457: Dec 29 2022 C Kemble, old stockbridge rd, art 7  
 11820993223: Dec 29 2022 C flooding in downtown Pittsfield by Big Y, CVS intersection during a heavy rain, also along center street.  
 Bee Hill Rd in Williamstown  
 Bridge Repair on Route 7 in Williamstown  
 Downed Tree limbs or limbs impacting wires on North Hoosac Rd and Mass Ave in Williamstown and North  
 11820992926: Dec 29 2022 C Adams

	New Marlborough, Sandisfield, Monterey, Otis, Becket... all Hill Towns East Hill Rd. Rt.272 Rt.57
11820990461	Dec 29 2022 C Rt.183
11820990165	Dec 29 2022 C Northern berkshire
11820989881	Dec 29 2022 C None
11820990242	Dec 29 2022 C Old Village Road, Mountain Road Extension , Mountain Road in Alford
11820989009	Dec 29 2022 C Pittsfield
11820988721	Dec 29 2022 C Great Barrington/Housatonic Holmes Rd, in the area of Miss Halls School continues to be riddled with potholes and uneven pavement. Summer came and went and the road was not repaired. Drivers continue to dodge the worst spots with evasive c tactics (i.e. swerving; driving down the middle of the road; driving on the shoulder) Frost Rd. Washington - flooding
11820987128	Dec 29 2022 C Everywhere - downed trees
11820987253	Dec 29 2022 C Pittsfield
11820985781	Dec 29 2022 C Great barrington bridges
11820986077	Dec 29 2022 C Great Barrington—several roads
11820985415	Dec 29 2022 C Becket
11820983871	Dec 29 2022 C Route 7 between Stockbridge and Great Barrington. Bridges in Great Barrington Various areas in Pittsfield
11820974255	Dec 28 2022 1 Lee - Golden Hill at Route 20, Lenox Dale - Golden Hill at Catherine Lenox Dale - Walker Street at Lawton
11820973895	Dec 28 2022 1 Pittsfield
11820973741	Dec 28 2022 1 There are several bridges near my home in northwestern pittsfield that flood regularly or are crumbling into streams.
11820970620	Dec 28 2022 C

11820970321 Dec 28 2022 C North Hoosac Rd, on the sidewalk actually. I reported it to the town and they fixed it quickly.  
 11820970137 Dec 28 2022 C Great Barrington  
 11820968875 Dec 28 2022 C Lanesborough, Williamstown, Pittsfield  
 11820793004 Dec 24 2022 C Merrill Road flooding. Hubbard Ave flooding.  
 11820774820 Dec 24 2022 1 Adams, Pittsfield  
 11820767571 Dec 23 2022 C too many to name in too many towns  
 11820652051 Dec 21 2022 C Pittsfield

Minor city streets (Pittsfield) tend to be plowed later and repaired later. Minor residential streets also tend to have sidewalks of varying condition and materials. Concrete sidewalks sometimes buckle over roots, but they are generally better than asphalt which is uneven and leaves sharp crumbly areas everywhere as it deteriorates. Relying on property owners to clear snow often leaves sidewalks inaccessible or impassible (even if parts of a block are clear, it's not practical to keep crossing back and forth over the snowbank). Or in some cases, a shoveled sidewalk is treacherously icy, where leaving a thin layer of snow would have been safer.

Holmes road can we please get this fixed depot street Cheshire ma clarksburg most of their roads Pittsfield

11820437663 Dec 19 2022 1 allendale area needs to be addressed  
 11820431119 Dec 19 2022 C Walnut Street in North Adams, near Oak Avenue  
 11820358446 Dec 17 2022 C Stockbridge  
 11820089078 Dec 14 2022 C Pittsfield, Stockbridge  
 11820076207 Dec 14 2022 C Hinsdale

Elizabeth Boylston intersection  
 11819945913 Dec 13 2022 1 West & Center St intersection  
 11819899488 Dec 12 2022 C Marlboro Drive, Pittsfield  
 11819891692 Dec 12 2022 1 Elm St - Pittsfield  
 11819802932 Dec 10 2022 1 New Marlborough, Sandisfield, Great Barrington

N Main, Lanesborough

11819708677 Dec 09 2022 C Pittsfield potholes  
 11819679589 Dec 08 2022 1 Great Barrington  
 11819631581 Dec 08 2022 C Williamstown  
 11819560089 Dec 07 2022 C Route 183, Route 102  
 11819532352 Dec 07 2022 1 North Hoosac, White Oaks  
 11819529098 Dec 07 2022 1 Route 41  
 11819526006 Dec 07 2022 1 Barker rd, west houston rd, holmes rd

11819513741: Dec 07 2022 C Monument valley road in GB several times.  
11819502236: Dec 07 2022 C Barker Road, Pecks Road, Holmes Road  
11819215956: Dec 03 2022 C Rowe, Florida, North Adams  
Rte 7 just north of Monument Mountain  
11819176020: Dec 02 2022 C Lee Rte 7 at the causeway going toward Lenox  
Interlaken Road (Route 183), Stockbridge  
Averic Road, Stockbridge  
11819081090: Dec 01 2022 C East Street, Stockbridge  
11819036053: Dec 01 2022 1 Stockbridgeless  
COTTAGE St bridge has been closed for 3 or or years and not a sign of any work being done to repair and re-  
11819028519: Dec 01 2022 C open it!  
11819025236: Dec 01 2022 C Southern Berkshire County  
Egremont, Great Barrington and all other South County roads. It's wooded so frequently have down trees. Ice is  
11818843880: Nov 29 2022 C common in the northeast. Bridges out for years in Great Barrington.  
11818830172: Nov 29 2022 1 Great Barrington  
11818440891: Nov 23 2022 C North Adams Church St  
North Adams, Williamstown, Adams, Pittsfield, Savoy, Florida, Clarksburg. Particularly bad is Route 116 Adams  
and Savoy and some roads surrounding it. Also, if a tree limb from a non-residential area across from my home  
11818414678: Nov 23 2022 1 falls into the road, it doesn't get cleared without a call, and people will drag it over to my house/sidewalk/yard.  
11818351557: Nov 22 2022 C Great Barrington  
11818140601: Nov 20 2022 C Great Barrington MA  
11817962583: Nov 17 2022 C Florida, North Adams, Adams, Cheshire, Lanesborough, and Pittsfield  
Scammell Ave, Pittsfield, MA  
11817831604: Nov 16 2022 C North Adams, MA  
Holmes rd pittsfield-bridge  
Sinkhole sterling dr north Adam's  
11817800973: Nov 16 2022 C Ice build up iroquois dr north Adams  
North Adam's, & williamstown &  
West shaft rd, the rd behind the laundry mat on west end.  
11817546142: Nov 13 2022 C The end of Ashland street after the college under the bridge is kinda yuck too  
11817388018: Nov 12 2022 1 Ummm, everywhere in Berkshire County  
11817513520: Nov 12 2022 C Cross and middle roads



11817472215 Nov 11 2022 c Pittsfield  
 Morningside neighborhood, West side neighborhood,  
 11817440802 Nov 11 2022 1 Bypass, Merrill Road  
 11817434133 Nov 11 2022 c north adams, curran highway into adams  
 RT 183, Stockbridge  
 11817401151 Nov 10 2022 1 Holmes Road, Pittsfield  
 11817399165 Nov 10 2022 1 Pittsfield  
 11817390496 Nov 10 2022 c Pittsfield, on Holmes there is a bridge half close.  
 11817386498 Nov 10 2022 c Pittsfield  
 11817385709 Nov 10 2022 c Holmes Rd Pittsfield  
 11817373337 Nov 10 2022 c Elm and West Hosatonic streets (temporarily flooded)  
 Melbourne RD bridge reduced to single lane, Holesms Rd bridge reduced to single lane. Tamarak Rd was full of  
 11817367720 Nov 10 2022 c potholes.  
 Church Street, N.A.  
 11817358825 Nov 10 2022 1 Nov. 9, deep pothole, feared a flat or bent axle.  
 11817351420 Nov 10 2022 1 intersection if river street and Houghton street  
 11817348005 Nov 10 2022 1 Pittsfield, Lenox, Lee, Stockbridge, West Stockbridge, Dalton, Hinsdale, Becket, Lanesboro, Cheshire  
 11817233338 Nov 09 2022 1 Route 8 from Adams to Pittsfield, Lime St in Adams, bridge on Hubbard Ave in Pittsfield  
 11817150624 Nov 08 2022 c Adams, Cheshire, North Adams  
 11817129525 Nov 08 2022 1 Rte 7  
 11817126678 Nov 08 2022 1 Rte 2, North Adams, east of Cumberland Farms and before Hairpin Turn  
 11816871921 Nov 04 2022 c Holmes Rd Pittsfield, Rt 7 between Gt. Barrington and Stockbridge floods by swamp.  
 11816781673 Nov 03 2022 c Holmes Rd. in Pittsfield and route 7 in Lenox  
 East Washington Road, Fassell Road, Creamery Road, Buttermilk Road. Skyline Trail is being repaired but we  
 11816719888 Nov 03 2022 1 are using a detour on these other roads.  
 11816613204 Nov 02 2022 c Hobomack Ave, Bena St, wabun Ave, Lanesborough MA  
 11816456659 Nov 01 2022 1 Pittsfield, multiple roads, but was clear relatively quickly  
 11816448543 Nov 01 2022 c Egremont, Sheffield  
 11816371715 Oct 31 2022 0 Cheshire, West Stockbridge, Richmond  
 11816324871 Oct 31 2022 1 Division Street bridge near Taft Farms, Holmes Road bridge  
 Pittsfield - road flooding Benefict rd/ Dalton Ave intersection.  
 Downed trees- everywhere in Berkshire county.  
 Sinkholes - everywhere in Berkshire county.  
 11816023999 Oct 26 2022 1 Bridge damage- east new lenox

Revised RTP Community Transportation Needs Survey  
 Please add any additional comments about sustainability in Berkshire County.

Answered 53  
 Skipped 311

Respondent ID	Response Date	Responses
118236932451	Feb 05 2023 1	Can we have more hybrid or electric buses? Can school buses be electric??
118230023290	Jan 27 2023 1	There is a bridge on homesroad after miss halls schools toward pitsfield that has been broken/half closed for over 2 years Maintenance of drainage facilities and proper pretreatment of roads in winter would reduce these problems. Public Works maintenance functions are often under funded and given priority for capital spending.
118225749900	Jan 23 2023 1	More EV charging stations, per favore.
118221446250	Jan 17 2023 1	Dont overdue all the salt on the road.
118220237070	Jan 15 2023 1	The potholes get aggressive.
118213358400	Jan 05 2023 1	Please stop using ground up asphalt for sanding and in public sand pits- we don't want oil based products in our lawns, gardens, and waterways!
118211036367	Jan 01 2023 0	Power and cable lines should be transitioned to underground for new construction and whenever roads are rebuilt
118210964000	Jan 01 2023 0	Dirty roads are becoming impossible with climate change - mud season lasts all winter these days.
118210814810	Dec 31 2022 0	We have too much pass through traffic on our local back roads, such traffic needs to be diverted to interstates, highways and out of the small towns.
118210381867	Dec 30 2022 0	Our road in Alford - Mountain Rd extension is a dirt road deemed private but is used by the public as well to get to BNRC trailheads and should be maintained by the town not us.
118210285000	Dec 30 2022 0	Boston still thinks Massachusetts ends at the Connecticut river and because of this funding for roads, bridges, state parks and forests DO NOT REALLY EXIST. This has to end.
118210132140	Dec 29 2022 0	
118210114370	Dec 29 2022 0	These gravel, dirt roads are becoming increasingly dangerous due to freeze, thaw in winter and torrential rain, flooding in spring, summer and fall exacerbated by climate change. The county and town needs to maintain these roads which receive heavy use by public.
118209993710	Dec 29 2022 1	Rail service must be restored for a multitude of economic, environmental, safety and quality of life issues stop encouraging folks to move to the small towns. one house on 10 acres 20 miles from the stuff they want is not "green". Rehabbing a house in a neighborhood in Pittsfield and evicting the dirtbags - that keeps a house out of a landfill and eliminates the need to get tourists out of their cars! The summer traffic pollution is ridiculous. We should have a system where tourists park their vehicles and then can ride convenient shuttles to their destinations (like Natl Parks do). We have to break the stereotype that public transportation is only for seniors and poor people!
118209961990	Dec 29 2022 1	We need public transportation similar to what it is in Europe, Asia and Africa. It is stupid that there is not public funding for public transport in a world where climate change is created in large part by vehicle emissions.
118209904610	Dec 29 2022 0	
118209898810	Dec 29 2022 0	None

Housing  
Transportation

I don't understand how we can have so many hotels in the pipeline (over 300 rooms: Lennox and Great Barrington) with limited workforce?!

Something is not making sense with planning. We need a workforce to be able to sustain all this growth. We are barely hanging on at the moment with MANY businesses struggling to find a human to work.

11820974255: Dec 28 2022 1 moment with MANY businesses struggling to find a human to work.

11820971417: Dec 28 2022 0 4 bridges in less than two miles on or adjacent to 183, north of 102 have been out. 2 are finally fixed. 2 still need repair. I dislike that I need to own a car to get anything done in the Berkshires. I just purchased an EV because it felt wrong owning a gas powered 0 vehicle. But this is not an option for everyone. I am lucky.

11820970321: Dec 28 2022 0 We need to define sustainability so we're all aware of what this is to mean and then build it into all road work done. We may, as a county and state, have to chose which roads receive more attention than others and make it easier to decommission or find ways to maintain less 0 traveled roads at lower costs.

11820767571: Dec 23 2022 0 PLEASE improve animal passage when designing new road, culverts, etc.

11820694137: Dec 22 2022 0 Is there a better road surface than asphalt that wouldn't expand and contract so severely with salt/weather changes? The spring potholes 0 just get worse and worse.

11820652051: Dec 21 2022 0 Much of the litter on the streets comes from fast food.

11820646870: Dec 21 2022 0 Lack of environmental sustainability planning creates long term problems.

11819945913: Dec 13 2022 1 I live in the Morningside neighborhood. The street sweepers have not come in a couple of years. Due to the immense amount of littering in my neighborhood (trash from Altown and empty nip bottles) this has become a huge burden to drivers and walkers alike.

11819729149: Dec 09 2022 1 I feel very strongly about sustainability, so it's difficult to put that all together here. Berkshire County is so reliant on cars, which is a huge class equity and access issue, not to mention a major climate issue. Boosting public transit and active transport systems benefits everyone and our environment. It should absolutely be one the main priorities for our area in the next decade, as we confront a world massively 0 shaped by climate collapse.

11819631581: Dec 08 2022 0 Please build more wildlife travel options (tunnels, bridges committed to wildlife crossings)

11819529098: Dec 07 2022 1 Bridge condition, especially on state roads is a major concern. The rails on the Stockbridge Route 7 South Street bridge over the Housatonic are falling apart, what's the under structure like? An ice dam several years ago was threatening the gas line beneath. If that

11819081090: Dec 01 2022 0 Housatonic are falling apart, what's the under structure like? An ice dam several years ago was threatening the gas line beneath. If that bridge were unusable, it would be a major catastrophe for county transportation.

11818848346: Nov 30 2022 0 Rail transport could also be used to move freight and provide distribution centers in the region

11818843880: Nov 29 2022 0 I would be thrilled if they could fix potholes and pavements. Also, we have bridges closed for repairs for YEARS.

11818834425: Nov 29 2022 1 Things look pretty good. Wished that all the pot holes had been repaired over this summer.

11818440891: Nov 23 2022 0 Nope

Just please maintain the roads. Lighting matters, and we need more reflective road dividers/strips. Driving in a poorly lit or unlit secondary road at night in a rainstorm or snowstorm is extremely dangerous when you can't even see where the lane is.

11818414678: Nov 23 2022 1 Broad topic...hmmm why are we still allowing Roundup to be sprayed in our communities and destroying our natural habitats, soil, river, and 0 human bodily health?

11817803887: Nov 16 2022 0 Weather happens, so it's reasonable to expect occasional damage to roadways. Money should be budgeted to take care of the occasional 0 emergency condition.

11817617710: Nov 14 2022 0 I'm only 32 but it seems as tho we are on right path

11817546142: Nov 13 2022 0

Our roads are beyond horrendous, making them a danger to both motorists and pedestrians. Paving the roads with something more environmentally friendly with the addition of being able to withstand extreme temperature fluctuations would be great. Most paving is done so close to winter weather, that a lot of the road comes up with plowing. Line painting along with reflective markers would be a fantastic addition to roadways and highways  
If people drove less and regularly took mass transit, it would be good for environment. I'm happy a Pittsfield bypass wasn't built through the woods.

1181733880187 Nov 12 2022 1  
11817373337 Nov 10 2022 0

118173588252 Nov 10 2022 1 We had better invite China to build new infrastructure here. It took 25 years for an alderman in NT to get a little rail spur working.

11817282909 Nov 09 2022 0 CarShare and BikeShare would be amazing

11817233338 Nov 09 2022 1 Clear trees far enough back from the road to help minimize fallen timber in the roads.

Do you have any idea as to how many trees are waiting to fall on the next unsuspecting traveler? LOTS. I'm looking at you, Fred Mason

11817150624 Nov 08 2022 0 Road, Route 8 in Lanesboro, corner of Ashland and Church in North Adams.

118171295257 Nov 08 2022 1 Ooo

118168719217 Nov 04 2022 0 Install more solar powered traffic devices.

11816715996 Nov 03 2022 0 We need less pavement and more stormwater management.

Town of Lanesborough refuses to pave all the connecting dirt roads that attach to Hobomack Ave all of my 53 years living in this town. It

11816613204 Nov 02 2022 0 constantly washes out, steep hill streets. They waste so much time and energy grading and adding dirt that washes away with the next storm.

Dirt roads get muddy in the spring, I would rather have this than paved roads every place

118164866397 Nov 01 2022 0

118164566597 Nov 01 2022 1 Storm damage seems to be fixed quickly but bridge closures due to deterioration take years to repair. This delay is unacceptable.

Roads are going backwards, Spend more \$ on roads instead of hiking and biketrails and bike lanes. Roads are getting worse yearly. If we do

not start spending more on our roads NOW, the cumulative cost of continued deferred maintenance will eventually price us out of ever being

11816371715 Oct 31 2022 0 able to fix our roads. Roads ignored get MUCH MORE EXPENSIVE to fix later than catching them earlier.

I don't have to mention that our roads are becoming overburdened with vehicles, particularly in summer. Providing bike lanes should help

11816326250 Oct 31 2022 1 alleviate some of that burden.

11816326231 Oct 31 2022 1 Fix the Holmes Road bridge before I get old and die!

Revised RTP Community Transportation Needs Survey

Autonomous vehicles (e.g., self-driving cars) (5 stars = very likely; 1 star = very unlikely):

star	1	2	3	4	5	Don't know	Total	Weighted Average						
(Optional) Explain why you gave your rating here.	50.87%	147	7.61%	22	9.00%	26	7.96%	23	17.65%	51	6.92%	20	289	2.29

Answered 289  
Skipped 75

Respondent ID	Response
118236873418	response Dai (Optional) Explain why you gave your rating here.
118230030842	Feb 05 2023: Umm, likely death!
118230027277	Jan 30 2023 Not sure if they are safe
118229903713	Jan 27 2023 Don't trust the technology yet
118229900039	Jan 27 2023 bad idea.
118225749900	Jan 23 2023 unproven technology
118221817270	Jan 17 2023 Safety concerns.
118218566496	Jan 13 2023 I can't drive so this would revolutionize my life . If I could afford it
118217223679	Jan 11 2023 If I didn't have to drive my vehicle it would save on maintenance and fuel
118215709605	Jan 09 2023 These seem dangerous and like other drivers will misuse them. Constant vigilance when driving is imperative to safety.
118210768729	Jan 09 2023 I will never use self-driving vehicles.
118213358402	Jan 05 2023 I don't trust robots.
118210992931	Jan 01 2023 I like the idea
118210975287	Jan 01 2023 NOT SAFE
118210814819	Dec 31 202: Options for driving everywhere - especially in our low traffic South County.
118210151164	Dec 29 202: Great option for the elderly and drunk drivers
118210135179	Dec 29 202: assisted yes autonomous no
118210132142	Dec 29 202: Long way to go. Won't be safe in my lifetime.
118210116846	Dec 29 202: Might use one when I'm no longer able to drive myself
118210114374	Dec 29 202: Improved safety
118210093033	Dec 29 202: I don't foresee this being a viable option in the near future. who will be responsible for failure? car companies will get a pass - how will the car see the lines when covered with snow or ice? Alert drivers are better than distracted ones - and the AI can and may fail. What happens to an AI car if someone hacks into the system guiding it? too many unknowns.
118209971466	Dec 29 202: into the system guiding it? too many unknowns.
118209952230	Dec 29 202: Dangerous
118209938993	Dec 29 202: If it is designed and built by humans, it will fail.
118209898813	Dec 29 202: I drive
118209894234	Dec 29 202: I have trust issues
118209742552	Please, autonomous vehicles DO NOT work. Please see the many deadly accidents that show it's not feasible especially in the Berkshires with extreme weather conditions
118209703210	Dec 28 202: This is never going to happen.
118209701377	Dec 28 202: Creepy
118209688759	Dec 28 202: Public transit is more important
118207748207	Dec 24 202: Don't trust tgerm
118207675716	Dec 23 202: 5 this could be a boon as I age.
118206468704	Dec 21 202: Unsafe in rural areas, environmental nightmare

118204347272  
118201329425  
118200890784  
118199459134  
118197086774  
118196315816  
118195600899  
118195241255  
118191760201  
118190810907  
118190583351  
118188483466  
118188301728  
118184984086  
118184146784  
118179625838  
118178316045  
118178038875  
118175914450  
118175461422  
118173880187  
118175135207  
118174408025  
118173904967  
118173864984  
118173514209  
118168719217  
118167198889  
118166132040  
118164485432  
118163717155  
118163339486  
118163262508  
118163262310  
118160239998

Dec 19 2022; can't wait to drive once they actually work - but I'll be dead  
Dec 14 2022; Safety dependable  
Dec 14 2022; I don't trust them!  
Dec 13 2022; Not proven technology, coupled with inattentive people utilizing  
Dec 09 2022; Senior citizen  
Dec 08 2022; Hard to imagine that they can be safe!  
Dec 07 2022; 5G requires a lot of infrastructure-kudos to Pittsfield for putting a bylaw in place! It's ugly and will negatively affect our bucolic views.  
Dec 07 2022; I will never use a self driving car. Not ever.  
Dec 02 2022; I don't trust technology fully.  
Dec 01 2022; I assumed it would be a rentable vehicle, not one I owned.  
Dec 01 2022; intriguing but would need reassurance about safety  
Nov 30 2022; do not trust/will not use  
Nov 29 2022; If the system goes where I want to go in reasonable time I will use it  
Nov 24 2022; not safe yet  
Nov 23 2022; I enjoy driving. Also, don't trust them. Technology isn't there yet.  
Nov 17 2022; I would prefer anything over continuing to use cars long-term.  
Nov 16 2022; Car-centric infrastructure sucks  
Nov 16 2022; Too expensive, and the tech is too young. Improve the infrastructure first before buying shiny new toys.  
Nov 14 2022; Lack of trust.  
Nov 13 2022; I dont drive so having a "driver" would rock. And no humane emotional  
Nov 12 2022; Too new a technology that has had disastrous consequences for safety already  
Nov 12 2022; Getting older  
Nov 11 2022; I don't really trust technology without the human factor  
Nov 10 2022; This is my only option right now. I will like not to depend only on a car.  
Nov 10 2022; If self driving vehicles were available this would allow me to have more independent travel despite being too blind to drive a regular vehicle  
Nov 10 2022; fully autonomous self-driving cars are a lot more impractical and farther away in the future than most people think.  
Nov 10 2022; will never trust self driving vehicle.  
Nov 04 2022; tech is long way from perfection.  
Nov 03 2022; Not sure about safety of self-driving vehicles.  
Nov 02 2022; One word... DANGEROUS!  
Nov 01 2022; The energy inputs required to assemble autonomous vehicles are very wasteful and intensive compared to bicycling.  
Oct 31 2022; If it is designed and built by humans, it will fail.  
Oct 31 2022; no way  
Oct 31 2022; Because they won't be perfected during my lifetime  
Oct 31 2022; As I age I would rather be driven than drive.  
Oct 26 2022; Wouldn't trust it.

Revised RTP Community Transportation Needs Survey

Ride hailing (e.g., Uber or Lyft) (5 stars = very likely; 1 star = very unlikely):

star	1	2	3	4	5	Don't know	Total	Weighted Average					
(Optional) Explain why you gave your rating here.	78	13.79%	40	15.86%	46	14.48%	42	25.52%	74	3.45%	10	290	2.98

Answered 290  
Skipped 74

Respondent ID	Response
118236932451	response Dai (Optional) Explain why you gave your rating here. Feb 05 2022: I don't currently use an online payment system and isn't this necessary for these services?
118232037337	I think we need more of these, but personally I wouldn't use them since I have my own (electric) car.
118230030842	Jan 30 2023 When I get too old to drive, then I would definitely want this as an option.
118230027277	Jan 30 2023 Usually I drive wherever I go
118229903713	Jan 27 2023 I used to drive for Uber
118229900039	Jan 27 2023 Would rather have a more robust bus system.
118225749900	Jan 27 2023 having more reliable taxi/ride share service would make nightlife more accessible
118221817270	Jan 23 2023 feasible only in urban area
118218566496	Jan 17 2023 Price and safety concerns.
118217223679	Jan 13 2023 If it was cheaper
118215709605	Jan 11 2023 I'd use raise hailing only if I needed to
118210768729	Jan 09 2023 Maybe if I was going somewhere and didn't want to drive, but most places I am capable of driving to.
118210975287	Jan 09 2023 I'd rather get a ride from friends or family.
118210814819	Jan 01 2023 sometimes, no other option.
118210132142	Dec 31 2022: if they would ever come to Sandisfield, I would use them as transportation to/from rail.
118210114374	Dec 29 2022: never had a need
118210092744	Dec 29 2022: Convenience
118210042929	Dec 29 2022: Don't feel they are safe.
118209971466	Uber is just a taxi with a different name. But unlike a taxi - it is unregulated enough to allow for discrimination, lack
118209961990	Dec 29 2022: of accountability for bad actors, and lack of inspection
118209952230	Dec 29 2022: These services are terrible for labor and should be outlawed.
118209938993	Dec 29 2022: Not a reason to use
118209898813	Dec 29 2022: not financially viable
118209894234	Dec 29 2022: Only in emergency
118209742552	Dec 29 2022: if it was available here I would use it.
118209738958	Dec 28 2022: Desperately needed!!!
118209701377	Dec 28 2022: if it was available consistently, I would use to go to airport in Boston, Hartford and Albany and to medical appointments in Boston
118209688759	Dec 28 2022: if we have it- convenient
118207748207	Dec 28 2022: I don't trust these companies to properly vet their drivers or to treat the drivers they do have fairly
118207675716	Dec 24 2022: Usually use when traveling to/from airports
118204347272	Dec 23 2022: I would use if dependable
118200890784	Dec 19 2022: I've used successfully often elsewhere
118199459134	Dec 14 2022: I will use only if I will be drinking.
118197086774	Dec 13 2022: Don't know if safe
118196315816	Dec 09 2022: Senior citizen
	Dec 08 2022: This would be great for occasional use when wanting to go out and drink--but it would be only occasional use.

118195600899	Dec 07 2021: It would be nice to not have to assign a designated driver when we go out.
118191760201	Dec 02 2021: I'm still driving but would like this option as I age in place.
118190285196	Dec 01 2021: very useful
118188483466	Nov 30 2021: no different than a taxi
118184984086	Nov 24 2021: don't trust - drivers not vetted
118184146784	Nov 23 2021: When car isn't available/can't drive
118179625838	Nov 17 2021: This involves focusing on cars, and also offloading the responsibility of transporting people to the general public.
118178801220	Nov 17 2021: Nervous to do this do to trust and safety
118178316045	Nov 16 2021: Car-centric infrastructure sucks
118178038875	Nov 16 2021: Expensive rates.
118175461422	Nov 13 2021: A group of random people in a car is yuck
118175343823	Nov 13 2021: I prefer our local taxi company
118175135207	Nov 12 2021: Still driving fine
118174408025	Convenience of getting places I am not comfortable traveling to on my own and convenience of traveling at certain times when I may
118173904967	Nov 11 2021: not be comfortable traveling on my own
118173864984	Nov 10 2021: I will use this type of service for night events.
118173733379	Nov 10 2021: This is a secondary mode of transportation for me, but it is more flexible allowing me to schedule rides in the app when I am ready to use them
118173677208	Nov 10 2021: The van service I mentioned above, very popular, would be interesting to try.
118173588252	Nov 10 2021: I avoid using Ride share apps due to the unethical and unsustainable businesses practices of them.
118173514209	Nov 10 2021: safety, cleanliness, privacy
118171506245	Nov 10 2021: I can still drive myself (at least locally)
118168719217	Nov 08 2021: Taxi drivers tend to drive badly, and Uber/Lyft drivers tend to be rapey/assaulty.
118166132040	Nov 04 2021: alternative when own car isn't available.
118165769462	Nov 02 2021: Have a car of my own
118164485432	Nov 02 2021: Would love this for airport trips and some local nights out so no designated driver needed
118163339486	I am against the introduction of corporate entities like Uber and Lyft into my community. If a ride-share cooperative offered the same service, I
118163262508	Nov 01 2021: would be interested in using it.
118163262310	Oct 31 2022 often too expensive
118160239998	Oct 31 2022 Good option when driving is not appropriate.
	Oct 31 2022 Safety concerns.
	Oct 26 2022 Very convenient for going to events or bars where you may not want to drive afterwards



Revised RTP Community Transportation Needs Survey

Vehicle sharing (e.g., renting vehicles for on-demand, local, short-term use) (5 stars = very likely; 1 star = very unlikely):

star	1	2	3	4	5	Total	Weighted Average							
(Optional) Explain why you gave your rating here.	44.14%	128	13.79%	40	17.59%	51	8.62%	25	10.34%	30	5.52%	16	290	2.23
	Answered												290	

Respondent ID	Response Data (Optional) Explain why you gave your rating here.
118236932451	Feb 05 2023 - This always sounds like a great idea but then it seems to have too many rules and not enough available cars!!
118236873418	Feb 05 2023 (For visiting friends and family
118232037337	Jan 30 2023 (Renting a pickup truck now and then would be very helpful...
118230030842	Jan 30 2023 (So far, I am using my own car
118230466741	Jan 27 2023 (depends on price
118229903713	Jan 27 2023 (See above.
118229900039	Jan 27 2023 (I already have my own vehicle
118225749900	Jan 23 2023 (no personal experience with it
118218566496	Jan 13 2023 (Nope. I can't drive  If this were something like a pickup truck for moving furniture, sure. But being privileged enough to have my own vehicle, I would only use something like a small car if my car were being repaired on occasion.
118215709605	Jan 09 2023 (my car were being repaired on occasion.
118210768729	Jan 09 2023 (Same as ride hailing.
118210814819	Dec 31 2022 (Very helpful alternative to no or expensive long term parking.
118210132142	Dec 29 2022 (not familiar with this concept
118210114374	Dec 29 2022 (Convenience and low cost
118209971466	Dec 29 2022 -same as UBER -
118209961990	Dec 29 2022 -We need to get to less cars, not more!
118209952230	Dec 29 2022 -not comfortable
118209898813	Dec 29 2022 (Close contact with strangers not in favor
118209742552	Dec 28 2022 -Not sure, but better than we have currently which is nothing.
118209701377	Dec 28 2022 (No strangers
118209688759	Dec 28 2022 (as it stands owning a vehicle is more feasible
118207748207	Dec 24 2022 -Yuck
118207675716	Dec 23 2022 (I have a car presently and would rather use another option
118206941379	Dec 22 2022 (Unlikely to rent a CAR, but I would rent a TRUCK.
118204347272	Dec 19 2022 -would rather have long distance short term use to get to cities
118201329425	Dec 14 2022 (Have my own vehicle
118199459134	Dec 13 2022 -Might be useful for others.
118198916926	Dec 12 2022 -Personal vehicles are small, would occasionally use a service such as fluid.
118196795896	Dec 08 2022 -Probably wouldn't be an option in our small village
118196315816	Dec 08 2022 (I doubt I'll give up my personal vehicle in the near future so this option doesn't usually help me.
118195600899	Dec 07 2022 (I am curious about this but I live in the country so I don't see how it would work for me.
118191760201	Dec 02 2022 (Great option for visitors arriving by bus or train.
118188483466	Nov 30 2022 (very cumbersome for one way trips
118184984086	Nov 24 2022 -own a car
118184146784	Nov 23 2022 -Not needed for me.
118179625838	Nov 17 2022 (Unless my car becomes unreliable, I wouldn't need this.

118178316045	Nov 16 2022 ( Car-centric infrastructure sucks
118178038875	Nov 16 2022 ( Infrastructure first.
118175461422	Nov 13 2022 ( Not for me specifically I dont have linces
118175135207	Nov 12 2022 ( Not close to friends
118173864984	Nov 10 2022 ( I am blind and cannot drive a vehicle whether I rent it or purchase it
118173677208	Nov 10 2022 ( I never find that the extra cost of renting a vehicle for my own personal use is worth it over public transport options.
118173588252	Nov 10 2022 ' Cleanliness, privacy, safety
118173514209	Nov 10 2022 ' only would do through my car insurance company
118171506245	Nov 08 2022 ( Don't really need it
118166132040	Nov 02 2022 ( Have a car of my own
118165769462	Nov 02 2022 ( If it could be one way rental from city I might use this service occasionally, but am much more interested in the provision of safer, more connected bicycle lanes to provide my own transporation.
118164485432	Nov 01 2022 ( bicycle lanes to provide my own transporation.
118163262310	Oct 31 2022 1No need.
118160239998	Oct 26 2022 1Could be very useful.

Revised RTP Community Transportation Needs Survey

Personal rideable technology (e.g., electric bikes, electric scooters, bike share programs) (5 stars = very likely; 1 star = very unlikely):

star	1	2	3	4	5	Don't know	Total	Weighted Average				
(Optional) Explain why you gave your rating here.	31.25%	90	11.46%	33	17.36%	50	24.65%	71	3.82%	11	288	2.92
	<b>Answered</b>										54	288

Respondent ID	Response Dat (Optional) Explain why you gave your rating here.
118232037337	Jan 30 2023 I would love to live in a community that is bike friendly and has an ebike share program
118230030842	Jan 30 2023 Not sure if electric scooters are safe
118230466741	Jan 27 2023 I'm to old for that
118229903713	Jan 27 2023 Interested in it, but only useable 6 mos. of year.
118229900039	Jan 27 2023 I already have my own bike
118225749900	Jan 23 2023 lack of experience
118221817270	Jan 17 2023 Weather, hills, dark roads, narrow roads, and other safety concerns
118218566496	Jan 13 2023 I have my own bike so I wouldn't use any other but I want more bike infrastructure
118215709605	Jan 09 2023 I don't see a need for this in the places that I frequent, which are designed to be accessed by car.
118210768729	Jan 09 2023 It's not safe enough for me.
118213358402	Jan 05 2023 I have considered an electric bike. The hilly terrain is challenging to ride and the cost of ebikes is a bit prohibitive at the moment.
118210982931	Jan 01 2023 Looks like it has been working so far.
118210814819	Dec 31 2022 Dangerous local roads for cycling, weather dependent and for pleasure not for transportation.
118210354614	Dec 30 2022 If there is a docking station.
118210114374	Dec 29 2022 Protect climate and low cost
118210093003	Dec 29 2022 I have my own and don't need a ride-share program. I own a bike, I ride it when I want to. The scooters are left on sidewalks impeding thre handicapped, ridden by kids well under 18 and weave in/out of traffic. No control
118209971466	Dec 29 2022 traffic. No control
118209961990	Dec 29 2022 Love the scooters in Pittsfield -- but not great for winter.
118209952230	Dec 29 2022 Not for me; but for others great
118209938993	Dec 29 2022 WINTER,WINTER,WINTER,COLD, RAIN, AGING POPULATION
118209898813	Dec 28 2022 I might try this
118209742552	Dec 28 2022 It would be a great option exception in the winter.
118209714173	Dec 28 2022 My own bike. I don't think there is a need in my town for bike share or scooter share programs.
118209701377	Dec 28 2022 Nice yo be outdoors biking- if lanes are safe
118209688759	Dec 28 2022 If they were available where I live and the commute was more feasible I would use them
11820748207	Dec 24 2022 Need more info about area availability
118207675716	Dec 23 2022 not comfortable using them at my age
118206468704	Dec 21 2022 interested but concerned about privacy of location data
118204347272	Dec 19 2022 love the electric bike idea
118201329425	Dec 14 2022 Tooooo old
118199340378	Dec 12 2022 age limits
118198976926	Dec 12 2022 Already own ebike
118196315816	Dec 08 2022 Heck yeah!! E-bike accessibility is the next frontier for getting people biking in our area--makes the natural barriers like hills so much less of a barrier.
118195600899	Dec 07 2022 I live in a hilly area without any bike lanes-this is too dangerous for me
118191760201	Dec 02 2022 Electric bikes are fantastic. Get more of us out there peddling.
118190285196	Dec 01 2022 at 85 not likely
118184984086	Nov 24 2022 narrow rural roads seem unsafe for biking
118184146784	Nov 23 2022 I'm too old for this, and weather doesn't permit this for at least half the year.
118179625838	Nov 17 2022 Bikes are cool
118178316045	Nov 16 2022 E-bikes would be incredibly convenient
118176038875	Nov 16 2022 Infrastructure first.
118175461422	Nov 13 2022 I cant afford to buy but to "rent" great idea. Cover more ground them my walking
118175135207	Nov 12 2022 Mostly for leisure

118173904967	Nov 10 2022	I use bird, I can't go to far because of lack of safe roads.
118173864984	Nov 10 2022	Due to my blindness these options are dangerous for me to use as I can not see where I am going I do like bike share and eScooter programs even if the business practices of some of the start up companies is a little questionable. But they are
118173677208	Nov 10 2022	cheap and convenient enough to be useful when needed, and don't harm or exploit others as much as Uber or Lyft do.
118173588252	Nov 10 2022	Too old for biking. Rode bike as primary transportation most of my life.
118173514209	Nov 10 2022	just have no interest in this.
118169099611	Nov 05 2022	My own ebike
118168719217	Nov 04 2022	self pedated biking to cut global warming & personal health.
118166132040	Nov 02 2022	Nice idea, but I don't utilize it
118164485432	Nov 01 2022	I feel making the Berkshires the most bikeable rural area in the U.S. should be the most important goal of any transportation plan.
118163717155	Oct 31 2022	WINTER, WINTER, WINTER, COLD, RAIN, AGING POPULATION
118160239998	Oct 26 2022	I used a bike share in NYC and knew many people who did. A great alternative transportation option and has many positive health and environmental benefits.

### Revised RTP Community Transportation Needs Survey

**Other new technologies (e.g., drones, robots, etc.) (5 stars = very likely; 1 star = very unlikely):**

star	1	2	3	4	5	Don't know	Total	Weighted Average						
	50.88%	145	9.12%	26	11.58%	33	4.91%	14	10.88%	31	12.63%	36	285	2.04
													<b>Answered</b>	<b>285</b>
													<b>Skipped</b>	<b>79</b>

Respondent ID	Response
118232037337	response Da (Optional) Explain why you gave your rating here.
118230030842	Jan 30 202: Not sure what this would be used for
118229903713	Jan 30 202: drones may not be very safe in cities or towns
118229900039	Jan 27 202: See #37.
118225749900	Jan 27 202: Please no with the AI overlords.
118218566496	Jan 23 202: unproven teechologies
118215709605	Jan 13 202: ?
118210768729	Jan 09 202: The only robot I have is my vacuum cleaner.
118213358402	Jan 09 202: Don't know what you mean by this. I obviously can't travel by drone...
118210992931	Jan 05 202: Again. Heard pass on the robots.
118210814819	Jan 01 202: Unfamiliar with this technology idea.
118210390781	Dec 31 202: Anything to avoid personal driving as only transportation.
118209971466	Dec 30 202: Uber, etc. does not seem to be an option for Sheffield.
118209952230	Dec 29 202: unmanned technology does not impress me on public roads. Agai, like AI - who is responsible for when a failure occurs
118209938993	Dec 29 202: We need to be cautious about noise pollution when considering these options.
118209898813	Dec 29 202: nah
118209742552	Dec 29 202: get real.ok?
118209738958	Dec 29 202: Need more info
118209714173	Dec 28 202: In my opinion, it's not proven not safe to use
118209701377	Dec 28 202: would be terrific to do curbside pickup from Guidos on a snowy day
118209688759	Dec 28 202: I have a drone.
118207748207	Dec 28 202: Not interested
118206468704	Dec 28 202: hell no, I don't trust the tech companies that make these things to protect our privacy or our personal information in the slightest
118199459134	Dec 21 202: Flying robot to assist with realtime walking route planning and be my friend
118195600899	Dec 13 202: Seems a waste of money
118191760201	Dec 07 202: Drones are noisy!
118190583351	Dec 02 202: Sure what it would do for me
118190285196	Dec 01 202: Seems very sci-fi!
118188483466	Dec 01 202: no clue what it means
1181849840986	Nov 30 202: I want humans
118184146784	Nov 24 202: technology not proven yet
118179625838	Nov 23 202: Would a robot carry me? Would a drone fly me?
118178038875	Nov 17 202: What?
118175461422	Nov 16 202: See above.
118175135207	Nov 13 202: I'm open to the future
	Nov 12 202: Too old

Pittsfield is mostly sparsely populated, and there isn't a high enough number of people living in the downtown area that delivery drones or robots would be useful. I think we are a very long way from these being used for personal or mass transit any time soon.

Nov 10 2022 simply unlikely  
 Nov 10 2022 no interest  
 Nov 09 2022 Not sure about the applications  
 Nov 04 2022 who doesn't like a robot slave  
 Nov 02 2022 I'm a tech lover!  
 Nov 01 2022 I am against the introduction of surveillance-state technologies into my community.  
 Oct 31 2022: get real.ok?  
 Oct 31 2022: I would like to commute via drone, although seems tight.

**Revised RTP Community Transportation Needs Survey**  
**Do you have any other questions or comments?**

Answered 85  
 Skipped 279

Respondent ID	Response Date	Responses
118230384751	Jan 27 2023 05:06 PM	No
118229903711	Jan 27 2023 10:40 AM	I would be interested in using regional public transportation if it was available when needed (i.e. -- early mornings, nights, weekends...) thanks for asking!
118229900031	Jan 27 2023 09:19 AM	The Lenox shuttle to Tanglewood, Kripalu, The Mount in the summer would be very helpful. Walking for the bus stops take a considerable amount of time.
118229895781	Jan 27 2023 09:17 AM	
118221817271	Jan 17 2023 04:32 PM	Glad that you are looking into this. I think connecting to the Metro and to AMTRAK (as well as airports) from Pittsfield would be wonderful. Electric buses or vans that start in Pittsfield and circle north and south at regular intervals would also be great.
118218566491	Jan 13 2023 04:54 AM	We really need a better shoulder /bike lane on Dalton Division Road. It is dangerous to walk or ride a bike on that street Oh, yes, I do. I have some questions about why certain streets are not being maintained properly in Pittsfield. East St from Elm to Merrill. Brown Street. Tyler Street Extension. Cloverdale Street - this street is in terrible condition. No one should have to travel roads everyday to get to and from their house that are in this shape. Also, why is it taking so long to repair/replace bridges that are down to one lane (like the one on Holmes Rd.) Where doe these projects stand on the county transportation list? Also, someone should tell the City planners (whoever decides these things) that no one deserves to have their street chipped and sealed. This is a horrible process for the residents and I speak from experience. I know that this process is cheaper, but it is so detrimental to the residents that it should be discontinued. Please inform the city that they should NOT use chip seal on their roads! I tried to use your Mapper but it would not work for me. I may try again later if you send me the link. A Bypass would solve a lot.
118210768721	Jan 09 2023 02:41 PM	I work at the Bushnell-Sage Library, and I have noticed that bus service doesn't even come down into Sheffield. I can't speak for our patrons, but I imagine public transportation service to the library would be useful. I know the rural areas of South County are woefully under-served when it comes to public transportation. I don't have a solution for it, because I can't imagine it is particularly cost effective to serve these areas, but I know a lot of our patrons are older and I can't help but think that an aging population in rural areas are in need of public transportation.
118214688421	Jan 07 2023 12:10 PM	
118213358401	Jan 05 2023 12:02 PM	
11821036361	Jan 01 2023 03:51 PM	
118210992931	Jan 01 2023 11:07 AM	
118210975281	Jan 01 2023 09:21 AM	
118210814811	Dec 31 2022 03:08 PM	
118210417291	Dec 30 2022 10:53 AM	
118210390781	Dec 30 2022 09:53 AM	
118210352211	Dec 30 2022 08:31 AM	

11821035461	Dec 30 2022 07:59 AM	Na	The sooner the better...catch up with major cities!
11821034871	Dec 30 2022 07:53 AM		Fix and then maintain the roads in Pittsfield. Forget about the fiasco of cleaning up the roads after the last storm, the roads are terrible year round!
11821014887	Dec 29 2022 09:30 PM		Pittsfield North st configuration is dangerous to both cars and bikes. The bike lane is not needed, two car lanes is.
11821015116	Dec 29 2022 07:49 PM		Becket is fastest growing destination in western Massachusetts, but we have been ignored and under or never serviced by public transportation for ever as far as I can remember. Never a good combination.
11821013214	Dec 29 2022 06:24 PM		We need the state to cough up the cash so small shithole towns CAN maintain their roads
11821012136	Dec 29 2022 05:38 PM		PLEASE rebuild the Holmes Rd. railroad bridge in Pittsfield! It's been a one-lane bridge for a number of years and it's just another impediment (there are many) to getting through Pittsfield in a timely manner!
11821011684	Dec 29 2022 05:37 PM		Nothing this survey about access to interstate highway system or concerns of highway users in general regarding poor overall north-south connectivity
11821006312	Dec 29 2022 03:02 PM		More buses, more frequent buses, weekend buses, earlier/later buses. more free or reduced fare buses, more buses to/from Williamstown/North Adams to NYC(multiple and frequent)
11820999830	Dec 29 2022 12:35 PM		Hudson NY was completely revitalized thanks to expanded rail service
11820999371	Dec 29 2022 12:25 PM		This is where your focus should be
11820997796	Dec 29 2022 11:38 AM		While the roads are usually treated and cleared after snow/ice, the recent storm was poorly handled. 3 days later roads were still very hazardous.
11820992909	Dec 29 2022 10:22 AM		Consider a tram system that runs from Williamstown to Sheffield
11820993899	Dec 29 2022 10:17 AM		Budget less for bike lanes and rail trails. Spend more on fixing bridges with closed lanes for years. Bike lanes are a waste of road space in our area for the usefulness that they provide.
11820994310	Dec 29 2022 10:09 AM		This survey is obviously slanted toward bikes and bike paths. People, especially seniors and the disabled, have been participating in listening sessions and surveys and have seen absolutely no progress whatsoever for many years. It is insulting to keep asking these questions and then do nothing. Questions and survey taking do not fix the problems. Stop asking and start doing
11820989881	Dec 29 2022 08:39 AM	No	
11820990165	Dec 29 2022 08:36 AM		Please eliminate the annual northern berkshire pothole festival
11820989613	Dec 29 2022 08:21 AM		I do not believe the round about at five corners in Williamstown is a good thing. Big trucks traveling south down the hill may find it hard to negotiate in icy conditions
		Comments:	
			1. Speed of repairs. Holmes Rd bridge is still one lane. C'mon.
			2. As mentioned, Holmes Rd potholes and road surface unevenness remain after a full summer of opportunity to repair.
			2. Safety. Rt. 7/20 from Lenox through to Pittsfield. And now the plan is to add a Starbucks and two car dealerships? Has anyone in charge of projects and planning actually driven that stretch of road and felt comfortable for their safety? Vehicle count surveys don't tell the story.
			Driver behaviors do. Excess speed. Directional cross overs using the center lane, resulting in multiple head-on encounters. Tractor trailer use (a necessity but a danger). Its dangerous, and only going to get worse.
			yes, in lenox make the intersections East St.and Housatonic St and East St and New Lenox Rd. a 4 WAY STOP!!
			Questions seem to be heavily tilted toward the working population. Need to address the aging (and aged) population more
			Efficient rail service to NYC Boston is important to me
			I've already written my opinions in past questions
			need better enforcement of speed limit and no phone use when driving on route 2C
			Bike paths and bike lanes. Train service between the Berkshires and Boston, NYC, Albany, etc, and not just for New Yorkers to come here on weekends, for us too.
			Please fight to keep the Great Barrington Airport open and continue improving on the Pittsfield and North Adams airports.
			More bike paths (not lanes) please.

11820970137	Dec 28 2022 08:47 PM	The painted road lines in Pittsfield by the Big Y heading downtown guide the drivers in the left lane to crash into a divider. This is really bad. Please fix.
11820793004	Dec 24 2022 04:57 PM	I would love to see more accessible/available transportation services in Berkshire County. Though I have grown up in Berkshire County and would say that I have been privileged to be able to use a car most of my life for transportation, I think it is important for those who really need local transportation services to be able to access them. I would love more car/ ride share options like Uber, Lyft, or Zipcar. I would definitely be interested if there was a passenger rail system implemented for Berkshire County as well. I really think the area has potential and I would love to see it be utilized to its full extent.
11820767571	Dec 23 2022 07:46 PM	We need a variety of approaches, based on the specific towns or set of towns requirements I wish you had included environmental benefits in the questions about priorities for improving transportation systems. The two go hand in hand, and this questionnaire didn't ask about that at all.
11820694137	Dec 22 2022 01:04 PM	Thanks
11820375301	Dec 18 2022 08:27 AM	Pittsfield needs a bypass for all numbered routes.
11820358446	Dec 17 2022 07:07 PM	I do not believe the person that has transportation issues will take the time to complete this lengthy survey.
11820076207	Dec 14 2022 07:30 AM	It Simms Berkshire County wastes opportunities like te rail trail and constantly spends money redoing roads every year.
11819945913	Dec 13 2022 12:42 AM	Many of my friends are VERY negative about the bike lanes in Pittsfield, especially those on North St. I am in the minority & always defend them, saying that similar bike lanes are all over the County & country. Change is hard. To me, the biggest problem with the Pittsfield bike lanes is that many of the users of the bike lanes do not use them properly, driving in the wrong direction, not looking both ways. The other issue is that the speed limit, especially on North St. in Pittsfield is not enforced. I wish that entering downtown Pittsfield, was like entering downtown Stockbridge, with the large lighted sign that says slow down & flashes in red until the driver is going 20mph. If the speed limit in Pittsfield is enforced and the bicyclists know the rules of the road, perhaps there would be less negativity and fewer accidents.
11819925013	Dec 12 2022 07:20 PM	We'll designed survey. Thorough & easy to navigate.
11819899488	Dec 12 2022 02:19 PM	I would ride public transportation if it came to Egremont and was reasonably priced.
11819679589	Dec 08 2022 11:05 PM	Thanks for your work on this!
11819631581	Dec 08 2022 01:23 PM	How are you thinking about climate crisis and reducing emissions with big picture planning?
11819526006	Dec 07 2022 11:52 AM	This survey was really too long. tho' I have to admit, I am not sure how it could have been shorter. Still. Too long in this world.
11819524125	Dec 07 2022 11:28 AM	The bridges in Berkshire County REALLY need to be fixed, they are a safety issue. Also the bridge in Dalton that trucks constantly hit needs to be addressed.
11819502236	Dec 07 2022 07:37 AM	Please keep working on speedy rail access to Boston, New York and Albany.
11819176020	Dec 02 2022 08:05 PM	If we want the tourists to our area to come via mass transportation, we need to have some sort of transportation choice they can take advantage of here to get from event venue to event venue and back to their housing. More small tour buses maybe, as Naumkeag does for their Winter Lights events.
11819081090	Dec 01 2022 07:38 PM	Thank you for the great work that you do!
11819058335	Dec 01 2022 02:17 PM	IT WOULD BE NICE TO HAVE MORE PUBLIC PARKING AVAILABLE IN STOCKBRIDGE ESP. during summer months.
11819028519	Dec 01 2022 09:25 AM	I think we would all be happier if the paved surfaces and bridges were repaired. That's most important.
11818843880	Nov 29 2022 02:34 PM	Loved this public involvement outreach.
11818834425	Nov 29 2022 12:57 PM	Nope
11818440891	Nov 23 2022 06:53 PM	I want the people of Berkshire County to know what it's like to be able to walk to your grocery store or local park regularly and have a good time. Biking to get to work should be more common. The Berkshires should experience an increased lifestyle through changes and improvements.
11817962583	Nov 17 2022 05:52 PM	No
11817880122	Nov 17 2022 12:11 AM	It would be interesting to look at rural areas in Europe especially in the Netherlands or Scandinavia to get ideas.
11817735561	Nov 15 2022 03:22 PM	<a href="https://www.sick.com/de/en/sick-sensor-blog/autonomous-buses-an-uncommon-sight-on-finnish-streets/w/blog-gacha-autonomous-bus-finland/">https://www.sick.com/de/en/sick-sensor-blog/autonomous-buses-an-uncommon-sight-on-finnish-streets/w/blog-gacha-autonomous-bus-finland/</a>
11817635550	Nov 14 2022 03:52 PM	No

11817615615	Nov 14 2022 01:06 PM	They ruined Tyler St, Pittsfield does not need a rotary, Stop hiring engineering firms from Boston! Pittsfield is not a big city!
11817617710	Nov 14 2022 01:05 PM	Some organizations are pushing the 'sustainability' agenda as a pretext for curtailing the basic freedom to travel.
11817546142	Nov 13 2022 05:48 PM	When people from the big city come up they cant believe the bus prices. They say its always free or maybe \$0.70. How is that possible? I would like to see affordable public rail transit available within and to/from the Berkshires (especially northern Berkshire) It would help Berkshire County in every way.
11817534382	Nov 13 2022 11:37 AM	There are countless examples of cities who have vibrant, walkable and bikeable downtowns. Don't rebuild the wheel—but look to other models and modify for our city.
11817401151	Nov 10 2022 11:06 PM	A question before wasn't clear about the desirability of having bus service closer to where I live. I have to walk, or walk and run, for half a mile or more between my home and a bus route.
11817373337	Nov 10 2022 05:56 PM	no
11817384875	Nov 10 2022 05:52 PM	I live in the senior housing towers in Pittsfield and will be giving up driving soon. I will be relying on the management to provide me with transportation information for rides.
11817376795	Nov 10 2022 04:04 PM	
11817367720	Nov 10 2022 03:00 PM	Maintain and expand the roads and public transport options that we have. Stick with time tested proven transport designs like roundabouts and bike lanes that work, and leave the new bleeding edge tech like drones and self driving cars to the big cities like Boston and NYC.
11817150624	Nov 08 2022 02:13 PM	Can we fix the roads in Adams instead of destroying the Glen? No one wants to drive on Adams roads.
11817129525	Nov 08 2022 11:01 AM	No
11816912771	Nov 05 2022 10:17 AM	More bike lanes, more sidewalks! Especially bike lanes on streets where it would feel safe to be riding near cars
11816871921	Nov 04 2022 05:59 PM	A consistent rail service to Boston & NYC would bring more tourist back to the county. Would love to see a Fall Foliage Train or the "Weekend Snow Train" restarted to bring tourist & skiers back into the Berkshires.
11816613204	Nov 02 2022 01:41 PM	This survey was great! Do it every year! Many thanks for allowing me to voice my opinion.
11816576946	Nov 02 2022 07:04 AM	Bike trail in south county would be a game changer!!!
11816329154	Oct 31 2022 11:44 AM	Why do drivers have a different routine? All drivers should on the same page as far as drop offs picks up and times. Every driver seems to do things differently than the next which is confusing when trying to get into a routine for the bus
11816326231	Oct 31 2022 10:28 AM	Continue to repair existing roads in Pittsfield. Start repairing the terrible sidewalks in Pittsfield.
11816023999	Oct 26 2022 10:52 PM	Connect the Berkshire to major city's and watch the younger generations stay in the Berkshire's!

# Written Comments Received

MPO Liaison TIP Review Checklist			
Completeness			
ID	Review Item	Comments	Reference
A1	✓ * Table of Contents is accurate and internally-linked.		✓ -- for use in column B
A2	* Document has no broken links.	Please update the link to 'MassDOT's Municipal Resource Guide for Bikeability' on page 35.	✗ -- for use in column B
A3	✓ * <b>MPO self certification statement is included.</b>		
A4	✓ * <b>GHG certification is included.</b>	Please include a line at the bottom of this certification so the Chair can sign	
A5	* <b>Air Quality Conformity statement is included.</b>	Please include the Air Quality Conformity statement for the Chair's signature- this is the same statement from the TIP document.	
A6	* Document has no text or image placeholders.	Please make sure to include materials in the appendix that are referenced as being there throughout the document.	
A7	✓ * Charts, tables, and maps are legible and properly annotated.		
A8	✓ * Document passes an accessible check.		
A9	✓ * Document is available in relevant languages per the MPO's Title VI Plan.		
A10	✓ * List of MPO members is current.		
A11	✓ * Signatory sheet is included and accurate. Update Gina Fiandaca as Secretary/CEO of MassDOT.		
A12	✓ * Acronyms and partner agency lists are up to date.		
Narrative			
ID	Review Item	Comments	Reference
B1	✓ * RTP outlines MPO institutional organization.		
B2	✓ * RTP links to BIL planning emphasis areas.		<a href="https://www.transit.dot.gov/regulations-and-programs/transportation-planning/2021-planning-emphasis-areas">https://www.transit.dot.gov/regulations-and-programs/transportation-planning/2021-planning-emphasis-areas</a>
B3	✓ * RTP references the TIP and the UPWP.		
B4	✓ * RTP narrative is concise and reader-friendly.		
B5	* RTP discusses evaluation scoring.		
B6	* RTP includes project scoring table.	Please include a TEC scoring table in the appendix.	
B7	✓ * RTP describes public participation process.		
B8	✓ * RTP references projects that are considered to be regionally significant. <b>If RTP lists "regionally significant" projects in a financially constrained manner, please notify the Manager of MPO Activities.</b>		
B9	✗ * RTP describes funding sources accurately and notes new funding sources in BIL.	Please include a description of funding sources - this can be copied directly from the list included in the FFY 2024-2028 TIP document, and can be shown in the appendix.	<a href="https://www.fhwa.dot.gov/speciaifunding/">https://www.fhwa.dot.gov/speciaifunding/</a>
B10	✓ * RTP is comprehensible to the general public.		
B11	✓ * RTP vision, goals, and objectives are clearly stated, and discuss the influence of public feedback and participation		
B12	✓ * RTP discusses coordination and collaboration with regional and state agencies that contributed to document development.		
B13	✓ * RTP outlines reference and coordination with other regional planning efforts and MassDOT statewide plans. This includes all modes of transportation and also economic development, housing coordination, recreation, etc.		<a href="https://www.mass.gov/statewide-plans">https://www.mass.gov/statewide-plans</a>
Performance Measurement			
ID	Review Item	Comments	Reference
C1	✓ * RTP includes discussion of target-setting process.		
C2	✗ * RTP references relevant Transit Asset Management (TAM) Plans and includes all TAM Plan targets.	Please consider referencing the TAM Plan in the RTP, an appropriate place may be under Regional Goal 3 and/or 5.	<a href="https://www.transit.dot.gov/TAM/TAMPPlans">https://www.transit.dot.gov/TAM/TAMPPlans</a>
C3	✗ * RTP references relevant Public Transportation Agency Safety Plans (PTASPs) and includes all PTASP targets	Please consider referencing the PTASP, possibly when discussing PM1 or under Regional Goal 6.	<a href="https://www.transit.dot.gov/PTASP">https://www.transit.dot.gov/PTASP</a>
C4	✗ * RTP includes current adopted performance targets.	Please include Performance Measures 2 and 3, or the complete PM Target table (attached via email) in the appendix.	PM1, PM2, PM3, TAM, and any regionally-derived targets
C5	✓ * RTP discusses relationship between performance targets and project selection.		
C6	✓ Discussion on performance measures compares regional data to statewide data where available.		
C7	✓ * Future projects and studies under consideration outline beneficiaries at the local, regional, state, and inter-state level as appropriate.		
C8	✓ Transit-related efforts are specific.		
C9	✓ * Includes a discussion on performance-based planning.		
C10	✓ * Includes a discussion of efforts to update to any congestion mitigation planning		Required for TMA MPOs if current CMP is out of date.
C11	✓ If previous priorities, projects, or studies have not advanced, please discuss challenges and potential solutions.		
Project Listing and Program Development			
ID	Review Item	Comments	Reference
D1	✓ * Financial projections align with MassDOT guidance.		



	<input checked="" type="checkbox"/>	If the LRTP establishes or updates programs, there is a clear linkage to the TIP (e.g. X% of funds spent on Complete Streets, X% of Safety, etc.)
D2	<input checked="" type="checkbox"/>	If projects are listed, they use MassDOT ProjectInfo TFPCs.
D3	<input checked="" type="checkbox"/>	If projects are listed, they use MassDOT ProjectInfo description.

		Impact Analysis	
ID	Review Item	Comments	Reference
E2	<input checked="" type="checkbox"/>	* Please include a copy of the GHG analysis from the 2024-2028 TIP document in the appendix of the RTP.	
E3	<input checked="" type="checkbox"/>	* GHG analysis is available for all (and only) funded projects. All projects are appropriately labeled as qualitative or quantitative.	
E4	<input checked="" type="checkbox"/>	* Transit projects have been analyzed for GHG.	
E5	<input checked="" type="checkbox"/>	* Past and current TIP projects have been analyzed for geographic equity, including a relevant table of programming by municipality.	Please consider including this table from the 2024-2028 TIP in the appendix.
E6	<input checked="" type="checkbox"/>	* Past and current TIP projects have been analyzed for social equity.	
E7	<input checked="" type="checkbox"/>	* Social equity analysis considers Title VI / language access.	
E8	<input checked="" type="checkbox"/>	* Social equity analysis considers EJ populations, including both federal and state definitions.	
E9	<input checked="" type="checkbox"/>	* Equity analysis includes a narrative to accompany any figures.	
E11	<input checked="" type="checkbox"/>	* RTP includes a social equity distribution table of 2024-2028 TIP projects and 2018-2022 and current UPWP funded-studies considering language access and EJ populations.	Please consider including the distribution figures from the 2024-2028 TIP and the 2024 UPWP in the appendix.
E12	<input checked="" type="checkbox"/>	* Public involvement and comment are explicitly documented and in line with MPO's Public Participation Plan.	Please make sure to include any public comments received during the comment period in the appendix.

**12/1/22 Sherman Derby/Select Board Hancock:**  
(NR summary notes)

The town of Hancock is in need of a transport vehicle for elderly and disabled residents. Currently, volunteers utilize their personal vehicles which do not afford proper accessibility to passengers. We are "two towns in one", requiring long distance travel into other jurisdictions to reach one end of town from the other due to our unique topography and layout. The nearest major services are 15 miles away from most of our residents. We do not have the capital to purchase an accessible van outright, and have not been successful in receiving a grant award up to this point.

**12/3/22 Leo Sblendorio/Great Barrington:**

Hi Nicholas,  
Thinking back on the meeting at the fire house in GB.

Here's a picture of the central bike lane concept that I think could work well in many of the town centers, north street in Pittsfield in particular.

For diagonal parking, as in Stockbridge I've noticed

that reverse in rather than head in parking seems much safer.

Wish I had a raft of supporting data to share.  
For now, just a couple of thoughts,  
Thanks for your work  
Leo

## Comments on Berkshire RTP

Frieri, Peter L. (DOT) <peter.frieri@state.ma.us>

Mon 7/17/2023 4:20 PM

To: Nicholas Russo <NRusso@berkshireplanning.org>

Cc: Klem, Christopher J (DOT) <christopher.j.klem@state.ma.us>; Moore, Mark J. (DOT) <mark.moore@state.ma.us>

**Caution:** This is an external email and may be malicious. Please take care when clicking links or opening attachments.

Nick,

District One has reviewed the Berkshire Regional Transportation Plan Draft and offers the following few comments for your consideration:

### Chapter 5 – Fiscal Analysis

*p. 154, Figure 5-6: Unfunded Highway Project List*

- the first project on the list should read “Route 7&23” Complete Streets Implementation in Great Barrington, not “Route 7&20”
- the last project on the list, 613074, Retaining Wall Replacement in Williamstown, should show a TIP score of “3”
- the table should also include Project 612784 - EGREMONT- RECONSTRUCTION OF MOUNT WASHINGTON ROAD (PHASE II) for \$9,807,885. Although this project was not scored during TIP development in Spring 2023, the project was approved by MassDOT’s Project Review Committee in May 2022 and assigned a six-digit project number after the original Mount Washington Road project in Egremont was split into two phases to facilitate TIP programming.

Thanks for the opportunity to review and offer comments on this RTP Draft.

**Peter L. Frieri**



*Planning Engineer, District One, Lenox*

*Call me on MS Teams or (857) 368-1032*

Thank you for pointing me to the Metropolitan Planning Organization information on the Berkshire Regional website. As I mentioned, I would find it helpful to see the towns associated with the four regional districts listed so it's clear who the representative is for each town. Beyond this, here are a few general and specific comments from my perspective as chair of the Stockbridge Planning Board:

- 1) I continue to hear from residents who are unhappy with fast traffic speeds. I believe that we need MASS DOT to build roads that slow up drivers (traffic calming), not encourage faster speeds as appears to be the case now. Slow traffic along MASS DOT entry roads north, south, east and west of Stockbridge. These speeds spill out onto town roads, resulting in very fast driving downtown and along town roadways, many of them residential and important wildlife crossings.
- 2) The arcane process by which local speed limits are set is not working - advocate for change that gives towns control over local speeds.
- 3) Address the broken bridge rails south of downtown Stockbridge along Rt 7 over the Housatonic River and the railway tracks. They are a depressing blight on the landscape, an important commuter and visitor entry area to the town and beyond.
- 4) Integrate MASS DOT with conservation initiatives and measures to mitigate climate change - consider a mission change that reflects this. Use less asphalt and concrete, make use of lighter road surfaces where possible to mitigate heat island effect. MASS DOT roads in Stockbridge have a lot of frontage along wetlands and Kamposa Bog - improve the stewardship of these important wetland resources. Some of the worst instances of invasive plants are along MASS DOT frontage - District 1 partnership with communities and other state agencies to address this environmental impact and roadside neglect.
- 5) The blue advertising signs along MASS DOT roads that businesses and non-profits purchase are rarely maintained, another visual eyesore (see Rt 102 east of Rt 183 in Stockbridge). Consider smaller signs with multiple signs consolidated on one post. I have seen this approach in Columbia County.

Thank you,

Kate Fletcher

Chair, Stockbridge Planning Board

**From:** Jane Winn <jane@thebeatnews.org>  
**Sent:** Thursday, March 2, 2023 8:01 AM  
**To:** Nicholas Russo  
**Subject:** Re: RTP Long-range Goals and Objectives

**Caution:** This is an external email and may be malicious. Please take care when clicking links or opening attachments.

Hi Nick,

I will try to put these into formal comments - but for now:

“Adopt sustainable landuse patterns”? That is totally insufficient!

How about **Decrease the impact of our transportation on wildlife?**

- This should include working to ensure wildlife passage under (or over) roads and railroads where there is a need for the wildlife to move - and especially where there is protected land on either side to ensure this will permanently be a wildlife corridor for critters to move throughout the Berkshires.
- Decrease pollution from our transportation system (going directly into wetlands and waterways). Work to disconnect directly connected impervious areas such as roads and parking lots by removing pipes carrying stormwater into our wetlands and waterways and ensuring stormwater is infiltrated as close to where it falls as possible.
- Preventing the introduction of non-native, invasive species while encouraging the planting of appropriate, native, wildlife supporting plants.

Jane

--

Jane Winn | Executive Director | any pronouns

**Berkshire Environmental Action Team (BEAT)**

20 Chapel St, Pittsfield, MA 01201 | office 413-464-9402 | cell 413-230-7321

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# Public Notices and Outreach

Wednesday, June 28, 2023

BerkshireEagle.com | The Berkshire Eagle | **SPORTS** | B5

To advertise call 413-496-6365 or email [classifieds@newenglandnewspapers.com](mailto:classifieds@newenglandnewspapers.com)

## The Berkshire Eagle

### Public Notices

#### Berkshire Metropolitan Planning Organization PUBLIC REVIEW AND COMMENT

The Berkshire MPO is seeking public comment on the following documents:

**2024 Regional Transportation Plan (RTP)** - The 2024 RTP update is a long range (25 year) comprehensive document that provides the basis for future transportation investment and planning in the region. The RTP establishes the regional priority, reviews current transportation infrastructure, in the region and makes recommendations for future projects.

**2024 Unified Planning Work Program (UPWP)** - The 2024 UPWP is a list, budget and description of all federally funded transportation planning work to be performed between October 1, 2023 and September 30, 2024, mostly by staff of the Berkshire Regional Planning Commission (BRPC) and consultants working for BRPC, under the auspices of the Berkshire Metropolitan Planning Organization.

Copies of these documents can be obtained by:  
1. Phone: Berkshire Regional Planning Commission (BRPC), 413-442-1521, ext. 20;  
2. BRPC web site: [www.berkshireplanning.org](http://www.berkshireplanning.org);  
3. Walk-in: BRPC, 1 Fenn Street, Suite 201, Pittsfield MA 01201.

Comments are due by 5:00 PM on July 18, 2023 and should be

### Public Notices

addressed to the Berkshire Metropolitan Planning Organization/BRPC, 1 Fenn Street, Suite 201, Pittsfield MA 01201 or via email to [info@berkshireplanning.org](mailto:info@berkshireplanning.org). The Berkshire MPO is tentatively scheduled to approve the UPWP and RTP on July 25, 2023. Please visit BRPC's website for information on how to access this meeting.

A public information meeting on the RTP will be held on Thursday, June 29 at 5:30pm, in the Athenaeum Room at the Berkshire Athenaeum.

This notice complies with the Berkshire Region MPO's Public Participation Plan and satisfies the Berkshire Regional Transit Authority's public participation process for the development of its Program of Projects.

Ad# 76484  
06/28/2023

#### Berkshire Metropolitan Planning Organization PUBLIC REVIEW AND COMMENT

The Berkshire MPO is seeking public comment on the following:

**2023-2027 Transportation Improvement Program (TIP) Amendment** - An amendment (5th

amendment) has been proposed for both the Highway and Transit Section of the TIP for the following:

**Highway Section**  
Project 608293, increase project funding by \$1,325,380, increase by \$52,124 in Statewide STBG and increase by \$2,000,000 in Statewide TAP funding.

### Public Notices

Project 610716, increase STBG funding by \$1,209,087.  
Project 608813, increase NHPP funding by \$1,497,701.

**Transit Section**  
BRTA Project BRTA011552, add project and 5310 funds \$74,645 to purchase SVC Expansion van, and add \$3,959 in GOBOND funds.  
BRTA Project BRTA011503, add project and 5310 funds \$62,883 to purchase Type A replacement vehicle, and add \$15,721 in GOBOND funds.  
BRTA Project BRTA011504, add project and 5310 funds \$105,319 to purchase Type E replacement vehicle, and add \$212,681 in GOBOND funds.

BRTA Project BRTA011553, add project and 5310 carry over funds \$93,360 to purchase replacement van, and add \$23,340 in GOBOND funds.  
BRTA Project BRTA011505, add \$116,700 in GOBOND funds for purchase of RTA replacement vehicle.

Copies of the TIP amendment can be obtained by:

1. Phone: Berkshire Regional Planning Commission (BRPC), 413-442-1521, ext. 20;  
2. BRPC web site: [www.berkshireplanning.org](http://www.berkshireplanning.org);  
3. Walk-in: BRPC, 1 Fenn Street, Suite 201, Pittsfield MA 01201.

Comments are due by 5:00 PM on July 18, 2023 and should be addressed to the Berkshire Metropolitan Planning Organization/BRPC, 1 Fenn Street, Suite 201, Pittsfield MA 01201 or via email to [info@berkshireplanning.org](mailto:info@berkshireplanning.org). The Berkshire MPO is tentatively scheduled to approve the UPWP

### Public Notices

and RTP on July 25, 2023. Please visit BRPC's website for information on how to access this meeting. This notice complies with the Berkshire Region MPO's Public Participation Plan and satisfies the Berkshire Regional Transit Authority's public participation process for the development of its Program of Projects.  
Ad# 76485  
06/28/2023

#### CITY OF NORTH ADAMS, MASSACHUSETTS

#### Conservation Commission LEGAL NOTICE Wednesday, July 5, 2023

The North Adams Conservation Commission will hold a public hearing pursuant to M.G.L. Chapter 131, Section 40, Wetlands Protection Act on Wednesday, July 5, 2023, at 6:00 p.m. in person located in North Adams City Hall, Council Chambers and via recorded teleconference at: <https://us02web.zoom.us/j/8679360244?pwd=cXlqU2V5WFNKS3dZOHkvWm1QVkg4Zz09>, passcode: 01247

Additional call in numbers can be found at: <https://www.northadams-ma.gov/calendar.php>

A Notice of Intent with assigned filed # 241-0216 submitted by SK Design Group, Inc on behalf of Berkshire Gas Company for property located at 60 Roberts Drive for Replacement of Regulator Station.

Andrew Kawczak, Chairman

### Public Notices

North Adams Conservation Commission  
Berkshire Eagle publication date: June 28, 2023  
Ad# 76483  
06/28/2023

COMMONWEALTH OF MASSACHUSETTS LAND COURT DEPARTMENT OF THE TRIAL COURT 23 SM 002469 ORDER OF NOTICE TO: Nicole Willor and to all persons entitled to the benefit of the Servicemembers Civil Relief Act, 50 U.S.C. c. 50 §3901 (et seq) Massachusetts Housing Finance Agency claiming to have an interest in a mortgage covering real property in North Adams, numbered 107 Liberty Street, given by Nicole Willor to Mortgage Electronic Registration Systems, Inc., as mortgagee, as Nominee for Academy Mortgage Corporation, dated July 29, 2022, and recorded at Berkshire County (Northern District) Registry of Deeds in Book 01798, Page 984, and now held by Plaintiff by assignment, has filed with this court a complaint for determination of Defendant's Servicemembers status. If you now are, or recently have been, in the active military service of the United States of America, then you may be entitled to the benefits of the Servicemembers Civil Relief Act.

If you object to a foreclosure of the above-mentioned property on that basis, then you or your attorney must file a written appearance and answer in this court at Three Pemberton Square, Boston, MA 02108 on or before August 7, 2023 or you may lose the opportunity to challenge the foreclosure on the ground of noncompliance with the Act.

### Public Notices

Witness, GORDON H. PIPER, Chief Justice of said Court on June 21, 2023 Attest: Deborah J. Patterson Recorder

Ad# 76456  
06/28/2023

Commonwealth of Massachusetts The Trial Court Probate and Family Court Berkshire Division 44 Bank Row Pittsfield, MA 01201 (413)442-6941

#### CITATION ON PETITION FOR FORMAL ADJUDICATION Docket No. BE23PD0484EA

Estate of Richard H. Coleman Also known as: Richard Hutchinson Coleman Date of Death: 03/05/2023

To all interested persons: A Petition for Formal Probate of Will with Appointment of Persons Representative has been filed by Susan W. Gagnon of Washington MA requesting that the Court enter a formal Decree and Order and take such other relief as requested in the Petition. The Petitioner requests that Susan W. Gagnon of Washington, MA be appointed as Persons Representative(s) of said estate to serve Without Surety on the bond in unsupervised administration.

**IMPORTANT NOTICE**  
You have the right to obtain a copy of the Petition from the Petitioner or at the Court. You have a right to object to the



Weather Updates  
North Adams: 36 °F Pittsfield: 36 °F

Members: [LOGIN](#) | [REGISTER](#)

keyword

[info@Berkshires.com](mailto:info@Berkshires.com) | [sports@Berkshires.com](mailto:sports@Berkshires.com)

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**GREYLOCK BOWL & GOLF** *Rock and Bowl* *Open Bowl*  
Friday-Saturday 5-10:30pm Saturday 12-5pm  
41 Roberts Dr. North Adams, MA 413-663-3761 **COME BOWL WITH US!**

Tell us your thoughts about **TRANSPORTATION** in Berkshire County!  
Give your input on the Community Transportation Survey.  
Attend one of three Public Information Sessions in November  
[CLICK HERE](#) or learn more at [berkshireplanning.org](http://berkshireplanning.org)



**Motor Vehicle Accident in Dalton Sends 2 to BMC**  
November 15, 2022 | 08:04PM  
Dalton first-responders and Hinsdale Police were called to 707 Main St., at Daly Avenue, at 5:21 p.m. for a crash involving two cars — a Toyota Corolla and a Kia sedan — and a GMC Acadia sport utility vehicle.



**One Treated After Single Car Crash on Main Street in Williamstown**  
November 15, 2022 | 11:49AM

## 2024 RTP Public Outreach Schedule

2024 Regional Transportation Plan (RTP) Outreach Efforts	
<b>October 2022</b>	
<b>October 21<sup>st</sup>, 2022</b>	Launch of 2024 RTP Community Transportation Survey in English and Spanish
<b>October 24<sup>th</sup>, 2022</b>	Physically distributed RTP survey flyers to the following locations: <ul style="list-style-type: none"> <li>• Clarksburg Community/Senior Center</li> <li>• Clarksburg Town Hall</li> <li>• North Adams City Hall</li> <li>• Tunnel City Café, North Adams</li> <li>• Lickety Split Café, North Adams</li> <li>• Roam, North Adams</li> <li>• Bright Ideas Brewing, North Adams</li> <li>• Williamstown Town Hall</li> <li>• John and Joyce Milne Public Library, Williamstown</li> <li>• Tunnel City Café, Williamstown</li> <li>• Where'd You Get That: Gifts for the Curious, Williamstown</li> <li>• Wild Oats Market, Williamstown</li> <li>• Adams Public Library</li> <li>• Adams Town Hall</li> <li>• Cheshire Town Hall</li> <li>• Cheshire Senior Center</li> <li>• Cheshire Public Library</li> <li>• Dalton Community Center</li> <li>• Dalton Town Hall</li> <li>• Dalton Public Library</li> <li>• Juice N' Java, Dalton</li> <li>• Angelina's Subs, Dalton</li> </ul>
<b>October 25<sup>th</sup>, 2022</b>	Presentation to Berkshire MPO on efforts to update RTP.
<b>October 28, 2022</b>	Webpage ad campaign on iBerkshires started, running through 12/17
<b>October 31<sup>st</sup>, 2022</b>	Press release advertising RTP update and public information sessions published in iBerkshires ( <a href="#">Link</a> )
<b>November 2022</b>	
<b>November 1<sup>st</sup>, 2022</b>	Press release advertising RTP update and public information sessions published on WAMC ( <a href="#">Link</a> )
<b>November 2<sup>nd</sup>, 2022</b>	RTP Public Information Session at the Berkshire Athenaeum, Pittsfield's Public Library
<b>November 5<sup>th</sup>, 2022</b>	RTP survey flyers/business cards distributed at North Adams Farmer's Market
<b>November 9<sup>th</sup>, 2022</b>	RTP survey promotion distribution sent out through Every-Door-Direct-Mail (EDDM) to roughly 6,800 addresses located in <a href="#">Justice40 designated communities</a> .
<b>November 10<sup>th</sup>, 2022</b>	RTP Public Information Session at the North Adams City Hall.
<b>November 16<sup>th</sup>, 2022</b>	RTP Public Information Session at the Great Barrington Fire House
<b>November 29<sup>th</sup>, 2022</b>	Email outreach to all town admins, assistants, select boards – request to share links to survey and to print/hang flyers in town halls/public forums

# Transit Asset Management and Transit Safety Plans

## Berkshire Regional Transit Authority Transit Asset Management Plan

The Berkshire Regional Transit Authority (BRTA) provides public transportation services to its 25 member communities within Berkshire County, the western most region of Massachusetts. The BRTA's daily service area spans a region as large as Rhode Island; bordered by Vermont to the north, New York to the west, and Connecticut to the south. Fixed route service is provided by fourteen bus routes in 12 communities from Williamstown to Great Barrington, Monday through Saturday. Paratransit services are provided to eligible persons from the BRTA's member communities for ambulatory, non-ambulatory, or complementary paratransit ADA service. BRTA serves as the conduit for communities to acquire Mobility Access Program (MAP) vehicles from MassDOT to transport their elderly and disabled residents. BRTA maintains the MAP vehicle fleet.

### Performance Targets & Measures

Asset Class	Performance Measure	Target
<b>Rolling Stock</b>	<b>Age</b> - % of revenue vehicles within a particular asset class that have met or exceeded their Useful Life Benchmark (ULB)	<b>Marginal rate 20% or less. Poor rate of 10% or less</b>
<i>All revenue vehicles: fixed route, paratransit, and MAP</i>		
<b>Equipment</b>	<b>Age</b> - % of vehicles that have met or exceeded their Useful Life Benchmark (ULB)	<b>Marginal rate 20% or less. Poor rate of 10% or less</b>
<i>Non-revenue support vehicles, stations, systems, and equipment</i>		
<b>Facilities</b>	<b>Condition</b> - % of facilities with a condition rating below 3.0 on the FTA Transit Economic Requirements Model (TERM) Scale	<b>Marginal rate 20% or less. Poor rate of 10% or less Total asset rating above 3 on the TERM scale</b>
<i>All buildings or structures</i>		

Because BRTA uses various sized vehicles in the fixed route service, we cannot apply a blanket useful life number of years for the fleet. The large BRTA service area ensures that all revenue vehicles will exceed their useful life by mileage before their age. The heavy-duty vehicles will surpass 500,000 miles before 10 years while the cutaway vehicles will surpass 250,000 miles in year 7. The high mileage combined with the road salt used during the winter months, makes vehicle structure failures the main reason to retire assets.

The rolling stock target is set by utilizing the thingtech software Vehicles-State of Good Repair Ratings report and any vehicle with less than an adequate rating (marginal or

poor) will be replaced. The current State of Good Repair (SGR) data shows a marginal percentage of 19.4% and a poor percentage of 3.2% for fixed route revenue vehicles; a 20.8% marginal rate and 25% poor rate for MAP vehicles; and a 40% marginal rate for the paratransit fleet. BRTA's TERM rating for revenue vehicles is 3.20 or adequate.

The equipment target is set utilizing thingtech's State of Good Repair report to replace nonrevenue vehicles, stations, systems, and equipment with less than an adequate rating (marginal or poor). The current SGR report contains a marginal rate of 12.5% and a poor rate of 43.8% for the non-revenue vehicles; a 46.1% marginal rate and a 6.3% poor rating for stations; and a 3.3% marginal rate and a 11.5% poor rate for systems. BRTA's TERM rating for equipment is 3.06 or adequate.

The facilities target is set also utilizing thingtech's State of Good Repair report to replace components of facilities with less than an adequate rating (marginal or poor). The current SGR report contains a marginal rate of 16% and a poor rate of 20% for facilities. BRTA's TERM rating for facilities is 3.35 or adequate.

The current overall TERM rating of all BRTA assets including rolling stock, equipment, facilities, stations, and systems is 3.29 or adequate.

**Asset Portfolio**

Please see Appendix A (Asset List) for the asset inventory listing.

**Asset Inventory Summary**

<b>Asset Category</b>	<b>Total Number</b>	<b>Average Age</b>	<b>Average Value</b>
Equipment	90	4.91033	\$39,207.66
Facilities	101	8.01248	\$150,839.91
Rolling Stock	80	4.50713	\$86,826.24

**Condition Assessment**

Please see Appendix A (Asset List) for individual asset condition listing under the Lifecycle column.

**Asset Condition Summary**

<b>Asset Category</b>	<b>Count</b>	<b>Average Age</b>	<b>Average TERM Condition</b>	<b>Average Value</b>	<b>% At or Past ULB</b>
Equipment	90	4.91033	N/A	\$39,207.66	18.89%
Facilities	101	8.01248	3.45	\$150,839.91	26.04%
Rolling Stock	80	4.50713	N/A	\$86,826.24	20.00%



## Management Approach

### Investment Prioritization

Assets are reviewed and purchases planned with transit vehicles and maintenance receiving the highest priority.

Future spending projects include: hybrid/diesel and electric buses with charging stations, satellite facility in North Berkshire County, and increased service hours and frequency.

### Decision Support Tools

The following tools are used in making investment decisions:

Process/Tool	Brief Description
10 year Capital Plan	Project year by year what assets will be less than adequate and the lead time to replenish. A 30 ' heavy duty bus will take up to 2 years to place into service once ordered. Funding allocations using Federal and State sources to align with expenditures.

Before assets reach a marginal status, their condition will be reviewed and added to the replacement schedule depending upon lead time, cost, and urgency. Vehicles are placed on the replacement schedule based upon FTA useful life charts, then adjusted near their life end to ensure the fleet is roadworthy.

Last Modified December 30, 2016



### 3. Safety Performance Targets

#### Safety Performance Targets

Specify performance targets based on the safety performance measures established under the National Public Transportation Safety Plan.

The targets below are based on the review of the previous five years of BRTA's safety performance data.

Mode of Transit Service	Fatalities (Total)	Fatalities (Rate)	Injuries (Total)	Injuries (Rate)	Safety Events (Total)	Safety Events (Rate)	System Reliability (Miles between Major Failures)
Fixed Route	0	0	4	4.2	3	3.2	80,000
Paratransit	0	0	0	0	0	0	150,000

\*Rates are per 1,000,000 vehicle revenue miles

#### Safety Performance Target Coordination

Describe the coordination with the State and Metropolitan Planning Organization(s) (MPO) in the selection of State and MPO safety performance targets.

The Accountable Executive will share the ASP, including safety performance targets, with the Berkshire Metropolitan Planning Organization (MPO) each year after its formal adoption by the BRTA Advisory Board. BRTA's Accountable Executive will also provide a copy of the formally adopted plan to the Massachusetts Department of Transportation (MassDOT). BRTA staff are available to coordinate with MassDOT and the MPO in the selection of MassDOT and MPO safety performance targets upon request.

Targets Transmitted to the State	State Entity Name	Date Targets Transmitted
	MassDOT	05/28/20
Targets Transmitted to the MPOs	MPO Name	Date Targets Transmitted
	Berkshire Regional Planning Commission	

# Level of Travel Time Reliability and Truck Travel Time Reliability

## Reliability, Congestion, & Emissions Performance Measures (PM3)

BRPC has chosen to adopt the 2-year (2024) and 4-year (2026) statewide reliability, congestion, and emissions performance measure targets set by MassDOT. MassDOT was required to adopt a statewide target by December 16, 2022, with MPOs either adopting the statewide target or establishing their own by June 2023.

MassDOT followed FHWA regulation in measuring Level of Travel Time Reliability (LOTTR) on both the Interstate and non-Interstate NHS as well as Truck Travel Time Reliability (TTTR) on the Interstate system using the National Performance Management Research Dataset (NPMRDS) provided by FHWA. These performance measures aim to identify the predictability of travel times on the roadway network by comparing the average travel time along a given segment against longer travel times. For LOTTR, the performance of all segments of the Interstate and of the non-Interstate NHS are defined as either reliable or unreliable based on a comparison between the 50<sup>th</sup> percentile travel time and the 80<sup>th</sup> percentile travel time, and the proportion of reliable segments is reported. For TTTR, the ratio between the 50<sup>th</sup> percentile travel time and the 90<sup>th</sup> percentile travel time for trucks only along the Interstate system is reported as a statewide measure.

Emissions reduction targets are measured as the sum total of all emissions reductions anticipated through CMAQ-funded projects in non-attainment or air quality maintenance areas (currently the cities of Lowell, Springfield, Waltham, and Worcester, and the town of Oak Bluffs) identified in the Statewide Transportation Improvement Program (STIP). This anticipated emissions reduction is calculated using the existing CMAQ processes.

Measure	Current (2021)	2-year (2023)	4-year (2025)
Interstate LOTTR	84.2%	74.0%	76.0%
Non-Interstate LOTTR	87.2%	85.0%	87.0%
TTTR	1.61	1.80	1.75
PHED (Boston UZA)	18.0	24.0	22.0
PHED (Springfield UZA)	6.2	6.5	6.0
PHED (Worcester UZA)	6.8	7.0	5.0
% non-SOV (Boston UZA)	36.9%	38.8%	39.8%
% non-SOV (Springfield UZA)	21.5%	22.2%	22.2%
% non-SOV (Worcester UZA)	23.4%	25.4%	26.1%
Emissions Reductions: PM2.5			
Emissions Reductions: NOx	0.490	0.000	0.000
Emissions Reductions: VOC	0.534	0.000	0.000
Emissions Reductions: PM10			
Emissions Reductions: CO	6.637	0.354	0.354

# SUPPLEMENTAL TIP INFORMATION

## 2024-2028 TIP Project Scoring Criteria

Project ID	Project	Town/City	Road Condition	Mobility	Reg. Connectivity	Goods Movement	Safety	Environment	GHG Emissions	Livability	Total Project Score	Project Cost	Project Design Status (MassDOT)	CMAQ Eligible	HSP Eligible	Most Recent PASER Rating	Programmed in FFY 2024-2028 TIP
604003	EAST STREET (LYMAN ST TO MERRILL RD)	PITTSFIELD	Project will construct new road, or will strengthen existing pavement structure (not surface only) of existing road or will improve sub-standard or poorly functioning drainage.	Project will reduce vehicle delay at intersections (LOS C or worse) and/or improve through-lane(s) capacity along a corridor.	Improves Principal Arterial, or minor arterial/collector with no alternate route.	Project will make geometric improvements at intersections or along a corridor to facilitate truck movement (3 axle ADT greater than 50).	Improves safety at location where accident rate exceeds the State average.	Project has positive (not neutral) effect on water quality, wildlife, or other natural features.	Project has positive (not neutral) effect on GHG emissions reduction/air quality.	Meets at least two of these standards: Supports economic development, increase use of alternate modes, or benefits defined EJ populations.	6	\$10,423,290	75%			5	2024
608737	DALTON DIVISION ROAD	DALTON	1	0	1	1	1	0	1	1	6	\$9,888,000	<25%	✓		6	2028 & 2029
608768	MERRILL ROAD (ROUTE 9)	PITTSFIELD	1	0	1	1	1	0	1	1	6	\$8,152,035	25%		✓	4	2027
609292	EAST STREET (LYMAN ST TO ELM ST)	PITTSFIELD	1	0	1	1	1	0	1	1	6	\$5,000,000	<25%	✓	✓	4	2028
609277	ASHLAND STREET	NORTH ADAMS	1	1	0	1	1	0	1	1	6	\$9,026,874	75%	✓		5	2025
611970	ROUTE 20 (MAIN ST, PARK ST) @ WEST PARK ST	LEE	0	1	1	1	1	0	1	1	6	\$3,880,875	<25%	✓		NA	2027 (NHPP)
609465	ROUTE 7 & ROUTE 23	GREAT BARRINGTON	1	0	1	0	1	0	1	1	5	\$12,700,000	<25%	✓		5	
609215	SOUTH MAIN STREET (ROUTE 7)	GREAT BARRINGTON	1	0	1	0	0	0	1	1	4	\$6,931,990	<25%			6	
608547	MOUNT WASHINGTON ROAD	ESREIMONT	1	0	1	1	0	1	0	0	4	\$12,902,874	<75%			5	2026 & 2027
608472	ROUTE 43	WILLIAMSTOWN	1	0	0	1	0	0	1	1	4	\$18,336,200	25%			5	
609256	ROUTE 7	LANESBOROUGH	1	0	1	0	0	0	1	0	3	\$3,400,000	<25%			7	2027 (NHPP)
613074	ROUTE 7 RETAINING WALL	WILLIAMSTOWN	1	0	1	1	0	0	0	0	3	\$3,458,138	<25%			NA	
613053	ROUTE 20 @ PLUNKETT ST 7 BLANTYRE RD	LENOX	0	0	1	0	1	0	0	0	2	\$1,544,650	<25%		✓	8	2027 (HSIP)
612891	ROUTE 7 ACCESS IMPROVEMENT AT MOUT GREYLOCK SCHOOL	WILLIAMSTOWN	0	0	1	0	0	0	0	0	1	\$500,000	<25%		✓	5	
613093	ROUTE 7	WILLIAMSTOWN	0	0	1	0	0	0	0	0	1	\$5,255,000	<25%			5	

## Federal Transportation Funding Sources

A summary description of each funding program contained in the TIP follows. Which funding program a project qualifies for can be a limiting factor in how quickly it can be implemented. In some categories, many projects are competing for a part of the state's allocation, while in other categories, there may be less competition for the available funding. Therefore, it is important to recognize that certain projects may appear to be overlooked but may only be a victim of the limits of available funding in their category.

ARRA: AMERICAN RECOVERY AND REINVESTMENT ACT of 2009.

BR: BRIDGE PROGRAM Federal funds available to Massachusetts for the necessary replacement or repair of bridges in rural and urban areas. The Federal share is 80 percent, and the State share is 20 percent. Federally funded bridges are categorized as either ON or OFF, depending on whether the roads they are on or off of the federal-aid highway system.

CMAQ: CONGESTION MITIGATION AND AIR QUALITY IMPROVEMENT PROGRAM - Projects included in this category must contribute to the attainment of a national ambient air quality standard. The Federal share is 80 percent, and the State share is 20 percent. Funds from this FHWA program can be transferred to transit projects in accordance with MAP-21.

HPP: HIGH PRIORITY PROJECTS – FHWA funding designated by members of Congress for specific projects under TEA-21 or SAFETEA-LU. The federal share is 80 percent, and the state share is 20 percent, although some earmarks have been 100 percent federally funded.

HSIP: HIGHWAY SAFETY IMPROVEMENT PROGRAM – Projects included in this category should demonstrate the highway safety improvements. The Federal share is 90 percent, and the State share is 10 percent.

NFA: NON FEDERAL AID – Funds may be derived from state or local sources for transportation projects. Generally, state-funded projects shown in the TIP are bond-funded bridge projects.

NGBP: NEW GENERATION BRIDGE PROGRAM

NHPP: NATIONAL HIGHWAY PERFORMANCE PROGRAM – This is the funding source that provides funding for construction and maintenance projects located on the NHS.

NHFP: NATIONAL HIGHWAY FREIGHT PROGRAM - To improve the efficient movement of freight on the National Highway Freight Network (NHFN) and support several goals.

STBG: SURFACE TRANSPORTATION BLOCK GRANT PROGRAM – This is the most common source of funding for regional highway projects in the TIP. Eligible projects include the construction, reconstruction, rehabilitation, resurfacing, restoration, and operational improvements for highways (including Interstate highways) and bridges. The Federal share is 80 percent and the State share is 20 percent.

STBG-TE: TRANSPORTATION ENHANCEMENTS - Landscaping, pedestrian and bicycle facilities, scenic easements, preservation of abandoned RR ROW, mitigation, and the like. The Federal share is 80 percent and the State share is 20 percent.

STPP: Surface Transportation Priorities Project earmark.

Sec.115: SECTION 115 of the Transportation Appropriations Act of 2004, which set aside FHWA funding designated by members of Congress for specific projects.

Sec.117: SECTION 117 of the Transportation Appropriations Act of 2005, which set aside FHWA funding designated by members of Congress for specific projects.

Sec.112: SECTION 112 of the Transportation Appropriations Act of 2006, which set aside FHWA funding designated by members of Congress for specific projects.

STP-BR-Off: Off – System Bridges.

SRTS: Safe Routes to School.

SBYWY: Scenic Byways.

TAP: Transportation Alternatives Program.

TCSP: TRANSPORTATION, COMMUNICATION & SYSTEM PRESERVATION EARMARK.

TI: Transportation Improvement Project earmark.

UNDET: UNDETERMINED – Shown for projects for which no funding is reasonably expected to be available at this time.

Other FA: Other Federal Aid not already categorized.

### **TRANSIT FUNDING PROGRAMS**

5307: TRANSIT OPERATING/CAPITAL - Previously known as Section 9, the FTA Act provides a formula grant program for the support of urban public transit operations and capital projects. Funds available to the Pittsfield area are apportioned by FTA. Federal operating assistance under this program may not exceed 50% of the net cost of service. Section 5307 funds for capital are derived from the formula program that also includes operating assistance. Federal support of approved projects is generally 80 percent, with the balance supported by State and/or local funds.

5309: TRANSIT CAPITAL ASSISTANCE - Federal assistance to support public transit capital needs. Previously known as Section 3, these Section 5309 funds are discretionary and are often earmarked by Congress before being made available for distribution by FTA. Federal support of approved projects is generally 80 percent, with the balance supported by State and/or local funds, although some Section 5309 earmarks have been 100% federally funded.

5310: PARATRANSIT VANS - FTA funding, administered through the MassDOT for the acquisition of vans for the elderly and disabled. Previously known as Section 16(b)2, the Federal share for Section 5310 funds is 80 percent and the State share is 20 percent.

5311: RURAL TRANSIT FUNDING - FTA funding, administered through the MassDOT for public transportation in non urbanized areas. Previously known as Section 18, these Section 5311 funds may be used for both capital and operating projects.

# Current Berkshire TIP Projects

## Berkshire TIP 2024-2028 by Year

### Highway

- 2024
- 2025
- 2026
- 2027
- 2028

### Bridges

- 2024
- 2025
- 2026
- 2027
- 2028

### Intersections

- 2025
- 2027

### Bike/Pedestrian Trails

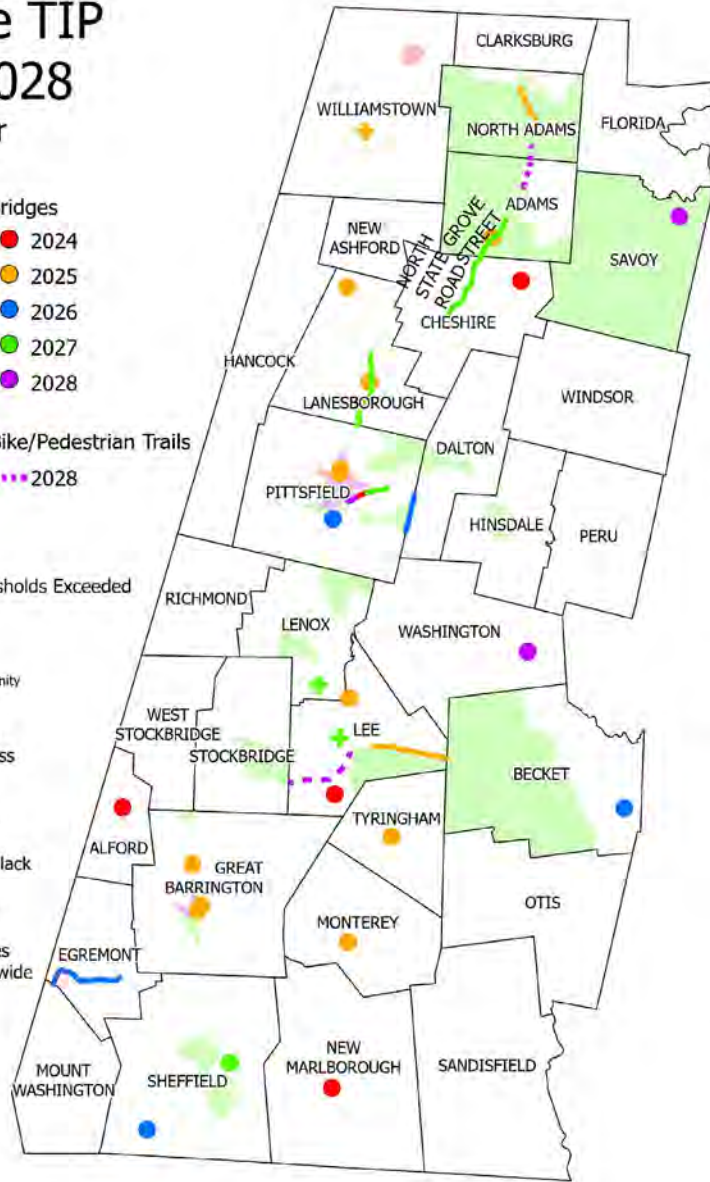
- 2028

### Environmental Justice Thresholds Exceeded

- No EJ Community
- Minority EJ Community
- Income EJ Community
- Minority and Income EJ Community

### Environmental Justice Criteria

- Median household income less than 65% of the statewide median household income;
- Minorities comprise 40% or more of the population;
- 25% or more of households lack English language proficiency
- Minorities comprise 25% or more of the population and median household income does not exceed 150% of the statewide median household income.



# Past Berkshire TIP Projects by Community

## TIP Projects by Community

This map highlights communities where TIP projects were programmed from FFY2011-2023. For specific information on the projects, please see the tables on the following page.

### Project Type

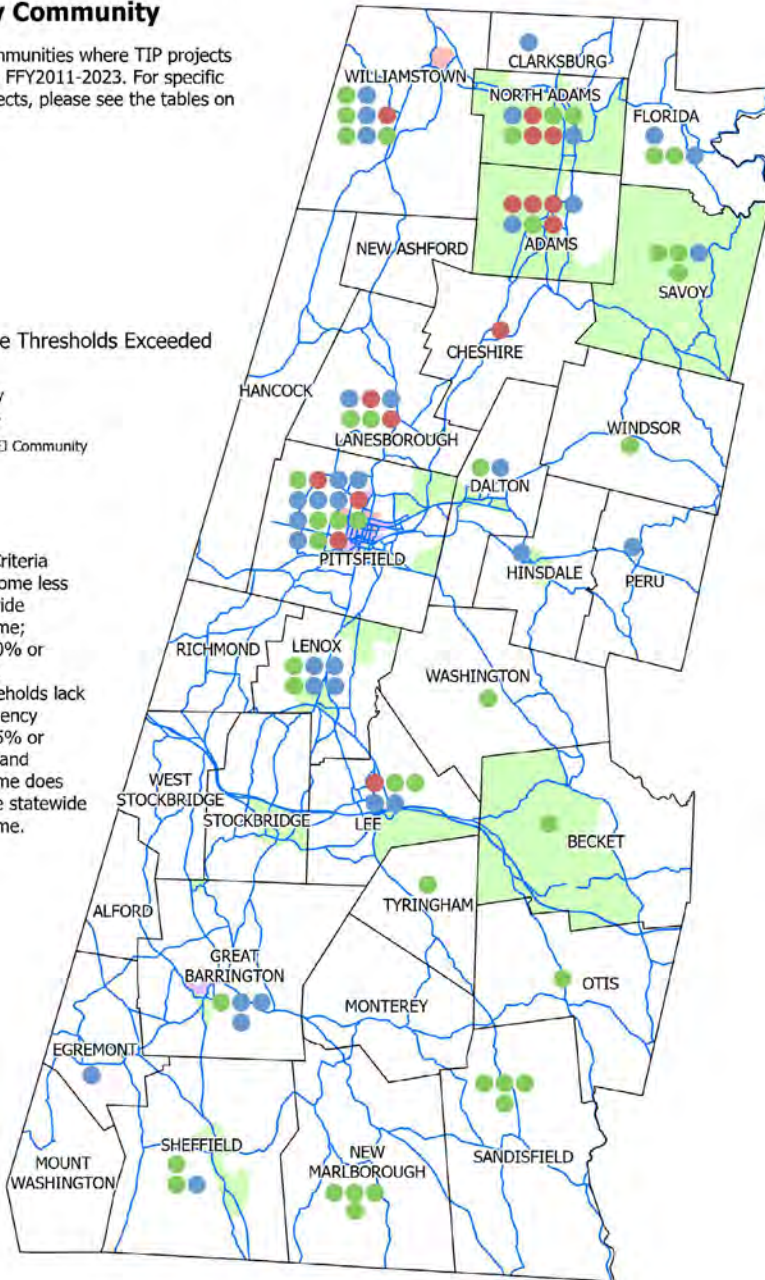
- Bike
- Bridge
- Highway

### Environmental Justice Thresholds Exceeded

- No EJ Community
- Minority EJ Community
- Income EJ Community
- Minority and Income EJ Community

### Environmental Justice Criteria

- Median household income less than 65% of the statewide median household income;
- Minorities comprise 40% or more of the population;
- 25% or more of households lack English language proficiency
- Minorities comprise 25% or more of the population and median household income does not exceed 150% of the statewide median household income.





The following tables lists TIP projects programmed from FFY 2011 – 2023 in the Berkshire MPO region.

### Highway Projects (FFY 2011 – 2023)

Project ID	Community	Project Description	FFY	GHG Analysis	Benefits/ Burdens at EJ Population
602937	Lenox	Route 183/ West St Rehabilitation, Repavement, Drainage Improvements; Main St to Stockbridge TL.	2011	Qualitative Decrease in Emissions	Benefits an EJ Population
601078	Pittsfield	Route 7/20, South St Rehabilitation; Berkshire Life to West Housatonic St	2011 & 2012	Qualitative Decrease in Emissions	Benefits an EJ Population
605793	Pittsfield	North St & Lower Wahconah St Intersection Safety Improvements	2011	Qualitative Decrease in Emissions	Benefits an EJ Population
602182	Great Barrington	Reconstruction of Main Street (Route 7)	2013	Qualitative Decrease in Emissions	Benefits an EJ Population
601320	Lee	Reconstruction of Tyringham Rd	2013, 2014 & 2015	Qualitative - No Assumed Impact/Negligible Impact on Emissions	Benefits an EJ Population
604553	Adams	Roundabout Construction at Route 8 & Friend St	2014	Quantified Decrease in Emissions (210,	Benefits an EJ Population
607745	Lenox	Intersection & Signal Improvements at US 7 & US 20 (Veteran's Memorial Highway) @ SR 183 (Walker St)	2015	Qualitative - Assumed Nominal Decrease in Emissions from Other Improvements	Adjacent to EJ Population
602280	Dalton	Housatonic Street, Reconstruction; Route 8 & 9 to Route 8	2015, 2016 & 2017	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure: (-5032 Kg/Yr)	Benefits an EJ Population
605887	Sheffield – Great Barrington	Route 7, Resurfacing and related work	2015	Qualitative Decrease in Emissions	Benefits an EJ Population
606544	Lenox - Pittsfield	Route 7, Resurfacing and related work	2015	Qualitative Decrease in Emissions	Benefits an EJ Population
607900	Pittsfield	Traffic Signal and Intersection Improvements at Center St and	2016	Quantified Decrease in	Benefits an EJ

		West Housatonic St		Emissions from Traffic Operational Improvement: (-34,012 Kg/Yr)	Population
605799	Williamstown	Route 43, Reconstruction and related work	2017	Qualitative Decrease in Emissions	Benefits an EJ Population
608167	Clarksburg	Route 8, Resurfacing and related work	2017	Qualitative Decrease in Emissions	Benefits an EJ Population
607429	North Adams	Intersection improvements at route 2 & Phelps Avenue	2018	Qualitative Decrease in Emissions	Benefits an EJ Population
606462	Lenox	Reconstruction and Minor Widening on Walker Street	2018 & 2019	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure: (-6202 Kg/Yr)	Not an EJ Area
607760	Pittsfield	Intersections & traffic Signal Improvements at Nine locations along Routs 8 & 9	2019	Qualitative Decrease in Emissions	Benefits an EJ Population
608812	Florida, Savoy	Resurfacing and related work on Route 2	2019	Qualitative Decrease in Emissions	Not an EJ Area
607328	Adams	Pavement Rehabilitation and related work on Route 8	2020	Qualitative Decrease in Emissions	Benefits an EJ Population
607756	Great Barrington	Intersection and Signal Improvements on Route 7 at Maple Ave (Route 23/41)	2020	Qualitative Decrease in Emissions	Benefits an EJ Population
609104	Lee	Resurfacing and related work on Route 20	2020	Qualitative Decrease in Emissions	Benefits an EJ Population
608486	Williamstown	Resurfacing and related work on Route 43	2020	Qualitative Decrease in Emissions	Benefits an EJ Population
606406	Hinsdale Peru	Reconstruction of Skyline Trail (Middlefield Road)	2021	Qualitative Decrease in Emissions	Benefits an EJ Population
608485	Lanesborough Pittsfield	Resurfacing and Related Work on Route 8 (MM 44.43 to MM 47.77	2021	Qualitative Decrease in Emissions	Benefits an EJ Population
609105	Windsor	Pavement Preservation and Related Work on Route 9	2021	Qualitative Decrease in Emissions	Benefits an EJ Population
609103	Florida North Adams	Resurfacing and related work on Route 2	2022	Qualitative Decrease in Emissions	Benefits an EJ Population

608767	Egremont	Reconstruction and related work on Route 23/41	2022	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure: (-11 Kg/Yr)	Not an EJ Area
608813	Lanesborough	Resurfacing and related work on Route 7	2023	Qualitative Decrease in Emissions	Not an EJ Area
606233	Pittsfield	Intersection Improvements at First Street - North Street – Tyler Street (Berkshire Medical Center)	2023	Qualitative Decrease in Emissions	Benefits an EJ Population
610716	Williamstown	Intersection Improvements at Route 7 and Route 43	2023	Qualitative Decrease in Emissions	Benefits an EJ Population

### Bridge Projects (FFY 2011 – 2023)

Project ID	Community	Project Description	FFY
605233	Florida - Savoy	Route 2 over the Cold River; Bridge Preservation	2011
606029	Lanesborough	Miner Rd over Town Brook; Bridge Replacement	2011
605440	Becket	Us Route 20 over Cushman Brook & Walker Brook; Bridge Replacement	2011
601806	North Adams	Route 8, Hadley Overpass; Bridge Reconstruction	2011 & 2012
607112	Sandisfield	Clark Rd over the Farmington River; Bridge Replacement	2013
607241	Sandisfield	Route 8 (South Main St) over Silvernail Brook; Bridge Maintenance	2013
605935	Williamstown	Hooper Rd over Green River; Bridge Replacement	2014
606706	Pittsfield	Woodlawn Ave over CSX Railroad; Bridge Replacement	2014
607469	Sandisfield	Route 8 (South Main St) over W. Branch of Farmington River; Bridge Maintenance	2014
607510	Sandisfield	Route 8 (South Main St) over W. Branch of Farmington River Phase – II; Bridge Maintenance	2015
605299	Great Barrington	SR 183 (Park St) over Housatonic River	2015 & 2016
607121	Savoy	River Rd over the Westfield River; Bridge Replacement	2015
607511	Dalton	Route 8 (Main St) over E. Branch of Housatonic River	2016
605314	New Marlborough	Hadsell St over Umpachene River; Superstructure Replacement	2016
607116	Florida	South County Rd over the Cold River; Bridge Replacement	2016
603778	Lanesborough	Narragansett Ave over Pontoosuc Lake	2016
605350	Washington	Summit Hill Rd over CSX R.R; Superstructure Replacement	2016

607550	Lee	Chapel St over Greenwater Brook; Superstructure Replacement	2017
607551	Lee - Lenox	Valley St over Housatonic River; Bridge Replacement	2017
608125	Sheffield	Route 7A (Ashley Falls Rd) over Housatonic River; Bridge Replacement	2018
608263	Sheffield	Berkshire School Road over Schenob Brook, Bridge Replacement	2019
608243	New Marlborough	Umpachene Falls over Konkapot River, Bridge Replacement	2019
608523	Pittsfield	New Road over W. Branch of Housatonic River, Bridge Replacement	2019
603255	Pittsfield	Lakeway Drive over Onota lake, Bridge Replacement	2019
609161	Adams	Route 8 over Ashwillticook Trail & Hoosic River, Systematic Bridge Maintenance	2019
608646	Tyringham	Monerey Road over Hop Brook, Bridge Replacement	2019
608645	New Marlborough	Campbell Falls Road over Whiting River, Bridge Replacement	2020
609164	North Adams	Route 2 over Hoosic River, Systematic Bridge Maintenance	2021
605356	Williamstown	Main Street/ Route 2 over the Green River, Bridge Replacement	2021
608636	Lenox	Superstructure Replacement (L-07-006) Roaring Brook Road over Roaring Brook	2021
608642	New Marlborough	Superstructure Replacement of Three (3) Bridges, N-08-001, Norfolk Road, N-08-017, Lumbert Road, and N-08-018, Canaan-Southfield	2021
608854	Pittsfield	Bridge Replacement (P-10-034) Mill St over W. Branch Housatonic River	2021
608647	Savoy	Superstructure Replacement (S-06-003) Center Road over Center Brook	2021
608856	Otis	Bridge Replacement (O-05-007) Tannery Rd. over W. Branch of the Farmington River	2021
608860	Pittsfield	Bridge Replacement (P-10-055) East New Lenox Road over Sackett Brook	2022
609162	Williamstown	Systematic Bridge Maintenance (W-37-013) Route 7 (Moody Bridge) over Hoosic River & PAN-AM RR	2022
611955	Pittsfield	Superstructure Replacement (P-10-002) Holmes Road Housatonic Railroad	2022
605843	North Adams	Bridge Replacement (N-14-016) Route 2 over the Hoosic River	2023
609072	Williamstown	Bridge Replacement (W-37-010) Main Street over Hemlock Brook	2023

### Bike/ Pedestrian Trail Projects (FFY 2011 – 2022)

Project ID	Community	Project Description	FFY
604552	North Adams	Mohawk Trail, Scenic Byway Historic Preservation	2012
607254	North Adams	Mohawk Bike/Pedestrian Trail Phase - II	2013
606908	Pittsfield	Safe Routes to School (Conte School)	2013
605041	Adams	Ashuwillticook Rail Trail Extension	2014
607570	Lee	Lee – Bikeway (Planning & Design)	2014
605930	Adams	Mount Greylock Scenic Byways Summit Improvements	2014 & 2015
606890	Adams – North Adams	Ashuwillticook Rail Trail Extension to Route 8A (Hodges Cross Rd) – Design	2016
608351	Adams, Cheshire, Lanesborough	Resurfacing Ashuwillticook Bike trail from Pittsfield T.L. to the Adams Visitor Center	2019
606891	Lanesborough Pittsfield	Ashuwillticook Rail Trail Extension to Crane Avenue	2020
607254	Williamstown	Mohawk Bicycle/Pedestrian Trail Construction	2020
609237	Pittsfield	Ashuwillticook Rail Trail Extension from Crane Avenue to Merrill Road	2023

# Current TIP Greenhouse Gas (GHG) Analysis

## 2024-2028 Transportation Improvement Program Greenhouse Gas Monitoring and Evaluation

### Introduction

This section summarizes the greenhouse gas (GHG) impacts that are anticipated to result from the projects that are included in this FFY 2024 – 2028 Transportation Improvement Program (TIP). It includes a summary of the state laws and policies that call for reducing greenhouse gas in order to mitigate global climate change, actions that are being to respond to these state laws and policies, the role of regional planning and TIP development in reducing GHG emission and tracking these reductions, and the projected GHG emission impacts from the projects programmed in the TIP.

### State Policy Context

The Global Warming Solutions Act (GWSA), which was signed into law in August 2008, makes Massachusetts a leader in setting aggressive and enforceable GHG reduction targets, and implementing policies and initiatives to achieve these targets. In keeping with the law, on December 29, 2010 the Massachusetts Executive Office of Energy and Environmental Affairs (EOEEA), in consultation with other state agencies and the public, released the Massachusetts *Clean Energy and Climate Plan for 2020*. In December 2014, the Department of Environmental Protection issued new regulations that require Metropolitan Planning Organizations to quantify impacts from project investments, track progress towards reductions, and consider impacts in the prioritization of GHG impacts from project investments. The targets for overall statewide GHG emissions are:



### The role of Metropolitan Planning Organizations

The Commonwealth’s thirteen metropolitan planning organizations (MPOs) are integrally involved in supporting the GHG reductions mandated under the GWSA. The MPOs are most directly involved in helping to achieve the GHG emissions reductions through the promotion of healthy transportation modes through prioritizing and programming an appropriate balance of roadway, transit, bicycle and pedestrian investments – and assisting smart growth development patterns through the creation of a balanced multi-modal transportation system. This will be realized through the transportation goals and policies espoused in the 2024 Regional Transportation Plans (RTPs), the major projects planned in the RTPs, and the mix of new transportation projects that are programmed and implemented through the TIPs. The GHG tracking and evaluation processes enable the MPOs to identify the anticipated GHG impacts of the planned and programmed projects, and to use GHG impacts as a criterion in prioritizing transportation projects.

## Regional GHG Tracking and Evaluation in RTPs

MassDOT coordinated with MPOs and regional planning agency (RPA) staffs on the implementation of GHG tracking and evaluation in development of each MPO's 2035 RTPs, which were adopted in September 2011. This collaboration has continued for the MPO's 2044 RTPs and 2024 -2028 TIPs.

Working together, MassDOT and the MPOs have attained the following milestones:

- Modeling and long-range statewide projections for GHG emissions resulting from the transportation sector. Using the Boston MPO's regional model and the statewide travel demand model for the remainder of the state, GHG emissions were projected for 2024 no-build and build conditions, and for 2044 no-build and build conditions.
- All the MPOs included these GHG emission projections in their RTPs, along with a discussion of climate change and a statement of MPO support for reducing GHG emissions as a regional goal.

## Project-Level GHG Tracking and Evaluation in the Transportation Improvement Program

It is also important to monitor and evaluate the GHG impacts of the transportation projects that are programmed in the MPO Transportation Improvement Programs (TIP). The TIP includes both the larger, regionally significant projects from the RTPs, which have already had their aggregate GHG impacts calculated and reported in the RTP, as well as smaller projects that are not included in the RTP but that may nevertheless have impacts on GHG emissions. The principal objective of this tracking is to enable the MPOs to evaluate expected GHG impacts of different projects and to use this information as a criterion for prioritizing and programming projects in future TIPs.

In order to monitor and evaluate the GHG impacts of TIP projects, MassDOT and the MPOs have developed the following approach for identifying anticipated GHG impacts and quantifying GHG impacts of projects, when appropriate, through the TIP. Different types of projects will have different anticipated GHG emissions impacts. The different project categories are outlined on the next two pages with this region's project tracking sheet on the third page.

## Calculation of GHG Impacts for TIP Projects

The Office of Transportation Planning at MassDOT provided the spreadsheets that are used for determining Congestion Management and Air Quality Improvement (CMAQ) eligibility. These spreadsheets require the same inputs as the CMAQ calculations and have been adapted to provide CO<sub>2</sub> impacts. The data and analysis required for these calculations is available from functional design reports that should be submitted for projects that would produce a measurable GHG impact.



Projects  
with  
Quantified  
Impacts

**RTP Projects** - Major capacity expansion projects would be expected to have a significant impact on GHG emissions. However, these projects are included in the RTPs and analyzed using the statewide model or Boston regional model, which would reflect their GHG impacts. Therefore, no independent TIP calculations are required.

**Quantified Decrease in Emissions** - Projects that would be expected to produce a measurable decrease in emissions. The approach for calculating these impacts is described below. These projects should be categorized in the following manner:

- **Quantified Decrease in Emissions from Traffic Operational Improvement** - An intersection reconstruction or signalization project that is projected to reduce delay and congestion.
- **Quantified Decrease in Emissions from Pedestrian and Bicycle Infrastructure** - A shared-use path that would enable increased walking and biking and decreased vehicle-miles traveled (VMT).
- **Quantified Decrease in Emissions from New/Additional Transit Service** - A bus or shuttle service that would enable increased transit ridership and decreased VMT.
- **Quantified Decrease in Emissions from a Park and Ride Lot** - A park-and-ride lot that would enable increased transit ridership/ increased ridesharing and decreased VMT.
- **Quantified Decrease in Emissions from Bus Replacement** - A bus replacement that would directly reduce GHG emissions generated by that bus service.
- **Quantified Decrease in Emissions from Complete Streets Improvements** - Improvements to roadway networks that include the addition of bicycle and pedestrian accommodations where none were present before.

**Quantified Increase in Emissions** - Projects that would be expected to produce a measurable increase in emissions.





Projects  
with  
Assumed  
Impacts

**No Assumed Impact/Negligible Impact on Emission** - Projects that do not change the capacity or use of a facility (e.g. a resurfacing project that restores a roadway to its previous condition, or a bridge rehabilitation/replacement that restores the bridge to its previous condition) would be assumed to have no GHG impact.

**Assumed Nominal Decrease in Emissions** - Projects that would be expected to produce a minor decrease in emissions that cannot be calculated with any precision. Examples of such projects include roadway repaving or reconstruction projects that add a new sidewalk or new bike lanes. Such a project would enable increased travel by walking or bicycling, but there may be not data or analysis to support any projections of GHG impacts. These projects should be categorized in the following manner:

- **Assumed Nominal Decrease in Emissions from Sidewalk Infrastructure**
- **Assumed Nominal Decrease in Emissions from Bicycle Infrastructure**
- **Assumed Nominal Decrease in Emissions from Sidewalk and Bicycle Infrastructure**
- **Assumed Nominal Decrease in Emissions from Intelligent Transportation Systems (ITS) and/or Traffic Operational Improvements**
- **Assumed Nominal Decrease in Emissions from Other Improvements**

**Assumed Nominal Increase in Emissions** - Projects that would be expected to produce a minor increase in emissions that cannot be calculated with any precision.

## Regional Greenhouse Gas Impact Summary Tables for FFY 2024 – 2028 TIP

The following tables summarize the calculated quantitative and assumed qualitative impacts of the projects included in the regional FFY 2024 – 2028 TIP. The first and second table below summarizes the calculated quantitative impacts of the completed highway and transit projects since 2015 to track progress towards reductions.

<b>Berkshire Region Completed Highway Projects GHG</b>							
MassDOT Project ID ▼	MassDOT Project Description ▼	Total Programmed Funds ▼	GHG Analysis Type ▼	GHG CO <sub>2</sub> Impact (kg/yr) ▼	GHG Impact Description ▼	Additional Description ▼	Fiscal Year of Contract Award (2015 and forward)
602280	DALTON- RECONSTRUCTION OF HOUSATONIC STREET, FROM ROUTE 8 & 9 TO ROUTE 8	11,181,141	Quantified	-5,032	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure		2015
607900	PITTSFIELD- TRAFFIC SIGNAL AND INTERSECTION IMPROVEMENTS AT CENTER STREET AND WEST HOUSATONIC STREET (ROUTE 20)	2,372,226	Quantified	-34,012	Quantified Decrease in Emissions from Traffic Operational Improvement		2016
606462	LENOX- RECONSTRUCTION & MINOR WIDENING ON WALKER STREET	8,521,062	Quantified	-6,202	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure		2018
606891	LANESBOROUGH- PITTSFIELD ASHWILLTICOOK RAIL TRAIL EXTENSION TO CRANE AVENUE	2,704,236	Quantified	-19,278	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure		2020
607254	WILLIAMSTOWN- MOHAWK BICYCLE/PEDESTRIAN TRAIL CONSTRUCTION	5,585,900	Quantified	-4,369	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure		2020
609237	PITTSFIELD- ASHWILLTICOOK RAIL TRAIL EXTENSION FROM CRANE AVENUE TO MERRILL ROAD	1,417,902	Quantified	-1,088	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure		2023

<b>Berkshire Region Completed Transit Projects GHG</b>								
FTA Activity Line Item ▼	Transit Agency ▼	Project Description ▼	Total Cost ▼	GHG Analysis Type ▼	GHG CO <sub>2</sub> Impact (kg/yr) ▼	GHG Impact Description ▼	Additional Description ▼	Fiscal Year Programmed (2015 and forward)
RTD0002943	BRTA	Buy Replacement Van (5)	350,000	Quantified	-28,354	Quantified Decrease in Emissions from Bus Replacement		2015
RTD0007502	BRTA	Buy 2 replacement 35 Ft Buses	825,902	Quantified	-52,256	Quantified Decrease in Emissions from Bus Replacement		2019
RTD0008423	BRTA	Buy Replacement 30-ft Bus (2) Fixed (5339)	273,226	Quantified	-1,144	Quantified Decrease in Emissions from Bus Replacement		2021
RTD0008422	BRTA	Buy Replacement 35-ft Bus (1) Fixed (5339)	496,863	Quantified	-26,128	Quantified Decrease in Emissions from Bus Replacement		2021

## 2024 Berkshire Region Highway Project GHG Tracking

STIP: 2024 - 2028 (D)

MassDot Project ID	MassDOT Project Description	GHG Analysis Type	GHG Impact Description	GHG CO2 Impact (kg/yr)	Additional Information
Federal Fiscal Year 2024					
Berkshire Region					
604003	PITTSFIELD- RECONSTRUCTION OF EAST STREET (ROUTE 9)	Qualitative	Qualitative Decrease in Emissions	0	
607597	LEE- BRIDGE REPLACEMENT, L-05-004, MEADOW STREET OVER POWDER MILL BROOK	Qualitative	No assumed impact/negligible impact on emissions	0	
608857	CHESHIRE- BRIDGE REPLACEMENT, C-10-002, SAND MILL ROAD OVER DRY BROOK	Qualitative	No assumed impact/negligible impact on emissions	0	
609070	ALFORD- BRIDGE REPLACEMENT, A-06-004, WEST ROAD OVER SCRIBNER BROOK	Qualitative	No assumed impact/negligible impact on emissions	0	
609078	NEW MARLBOROUGH- BRIDGE REPLACEMENT, N-08-020, KEYES HILL ROAD OVER UMPACHENE RIVER	Qualitative	No assumed impact/negligible impact on emissions	0	
Berkshire Region 2024			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	0	
			Total GHG Difference (kg/year)	0	

## 2025 Berkshire Region Highway Project GHG Tracking

STIP: 2024 - 2028 (D)

MassDot Project ID	MassDOT Project Description	GHG Analysis Type	GHG Impact Description	GHG CO2 Impact (kg/yr)	Additional Information
Federal Fiscal Year 2025					
Berkshire Region					
607677	LEE- BRIDGE REPLACEMENT, L-05-013, MILL STREET OVER WASHINGTON MOUNTAIN BROOK	Qualitative	No assumed impact/negligible impact on emissions	0	
608859	TYRINGHAM- BRIDGE REPLACEMENT, T-10-003, JERUSALEM ROAD OVER HOP BROOK	Qualitative	No assumed impact/negligible impact on emissions	0	
609074	MONTEREY- BRIDGE REPLACEMENT, M-29-001, CURTIS ROAD OVER KONKAPOT RIVER	Qualitative	No assumed impact/negligible impact on emissions	0	
609076	GREAT BARRINGTON- BRIDGE REPLACEMENT, G-11-006, COTTAGE STREET OVER HOUSATONIC RIVER	Qualitative	No assumed impact/negligible impact on emissions	0	
609277	NORTH ADAMS- RECONSTRUCTION OF ASHLAND STREET	Qualitative	Qualitative Decrease in Emissions	0	
609428	LANESBOROUGH- BRIDGE REPLACEMENT, L-03-010, BRIDGE STREET OVER TOWN BROOK	Qualitative	No assumed impact/negligible impact on emissions	0	
609430	GREAT BARRINGTON- BRIDGE REPLACEMENT, G-11-014, STATE ROAD (ROUTES 7/23) OVER THE HOUSATONIC RIVER	Qualitative	No assumed impact/negligible impact on emissions	0	
610728	LEE- BECKET- RESURFACING AND RELATED WORK ON ROUTE 20	Qualitative	Qualitative Decrease in Emissions	0	
610777	ADAMS- BRIDGE REPLACEMENT, A-04-038, QUALITY STREET OVER HOOSIC RIVER	Qualitative	No assumed impact/negligible impact on emissions	0	
612162	PITTSFIELD- BRIDGE REPLACEMENT, P-10-039, WAHCONAH STREET OVER WEST BRANCH HOUSATONIC	Qualitative	No assumed impact/negligible impact on emissions	0	
612168	PITTSFIELD- BRIDGE REPLACEMENT, P-10-040, PONTOOSUC AVE OVER WEST BRANCH HOUSATONIC	Qualitative	No assumed impact/negligible impact on emissions	0	
612177	LANESBOROUGH- BRIDGE REPLACEMENT, L-03-015, US 7 WILLMSTOWN ROAD OVER WATER BRODIE MOUNTAIN BROOK	Qualitative	No assumed impact/negligible impact on emissions	0	
612183	GREAT BARRINGTON- BRIDGE REPLACEMENT, G-11-002, DIVISION STREET OVER HOUSATONIC RIVER	Qualitative	No assumed impact/negligible impact on emissions	0	
612691	WILLIAMSTOWN- ROUTE 7 ACCESS IMPROVEMENTS AT MOUNT GREYLOCK REGIONAL SCHOOL	Qualitative	Qualitative Decrease in Emissions	0	
Berkshire Region 2025			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	0	
			Total GHG Difference (kg/year)	0	

## 2026 Berkshire Region Highway Project GHG Tracking

STIP: 2024 - 2028 (D)

MassDot Project ID	MassDOT Project Description	GHG Analysis Type	GHG Impact Description	GHG CO2 Impact (kg/yr)	Additional Information
Federal Fiscal Year 2026					
Berkshire Region					
608547	EGREMONT- RECONSTRUCTION OF MOUNT WASHINGTON ROAD (PHASE 1)	Qualitative	Qualitative Decrease in Emissions	0	
609068	SHEFFIELD- BRIDGE REPLACEMENT, S-10-015, KELSEY ROAD OVER SCHENOB BROOK	Qualitative	No assumed impact/negligible impact on emissions	0	
609069	BECKETT- BRIDGE REPLACEMENT, B-03-045, QUARRY ROAD OVER CUSHMAN BROOK	Qualitative	No assumed impact/negligible impact on emissions	0	
612498	PITTSFIELD- BRIDGE REPLACEMENT, P-10-003 & P-10-032, SOUTH STREET OVER HOUSATONIC RIVER	Qualitative	No assumed impact/negligible impact on emissions	0	
Berkshire Region 2026				Total GHG Increase (kg/year)	0
				Total GHG Reduction (kg/year)	0
				Total GHG Difference (kg/year)	0

## 2027 Berkshire Region Highway Project GHG Tracking

STIP: 2024 - 2028 (D)

MassDot Project ID	MassDOT Project Description	GHG Analysis Type	GHG Impact Description	GHG CO2 Impact (kg/yr)	Additional Information
Federal Fiscal Year 2027					
Berkshire Region					
608547	EGREMONT- RECONSTRUCTION OF MOUNT WASHINGTON ROAD (PHASE I)	Qualitative	Qualitative Decrease in Emissions	0	
608768	PITTSFIELD- RESURFACING AND RELATED WORK ON MERRILL ROAD, INCLUDING CONSTRUCTION OF SHARED-USE PATH	Qualitative	Qualitative Decrease in Emissions	0	
609256	LANESBOROUGH- RESURFACING AND SIDEWALK CONSTRUCTION ON ROUTE 7	Qualitative	Qualitative Decrease in Emissions	0	
609394	ADAMS- CHESHIRE- PAVEMENT PRESERVATION AND RELATED WORK ON ROUTE 8	Qualitative	Qualitative Decrease in Emissions	0	
611942	SHEFFIELD- SUPERSTRUCTURE REPLACEMENT, S-10-024, COUNTY ROAD OVER IRONWORKS BROOK	Qualitative	No assumed impact/negligible impact on emissions	0	
611970	LEE- INTERSECTION IMPROVEMENTS AT PARK STREET AND MAIN STREET (ROUTE 20)	Qualitative	Qualitative Decrease in Emissions	0	
613053	LENOX- INTERSECTION IMPROVEMENTS ON ROUTE 20 AT PLUNKETT STREET AND BLANTYRE ROAD	Qualitative	Qualitative Decrease in Emissions	0	
Berkshire Region 2027				Total GHG Increase (kg/year)	0
				Total GHG Reduction (kg/year)	0
				Total GHG Difference (kg/year)	0

## 2028 Berkshire Region Highway Project GHG Tracking

STIP: 2024 - 2028 (D)

MassDot Project ID	MassDOT Project Description	GHG Analysis Type	GHG Impact Description	GHG CO2 Impact (kg/yr)	Additional Information
Federal Fiscal Year 2028					
Berkshire Region					
608737	DALTON- RECONSTRUCTION OF DALTON DIVISION ROAD	Qualitative	Qualitative Decrease in Emissions	0	
609292	PITTSFIELD- RECONSTRUCTION OF EAST STREET (ROUTE 9) FROM ELM STREET TO LYMAN ROAD	Qualitative	Qualitative Decrease in Emissions	0	
613136	SAVOY- BRIDGE SUPERSTRUCTURE REPLACEMENT, S-06-011, BLACK BROOK ROAD OVER BLACK BROOK	Qualitative	No assumed impact/negligible impact on emissions	0	
613137	WASHINGTON- BRIDGE SUPERSTRUCTURE REPLACEMENT, W-09-012, LOWER VALLEY ROAD OVER DEPOT BROOK	Qualitative	No assumed impact/negligible impact on emissions	0	
606890	ADAMS- NORTH ADAMS- ASHWILLTICOOK RAIL TRAIL EXTENSION TO ROUTE 8A (HODGES CROSS ROAD)	Qualitative	Qualitative Decrease in Emissions	0	
607570	LEE- BIKEWAY CONSTRUCTION, FROM STOCKBRIDGE T.L. TO WEST PARK STREET (PHASE 1)	Qualitative	Qualitative Decrease in Emissions	0	
Berkshire Region 2028				Total GHG Increase (kg/year)	0
				Total GHG Reduction (kg/year)	0
				Total GHG Difference (kg/year)	0

## 2024 Berkshire Region Transit Project GHG Tracking

STIP: 2024 - 2028 (D)

MassDot Project ID	MassDOT Project Description	GHG Analysis Type	GHG Impact Description	GHG CO2 Impact (kg/yr)	Additional Information
Federal Fiscal Year 2024					
Berkshire Regional Transportation Authority					
RTD0010568	BRTA - BUY REPLACEMENT <30 FT BUS (1) FIXED ROUTE- (5339 D)		No assumed impact/negligible impact on emissions	0	
RTD0010569	BRTA - PREVENTIVE MAINTENANCE		No assumed impact/negligible impact on emissions	0	
RTD0010570	BRTA - ACQUIRE - MISC SUPPORT EQUIPMENT- Purchase Electric Chargers for vehicles		No assumed impact/negligible impact on emissions	0	
RTD0011279	BRTA - BUY (3) REPLACEMENT 35-FT BUS (5339 D)		No assumed impact/negligible impact on emissions	0	
RTD0011283	BRTA - HVAC (5339 D)		No assumed impact/negligible impact on emissions	0	
T00054	BRTA-Preventative Maintenance- supporting FCA (5339 SU)		No assumed impact/negligible impact on emissions	0	
T00066	BRTA-Passenger Amenities		No assumed impact/negligible impact on emissions	0	
T00067	BRTA-Replacement of 2 support trucks		No assumed impact/negligible impact on emissions	0	
Berkshire Regional Transportation Authority			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	0	
			Total GHG Difference (kg/year)	0	
2024			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	0	
			Total GHG Difference (kg/year)	0	

## 2025 Berkshire Region Transit Project GHG Tracking

STIP: 2024 - 2028 (D)

MassDot Project ID	MassDOT Project Description	GHG Analysis Type	GHG Impact Description	GHG CO2 Impact (kg/yr)	Additional Information
Federal Fiscal Year 2025					
Berkshire Regional Transportation Authority					
RTD0010571	BRTA - PREVENTIVE MAINTENANCE		No assumed impact/negligible impact on emissions	0	
RTD0011281	BRTA - BUY replacement- Support Vehicles-electric		No assumed impact/negligible impact on emissions	0	
RTD0011289	BRTA - BUY REPLACEMENT <30 FT BUS (3)		No assumed impact/negligible impact on emissions	0	
T00064	BRTA-ITS Software Replacement		No assumed impact/negligible impact on emissions	0	
T00065	BRTA-Passenger Amenities		No assumed impact/negligible impact on emissions	0	
Berkshire Regional Transportation Authority			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	0	
			Total GHG Difference (kg/year)	0	
2025			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	0	
			Total GHG Difference (kg/year)	0	

## 2026 Berkshire Region Transit Project GHG Tracking

STIP: 2024 - 2028 (D)					
MassDot Project ID	MassDOT Project Description	GHG Analysis Type	GHG Impact Description	GHG CO2 Impact (kg/yr)	Additional Information
Federal Fiscal Year 2026					
Berkshire Regional Transportation Authority					
RTD0010573	BRTA - PREVENTIVE MAINTENANCE		No assumed impact/negligible impact on emissions	0	
T00062	BRTA-Replacement (3) cutaways		No assumed impact/negligible impact on emissions	0	
T00063	BRTA-Passenger Amenities		No assumed impact/negligible impact on emissions	0	
Berkshire Regional Transportation Authority			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	0	
			Total GHG Difference (kg/year)	0	
2026			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	0	
			Total GHG Difference (kg/year)	0	

## 2027 Berkshire Region Transit Project GHG Tracking

STIP: 2024 - 2028 (D)					
MassDot Project ID	MassDOT Project Description	GHG Analysis Type	GHG Impact Description	GHG CO2 Impact (kg/yr)	Additional Information
Federal Fiscal Year 2027					
Berkshire Regional Transportation Authority					
RTD0011285	BRTA - PREVENTIVE MAINTENANCE		No assumed impact/negligible impact on emissions	0	
RTD0011286	BRTA - PREVENTIVE MAINTENANCE-ITC concrete		No assumed impact/negligible impact on emissions	0	
RTD0011287	BRTA - BUY REPLACEMENT <30 FT BUS (2)		No assumed impact/negligible impact on emissions	0	
T00060	BRTA-Preventative Maintenance- support FCA (5339 SU)		No assumed impact/negligible impact on emissions	0	
T00061	BRTA-Passenger Amenities		No assumed impact/negligible impact on emissions	0	
Berkshire Regional Transportation Authority			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	0	
			Total GHG Difference (kg/year)	0	
2027			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	0	
			Total GHG Difference (kg/year)	0	

## 2028 Berkshire Region Transit Project GHG Tracking

STIP: 2024 - 2028 (D)					
MassDot Project ID	MassDOT Project Description	GHG Analysis Type	GHG Impact Description	GHG CO2 Impact (kg/yr)	Additional Information
Federal Fiscal Year 2028					
Berkshire Regional Transportation Authority					
T00056	BRTA-Preventative Maintenance		No assumed impact/negligible impact on emissions	0	
T00057	BRTA-Passenger Amenities- Bus shelters, accessories, bus stop signs, etc.		No assumed impact/negligible impact on emissions	0	
T00059	BRTA-Buy Replacement Cutaway Buses (3)		No assumed impact/negligible impact on emissions	0	
Berkshire Regional Transportation Authority			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	0	
			Total GHG Difference (kg/year)	0	
2028			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	0	
			Total GHG Difference (kg/year)	0	
2024 - 2028			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	0	
			Total GHG Difference (kg/year)	0	

