



## Cambria County 2050

## LONG-RANGE TRANSPORTATION PLAN

















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#### **Prepared for:**

Cambria County Metropolitan Planning Organization **Cambria County Planning Commission** 401 Candlelight Drive, Suite 215 Ebensburg, PA 15931 (814) 472-2106 https://cambriaplanning.org/

#### By:

Michael Baker International 4431 N. Front Street Harrisburg, PA 17110 (717) 221-2000

The preparation of this publication was funded in part through the United States Department of Transportation's Federal Highway Administration and the Pennsylvania Department of Transportation.



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### **Transportation Timeline**

1800-1849	1804 – Cambria County established 1833 – Staple Bend Tunnel opens to raiil traffic 1836 – Pennsylvania Main Line Canal built	1900-1949	1904 – Gallitzin Tunnel completed 1915 – Johnstown train station constructed 1940 – County population peaks at 213,459 1948 – Johnstown Municipal Airport opens	2000-2049	2009 – Total daily vehicle-miles traveled (DVMT) drops below 3 million 2023 – 10,000 enplanements at Johnstown- Cambria County Airport 2026 – Second daily train on Amtrak's Pennsylvanian service anticipated
1850-1899	1854 – New Portage Tunnel and Allegheny Tunnel completed 1891 – Johnstown Inclined Plane opens	1950-1999	<ul> <li>1961 - Ebensburg Bypass opens</li> <li>1965 - Johnstown Expressway/PA 56 opens</li> <li>1970 - US 219 becomes an expressway-grade highway from Somerset to Ebensburg</li> <li>1974 - Richland Mall opens</li> <li>1976 - Cambria County Transit Authority (CCTA) begins operations</li> <li>1984 - Modernized US 22 opens to traffic from Admiral Peary Highway to PA 764</li> <li>1989 - Modernized US 219 opens to traffic from Ebensburg to Carrolltown interchange</li> <li>1999 - Norfolk Southern (and CSX) acquire Conrail</li> <li>1999 - CCTA becomes CamTran</li> </ul>		Major milestones in Cambria County's transportation history

# Cambria County Transportation by the Numbers



#### LOCAL GOVERNMENTS

1 + 30 + 32 = 63
City Townships Boroughs Municipalities



#### **DEMOGRAPHICS**

134,048

**Total Population (2021)** 

30,111 (22.5%)

**Senior Population** 

54,900

**Labor Force** 

11%

Households with No Access to a Vehicle



#### **PLANNING TOOLS**

22

Municipalities with a Comprehensive Plan

21

**Municipalities with a Zoning Ordinance** 

22

**Municipalities with a Planning Commission** 



#### **ROADS AND BRIDGES**

87

Local Bridges (>20 feet long)

333

State Bridges (>8 feet long)

1,742

**Linear Miles of Roadway** 

15 (17.2%)

**Poor-Condition Local Bridges by Count** 

11 (3.3%)

**Poor-Condition State Bridges by Count** 

2,766,599

Daily Vehicle-Miles Traveled (2022)



#### **ROADWAY SAFETY**

1,065

**Average Annual Roadway Crashes (2018-2022)** 

9

**Average Annual Roadway Fatalities (2018-2022)** 



#### **MULTIMODAL**

**Transit System** 

2

**Public-Use Airports** 

150

Miles of Railroad

15,009

Amtrak Ridership at Johnstown (2022)

185

**Miles of Trails** 



**EMERGING TECHNOLOGY** 

122

**Registered Electric Vehicles (2022)** 



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### **Geographical Position**

#### **Overview**

- Cambria County is located within Pennsylvania's Laurel Highlands region. It is 688 square miles in size and also within the national Appalachian Region.
- The county is located on the eastern border of the Appalachian Plateau and the Allegheny Front, an abrupt 1,500-foot-high escarpment (cliff) that has historically been an obstacle to east-west movement through the county.
- Historically, the rugged topography of the Appalachian Plateau has not been conducive to road-building. Roads and other development within Cambria County have been concentrated around natural resources such as coal. Other areas of the county are isolated and typically sparsely populated.
- The county encompasses 63 total municipalities: 30 townships, 32 boroughs, and one city.

- Johnstown, the county's principal city, is located 67 miles east of Pittsburgh in Allegheny County, Cambria's major economic trading center. The Cambria County seat of Ebensburg is located near the county's geographic center.
- The Eastern Continental Divide splits the county. Its main drainages include the Conemaugh River and the West Branch of the Susquehanna River, which begins just outside of Carrolltown Borough. The county has two major watershed basins: its northern half drains into the Susquehanna River, while the southern half drains into the Ohio River.

#### **Planning Implications**

- The county's position within the Appalachian Region makes it eligible to receive federal funding from the **Appalachian Regional Commission** (ARC).
- Transportation plays a vital role in attracting business and investment. The

- role of rail freight and aviation service becomes heightened in a county that features rugged topography and lacks Interstate highways.
- The county's position at the headwaters of major rivers means that its bridges are generally shorter than in other areas. The average state-owned bridge in Cambria County is 86 feet long, as opposed to the state average of 95 feet.
- Of the 67 counties in Pennsylvania, Cambria County ranks 26th-highest in total population. The average population per municipality in Cambria is 2,119, whereas statewide it is 5,063. Lower population may impact the feasibility of certain transportation modes, making it challenging to justify the investment in more advanced transportation systems.

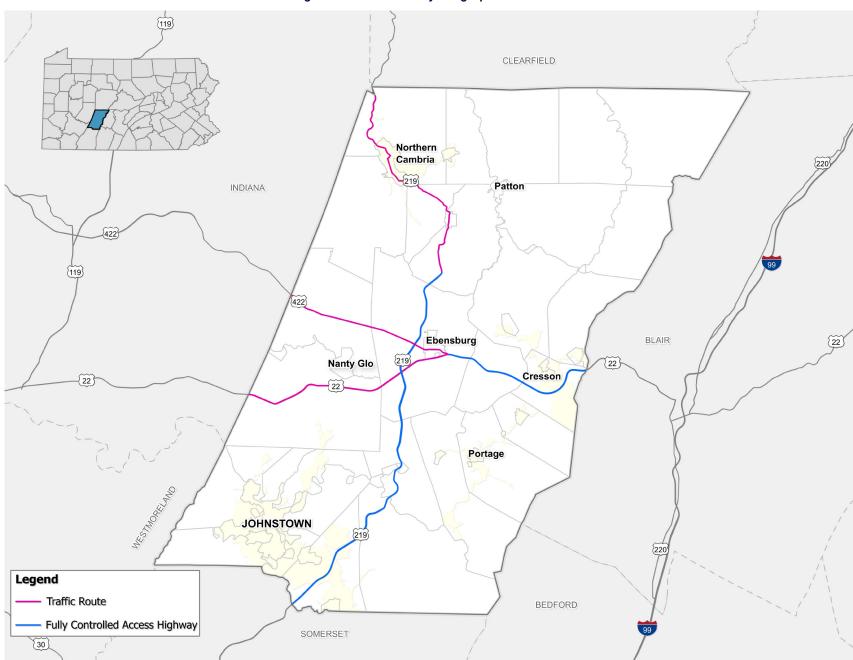


Figure 1: Cambria County Geographical Position



### LRTP Purpose

The long-range transportation plan (LRTP) establishes goals and potential projects to improve the transportation system in Cambria County, consistent with the county's overall vision. The LRTP considers a 25-year planning horizon and provides a framework for making transportation decisions that will support the county's desired future.

Specifically, the LRTP inventories and assesses the county's current land use, transportation patterns, and operations of all transportation modes, and identifies needed improvements to the multimodal transportation system—highway/bridge, rail, air, transit, bicycle, and pedestrian facilities—to facilitate a desired long-term outcome.

The LRTP is guided by the Cambria County Metropolitan Planning Organization (MPO) and serves several key functions, including:

Guiding the MPO's decisions on project prioritization for the Transportation Improvement Program (TIP);

- Advising the county's municipalities on local and regional planning decisions that impact transportation;
- Fulfilling federal and state transportation laws and regulations; and
- Reflecting the needs and priorities of Cambria County's residents, visitors, and businesses.

#### What Is a Metropolitan Planning **Organization?**

An MPO is a transportation policy-making body comprising representatives of local government and transportation agencies that own, operate, and fund transportation infrastructure. Federal law requires the formation of an MPO in any urbanized area with a population greater than 50,000. MPOs ensure that decisions and spending on transportation projects and programs are based on a "continuing, comprehensive, and cooperative" (3C) planning process that reflects the needs and priorities of

the county. MPOs administer federal and state funding for transportation projects and programs, consistent with the county's approved LRTP.

#### Why Develop an LRTP for **Cambria County?**

Developing and regularly updating an LRTP is a prerequisite to receiving federal transportation funding. Further, it helps ensure that transportation investment decisions are made strategically and considered in light of their long-term effect on the county.

Transportation decisions profoundly shape the county's direction and growth. An LRTP helps determine what improvements are needed to guide the county in a cohesive, agreed-upon direction for the future. Without this solid direction, growth would occur in an unplanned and incremental manner, likely to the detriment of what makes Cambria County a great place to live, work, or visit.



### Demographics

#### **Overview**

- In 2020, Cambria County had a population of 131,611. Over the preceding decade, the county experienced a population decline of more than 10,000 (7.1 percent). Data from the American Community Survey (ACS) in 2021 put the county's population at 134,048 (Figure 2). For the decade ending 2020, the county ranked eighth statewide in the rate of population decline, and second by absolute number, behind neighboring Westmoreland County. The county comprises the Johnstown Metropolitan Statistical Area (MSA).
- The City of Johnstown is the principal city of the Johnstown-Somerset Combined Statistical Area (CSA), which includes both Cambria and Somerset counties. The 2022 population of the CSA was 204,151. As the region's core urban center, Johnstown had a 2020 population of 18,411, while 2022 ACS data estimate the city's population to be 18,091.

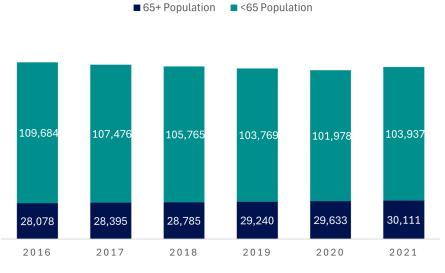
- The average population change from 2010 to 2020 for Cambria County municipalities was negative 6 percent. While many communities within the county have experienced population declines, several boroughs recorded gains. These include Carrolltown (23.2 percent increase), Vinco (13.9 percent), and Cassandra (10.2 percent).
- Population projections from the economic and demographic forecasting firm Woods and Poole estimate that Cambria County's population will decline to 103,275 by the LRTP's forecast year of 2050 (Figure 3).
- The county's total population aged 65 and older is expected to remain steady between 2020 and 2050, at approximately 30,500 persons. Coupled with the decline in the overall population, this age demographic's share of the total population is expected to increase from a 2020 share of 24 percent to 29 percent by 2050.

Median age in Cambria County was 45.5 in 2021, substantially higher than the state median age of 40.9 years. By 2050, the median age within the county is expected to reach 47.8 years.

#### **Planning Implications**

- The decline of the county's total population has ramifications that include reduced demand for transportation. Maintaining existing infrastructure will be a greater focus than expanding capacity. With fewer riders, ensuring financial sustainability for public transportation systems will be an ongoing challenge.
- The MPO will need to adapt its transportation strategies to be responsive to changing demographic trends in serving the remaining population effectively. The LRTP considers the potential shifts in transportation needs and the broader socio-economic impacts of a shrinking population.

Figure 2: Cambria County ACS 5-Year Population Estimates, 2016-2021



Source: U.S. Census Bureau

Figure 3: Historical and Forecasted Population

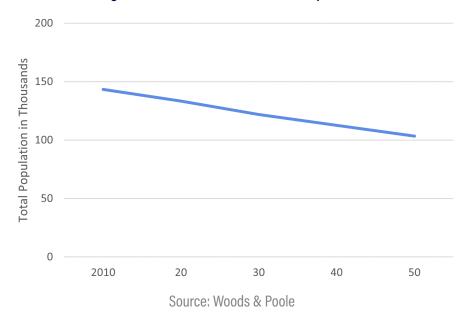
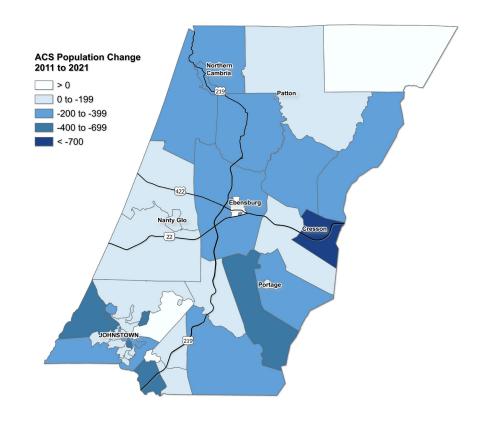
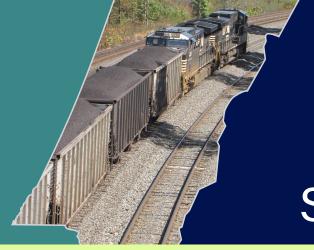


Figure 4: Cambria County ACS 5-Year Estimate Population Change 2011 to 2021



Since peaking at 213,459 in 1940, the county's population has steadily declined. This trend is expected to continue to the plan horizon year of 2050.

Note that Cresson Township experienced a significant population decline between 2011 and 2021, mainly due to the closure of the Cresson State Correctional Institution in 2013.



### Socioeconomics

#### **Overview**

- Between 2018 and 2022, Cambria County's total job count declined by 3,725—a 6.4 percent decrease.
- As of November 2023, the county had a labor force of 54,900. Woods and Poole forecasts indicate the county's total employment may reach 67,853 by 2050.
- Cambria County's unemployment rate as of November 2023 was 4.4 percent, which is approximately one percentage point higher (worse) than that of the state as a whole.
- The county's largest industry is Health Care and Social Assistance, which constitutes 23.3 percent of employment. It is followed by Retail Trade (11.8 percent), Manufacturing (8.7 percent), and Educational Services (8.6 percent). These, along with the other NAICS industry sectors, are shown in Figure 9.

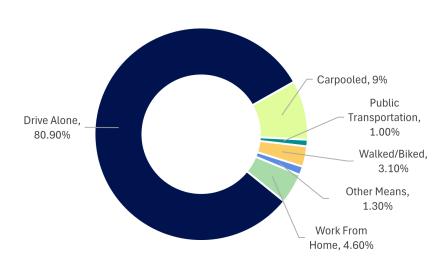
- The county's top 10 employers (according to the PA Work Stats) are:
  - DLP Conemaugh Memorial Medical Center, LLC
  - 2. State Government
  - 3. Federal Government
  - 4. Wal-Mart Associates, Inc.
  - 5. Cambria County
  - 6. Saint Francis University
  - 7. DLP Conemaugh Physician Practices
  - 8. Sheetz, Inc.
  - 9. Lockheed Martin AeroParts, Inc.
  - 10. McAneny Brothers, Inc.
- Location Quotient (LQ) is a metric that compares an industry's share of local employment to its share at the state level. An LQ greater than one indicates that an industry is a driver of local economic growth. In Cambria County, industries such as Utilities, Public Administration, and Retail Trade are key economic drivers based on this metric (Figure 7).

- More than half of the county's resident workers are also employed within the county (Figure 11). Nearly half of the county's resident workers commute less than 10 miles to work while more than one in five commutes more than 50 miles.
- Cambria County imports 16 percent of its workforce from neighboring Somerset County.
- Cambria County exports 10 percent of its workforce to neighboring Blair County.
- Approximately 20 percent of all jobs in the county are located in the City of Johnstown.

#### **Planning Implications**

The county has a diverse employment base. With Health Care as the county's largest employment sector, the industry may be defined by more regular schedules, while retail employees might have more varied shifts, influencing transportation

Figure 5: Journey to Work, 2020

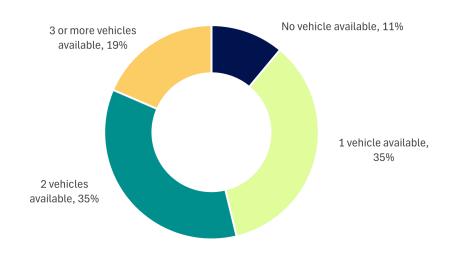


Source: U.S. Census Bureau

More than four in five of the county's workers drive alone to work, underscoring the county's reliance on the private automobile.

patterns. Journey-to-work trips represent an ever-decreasing share of all trip-making, yet it is important for the MPO to monitor changes in these travel patterns in support of the county's economy.

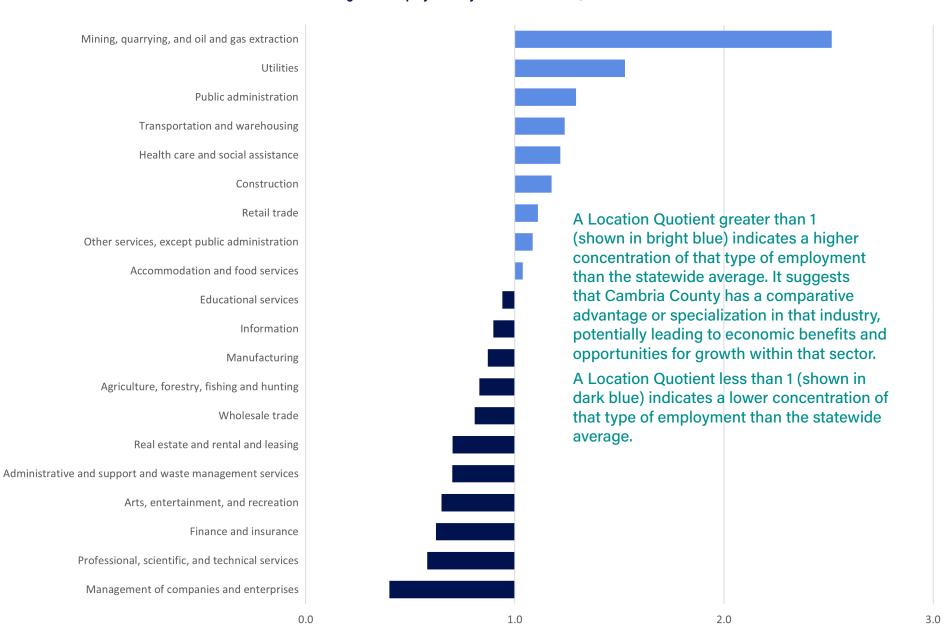
Figure 6: Household Vehicle Access, Cambria County, 2020



Source: U.S. Census Bureau

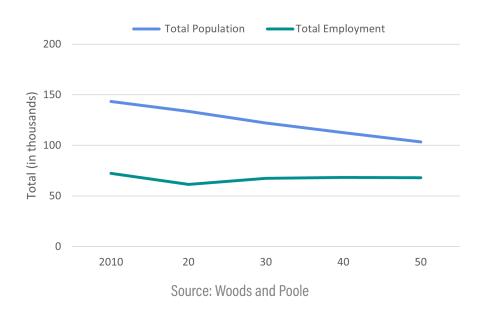
More than 10 percent of the county's households have no access to a vehicle, implying a higher dependency on public transportation, walking, or alternative modes of transportation to access essential services and job opportunities.

Figure 7: Employment by Location Quotient, 2020

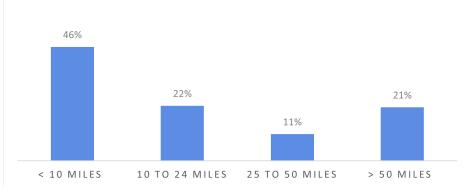


Source: ACS 5-Year Averages

**Figure 8: Employment Projections** 



**Figure 10: Commuting Distance** 



Source: U.S. Census Bureau

Figure 9: Percent Employment by Industry, 2021

NAICS Industry Sector	Count	Share
Health Care and Social Assistance	12,170	23.2%
Retail Trade	6,205	11.8%
Manufacturing	4,541	8.7%
<b>Educational Services</b>	4,496	8.6%
Accommodation and Food Services	3,489	6.6%
Public Administration	2,760	5.3%
Transportation and Warehousing	2,536	4.8%
Construction	2,477	4.7%
Administration & Support, Waste Management and Remediation	2,352	4.5%
Professional, Scientific, and Technical Services	2,220	4.2%
Other Services (excluding Public Administration)	2,092	4.0%
Wholesale Trade	1,885	3.6%
Finance and Insurance	1,830	3.5%
Information	823	1.6%
Management of Companies and Enterprises	644	1.2%
Utilities	530	1.0%
Real Estate and Rental and Leasing	469	0.9%
Arts, Entertainment, and Recreation	410	0.8%
Mining, Quarrying, and Oil and Gas Extraction	402	0.8%
Agriculture, Forestry, Fishing and Hunting	165	0.3%

Source: U.S. Census Bureau

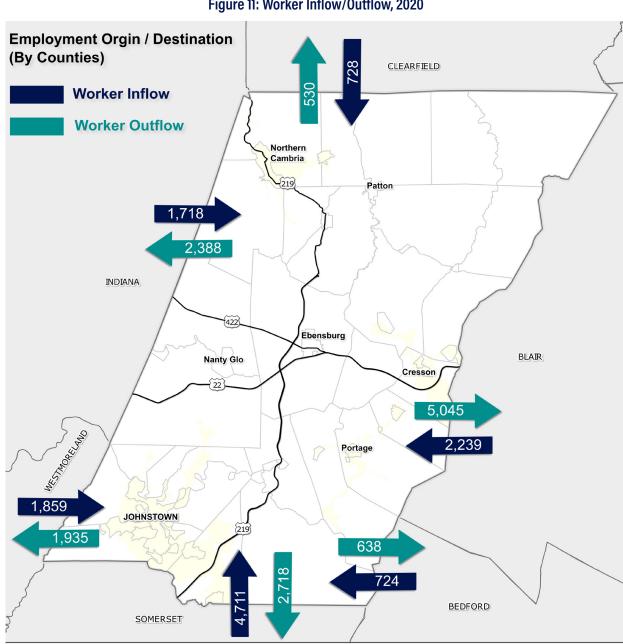


Figure 11: Worker Inflow/Outflow, 2020

Source: U.S. Census Bureau



### Roadway Network

#### **Overview**

- Cambria County's roadway network comprises nearly 1,742 linear miles of roadway. Of this total, only 472.6 miles are on the Federal-Aid System.
- After a brief decline during 2020 related to COVID-19 closures, the demand for travel on the county's roadways has returned and even surpassed pre-pandemic levels. The county's road network carries an average of 2.7 million vehicle-miles, daily (Figure 14). An overwhelming majority of this travel (83 percent) occurs on the state system.
- Highway System (NHS) in 1995 to designate highways that are a vital priority for the nation's economy, defense, and mobility. Within Cambria County, this network originally included major roadways such as US 22, US 219, US 422, and PA 56. In later years, additional roadways were added, such as PA 403 and PA 271 through the Johnstown Urbanized Area (Figure 15).

- Cambria County is one of 19 counties in Pennsylvania that is not directly served by the national Interstate Highway System (Figure 16). It is by far the most populous county in the state with this distinction. The MPO is exploring Interstate designation for the US 219 corridor.
- Travel in the county (53 percent) occurs heavily on its principal arterials such as US 22, US 219, and US 422.
- The MPO has worked with PennDOT and FHWA to designate and certify corridors as Critical Urban Freight Corridors (CUFCs) and Critical Rural Freight Corridors (CRFCs). These include US 219 from the Somerset County line north to its interchange with Galleria Drive, and PA 56 from its interchange with US 219 west to Coopersdale. These roadways are eligible for federal funding under the National Highway Freight Program (NHFP).
- There are two Cambria County roadways designated as Intermodal

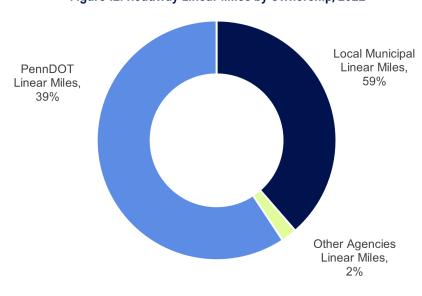
- Connectors: PA 756 from its interchange with US 219 to the eastern limit of the Johnstown Urbanized Area in Richland Township, and Macridge Avenue from PA 756 to Eisenhower Boulevard.
- There are 25.8 miles of locally owned, federal-aid-eligible roadways in the county (Figure 16). Examples include Ash Street and Southmont Boulevard.
- There are no County-owned roadways or Byways in Cambria County.

#### **Planning Implications**

- Cambria County has a large roadway network that serves as the backbone of its transportation system. Network planning is vital to ensure that the county's roadways are eligible for state and federal funding programs that are targeted toward roadways with designations.
- Despite ongoing population declines, there remains a strong demand for transportation with Cambria County, as evidenced by DVMT data from PennDOT (Figure 14).

PennDOT owns 39 percent of all linear miles of roadway within the county. Statewide, the rate of PennDOT ownership is 33 percent.

Figure 12: Roadway Linear Miles by Ownership, 2022



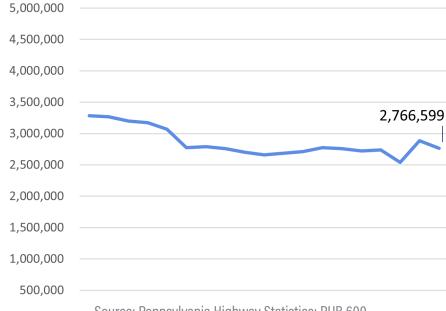
Source: Pennsylvania Highway Statistics

Figure 13: Linear Miles by Ownership, 2022

Entity	Miles of Roadway Owned			
PennDOT	672.45			
Other Agencies*	36.65			
Local Municipal	1,032.81			

\*Includes state and federal miles owned Source: Pennsylvania Highway Statistics The demand for travel on the county's roadways has continued to decline over the longer term. This is a function of a declining population, and a growing elderly population that tends to drive less. Since 2004, annual DVMT has dropped by more than 15 percent.

Figure 14: Daily Vehicle-Miles Traveled (DVMT), 2004-2022



Source: Pennsylvania Highway Statistics; PUB 600

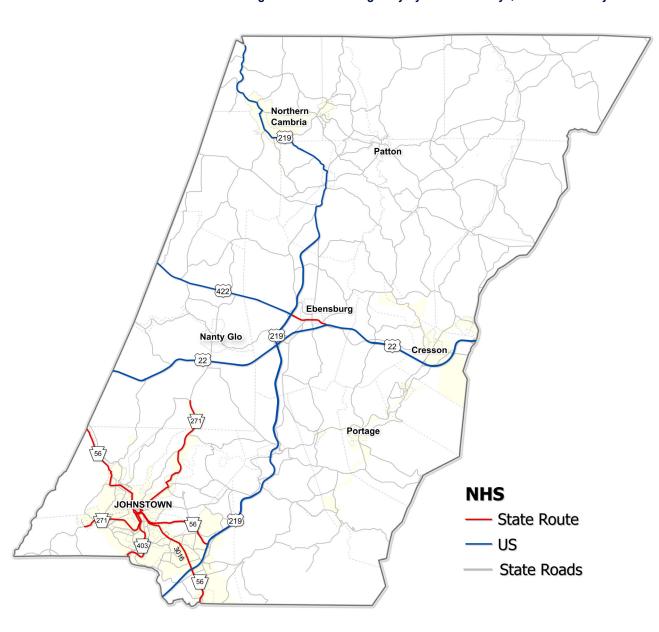


Figure 15: National Highway System Roadways, Cambria County

1. Schoolhouse Rd

2. Eisenhower Blvd

3. Theatre Dr 4. Ness Ave

5. Walters Ave

6. Leventry Rd

8. Hickory St 9. Messenger St 10. Ash St

11. Homer St

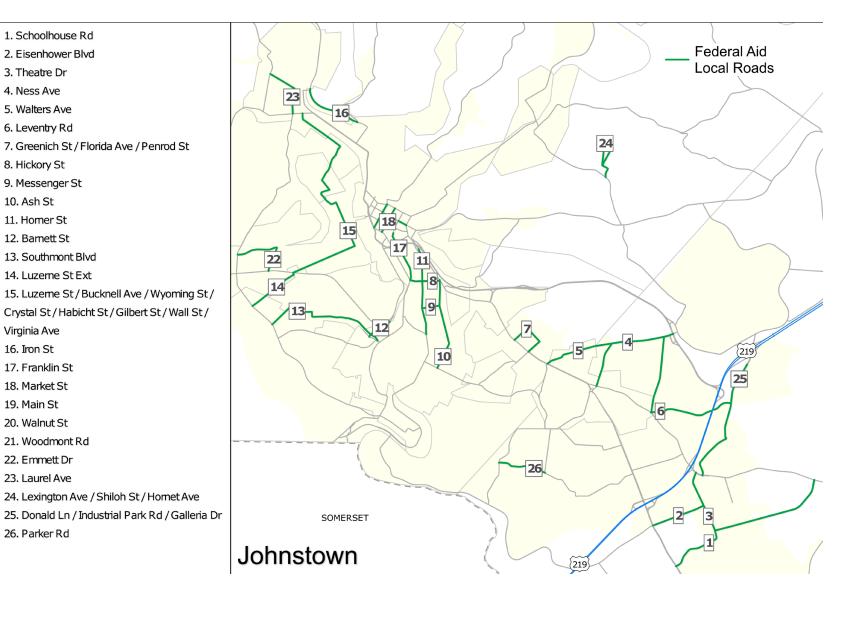
12. Bamett St 13. Southmont Blvd

Virginia Ave 16. Iron St

17. Franklin St 18. Market St 19. Main St 20. Walnut St 21. Woodmont Rd 22. Emmett Dr

14. Luzeme St Ext

Figure 16: Local Roads on the Federal-Aid System, Johnstown Area



26. Parker Rd

23. Laurel Ave



## Roadway – Functional Classification

#### **Overview**

- The functional classification of roadways defines the role that each element of the roadway network fulfills in serving various travel needs, from high-speed highways that provide mobility over longer distances, to local residential streets that provide door-to-door access.
- The MPO, together with PennDOT, has been functionally classifying roadways since the 1960s. The county's functional classification scheme was last updated in October 2022.
- Functionally classifying roadways helps the MPO to establish appropriate speed limits, signage, and safety measures.
   It also aids the MPO in determining where to invest in roadway improvements based on the roadway's intended function.

- Figure 17 provides information on the functional classification of the county's roadways.
  - » Other Freeway Roadways within this classification function very similarly to Interstates. They may have directional travel lanes separated by a physical barrier, and their access and egress points are limited to on- and off-ramp locations or a very limited number of at-grade intersections. Examples of "Other Freeway" roadways are US 22 and US 219.
  - » Other Principal Arterial These roadways serve major centers of metropolitan areas and provide a high degree of mobility. Unlike their access-controlled counterparts, abutting land uses can be served directly with driveways. Examples include US 422, Scalp Avenue/ SR 3016, and SR 3044/Washington Street in Johnstown between PA 56 and PA 271.

- Minor Arterials These roadways are designed to carry intermediate levels of traffic. They carry more than local streets or collectors but do not have the capacity of major arterials. Examples include PA 36 and PA 53.
- » Major Collectors This network is both the largest in size eligible for federal aid and the lowest classification eligible for federal funding. An example of a major collector is PA 271 between US 219 and US 22.
- » Minor Collectors Many of the county's four-digit state routes (SRs) are a part of this classification. They generally offer greater levels of access than major collectors, although differences between the two are often subtle.
- » Local Roadways functionally classified as "Local" (not to be confused with locally owned roadways) are the lowest-order state-owned roadways within the functional classification

hierarchy. Roadways with this classification are eligible to be "turned back" to the host municipality through PennDOT's Turnback Program. After a road is turned back to the municipality, PennDOT provides annual financial support toward the costs associated with maintaining the roadway, at a rate of \$4,000 per mile. PennDOT releases annual maintenance payments on March 1, beginning two years after the year of transfer.

#### **Planning Implications**

- Functional classification determines a roadway's eligibility for various federal funding sources. The significance of maintaining functional class is further underscored by increased federal emphasis on National Highway Performance Program (NHPP) roadways. Cambria's attention to functional classification is of utmost importance to secure federal funding and support the county's long-term transportation goals.
- Functional classification carries with it expectations about roadway design, including its speed, capacity, and relationship to existing and future land use development.
- The U.S. Census Bureau released maps of urban area boundaries after the 2020 census. The MPO will review these census boundaries and either accept them as-is or adjust them for transportation planning purposes. Nearby roads and rural areas will be considered during the evaluation, which can impact transportation planning and functional classification needs.

**Figure 17: Functional Classification** 

	Functional Class Linear Miles	
	Interstate	0
	Other Freeway/Expressway	40.4
Federal-Aid	Other Principal Arterial	71.5
	Minor Arterial	107.4
	Major Collector	253.3
Non-Federal-Aid	Minor Collector	130.0
Non-reueral-Alu	Local	1,139.3
	Total	1,741.9

Source: Pennsylvania Highway Statistics

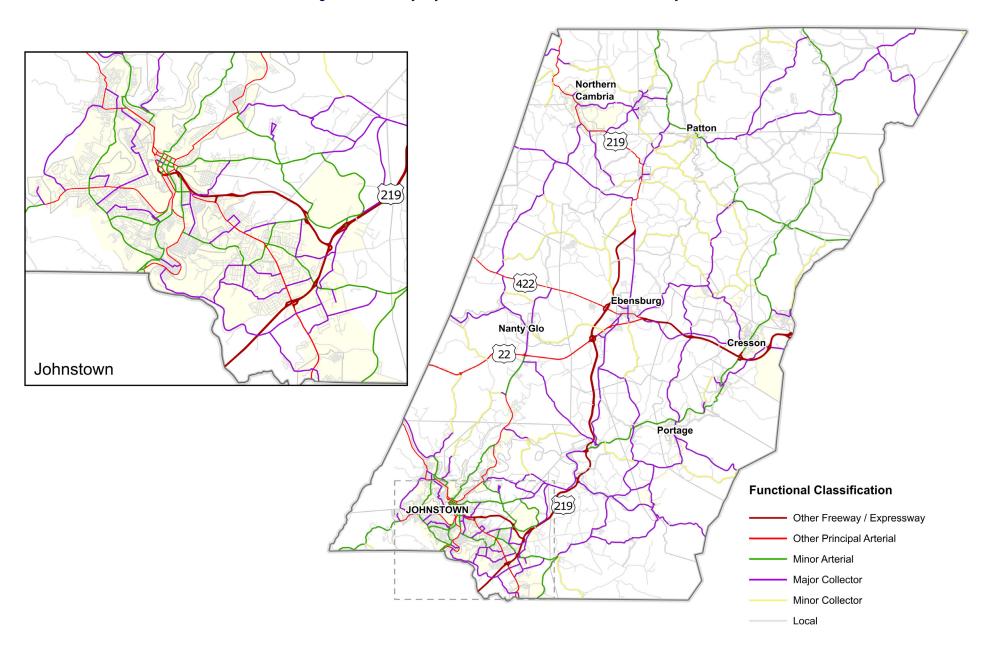


Figure 18: Roadways by Functional Classification, Cambria County



### Roadway Conditions

#### **Overview**

- PennDOT has organized the state's roadways into four Business Plan Networks (BPN) for planning purposes:
  - 1) Interstates
  - 2) NHS, Non-Interstate
  - 3) Non-NHS, > 2,000 average daily traffic (ADT)
  - 4) Non-NHS, < 2,000 ADT
- The Overall Pavement Index (OPI) is a measure of a roadway's pavement condition, while the International Roughness Index (IRI) is a measure of the roughness of the pavement surface. These measurements indicate conditions of the roadway throughout the network.

- Approximately 64 percent of Cambria's pavements have "Good" or "Excellent" IRI ratings, about 8 percentage points over (better than) the statewide total of 56 percent.
- The majority of poorly rated IRI roadways are on the Non-NHS, < 2,000 ADT network, as shown in Figure 19.
- The county has 70.4 percent of pavements rated "Good" or "Excellent" by OPI, exceeding the 62 percent statewide total.
- OPI and IRI pavements in "Excellent" and "Good" condition have decreased overall from 2021 to 2022.
- "Poor" OPI for the county's roadways is 3.7 percent, about one-third of (better than) the statewide rate of 12.0 percent.

#### **Planning Implications**

- The MPO will need to continue working with PennDOT and local municipalities to effectively manage and prioritize the maintenance requirements of the roads in need of resurfacing, reconstruction, or preservation.
- Cambria County does not have any Interstates, but it has proportionally more roads on the NHS than does the state as a whole. Cambria has 23 percent non-Interstate NHS segment miles compared to 16 percent statewide.
- Compared to Pennsylvania as a whole, pavement conditions in Cambria County on average are good.

45.12%

14.41%

5.19%

■ Good

■ Fair

Poor

Figure 19: IRI by Business Plan Network, 2022



Figure 21: Cambria - Percentage Total PennDOT Segment-Miles by BPN, 2021

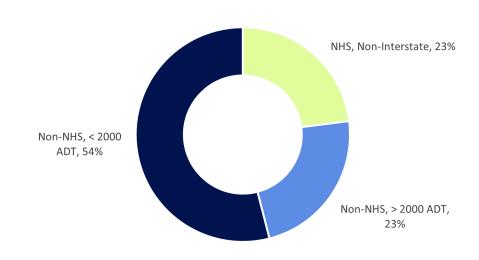


Figure 20: OPI by Business Plan Network, 2022

46.96%

14.15%

7.71%

30.45%

28.06%

21.80%

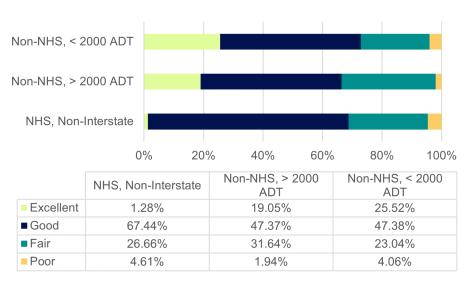
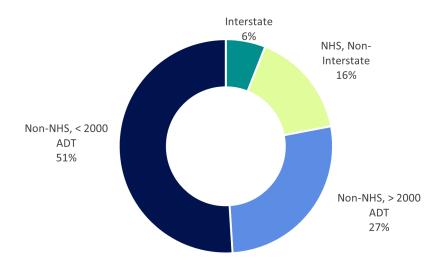


Figure 22: Statewide - Percentage Total PennDOT Segment-Miles by BPN, 2021



Source: Performance Measures Annual Report



### Roadway Safety

#### **Overview**

- Safety continues to be the MPO's top priority for its transportation system. The MPO works closely with PennDOT in improving roadway safety through upgrading and maintaining roadways, bridges, and traffic signals to meet safety standards. The MPO supports PennDOT's efforts toward improving safety through plans such as the Strategic Highway Safety Plan, and programs such as red-light cameras, distracted-driving initiatives, and seatbelt promotion.
- For the five-year period ending in 2022, the county averaged 1,065 roadway crashes per year (Figure 23). This compares favorably to the five-year period ending 2012 when 1,352 crashes were recorded.

- For the five-year period ending in 2022, the county averaged four bicycle crashes and 18 pedestrian crashes per year (Figures 27 and 28).
- In 2022, distracted driving was a factor in roughly 12 percent of all crashes (compared to 11 percent, statewide). Crashes involving a driver aged 65 or older comprised 18.2 percent of crashes, which is slightly higher (worse) than the state rate.
- Roadway fatalities have steadily declined since the county recorded a high of 24 in 2006. For the five-year period ending in 2022, the county averaged nine fatalities per year (Figure 24).

#### **Planning Implications**

 Recognizing that even one roadway fatality is too many, the MPO will continue to collaborate with PennDOT in

- advancing roadway safety. The positive trends Cambria County is experiencing demonstrate the effectiveness of improved safety measures, technology, and driver awareness.
- To help further reduce the number of crashes and roadway fatalities, the MPO will need to continue to improve road infrastructure, including better signage, lighting, and roadway design. The public must also embrace roadway safety and take individual responsibility for safe behaviors, while the MPO will continue to engage the public in road safety initiatives.
- The MPO is required to invest a share of its Highway Safety Improvement Program (HSIP) funding toward improving roadway safety.

Figure 23: Total Roadway Crashes by 5-Year Average

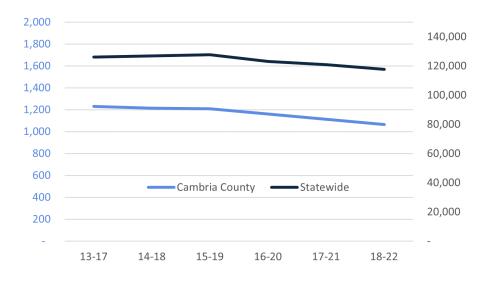


Figure 25: Distracted Driver Crashes by 5-Year Average

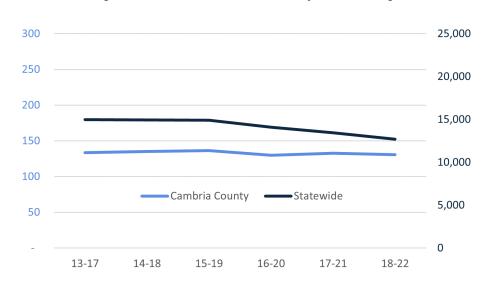


Figure 24: Roadway Fatalities by 5-Year Average

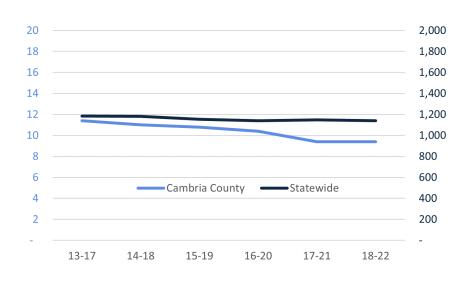
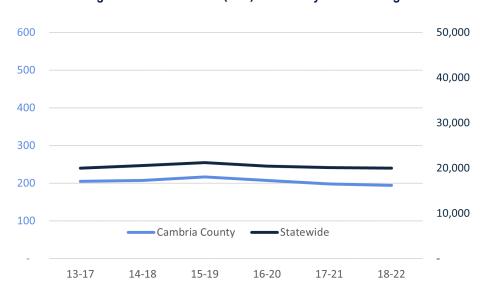


Figure 26: Senior Driver (65+) Crashes by 5-Year Average

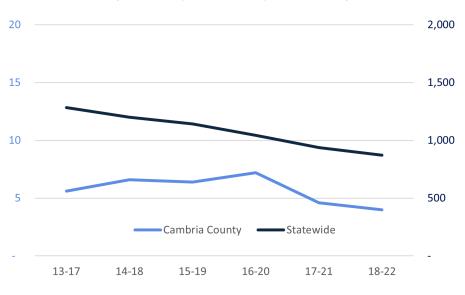


Source: Pennsylvania Crash Information Tool (PCIT)

Figure 27: Pedestrian Crashes by 5-Year Average

25,000 300 250 20,000 200 15,000 150 10,000 100 ——Cambria County ——Statewide 5,000 0 13-17 14-18 15-19 16-20 17-21 18-22

Figure 28: Bicycle Crashes by 5-Year Average



Source: Pennsylvania Crash Information Tool (PCIT)



### **Bridge Conditions**

#### **Overview**

- Proper maintenance of the county's bridge inventory is aimed at sustaining a state of good repair, extending each structure's useful life, and supporting mobility and connectivity.
- There are 331 state-owned bridges in the county greater than eight feet in length, with a total deck area of 1.4 million square feet. Of this total, three bridges have been posted; none are closed. The three posted bridges are:
  - » PA 160 over the Little Conemaugh in Wilmore Township;
  - » SR 1009 over Chest Creek in Allegheny Township; and
  - » SR 3022 (Incline Plane Road) over the Stonycreek River in Johnstown. This bridge is more than 130 years old and has a historic designation. Therefore, alterations and repairs are restricted despite its "Poor" condition rating. In addition, its average

- annual daily traffic (AADT) is very low, which translates to slower deterioration of the bridge.
- The average age of state-owned bridges in the county is 52 years, with the oldest built in 1832.
- The county's number of state bridges rated as "Good" has declined in recent years, from a total of 170 in 2019 to a present-day total of 157 (Figure 29).

  PennDOT and the MPO continue to address the county's inventory of "Poor" bridges. The percentage of "Poor" bridges on the state system is 2.1 percent, lower (better) than it was five years ago (Figure 31). If measured by deck area, the percentage of "Poor" bridges is also at 2.1 percent, down from 38,400 square feet to 29,044 square feet.
- The County and its municipalities own a total of 87 structures that are greater than 20 feet in length. Of this total, nine are currently posted, while one (Cottonwood Street over Walnut

Run in Northern Cambria Borough) is closed. The number of posted bridges on the local network has been trending downward from a high of 16 in 2019 to a present-day total of nine. Financial guidance for the MPO for the 2025 12-Year Program includes an estimated \$307.5 million for addressing off-system bridges over the next 12 years.

#### **Planning Implications**

- Additional investment in bridge infrastructure has allowed PennDOT and the MPO to address the county's aging bridge stock.
- PennDOT continues to address bridge infrastructure using a Lowest Life-Cycle Cost (LLCC) based asset management approach to project selection and prioritization to keep "Good" bridges from becoming "Poor" and yield additional years of service from existing structures.

Figure 29: Cambria County Bridge Conditions by Count, January 2024

BPN	Total	Deck Area (msf)	Closed	Posted	Good	Fair	Poor
Local >20 ft	87	0.18	2	12	24	47	16
State >8 ft	333	1.4	0	3	157	169	7

Figure 30: Cambria County Bridges on the State System, Length 8 Feet and Longer, by Year Built

■Good ■Fair ■Poor

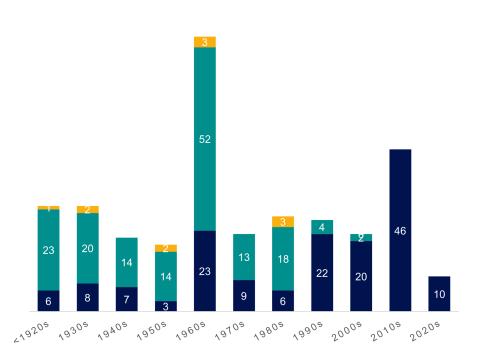


Figure 31: Cambria County Bridge Conditions by Count, January 2024

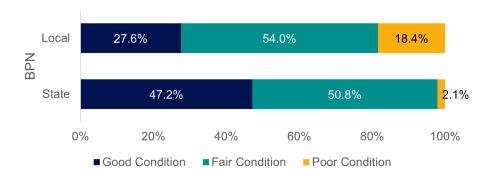
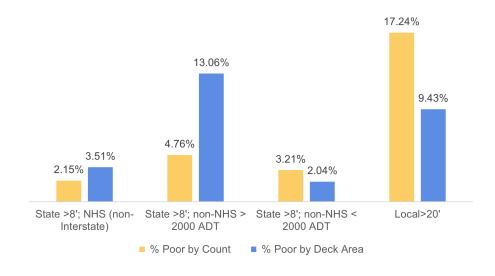


Figure 32: Cambria County Percentage of "Poor" Bridges by BPN, 2022



The county had four structures on BPN 3 that were rated as "Poor," two of which were structures over 200 feet in length. Three of the four are either programmed for improvements on the TIP or have recently been improved and are no longer "Poor."



# System Management and Operations

#### **Overview**

- The MPO participates in the development of Regional Operations Plans
   (ROP—a regional planning document aimed at identifying existing traffic system management and operations
   (TSMO) infrastructure and needs as well as a vision and goals).
- Improving TSMO is a way to increase the travel time reliability and capacity of the county's roadways by using a wide range of strategies to help manage traffic and reduce congestion. The MPO is committed to identifying operations activities and projects necessary to meet the mission, vision, and goals of the program.
- In the initial 2018 Central Region ROP, 42 projects were identified, ranging from intelligent transportation systems (ITS) and traffic signal improvements to incident management and preventive safety technologies. Integrated Corridor

- Management (ICM) was also a key component of the ROP. These projects take a holistic approach, maximizing the existing capacity of parallel routes and emphasizing multimodal approaches to congestion management.
- An interim update to the ROP in 2021 documented the status of ROP projects, including those that have been completed. These include a \$755,000 traffic signal improvement project along PA 56 near US 219. A number of other projects have been documented, including queue detection along US 22 eastbound near US 219, and along US 219 southbound at its interchange with Elton Road. While 16 new projects were added as part of the Interim Update to the ROP, none were in Cambria County.
- There are 138 signalized intersections in Cambria County.

#### **Planning Implications**

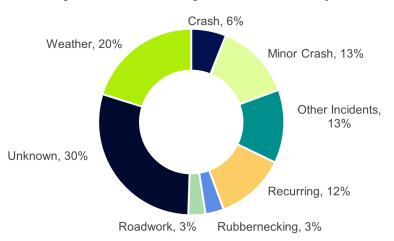
- Ongoing planning for TSMO will help ensure that the MPO is optimizing its transportation network, reducing congestion, delays, and opportunity costs.
- Improving transportation operations is also important for freight movement, providing convenient, reliable, and predictable travel times for shippers and carriers.

Figure 33: Pennsylvania's TSMO Regions



Source: PennDOT Bureau of Operations

Figure 34: Causes of Congestion, Cambria County



Source: PennDOT Bureau of Operations

Figure 35: AADT, 2019

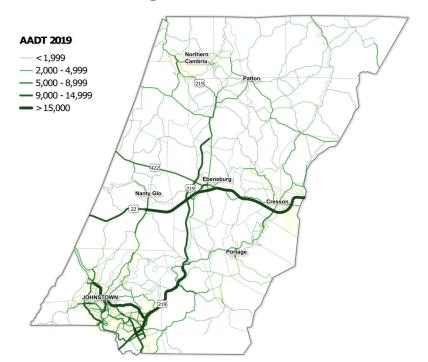
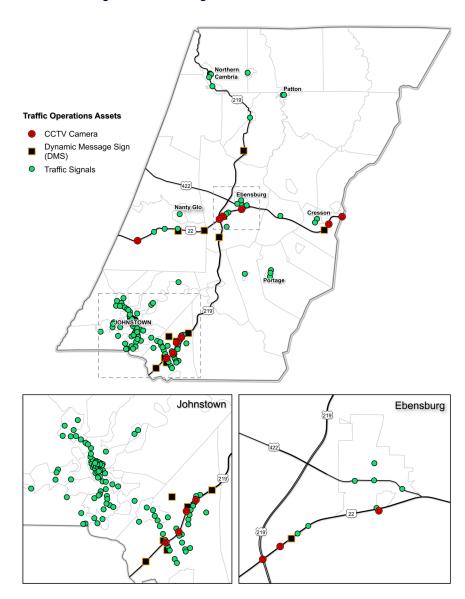


Figure 36: Traffic Signals, CCTV, and DMS Locations



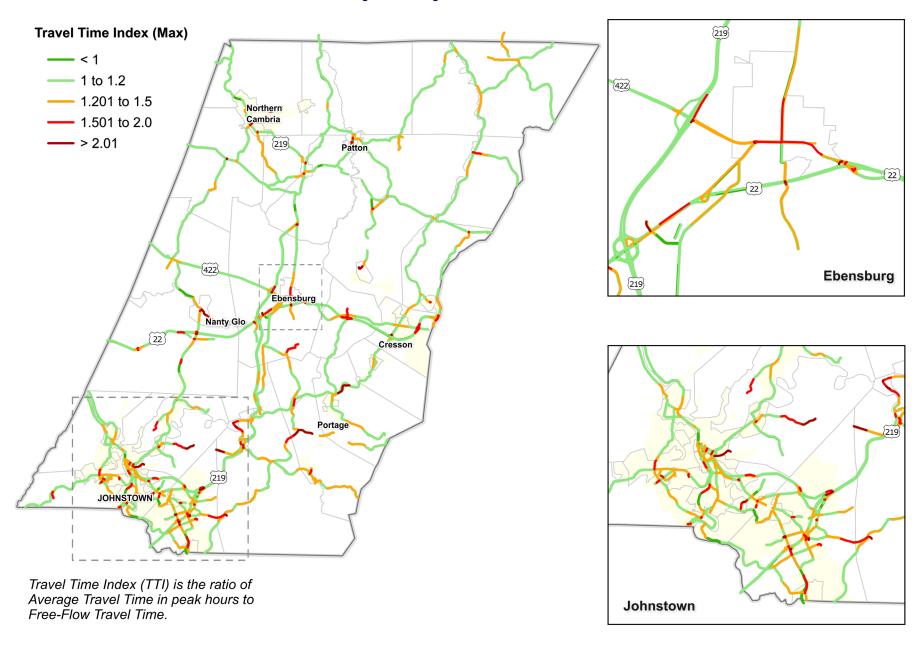


Figure 37: Congested Corridors, 2022



### **Public Transportation**

#### **Overview**

- Cambria County Transit Authority
  (CamTran) is the county's primary
  public transportation service provider.
  The agency provides fixed-route bus,
  complementary paratransit service,
  and demand-responsive transportation.
  CamTran is the urban service area in
  Greater Johnstown and surrounding
  areas, while CamTran+ serves the county's northern environs and Windber
  Borough in Somerset County.
- CamTran's service encompasses the following:
  - » Urban Division offers 14 fixed-route services throughout the greater Johnstown area. Buses are equipped with bike racks to enhance the transportation network accessibility and provide greater access to recreational trails.
  - » Rural Division service (CamTran+) operates in the central and northern

- portions of the county with seven fixed-route options.
- » Reserve-a-Ride is a door-to-door shared-ride service. Service is available in Cambria and Blair counties, as well as the northern regions of Bedford and Somerset counties.
- Persons with Disabilities (PwD) service provides transit for people ages
   18 to 64 years old with a permanent or temporary disability.
- » Park & Ride bus service is available in Ebensburg on US 22 with operating trips Monday through Friday at the morning and evening rush hours.
- During the FY 2021-22 reporting period, CamTran provided nearly 685,000 fixed-route passenger trips, over 111,000 of which were for seniors (Figures 38 and 39). Those figures reflect a partial recovery in ridership following the COVID-19 pandemic. By comparison, CamTran's pre-pandemic ridership in FY 2018-19

- was 1.16 million passenger trips. Lower ridership translates to increased operating expenses per rider.
- Senior ridership accounts for approximately 16 percent of total fixed-route ridership.
- CamTran's fixed-route network provides transportation to and from most of the county's major employers and community hubs, including the Greater Johnstown region and into Windber, Ebensburg, and as far north as Northern Cambria Borough.
- The system operates a fleet of 72 vehicles, with a mix of compressed natural gas (CNG), diesel, and hybrid-electric vehicles. CamTran has also embraced alternative energy sources with 297 solar panels on its operations building in Johnstown.
- CamTran also operates the Johnstown Inclined Plane, a vehicular incline that opened in 1891 and connects the City of

Johnstown with Westmont Borough. It is currently the subject of a \$12 million renovation project. The inclined plane is integrated with CamTran's service, which provides connections from the incline to downtown Johnstown destinations. Annual incline ridership for FY 2018-19 was 65,804, before falling to 40,835 in FY 2019-20 due to COVID-19. During FY 2020-21, the incline was only open for six months, with a ridership of 20,193. The incline closed in January 2021 for renovations, which are ongoing.

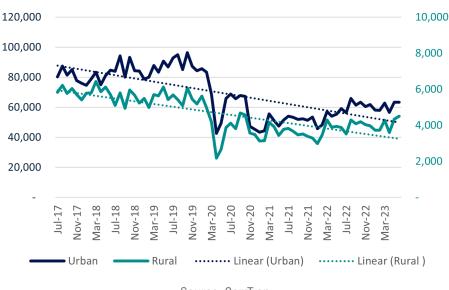
 The Johnstown inclined plane is the steepest vehicular inclined plane in the world, with a grade of 70.9 percent. This distinguishing feature attracts tourists and also serves a vital transportation function, connecting the Johnstown valley with hilltop communities.

#### **Planning Implications**

- Public transit ridership decreased significantly in Cambria County, as it did nationwide, due to the COVID-19 pandemic and the unprecedented impacts it caused to daily life. Public transportation services operated throughout the pandemic, offering lifeline services to transit-dependent populations.
- Public transit usage has not yet rebounded to pre-pandemic levels. Planning for public transportation services will need to encourage transit-oriented development to increase the attractiveness of transit as a transportation option and rebuild its passenger base.

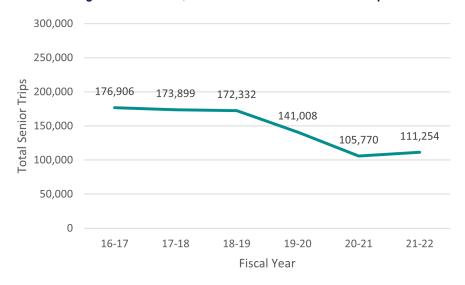
- Declines in ridership and changing public preferences could signal potential for marketing campaigns and promotion while considering emerging mobility solutions such as micromobility.
- The MPO's Coordinated Public Transit Human Services Transportation Plan was last updated in February 2017. CamTran intends to revise the plan in 2024.
- Public transportation's role as an important element of meeting the county's mobility challenges will continue to evolve. As people turn to public transportation to meet mobility needs, the MPO must be ready to meet those challenges with the facilities and services that customers expect.

Figure 38: CamTran, Total Fixed-Route Ridership



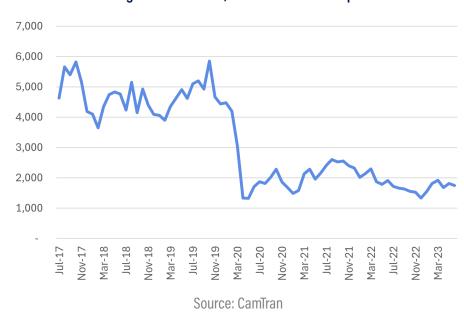
Source: CamTran

Figure 39: CamTran, Total Senior Fixed-Route Ridership



Source: PennDOT Bureau of Public Transit Annual Report

Figure 40: CamTran, Total Shared-Ride Trips

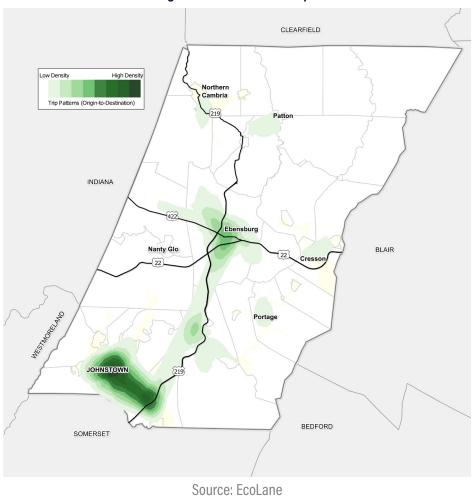


Transit data reflects a decline in ridership due to the COVID-19 pandemic, primarily in calendar years 2020 and 2021.

Subsequent years show ridership beginning to rebound.

Figure 41: CamTran's Bus Routes **CamTran Routes Urban Routes** Rural Routes Northern Cambria Cressor Nanty Glo JOHNSTOWN

Figure 42: Shared-Ride Trips



CamTran and CamTran+ provide extensive coverage of Cambria County and into the adjoining counties of Blair and Somerset.

Source: CamTran

Johnstown and Ebensburg have the county's greatest concentration of shared-ride origin-to-destination trips.

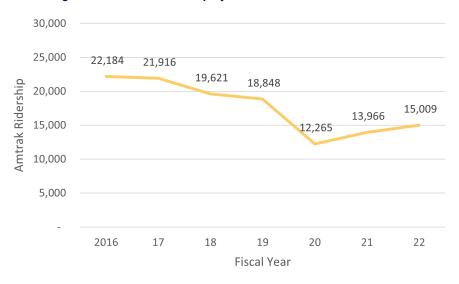


# Passenger Rail

#### **Overview**

- Amtrak provides intercity passenger rail service to Cambria County on Norfolk Southern (NS) lines from its station in downtown Johnstown. Amtrak currently provides one round trip daily via its Pennsylvanian service. A second daily train is slated to begin service by 2026.
- The Amtrak Johnstown Station underwent ADA improvements in 2018, which included upgrades to the restrooms, accessible pathways, and parking. Minor modifications to the entrances and ramps were also made to comply with ADA regulations.
- According to the FY 2022 fact sheet released by the Commonwealth of Pennsylvania, Amtrak's station in Johnstown reached a total ridership of approximately 15,000 in that year.
- Johnstown's Amtrak station is in stable condition, with a new roof. Station repairs and upgrades to the 1915

Figure 43: Amtrak Ridership by Fiscal Year, Johnstown Station



Note that Amtrak suspended *Pennsylvanian* service in March, April, and May 2020 due to the COVID-19 pandemic.

Source: Amtrak Pennsylvania State Fact Sheet

building are being addressed using \$11.2 million in USDOT RAISE grant funding, as part of a multifaceted project to update public transportation facilities and public spaces in Johnstown.

#### **Planning Implications**

 The additional service provided by a second train on the *Pennsylvanian* will make tourism and business travel more feasible between Johnstown and Pittsburgh.



# Rail Freight

#### **Overview**

- Rail freight transportation plays a vital role in boosting economic competitiveness and supporting sustained economic growth. Railroads offer shippers and receivers a cost-effective and environmentally friendly way of transporting heavy bulk products such as coal. Rail freight capacity helps to alleviate the strain on the roadway network by reducing the number of trucks on the road, which in turn helps to preserve pavement conditions. Given its critical role in the county's economy, it is essential to preserve and restore railroad infrastructure.
- The Keystone Corridor is a 349-milelong railway route linking Philadelphia and Pittsburgh. Norfolk Southern (NS) owns the western portion of the line between Pittsburgh and Harrisburg, sharing the track with Amtrak passenger

- rail. Amtrak owns the eastern portion of the line between Harrisburg and Philadelphia.
- Class I rail freight service in the county is provided by NS and CSX Transportation (CSXT). NS operates approximately 70 miles of track throughout the southern parts of the county, and CSXT operates trackage from Johnstown into Somerset County.
- Two companies, Lehigh Valley Railroad Johnstown (LVRJ) and R.J. Corman Railroad/Pennsylvania Lines (RJCP), operate approximately 64 miles of class III (short line) railroad in the county. The northern half of the county is primarily served by RJCP, which operates on approximately 50 miles of track, while LVRJ operates about 15 miles of track throughout Johnstown.

#### **Planning Implications**

- The presence of the NS mainline within the county is a tourism draw in its own right. The line attracts rail fans visiting locations such as the Horseshoe Curve and the tunnels in Gallitzin. Many communities along PA 53 have viewing parks and picnic areas along the mainline.
- Coordinating industrial land use and economic development planning along rail lines will help optimize rail freight transportation efficiency, support economic development, and reduce environmental and traffic impacts to communities.



Figure 44: Railroad Network



-- Class I

-- Class III

--- Abandoned - No Track

#### **Railroad Operator**

CSXT - CSX Transportation

NS - Norfolk Southern

RJCP - R.J. Corman Railroad/Pennsylvania Lines

LVRJ - Lehigh Valley Railroad Johnstown

RJCP

NS



# **Active Transportation**

#### **Overview**

- A Bicycle and Pedestrian Plan was adopted by the Cambria County Planning Commission in January 2019 and updated in April 2021.
- Cambria County features roughly 185
  miles of trails (Figure 45). This includes
  bicycle, pedestrian, and hiking trails, as
  well as river waterways, snowmobile
  paths, and ATV routes, all designated for
  outdoor recreation.
- The adoption and implementation of sidewalk ordinances can enhance the safety and maintenance of pedestrian infrastructure in urban and densely populated areas. According to Cambria County's most recent bike-ped plan, approximately 40 percent of municipalities have some type of sidewalk regulations in place.
- Ensuring equitable and comprehensive access to active transportation across both urban and rural areas is important, given that approximately 11 percent of

- the county's households do not have access to a vehicle. The lack of access to transportation can limit employment opportunities, restrict access to health-care, and reduce social mobility.
- The Cambria County Conservation & Recreation Authority (CCCRA) is working to secure the necessary funding to complete its planned loop on the Ghost Town Trail. When finished, the trail will be the first continuous loop rail-trail in the United States, as confirmed by the Rails to Trails Conservancy. In 2009, the trail welcomed around 80,000 users. Since the COVID-19 pandemic, this number has increased to approximately 160,000 per year.

#### **Planning Implications**

 Bicycle and pedestrian networks are a valuable asset for enhancing economic opportunities, especially in proximity to employers and commercial areas. The improvement of safety measures along these networks can have positive effects

- on the communities they serve. By facilitating safer and more reliable transportation, such networks can contribute to the economic development of an area, while also promoting healthy lifestyles and social interaction.
- Cambria County has a diverse range of trails that traverse both rural and urban landscapes. Enhancing trail connectivity is a key factor in expanding access to and use of outdoor recreational activities.
- To enhance the livability, safety, and health of Cambria County and its communities, it is essential to address safety concerns such as high traffic speeds, limited bicycle facilities, and poor infrastructure maintenance (such as shoulder sweeping). Addressing these issues promotes active transportation.

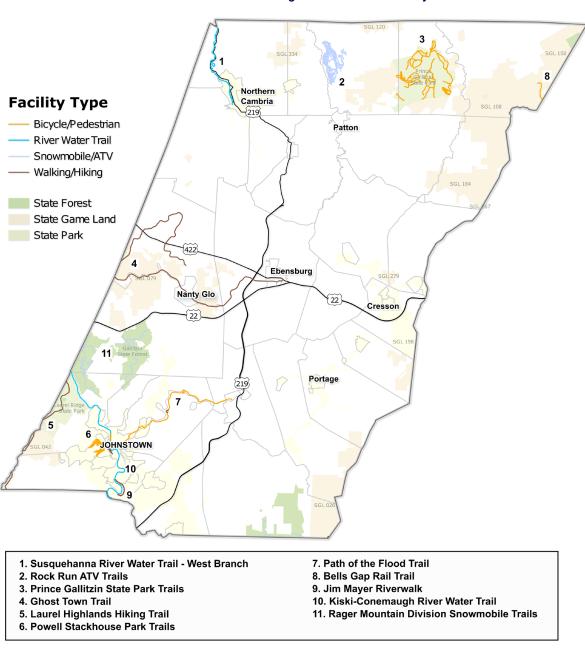


Figure 45: Cambria County Trails



### **Aviation**

#### **Overview**

- Cambria County has five airports and two private heliports. Of the five airports, two are public-use: the Ebensburg Airport and the John Murtha Johnstown-Cambria County Airport, which serves as the region's commercial airport. These airports play a critical role in facilitating air transportation and connecting the county to other regions and the national and international aviation systems.
- Conemaugh Memorial Medical Center, serviced by one of the helipads, is the only Level 1 Trauma Center in the county. The next-closest Level 1 Trauma Center is in Pittsburgh.
- The John Murtha Johnstown-Cambria County Airport (JST) connects local residents with the broader aviation system.
   Besides commercial services, the airport handles a range of general aviation and military traffic. It offers services such

- as flight training, aerial advertising, air charters, and corporate/business flights.
- The Johnstown Airport is served by Skywest Airlines, flying as United Express. This service provides daily access to Chicago O'Hare and Washington-Dulles International airports, giving the airport major and diverse connections.
- There is a significant military presence at the airport. The Army National Guard is stationed at the airport and contributes to regular military activity, mainly for helicopter training and exercises. The airport is a valuable aviation hub, with a strategic location and comprehensive facilities that support transportation and logistics operations in the county.
- Activity has increased dramatically at the airport in recent years. Overall enplanements grew to 7,764 in 2022, and exceeded 10,000 during 2023—for the first time since 2006. The milestone

- makes the airport eligible for \$1 million in Federal Aviation Administration (FAA) funding for the airfield.
- According to PennDOT's 2022 Aviation Economic Impact Study, the Johnstown airport has an impact of \$76.3 million and a workforce of 523. It marked its 75th anniversary of service to the region during 2023.
- The Ebensburg airport supports emergency medical air transportation, private flight training, and military helicopter training.
- Airport Hazard Zoning, which keeps the area surrounding airports clear of potential obstacles to flight paths such as tall structures, promotes the safety of the public and the capacity of airports. Of the 12 municipalities surrounding the county's two public-use airports, six have passed Act 164 (Airport Hazard Zoning) Ordinances, as reported by the PennDOT Bureau of Aviation.

#### **Planning Implications**

- Airport Hazard Zoning is needed to ensure compatibility through strategic land use management approaches that protect the airport's operational capability. These ordinances guide land use in the surrounding areas of airports to prevent accidents and hazards that could harm safety and airport operations. Only half of surrounding municipalities have currently enacted Act 164 (Airport Hazard Zoning) Ordinances.
- The airport currently does not have the air traffic to support a bus stop, although one could be viable in the future and would help provide more transportation interconnections as the airport continues to grow. These may include designated pick-up and drop-off zones for ride-sharing and taxi services.

- The Johnstown Airport Authority is pursuing an ultra-low-cost carrier.
   Increased air service would increase demand for parking capacity.
- The Johnstown airport has applied for funding for EV charging stations for vehicles and aircraft to reduce the net carbon footprint of aviation activity.
- In March 2024, Cambria County received \$1.92 million from the U.S. Department of Transportation's Strengthening Mobility and Revolutionizing Transportation (SMART) Grants Program. The grant will enable the County's emergency services to use drones to deliver lifesaving medical supplies to rural areas. The program has the potential to become a model for other states as it is built and tested.

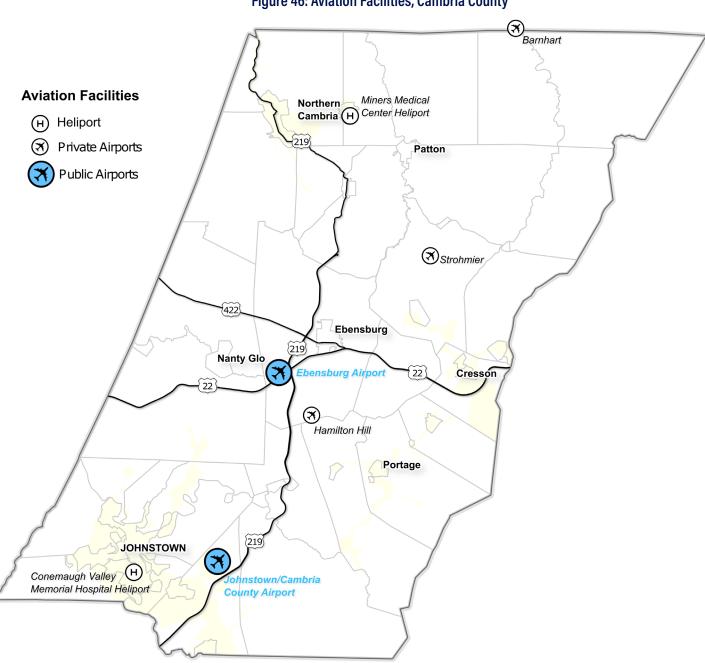


Figure 46: Aviation Facilities, Cambria County



### **Electric Vehicles**

#### **Overview**

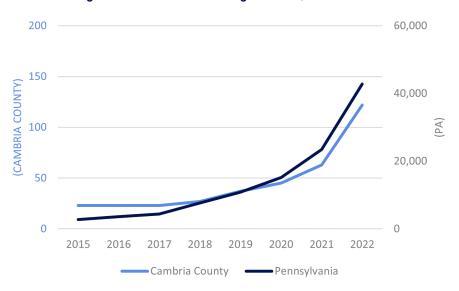
 Electric vehicle (EV) registrations have increased significantly in the past five years, although they still represent a very small percentage of vehicles. Of the county's 115,905 vehicle registrations (2022), 122 are EVs (Figure 47).

#### **Planning Implications**

Although the county does not have designated alternative fuel corridors, the number of registered EVs is on the rise. As such, it is increasingly important to establish infrastructure that can support this growing trend. This infrastructure will be required to provide charging stations, maintenance, and other services that are essential for the proper functioning of EVs.

- Statewide, PennDOT is prioritizing charging stations along the Interstates.
   After that need is met, PennDOT will have a greater capacity to allocate funds toward enhancing EV charging availability in the state's rural areas.
- County planning for new EV infrastructure based on key corridors and destinations is needed to guide decision-making and prioritization efforts.

Figure 47: Electric Vehicle Registrations, 2015 to 2022



Source: PennDOT Annual Report of Registrations



## Performance Measures

#### **Overview**

- In 2012, the federal surface transportation law MAP-21 was passed, which increased the emphasis on performance management in transportation planning. The focus on performance and outcomes is aimed at encouraging states and MPOs to allocate resources toward projects that will collectively contribute to achieving national objectives. The emphasis on performance management in transportation planning has continued with the passage of subsequent legislation such as the FAST Act in 2015 and the Bipartisan Infrastructure Law (BIL) in 2021.
- PennDOT develops state-level performance targets for each of the federally required measures: Safety (PM-1), System Condition (PM-2), and System Performance (PM-3). Pennsylvania's MPOs and RPOs may adopt the state

- targets or establish their own. The Cambria County MPO has committed to supporting all three state-designated performance targets.
- The Cambria County MPO has not met its safety targets (Figure 48). The county's annual average roadway fatality target was adjusted upward to 9.9 from
- 7.9 between 2019-23 and 2020-24. The region also did not meet its targets for average annual number of serious injuries or serious injury rate.
- Cambria County is meeting two out of three targets related to system condition. On the non-Interstate NHS network,1 the percentage of the county's

Figure 48: Performance Measure Targets (PM-1)

	Five-Year Rolling Avera	
Performance Measure	Baseline	Target
	2018-2022	2020-2024
Number of Fatalities	9.4	9.9
Fatality Rate	0.943	0.988
Number of Serious Injuries	48.0	47.8
Serious Injury Rate	4.816	4.771
Number of Non-Motorized Fatalities and Serious Injuries	5.4	5.7
Serious injuries		

Note: Future VMT estimates are anticipated to remain steady over the next few years.

<sup>&</sup>lt;sup>1</sup> Targets are not federally required for non-NHS roadways.

roadways rated as Excellent or Good is 26.12 percent, short of the 2025 target rate of 35 percent. The share of roadways in "Poor" condition has been trending in a positive direction over the past decade and is currently at 1.01 percent, better than the 2025 target rate of 2 percent. Cambria County bridges on the NHS rated "Poor" account for 3.53 percent of total bridge deck area, better than the 2025 target of 5 percent (Figure 49).

Travel time reliability measures within the Johnstown region are currently at 97.7 percent, higher (better) than the statewide rate of 92.5 percent (and the statewide target of 88 percent). Since 2018, reliability of roadways within the Johnstown region has been consistently higher than that of the state as a whole (Figure 50).

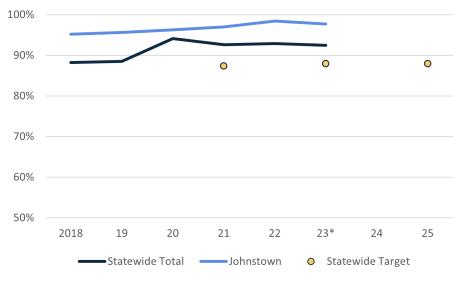
#### **Planning Implications**

- Cambria County will continue to collaborate with PennDOT and FHWA on performance measurement.
- The strategic approach introduced by MAP-21 and continued under the FAST Act and BIL involves leveraging system information to guide investment and policy decisions. The objective is to assist MPOs in making well-informed investment decisions that enable them to optimize their results.

Figure 49: Performance Measure Targets (PM-2)

		Current (2022)	2025 Target
NHS Bridges (Interstate and Non-Interstate)	Percent Poor by Deck Area	3.53%	5%
NHS Pavements (Interstate)	Percent Miles in Poor Condition	N/A	N/A
	Percent Miles in Good Condition	N/A	N/A
NHS Pavements	Percent Miles in Poor Condition	1.01%	2%
(Non-Interstate)	Percent Miles in Good Condition	26.12%	35%

Figure 50: PM-3, Travel Time Reliability Measures, NHS Non-Interstate



Source: Pennsylvania Statewide and Regional Summary (Data has not yet been certified by Pennsylvania)

Figure 51: PM-2 Pavement Rating System

Rating	Good	Fair	Poor
IRI (inches/miles)	< 95	95 - 170	> 170
Cracking Percentage (%)		CRCP: 5 - 10	CRCP: > 10
	< 5	Jointed: 5-15	Jointed: > 15
		Asphalt: 5 - 20	Asphalt: > 20
Rutting (inches)	< 0.2	0.2 - 0.4	> 0.4
Faulting (inches)	< 0.1	0.10 - 0.15	> 0.15

Figure 52: PM-2 Bridge Rating System

Rating	Good	Fair	Poor
Deck	≥7	5 or 6	≤ 4
Superstructure	≥7	5 or 6	≤ 4
Substructure	≥7	5 or 6	≤ 4
Culvert	≥7	5 or 6	≤ 4



### **Environmental Resources**

#### **Overview**

- Cambria County contains many natural resources, including 76 miles of Class A streams, 75 square miles of state game land, and 185 miles of Explore PA trails that all have numerous sensitive natural resources.
- Using the county's 2025 Transportation Improvement Program (TIP), the MPO performed a buffer analysis based on the Pennsylvania National Diversity Inventory (PNDI) environmental review process for transportation projects. Projects that involved new roadways or network features were allotted a buffer of 2,640 feet, while others received a buffer of 200 feet. Environmental resources or features were counted as "potentially impacted" if they intersected with any project buffers.
- Cambria County's TIP is primarily composed of repair, restoration, and safety projects rather than new construction

- and major infrastructure projects. Most of the projects were designated a 200foot buffer. Due to the smaller scale of the projects, they will have fewer adverse environmental impacts than larger-scale projects.
- The buffer analysis evaluated the TIP projects against a list of more than 30 types of natural resources to determine potential impacts. The top five affected resources are Prime Farmland Soils, NWI Wetlands, TMDL Streams, Integrated List Attaining Streams, and 100-year Floodplains (Figure 54).

#### **Planning Implications**

The county's natural resources offer a variety of valuable benefits, including recreation opportunities, enhanced aesthetics and quality-of-life, economic potential, and support for environmental sustainability. Identifying and protecting areas with these resources is vital in planning and developing for the future.

- Given the potential impacts on bodies of water, the MPO will work with PennDOT, municipalities, and other environmentally concerned organizations, such as Cambria County's Conservation District, to mitigate harm to these resources. Protection of reservoirs, wetlands, rivers, and creeks is vital to the health of human communities and natural ecosystems. This is particularly important for bodies of water that support high levels of biodiversity or unique biological resources, provide drinking water, or are popular recreational destinations.
- Cooperative efforts in land use planning among municipal, county, state, and federal agencies; developers; and residents can lessen the impact of development on valuable natural resources. Discussion with local organizations and officials early in the project development process can provide insight into environmental concerns surrounding projects and help mitigate potential impacts.

By using the PennDOT Connects process, the county will collaborate with other organizations and agencies to ensure that projects on the TIP are carried out in a way that avoids, minimizes, or mitigates any potential impacts.

**Figure 53: Environmental Features** 

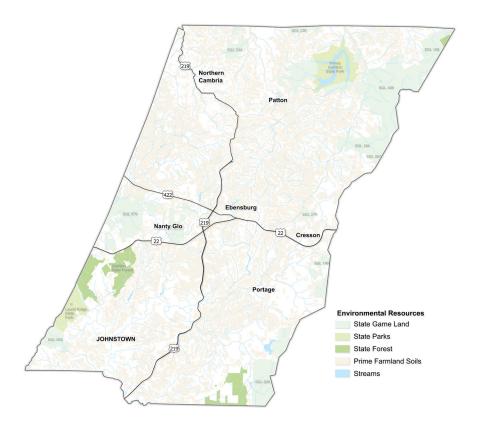
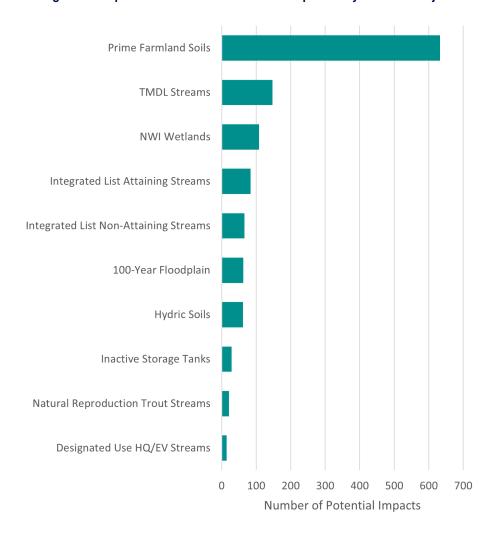


Figure 54: Top 10 Environmental Resources Impacted by 2025 TIP Projects





### Revenue Forecast

#### **Overview**

- The Federal Highway Administration requires long-range transportation plans to include an estimate of the amount of revenue the MPO could reasonably expect to receive over the life of the plan—in this case, through 2050.
- The MPO assumes an estimated \$666.9 million in total revenue over the 25-year LRTP period. The 2025 12-Year Program (TYP) represents \$307.6 million of this amount, leaving a balance of \$359.3 million that will be programmed to advance a mix of highway, bridge, and safety projects in the "out years."
- No new state funding acts (such as Act 89 of 2013 or Act 44 of 2007) or increases to revenue from the state's Motor License Fund are anticipated as part of a conservative revenue forecast.
- As a conservative forecast, the MPO assumes that future federal surface transportation funding reauthorizations

- will provide no funding increases beyond BIL, which expires in September 2026.
- Potential funding from competitive PennDOT grant programs such as Green Light-Go and the Multimodal Transportation Fund was excluded from the revenue forecast, given the unpredictability of future discretionary awards.
- The county's draft 2025 Transportation Improvement Program (TIP) represents a total investment of \$102.2 million—an increase of about \$33 million from the 2019 TIP.
- Increases in revenue will be offset by inflation. The LRTP is financially constrained to \$666.9 million through 2050, but after adjusting for inflation, its real value decreases to \$578.6 million.
- Projects shown in Appendix A as part of the 2025 TYP are considered funded projects, or within the MPO's financial constraint. Projects that appear

- in Appendix B as "illustrative" are not currently funded. The MPO will consider the candidates from the illustrative list as future programs are being developed.
- Figure 55 details the anticipated revenue available to Cambria County over the various planning periods.

Figure 55: Revenue per Planning Period

Planning Period		Amount (\$000s)
2025-28	TIP	\$102,247
2025-36	TYP	\$307,591
2025-50	LRTP	\$666,915
2025-50	LRTP	\$666,915

Figure 56: State and Federal Funding Categories with 2025 TIP Highway/Bridge Base Funding Allocation

Acronym	Program Name	Eligible Projects	Amount (\$000s)
BRIP	Bridge Formula Investment Program	Replacement, rehabilitation, preservation, protection, or construction of highway bridges over 20 feet in length	\$12,967
CRP - Urban	Carbon Reduction – Urban Program	Traffic monitoring, management, and control facilities; public transit projects; bicycle, pedestrian, and non-motorized facilities; advanced transportation and congestion management technologies; and infrastructure-based Intelligent Transportation Systems	\$674
CRP	Carbon Reduction Program	Deployment of alternative fuel vehicles, public transportation projects, non-motorized transportation improvements, traffic management/monitoring/control, energy efficient alternatives to street lighting and traffic control devices, projects that reduce environmental/community impacts of freight movement, advanced transportation/congestion management technologies	\$1,847
CMAQ	Congestion Mitigation and Air Quality	Congestion reduction and traffic flow improvements, travel demand management activities, transit improvements, carpooling/vanpooling, bicycle/pedestrian facilities and programs, freight and intermodal initiatives, etc.	\$5,414
HSIP	Highway Safety Improvement Program	Safety improvement projects that correct or improve a hazardous road location or feature, or address a highway safety problem	\$4,408
BOF	Bridge Off-System Funding	Replacement, rehabilitation, preservation, and protection of minor collector and local functional class bridges over 20 feet in length	\$8,559
State Bridge	State Bridge Funding (Appropriation 185/183)	State (185) and local (183) bridge capital projects	\$14,798
State Highway	State Highway Funding (Appropriation 581)	Highway capital projects	\$21,879
STP	Surface Transportation Program	Federal-aid highways and bridges, transportation enhancements/alternatives (bicycle, pedestrian, etc.), safety improvements, recreational trail projects, truck parking facilities, etc.	\$10,710
NHPP	National Highway Performance Program	Highway and bridge improvement projects on the NHS, resiliency improvements, transit/operational improvements, bicycle and pedestrian projects, highway safety improvements, environmental mitigation related to NHPP projects, etc.	\$20,991
		Total	\$102,248

Figure 57: 2025 TIP Highway-Bridge Base Funding Allocation

Funding Type		Amount (\$000s)
NHPP		20,991
STP		10,710
State Highway		21,879
State Bridge		14,798
Off-System Bridges		8,559
HSIP		4,408
CMAQ		5,414
Carbon Reduction		1,847
Carbon Reduction - Urban		674
Bridge Formula Program		12,967
	Total	\$102,248

Source: PennDOT Financial Guidance Documentation

Figure 58: 2025-28 TIP Annual Averages

Project Type		Amount (\$000s)
Bridge		9,082
Roadway		13,349
Safety		1,102
<b>Other</b>		1,984
	Tota	l \$25,517

Source: PennDOT Financial Guidance Documentation

Figure 59: Financial Guidance Trends by TIP, 2015-25 (\$000s)



Source: PennDOT Financial Guidance Documentation

Figure 60: Cambria County Carryovers (\$000s)

Base Financial Guidance amount	\$102,069
Anticipated carryover amount	(\$69,750)
Total funding available for new projects	\$32,319

Figure 61: Carryovers

Local Bridges	\$450,000
State Bridges	\$18.9 million
Roadways	\$47.3 million
Other	\$3.1 million

Figure 62: 2025 TIP Summary

	Amount (\$000s)	Number of Projects
Base Financial Guidance Amount	\$102,069	49
Roadway Total	\$65,924	13
Raised Pavement Markings	200	2
Highway Restoration	53,279	12
Environmental Monitoring (Line Item)	100	_
Special Funding - CRP, CRPU, HSIP, CMAQ (Includes Line Items)	12,345	1
Bridge Total	\$36,145	36
State Bridges	33,322	31
Local Bridges	2,823	5



# Project Selection and Prioritization

#### **LRTP Projects**

The LRTP is a project-based plan. Ideas for projects are submitted by the public, municipalities, other stakeholders such as CamTran, PennDOT, and the MPO. An LRTP must be fiscally constrained, meaning that the estimated total cost of listed projects must not exceed the amount of funding reasonably expected to be available over the planning period (25 years). A project selection and prioritization process is necessary to ensure that the region's finite transportation funding is used to advance the projects that yield the most benefit, while aligning with federal and state requirements and the priorities articulated in the MPO's LRTP.

The Cambria County MPO conducts initial project prioritization using selection criteria aimed at quantifying the merits of a proposed project. The criteria are developed to emphasize federal and state priorities such as asset management and performance-based planning and programming.

For example, as described in the Performance Measures section, the Cambria County MPO has adopted state-designated measures related to system performance, as required by federal law. The measures address the following:

- Safety (PM-1)
- System Condition (PM-2)
- System Performance (PM-3)

Cambria County has not met its safety targets for annual average roadway fatalities and average annual number of serious injuries or serious injury rate. Therefore, projects proposed for the LRTP that would help improve safety performance in these areas are given a higher priority in the LRTP project selection process.

For this 2050 LRTP, the MPO revised its evaluation criteria to yield a more objective scoring of candidate projects. The MPO used a weighted scoring system as detailed in Figures 64, 65, and 66,

prioritizing projects that help meet system performance targets. Projects were scored against the criteria, then grouped into high-medium-low categories. Professional judgement and an understanding of total system needs across modes was used to prioritize projects within categories.

Projects that are within financial constraint are listed in Appendix A. This includes projects from the 2025 12-Year Program (projects from FFY 2025 through FFY 2036).

For longer-term project needs between FFY 2036 and FFY 2050 (or the "out years"), the MPO used line items to document the needed investment levels for highway, bridge, and safety projects. Funding shares were drawn from Financial Guidance documentation that PennDOT released in April 2023 and are on a 60.2 percent–35.5 percent–4.3 percent split by project type, respectively.

Project needs always outstrip available funding. The remaining projects that exceed

anticipated funding are cataloged in this plan as Appendix B. They are considered to be "eligible, but unfunded" (or "illustrative") projects. They will be considered for future transportation programs as funding allows.

For future plan and program updates, the MPO is interested in establishing a formal prioritization process for projects related to CMAQ, HSIP, CRP, and BOF bridges.

#### **TIP Projects**

The Transportation Improvement Program (TIP) is the first four years of the LRTP. It lists the projects expected to be undertaken soonest, in this case between FY 2025 and FY 2028.

Prioritization of projects to develop the TIP uses additional tools that produce a list of essential maintenance and rehabilitation projects to preserve asset condition in accordance with asset management principles and targets. Tools include PennDOT's BridgeCare system (also

known as the Bridge Asset Management System, or BAMS) and its Pavement Asset Management System (PAMS). PennDOT District 9-0 also maintains tools such as its bridge risk assessment tools to evaluate the performance of the region's roadway and bridge network.

Asset management tools and calculations are not intended to replace human judgment or the traditional role of the MPO and its deliberations. Moreover, it should be understood that the use of asset management tools to meet federal condition targets for National Highway System roadways and bridges can come at the expense of other types of candidate projects, such as bicycle/pedestrian improvements or projects intended to stimulate or maintain an area's economic development potential. Addressing competing priorities across modes and functional classification within financial constraint is a critical function of the MPO in program development.

Figure 63: Roadway Project Selection Criteria

Weight	Performance Measure	Individual Weight	Criteria Description	Definition Rating	Value Multiplier
			_	<-0.1	0
20%	PM-1	20%	Safety - Network Screening - What is the excess safety value of the	-0.1 - 0.1	0.25
20%	FIVI-I	2070	roadway or intersection? (PM-1)	0.1 - 0.25	0.5
				>0.25	1
			<u> </u>	N/A	0
				Excellent	0.125
		10%	System Deficiencies (Pavement) – IRI (PM-2)	Good	0.25
				Fair	0.5
200/	DM 0			Poor	1
20%	PM-2			N/A	0
				Excellent	0.125
	10%	10%	System Deficiencies (Pavement) – OPI (PM-2)	Good	0.25
				Fair	0.5
			_	Poor	1
200/	DM 2	200/	Performance/Operations – Is project located on a corridor that is	No	0
20%	PM-3	20%	deemed unreliable? (PM-3)	Yes	1
		504		0%-4%	0
			Network - Percent trucks – What is the overall percentage of	5%-9%	0.5
		5%	medium/heavy duty commercial trucks?	10% - 14%	0.75
			>15%	>15%	1
	ĺ	Network 5% Network - What Business Plan Network is the project on?		4	0.25
000/	Matrical		Notice What Durings and Disp Nationals in the granication 2	3	0.5
20%	Network		Network - What Business Plan Network is the project on?	2	0.75
			_	1	1
		500 N. J.		No	0
		5%	Network – Is the project on a LFAR-eligible facility?	Yes	1
	Ī	Γ0/	National Highway System – Is the project located on the National	No	0
		5%	Highway System?	Yes	1

#### PROJECT PRIORITIZATION

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Weight	Performance Measure	Individual Weight	Criteria Description	Definition Rating	Value Multiplier
10%			Project Impact/Benefit (Environmental) – Is the project located	No	0
	Environment _	5%	within any disadvantaged/EJ population areas? (We will assume ALL projects have a positive impact.)	Yes	Yes 1
		5%	Condition – Is the project located on a roadway segment prone to	No	0
		J70	flooding (will it assist with stormwater management)?	Yes	1
10%				AADT < 5,000	0
			Traffic Values - What is the daily traffic values (AADT) at the president	AADT = 5,000 to 10,000	0.25
	Traffic	10%	Traffic Volume – What is the daily traffic volume (AADT) at the project location?	AADT = 10,000 to 15,000	0.5
			location:	AADT = 15,000 to 20,000	0.75
				AADT > 20,000	1 0 1 0 0 0.25 0.5
100%		100%			

**Figure 64: Bridge Project Selection Criteria** 

Weight	Performance Measure	Individual Weight	Criteria Description	Definition Rating	Value Multiplier
20%	PM-1	20%	Safety – Network Screening – What is the excess safety value of the roadway or intersection? (PM-1)	<-0.1	0
				-0.1 - 0.1	0.25
				0.1 - 0.25	0.5
				>0.25	1
	PM-2		Condition – Is bridge good/fair/poor condition? (PM-2)	Good	0
20%		20%		Fair	0.5
				Poor	1
200/ DM 2	PM-3	20%	Performance/Operations – Is project located on a corridor that is deemed unreliable? (PM-3)	No	0
20%	PIVI-3	20%		Yes	1
20%		5%	Network - Percent trucks - What is the overall percentage of	0%-4%	0
				5%-9%	0.5
		3%	medium/heavy duty commercial trucks?	10% - 14%	0.75
				>15%	1
		F0/ N	Nationals What Dusiness Dlan Nationals in the president on 2	4	0 0.25 0.5 1 0 0.5 1 0 1 0
	Naturant			3	
	Network	5%	Network - What Business Plan Network is the project on? -	2	0.75
			% Network – Is the project on a BOF-eligible facility? –	1	1
		E0/		No	0
		5%		Yes	1
		E0/	National Highway System – Is the project located on the National	No	0
		5%	Highway System?	Yes	1

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#### PROJECT PRIORITIZATION

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Weight	Performance Measure	Individual Weight	Criteria Description	Definition Rating	Value Multiplier
10%			Project Impact/Benefit (Environmental) – Is the project located	No	0
	<b>Environment</b>	5%	within any disadvantaged/EJ population areas? (We will assume ALL projects have a positive impact.)	Yes	
		F0/	Condition – Is the project located on a bridge segment prone to	No	0
		5%	flooding (will it assist with stormwater management)?	Yes	0 1 0 1 0 0 0.25 0.5
10%				AADT < 5,000	1 0
			T (" ) /	AADT = 5,000 to 10,000	0.25
	Traffic	10%	Traffic Volume – What is the daily traffic volume (AADT) at the project location?	AADT = 10,000 to 15,000	0.5
			location:	AADT = 15,000 to 20,000	0 1 0 1 0 0 0.25 0.5
				AADT > 20,000	1
100%		100%			

Figure 65: Multimodal Project Selection Criteria

Weight	Performance Measure	Individual Weight	Criteria Description	Definition Rating	Value Multiplier
50%		25%	Multimodal Accessibility/Mobility – How many of the following are affected by the project?	None will be affected	0
				One will be affected	0.5
		2570	A) Bus B) Bicycle C) Pedestrian D) Rail E) Air F) Auto	Two will be affected	
	Accessibility		A) Dus D) Dicycle C) redestrian D) hall E) All F) Auto	Three+ will be affected	
			Multimodal Accessibility/Mobility - Recreational Access - Does	No	
		25%	the project provide access to or provide additional recreational or tourism opportunities?	Yes	1
50%		12.5%	Sustainability/Smart Growth - Is the project located in a Federal	No	0
		12,370	Opportunity Zone ("OZones")?	Yes	0 0.5 0.75 1 0
	Growth	12.5%	Multimodal Network Growth - Does the project extend or complete a	No	
	diowiii	12.3%	network/service area?	Yes	1
	ſ	250/	Multimodal Network Growth - Does the project improve safety?	No	0
		25%	(Such as Traffic Lights, Signs, Crosswalks, Alternative Route, etc.)	Yes	1
100%		100%			



# Public Engagement

#### **Overview**

 The MPO engaged the public as part of the LRTP update. This included two public surveys described below, and a public meeting held during the plan's 30-day public review and comment period.

#### **MPO Public Survey**

- As part of the LRTP update, the MPO released a public survey. The survey was open from November 20, 2023, to January 19, 2024, and received 410 responses.
- Survey promotion involved a multi-channel approach, leveraging social media, the MPO website, local press, and targeted email outreach to community leaders and stakeholders, as well as direct engagement with school districts (Figure 68). In addition, approximately 20 municipal offices and public libraries were visited in person and provided business cards with a QR code linking to the survey.

- The survey asked respondents to:
  - » List their top three transportation priorities (Figure 70).
  - » Rate potential strategies.
  - » Identify problem locations on a map and describe project-worthy issues (Figure 72).
- The map received a total of 666 pins (Figure 73). The top three improvement categories noted on the map were Roadway, Walking/Biking, and Public Transit.

#### **STC Public Survey**

- To supplement the public outreach results, the MPO evaluated the 2023 survey results collected during the update of the state's 12-Year Program. This prior survey effort was administered by the State Transportation Commission (STC).
- The statewide survey recorded more than 10,000 responses, with 47 from Cambria County.

- The survey asked respondents to:
  - Rate the mode of transportation they use most.
  - » Prioritize transportation concerns.
  - » Identify transportation issues on an interactive map.
  - » Propose allocation of a hypothetical transportation budget across project types.
  - » Provide basic demographic information.
- Summary results follow.
  - » Budget Allocation Each survey participant was instructed to allocate a hypothetical total of \$100 among six different categories: Maintenance, More Lanes / New Roads, Ride More / Drive Less, Bicycling / Walking, Technology, and Economic Support. The responses demonstrated a preference toward spending on maintenance, followed by technology (Figure 66).

- » Transportation Modes Individuals rated their transportation mode usage from never to every day for eight categories: Aviation, Bicycling, Carpool / Ride Share, Drive Alone, Motorcycle, Passenger Rail, and Public Transit.
- » Priorities Priority ratings were evaluated by allocating 20 points to across 10 categories. Top priorities selected were road pavement, bridges, walking, and Interstate highways.
- » Transportation Issues There were 33 issues mapped, including comments. Figure 67 lists the comment count by category of transportation.

Figure 66: Budget Allocation, STC Survey, 2023

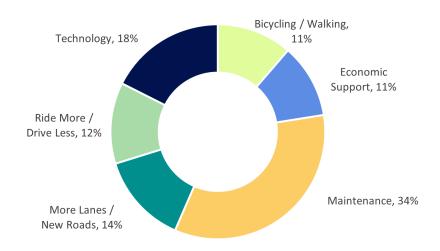


Figure 67: Mapped Categories Count, STC Survey, 2023

Category	Count	Percent
Bridge	3	9%
Pedestrian / Bike	4	12%
Roadway	22	67%
Transit	4	12%

Figure 68: MPO Public Survey Promotion Poster



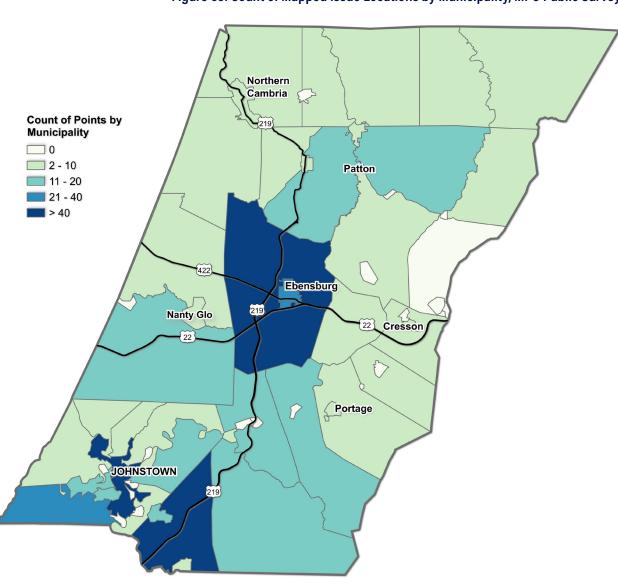


Figure 69: Count of Mapped Issue Locations by Municipality, MPO Public Survey

Figure 70: Transportation Priorities, MPO Public Survey

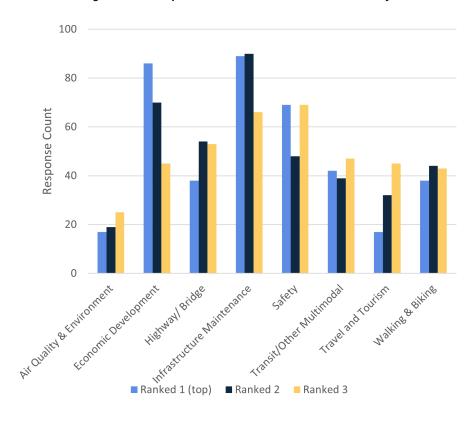


Figure 71: Age of Respondents, MPO Public Survey

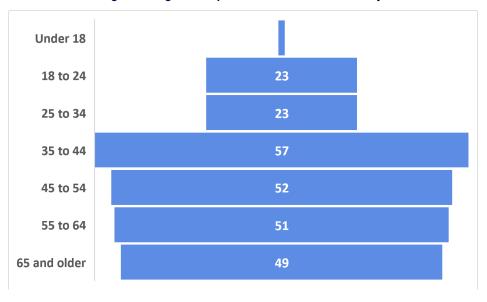


Figure 72: Map Marker Distribution, MPO Public Survey

Category	Count	Percent
Bridge	37	6%
Freight	37	6%
Intersection	103	15%
Public Transit	132	20%
Roadway	209	31%
Walking/Biking	148	22%

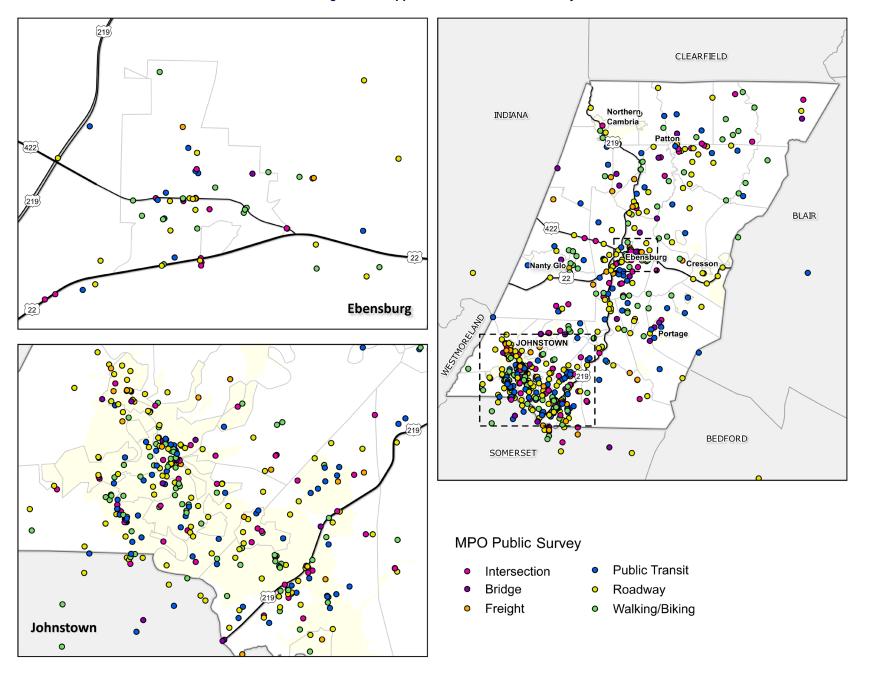


Figure 73: Mapped Issues, MPO Public Survey



# Strategic Directions

The MPO will implement the LRTP by means of the strategies listed in this section, which are organized according to the following topic areas:

- Safety
- Bicycle and Pedestrian
- Environmental
- Economic Development
- Highway/Bridge
- Public Transportation
- Travel and Tourism

The strategies complement and expand upon those already established in previous Cambria County plans.



#### SAFETY

Implementing safety initiatives across the county is the MPO's top priority. For the five-year period ending in 2022, the county registered an average of 1,065 crashes and nine fatalities per year. The total five-year average number of crashes and fatalities have both been decreasing. The MPO will continue to address safety issues while collaborating with PennDOT and other organizations with a role in transportation safety.

#### Plan for improved traffic incident management.

The County is taking steps to enhance the emergency response capabilities of those who respond to and clear incidents from the county's roadways. Additionally, efforts are underway to improve Intelligent Transportation Systems (ITS) infrastructure, which includes weather information systems and dynamic messaging signs. New data and tools have provided valuable insights into incident management by identifying the causes of non-recurring congestion. Common causes of congestion in Cambria County are weather, minor crashes, and other incidents. The US 22, US 219, and US 422 corridors experience the most non-recurring delays.

#### Identify priority roadway corridors and intersections for safety improvements.

The MPO will coordinate with PennDOT District 9-0 to minimize safety concerns on roadways. This includes evaluating candidate corridors for road safety audits to identify needed safety improvements.

#### Assist in updating the bike-ped plan, which was last updated in 2021.

The county's goal is to update its bicycle/pedestrian plan every two years to maintain goals and objectives for enhancing infrastructure and safety for active transportation.

#### **Incorporate Vulnerable Road User (VRU)** data into planning decisions and project listings.

The MPO uses VRU information to enhance safety by utilizing quantitative

- and qualitative data, community input, and land use context to identify specific improvement needs and strategies. The MPO will use VRU data to support decision-making.
- The MPO will pursue grants such as the SMART program to advance smart community technologies and systems for better transportation efficiency and safety. This includes integrating advanced aviation and autonomous vehicles as part of the changing landscape of transportation systems.



#### TRANSIT AND OTHER MULTIMODAL

Ensuring access and mobility through improved public transportation is crucial, and therefore the MPO remains committed to planning for countywide public transportation service. The pandemic significantly impacted the demand for public transportation services, and while the demand is recovering, it has yet to return to pre-pandemic levels. Johnstown, served by CamTran, stands out as the smallest city in Pennsylvania with both bus and rail service.

### Support and promote the Johnstown inclined plane service and repair.

The City of Johnstown features a unique mode of mountain transportation through its rail service, the inclined plane. The Johnstown inclined plane is the steepest vehicular inclined plane in the world, with a grade of 70.9 percent. The system is a vital attribute of the county, providing both residents and visitors with a unique way of traversing the mountainous terrain. Apart from serving as a unique mode of transportation, it is also a popular tourist attraction.

# Update the Local Coordinated Public Transit Human Service Transportation Plan (LCP).

 In 2017, the MPO adopted its latest LCP, which needs updating to provide a more precise picture of public transportation needs in the county. One key benefit of

- an updated plan would be to identify areas with a high percentage of senior citizens, which may warrant expanded transit service.
- The county's senior population is increasing, making access to medical care and other facilities increasingly important to Cambria County residents.

# Increase collaboration for shared-ride paratransit service across county lines.

 Medical facilities in Cambria County offer specialist services that may not be available in other counties. For Cambria County residents, coordinated transportation services could provide access to other healthcare hubs, such as Altoona.

# **Evaluate bus routes and services in support of post-pandemic travel patterns.**

 Cambria County lies within two major "laborsheds"—Altoona and Pittsburgh. Enhancing public transportation service has the potential to increase transit ridership and connect workers to jobs.

### Improve multimodal connectivity to the county's airports and transportation hubs.

The Johnstown-Cambria County Airport intends to apply for a multimodal grant to help fund construction of a new parking lot that will be linked to bike lanes and walking trails. The project aims to enhance the accessibility of airport services while connecting modes and promoting sustainable and eco-friendly practices.

### Meet ADA requirements for bus shelters and bus stops.

 Recent changes in the Americans with Disabilities Act (ADA) mandate new accessibility requirements for bus stops and shelters. The adoption of these requirements entails significant costs and will have a major impact on transit service. The MPO is supportive of CamTran efforts comply with the new regulations to ensure access to public transportation for people with disabilities.

# Remain actively engaged with PennDOT and Norfolk Southern to support efforts toward a second daily train on Amtrak's *Pennsylvanian* service.

 The expansion of passenger rail service on the *Pennsylvanian* route will provide essential mobility and economic benefits for Cambria County. The "second train" on the *Pennsylvanian* is anticipated to begin service in 2026; more travelers will be able to reach Johnstown, and Cambria County workers will be able to commute to Pittsburgh by rail.

### Maintain the viability of Johnstown's Amtrak station building.

- The Amtrak train station, which is owned by the Johnstown Area Heritage Association, is not only an historic resource, it also includes an event center. Its location near the city limits means it contributes to visitors' first impression of Johnstown.
- Ongoing efforts to improve the Amtrak station have resulted in a new roof, a re-use study, and a RAISE grant that will address maintenance issues.
- Amtrak's ridership from the Johnstown station was approximately 15,000 in 2022.

# Assist in the City's vision of renovating the Intermodal Transit Center and parking garage in downtown Johnstown.

The Transit Center Redesign project
was recently initiated with the goal of
modernizing the 40-year-old building
and planning for the future needs of the
community. The redesign will aim to
integrate the center into the community,
and serve as a catalyst for growth.

### Facilitate coordination between CamTran and Cambria Housing Authority.

- The Housing Authority manages approximately 1,500 public housing units, including 500 units in downtown Johnstown for elderly and disabled residents. Enhancing coordination between CamTran and Cambria Housing Authority can significantly improve community transit service, leading to more efficient transportation and greater access to destinations. By working together, these organizations can identify areas for improvement and implement strategies to maximize the effectiveness of transit services. This collaboration can benefit the community by providing more reliable and convenient transportation options that meet the needs of residents and visitors.
- This coordination is also in support of the provisions of BIL, which encourages and promotes surface transportation systems that will better connect housing and employment.



#### **ECONOMIC DEVELOPMENT**

Facilitating mobility and access is a vital aspect of enhancing economic competitiveness. The LRTP acknowledges the significance of transportation in connecting workers with jobs, both within and beyond the county. The MPO recognizes that the efficient movement of people and goods is fundamental to supporting a thriving economy. The LRTP underscores the importance of developing a comprehensive transportation system that is safe, sustainable, and reliable. By prioritizing the development of a robust transportation infrastructure, the LRTP aims to strengthen economic growth, promote regional connectivity, and enhance the county's economic competitiveness.

#### Support the county's airports as economic generators and providers of transportation.

- In September 2023, the Johnstown-Cambria County Airport reached a milestone of 10,000 enplanements for the 2023 calendar year, a threshold that had not been reached since 2006.
- The Johnstown airport is pursuing service expansion, which would have a significant impact on the surrounding areas. The airport seeks to attract a low-cost carrier in addition to its current service by Skywest Airlines. Additionally, the airport is pursuing funding for expanded parking capacity.

#### Ensure access to key industrial parks.

Business parks are key to the county's economy and the movement of goods.

The county has three major industrial areas: Ebensburg/Cambria Township, Johnstown, and Richland Township. These areas serve as hubs for manufacturing and employment. Industrial parks with excellent access to highways, rail, and airports, along with transit service for employees, can attract businesses, promote trade, and contribute to the county's economic competitiveness.

#### Conduct a goods movement study.

One of Cambria County's major challenges in terms of freight movement is a lack of direct access to the Interstate Highway System. Additionally, the topography of the county poses difficulties for heavy trucks. For example, many trucking companies avoid using PA 56

- due to the steep grades and winter maintenance concerns.
- Conducting and implementing a comprehensive Freight Study/Plan has the potential to significantly enhance access via rail and truck to businesses and industrial parks. Through a strategic assessment of existing transportation infrastructure, the study would identify opportunities for optimization and expansion, thereby facilitating improved connectivity and increased efficiency. The development of a plan would benefit businesses and industries seeking to expand their operations, as well as identify the needs of the county's shippers and freight carriers.

Assist municipalities with planning initiatives such as the creation or update of comprehensive plans and implementation of land use management techniques.

Proper land use management can help protect ongoing investments being made in transportation by promoting land development patterns that encourage the use of public transportation and bicycle/pedestrian modes of travel. It can also prevent haphazard growth, which helps maintain the functionality and longevity of the surrounding roadway network. There are 63 municipalities in Cambria County (32 boroughs, 30 townships, and one city), many of which

- do not maintain land use management tools and techniques. (Fewer than half (22) have a comprehensive plan, and only 21 administer a zoning ordinance.)
- The MPO will engage municipal governments to provide guidance on local land use planning, strategic placement and development of economic centers, and transportation infrastructure design. This partnership will aim to facilitate the creation of a comprehensive and integrated transportation system that aligns with the economic development goals of the county. By working together, the MPO and municipal governments can ensure that Cambria County's transportation system is designed to meet the needs of its residents and businesses, while also promoting sustainable growth and development.
- In September 2023, the City of Johnstown was awarded \$150,000 through the Municipal Assistance Program (MAP) to develop a comprehensive plan that will ensure the city continues to make positive strides toward economic growth. This comes after the city's recent graduation from the Act 47 program for financially distressed municipalities. The plan will be developed in collaboration with a consultant, based on input from residents, visitors, and business owners.
- The city's previous comprehensive plan was adopted about 25 years ago.

Figure 74: Land Use Management in Cambria County: **Existing Plans and Commissions** 

Planning Tool	Number (Percentage) of Municipalities Using Tool
Comprehensive Plan	22 (35%)
Zoning Ordinance	21 (33%)
Planning Commission	22 (35%)

**Encourage ongoing initiatives by the Cambria County Emergency Management** Agency and other partners to enter the **Unmanned Aerial Vehicle (UAV) industry.** 

- The Johnstown-Cambria County Airport is prepared to take steps toward initiating the use of drones. Allowing drones to operate in the area will be beneficial for delivering emergency medical supplies, creating detailed maps, and assisting in emergency planning. The Cambria **County Emergency Management** Agency is spearheading this effort and will need partners and the approval of the Federal Aviation Administration (FAA). Throughout this process, the support of the MPO is key.
- Indiana University of Pennsylvania has been running the sole unmanned aircraft training center in the state for several years. Students will benefit from development of a test site at the Johnstown airport.



#### **HIGHWAY & BRIDGE**

Cambria County has approximately 1,770 miles of roadway, 333 state-owned bridges, and 87 locally owned bridges. Maintaining the county's transportation assets is fundamental to ensuring their optimal performance, longevity, and cost-effectiveness. PennDOT and the MPO follow Lowest Life-Cycle Cost asset management principles for project and investment decision-making, as required by FHWA. For decades the Cambria County Planning Commission has had very similar priorities for highway improvements in the county. As noted previously in this LRTP, funding for improvements and especially for new construction is very limited. The Commission is quite aware of these limitations and developed its priorities accordingly. With these realities in mind, maximizing the benefits of existing major highway corridors is the essence of this plan.

#### **Upgrade PA 56 from Armagh to Cessna**

For many years Cambria County transportation planners have considered PA Route 56 into and out of the Johnstown Metropolitan Area to be the most important priority for economic development in the county. The vast majority of population and of commercial/industrial activity is located in the southern third of the county and is served by PA 56. Highway access east and west of Johnstown is outdated and needs to be upgraded to support these realities. While being fully aware of funding constraints, the Commission proposes that PA 56 from Armagh in Indiana

- County to Cessna in Bedford County be upgraded, in appropriate locations, to a modern two-lane roadway with adequate shoulders, turning lanes, passing lanes, and climbing lanes. This section passes through three different PennDOT Districts and five different counties. Support from all these entities will need to be solicited. This would be similar to the support Cambria County gave to other districts and counties for the total remake of US 22 from Mundy Corner to Monroeville in Allegheny County.
- A segment of PA 56 should be treated with some urgency. The roadway in the west end of the City of Johnstown

passes through residential neighborhoods and creates unsafe conditions. It is the primary route for heavy truck traffic to enter and leave the southern portion of the county. A rerouted roadway from Broad Street to the city line should be studied. Because this road is the major gateway to the Johnstown Metropolitan Area and has been designated as part of the National Highway System, timely action should be considered.

### Pursue Interstate designation for the US 219 corridor.

- US 219 from US 22 near Ebensburg to Interstate 68 in Maryland traverses most of the spine of Cambria County and also that of Somerset County. It was built or will be built to Interstate standards and its benefits for economic development and tourism should be maximized. Further funding for new construction would not be necessary.
- As stated earlier in this plan, Cambria County is one of 19 counties in Pennsylvania that is not directly served by the national Interstate Highway System. It is by far the most populous county in the state with this distinction.
- Advocating for Interstate status north of US 22 is not recommended. Funding for new construction on US 219 is not available and will not become available in the foreseeable future. It is believed that designation of US 219 south of

- US 22 is fiscally reasonable because such designation would not require new highway construction financing. Further, Interstate highways are intended to connect major four-lane highways such as US 22 and Interstate 68; the roadways north of US 22 do not meet this criteria.
- For designation as a part of the Interstate Highway System, 23 U.S.C. 103(c)(4)(A) requires that a highway meet all the standards of a highway on the Interstate System, be a logical addition or connection to the Interstate System, and have the affirmative recommendation of the State. Support for this designation should be achieveable.

### Continue ongoing emphasis on asset management.

with PennDOT to fund and plan for regular bridge maintenance activities. Smaller investments in timely maintenance can delay or eliminate the need for costly rehabilitation or replacement projects. The ultimate aim of asset management practices is to extend the useful life of an asset and reduce total life-cycle costs.

#### Prioritize bridges for repair and upkeep.

 In the past, Off-System Bridge (BOF) funds were used to prioritize local bridges. However, with the 2021 passage of BIL, there is access to a greater pool of BOF funds (\$8.5 million within the 2025 TIP).

### Assist municipalities in maintaining local bridges.

Many local governments, especially those in remote areas, struggle to meet the required funding match for state and federal grants and programs. Maintaining and, where necessary, rehabilitating or replacing "Poor"-rated bridges is essential to public safety and mobility. The MPO aims to inform municipal officials on funding and finance options to complete needed bridge improvement projects. For example, municipalities can use funding sources from Act 89 for transportation, such as the \$5 local use fee or retro reimbursement program, to finance local bridge improvements.<sup>2</sup>

<sup>&</sup>lt;sup>2</sup> The Commissioners repealed the \$5 local use fee in December 2023. It is uncertain whether will be reinstated under the new administration.



#### **TRAVEL & TOURISM**

The FAST Act, passed in 2015, introduced new federal planning factors to long-term transportation planning, including travel and tourism. Cambria County encompasses two national park sites and roughly 185 miles of trails. Outdoor recreation has become a major draw for tourists in the county. There are numerous trails available for activities such as walking, hiking, biking, and river/water trails, which attract visitors from both within and beyond Pennsylvania. Johnstown's Incline—the steepest vehicular inclined plane in the world—is also a tourist draw. Tourism is expected to remain a major contributor to the region's economy, particularly as interest in outdoor recreation continues to be strong, during and after the COVID-19 pandemic.

#### Support the installation of electricvehicle charging stations near tourism destinations.

There is expected to be an increasing demand for EV charging facilities at popular tourism destinations. The MPO will support the installation of charging stations at destinations with high levels of tourist traffic, including at trailheads.

#### Address parking at major tourist and recreational destinations.

Due to the influx of trail users, parking is deficient, especially for users who may be pulling a trailer. Improving parking will encourage the use of multiple ATV, river, and biking trails.

#### Support the Cambria County **Conservation & Recreation Authority to** complete major trail extensions.

- The county's trail network is integral to its transportation network, as well as recreation and tourism promotion. A 2021 addition to the county's trail network extended the Johnstown Greenway Trail to reach the Path of the Flood Trail. Other planned additions to the trail network include the 9/11 National Memorial Trail and the Ghost Town Trail.
- According to the Rails to Trails Conservancy, the Ghost Town Trail will become the first continuous loop railtrail in the nation upon completion of the seven-mile extension that is underway.

The new stretch will connect to the developed Ghost Town Trail in Cambria County near the US 219 overpass. The existing Ghost Town Trail is approximately 49 miles long. In 2009, it had approximately 80,000 users. Present-day estimates (post-COVID-19) place that figure at more than 160,000 users per year.

Work with Visit Johnstown to support the transportation needs of Cambria County's two national park sites: the Johnstown Flood National Memorial and the Portage site.

- Cambria County is home to two national park sites (out of the 21 total in Pennsylvania). This unique feature of the county presents an opportunity to attract tourists and visitors. The Flight 93 National Memorial lies just beyond the county in Somerset. The geographical proximity of these three sites offers opportunities for collaboration and joint marketing.
- Prince Gallitzin State Park is a popular destination for nature lovers and outdoor enthusiasts. The park surrounds Glendale Lake, which is a prime spot for boating and fishing. Visitors can

- also enjoy activities such as hiking, biking, and snowmobiling on the park's 33 miles of trails. In 2019, the park welcomed 2,033,886 visitors, making it the third-most-visited state park in Pennsylvania.
- The MPO will collaborate with major tourism destinations in the county to identify any transportation barriers that may hinder tourism.
- Involving tourism agencies, such as Visit Johnstown, in the planning process can help identify transportation infrastructure and service needs on major tourist routes. Investing in improvements that make it safer and more convenient for visitors to spend time and money in Johnstown leverages public- and private-sector investments in tourism and bolsters the economy.



### **ACTIVE TRANSPORTATION (BIKE-PED)**

Interest in outdoor recreation and trail activities has boomed since the COVID-19 pandemic. Resident and visitor use has exploded on the many diverse trails throughout Cambria County. In addition to off-road recreational bicycle and pedestrian use, the MPO aims to encourage and enable safer active transportation opportunities throughout the county.

#### Increase outdoor recreation route signage/wayfinding/mapping to improve safety and increase use.

Rural trail development in Cambria County has been expanding outdoor recreation options for residents and visitors for the past eight years. The Ghost Town Trail, The Path of the Flood Trail, Mountainside Bike Trails, and Rock Run Recreation Area for ATVs are just a few examples of the assets and trails that have been or are being developed. Better signage can increase awareness and usage of these facilities by both the local community and tourists.

#### Support municipalities with downtown **Complete Streets evaluations to improve** safety and connectivity.

Complete Streets audits of municipal Main Street/downtown areas identify the specific infrastructure needs of the community to accommodate all appropriate modes and types of users. By

enhancing accessibility and safety for bicycles and pedestrians in the commercial centers of municipalities, routine activities can be made more convenient and safer, with the added health benefit of active transportation. Encouraging people to get out of their cars yields a more vibrant and active community.

#### Collaborate with local governments to enhance and establish bicycle lanes.

Protected bicycle lanes promote the safety and use of bicycles. Creating improved exclusive lanes in strategic areas can also increase access to outdoor recreation trails.

#### Continue to update and coordinate with other entities on plan implementation and active transportation initiatives.

Cambria County adopted its current Bicycle and Pedestrian Plan in April 2021. Additionally, the county developed maps highlighting trail assets, conditions, and development progress. The

MPO will continue to monitor the plan's implementation and renew information reflecting the progress made.

#### Improve bicycle and pedestrian safety.

 Five-year averages indicate that bicycle and pedestrian crashes have been decreasing in Cambria County. The MPO will continue to improve conditions for non-motorized users by working with PennDOT to implement key recommendations from the county's Bicycle and Pedestrian Plan and other low-cost opportunities to improve non-motorized safety and connectivity. The MPO will ensure that safety for non-motorized transportation users is incorporated into programmed projects, where feasible.

# Support local governments in obtaining funding for the maintenance of trails and facilities for active transportation.

 Maintenance on trails and active transportation facilities come at a large cost but are important to the function and safety of the facility. The MPO will work with PennDOT to support this endeavor.



#### **ENVIRONMENT**

The region's environmental resources are crucial to its quality of life and overall functioning. As part of its mission, the MPO works to reduce the negative environmental impacts of transportation projects and activities. The MPO collaborates with PennDOT and other agencies throughout the project planning process to identify and address potential harmful impacts.

#### Support CamTran in the shift to alternative fuels.

The utilization of vehicles operating on alternative fuels can significantly benefit the environment. Currently, CamTran has 72 vehicles in its fleet, including one hybrid/electric and 41 compressed natural gas (CNG) vehicles. CamTran operates a CNG station in Ebensburg that could serve as a valuable resource for further adoption of CNG.<sup>3</sup> In support of CamTran's shift to alternative fuels, the MPO will support infrastructure projects that complement the implementation of these fuels.

#### Shift toward clean energy electric vehicle (EV) charging stations.

Installing EV charging stations in Cambria County is important, even though the county does not have any Interstates or designated Alternative Fuels Corridors (AFC). The number of

EV registrations in the county is increasing, and visitors from surrounding counties and states may also require EV charging stations.

#### Improve best practices to reduce environmental impact.

Develop a collaborative relationship with environmental resource agencies to integrate best management practices for environmental sustainability into transportation planning and project development.

#### Support environmental sustainability within the aviation sector.

As the aviation industry continues to expand in the county, particularly at the Johnstown-Cambria County Airport, it becomes increasingly important to adopt environmentally sustainable practices. This can be achieved by focusing on reducing emissions, promoting the

<sup>&</sup>lt;sup>3</sup> The CNG station was among the first in the state constructed for public use and funded by PennDOT.

use of eco-friendly technologies, and mitigating the environmental impact of aviation activities. One approach to reducing the net carbon footprint of aviation activities is to install EV charging stations for vehicles and aircraft. The Johnstown airport has already applied for funding and has plans in progress to move forward with this initiative.

# Install EV solar-powered EV charging stations near trailheads and other strategic locations.

 Availability of this nascent technology encourages the use of environmentally sustainable transportation and helps reduce carbon emissions.

# Evaluate the potential benefits of relocating and repurposing historic bridges and structures instead of demolishing them.

 Aligning with PennDOT's vision for mitigating harm to historical structures, specifically bridges, is a priority for the MPO. Historically meaningful bridges that cannot be rehabilitated to meet present-day safety requirements and traffic needs can sometimes be relocated and repurposed for non-motorized use.

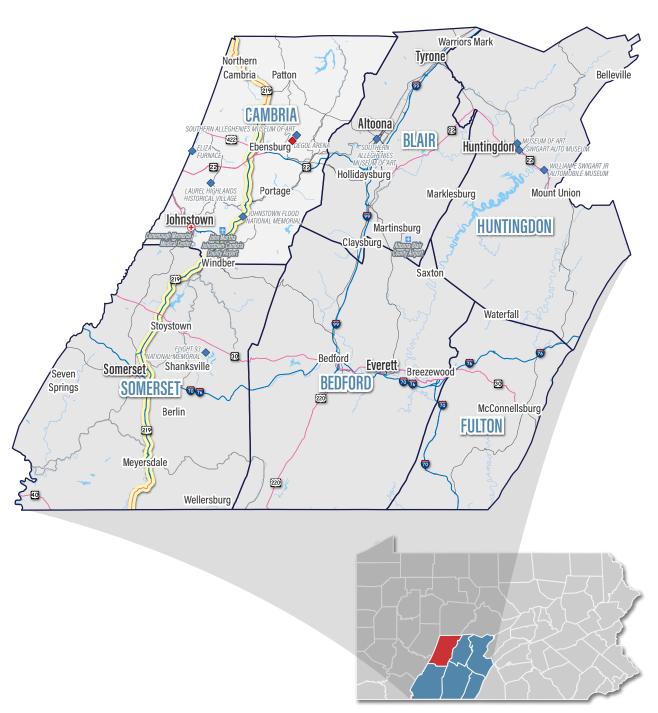
# Assess potential harms to vulnerable species and implement prevention and mitigation strategies.

The county has numerous preserved recreational spaces that also provide unique habitats for vulnerable species. The MPO will work with PennDOT and other invested parties to select mitigation strategies that are congruent with the county's distinct environmental attributes.



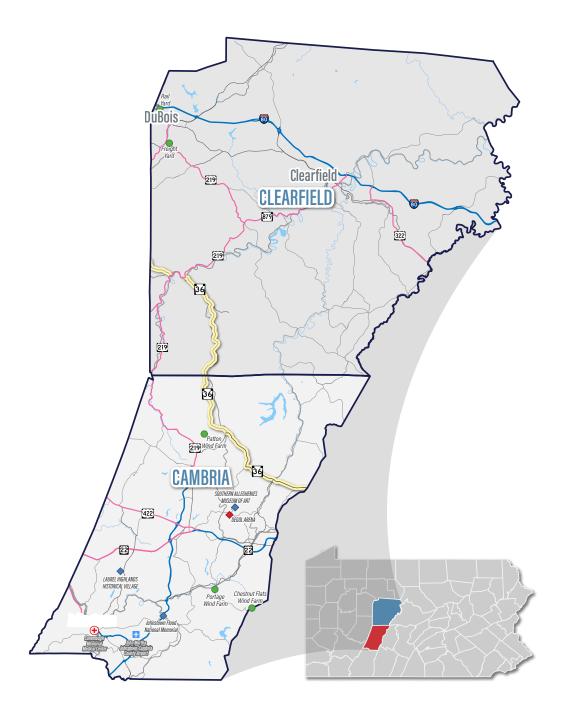
## Beyond the Borders

Cambria County is situated adjacent to two Metropolitan Planning Organization (MPO) regions and two Rural Planning Organization (RPO) regions, namely, Southern Alleghenies, Altoona/Blair County, North Central/Clearfield County, and the Southwestern Pennsylvania Commission (SPC)/Indiana and Westmoreland counties. Given that transportation is not constrained by political boundaries, this section of the LRTP identifies and discusses the major transportation issues that Cambria County shares with its neighbors. Additionally, this section provides an analysis of potential opportunities for collaborative efforts aimed at addressing mutual transportation concerns.



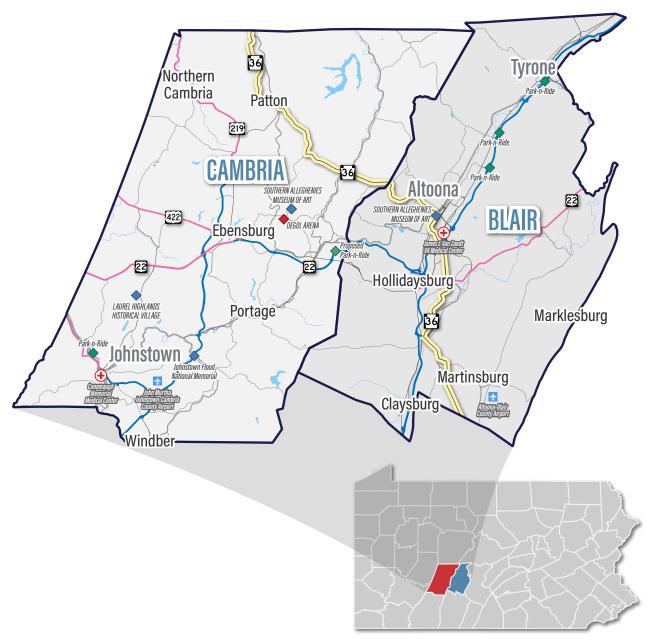
#### **Southern Alleghenies**

- US 219 plays a significant role in promoting workforce and tourism access between Cambria and Somerset counties. The mutual inflow and outflow of workers between these two planning regions highlights the importance of this route in facilitating the movement of people and goods.
- The Southern Alleghenies RPO region does not have ample medical facilities; many residents travel to other counties such as Cambria. There are opportunities to collaborate on transit connections between Cambria and Somerset counties.
- As Cambria and Pittsburgh have the only Level 1 trauma centers in the region, Cambria's central location provides advantages for bordering counties. Due in part to proximity, older residents of Somerset County access medical facilities available in Johnstown.
- Johnstown is home to many of Cambria County's tourism assets. The proximity of both developed commercial areas and tourist sites presents an opportunity for promoting tourism across county lines, for the mutual benefit of Cambria County and its neighboring counties.



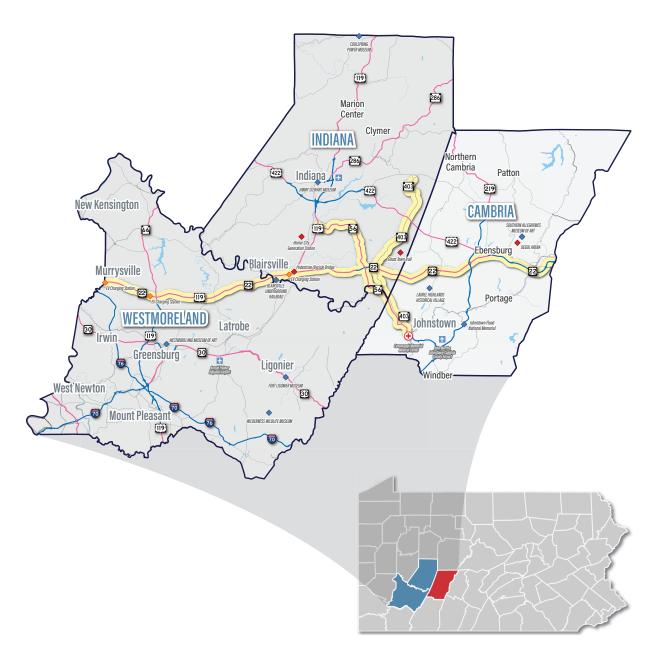
#### **North Central/Clearfield County**

- The demand for travel between Cambria County and Clearfield County is the lowest among all of Cambria County's neighboring regions. The designation of US 220 as Interstate 99 in neighboring Blair County has lessened the demand for a modern, north-south highway north of Ebensburg. Northern Cambria is a farming community with a significant Amish population, and it is important to maintain the established roadway routes.
- Clearfield County planners cited a potential need for public transportation service for those accessing medical and Veterans Administration services in Altoona.
- Windmills are transported from the freight yard in DuBois to a wind farm in Patton. These windmills reach the Falls Creek railyard via rail or truck. The various components of the windmills are transported along PA 36 to the staging area for the mills. Transportation of large windmill parts poses safety risks to both the cargo and other road users. It may also strain rural road infrastructure not designed for heavy or oversized loads.



#### **Altoona/Blair County**

- Strong commuter flows exist between Cambria and Blair counties, making US 22 an important roadway for longterm planning and collaboration.
- Planning coordination is also needed between the two MPO regions concerning the trails they share, most notably the 9/11 Memorial Trail.
- Good transit connections are needed between CamTran's rural transit routes and those of neighboring counties.
   Many residents, especially the elderly, need access to medical facilities in Blair County.
- Individuals in Northern Cambria use PA 36 primarily to access retail destinations in Blair County. As the main route connecting the two counties, PA 36 is a focus of inter-county planning collaboration.
- A park-and-ride facility near Cresson or the Gallitzin interchange would be a convenient option for commuters traveling outside the county, and would reduce traffic and associated emissions.



#### **SPC - Indiana and Westmoreland Counties**

- Plan updates related to active transportation and freight are an opportunity to collaborate with adjacent counties on related cross-border initiatives.
- Asset management treatments on major roads could be a coordinated effort between Cambria County and SPC, such as pavement maintenance on US 22.
- During planning it is important to consider trail connections in neighboring counties, such as the Ghost Town Trail that traverses both Cambria and Indiana counties. A few miles west of the Cambria County border, there is a bicycle and pedestrian bridge where US 22 interchanges with US 119. This bridge is significant to Cambria County cyclists because it provides a major route to cross US 22.
- In July 2023, Pennsylvania's largest active coal-fired power plant, the Homer City Generating Station, was permanently closed. Its shutdown will impact the surrounding areas, including Cambria County, by reducing demand for the transportation of coal. The main roads leading to the plant, PA 403 and PA 56, will likely experience a reduction in traffic until the site is repurposed.
- In conjunction with SPC, Cambria anticipates the integration of EV charging stations on major roads, including US 22, extending beyond the current statewide Interstate initiatives.

# Appendix A: 12-Year Program Projects

S.R.	Section	MPMS#	Project Title	Phase	Area	2025-2036 12-Year Program Amount
0		94756	Local Br Line Item	С	BRDG	\$1,000,000
0		94756	Local Br Line Item	С	BRDG	4,065,000
0		117025	Bridge PM Reserve Line Item	С	BRDG	1,000,000
0		117025	Bridge PM Reserve Line Item	С	BRDG	4,876,060
0		118410	2025 RPM Installation Cambria County	С	HRST	100,000
0		119315	Johnstown CRP Line Item	С	HRST	803,000
0		119315	Johnstown CRP Line Item	С	HRST	1,099,000
0		119315	Johnstown CRP Line Item	С	BRDG	2,365,000
0		119315	Johnstown CRP Line Item	С	BRDG	2,073,000
0		119505	Cambria County Environmental Monitoring	Р	HRST	100,000
0		120442	Cambria Epoxy Overlay Contract	Р	BRDG	100,000
0		120442	Cambria Epoxy Overlay Contract	С	BRDG	6,000,000
0		120734	2026 RPM Installation Cambria County	С	HRST	100,000
0	BHR	22437	Bridge & Highway Reserve	С	HRST	14,070,636
0	BHR	22437	Bridge & Highway Reserve	С	BRDG	1,000,000
0	BHR	22437	Bridge & Highway Reserve	С	HRST	1,000,000
0	BHR	22437	Bridge & Highway Reserve	С	HRST	4,431,000
0	BHR	22437	Bridge & Highway Reserve	С	HRST	9,172,000
0	BHR	22437	Bridge & Highway Reserve	С	BRDG	1,000,000

S.R.	Section	MPMS#	Project Title	Phase	Area	2025-2036 12-Year Program Amount
0	PCS	115615	Johnstown Urban Ind. Park Cnnctr St	F	HCON	67,111
0	PCS	115615	Johnstown Urban Ind. Park Cnnctr St	С	HCON	1,229,386
0	WMT	118336	Westmont Streetscape	+C	TENH	700,000
22	0	116931	US 22 - PA 271 to SR 4031	Р	HRST	1,000,000
22	0	116931	US 22 - PA 271 to SR 4031	F	HRST	700,000
22	0	116931	US 22 - PA 271 to SR 4031	+C	HRST	2,695,000
22	0	116931	US 22 - PA 271 to SR 4031	+C	HRST	8,959,300
22	0	120300	US 22 - Indiana Co Line to Mundy's Corner Int.	P	HRST	1,000,000
22	0	120300	US 22 - Indiana Co Line to Mundy's Corner Int.	F	HRST	700,000
22	0	120300	US 22 - Indiana Co Line to Mundy's Corner Int.	С	HRST	12,618,000
22	0	120436	US 22 over SR 8004	P	BRDG	100,000
22	0	120436	US 22 over SR 8004	U	BRDG	100,000
22	0	120436	US 22 over SR 8004	R	BRDG	100,000
22	0	120436	US 22 over SR 8004	С	BRDG	2,271,000
22	0	120437	US 22 over PA 160	P	BRDG	100,000
22	0	120437	US 22 over PA 160	U	BRDG	100,000
22	0	120437	US 22 over PA 160	R	BRDG	100,000
22	0	120437	US 22 over PA 160	С	BRDG	2,500,000
22	030	113997	US 22 - PA 164 to Blair Cnty Line	С	HRST	3,365,314
22	030	113997	US 22 - PA 164 to Blair Cnty Line	С	HRST	9,818,686
22	035	110424	US 22 - SR 4031 to PA 164	P	HRST	1,586,000
22	035	110424	US 22 - SR 4031 to PA 164	F	HRST	750,000
22	035	110424	US 22 - SR 4031 to PA 164	С	HRST	13,731,207
22	32B	117007	US 22 Segment 351 Over Norfolk Southern Railroad	+C	BRDG	1,100,000
22	33B	117008	US 22 Segment 350 Over Norfolk Southern Railroad	+C	BRDG	1,100,000
36	0	120339	PA 36 - Blair County to SR 1010	Р	HRST	150,000
36	0	120339	PA 36 - Blair County to SR 1010	С	HRST	5,500,000
53	0	120336	PA 53 - PA 164 to Cresson-Portage Int	P	HRST	200,000
53	0	120336	PA 53 - PA 164 to Cresson-Portage Int	+C	HRST	4,782,000

53         0         120337         PA 53 - PA 36 to SR 1026           53         0         120340         PA 53 - SR 1026 to Clearfield Co Line           53         0         120340         PA 53 - SR 1026 to Clearfield Co Line           53         0         120340         PA 53 - SR 1026 to Clearfield Co Line           53         037         107229         PA 53 - SR 3024 to PA 164           53         037         107229         PA 53 - SR 3024 to PA 164           53         25B         88597         Brubaker Run Bridge           53         29B         22622         PA 53 Pattys Run Bridge           53         30B         98750         Bradley Run Bridge           53	P +C P C +C +C F U R C P	HRST HRST HRST HRST HRST HRST BRDG BRDG BRDG BRDG BRDG BRDG	200,000 5,000,000 200,000 3,500,000 2,428,314 893,470 350,000 75,000 75,000 1,966,000
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53       037       107229       PA 53 - SR 3024 to PA 164         53       25B       88597       Brubaker Run Bridge         53       29B       22622       PA 53 Pattys Run Bridge         53       30B       98750       Bradley Run Bridge         53       30B       98750       Bradley Run Bridge	+C F U R C	HRST BRDG BRDG BRDG BRDG	893,470 350,000 75,000 75,000
53       25B       88597       Brubaker Run Bridge         53       29B       22622       PA 53 Pattys Run Bridge         53       30B       98750       Bradley Run Bridge         53       30B       98750       Bradley Run Bridge	F U R C P	BRDG BRDG BRDG BRDG	350,000 75,000 75,000
53         25B         88597         Brubaker Run Bridge           53         25B         88597         Brubaker Run Bridge           53         25B         88597         Brubaker Run Bridge           53         29B         22622         PA 53 Pattys Run Bridge           53         30B         98750         Bradley Run Bridge           53         30B         98750         Bradley Run Bridge	U R C P	BRDG BRDG BRDG	75,000 75,000
53         25B         88597         Brubaker Run Bridge           53         25B         88597         Brubaker Run Bridge           53         29B         22622         PA 53 Pattys Run Bridge           53         30B         98750         Bradley Run Bridge           53         30B         98750         Bradley Run Bridge	R C P	BRDG BRDG	75,000
53       25B       88597       Brubaker Run Bridge         53       29B       22622       PA 53 Pattys Run Bridge         53       30B       98750       Bradley Run Bridge         53       30B       98750       Bradley Run Bridge	C P	BRDG	· · · · · · · · · · · · · · · · · · ·
53       29B       22622       PA 53 Pattys Run Bridge         53       30B       98750       Bradley Run Bridge         53       30B       98750       Bradley Run Bridge	Р		1,966,000
53       29B       22622       PA 53 Pattys Run Bridge         53       30B       98750       Bradley Run Bridge         53       30B       98750       Bradley Run Bridge		BRDG	
53       29B       22622       PA 53 Pattys Run Bridge         53       29B       22622       PA 53 Pattys Run Bridge         53       29B       22622       PA 53 Pattys Run Bridge         53       30B       98750       Bradley Run Bridge         53       30B       98750       Bradley Run Bridge	_		400,000
53       29B       22622       PA 53 Pattys Run Bridge         53       29B       22622       PA 53 Pattys Run Bridge         53       30B       98750       Bradley Run Bridge         53       30B       98750       Bradley Run Bridge	F	BRDG	225,000
53       29B       22622       PA 53 Pattys Run Bridge         53       30B       98750       Bradley Run Bridge         53       30B       98750       Bradley Run Bridge	U	BRDG	25,000
53         30B         98750         Bradley Run Bridge           53         30B         98750         Bradley Run Bridge	R	BRDG	25,000
53 30B 98750 Bradley Run Bridge	+C	BRDG	1,325,000
, ,	P	BRDG	400,000
53 30B 98750 <b>Bradley Run Bridge</b>	F	BRDG	225,000
	U	BRDG	25,000
53 30B 98750 <b>Bradley Run Bridge</b>	R	BRDG	25,000
53 30B 98750 <b>Bradley Run Bridge</b>	C	BRDG	1,329,528
53 31B 98753 <b>PA 53 Lost Creek Bridge</b>	P	BRDG	400,000
53 31B 98753 <b>PA 53 Lost Creek Bridge</b>	F	BRDG	225,000
53 31B 98753 <b>PA 53 Lost Creek Bridge</b>	U	BRDG	25,000
53 31B 98753 <b>PA 53 Lost Creek Bridge</b>	R	BRDG	25,000
53 31B 98753 <b>PA 53 Lost Creek Bridge</b>	+C	BRDG	2,000,000
56 0 120433 <b>PA 56 over Paint Creek</b>	Р	BRDG	100,000
56 0 120433 <b>PA 56 over Paint Creek</b>	U	BRDG	100,000
56 0 120433 <b>PA 56 over Paint Creek</b>	R	BRDG	100,000
56 0 120433 <b>PA 56 over Paint Creek</b>	+C	BRDG	850,000

S.R.	Section	MPMS#	Project Title	Phase	Area	2025-2036 12-Year Program Amount
56	040	117119	PA 56 - PA 403 to 2nd Avenue	С	HRST	1,827,603
160	019	119242	PA 160 Slide North of Wilmore	+C	HRST	2,575,000
160	11B	92692	PA160 Laurel Run Brdg #3	U	BRDG	100,000
160	11B	92692	PA160 Laurel Run Brdg #3	R	BRDG	75,000
160	11B	92692	PA160 Laurel Run Brdg #3	С	BRDG	467,000
160	15B	114040	Sidman PA160 Super Repl 1	С	BRDG	1,800,000
160	16B	114041	Sidman PA160 Super Repl 2	+C	BRDG	2,600,000
160	18B	88696	PA160 Conemaugh Rvr Culv	F	BRDG	652,500
160	18B	88696	PA160 Conemaugh Rvr Culv	U	BRDG	150,000
160	18B	88696	PA160 Conemaugh Rvr Culv	R	BRDG	150,000
160	18B	88696	PA160 Conemaugh Rvr Culv	С	BRDG	1,227,500
219	0	117016	US 219 Abandoned Railroad Tunnel Closure	Р	HRST	100,000
219	0	117016	US 219 Abandoned Railroad Tunnel Closure	U	HRST	25,000
219	0	117016	US 219 Abandoned Railroad Tunnel Closure	R	HRST	25,000
219	0	117016	US 219 Abandoned Railroad Tunnel Closure	+C	HRST	929,750
219	0	120334	SR 219 - US 422 Int to Carrolltown Int	Р	HRST	1,250,000
219	0	120334	SR 219 - US 422 Int to Carrolltown Int	F	HRST	800,000
219	0	120334	SR 219 - US 422 Int to Carrolltown Int	+C	HRST	12,466,700
219	000	110437	US 219 - PA 53 to US 422	Р	HRST	2,492,171
219	000	110437	US 219 - PA 53 to US 422	F	HRST	1,000,000
219	000	110437	US 219 - PA 53 to US 422	+C	HRST	8,025,400
219	000	110437	US 219 - PA 53 to US 422	+C	HRST	13,455,000
219	049	96489	Moss Crk Rd-Indiana Co Line	U	HRST	25,000
219	049	96489	Moss Crk Rd-Indiana Co Line	С	HRST	2,435,895
219	050	116926	US 219 - PA 56 to PA 53	+C	HRST	8,745,000
219	050	116926	US 219 - PA 56 to PA 53	+C	HRST	4,520,850
219	51B	117761	US 219 Bridge Preservations	+C	BRDG	1,684,000
271	0	119278	PA 271 Menoher Boulevard Rockfall Mesh	U	HRST	50,000
271	0	119278	PA 271 Menoher Boulevard Rockfall Mesh	R	HRST	100,000

S.R.	Section	MPMS#	Project Title	Phase	Area	2025-2036 12-Year Program Amount
271	0	119278	PA 271 Menoher Boulevard Rockfall Mesh	С	HRST	360,500
271	0	120343	SR 271 - SR 3037 to Mundy's Corner Int	P	HRST	250,000
271	0	120343	SR 271 - SR 3037 to Mundy's Corner Int	С	HRST	4,000,000
271	0	120432	PA 271 over Little Conemaugh River	P	BRDG	320,000
271	0	120432	PA 271 over Little Conemaugh River	F	BRDG	230,000
271	0	120432	PA 271 over Little Conemaugh River	U	BRDG	25,000
271	0	120432	PA 271 over Little Conemaugh River	R	BRDG	25,000
271	0	120432	PA 271 over Little Conemaugh River	С	BRDG	1,207,000
271	0	120435	SR 271 over Little Conemaugh River	Р	BRDG	100,000
271	0	120435	SR 271 over Little Conemaugh River	U	BRDG	100,000
271	0	120435	SR 271 over Little Conemaugh River	R	BRDG	100,000
271	0	120435	SR 271 over Little Conemaugh River	С	BRDG	800,000
271	0	121384	SR 271 Clinton Street Crossing	С	SAMI	500,000
271	23B	91675	PA271 Susquehanna Rvr Br	U	BRDG	75,000
271	23B	91675	PA271 Susquehanna Rvr Br	R	BRDG	75,000
271	23B	91675	PA271 Susquehanna Rvr Br	+C	BRDG	1,500,000
271	24B	94468	PA 271 Elk Creek Bridge	U	BRDG	75,000
271	24B	94468	PA 271 Elk Creek Bridge	R	BRDG	75,000
271	24B	94468	PA 271 Elk Creek Bridge	+C	BRDG	750,000
271	25B	94469	PA 271 Browns Run Bridge	U	BRDG	75,000
271	25B	94469	PA 271 Browns Run Bridge	R	BRDG	75,000
271	25B	94469	PA 271 Browns Run Bridge	+C	BRDG	492,000
271	26B	117012	PA 271 Over North Branch Blacklick Creek	U	BRDG	75,000
271	26B	117012	PA 271 Over North Branch Blacklick Creek	R	BRDG	75,000
271	26B	117012	PA 271 Over North Branch Blacklick Creek	+C	BRDG	500,000
403	0	120434	PA 403 over Laurel Run	Р	BRDG	100,000
403	0	120434	PA 403 over Laurel Run	U	BRDG	100,000
403	0	120434	PA 403 over Laurel Run	R	BRDG	100,000
403	0	120434	PA 403 over Laurel Run	+C	BRDG	765,000

756   010   110119   PA 756 - Lamberd Ave to Alvin St   C   HRST   2,146     756   011   110118   PA 756 - PA 160 to Industrial Park Rd   F   HRST   300,0     756   011   110118   PA 756 - PA 160 to Industrial Park Rd   U   HRST   100,0     756   011   110118   PA 756 - PA 160 to Industrial Park Rd   R   HRST   100,0     756   011   110118   PA 756 - PA 160 to Industrial Park Rd   R   HRST   100,0     756   011   110118   PA 756 - PA 160 to Industrial Park Rd   C   HRST   3,582     756   013   114001   PA 756 - Alvin St to Industrial Park Rd   +C   HRST   918,0     756   013   114001   PA 756 - Alvin St to Industrial Park Rd   +C   HRST   2,891,0     756   013   114001   PA 756 - Alvin St to Industrial Park Rd   +C   HRST   2,891,0     756   013   114001   PA 756 - Alvin St to Industrial Park Rd   +C   HRST   335,0     756   013   114001   PA 756 - Alvin St to Industrial Park Rd   +C   HRST   335,0     756   013   114001   PA 756 - Alvin St to Industrial Park Rd   +C   HRST   335,0     756   013   114001   PA 756 - Alvin St to Industrial Park Rd   +C   HRST   335,0     756   013   114001   PA 756 - Alvin St to Industrial Park Rd   +C   HRST   335,0     756   013   114001   PA 756 - Alvin St to Industrial Park Rd   +C   HRST   335,0     756   013   114001   PA 756 - Alvin St to Industrial Park Rd   +C   HRST   335,0     756   013   114001   PA 756 - Alvin St to Industrial Park Rd   +C   HRST   335,0     756   013   114001   PA 756 - Alvin St to Industrial Park Rd   +C   HRST   335,0     756   013   114001   PA 756 - Alvin St to Industrial Park Rd   +C   HRST   335,0     756   013   114001   PA 756 - Alvin St to Industrial Park Rd   +C   HRST   335,0     756   013   114001   PA 756 - Alvin St to Industrial Park Rd   +C   HRST   405,0     756   013   114001   PA 756 - Alvin St to Industrial Park Rd   +C   HRST   405,0     756   013   114001   PA 756 - Alvin St to Industrial Park Rd   +C   HRST   405,0     756   013   114001   PA 756 - Alvin St to Industrial Park Rd   +C   HRST   405,0     756   013   114001   PA	S.R.	Section	MPMS#	Project Title	Phase	Area	2025-2036 12-Year Program Amount
756   011   110118	756	009	108162	PA 756 - PA 403 to SR 3016	+C	HRST	1,803,530
756	756	010	110119	PA 756 - Lamberd Ave to Alvin St	С	HRST	2,146,517
756	756	011	110118	PA 756 - PA 160 to Industrial Park Rd	F	HRST	300,000
756         011         110118         PA 756 - PA 160 to Industrial Park Rd         C         HRST         3,522           756         013         114001         PA 756 - Alvin St to Industrial Park Rd         +C         HRST         918,6           756         013         114001         PA 756 - Alvin St to Industrial Park Rd         +C         HRST         2,691,6           756         013         114001         PA 756 - Alvin St to Industrial Park Rd         +C         SAMI         2,193,1           756         013         114001         PA 756 - Alvin St to Industrial Park Rd         +C         HRST         335,6           756         013         114001         PA 756 - Alvin St to Industrial Park Rd         +C         HRST         335,6           756         013         114001         PA 756 - Alvin St to Industrial Park Rd         +C         HRST         335,0           865         0         120438         PA 865 over Abandoned Railroad         P         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         R         BRDG         100,0           865         0.48         98762         Lloydsville Run Bridge         U         BRDG         100,0	756	011	110118	PA 756 - PA 160 to Industrial Park Rd	U	HRST	100,000
756         013         114001         PA 756 - Alvin St to Industrial Park Rd         +C         HRST         918,1           756         013         114001         PA 756 - Alvin St to Industrial Park Rd         +C         HRST         2,691,0           756         013         114001         PA 756 - Alvin St to Industrial Park Rd         +C         SAMI         2,193,0           756         013         114001         PA 756 - Alvin St to Industrial Park Rd         +C         HRST         335,0           865         0         120438         PA 865 over Abandoned Railroad         P         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         U         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         R         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         C         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         C         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         C         BRDG         100,0           865	756	011	110118	PA 756 - PA 160 to Industrial Park Rd	R	HRST	100,000
756         013         114001         PA 756 - Alvin St to Industrial Park Rd         +C         HRST         2,691,6           756         013         114001         PA 756 - Alvin St to Industrial Park Rd         +C         SAMI         2,193,0           756         013         114001         PA 756 - Alvin St to Industrial Park Rd         +C         HRST         335,0           865         0         120438         PA 865 over Abandoned Railroad         P         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         U         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         R         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         R         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         C         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         R         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         C         BRDG         100,0           865         048	756	011	110118	PA 756 - PA 160 to Industrial Park Rd	С	HRST	3,582,157
756         013         114001         PA 756 - Alvin St to Industrial Park Rd         +C         SAMI         2,193,1           756         013         114001         PA 756 - Alvin St to Industrial Park Rd         +C         HRST         335,0           865         0         120438         PA 865 over Abandoned Railroad         P         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         U         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         R         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         R         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         C         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         C         BRDG         800,0           865         0.48         .98762         Lloydsville Run Bridge         U         BRDG         100,0           865         0.48         .98762         Lloydsville Run Bridge         C         BRDG         100,0           865         0.58         .98764	756	013	114001	PA 756 - Alvin St to Industrial Park Rd	+C	HRST	918,000
756         013         114001         PA 756 - Alvin St to Industrial Park Rd         +C         HRST         335,6           865         0         120438         PA 865 over Abandoned Railroad         P         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         U         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         R         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         C         BRDG         800,0           865         0         120438         PA 865 over Abandoned Railroad         C         BRDG         800,0           865         0         120438         PA 865 over Abandoned Railroad         C         BRDG         800,0           865         0.48         98762         Lloydsville Run Bridge         U         BRDG         100,0           865         0.4B         98762         Lloydsville Run Bridge         C         BRDG         600,0           865         0.4B         98762         Lloydsville Run Bridge         U         BRDG         100,0           865         0.5B         98764         PA865 Powell	756	013	114001	PA 756 - Alvin St to Industrial Park Rd	+C	HRST	2,691,000
865         0         120438         PA 865 over Abandoned Railroad         P         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         U         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         R         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         C         BRDG         800,0           865         0.4B         98762         Lloydsville Run Bridge         U         BRDG         100,0           865         0.4B         98762         Lloydsville Run Bridge         R         BRDG         100,0           865         0.4B         98762         Lloydsville Run Bridge         C         BRDG         600,0           865         0.4B         98762         Lloydsville Run Bridge         C         BRDG         600,0           865         0.4B         98762         Lloydsville Run Bridge         U         BRDG         100,0           865         0.5B         98764         PA865 Powell Run Bridge         U         BRDG         100,0           865         0.5B         98764         PA865 Powell Run Bridge         C	756	013	114001	PA 756 - Alvin St to Industrial Park Rd	+C	SAMI	2,193,000
865         0         120438         PA 865 over Abandoned Railroad         U         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         R         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         C         BRDG         800,0           865         04B         98762         Lloydsville Run Bridge         U         BRDG         100,0           865         04B         98762         Lloydsville Run Bridge         R         BRDG         100,0           865         04B         98762         Lloydsville Run Bridge         C         BRDG         600,0           865         04B         98762         Lloydsville Run Bridge         U         BRDG         100,0           865         05B         98764         PA865 Powell Run Bridge         U         BRDG         100,0           865         05B         98764         PA865 Powell Run Bridge         R         BRDG         100,0           865         05B         98764         PA865 Powell Run Bridge         C         BRDG         620,0           865         05B         98764         PA865 Powell Run Bridge         C	756	013	114001	PA 756 - Alvin St to Industrial Park Rd	+C	HRST	335,000
865         0         120438         PA 865 over Abandoned Railroad         R         BRDG         100,0           865         0         120438         PA 865 over Abandoned Railroad         C         BRDG         800,0           865         04B         98762         Lloydsville Run Bridge         U         BRDG         100,0           865         04B         98762         Lloydsville Run Bridge         R         BRDG         100,0           865         04B         98762         Lloydsville Run Bridge         C         BRDG         600,0           865         04B         98762         Lloydsville Run Bridge         U         BRDG         600,0           865         05B         98764         PA865 Powell Run Bridge         U         BRDG         100,0           865         05B         98764         PA865 Powell Run Bridge         R         BRDG         100,0           865         05B         98764         PA865 Powell Run Bridge         C         BRDG         620,0           865         05B         98764         PA865 Powell Run Bridge         C         BRDG         620,0           865         05B         98764         PA865 Powell Run Bridge         C	865	0	120438	PA 865 over Abandoned Railroad	Р	BRDG	100,000
865         0         120438         PA 865 over Abandoned Railroad         C         BRDG         800,0           865         04B         98762         Lloydsville Run Bridge         R         BRDG         100,0           865         04B         98762         Lloydsville Run Bridge         R         BRDG         100,0           865         04B         98762         Lloydsville Run Bridge         C         BRDG         600,0           865         05B         98764         PA865 Powell Run Bridge         U         BRDG         100,0           865         05B         98764         PA865 Powell Run Bridge         R         BRDG         100,0           865         05B         98764         PA865 Powell Run Bridge         C         BRDG         100,0           865         05B         98764         PA865 Powell Run Bridge         C         BRDG         100,0           865         05B         98764         PA865 Powell Run Bridge         C         BRDG         620,0           865         05B         98764         PA865 Powell Run Bridge         C         BRDG         620,0           1001         0         120440         SR 1001 over Railroad         P         BRDG <td>865</td> <td>0</td> <td>120438</td> <td>PA 865 over Abandoned Railroad</td> <td>U</td> <td>BRDG</td> <td>100,000</td>	865	0	120438	PA 865 over Abandoned Railroad	U	BRDG	100,000
865         04B         98762         Lloydsville Run Bridge         U         BRDG         100,0           865         04B         98762         Lloydsville Run Bridge         R         BRDG         100,0           865         04B         98762         Lloydsville Run Bridge         C         BRDG         600,0           865         05B         98764         PA865 Powell Run Bridge         U         BRDG         100,0           865         05B         98764         PA865 Powell Run Bridge         R         BRDG         100,0           865         05B         98764         PA865 Powell Run Bridge         C         BRDG         100,0           865         05B         98764         PA865 Powell Run Bridge         C         BRDG         100,0           865         05B         98764         PA865 Powell Run Bridge         C         BRDG         620,0           1001         0         120440         SR 1001 over Railroad         P         BRDG         300,0           1001         0         120440         SR 1001 over Railroad         C         BRDG         1,500,0           1002         0         120570         SR 1002 over SR 219         +P         BRDG	865	0	120438	PA 865 over Abandoned Railroad	R	BRDG	100,000
865         04B         98762         Lloydsville Run Bridge         R         BRDG         100,0           865         04B         98762         Lloydsville Run Bridge         C         BRDG         600,0           865         05B         98764         PA865 Powell Run Bridge         U         BRDG         100,0           865         05B         98764         PA865 Powell Run Bridge         R         BRDG         620,0           865         05B         98764         PA865 Powell Run Bridge         C         BRDG         620,0           1001         0         120440         SR 1001 over Railroad         P         BRDG         300,0           1001         0         120440         SR 1001 over Railroad         C         BRDG         1,500,0           1002         0         120570         SR 1002 over SR 219         +P         BRDG         650,0           1002         0         120570         SR 1002 over SR 219         +F         BRDG         500,0           1002         0         120570         SR 1002 over SR 219         +C         BRDG         2,409,0           1021         0         22478         SR 1021 over Beaverdam Run         +P         BRDG	865	0	120438	PA 865 over Abandoned Railroad	С	BRDG	800,000
865         04B         98762         Lloydsville Run Bridge         C         BRDG         600,0           865         05B         98764         PA865 Powell Run Bridge         U         BRDG         100,0           865         05B         98764         PA865 Powell Run Bridge         R         BRDG         100,0           865         05B         98764         PA865 Powell Run Bridge         C         BRDG         620,0           1001         0         120440         SR 1001 over Railroad         P         BRDG         300,0           1001         0         120440         SR 1001 over Railroad         C         BRDG         1,500,0           1002         0         120570         SR 1002 over SR 219         +P         BRDG         650,0           1002         0         120570         SR 1002 over SR 219         +F         BRDG         500,0           1002         0         120570         SR 1002 over SR 219         +C         BRDG         2,409,0           1021         0         22478         SR 1021 over Beaverdam Run         +P         BRDG         600,0           1021         0         22478         SR 1021 over Beaverdam Run         +C         BRDG	865	04B	98762	Lloydsville Run Bridge	U	BRDG	100,000
865         05B         98764         PA865 Powell Run Bridge         U         BRDG         100,0           865         05B         98764         PA865 Powell Run Bridge         R         BRDG         100,0           865         05B         98764         PA865 Powell Run Bridge         C         BRDG         620,0           1001         0         120440         SR 1001 over Railroad         P         BRDG         300,0           1001         0         120440         SR 1001 over Railroad         C         BRDG         1,500,0           1002         0         120570         SR 1002 over SR 219         +P         BRDG         650,0           1002         0         120570         SR 1002 over SR 219         +F         BRDG         500,0           1002         0         120570         SR 1002 over SR 219         +C         BRDG         2,409,0           1021         0         22478         SR 1021 over Beaverdam Run         +P         BRDG         600,0           1021         0         22478         SR 1021 over Beaverdam Run         +F         BRDG         600,0           1021         0         22478         SR 1021 over Beaverdam Run         +C         BRDG <td>865</td> <td>04B</td> <td>98762</td> <td>Lloydsville Run Bridge</td> <td>R</td> <td>BRDG</td> <td>100,000</td>	865	04B	98762	Lloydsville Run Bridge	R	BRDG	100,000
865         05B         98764         PA865 Powell Run Bridge         R         BRDG         100,0           865         05B         98764         PA865 Powell Run Bridge         C         BRDG         620,0           1001         0         120440         SR 1001 over Railroad         P         BRDG         300,0           1001         0         120440         SR 1001 over Railroad         C         BRDG         1,500,0           1002         0         120570         SR 1002 over SR 219         +P         BRDG         650,0           1002         0         120570         SR 1002 over SR 219         +F         BRDG         500,0           1002         0         120570         SR 1002 over SR 219         +C         BRDG         2,409,0           1021         0         22478         SR 1021 over Beaverdam Run         +P         BRDG         700,0           1021         0         22478         SR 1021 over Beaverdam Run         +F         BRDG         600,0           1021         0         22478         SR 1021 over Beaverdam Run         +C         BRDG         4,167,0	865	04B	98762	Lloydsville Run Bridge	С	BRDG	600,000
865         05B         98764         PA865 Powell Run Bridge         C         BRDG         620,0           1001         0         120440         SR 1001 over Railroad         P         BRDG         300,0           1001         0         120440         SR 1001 over Railroad         C         BRDG         1,500,0           1002         0         120570         SR 1002 over SR 219         +P         BRDG         650,0           1002         0         120570         SR 1002 over SR 219         +F         BRDG         500,0           1002         0         120570         SR 1002 over SR 219         +C         BRDG         2,409,0           1021         0         22478         SR 1021 over Beaverdam Run         +P         BRDG         700,0           1021         0         22478         SR 1021 over Beaverdam Run         +F         BRDG         600,0           1021         0         22478         SR 1021 over Beaverdam Run         +C         BRDG         4,167,0	865	05B	98764	PA865 Powell Run Bridge	U	BRDG	100,000
1001         0         120440         SR 1001 over Railroad         P         BRDG         300,0           1001         0         120440         SR 1001 over Railroad         C         BRDG         1,500,0           1002         0         120570         SR 1002 over SR 219         +P         BRDG         650,0           1002         0         120570         SR 1002 over SR 219         +F         BRDG         500,0           1002         0         120570         SR 1002 over SR 219         +C         BRDG         2,409,0           1021         0         22478         SR 1021 over Beaverdam Run         +P         BRDG         700,0           1021         0         22478         SR 1021 over Beaverdam Run         +F         BRDG         600,0           1021         0         22478         SR 1021 over Beaverdam Run         +C         BRDG         4,167,0	865	05B	98764	PA865 Powell Run Bridge	R	BRDG	100,000
1001         0         120440         SR 1001 over Railroad         C         BRDG         1,500,0           1002         0         120570         SR 1002 over SR 219         +P         BRDG         650,0           1002         0         120570         SR 1002 over SR 219         +F         BRDG         500,0           1002         0         120570         SR 1002 over SR 219         +C         BRDG         2,409,0           1021         0         22478         SR 1021 over Beaverdam Run         +P         BRDG         700,0           1021         0         22478         SR 1021 over Beaverdam Run         +F         BRDG         600,0           1021         0         22478         SR 1021 over Beaverdam Run         +C         BRDG         4,167,0	865	05B	98764	PA865 Powell Run Bridge	С	BRDG	620,000
1002       0       120570       SR 1002 over SR 219       +P       BRDG       650,0         1002       0       120570       SR 1002 over SR 219       +F       BRDG       500,0         1002       0       120570       SR 1002 over SR 219       +C       BRDG       2,409,0         1021       0       22478       SR 1021 over Beaverdam Run       +P       BRDG       700,0         1021       0       22478       SR 1021 over Beaverdam Run       +F       BRDG       600,0         1021       0       22478       SR 1021 over Beaverdam Run       +C       BRDG       4,167,0	1001	0	120440	SR 1001 over Railroad	P	BRDG	300,000
1002         0         120570         SR 1002 over SR 219         +F         BRDG         500,0           1002         0         120570         SR 1002 over SR 219         +C         BRDG         2,409,0           1021         0         22478         SR 1021 over Beaverdam Run         +P         BRDG         700,0           1021         0         22478         SR 1021 over Beaverdam Run         +F         BRDG         600,0           1021         0         22478         SR 1021 over Beaverdam Run         +C         BRDG         4,167,0	1001	0	120440	SR 1001 over Railroad	С	BRDG	1,500,000
1002         0         120570         SR 1002 over SR 219         +C         BRDG         2,409,0           1021         0         22478         SR 1021 over Beaverdam Run         +P         BRDG         700,0           1021         0         22478         SR 1021 over Beaverdam Run         +F         BRDG         600,0           1021         0         22478         SR 1021 over Beaverdam Run         +C         BRDG         4,167,0	1002	0	120570	SR 1002 over SR 219	+P	BRDG	650,000
1021         0         22478         SR 1021 over Beaverdam Run         +P         BRDG         700,0           1021         0         22478         SR 1021 over Beaverdam Run         +F         BRDG         600,0           1021         0         22478         SR 1021 over Beaverdam Run         +C         BRDG         4,167,0	1002	0	120570	SR 1002 over SR 219	+F	BRDG	500,000
1021         0         22478         SR 1021 over Beaverdam Run         +F         BRDG         600,0           1021         0         22478         SR 1021 over Beaverdam Run         +C         BRDG         4,167,0	1002	0	120570	SR 1002 over SR 219		BRDG	2,409,000
1021 0 22478 <b>SR 1021 over Beaverdam Run</b> +C BRDG 4,167,0	1021	0	22478	SR 1021 over Beaverdam Run	+P	BRDG	700,000
	1021	0	22478		+F	BRDG	600,000
1025 0 120430 <b>SR 1025 over Burgoon Run</b> P BRDG 375,0	1021	0	22478		+C	BRDG	4,167,000
<u>-</u>	1025	0	120430	SR 1025 over Burgoon Run	Р	BRDG	375,000

1025   0   120430   SR 1025 over Burgoon Run	S.R.	Section	MPMS#	Project Title	Phase	Area	2025-2036 12-Year Program Amount
1025   0   120430   SR 1025 over Burgoon Run   R   BRDG   25,000	1025	0	120430	SR 1025 over Burgoon Run	F	BRDG	190,000
1025   0	1025	0	120430	SR 1025 over Burgoon Run	U	BRDG	25,000
1027   000   22633   SR 1027 over Burgoon Run	1025	0	120430	SR 1025 over Burgoon Run	R	BRDG	25,000
1027         000         22633         SR 1027 over Burgoon Run         +F         BRDG         380,000           1027         000         22633         SR 1027 over Burgoon Run         +U         BRDG         100,000           1027         000         22633         SR 1027 over Burgoon Run         +R         BRDG         106,000           1027         000         22633         SR 1027 over Burgoon Run         +C         BRDG         1,665,000           2014         0         120342         SR 2014 - SR 1036 to SR 1005         P         HRST         150,000           2014         0         120342         SR 2014 - SR 1036 to SR 1005         C         HRST         4,000,000           2014         0         120342         SR 2014 - SR 1036 to SR 1005         C         HRST         4,000,000           2014         07B         22570         N Br Conemaugh Rn Br         U         BRDG         25,000           2014         07B         22570         N Br Conemaugh Rn Br         C         BRDG         1,395,000           2015         0         120448         SR 2015 over Little Conemaugh Rvr, RR & RR Street         +P         BRDG         50,000           2015         0         120448	1025	0	120430	SR 1025 over Burgoon Run	+C	BRDG	1,442,000
1027   000   22633   SR 1027 over Burgoon Run	1027	000	22633	SR 1027 over Burgoon Run	Р	BRDG	575,000
1027   000   22633   SR 1027 over Burgoon Run	1027	000	22633	SR 1027 over Burgoon Run	+F	BRDG	380,000
1027   000   22633   SR 1027 over Burgoon Run	1027	000	22633	SR 1027 over Burgoon Run	+U	BRDG	100,000
2014         0         120342         SR 2014 - SR 1036 to SR 1005         P         HRST         150,000           2014         0         120342         SR 2014 - SR 1036 to SR 1005         C         HRST         4,000,000           2014         07B         22570         N Br Conemaugh Rn Br         U         BRDG         25,000           2014         07B         22570         N Br Conemaugh Rn Br         R         BRDG         25,000           2014         07B         22570         N Br Conemaugh Rn Br         C         BRDG         1,395,000           2015         0         120448         SR 2015 over Little Conemaugh Rvr, RR & RR Street         +P         BRDG         500,000           2015         0         120448         SR 2015 over Little Conemaugh Rvr, RR & RR Street         +F         BRDG         300,000           2015         0         120448         SR 2015 over Little Conemaugh River         +C         BRDG         2,000,000           2015         0         120448         SR 2015 over Little Conemaugh River         +C         BRDG         100,000           2015         0         120448         SR 2015 over Little Conemaugh River         U         BRDG         25,000           2015	1027	000	22633	SR 1027 over Burgoon Run	+R	BRDG	100,000
2014         0         120342         SR 2014 - SR 1036 to SR 1005         C         HRST         4,000,000           2014         07B         22570         N Br Conemaugh Rn Br         U         BRDG         25,000           2014         07B         22570         N Br Conemaugh Rn Br         R         BRDG         25,000           2014         07B         22570         N Br Conemaugh Rn Br         C         BRDG         1,395,000           2015         0         120448         SR 2015 over Little Conemaugh Rvr, RR & RR Street         +P         BRDG         500,000           2015         0         120448         SR 2015 over Little Conemaugh River         +F         BRDG         300,000           2015         0         120448         SR 2015 over Little Conemaugh River         +C         BRDG         2,000,000           2015         0         120448         SR 2015 over Little Conemaugh River         P         BRDG         100,000           2015         0         120448         SR 2015 over Little Conemaugh River         U         BRDG         25,000           2015         0         22595         SR 2015 over Little Conemaugh River         R         BRDG         25,000           2015         0<	1027	000	22633	SR 1027 over Burgoon Run	+C	BRDG	1,665,000
2014         07B         22570         N Br Conemaugh Rn Br         U         BRDG         25,000           2014         07B         22570         N Br Conemaugh Rn Br         R         BRDG         25,000           2014         07B         22570         N Br Conemaugh Rn Br         C         BRDG         1,395,000           2015         0         120448         SR 2015 over Little Conemaugh Rvr, RR & RR Street         +P         BRDG         500,000           2015         0         120448         SR 2015 over Little Conemaugh Rvr, RR & RR Street         +F         BRDG         300,000           2015         0         120448         SR 2015 over Little Conemaugh River         +C         BRDG         2,000,000           2015         0         120448         SR 2015 over Little Conemaugh River         P         BRDG         2,000,000           2015         0         120448         SR 2015 over Little Conemaugh River         P         BRDG         100,000           2015         0         22595         SR 2015 over Little Conemaugh River         U         BRDG         25,000           2015         0         22595         SR 2015 over Little Conemaugh River         R         BRDG         25,000           3016	2014	0	120342	SR 2014 - SR 1036 to SR 1005	Р	HRST	150,000
2014         07B         22570         N Br Conemaugh Rn Br         R         BRDG         25,000           2014         07B         22570         N Br Conemaugh Rn Br         C         BRDG         1,395,000           2015         0         120448         SR 2015 over Little Conemaugh Rvr, RR & RR Street         +P         BRDG         500,000           2015         0         120448         SR 2015 over Little Conemaugh Rvr, RR & RR Street         +F         BRDG         300,000           2015         0         120448         SR 2015 over Little Conemaugh Rvr, RR & RR Street         +C         BRDG         2,000,000           2015         0         120448         SR 2015 over Little Conemaugh River         P         BRDG         2,000,000           2015         0         120448         SR 2015 over Little Conemaugh River         P         BRDG         25,000           2015         0         22595         SR 2015 over Little Conemaugh River         U         BRDG         25,000           2015         0         22595         SR 2015 over Little Conemaugh River         +C         BRDG         720,000           3016         0         120444         SR 3016 over Solomon Run         +P         BRDG         200,000      <	2014	0	120342	SR 2014 - SR 1036 to SR 1005	С	HRST	4,000,000
2014         07B         22570         N Br Conemaugh Rn Br         C         BRDG         1,395,000           2015         0         120448         SR 2015 over Little Conemaugh Rvr, RR & RR Street         +P         BRDG         500,000           2015         0         120448         SR 2015 over Little Conemaugh Rvr, RR & RR Street         +F         BRDG         300,000           2015         0         120448         SR 2015 over Little Conemaugh Rvr, RR & RR Street         +C         BRDG         2,000,000           2015         0         120448         SR 2015 over Little Conemaugh River         P         BRDG         100,000           2015         020         22595         SR 2015 over Little Conemaugh River         U         BRDG         25,000           2015         020         22595         SR 2015 over Little Conemaugh River         R         BRDG         25,000           2015         020         22595         SR 2015 over Little Conemaugh River         +C         BRDG         720,000           3016         0         120444         SR 3016 over Solomon Run         +P         BRDG         300,000           3016         0         120444         SR 3016 over Solomon Run         +F         BRDG         1,200,000     <	2014	07B	22570	N Br Conemaugh Rn Br	U	BRDG	25,000
2015         0         120448         SR 2015 over Little Conemaugh Rvr, RR & RR Street         +P         BRDG         500,000           2015         0         120448         SR 2015 over Little Conemaugh Rvr, RR & RR Street         +F         BRDG         300,000           2015         0         120448         SR 2015 over Little Conemaugh Rvr, RR & RR Street         +C         BRDG         2,000,000           2015         0         22595         SR 2015 over Little Conemaugh River         P         BRDG         25,000           2015         0         22595         SR 2015 over Little Conemaugh River         U         BRDG         25,000           2015         0         22595         SR 2015 over Little Conemaugh River         R         BRDG         25,000           2015         0         22595         SR 2015 over Little Conemaugh River         R         BRDG         25,000           2015         0         22595         SR 2015 over Little Conemaugh River         +C         BRDG         720,000           3016         0         120444         SR 3016 over Solomon Run         +P         BRDG         300,000           3016         0         120444         SR 3016 over Solomon Run         +C         BRDG         1,200,000	2014	07B	22570	N Br Conemaugh Rn Br	R	BRDG	25,000
2015         0         120448         SR 2015 over Little Conemaugh Rvr, RR & RR Street         +F         BRDG         300,000           2015         0         120448         SR 2015 over Little Conemaugh Rvr, RR & RR Street         +C         BRDG         2,000,000           2015         020         22595         SR 2015 over Little Conemaugh River         P         BRDG         100,000           2015         020         22595         SR 2015 over Little Conemaugh River         U         BRDG         25,000           2015         020         22595         SR 2015 over Little Conemaugh River         R         BRDG         25,000           2015         020         22595         SR 2015 over Little Conemaugh River         +C         BRDG         25,000           2015         020         22595         SR 2015 over Little Conemaugh River         +C         BRDG         720,000           3016         0         120444         SR 3016 over Solomon Run         +P         BRDG         300,000           3016         0         120444         SR 3016 over Solomon Run         +F         BRDG         1,200,000           3026         02B         22491         Franklin Borough Clapboard         U         BRDG         25,000      <	2014	07B	22570	N Br Conemaugh Rn Br	С	BRDG	1,395,000
2015         0         120448         SR 2015 over Little Conemaugh Rvr, RR & RR Street         +C         BRDG         2,000,000           2015         020         22595         SR 2015 over Little Conemaugh River         P         BRDG         100,000           2015         020         22595         SR 2015 over Little Conemaugh River         U         BRDG         25,000           2015         020         22595         SR 2015 over Little Conemaugh River         R         BRDG         25,000           2015         020         22595         SR 2015 over Little Conemaugh River         +C         BRDG         720,000           3016         0         120444         SR 3016 over Solomon Run         +P         BRDG         300,000           3016         0         120444         SR 3016 over Solomon Run         +F         BRDG         1,200,000           3016         0         120444         SR 3016 over Solomon Run         +C         BRDG         1,200,000           3026         02B         22491         Franklin Borough Clapboard         U         BRDG         25,000           3026         02B         22491         Franklin Borough Clapboard         +C         BRDG         1,345,000           3027	2015	0	120448	SR 2015 over Little Conemaugh Rvr, RR & RR Street	+P	BRDG	500,000
2015         020         22595         SR 2015 over Little Conemaugh River         P         BRDG         100,000           2015         020         22595         SR 2015 over Little Conemaugh River         U         BRDG         25,000           2015         020         22595         SR 2015 over Little Conemaugh River         R         BRDG         25,000           2015         020         22595         SR 2015 over Little Conemaugh River         +C         BRDG         720,000           3016         0         120444         SR 3016 over Solomon Run         +P         BRDG         300,000           3016         0         120444         SR 3016 over Solomon Run         +F         BRDG         200,000           3016         0         120444         SR 3016 over Solomon Run         +C         BRDG         1,200,000           3026         02B         22491         Franklin Borough Clapboard         U         BRDG         25,000           3026         02B         22491         Franklin Borough Clapboard         +C         BRDG         1,345,000           3027         0         120552         SR 3027 over PA 56         P         BRDG         300,000	2015	0	120448	SR 2015 over Little Conemaugh Rvr, RR & RR Street	+F	BRDG	300,000
2015         020         22595         SR 2015 over Little Conemaugh River         U         BRDG         25,000           2015         020         22595         SR 2015 over Little Conemaugh River         R         BRDG         25,000           2015         020         22595         SR 2015 over Little Conemaugh River         +C         BRDG         720,000           3016         0         120444         SR 3016 over Solomon Run         +P         BRDG         300,000           3016         0         120444         SR 3016 over Solomon Run         +F         BRDG         200,000           3016         0         120444         SR 3016 over Solomon Run         +C         BRDG         1,200,000           3016         0         120444         SR 3016 over Solomon Run         +C         BRDG         1,200,000           3026         028         22491         Franklin Borough Clapboard         U         BRDG         25,000           3026         028         22491         Franklin Borough Clapboard         +C         BRDG         1,345,000           3027         0         120552         SR 3027 over PA 56         P         BRDG         300,000	2015	0	120448	SR 2015 over Little Conemaugh Rvr, RR & RR Street	+C	BRDG	2,000,000
2015         020         22595         SR 2015 over Little Conemaugh River         R         BRDG         25,000           2015         020         22595         SR 2015 over Little Conemaugh River         +C         BRDG         720,000           3016         0         120444         SR 3016 over Solomon Run         +P         BRDG         300,000           3016         0         120444         SR 3016 over Solomon Run         +F         BRDG         200,000           3016         0         120444         SR 3016 over Solomon Run         +C         BRDG         1,200,000           3026         02B         22491         Franklin Borough Clapboard         U         BRDG         25,000           3026         02B         22491         Franklin Borough Clapboard         R         BRDG         25,000           3026         02B         22491         Franklin Borough Clapboard         +C         BRDG         1,345,000           3027         0         120552         SR 3027 over PA 56         P         BRDG         300,000	2015	020	22595	SR 2015 over Little Conemaugh River	P	BRDG	100,000
2015         020         22595         SR 2015 over Little Conemaugh River         +C         BRDG         720,000           3016         0         120444         SR 3016 over Solomon Run         +P         BRDG         300,000           3016         0         120444         SR 3016 over Solomon Run         +F         BRDG         200,000           3016         0         120444         SR 3016 over Solomon Run         +C         BRDG         1,200,000           3026         02B         22491         Franklin Borough Clapboard         U         BRDG         25,000           3026         02B         22491         Franklin Borough Clapboard         R         BRDG         25,000           3026         02B         22491         Franklin Borough Clapboard         +C         BRDG         1,345,000           3027         0         120552         SR 3027 over PA 56         P         BRDG         300,000	2015	020	22595	SR 2015 over Little Conemaugh River	U	BRDG	25,000
3016         0         120444         SR 3016 over Solomon Run         +P         BRDG         300,000           3016         0         120444         SR 3016 over Solomon Run         +F         BRDG         200,000           3016         0         120444         SR 3016 over Solomon Run         +C         BRDG         1,200,000           3026         02B         22491         Franklin Borough Clapboard         U         BRDG         25,000           3026         02B         22491         Franklin Borough Clapboard         R         BRDG         25,000           3026         02B         22491         Franklin Borough Clapboard         +C         BRDG         1,345,000           3027         0         120552         SR 3027 over PA 56         P         BRDG         300,000	2015	020	22595	SR 2015 over Little Conemaugh River	R	BRDG	25,000
3016         0         120444         SR 3016 over Solomon Run         +F         BRDG         200,000           3016         0         120444         SR 3016 over Solomon Run         +C         BRDG         1,200,000           3026         02B         22491         Franklin Borough Clapboard         U         BRDG         25,000           3026         02B         22491         Franklin Borough Clapboard         R         BRDG         25,000           3026         02B         22491         Franklin Borough Clapboard         +C         BRDG         1,345,000           3027         0         120552         SR 3027 over PA 56         P         BRDG         300,000	2015	020	22595	SR 2015 over Little Conemaugh River	+C	BRDG	720,000
3016         0         120444         SR 3016 over Solomon Run         +C         BRDG         1,200,000           3026         02B         22491         Franklin Borough Clapboard         U         BRDG         25,000           3026         02B         22491         Franklin Borough Clapboard         R         BRDG         25,000           3026         02B         22491         Franklin Borough Clapboard         +C         BRDG         1,345,000           3027         0         120552         SR 3027 over PA 56         P         BRDG         300,000	3016	0	120444	SR 3016 over Solomon Run	+P	BRDG	300,000
3026         02B         22491         Franklin Borough Clapboard         U         BRDG         25,000           3026         02B         22491         Franklin Borough Clapboard         R         BRDG         25,000           3026         02B         22491         Franklin Borough Clapboard         +C         BRDG         1,345,000           3027         0         120552         SR 3027 over PA 56         P         BRDG         300,000	3016	0	120444	SR 3016 over Solomon Run	+F	BRDG	200,000
3026         02B         22491         Franklin Borough Clapboard         R         BRDG         25,000           3026         02B         22491         Franklin Borough Clapboard         +C         BRDG         1,345,000           3027         0         120552         SR 3027 over PA 56         P         BRDG         300,000	3016	0	120444	SR 3016 over Solomon Run	+C	BRDG	1,200,000
3026         02B         22491         Franklin Borough Clapboard         +C         BRDG         1,345,000           3027         0         120552         SR 3027 over PA 56         P         BRDG         300,000	3026	02B	22491	Franklin Borough Clapboard	U	BRDG	25,000
3027 0 120552 <b>SR 3027 over PA 56</b> P BRDG 300,000	3026	02B	22491	Franklin Borough Clapboard	R	BRDG	25,000
	3026	02B	22491	Franklin Borough Clapboard	+C	BRDG	1,345,000
3027 0 120552 <b>SR 3027 over PA 56</b> U BRDG 25,000	3027	0	120552	SR 3027 over PA 56	Р	BRDG	300,000
	3027	0	120552	SR 3027 over PA 56	U	BRDG	25,000

S.R.	Section	MPMS#	Project Title	Phase	Area	2025-2036 12-Year Program Amount
3027	0	120552	SR 3027 over PA 56	R	BRDG	25,000
3027	0	120552	SR 3027 over PA 56	+C	BRDG	1,672,000
3035	0	22532	SR 3035 over Little Conemaugh River	+P	BRDG	505,817
3035	0	22532	SR 3035 over Little Conemaugh River	+F	BRDG	380,000
3035	0	22532	SR 3035 over Little Conemaugh River	+U	BRDG	25,000
3035	0	22532	SR 3035 over Little Conemaugh River	+R	BRDG	25,000
3035	0	22532	SR 3035 over Little Conemaugh River	+C	BRDG	3,900,000
3041	0	120431	SR 3041 (BRKEY 8665) over Laurel Run	Р	BRDG	100,000
3041	0	120431	SR 3041 (BRKEY 8665) over Laurel Run	U	BRDG	25,000
3041	0	120431	SR 3041 (BRKEY 8665) over Laurel Run	R	BRDG	25,000
3041	0	120431	SR 3041 (BRKEY 8665) over Laurel Run	С	BRDG	950,000
3041	0	120441	SR 3041 (BRKEY 8664) over Laurel Run	Р	BRDG	300,000
3041	0	120441	SR 3041 (BRKEY 8664) over Laurel Run	С	BRDG	1,500,000
3104	02B	114043	Mount Airy Drive over US 219 Rehab	U	BRDG	250,000
3104	02B	114043	Mount Airy Drive over US 219 Rehab	+C	BRDG	3,260,000
4002	0	120428	SR 4002 over Little Elk Creek	Р	BRDG	100,000
4002	0	120428	SR 4002 over Little Elk Creek	U	BRDG	25,000
4002	0	120428	SR 4002 over Little Elk Creek	R	BRDG	25,000
4002	0	120428	SR 4002 over Little Elk Creek	+C	BRDG	720,000
4007		22338	SR 4007 over California Run	Р	BRDG	100,000
4007		22338	SR 4007 over California Run	U	BRDG	25,000
4007		22338	SR 4007 over California Run	R	BRDG	25,000
4007		22338	SR 4007 over California Run	+C	BRDG	720,000
4017	03B	94491	N Patton Chest Creek Brdg	U	BRDG	150,000
4017	03B	94491	N Patton Chest Creek Brdg	R	BRDG	250,000
4017	03B	94491	N Patton Chest Creek Brdg	+C	BRDG	1,860,000
4019	0	120425	SR 4019 over Little Chest Creek	Р	BRDG	100,000
4019	0	120425	SR 4019 over Little Chest Creek	U	BRDG	25,000
4019	0	120425	SR 4019 over Little Chest Creek	R	BRDG	25,000

S.R.	Section	MPMS#	Project Title	Phase	Area	2025-2036 12-Year Program Amount
4019	0	120425	SR 4019 over Little Chest Creek	С	BRDG	720,000
7220	406	22391	T-406 Jamestown Rd over NSRR	Р	BRDG	506,479
7220	406	22391	T-406 Jamestown Rd over NSRR	F	BRDG	200,000
7220	406	22391	T-406 Jamestown Rd over NSRR	U	BRDG	200,000
7220	406	22391	T-406 Jamestown Rd over NSRR	R	BRDG	200,000
7220	406	22391	T-406 Jamestown Rd over NSRR	С	BRDG	4,945,911
7227	000	67240	T-513 over West Branch of the Susquehanna River	Р	BRDG	160,000
7227	000	67240	T-513 over West Branch of the Susquehanna River	F	BRDG	90,000
7227	000	67240	T-513 over West Branch of the Susquehanna River	U	BRDG	25,000
7227	000	67240	T-513 over West Branch of the Susquehanna River	R	BRDG	25,000
7227	000	67240	T-513 over West Branch of the Susquehanna River	С	BRDG	720,000
7301	0	117089	Iron Street over Hinckston Run	Р	BRDG	350,000
7301	0	117089	Iron Street over Hinckston Run	F	BRDG	150,000
7301	0	117089	Iron Street over Hinckston Run	U	BRDG	25,000
7301	0	117089	Iron Street over Hinckston Run	R	BRDG	25,000
7301	0	117089	Iron Street over Hinckston Run	С	BRDG	1,130,000
7423	SON	22380	Sonman Avenue over Trout Run	P	BRDG	160,000
7423	SON	22380	Sonman Avenue over Trout Run	F	BRDG	90,000
7423	SON	22380	Sonman Avenue over Trout Run	U	BRDG	25,000
7423	SON	22380	Sonman Avenue over Trout Run	R	BRDG	25,000
7423	SON	22380	Sonman Avenue over Trout Run	С	BRDG	776,000
7434	0	120394	8th Street Bridge over Fox Run	Р	BRDG	350,000
7434	0	120394	8th Street Bridge over Fox Run	F	BRDG	90,000
7434	0	120394	8th Street Bridge over Fox Run	U	BRDG	25,000
7434	0	120394	8th Street Bridge over Fox Run	R	BRDG	25,000
7434	0	120394	8th Street Bridge over Fox Run	С	BRDG	700,000
					TOTAL	\$310,782,292

# Appendix B: Illustrative Projects (Exceeding Fiscal Constraint)

ROADWAY PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Adams Street, Bedford Street, and Baumer Street Intersection Alignment	Entire intersection needs to be reworked or reengineered dedicated turning Lanes need to be implemented in property acquisition needs to be thought of for better flow of traffic	Johnstown	Public Survey		Project	High
Johnstown to Westmont Roadway Alignment	Roadways leading from Johnstown to Westmont are narrow, poorly maintained, have sharp bends, and include pedestrian blind spots.	Southmont	Public Survey		Project	High
Ramp Installation from Menoher Blvd to Johnstown Expressway (PA 56)	An off / on ramp to connect PA 56 to Menoher Blvd. Improve travel from Westmont to Richland and reduce traffic on Haynes Street.	Johnstown	Public Survey		Project	High
Bedford St and Adams St Intersection Improvements	Intersection Improvements Bedford Street and Adams Street	Johnstown	Public Survey		Project	High
Scalp Ave and Eisenhower Blvd Intersection Improvements	Congested intersection	Richland	Public Survey		Project	High
Rowena Drive (US 422) and US 22 Intersection Visibility	Difficult to determine if safe to enter Rowena Drive (US 422) from US 22	Cambria	Public Survey	US 22 Corri- dor Study	Project	High
US 422 and Cardiff Road Intersection Safety Improvements	Dangerous intersection, especially for trucks. Turning lanes would help or a lower speed limit.	Blacklick	Public Survey		Project	High
US 219 and PA 56 Intersection	Intersection of US 219 and PA 56	Richland	Public Survey	US 219 Corri- dor Study	Project	High

ROADWAY PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Eisenhower Blvd next to Scalp Ave (PA 56) Intersection Improvements	Intersection Improvements Eisenhower Blvd next to PA 56	Richland	Public Survey		Project	High
Resurface Bedford Street and Clinton Street	Road in need of resurfacing and lane lines painted seasonally.	Johnstown	STC	Maintenance	Project	High
US 219 and Plank Road Intersection Improvements	Difficult to see when turning left to continue on 219 N	East Carroll	Public Survey	US 219 Corri- dor Study	Project	Medium
US 219 and Galleria Drive Intersection Signage	Better signage in this area so people know they can not turn.	Richland	Public Survey	US 219 Corri- dor Study	Project	Medium
Central Ave (PA 403) Safety Improvements	Safety Improvements on Central Ave (PA 403) across B&O Railroad (James Mayer Riverwalk)	Johnstown	Public Survey		Project	Medium
Freight Improvements Harold Ave	Freight Improvements Harold Ave	Johnstown	Public Survey	Freight Move- ment Plan	Project	Medium
Admiral Peary Hwy (US 22) and Wilmore Road Intersection Light Recalibration	Red light indicator for traffic light does not always activate before light changes.	Cambria	Public Survey	US 22 Corri- dor Study	Project	Medium
Scalp Ave (PA 56) and Eisenhower Blvd Intersection Traffic Light Recalibration	Intersection needs longer turning lanes on Eisenhower Blvd. and traffic light timing needs adjusted	Richland	Public Survey		Project	Medium
Laurel Ave and Strayer Street (PA 56) Intersection Light Configuration	Light is very long from Laurel Ave, causes people to travel narrow residential side streets/alleys to avoid this light.	Johnstown	Public Survey		Project	Medium
Goucher and Franklin St Intersection Safety Improvements	Ferndale Ave to Franklin St and Franklin St to Goucher St intersection visibility and traffic light improvements.	Johnstown	Public Survey		Project	Medium
US 219 and Elton Road (PA 756) Intersection Traffic Light Safety Adjustment	Turning right from the Route 219 exit ramp onto Elton Road has safety issues from poor line of sight.	Richland	Public Survey	US 22 Corri- dor Study	Project	Medium
Repave Main Street through Scalp Level	Repave Main Street through Scalp Level	Richland	Public Survey	Maintenance	Project	Medium

ROADWAY PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
PA 756, Scalp Ave (PA 56), and Belmont Street Intersection Safety	PA 756, Scalp Ave, and Belmont Street Intersection Signage	Geistown	Public Survey	Maintenance	Project	Medium
Woodmont Road and Menoher Blvd (PA 271) Intersection Safety Improvements	Intersection Safety Improvements at Woodmont Road and Menoher Blvd (PA 271)	Upper Yoder	Public Survey		Project	Medium
Corridor Safety on Menoher Blvd Through Westmont	Corridor Safety on Menoher Through Westmont	Westmont	Public Survey		Project	Medium
Extend Ramp onto Johnstown Expressway (PA 56)	Short ramp onto Johnstown Expressway (PA 56) where road intersects Walters Ave	Richland	Public Survey		Project	Medium
Scalp Ave (PA 56) and Luray Ave Intersection Safety Improvements	The visibility at this intersection poor.	Richland	Public Survey	Scalp Ave Corridor Study	Project	Medium
Franklin Street and Haynes Street Intersection Light Adjustments	Intersection needs a green arrow for left-hand turns from Franklin onto Haynes.	Johnstown	Public Survey		Project	Medium
Roosevelt Blvd (PA 56) and John Street Intersection Safety Improvements	High traffic and dangerous.	Johnstown	Public Survey		Project	Medium
Broad Street Calming Measures Through Johnstown	Broad Street Calming Measures Through Johnstown	Richland	Public Survey		Project	Medium
Expand Roosevelt Blvd to Two Lanes	Needs to be reworked back into two lanes	Johnstown	Public Survey		Project	Medium
Westmont Shopping Center Roadway Improvement	The roads are terrible in this area. Especially in the Dollar Tree shopping plaza.	Lower Yoder	Public Survey		Project	Medium
US 219 Safety Improvements	US 219 between Galleria Drive and the Sidman exit	Adams	Public Survey		Project	Medium
Complete US 219	Reinforce the completion of 219 to assist in our economic growth and connectivity.	Croyle	Public Survey		Project	Medium
Bypass from Broad Street to PA 403	Bypass from Broad Street to PA 403 or PA 56 past Coopersdale / West End would improve traffic flow and travel times to US 22	Johnstown	Public Survey		Project	Medium

ROADWAY PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Franklin Street and Locust Street (PA 271) Intersection Upkeep	Overgrown trees & brush on the river shore and the angle of the intersection make coming into Franklin from the bridge very dangerous.	Franklin	Public Survey	Maintenance	Project	Medium
Harmony Drive and William Penn Ave (PA 271) Intersection Improvements	Visibility Improvements at Harmony Drive and William Penn Ave	Jackson	Public Survey		Project	Medium
Buzz Wagner Memorial Hwy and Birtle Rd Intersection Improvements	Blind turns	Richland	Public Survey		Project	Medium
Admiral Peary Hwy (US 22) Improvements	Admiral Peary Hwy (US 22) improvements near Minni Mall Rd	Cambria	Public Survey		Project	Medium
Broad Street (PA 56) Configuration	Broad St corridor, consider different lane configuration from 4-lane cross-section to 3-lane cross-section that includes a two-way center turn lane and dedicated bicycle facilities.	Johnstown	Public Survey		Project	Medium
5-Way Intersection Safety Improvement	Safety at Clinton Street, Railroad Street, Church Ave, Gautier Street	Johnstown	Public Survey		Project	Medium
William Penn Ave (PA 271) and Park Hill Drive Feasibility Study	Consider feasibility of roundabout at PA 271 junction.	East Taylor	Public Survey		Project	Medium
Scalp Ave (PA 56) Intersection Crosswalk Improvements	Pedestrians not allowed to cross at intersections.	Geistown	Public Survey		Project	Medium
Benshoff Road and Iron Street Intersection Safety	Traffic coming down the hill has the right of way.  Traffic coming from the west end seldom stop at the stop sign.	Johnstown	Public Survey		Project	Medium
Minno Drive Congestion and Safety Improvements	Congestion and crashes on Minno Drive near Westmont Shopping Center	Lower Yoder	Public Survey		Project	Medium
US 219 and US 422 Intersection Safety Improvements	Safety Improvements at US 219 and US 422 Intersection	Cambria	Public Survey	US 219 Corri- dor Study	Project	Medium
US 422 (Ben Franklin Hwy) and Sylvan Glen Drive Intersection Safety	Illegal left turn needs addressed	Cambria	Public Survey		Project	Medium
Safety Improvements On-ramp from Galleria Drive to US 219	On ramp needs merge controls.	Richland	Public Survey	US 219 Corri- dor Study	Project	Medium

ROADWAY PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Repave Ridge Road	Surface is bad. Road needs 3R		Public Survey	Maintenance	Project	Medium
Stormwater Runoff and Maintenance on Admiral Peary Hwy	Stormwater Runoff and Maintenance on Admiral Peary Hwy	Cresson	Public Survey	Maintenance	Project	Medium
Richland Town Centre Walmart Safety Improvements	Improved signs and painted lines around the Wal- Mart area.	Richland	Public Survey	Maintenance	Project	Medium
Repair Former C&I Bridge Over US 22	Safety concern for the highway below.	Cambria	Public Survey		Project	Medium
Repave US 219 Through Croyle	Repave US 219 Through Croyle	Croyle	Public Survey	Maintenance	Project	Medium
US 422 Route Safety Improvements	Route 422 is dangerous truck traffic as well as for regular car and school bus travel	Cambria	Public Survey	US 422 Corri- dor Study	Project	Medium
US 22 through Ebensburg Safety Improvements	Route 22 business corridor via Ebensburg needs to time red lights like Murryville did.	Cambria	Public Survey	US 22 Corri- dor Study	Project	Medium
Franklin Street (PA 403) and Napoleon Street Intersection Alignment	Alignment and rock wall make for poor visibility when turning right on red from Napoleon Street to Franklin Street.	Johnstown	Public Survey		Project	Medium
Johnstown Expressway (PA 56) Merge Lane Alignment	Unsafe merge, extend the merge lane so traffic exiting at the glass road interchange don't have to merge.	Johnstown	Public Survey		Project	Medium
Install Additional Off Ramps on Johnstown Expressway (PA 56)	Have on off ramp on both sides.	Johnstown	Public Survey		Project	Medium
Stormwater Runoff on Admiral Peary Hwy	Stormwater Runoff and Maintenance on Admiral Peary Hwy	Cresson	Public Survey	Maintenance	Project	Medium
US 219 and Carroll Street Intersection Crosswalk	There is no crosswalk enforcement or accessible crosswalks for the intersection.	Carrolltown	Public Survey	US 219 Corri- dor Study	Project	Medium
High Street (US 422) and Julian Street Intersection Crosswalk Safety	Crosswalks need better lighting	Ebensburg	Public Survey	Maintenance	Project	Medium
Wilmore Road (PA 160) and Ebony Road Intersection Improvements	Intersection Improvements at PA 160 (Wilmore Road) and Ebony Road	Cambria	Public Survey		Project	Medium
PA 36 and Glendale Lake Road Safety Improvements	Safety when merging PA 36 and Glendale Lake Road	Clearfield	Public Survey		Project	Medium

ROADWAY PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
High Street (US 422) and Julian Street Intersection Crosswalk Safety	Crosswalks need better safety	Ebensburg	Public Survey		Project	Medium
Washington Street Safety Improvements	Washington Street in Johnstown Maintenance and Safety Improvements.	Johnstown	Public Survey		Project	Medium
US 219 and Bedford Street Intersection Improvement	Intersection is too complicated and congested.	Richland	Public Survey	US 219 Corri- dor Study	Project	Medium
Intersection Safety Improvements High Street and Cherry Street	Crosswalks are not observed by motorist.	Ebensburg	Public Survey		Project	Medium
US 22 and Walmart Drive Intersection Safety Improvements	Intersection Safety Improvements at US 22 and Walmart Drive	Cambria	Public Survey	US 22 Corri- dor Study	Project	Medium
Broad Street and Fairfield Ave Intersection Improvements	Intersection Improvements Broad Street and Fairfield Ave	Johnstown	Public Survey		Project	Medium
Additional Turn Lane On High Street Intersecting with Manor Drive	Consider a turn lane addition on High Street at this intersection.	Ebensburg	Public Survey		Project	Medium
US 219, Elton Road, and Theatre Drive Intersection Maintenance	Cars traveling north on Theatre Dr merge at the intersection. Painting line across the intersection would help prevent accidents.	Richland	Public Survey	Maintenance	Project	Medium
Install a Signal at US 219 Off-ramp to US 422	Dangerous intersection, install a signal at US 219 off-ramp to US 422.	Cambria	Public Survey		Project	Medium
Wilmore Road, Admiral Peary Hwy (US 22) Intersection Safety Improvements	This traffic signal is hazardous. This should be a right turn in and out only. It is too steep for a traffic light.	Ebensburg	STC		Project	Medium
Admiral Peary Hwy (US 22) and Cook Road Intersection Alignment	A roundabout would make traffic flow better and safer.	Cambria	STC		Project	Medium
Resurface High Street (US 422) and Spruce Street	Resurface High Street and Spruce Street	Ebensburg	STC	Maintenance	Project	Medium
Broad Street Reconfiguration	Needs center turn lane and elimination it two driving lanes to improves safety and reduce speeding. Along Broad Street from Washington Street to Laurel Ave	Johnstown	STC		Project	Medium

ROADWAY PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Repave Galleria Drive	Repave Galleria Drive	Richland	STC	Maintenance	Project	Medium
Broad St (PA 56) Improvements	Improvements on Broad St (PA 56)	Johnstown	Public Survey		Project	Medium
Repave D St Ext	Sinking roadway.	Lower Yoder	Public Survey	Maintenance	Project	Medium
Truck Lane on US 22 in Ebensburg	Truck Lane on US 22 in Ebensburg	Cambria	Public Survey		Project	Medium
East Conemaugh Bridge Intersection Safety Improvements		East Conemaugh	Public Survey		Project	Medium
US 219 and Admiral Peary Hwy (US 22) Intersection Improvement	Merging congestion from US 219 to US 22.	Cambria	Public Survey		Project	Medium
Safety on Menoher Blvd (PA 271) in Upper Yoder	Safety on Menoher Blvd (PA 271) in Upper Yoder	Upper Yoder	Public Survey		Project	Medium
Milton St and Center St Intersection Improvements	Intersection Improvements Milton St and Center St	Ebensburg	Public Survey		Project	Medium
Truck Improvements on Union St	Truck Improvements on Union St	Johnstown	Public Survey		Project	Medium
Barnett St onto Southmont Blvd Visibility	When approaching Southmont Blvd on Barnett St, visibility is limited by parked cars.	Johnstown	Public Survey		Project	Medium
US 219 (Ditters Curve) Roadway Alignment	Tight curve through Northen Cambria on US 219 is dangerous	Northern Cambria	Steering Com- mittee		Project	Medium
US 22 and Beulah Road Intersection Traffic Light Adjustment	The traffic lights at US 22 and Beulah Road, need to be recalibrated. They are not in sync and create a traffic flow issue, especially during peak hours for work.	Cambria	Public Survey	US 22 Corri- dor Study	Project	Medium
Congestion on Scalp Ave (PA 56)	High congestion on Scalp Ave between US 219 and Eisenhower Blvd which causes unsafe conditions.	Richland	Public Survey	Scalp Ave Corridor Study	Study	Medium
Rowen Drive (US 422) and Admiral Peary Hwy (US 22) Congestion	Congestion Rowen Drive (US 422) and Admiral Peary Hwy (US 22)	Cambria	Public Survey	US 22 Corri- dor Study	Study	Medium
High Street and Center Street Congestion	Congestion High Street and Center Street	Ebensburg	Public Survey		Study	Medium
Ebensburg Congestion	Truck traffic passing through center of town instead of using highway.	Ebensburg	Public Survey		Study	Medium

ROADWAY PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Extend Four-Lane US 219 Northbound from Ebensburg	Extend US 219 Northbound from Ebensburg	East Carroll	Public Survey	US 219 Corri- dor Study	Study	Medium
US 22 Congestion Reduction	Invest in smart technology to eliminate stop-and- go congestion through Cambria Township.	Cambria	Public Survey	TSM0	Study	Medium
US 422 (Ben Franklin Hwy) and High Street Intersection Congestion Improvements	US 422/High Street light gets congested during commuter traffic hours.	Ebensburg	Public Survey		Study	Medium
Extend Four-Lane US 219 Northbound from Ebensburg	Extend US 219 Northbound from Ebensburg	East Carroll	Public Survey	US 219 Corri- dor Study	Study	Medium
Northbound US 219 Safety Improvements	Safety Improvements US 219 Northbound in East Carroll to relieve Truck Hazards.	East Carroll	Public Survey	US 219 Corri- dor Study	Study	Medium
US 219 Congestion	Congestion on US 219 West of Ebensburg	Cambria	Public Survey	US 219 Corri- dor Study	Study	Medium
US 219 Congestion	4 lane roadway ends, turning into a windy road through small towns.	East Carroll	Public Survey	Freight Move- ment Plan	Study	Medium
Congestion Admiral Peary Hwy (US 22)	Congestion Admiral Peary Hwy (US 22)	Cambria	Public Survey	US 22 Corri- dor Study	Study	Medium
William Penn Hwy (US 22) Safety Improvement	Safety Improvement on William Penn Hwy (US 22) in Cresson	Cresson	Public Survey	US 22 Corri- dor Study	Study	Medium
Four-Lane US 422	Make US 422 a four-lane road	Blacklick	Public Survey	US 422 Corri- dor Study	Study	Medium
Extend Four-Lane US 219 Northbound from Carroltown	Extend Four-Lane US 219 Northbound from Carroltown	Susquehanna	Public Survey	US 219 Corri- dor Study	Study	Medium
Freight Issues North Center & High street	Address freight related issues.	Ebensburg	Public Survey	Freight Move- ment Plan	Study	Medium
Increase Truck Parking	Parking Near Laurel Avenue (PA 403) and Iron Street	Johnstown	Public Survey	Freight Move- ment Plan	Study	Medium
Re-Route Freight out of Ebensburg	Congestion Issues through Ebensburg. North Center & High street.	Ebensburg	Public Survey	Freight Move- ment Plan	Study	Medium

ROADWAY PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
US 219 Safety Improvements	Safety Improvements on US 219	Susquehanna	Public Survey	US 219 Corri- dor Study	Study	Medium
Refocus Traffic to US 219 and Eisenhower Blvd	Need interchange here to serve commercial activities along Eisenhower. Traffic is coming through Scalp Ave which is congested and has turning issues when traffic is present.	Richland	STC	Maintenance Project	Study	Medium
Complete the US 219 4-Lane Roadway	Route 219 North four lane ends. The completion of US 219 to the New York border would have a massive economic impact.	East Carroll	STC	US 219 Corri- dor Study	Study	Medium
Connect US 219 to PA 36	The Northern section of Cambria is passed over. Better access is needed to improve commerce.	East Carroll	STC	US 219 Corri- dor Study	Study	Medium
Re-Route Freight off of Strayer St (PA 56)	Frequent fright traffic through residential neighborhood.	Johnstown	Public Survey	Freight Move- ment Plan	Study	Medium
Menoher Blvd. (PA 271) and Goucher St Congestion	Congestion, Menoher Blvd., PA 271, and Goucher St	Westmont	Public Survey		Study	Medium
Goucher Street and Sunray Drive Intersection Safety Improvements	Green arrow to flashing turning lane light happens too quickly	Upper Yoder	Public Survey		Project	Low
Repair Potholes in Johnstown	Improve potholes in Johnstown	Richland	Public Survey	Maintenance	Project	Low
PA 756 and PA 160 Intersection Geometry	Intersection is still difficult to see oncoming traffic from PA 160. The curve on PA 160 needed to be eliminated when they made the improvements.	Adams	Public Survey		Project	Low
Improve Freight Corridor Access to the Johnstown Airport	Would like to see cargo/freight increase out of the airport.	Richland	Public Survey	Freight Move- ment Plan	Project	Low
Glendale Lake Road and Grozanick Road Intersection Safety Improvements	Dangerous intersection	Clearfield	Public Survey		Project	Low
Johnstown Roadway Repairs	Overall potholes and construction repairs need to be taken care of.	Johnstown	Public Survey	Maintenance	Project	Low
Frankstown Rd and Truman Blvd Intersection Improvements	Safety Improvements	Conemaugh	Public Survey		Project	Low

ROADWAY PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Repave Woodmont Road	Repave Woodmont Road	Upper Yoder	Public Survey	Maintenance	Project	Low
Truman Blvd and Fulmer Road Intersection Geometry off Frankstown Road	Align Truman Blvd and Fulmer Road off Frankstown Road	Conemaugh	Public Survey		Project	Low
Wilmore Road (PA 160) and Ebony Road Intersection Improvements	Intersection Improvements at PA 160 (Wilmore Road) and Ebony Road	Cambria	Public Survey		Project	Low
Repave Evergreen Road (PA 160)	Repave Evergreen Road (PA 160) through Wilmore	Summerhill	Public Survey		Project	Low
Widen Sheridan Street	Widen Sheridan Street for safety.	Johnstown	Public Survey		Project	Low
Repave Castle, Taft, Earl and Blackberry Streets	Repave Castle, Taft, Earl and Blackberry Streets	Middle Taylor	Public Survey	Maintenance	Project	Low
Stormwater Runoff Frankstown Road	Along Frankstown where water runs onto the northbound lane and freezes.	Richland	Public Survey		Project	Low
Stormwater Runoff Rockville Road	Along Rockville Road where water runs onto the northbound lane and freezes.	Croyle	Public Survey		Project	Low
Repave Darr Street	Poor Condition	Geistown	Public Survey	Maintenance	Project	Low
Frankstown Road and Mt Hope Road Intersection Safety	Poor intersection visibility	Richland	Public Survey		Project	Low
PA 756 and PA 160 Intersection Traffic Light Installation	Needs a traffic light at PA 160 PA 756 intersection	Adams	Public Survey		Project	Low
Widen Elton Street and PA 160	Elton road and PA 160 have anticipated commercial growth therefore need to be wider.	Adams	Public Survey		Project	Low
Install Safety Light on Glendale Lake Road	School zone needs flashing speed limit sign.	Clearfield	Public Survey		Project	Low
Repave Hostler Road	Repair Hostler Road	Richland	Public Survey	Maintenance	Project	Low
Spinner Road and Admiral Peary Hwy Intersection	Intersection of Spinner Road and Admiral Peary Hwy	Munster	Public Survey		Project	Low
Repave St Augustine Road	Repave St Augustine Road	Clearfield	Public Survey	Maintenance	Project	Low
Intersection Configuration Criste Rd/ Vale Wood Rd.	No left hand turn for freight trucks.	Munster	Public Survey		Project	Low

ROADWAY PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Colonel Drake Hwy (PA 36) and Glendale Lake Road Intersection Safety	Intersection of PA 36 and Glendale lake road is unsafe turning from north bound PA 36 onto GLR.	Clearfield	Public Survey		Project	Low
Beulah Road and Ghost Town Trail Bridge Intersection Alignment	Straighten out the road with the ghost town bridge so cars can see on coming traffic. Can get more parking for the trail.	Cambria	Public Survey		Project	Low
Goucher Street and Mowery Ave Intersection Safety Improvements	Poor visibility turning onto Goucher.	Upper Yoder	Public Survey		Project	Low
Center Street Safety Improvements	Safety Improvements on Center Street in Front of Cambria County Court House	Ebensburg	Public Survey		Project	Low
Repave Mizel Lane	Repave Mizel Lane in Conemaugh	Conemaugh	Public Survey	Maintenance	Project	Low
Intersection Safety Improvement at Bond St and Cypress Ave	Irregular stop sign placement makes traffic flow difficult and cars frequently run stop signs because of it.	Johnstown	Public Survey	Maintenance	Project	Low
Repave Cramer Pike (PA 403) from US 22 to US 422	Rough sections of road from US 22 to US 422 (PA 403 Cramer Pike).	Jackson	Public Survey	Maintenance	Project	Low
Hostetler Road and Erickson Drive Intersection Reconfiguration	Recent project reconfigured intersection, people are running off road large pot hole is developing in dirt.	Richland	STC	Maintenance	Project	Low
Stormwater Management Near PA 53 in Wilmore	No inlet boxes for stormwater runoff. The homeowners that live there are getting their yards and basements flooded during high rainfall.	Wilmore	STC	Maintenance	Project	Low
PA 160 and PA 756 Intersection Geometry	Vehicle lights blind each other due to different elevations.	Adams	STC		Project	Low
Stormwater Management Frankstown Road	The drainage is an issue here that needs to be addressed. Especially in the winter the undrained water on the roadway freezes and causes a safety concern.	Conemaugh	STC		Project	Low

ROADWAY PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
William Penn Ave (US 22) and Admiral Peary Hwy (PA 271) Intersection Improvement	Intersection improvement to increase sight distance for Pace Street.	Jackson	Public Survey		Project	Low
Repair Laurel Ave Railroad Underpass	Repair Laurel Ave Railroad Underpass; low vertical clearance for trucks.	Johnstown	Public Survey	Freight Move- ment Plan	Project	Low
Repave Eisenhower Blvd	Repair Eisenhower Blvd in Ferndale	Stonycreek	Public Survey	Maintenance	Project	Low
Truck Improvements on Goucher St	Truck Improvements on Goucher St	Southmont	Public Survey	Freight Move- ment Plan	Project	Low
Install Interchange on US Highway 219 and Tower Rd	Install Interchange on US Highway 219 and Tower Rd in Croyle Township	Croyle	Public Survey		Project	Low
Goucher St and Sunshine Ave Intersection Improvements	Intersection Improvements Goucher St and Sunshine Ave	Westmont	Public Survey		Project	Low
Re-Route Freight/Trucks out of Rock Run	Large vehicle's with trailers cannot safely traverse through Rock Run.	Patton	Public Survey	Freight Move- ment Plan	Study	Low
Improve Freight Movement through Johnstown	Improve freight movement through downtown Johnstown to increase opportunity.	Johnstown	Public Survey	Freight Move- ment Plan	Study	Low
Freight Improvements on Evergreen Rd	Freight Improvements on Evergreen Rd	Summerhill	Public Survey	Freight Move- ment Plan	Study	Low
Freight Route Reconfiguration	The mountains and hills are challenging through Johnstown	Richland	Public Survey	Freight Study	Study	Low
US 422 Safety Improvements	Safety Improvements US 422 to Indiana, including heavy truck movement.	Cambria	Public Survey	US 422 Corri- dor Study	Study	Low
Extend Four-Lane US 219 Northbound from Ebensburg	Extend US 219 Northbound from Ebensburg	Cambria	Public Survey	US 219 Corri- dor Study	Study	Low
Small Freight Corridors	Roads are not large enough to allow good shipping and allowing industry to improve.	Conemaugh	Public Survey	Freight Move- ment Plan	Study	Low
Connect US 219 to PA 36	Connect US 219 to PA 36	East Carroll	Public Survey	US 219 Corri- dor Study	Study	Low

ROADWAY PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Refocus Traffic to US 219 and Eisenhower Blvd	Interchange would provide better access to business corridor easier access to Ferndale section of Johnstown and reduce traffic on Scalp Ave. Bridge is already there just needs ramps.	Richland	STC	Scalp Ave Corridor Study	Study	Low
Truck Parking on Ridge Rd (PA 555)	Truck Parking on PA 555 (Ridge Rd)	Barr	Public Survey	Truck Parking Study	Study	Low
Goucher St Improvements	Improvements on Goucher St in front of Hiram G Andrews Center	Upper Yoder	Public Survey		Study	Low
Center St Improvements	Improvements on Center St out of Ebensburg	Ebensburg	Public Survey		Study	Low
US 219 Signage	US 219 Signage	East Carroll	Public Survey		Not an LRTP Project	Medium
Fairfield Ave and Broad Street Intersection Signage	Adjust Signage, people won't turn right on red because there is a sign stating 'stop here on red'.	Johnstown	Public Survey	Maintenance	Not an LRTP Project	Medium
Sync Hayne Street Traffic Lights	Sync Hayne Street Traffic Lights	Johnstown	Public Survey		Not an LRTP Project	Medium
US 219 Signage Improvement	Improve signage along all main arteries and US 219 and clear overgrowth away from signs.	Richland	Public Survey		Not an LRTP Project	Medium
US 22 and Mini Mall Road Intersection Traffic Light Recalibration	The traffic lights at US 22 and Mini Mall Road need to be recalibrated.	Cambria	Public Survey	US 22 Corri- dor Study	Not an LRTP Project	Medium
William Penn Hwy Winter Maintenance in Cresson	William Penn Hwy Winter Maintenance in Cresson	Cresson	Public Survey	Maintenance	Not an LRTP Project	Medium
US 22 and Beulah Road Intersection Traffic Light Adjustment		Cambria	Public Survey	US 22 Corri- dor Study	Not an LRTP Project	Medium
Jaycee Drive and Scalp Ave (PA 56) Intersection Traffic Light Recalibrations	Jaycee Drive light doesn't trigger, dangerous during heavy traffic times.	Richland	Public Survey		Not an LRTP Project	Medium
US 219, Elton Road, and Theatre Drive Intersection Light Recalibrations	Lights work against each other.	Richland	Public Survey	US 219 Corri- dor Study	Not an LRTP Project	Medium

ROADWAY PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Donald Lane and Elton Road Intersection Light Recalibration	Traffic Lights	Richland	Public Survey		Not an LRTP Project	Medium
US 219 Roadway Repairs	Roadway Repairs between Johnstown and Ebensburg on US 219	Adams	Public Survey	Draft 2025 TIP - Project ID: 116926	Not an LRTP Project	Medium
Johnstown Expressway (PA 56)	Johnstown Expressway Repair	Dale	STC	2021 TIP - Project ID: 96482	Not an LRTP Project	Medium
US 422 Speed Limit Adjustment	Speed limit on US 422 in front of the Admiral Peary VoTech.	Cambria	STC	Speed limit study	Not an LRTP Project	Medium
Maintenance Haynes Street (PA 271)	Lane lines need to be painted seasonally. Street lights need to be replaced on this main corridor.	Johnstown	STC	Maintenance	Not an LRTP Project	Medium
Corridor Designation on Center St (US 219)	Change the designation of this state road to a municipal road and have restricted access for trucks.	Ebensburg	STC		Not an LRTP Project	Medium
Maintenance Haynes Street (PA 271)	Lane lines need to be painted seasonally. Street lights need to be replaced on this main corridor.	Johnstown	STC	Maintenance	Not an LRTP Project	Medium
Traffic Calming On US 422	Traffic Calming for the residential reduced speed zone in Belsano.	Blacklick	Public Survey		Not an LRTP Project	Medium
Scalp Ave (PA 56) Intersection Traffic Light Recalibration	The length of the traffic line entering the plaza occasionally backs up and causes one of the two lanes to be blocked.	Richland	Public Survey	Maintenance	Not an LRTP Project	Medium
US 22 and Mini Mall Rd Intersection Traffic Light Recalibration	People tend to ride through the area with elevated speeds. This intersection can be particularly congested as well at times.	Cambria	Public Survey		Not an LRTP Project	Medium
Roosevelt Blvd Lighting	Lighting on Roosevelt Blvd near the Johnstown Stone Bridge	Johnstown	Public Survey	Maintenance	Not an LRTP Project	Medium

ROADWAY PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Use the Johnstown Airport for Freight Movement	Trucks could pick up and drop off freight at the Airport. The Airport has land designated as KOEZ and ALDZ to promote land development by offering tax incentives to businesses moving to the Airport.	Richland	Public Survey		Not an LRTP Project	Low
Johnstown Expressway (PA 56) Roadway Lines	Lines and demarcation skills updated annually.	Dale	Public Survey	2021 TIP - Project ID: 96482	Not an LRTP Project	Low
Countywide Roadway Condition	Roads can just be rough and hard on your car again county wide	Westmont	Public Survey		Not an LRTP Project	Low
Highway System to US 22/Pittsburgh	Develop a new highway system going out of Johnstown to US22/Pittsburgh	Johnstown	Public Survey		Not an LRTP Project	Low
Winter Maintenance	Better snow removal		Public Survey	Maintenance	Not an LRTP Project	Low
Improvements Turkey Path Rd	Turkey Path Rd	Summerhill	Public Survey	Maintenance	Not an LRTP Project	Low
Lemon Drop Rd Improvements		East Carroll	Public Survey	Maintenance	Not an LRTP Project	Low
Marina Road and PA 53 Intersection Marking	Marina Road and PA 53 needs to be marked	Reade	Public Survey	Maintenance	Not an LRTP Project	Low
Repave Aviation Drive	Aviation drive is in poor condition.	Richland	Public Survey	Maintenance	Not an LRTP Project	Low
US 219 and Bedford Street Lane Markings	Better lane markings at intersection of US 219 and Bedford Street	Richland	Public Survey	Maintenance	Not an LRTP Project	Low
PA 53 and Munster Road Intersection Lane Markings	No line markers to stop at the intersection	Portage	Public Survey	Maintenance	Not an LRTP Project	Low
Repave Sheridan Street and Grandinett Steet Area	Potholes and big bumps along N Sheridan Street and Grandinett Steet	Johnstown	Public Survey	Maintenance	Not an LRTP Project	Low
US 22 and Beulah Road Intersection Traffic Light Adjustment		Clearfield	Public Survey	US 22 Corri- dor Study	Not an LRTP Project	Low

ROADWAY PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Repave Roadway in Johnstown	Johnstown and roads leading to the city are in poor condition.		Public Survey	Maintenance	Not an LRTP Project	Low
Glendale Lake Road Safety Lights	School zone needs flashing speed limit sign.	Patton	Public Survey		Not an LRTP Project	Low
County-wide Road Repair	County-wide Road Repair	Cambria	Public Survey	Maintenance	Not an LRTP Project	Low
County-wide Road Repair	All roads in central and northern Cambria need improved access for the population and businesses	Allegheny	Public Survey	Maintenance	Not an LRTP Project	Low
Mill Creek Road Signage	Signage on Mill Creek Road	Westmont	Public Survey	Signage	Not an LRTP Project	Low
Increase Signage on Goucher St	Better signage on truck load limits.	Lower Yoder	Public Survey	Signage	Not an LRTP Project	Low
Roadway Maintenance on Manor Dr	The road is very slick from loose gravel.	Cambria	Public Survey	Maintenance	Not an LRTP Project	Low
US 219 Designation	US 219 need to continue as a highway to the Maryland border.	Richland	Public Survey		Not an LRTP Project	Low
Von Lunen Rd Street Lights	Need street lights on Von Lunen Rd	Johnstown	Public Survey	Maintenance	Not an LRTP Project	Low
Crawford Ave and Chestnut Ave Traffic Light Recalibration	Intersection Safety Improvements at Crawford Ave and Chestnut Ave	Northern Cambria	Public Survey		Not an LRTP Project	Low
Signage for Roundabout between Scalp Ave, Belmont St, and Bedford St.	Roundabout between Scalp Ave, Belmont St, and Bedford St. The local public doesn't know how to handle a roundabout. More education efforts are necessary than an article on PennDOT's website.	Geistown	Public Survey	Signage	Not an LRTP Project	Low
Goucher St and Hershberger Rd Intersection Light Recalibration	The green light on one intersection goes too quick.	Upper Yoder	Public Survey	Maintenance	Not an LRTP Project	Low

BRIDGE PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
US 219 Bridge Repair Into Somerset County.	Plan funding to replace large span structure.	Richland	Public Survey		Project	High
Bike/Pedestrian Bridge Installation over the East Conemaugh River	The Urban Connectivity plan recommended a separate bike-ped bridge to Maple Ave.	Johnstown	Public Survey		Project	High
Fairfield Ave Railroad Underpass	Underpass needs signs indicating vertical clearance	Johnstown	Public Survey		Project	Medium
Little Conemaugh River Bridge Repair	Bridge Repair in Johnstown.	Johnstown	Public Survey		Project	Medium
Reopen and Repair Bridge on Fairfield and Tremont Rd	Reopen and Repair Bridge.	Lower Yoder	Public Survey		Project	Medium
Repair Main St and Railroad Underpass	Repair Main St and Railroad Underpass	Portage	Public Survey		Project	Low
Reconstruction of NS Keystone Bridge	Norfolk Southern Keystone bridge needs reconstructed for heavy truck issues and line of sight issues.	Portage	STC	Freight Move- ment Plan	Project	Low
Repairs on Lee St, Portage Underpass under Railroad	Repairs on Lee St, Portage Underpass under Railroad	Portage	Public Survey		Project	Low
Reopen and Repair Hinckston Run Dam Bridge	Hinckston Run Dam bridge has bee closed for years, needs repaired and reopened.	East Taylor	Public Survey		Project	Low
Increased Signage for Bridges	Trucks cross bridges from Sidman/St. Michael to Portage, crossing bridges that they should not.	Summerhill	Public Survey	Signage	Not an LRTP Project	

MULTIMODAL PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Trail link from Ghost Town Trail to Wilmore Dam	Fund trail link from Ghost Town Trail to Wilmore Dam to Path of the Flood.	Summerhill	Public Survey		Project	High
Develop Trailhead and River Access	Demolish the former Sheesley's Concrete plant for development of trail head and river access as well as cross walk safety.	Johnstown	Public Survey	Trailhead Evaluation	Project	High
UPJ & Penn Highlands Educational Corridor Safety Improvements	Bicycle/Pedestrian issues around the UPJ & Penn Highlands educational corridor.	Richland	Public Survey	Corridor Study	Project	High
Inclined Plane Walking Trail to the 9/11 Trail Corridor	Complete Inclined Plane walking trail to the 9/11 trail corridor	Johnstown	Public Survey		Project	High
Walnut St bridge Pedestrian Improvements	From the Flood Museum across Walnut St bridge to Cambria City on the Path of the Flood Trail	Johnstown	Public Survey		Project	High
Trail Improvements for ADA Accessibility	Trails being established are not wheelchair accessible.	Lower Yoder	Public Survey	Active Trans- portation Plan	Study	High
Sidewalk Extensions to Goucher St	Goucher street has no sidewalks making walkability difficult.	Upper Yoder	Public Survey		Project	Medium
Central Ave and Valley Pike Roadway Configuration	Install road diet on Central Ave and Valley Pike in Johnstown	Johnstown	Public Survey		Project	Medium
Franklin St (PA 271) and Main St Crosswalk Safety Improvements	Crosswalk Safety Improvements Franklin St (PA 271) and Main St	Johnstown	Public Survey		Project	Medium
Front Street in Mineral Point Trailhead and River Access.	Develop trail head parking and river front access along Front Street in Mineral Point.	East Taylor	Public Survey	Trailhead Evaluation	Project	Medium
PA 56 and Washington St Intersection Safety Improvement	Dangerous crossing PA 56 and Washington St	Johnstown	Public Survey		Project	Medium
Trail connection from Ghost Town Trail to Munster	Trail from the present end of the Ghost Town Trail to Munster Road, also the extension to Loretto	Cambria	Public Survey		Project	Medium
Completion of C&I Trail	Final connection from Cardiff to the east side of Nanty Glo to complete the C&I Trail	Blacklick	Public Survey		Project	Medium
Southern Johnstown Trail Connection	Trail connection from Bens Creek to the James Mayer Riverwalk		Public Survey		Project	Medium

MULTIMODAL PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Trail Connection in Mineral Point	Connection Staple Bend Tunnel Trail and Path of the Flood Trail	East Taylor	Public Survey	Active Trans- portation Plan	Project	Medium
Sidewalk Installation for Safety in Belmont	No access for children to get to the playground on a busy street. Addition of a sidewalk would be ideal for safety.	Richland	Public Survey		Project	Medium
Off Road Trail Connecting Tunnel to Trail	Off road trail system needed to connect Tunnel and existing trail. Challenge is crossing US 22 with overpass or tunnel. Need cooperation with PennDOT Forest and County Authority.	Conemaugh	STC		Project	Medium
Downtown Johnstown Bus Shelters	Elderly have to stand with no protection from the elements, need shelters.	Johnstown	Public Survey		Project	Medium
ADA Compliance for CamTran Buses	CamTran buses do not accommodate larger wheelchair users.	Johnstown	Public Survey	Local Coordi- nated Plan	Project	Medium
Crosswalk Safety Issues	Crossing along Main Street causes issues	Scalp Level	Public Survey		Project	Medium
PA 271 and Tech Park Dr. Intersection Safety Improvement	Tight turns for trucks, therefore causes hazards.	Johnstown	Public Survey		Project	Medium
Chestnut St and McCoy St Crosswalk Safety Improvements	Crosswalk Safety Improvements Across Chestnut St/McCoy St in Nanty Glo	Nanty Glo	Public Survey		Project	Medium
High St and Julian St Crosswalk Safety Improvements	Crosswalk Safety Improvements in Ebensburg High St/ Julian St	Ebensburg	Public Survey		Project	Medium
Pedestrian Safety for Travel Under US 219	Pedestrian Safety for Travel Under US 219	Richland	STC		Project	Medium
Franklin Street Bike Lane Drainage	The bike lane on Franklin Street has drainage causing cyclists to ride on the street instead of the bike lane.	Southmont	STC		Project	Medium
US 219 Bike/Ped Safety Improvements Through Richland	Bike/Ped Safety Improvements on US 219 through Richland	Richland	Public Survey		Project	Medium

MULTIMODAL PROJECTS					Project/	
Project Name/Location	Project Description	Municipality	Source	Notes	Study	Priority
Glendale Lake Trail Expansion	Lack of bicycle access around Glendale lake	White	Public Survey	Active Trans- portation Plan	Project	Medium
Safety Improvements Crossing US 422 on the Ghost Town Trail	Ebensburg Ghost Town Trail crossing over US 422 will need alert lights/warnings, etc. to help people cross safely.	Ebensburg	Public Survey		Project	Medium
Path of the Flood Trail Protected Bike Lanes	Protected bike lanes from Franklin to downtown Johnstown along the Path of the Flood trail	Franklin	Public Survey		Project	Medium
High St and Center St Intersection Safety Improvement	Pedestrians tend not to get the right of way on the cross walk.	Ebensburg	Public Survey		Project	Medium
Ghost Town Trail Safety Improvements Into Nanty Glo	Cardiff Rd into Nanty Glo is dangerous for bikers. Signs and safety measures need to be added.	Blacklick	Public Survey	Active Trans- portation Plan	Project	Medium
Ebensburg Pedestrian Safety		Ebensburg	Public Survey	Ebensburg Complete Streets Evalu- ation	Project	Medium
Bicycle Safety Improvements Along Menother Blvd	Add a protected bike lane along this major corridor.	Southmont	Public Survey	Active Trans- portation Plan	Project	Medium
Franklin St Bicycle Lanes	Bike lanes that start/stop randomly along Franklin St, south of Johnstown.	Johnstown	Public Survey	Active Trans- portation Plan	Project	Medium
Safety Improvements Across Chestnut St (PA 271) on the Ghost Town Trail	The crossing at the Ghost Town Trail needs safety improvements, including updated striping, traffic calming measures to reduce vehicle speeds, more signage indicating the crossing, and increased lighting of the sidewalk to improve pedestrian visibility at dusk and nighttime.	Nanty Glo	Public Survey		Project	Medium
Expand Airport Parking	Expand parking and prepare for personal drone use.	Richland	Public Survey		Project	Medium

MULTIMODAL PROJECTS  Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Ebensburg Bus Shelters	Need shelters on existing stops.	Cambria	Public Survey		Project	Medium
Richland Center Bus Stop	Entire city routes	Richland	Public Survey	Local Coordi- nated Plan	Project	Medium
Bus Transit at the Johnstown Airport	A regular scheduled bus stop should be aligned with flight schedules to provide transit between airport, downtown, and the rail station	Richland	Public Survey	Local Coordi- nated Plan	Project	Medium
Installation of Sidewalks near Geistown	Lack of sidewalks	Geistown	Public Survey		Project	Medium
Sidewalk Installation on Industrial Park Road	Sidewalk installation on Industrial Park Road east of Richland.	Richland	Public Survey	Active Trans- portation Plan	Project	Medium
Gallitzin Interchange Park and Ride	Add a park and ride lot at the Gallitzin interchange. People are already parking here but something should be designed to make it safer and get the parked vehicles well separated from moving traffic	Tunnelhill	STC		Project	Medium
Downtown Johnstown Bike Study	There are not enough bike lanes in the county, especially in the City of Johnstown.	Westmont	Public Survey	Downtown Complete Streets/Bike/ Ped Study	Study	Medium
Johnstown Bike Lanes	Need more bike lanes throughout Johnstown	Johnstown	Public Survey	Downtown Johnstown Complete Streets	Study	Medium
Scalp Avenue Pedestrian Improvements	No sidewalks along Scalp Avenue	Richland	Public Survey	Bicycle and Pedestrian Safety Study on Scalp Ave	Study	Medium
Install Bike Lanes on Franklin Street in Johnstown	Install bike lanes on Franklin Street in Johnstown, between Hickory Street and downtown.	Johnstown	Public Survey	Downtown Johnstown Complete Streets	Study	Medium

MULTIMODAL PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Ghost Town Trail Connection out of Ebensburg	Ghost Town Trail Connection out of Ebensburg across US 422 to SFU.	Ebensburg	Public Survey	Active Trans- portation Plan	Study	Medium
Goucher St Sidewalk Study	No sidewalk from Goucher St / Lindburg Ave to Giant Eagle	Upper Yoder	Public Survey		Study	Medium
Menoher Blvd (PA 271) Bike/Ped Improvements	Bike/Ped Improvements on Menoher Blvd (PA 271)	Johnstown	Public Survey		Study	Medium
Johnstown Area Trail Expansion	More trails would increase exercise and recreational activities.	Johnstown	Public Survey		Study	Medium
Develop Trail Connection	Trail needs to be developed from Mineral Point (and the Path of the Flood Trail) to Nanty Glo (the Ghost Town Trail).	East Taylor	Public Survey		Study	Medium
Glendale Lake Trail Connections	Lack of trail connection	Chest	Public Survey	Active Trans- portation Plan	Study	Medium
Trail Expansion on Abandoned Rail	Trail expansion on abandoned rail along PA 53 north of Prince Gallitzin Sate Park	Reade	Public Survey	Active Trans- portation Plan	Study	Medium
Somerset County Trail Connections	Lack of trail connection		Public Survey	Active Trans- portation Plan	Study	Medium
Ghost Town Trail Extension East	Ghost Town Trail connection east through into Cresson and Loretto	Ebensburg	Public Survey	Active Trans- portation Plan	Study	Medium
Extension of Trails into Northern Cambria	No trail resources are in the Northern Cambria region of the county.	Susquehanna	Public Survey	Active Trans- portation Plan	Study	Medium
Rail-Trail Creation South of Dysart	Abandoned rail could become rail trail.	Dean	Public Survey	Active Trans- portation Plan	Study	Medium

MULTIMODAL PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Trail Connection	Trail connection near Ebensburg	Cambria	Public Survey	Active Trans- portation Plan	Study	Medium
Trail Connection St Michael to the Path of the Flood Trail	Trail from Berwind Park to the Path of the Flood Trail	Adam	Public Survey	Active Trans- portation Plan	Study	Medium
Trail Connection into Ashville	Trail connection	Allegheny	Public Survey	Active Trans- portation Plan	Study	Medium
Trail Connection North of Prince Gallitzin Sate Park	Trail connection north of Prince Gallitzin Sate Park near Flinton	White	Public Survey	Active Trans- portation Plan	Study	Medium
Ghost Town Trail to Prince Gallitzin State Park Trail Connection	Trails to connect Prince Gallitzin State Park to Carrolltown, then to Ghost Town Trail	East Carroll	Public Survey	Active Trans- portation Plan	Study	Medium
Ghost Town Trail to Loretto Trail Connection	Trail Extension from the Ghost Town Trail to Loretto	Allegheny	Public Survey	Active Trans- portation Plan	Study	Medium
Trail Connection Near PA 553 (Ridge Rd)	Trail connection	Barr	Public Survey	Active Trans- portation Plan	Study	Medium
Installation of Trails Along Wilmore Dam	Need walking and biking trail along Wilmore Dam. Road grade is already there.	Summerhill	Public Survey	Active Trans- portation Plan	Study	Medium
Ghost Town Trail Connection in Beula	Ghost Town Trail connection with new trail built.	Cambria	Public Survey	Active Trans- portation Plan	Study	Medium
Create Rail trail in Northern Cambria	Old railroad could be trails in the Northern part of the county.	Northern Cambria	Public Survey	Active Trans- portation Plan	Study	Medium

MULTIMODAL PROJECTS					Project/	
Project Name/Location	Project Description	Municipality	Source	Notes	Study	Priority
Trail Connection in Ebensburg	Trail connection	Ebensburg	Public Survey	Active Trans- portation Plan	Study	Medium
Old Blue Bridge Trail Connection in South Fork	Trail connection to the Old Blue Bridge	South Fork	Public Survey	Active Trans- portation Plan	Study	Medium
Trail Development Ebensburg to Loretto	Ebensburg to Loretto to Cresson trail development	Cambria	Public Survey	Active Trans- portation Plan	Study	Medium
Trail Connection South of Ebensburg near PA 160	Trail connection	Summerhill	Public Survey	Active Trans- portation Plan	Study	Medium
Extend Trails to Carrolltown	There is no trails that connect to Carrolltown.	Carrolltown	Public Survey	Active Trans- portation Plan	Study	Medium
Trail Connection Ebensburg to Munster		Allegheny	Public Survey	Active Trans- portation Plan	Study	Medium
Trail Extension from Johnstown Trails to Ghost Town Trail	Trail Extension from Johnstown Jim Mayer / Sandyvale trail to the Ghost Town Trail	Johnstown	Public Survey	County-Wide Trail Study	Study	Medium
Trail Connection to Patton	Build trail to Patton and connect to Carrolltown Park.	East Carroll	Public Survey	Active Trans- portation Plan	Study	Medium
Sidewalk Study in Vinco	No sidewalks in Vinco	Cambria	Public Survey	Active Trans- portation Plan	Study	Medium
Bike Lane Safety Improvement	Better bike lanes are needed along with shareable roads.	Conemaugh	Public Survey	Downtown Complete Streets/Bike/ Ped Study	Study	Medium

MULTIMODAL PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Extend CamTran Johnstown Service Hours	All of CamTran, times don't seem to be early/late enough for workers and very few covered stops.	Johnstown	Public Survey	Local Coordi- nated Plan	Study	Medium
Sidewalk Safety and ADA Concerns		Westmont	Public Survey	Active Trans- portation Plan	Study	Medium
Service Connection Johnstown to Altoona	No regular services between Altoona and Johnstown.		Public Survey	Local Coordi- nated Plan	Study	Medium
Roadway Safety Improvements for Bicycles	Pave wider shoulders for cyclists to get off traffic lanes.	Upper Yoder	Public Survey	Active Trans- portation Plan	Study	Medium
Ghost Town Trail Connection out of Ebensburg	Extend the Ghost Town Trail over US 422 (Rowena Dr).	Ebensburg	Public Survey	Active Trans- portation Plan	Study	Medium
Johnstown Bus Stop (Galleria)	Entire city routes	Richland	Public Survey	Local Coordi- nated Plan	Study	Medium
Bike Trail Connections to Richland	No bike trails in Richland for safe multimodal access.	Richland	Public Survey	Active Trans- portation Plan	Study	Medium
Bus Stop Near Intersection of US 219 and US 22	Bus Stop Near Intersection of US 219 and US 22	Cambria	Public Survey	Local Coordi- nated Plan	Project	Low
Bus Stop at the Vinco Shopping Center off of William Penn Ave (PA 271)	Bus Stop at the Vinco Shopping Center off of PA 271 (William Penn Ave)	Jackson	Public Survey	Local Coordi- nated Plan	Project	Low
Bus Stop at the Parkhill Shopping Center off of William Penn Ave (PA 271)	Bus Stop at the Parkhill Shopping Center off of PA 271 (William Penn Ave)	East Taylor	Public Survey	Local Coordi- nated Plan	Project	Low
Repave Old PA 53	Repave Old PA 53 for vehicles, but also a biking/walking trail.	Croyle	Public Survey	Maintenance	Project	Low
Bus Stop (Gerry Ln and Bedford St)	Gerry Ln and Bedford St Bus Stop	Geistown	Public Survey	Local Coordi- nated Plan	Project	Low

MULTIMODAL PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Bus Stop (Hiram G Andrews Center)	Hiram G Andrews Center	Upper Yoder	Public Survey	Local Coordi- nated Plan	Project	Low
Accessibility along High St	Provide increased accessibility from the apartments into town.	Ebensburg	Public Survey	Ebensburg Complete Streets Evalu- ation	Project	Low
Bus Stop at the Vinco Shopping Center off of William Penn Ave (PA 271)	Bus Stop at the Vinco Shopping Center off of PA 271 (William Penn Ave)	Jackson	Public Survey	Local Coordi- nated Plan	Project	Low
Expand Service in North Cambria	Difficult to get to upper part of county with public transport	Clearfield	Public Survey	Local Coordi- nated Plan	Study	Low
Bus Service Area	Increase footprint of public transportation to allow better access for employees of local businesses.	Johnstown	Public Survey	Local Coordi- nated Plan	Study	Low
Patton and Carrolltown Area Walkability Improvements	Need walking trails in Patton and Carrolltown area.	Clearfield	Public Survey	Active Trans- portation Plan	Study	Low
Richland/Geistown Bus Shuttle	"Maybe a shuttle around Richland/Geistown to go to the mall, groceries on Scalp, Wal Mart area, etc.	Richland	Public Survey	Local Coordi- nated Plan	Study	Low
Rural Bus Service Area	Limited public transportation in all rural areas of the County	Barr	Public Survey	Local Coordi- nated Plan	Study	Low
Fixed Route Service in Portage	Limited fixed route	Portage	Public Survey	Local Coordi- nated Plan	Study	Low
Richland Bus Service Area Study	Need more buses than run to PHCC and UPJ, to shopping, and around Richland.	Richland	Public Survey	Local Coordi- nated Plan	Study	Low
Increase Bus Service Frequency	CamTran needs to increase days of operation.	Cambria	Public Survey	Local Coordi- nated Plan	Study	Low
Fixed Route Service into South Fork	No fixed route	South Fork	Public Survey	Local Coordi- nated Plan	Study	Low

MULTIMODAL PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Scalp Avenue (PA 56) and Bedford St (PA 756) Sidewalk Improvements	Sidewalk improvements along Scalp Ave and Bedford Street in Geistown and Richland	Johnstown	Public Survey	Active Trans- portation Plan	Not an LRTP Project	Medium
Roosevelt Blvd (PA 56) Sidewalk Improvements	Walking on Roosevelt Blvd (PA 56) northern Johnstown dangerous and there are little to no sidewalks.	Johnstown	Public Survey	Downtown Johnstown Complete Streets	Not an LRTP Project	Medium
Scalp Avenue (PA 56) Sidewalk Improvements	No sidewalk or pedestrian crossing.	Richland	Public Survey	Bicycle and Pedestrian Safety Study on Scalp Ave	Not an LRTP Project	Medium
Franklin St (PA 403) Sidewalk Improvements	Sidewalk Improvements on Franklin St (PA 403)	Johnstown	Public Survey	Active Trans- portation Plan	Not an LRTP Project	Medium
Goucher Street Sidewalk Improvements	There is not a sidewalk on Goucher Street from Keppler Dr to the intersection on Menoher Blvd.	Upper Yoder	Public Survey	Active Trans- portation Plan	Not an LRTP Project	Medium
University of Pittsburgh Johnstown Bike/Pedestrian Improvements	Few sidewalks or crosswalks	Richland	Public Survey	Active Trans- portation Plan	Not an LRTP Project	Medium
Admiral Peary Highway (US 219) Bicycle/Pedestrian Improvements	Bicycle/Pedestrian Improvements Admiral Peary Highway (US 219)	Ebensburg	Public Survey	Active Trans- portation Plan	Not an LRTP Project	Medium
Sidewalk Improvements for ADA Accessibility	Sidewalks downtown are dangerous for wheelchair users	Richland	Public Survey	Active Trans- portation Plan	Not an LRTP Project	Medium
Scalp Avenue (PA 56) and Luther Rd Sidewalk Improvements	Sidewalk improvements on Scalp Avenue (PA 56) and Luther Rd to the US 219 S ramp Is not walkable	Richland	Public Survey	Active Trans- portation Plan	Not an LRTP Project	Medium

MULTIMODAL PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Downtown Johnstown Pedestrian Improvements	Sidewalks in Johnstown are broken, focus on rebuilding downtown by making it more pedestrian-friendly.	Johnstown	Public Survey	Downtown Johnstown Complete Streets	Not an LRTP Project	Medium
Bedford St (PA 756) Sidewalk Improvements	Sidewalks along Bedford Street in Richland/ Geistown.	Richland	Public Survey	Active Trans- portation Plan	Not an LRTP Project	Medium
Sidewalk Improvements West of Lilly	Cannot walk along roadways to nearest town to grocery store.	Munster	Public Survey	Active Trans- portation Plan	Not an LRTP Project	Medium
Bike Trails to Pittsburgh	Trail connection cross borders.	Washington	Public Survey	Active Trans- portation Plan	Not an LRTP Project	Medium
Transit Options to Pittsburgh Airport	No transit options to Pittsburgh airport		Public Survey	In Progress	Not an LRTP Project	Low
Transit Options (Walnut St)		Johnstown	Public Survey	Local Coordi- nated Plan	Not an LRTP Project	Low
Johnstown Amtrak Service	More Amtrak trains stop in Johnstown	Westmont	Public Survey	In Progress	Not an LRTP Project	Low
Bus Service on J Street in Johnstown	No bus service on J Street	Johnstown	Public Survey	Local Coordi- nated Plan	Not an LRTP Project	Low
Second Train to Pittsburgh	More trip options from Amtrak	Johnstown	Public Survey	In Progress	Not an LRTP Project	Low
Bus Stop at County Human Resources Services	County Human Resources Services Bus Stop	Ebensburg	Public Survey	Local Coordi- nated Plan	Not an LRTP Project	Low
Roadway Safety Signs	More signs needed to remind drivers to share the road.	Upper Yoder	Public Survey	Active Trans- portation Plan	Not an LRTP Project	Low
Increase passenger rail	Increase passenger rail and connecting service options.	Johnstown	STC	Local Coordi- nated Plan	Not an LRTP Project	Low

MULTIMODAL PROJECTS						
Project Name/Location	Project Description	Municipality	Source	Notes	Project/ Study	Priority
Wayfinding for Bus Stop Signs	Difficult for students to easily navigate to downtown locations and/or Amtrak/Greyhound/airport	Richland	Public Survey	Signage	Not an LRTP Project	Low
Wayfinding for Bus Stops in Lily	Unclear signage and direction	Lilly	Public Survey	Signage	Not an LRTP Project	Low
Camīran Service Schedule	Camīran bus stop doesn't start early enough in the morning and there is not weekend service.	Upper Yoder	STC	Local Coordi- nated Plan	Not an LRTP Project	Low
Improve Trailhead Signage Across the County	Improve Trailhead Signage Across the County	Richland	Public Survey	Signage	Not an LRTP Project	Low
Sidewalk Repair Downtown Johnstown	Downtown sidewalks are full of broken pavement and holes.	Johnstown	Public Survey	Maintenance Project	Not an LRTP Project	Low

## Appendix C: Transit TIP

Project	Project Title	Sponsor	FFY 2025	FFY 2026	FFY 2027	FFY 2028	Total
70579	Security / Oper Assist	CAMTRAN	\$10,612,000	\$11,143,000	\$11,699,000	\$10,256,000	\$43,710,000
70582	Purchase (veh/Equip)	CAMTRAN		800,000	800,000	800,000	2,400,000
70597	Capital Assistance - ADA	CAMTRAN	375,000	375,000	375,000	375,000	1,500,000
106960	Facility Improve rural	CAMTRAN		60,000			60,000
106963	Shop Tools-Equip-Incline	CAMTRAN		50,000	50,000	50,000	150,000
106964	Shp Tools & Equip - Rural	CAMTRAN	75,000	50,000	50,000	50,000	225,000
106966	Farebox System Urb/Rural	CAMTRAN	2,000,000				2,000,000
106967	Computer Upgrades	CAMTRAN	50,000	50,000	100,000	50,000	250,000
106982	Replace Op. Vehicle C-13	CAMTRAN		45,000		70,000	115,000
106985	Office Furniture & Equipm	CAMTRAN		40,000			40,000
111053	Shop Tools Equip - Urban	CAMTRAN	100,000	50,000	50,000	50,000	250,000
111055	Bus Replace - Urban #1	CAMTRAN		3,462,000		2,083,000	5,545,000
111056	Bus Mid-Life Overhaul	CAMTRAN		1,250,000			1,250,000
115302	Replace Tech Equip Rural	CAMTRAN		12,000		12,000	24,000
115303	Security improvements	CAMTRAN		72,000	24,000	24,000	120,000
116038	Facility Imp/ inc - SOGR	CAMTRAN	27,000	27,000	27,000	27,000	108,000
116561	Reseal Park Lot Ebensburg	CAMTRAN		16,000			16,000
116563	Ebensburg blding improvem	CAMTRAN	2,500,000				2,500,000
116564	Reseal Parking Lot Jtown	CAMTRAN			15,000		15,000
118266	Vehicle/Equip. & Facility	CAMTRAN	800,000				800,000
118267	Bus Replace Rural Div. #2	CAMTRAN			393,000		393,000

Project	Project Title	Sponsor	FFY 2025	FFY 2026	FFY 2027	FFY 2028	Total
118270	Bus Replace Rural Div. #3	CAMTRAN			655,000		655,000
118271	Replace Vehicles Urban #3	CAMTRAN			50,000		50,000
118272	Replace Op. Vehicles Urb.	CAMTRAN			180,000		180,000
119573	Bus Replacement-Rural	CAMTRAN		752,000	564,000		1,316,000
121432	Replace Gasoline Shared-R	CAMTRAN		330,000	655,000		985,000
121433	Replace Operations Vehicl	CAMTRAN			100,000		100,000
121434	Replace Buses C-171, C-17	CAMTRAN			600,000		600,000
121435	Johnstown Final Solar	CAMTRAN			1,000,000		1,000,000
	Totals for: Cambria County Trar	sit Authority/CAMTRAN	\$16,539,000	\$18,584,000	\$17,387,000	\$13,847,000	\$66,357,000

# Appendix D: Disposition of Comments Received on the LRTP

To be inserted following public comment period

## Appendix E: Performance Reports

#### **2022 Performance Measures Annual Report -- Pavements**

#### **Johnstown**

2022 MAP-21 Pavement Performance by Business Plan Network (Based on Total PA Lane Miles\*)

MAP-21 Pavement	Go	ood	Fa	air	Po	or	Missing	(Max 5%)
Performance Measures	Lane		Lane		Lane		Lane	
	Miles	%	Miles	%	Miles	%	Miles	%
Interstate	ı	-	•	-	ı	-	-	-
NHS, Non-Interstate	90.6	26.12%	252.8	72.87%	3.5	1.01%	5.1	1.46%
MAP-21 Pavement		Go	od		Poor			
Performance Measure	2023	2024	2025	2026	2023	2024	2025	2026
Targets	Target	Target						
Interstate	-	-	-	-	-	-	-	-
						2%	2%	2%

- MAP-21 pavement performance measures required for FHWA reporting include four distress components which translate to good, fair, or poor condition scores. See table on reverse of this page for distress and thresholds.
   Three conditions apply to each pavement type.
- · A pavement 10th mile section is considered in good condition if all three distress components are rated as good. A pavement 10th mile section is considered in poor condition if two or more of its three distress components are rated as poor.
- · FHWA requires that no more than 5 percent of a state's NHS Interstate lane-miles be in poor condition. Additionally, state DOTs are required to establish targets.
- · FHWA has not established a minimum condition for NHS non-Interstate roadways, but requires the state DOT to establish targets.
- · FHWA requires that no more than 5 percent of a state's mileage be unreported or missing.
- · Conditions are assessed and analyzed for pavement "sections" that cannot exceed 0.10 miles in length, which differs from PennDOT's historic segment level data.
- · MAP-21 performance measures apply to all Interstate and NHS Non-Interstate miles in PA, regardless of ownership. Therefore, PA Turnpike and local-owned miles are in Statewide totals, but not in each District's totals. Local-owned miles are included in MPO/RPO totals as appropriate.
- MAP-21 rulemaking requires that states develop and implement a risk-based asset management plan to achieve and sustain a state of good repair over the life
  cycle of transportation assets and to improve or preserve the condition of the NHS. Asset Management encompasses two related means of doing so: making
  infrastructure last as long as reasonably possible, and keeping up on preservation activities to minimize costlier major repairs. Together, these practices extend the
  life of assets and reduce the cost of maintaining them in the desired state of good repair. This is known as operating the network at the lowest life-cycle cost (LLCC).
- · MAP-21 performance measures are not to drive planning and programming, but rather be an indication of performance achieved by states operating at the LLCC.

#### 2022 Pavement Smoothness (IRI) Summary by Business Plan Network (Based on PennDOT Segment Miles)

Business Plan	Exce	llent	Go	Good		Fair		Poor		Tested
Network	Seg-Mi	%	Seg-Mi	%	Seg-Mi	%	Seg-Mi	%	IRI	Seg-Mi
Interstate	-	-	-	-	-	-	-	-	-	-
NHS, Non-Interstate	61.0	35.28%	78.0	45.12%	24.9	14.41%	9.0	5.19%	86	172.9
Non-NHS, <u>&gt;</u> 2000 ADT	54.9	31.18%	82.7	46.96%	24.9	14.15%	13.6	7.71%	114	176.0
Non-NHS, < 2000 ADT	76.5	19.70%	118.2	30.45%	109.0	28.06%	84.7	21.80%	169	388.4
Total - Roadway	192.4	26.09%	278.9	37.83%	158.8	21.54%	107.2	14.54%	131	737.3

#### 2022 Overall Pavement Index (OPI) Summary by Business Plan Network (Based on PennDOT Segment Miles)

Business Plan	Excellent		Good		Fa	nir	Po	or	Median
Network	Seg-Mi	%	Seg-Mi	%	Seg-Mi	%	Seg-Mi	%	OPI
Interstate	-	ı	ı	-	ı	-	1	-	-
NHS, Non-Interstate	2.2	1.28%	115.5	67.44%	45.7	26.66%	7.9	4.61%	83
Non-NHS, <u>&gt;</u> 2000 ADT	33.4	19.05%	82.9	47.37%	55.4	31.64%	3.4	1.94%	84
Non-NHS, < 2000 ADT	99.1	25.52%	183.9	47.38%	89.4	23.04%	15.8	4.06%	77
Total - Roadway	134.6	18.33%	382.3	52.06%	190.5	25.93%	27.0	3.68%	81

#### Total Miles

PennDOT	PA Lane
Seg-Mi	Miles
-	-
174.0	352.1
177.0	
389.2	
740.2	

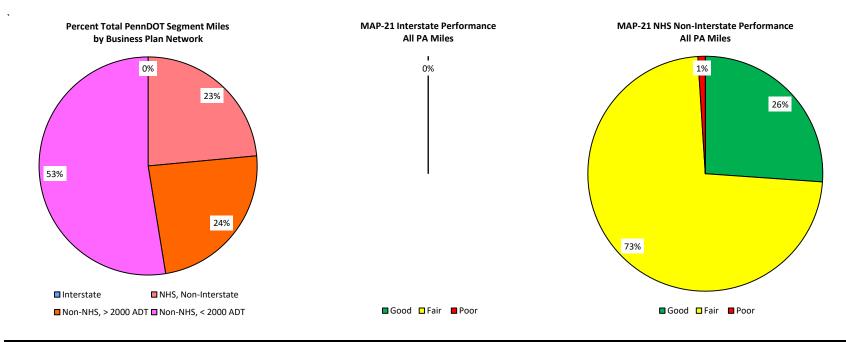
- · The IRI and OPI data presented herein is segment level.
- · For the Interstate and NHS, Non-Interstate Business Plan Networks, the IRI and OPI data is for 2022. For the Non-NHS Business Plan Networks, the IRI and OPI data for most recent year captured, either 2021 or 2022.
- PennDOT has historically classified Good Interstate IRI as <100, and Poor Interstate IRI as >150; for NHS Non-Interstate, Good is <120 and Poor is >170. This practice is maintained in the IRI data presented herein, but differs from the MAP-21 definitions defined in the table on the reverse of this page.

#### 2022 Out-Of-Cycle (OOC) Assessment by Business Plan Network (Based on PennDOT Segment Miles)

	High	Level	Low Level							
Business Plan	Bitum	Bituminous Bituminous			Bituminous			Cond	crete	
Network	Seg-Mi	OOC Mi <sup>1</sup>	Seg-Mi	OOC Mi <sup>2</sup>	OOC Mi <sup>3</sup>	Total	Seg-Mi	OOC Mi <sup>4</sup>	OOC Mi <sup>5</sup>	Total
Interstate	-	-	-	-	-	-	-	-	-	-
NHS, Non-Interstate	171.19	102.95	0.00	0.00	0.00	0.00	19.26	17.30	4.27	21.57
Non-NHS, <u>&gt;</u> 2000 ADT	109.67	76.68	66.43	33.21	8.42	41.63	2.41	1.93	1.42	3.34
Non-NHS, < 2000 ADT	33.50	20.39	350.83	55.78	63.29	119.07	0.56	0.29	0.36	0.64
Total - Roadway	314.37	200.02	417.26	88.99	71.71	160.70	22.23	19.51	6.04	25.56

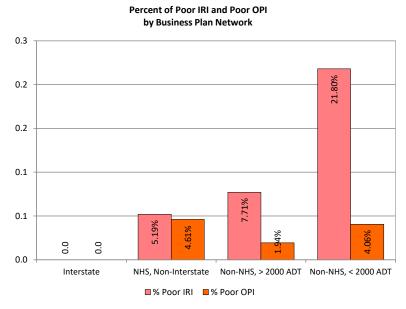
- · Out-Of-Cycle Categories:
  - 1 High Level Bituminous Pavement with Age > 12 Years or > 17 Years with Interim Surface Seal
  - 2 Low Level Bituminous Surface with Age > 7 Years
  - 3 Low Level Bituminous Pavement with Age > 20 Years or no Structural Layers
  - 4 Concrete Pavements with Age > 30 Years
  - 5 Concrete Pavements with Age > 20 Years and No Concrete Pavement Restoration (CPR)
- · Total Low Level OOC represents the miles that are OOC for either Category 2 or 3. Segments that are OOC for both categories are not double counted. Total Concrete OOC represents the miles that are OOC for either Category 4 or 5. Segments that are OOC for both categories are not double counted.

The IRI miles and Total PennDOT miles include bridge lengths.
 The Total PA miles, used for MAP-21, do not include bridge lengths.
 The Treatment Network miles do not include bridge lengths.

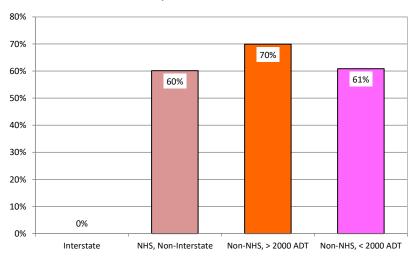


**MAP-21 Pavement Conditions and Thresholds** 

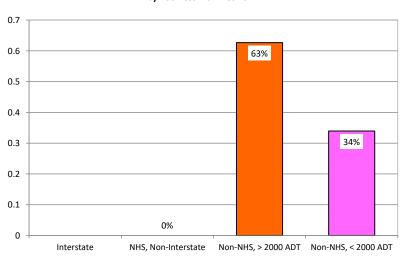
Rating	Good	Fair	Poor
IRI (inches/mile)	<95	95–170	>170
		CRCP: 5-10	CRCP: >10
Cracking Percentage	<5	Jointed: 5–15	Jointed: >15
		Asphalt: 5–20	Asphalt: >20
Rutting (inches)	<0.20	0.20-0.40	>0.40
Faulting (inches)	<0.10	0.10-0.15	>0.15



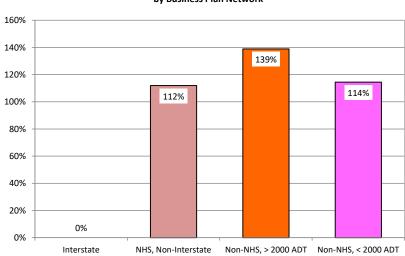
### Percent of High Level Bituminous Miles Out-Of-Cycle by Business Plan Network



Percent of Low Level Bituminous Miles Out-Of-Cycle by Business Plan Network



Percent of Concrete Miles Out-Of-Cycle by Business Plan Network



2018-MPO/RPO, 6/16/2023

#### **End of Calendar Year 2022 Performance Measures Annual Report -- Bridges**

**Johnstown** 

#### MAP-21 Bridge Performance (Based on all NHS Bridge Owners Greater than or Equal to 20' in Length)

MAP-21 Bridge Performance Measure												
	Good				Fair				Poor			
	Deck Area Deck Area				Deck Area Deck Area				Deck Area	Deck Area		
	Count	Count %	(Msf)	%	Count	Count %	(Msf)	%	Count	Count %	(Msf)	%
Interstate (Including Ramps)	0	0.00%	0.000	0.00%	0	0.00%	0.000	0.00%	0	0.00%	0.000	0.00%
NHS, Non-Interstate	21	34.43%	0.157	20.84%	39	63.93%	0.571	75.63%	1	1.64%	0.027	3.53%
Total NHS	21	34.43%	0.157	20.84%	39	63.93%	0.571	75.63%	1	1.64%	0.027	3.53%

	Map-21 Goal	End of Year 2022 Value	2021 Target	2023 Target	2025 Target
Total NHS Deck Area Poor %	10.00%	3.53%	4.25%	5.00%	5.00%

	Count	Deck Area (Msf)
Interstate (Including Ramps)	0	0.000
NHS, Non-Interstate	61	0.756
Total NHS	61	0.756

- · MAP-21 bridge data is assessed and analyzed by National Bridge Inventory Standards (Bridges 20' and greater), which differs from PennDOT's 8' and greater reporting.
- · MAP-21 performance measures apply to all Interstate and NHS Non-Interstate bridges in PA, regardless of ownership. Therefore, PA Turnpike and local-owned bridges are included in totals.
- MAP-21 bridge performance measures required for FHWA reporting include good, fair, or poor condition scores for each bridge.
   End of Calendar Year 2022 Status of Bridges in Region (Based on 8' and greater)
   fair if the minimum condition rating is 6 or 5, and poor if the minimum condition rating is 4 or less.
- FHWA requires that no more than 10 percent of a state's total NHS Bridge Deck Area be in poor condition. Additionally, state DOTs are required to establish biennial targets for poor deck area.
- · FHWA has not established a minimum condition for Interstate only bridges or NHS non-Interstate bridges, but requires the state DOT to establish targets.
- FHWA requires that no more than 5 percent of a state's bridge data be unreported or missing.
- MAP-21 rulemaking requires that states develop and implement a risk-based asset management plan to achieve and sustain a state of good repair over the life
  cycle of the asset to improve or preserve the condition of the NHS. Asset Management encompasses two related means of doing so: making
  infrastructure last as long as reasonably possible through keeping up on preservation activities to minimize costlier major repairs, and utilizing a structure for its
  entire service life. These practices allow the department to operate to lowest life cycle cost (LLCC) on the network level.

· MAP-21 performance measures are not to explicitly drive planning and programming, but rather be an indication of performance achieved by states operating at the LLCC.

Business Plan Network	Total Bridge Count	Total Deck Area (Msf)	Aver. Bridge DA (sf)	Closed Bridges	Posted Bridges	Poor Count	•		% Poor by Deck Area	with a "5" Condition
State <a>8'</a> ; Interstate/Ramps	0	0.0000	0	0	0	0	0.00%	0.0000	0.00%	0
State <u>&gt;</u> 8'; NHS (non-Interstate)	93	0.7742	8,324	0	0	2	2.15%	0.0272	3.51%	16
State <a>&gt;8'; non-NHS &gt; 2000 ADT</a>	84	0.3192	3,800	0	0	4	4.76%	0.0417	13.06%	10
State <a>&gt;8'; non-NHS &lt; 2000 ADT</a>	156	0.3131	2,007	0	3	5	3.21%	0.0064	2.04%	30
Total - State Bridges ( <u>&gt;</u> 8')	333	1.4065	4,224	0	3	11	3.30%	0.0753	5.35%	56
Local <u>&gt;</u> 20'	87	0.1847	2,123	1	9	15	17.24%	0.0174	9.43%	31

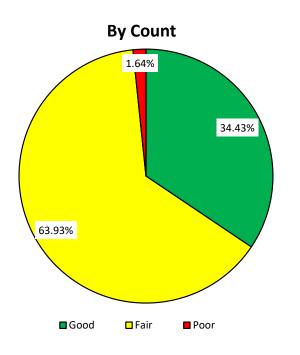
Reducing Rate of Deterioration through Investment (Non-Replacement) (Based on 8' and greater)

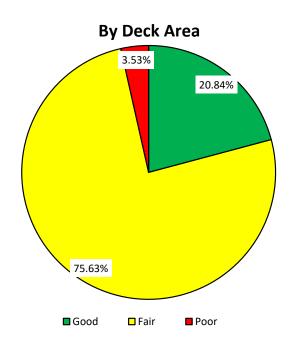
Business Plan Network	Annual New Poor Count (Poor "on")	Annual New Poor Count (Poor "off")	Annual New Poor DA (Poor "on")	Annual New Poor DA (Poor "off")	Preservation (million\$)	Preservation (#bridges)
State <a>8'; Interstate/Ramps</a>	0	0	0.00%	0.00%	\$0.00	0
State <a>&gt;8'; NHS (non-Interstate)</a>	0	0	0.00%	0.00%	\$0.00	0
State <a>8</a> '; non-NHS > 2000 ADT	2	0	0.16%	0.00%	\$1.35	3
State <a>&gt;8'; non-NHS &lt; 2000 ADT</a>	1	0	0.16%	0.00%	\$6.06	4
Total - State Bridges (≥8')	3	0	0.07%	0.00%	\$7.41	7
Local>20'	0	2	0.00%	2.56%	\$0.00	0

**2022** Performance Measures Annual Report -- Bridges

**Johnstown** 

MAP-21 Bridge Performance (Based on all NHS Bridge Owners Greater than or Equal to 20' in Length)

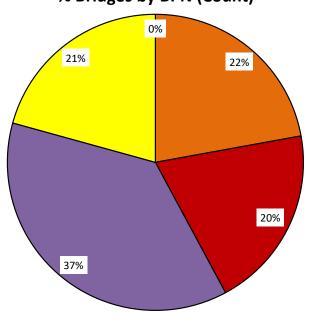




#### End of Calendar Year 2022 Status of Bridges in Region (Based on 8' and greater)

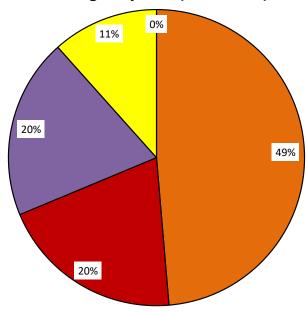
PennDOT Data 8' and Greater By Business Plan Network

#### % Bridges by BPN (Count)

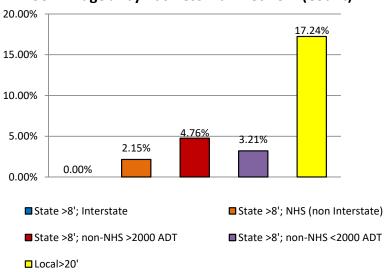


PennDOT Data 8' and Greater By Business Plan Network

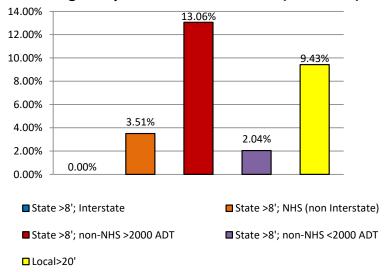
#### % Bridges by BPN (Deck Area)







#### Poor Bridge % by Business Plan Network (Deck Area)



# Appendix F: Air Quality Conformity Analyses and Adopting Resolution

### **Air Quality Conformity Analysis Report**

Johnstown Area Transportation Study (JATS) 2025-2028 Transportation Improvement Program (TIP) and 2050 Long Range Transportation Plan (LRTP)

#### National Ambient Air Quality Standards (NAAQS) Addressed:

- 1997 8-Hour Ozone Maintenance Area
- 2006 24-Hour PM<sub>2.5</sub> Maintenance Area

#### **Prepared by:**

Johnstown Area Transportation Study and Pennsylvania Department of Transportation

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#### **Summary of Attachments**

Attachment A: Project List

**Attachment B**: Detailed Emission Results **Attachment C**: Sample MOVES Input Files

#### **Overview**

This report provides an analysis of the air quality implications of the current Johnstown Area Transportation Study (JATS) Metropolitan Planning Organization (MPO) 2025-2028 Transportation Improvement Program (TIP) and 2050 Long Range Transportation Plan (LRTP). The analysis demonstrates transportation conformity under the 1997 8-hour ozone National Ambient Air Quality Standard (NAAQS) and the 2006 24-hour fine particulate (PM<sub>2.5</sub>) NAAQS. The air quality conformity determination reflects an assessment of the regionally significant, non-exempt transportation projects included in both the current TIP and recently updated LRTP.

This document replaces the previously approved conformity demonstration of the TIP and LRTP, and ensures that the findings meet all current criteria established by the U.S. Environmental Protection Agency (EPA) for the applicable NAAQS.

#### **Background on Transportation Conformity**

Transportation conformity is a way to ensure that federal funding and approval are awarded to transportation activities that are consistent with air quality goals. Under the Clean Air Act (CAA), transportation and air quality modeling procedures must be coordinated to ensure that the TIP and the LRTP are consistent with the area's applicable State Implementation Plan (SIP). The SIP is a federally approved and enforceable plan by which each area identifies how it will attain and/or maintain the health-related primary and welfare-related secondary NAAQS.

In order to receive transportation funding and approvals from the Federal Highway Administration (FHWA) or the Federal Transit Administration (FTA), state and local transportation agencies must demonstrate that the plans, programs, or projects meet the transportation conformity requirements of the CAA as set forth in the transportation conformity rule. Under the transportation conformity rule, transportation plans are expected to conform to the applicable SIP in nonattainment or maintenance areas. The integration of transportation and air quality planning is intended to ensure that transportation plans, programs, and projects will not:

- Cause or contribute to any new violation of any applicable NAAQS.
- Increase the frequency or severity of any existing violation of any applicable NAAQS.
- Delay timely attainment of any applicable NAAQS, any required interim emissions reductions, or other NAAQS milestones.

The transportation conformity determination includes an assessment of future highway emissions for defined analysis years, including the end year of the LRTP. Emissions are estimated using the latest available planning assumptions and available analytical tools, including EPA's latest approved on-highway mobile sources emissions model, the Motor Vehicle Emission Simulator (MOVES). The conformity determination provides a tabulation of the analysis results for applicable precursor pollutants, showing that the required conformity test was met for each analysis year.

#### **Report Contents**

This document includes a summary of the methodology and data assumptions used for the conformity analysis. As shown in **Exhibit 1**, attachments containing additional detail have been provided with the document. In addition, modeling input and output files have been reviewed by the Environmental Protection Agency (EPA) Region III and the Pennsylvania Department of Environmental Protection (DEP).

**Attachment** Title Description Provides a list of regionally significant highway projects Α Project List that have been updated or added to the TIP and LRTP. **Detailed Emission** Provides a detailed summary of emissions by roadway В Results type. **MOVES Sample** Provides example MOVES data importer (XML) and run C **Run Specification** specification (MRS) files.

**EXHIBIT 1: SUMMARY OF ATTACHMENTS** 

#### **National Ambient Air Quality Standard Designations**

The CAA requires the EPA to set NAAQS for pollutants considered harmful to public health and the environment. A nonattainment area is any area that does not meet the primary or secondary NAAQS. Once a nonattainment area meets the standards and additional redesignation requirements in the CAA [Section 107(d)(3)(E)], EPA will designate the area as a maintenance area.

Cambria County is currently included in the *Johnstown, PA* maintenance area under both the 1997 8-hour ozone NAAQS and the 2006 24-hour PM<sub>2.5</sub> NAAQS. Cambria County is in attainment for all other current NAAQS. Transportation conformity requires nonattainment and maintenance areas to demonstrate that all future transportation projects will not prevent an area from reaching its air quality attainment goals.

#### **Final Particulate Matter**

Fine particulate matter (PM<sub>2.5</sub>) can be emitted directly into the atmosphere (sources include exhaust and dust from brake and tire wear) or formed in the atmosphere by combinations of precursor pollutants (secondary formation). Sulfates and nitrates are two types of pollutants that contribute to secondary formation. Sulfate emissions are a result of power plant and industry emissions, while nitrate emissions result from automobiles, power plants, and other combustion sources. Scientific studies have shown a significant correlation between exposure to fine particulates and severe health issues such as heart disease, lung disease, and premature death.

The pollutants that could be analyzed in the conformity analysis are: [1] direct PM<sub>2.5</sub> emissions (tail pipe emissions, brake and tire wear), [2] re-entrained road dust, and [3] precursors nitrogen oxides (NO<sub>X</sub>), volatile organic compounds (VOC), sulfur oxides (SO<sub>X</sub>) and ammonia (NH<sub>3</sub>). The EPA has ruled that until the EPA or DEP find that other precursor pollutants are significant contributors, and a SIP revision is

approved stating such findings, direct  $PM_{2.5}$  emissions and NOx are the only pollutants that must be analyzed for transportation conformity (40 CFR 93.119(f)(8)–(10)).

#### 1997 Annual PM<sub>2.5</sub> and 2006 24-hour PM<sub>2.5</sub> Standards

The EPA published the 1997 annual PM<sub>2.5</sub> NAAQS on July 18, 1997, (62 FR 38652), with an effective date of September 16, 1997. An area is in nonattainment of this standard if the 3-year average of the annual mean PM<sub>2.5</sub> concentrations (for designated monitoring sites within an area) exceed 15.0 micrograms per cubic meter ( $\mu$ g/m³). Cambria County was designated as part of the Johnstown nonattainment area under the 1997 annual PM<sub>2.5</sub> NAAQS, effective April 5, 2005 (70 FR 944).

The EPA published the 2006 24-hour PM<sub>2.5</sub> NAAQS on October 17, 2006, (71 FR 61144), with an effective date of December 18, 2006. The rulemaking strengthened the 1997 24-hour standard of 65  $\mu$ g/m³ (62 FR 38652) to 35  $\mu$ g/m³ and retained the 1997 annual PM<sub>2.5</sub> NAAQS of 15  $\mu$ g/m³. An area is in nonattainment of the 2006 24-hour PM<sub>2.5</sub> NAAQS if the 98<sup>th</sup> percentile of the annual 24-hour concentrations, averaged over three years, is greater than 35  $\mu$ g/m³. Cambria County was designated as a nonattainment area as part of the Johnstown nonattainment area under the 2006 24-hour PM<sub>2.5</sub> NAAQS, effective December 14, 2009 (74 FR 58688).

A redesignation request and maintenance plan applicable to both the 1997 annual and 2006 24-hour PM<sub>2.5</sub> NAAQS was approved by EPA and effective July 16, 2015 (80 FR 42046). The maintenance plan includes 2017 and 2025 PM<sub>2.5</sub> and NOx mobile vehicle emission budgets (MVEBs) for transportation conformity purposes.

EPA took final action on the "Fine Particulate Matter National Ambient Air Quality Standards: State Implementation Plan Requirements" rule on August 24, 2016 (81 FR 58010 effective on October 24, 2016). In that rulemaking, EPA finalized the option that revokes the 1997 primary annual PM<sub>2.5</sub> NAAQS in areas that are designated as attainment or maintenance of that NAAQS. After revocation, areas no longer have to expend resources on CAA air quality planning and conformity determination requirements associated with the 1997 annual PM<sub>2.5</sub> NAAQS.

#### 2012 Annual PM<sub>2.5</sub> Standard

The EPA published the 2012 annual PM<sub>2.5</sub> NAAQS on January 15, 2013, (78 FR 3086), with an effective date of March 18, 2013. The EPA revised the annual PM<sub>2.5</sub> NAAQS by strengthening the standard from 15  $\mu$ g/m<sup>3</sup> to 12  $\mu$ g/m<sup>3</sup>. An area is in nonattainment of this standard if the 3-year average of the annual mean PM<sub>2.5</sub> concentrations for designated monitoring sites in an area is greater than 12.0  $\mu$ g/m<sup>3</sup>. On December 18, 2014, EPA issued final designations for the standard that were revised on April 7, 2015 (80 FR 18535). Cambria County was designated in attainment of this standard.

### 2024 Annual PM<sub>2.5</sub> Standard

On February 7, 2024, EPA strengthened the annual PM2.5 standard at 9.0  $\mu g/m^3$  to provide increased public health protection, consistent with the available health science. The nonattainment areas have not been designated yet for this new standard.

#### **Ozone**

Ozone is formed by chemical reactions occurring under specific atmospheric conditions. Precursor pollutants that contribute to the formation of ozone include VOC and  $NO_X$ , both of which are components of vehicle exhaust. VOCs may also be produced through the evaporation of vehicle fuel, as well as by displacement of vapors in the gas tank during refueling. By controlling VOC and  $NO_X$  emissions, ozone formation can be mitigated.

### 1997 and 2008 8-hour Ozone NAAQS

The EPA published the 1997 8-hour ozone NAAQS on July 18, 1997, (62 FR 38856), with an effective date of September 16, 1997. An area was in nonattainment of the 1997 8-hour ozone NAAQS if the 3-year average of the individual fourth highest air quality monitor readings, averaged over 8 hours throughout the day, exceeded the NAAQS of 0.08 parts per million (ppm). On May 21, 2013, the EPA published a rule revoking the 1997 8-hour ozone NAAQS, for the purposes of transportation conformity, effective one year after the effective date of the 2008 8-hour ozone NAAQS area designations (77 FR 30160).

The EPA published the 2008 8-hour Ozone NAAQS on March 27, 2008, (73 FR 16436), with an effective date of May 27, 2008. EPA revised the ozone NAAQS by strengthening the standard to 0.075 ppm. Thus, an area is in nonattainment of the 2008 8-hour ozone NAAQS if the 3-year average of the individual fourth highest air quality monitor readings, averaged over 8 hours throughout the day, exceeds the NAAQS of 0.075 ppm. Cambria County was designated as an attainment area under the 2008 8-hour ozone NAAQS, effective July 20, 2012 (77 FR 30088). As a result, transportation conformity is not required for the standard.

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 national ambient air quality standard (NAAQS) and attainment for the 2008 ozone NAAQS when the 1997 ozone NAAQS was revoked. These conformity determinations are required in these areas after February 16, 2019. Cambria County was maintenance at the time of the 1997 ozone NAAQS revocation on April 6, 2015 and was also designated attainment for the 2008 ozone NAAQS on May 21, 2012. Therefore, per the *South Coast II* decision, this conformity determination is also being made for the 1997 ozone NAAQS.

#### 2015 8-hour Ozone NAAQS

In October 2015, based on its review of the air quality criteria for ozone and related photochemical oxidants, the EPA revised the primary and secondary NAAQS for ozone to provide requisite protection of public health and welfare, respectively (80 FR 65292). The EPA revised the levels of both standards to 0.070 ppm, and retained their indicators, forms (fourth-highest daily maximum, averaged across three consecutive years) and averaging times (eight hours). On April 30, 2018, EPA completed area designations, and Cambria County was designated as an attainment area for the standard.

## **Interagency Consultation**

As required by the federal transportation conformity rule, the conformity process includes a significant level of cooperative interaction among federal, state, and local agencies. For this air quality conformity analysis, interagency consultation was conducted as required by the Pennsylvania Conformity SIP. This included conference call(s) or meeting(s) of the Pennsylvania Transportation-Air Quality Work Group (including the Pennsylvania Department of Transportation (PennDOT), DEP, EPA, FHWA, FTA and representatives from larger MPOs within the state). Meetings and conference calls are conducted quarterly. The meeting on February 7, 2024 included the review all planning assumptions, methodologies and analysis years for the conformity determination.

## **Analysis Methodology and Data**

This transportation conformity analysis was conducted using EPA's MOVES model, which is the official model for estimating emissions from highway vehicles for SIP emission inventories and transportation conformity (75 FR 9411. MOVES3 has been used for this conformity determination and is (in addition to MOVES4) currently considered one of the latest approved model versions for SIP and transportation conformity purposes (88 FR 32167). After September 12, 2025, MOVES4 must be used for conformity determinations.

Planning assumptions are updated following EPA and FHWA joint guidance (EPA420-B-08-901) that clarifies the implementation of the latest planning assumption requirements in 40 CFR 93.110. This analysis utilizes the latest available traffic, vehicle fleet and environmental data to estimate regional highway emissions.

PennDOT updates many of the key planning assumptions on a triennial basis to support EPA's National Emissions Inventory (NEI) and FHWA's latest planning assumption requirements for transportation conformity. The PennDOT triennial data update is typically used to inform the planning assumptions for the future analysis years used for transportation conformity.

Due to the impacts that COVID has had on the vehicle fleet turnover, PennDOT, in coordination with the Pennsylvania Air Quality Workgroup, has determined that the estimates of the vehicle fleet age for the most recent available data (2020-2022) may not be reflective of future conditions or longer term trends.

Thus, the vehicle age assumption relied on previous planning assumptions used for past conformity analyses.

All other data assumptions for the conformity analysis relied on the latest available planning assumptions or national/local defaults consistent with methods used for past conformity analyses and EPA's technical guidance. This includes information and characteristics related to fuels, inspection maintenance (I/M) program parameters, heavy-truck long duration idling, and environmental data (e.g. temperatures and humidity).

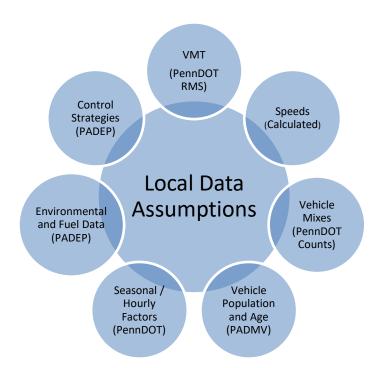
The analysis methodology and data inputs for this analysis were developed through interagency consultation and used available EPA guidance documents that included:

- Policy Guidance on the Use of MOVES3 for State Implementation Plan Development, Transportation Conformity, General Conformity, and Other Purposes, US EPA Office of Transportation and Air Quality, EPA-420-B-20-044, November 2020.
- MOVES3 Technical Guidance: Using MOVES to Prepare Emission Inventories for State Implementation Plans and Transportation Conformity, US EPA Office of Transportation and Air Quality, EPA-420-B-20-052, November 2020.

A mix of local and national default (internal to MOVES) data are used in the analysis. As illustrated in **Exhibit 2**, local data has been used for data items that have a significant impact on emissions, including: vehicle miles of travel (VMT), vehicle population, congested speeds, and vehicle type mix, as well as environmental and fuel assumptions. Local data inputs to the analysis process reflect the latest available planning assumptions using information obtained from PennDOT, DEP and other local/national sources.

The methodology used for this analysis is consistent with the methodology used to develop SIP inventories. This includes the use of custom post-processing software (PPSUITE) to calculate hourly speeds and prepare key traffic input files to the MOVES emission model. PPSUITE consists of a set of programs that perform the following functions:

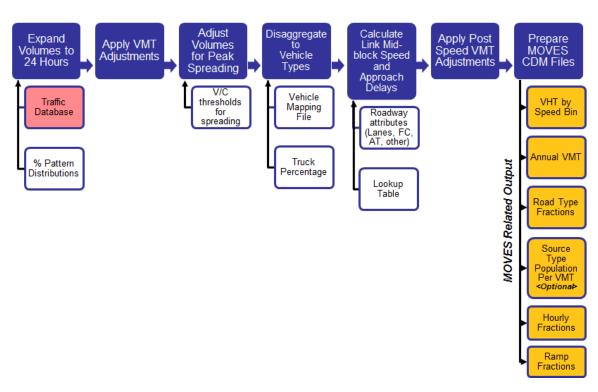
- Analyzes highway operating conditions.
- Calculates highway speeds.
- Compiles VMT and vehicle type mix data.
- Prepares MOVES runs and processes MOVES outputs.



**EXHIBIT 2: LOCAL DATA INPUTS USED FOR CONFORMITY RUNS** 

PPSUITE is a widely used and accepted tool for estimating speeds and processing emissions rates. The PPSUITE tool has been used for developing on-highway mobile source inventories in SIP revisions, control strategy analyses, and conformity analyses in other states. The software was developed to utilize accepted transportation engineering methodologies. The PPSUITE process is integral to producing traffic-related input files to the MOVES emission model. **Exhibit 3** summarizes the key functions of PPSUITE within the emission calculation process. Other MOVES input files are prepared externally to the PPSUITE software, including vehicle population, vehicle age, environmental and fuel input files.

The CENTRAL software is also used in this analysis. CENTRAL is a menu-driven software platform that executes the PPSUITE and MOVES processes in batch mode. The CENTRAL software allows users to execute runs for a variety of input options and integrates custom MySQL steps into the process. CENTRAL provides important quality control and assurance steps, including file naming and storage automation.



**EXHIBIT 3: EMISSION CALCULATION PROCESS** 

### **Key MOVES Input Data**

A large number of inputs to MOVES are needed to fully account for the numerous vehicle and environmental parameters that affect emissions. These inputs include traffic flow characteristics, vehicle descriptions, fuel parameters, I/M program parameters and environmental variables. MOVES includes a default national database of meteorology, vehicle fleet, vehicle activity, fuel and emission control program data for every county; EPA, however, cannot certify that the default data is the most current or best available information for any specific area. As a result, local data, where available, is recommended for use when conducting a regional conformity analysis. A mix of local and default data is used for this analysis. These data items are discussed in the following sections.

### **Roadway Data**

The roadway data inputs to emissions calculations for this conformity analysis are based on information from the RMS database maintained by PennDOT's Bureau of Planning and Research (BPR). PennDOT obtains this information from periodic visual and electronic traffic counts. RMS data is dynamic, since it is continually reviewed and updated from new traffic counts and field visits conducted by PennDOT. Information on roadways included in the USDOT National Highway System is reviewed, at minimum, on an annual basis, while information on other roadways is reviewed at least biennially. On a triennial basis, a current "snapshot" of the RMS database is taken and downloaded to provide an updated record of the Commonwealth's highway system for estimating emissions. The RMS database contains all state highways, including the Pennsylvania Turnpike, divided into segments approximately 0.5 miles in length.

These segments are usually divided at important intersections or locations where there is a change in the physical characteristics of the roadway (e.g. the number of lanes changes). There are approximately 82,000 state highway segments across all 67 Pennsylvania counties. The following information is extracted from RMS for emission calculations:

- Lanes.
- Distances.
- Volumes representing Average Annual Daily Traffic (AADT).
- Truck percentages.
- PennDOT urban/rural classifications.
- PennDOT functional class codes.
- Number of signals (based on linkage to PennDOT's Geographic Information System (GIS) signal location data).

RMS volumes and distances are used in calculating highway VMT totals for each county. As discussed in the next section, adjustments are needed to convert the volumes to an average summer weekday, winter weekday, and monthly day (including weekends and weekdays), as applicable to the pollutant/precursor being analyzed. In addition, the traffic volumes must be forecast to support future years. Lane values and traffic signals are important inputs for determining the congestion and speeds for individual highway segments. Truck percentages are used in the speed determination process in order to split volumes to individual vehicle types used by MOVES software. Road segments are classified not only by function, but also by whether it is located in an urban, small urban or rural area. The PennDOT urban/rural (UR) and functional classes (FC) designations are important indicators of the type and function of each roadway segment. These variables provide valuable insights into other characteristics not contained in the RMS data, which are used for speed and emission calculations.

VMT forecast growth rates are based on PennDOT's VMT forecasting system, as documented in the report "Statistical Evaluation of Projected Traffic Growth, Traffic Growth Forecasting System: Final Report, March 14, 2005". The PennDOT forecasting system includes the development of VMT forecasts and growth rates for four functional classifications in each Pennsylvania county: urban interstate, urban non-interstate, rural interstate, and rural non-interstate. The forecasts use statistical relationships based on historic HPMS VMT trends and future county socioeconomic projections based on the Woods and Poole Economics, Inc. State Profile (<a href="http://www.woodsandpoole.com/">http://www.woodsandpoole.com/</a>). The statistical models incorporate historical VMT trends, socioeconomic data (households, mean household income), and a relative measure of transportation capacity (lane miles per capita). PennDOT's BPR maintains and updates these growth rates on a periodic basis based on new demographic projections and updated information on HPMS VMT. The results of the updated VMT forecasts have been shared with the participants in the Pennsylvania Air Quality Working Group.

## **Other Supporting Traffic Data**

Other traffic data is used to adjust and disaggregate traffic volumes. Key sources used in these processes include the following:

- Highway Performance Monitoring System (HPMS VMT): According to EPA guidance, baseline inventory VMT computed from the RMS highway segment volumes must be adjusted to be consistent with HPMS VMT totals. The VMT contained in the HPMS reports are considered to represent average annual daily traffic (AADT), an average of all days in the year, including weekends and holidays. Adjustment factors are calculated for the 2022 analysis year. These factors are used to adjust locally modeled roadway data VMT to be consistent with the reported HPMS totals and are applied to all county and facility group combinations within the region. These adjustments are important to account for local roadway VMT not represented within the regional travel demand model.
- Seasonal Factors: The traffic volumes estimated from the RMS are adjusted to summer or average monthly conditions (as needed for annual processing), using seasonal adjustment factors prepared by PennDOT's BPR in their annual traffic data report published on the BPR website (<a href="http://www.dot.state.pa.us/">http://www.dot.state.pa.us/</a> Search: Research and Planning). The seasonal factors are also used to develop MOVES daily and monthly VMT fraction files, allowing MOVES to determine the portion of annual VMT that occurs in each month of the year.
- Hourly Patterns: Speeds and emissions vary considerably depending on the time of day. In order to produce accurate emission estimates, it is important to estimate the pattern by which roadway volume varies by breaking the data down into hourly increments. Pattern data is in the form of a percentage of the daily volumes for each hour. Distributions are provided for all the counties within the region and by each facility type grouping. The hourly pattern data has been developed from 24-hour vehicle count data compiled by PennDOT's BPR, using the process identified in PennDOT's annual traffic data report. The same factors are also used to develop the MOVES hourly fraction file.

#### **Vehicle Class**

Emission rates within MOVES also vary significantly by vehicle type. MOVES produces emission rates for thirteen MOVES vehicle source input types. VMT, however, is input to MOVES by six HPMS vehicle groups (note that passenger cars and light trucks are grouped for input to MOVES3). **Exhibit 4** summarizes the distinction between each classification scheme.

**EXHIBIT 4: MOVES SOURCE TYPES AND HPMS VEHICLE GROUPS** 

SOURCE TYPES		HPMS Class Gr	<u>roups</u>
11	Motorcycle	10	Motorcycle
21	Passenger Car	25	Passenger Car
31	Passenger Truck	25	Passenger/Light Truck
32	Light Commercial Truck	40	Buses
11	Intercity Bus	50	Single Unit Trucks
12	Transit Bus	60	<b>Combination Trucks</b>
13	School bus		
51	Refuse Truck		
52	Single Unit Short-haul Truck		
53	Single Unit Long-haul Truck		
54	Motor Home		
51	Combination Short-haul Truck		
52	Combination Long-haul Truck		

The emissions estimation process includes a method to disaggregate the traffic volumes to the thirteen source types and then to recombine the estimates to the six HPMS vehicle classes. Vehicle type pattern data is used by PPSUITE to distribute the hourly roadway segment volumes among the thirteen MOVES source types. Similar to the 24-hour pattern data, this data contains percentage splits to each source type for every hour of the day. The vehicle type pattern data is developed from several sources of information:

- PennDOT truck percentages from the RMS database.
- Hourly distributions for trucks and total traffic compiled by PennDOT's BPR.
- School bus registration data from PennDOT's Bureau of Motor Vehicles Registration Database.

Vehicle type percentages are also input into the capacity analysis section of PPSUITE to adjust the speeds in response to truck volume. Larger trucks take up more roadway space compared to an equal number of cars and light trucks, which is accounted for in the speed estimation process by adjusting capacity using information from the Transportation Research Board's fifth edition of the *Highway Capacity Manual*. (http://hcm.trb.org/).

### **Vehicle Ages**

Vehicle age distributions are input to MOVES for each of the thirteen source types. These distributions reflect the percentage of the vehicle fleet falling under each vehicle model year (MY), to a maximum age of 31 years. The vehicle age distributions were prepared from the most recently available registration download from PennDOT's Bureau of Motor Vehicles Registration Database. Due to data limitations, information for light duty vehicles (including source types 11, 21, 31 and 32) was used as local data for MOVES inputs, while heavy-duty vehicles (including source types 41, 42, 43, 51, 52, 53, 54, 61, and 62) used the MOVES3 national default data. The registration data download is based on MOBILE6.2 vehicle

categories. The data was converted to source types using the EPA convertor spreadsheets provided with the MOVES emission model.

## **Vehicle Population**

The vehicle population information, including the number and age of vehicles, impacts forecasted start and evaporative emissions within MOVES. Similar to vehicle ages, MOVES requires vehicle populations for each of the thirteen source type categories. County vehicle registration data was used to estimate vehicle population for light-duty vehicles, transit buses, and school buses. Other heavy-duty vehicle population values were based on VMT for each source type using the vehicle mix and pattern data discussed previously. PPSUITE automatically applies MOVES default ratios of VMT and source type population (e.g. the number of miles per vehicle by source type) to the local VMT estimates to produce vehicle population. For the preparation of source type population for other required conformity analysis years, base values were adjusted using forecast population and household data for the area. Growth rates were limited so as to not exceed the VMT growth assumptions.

## **Meteorology Data**

Average monthly minimum temperatures, maximum temperatures, and humidity values are consistent with the regional State Implementation Plan (SIP) modeling conducted by DEP. The data was obtained from AccuWeather, Inc. (<a href="https://www.accuweather.com">www.accuweather.com</a>). The 10-year (2010-2020) average minimum and maximum monthly temperature and relative humidity values were obtained for each of the 10 airport locations in Pennsylvania.

## **Fuel Parameters**

The MOVES3 default data assumptions have been reviewed and determined adequate to be used as inputs to the MOVES emissions modeling. Key assumptions include:

- 10.0 RVP used for summer months.
- 100% market share of 10% ethanol throughout the year for analysis years 2025, 2035 and 2045 (based on MOVES3 defaults).

## I/M Program Parameters

The inspection maintenance (I/M) program inputs to the MOVES model are based on current programs within each county (all PA I/M programs are based on county boundaries). All analysis years include Pennsylvania's statewide I/M program. The default I/M program parameters included in MOVES were examined for each county and necessary changes were made to the default parameters to match the 2021 I/M program performance.

In order to assure that emission controls are working properly, vehicle inspection and maintenance (I/M) programs have been adopted in some nonattainment areas. These programs have the added benefit of improving the fuel efficiency of vehicles. The Pennsylvania inspection and maintenance (I/M) program

was upgraded and expanded throughout the state with a phase-in period starting in September 2003 and fully implemented by June 2004.

The I/M program requirements vary by region (five regions) and include on-board diagnostics (OBD) technology that uses the vehicle's computer for model years 1996 and newer to identify potential engine and exhaust system problems that could affect emissions. The program, named PAOBDII, is implemented by region as follows:

- Philadelphia Region Bucks, Chester, Delaware, Montgomery and Philadelphia Counties
   [Includes tailpipe exhaust testing using ASM2015 or equipment for pre-1996 vehicles up to 25 years old]
- *Pittsburgh Region* Allegheny, Beaver, Washington and Westmoreland Counties. [Includes tailpipe exhaust testing using PA 97 equipment for pre-1996 vehicles up to 25 years old]
- South Central and Lehigh Valley Region Berks, Cumberland, Dauphin, Lancaster, Lebanon, Lehigh, Northampton and York Counties.
   [Includes gas cap and visual inspection only for 1975 through 1995 model years]
- North Region Blair, Cambria, Centre, Erie, Lackawanna, Luzerne, Lycoming, and Mercer Counties. [Gas cap and visual inspection only No OBD]
- Other 42 Counties Includes the remaining 42 counties not included above.
   [Visual inspection only No OBD]

## Other Vehicle Technology and Control Strategy Data

#### **Federal Programs**

Current federal vehicle emissions control and fuel programs are incorporated into the MOVES3 software. The MOVES3 model includes the National Program standards covering light duty vehicles through model year 2026, heavy duty greenhouse gas standards for model year 2014-2018 vehicles, and the Tier 3 vehicle standards. Modifications of default emission rates are required to reflect the early implementation of the National Low Emission Vehicle (NLEV) program in Pennsylvania. To reflect these impacts, EPA has released instructions and input files that can be used to model these impacts. The NLEV input database was created for Pennsylvania per EPA's instructions and was used for this inventory.

MOVES3 also incorporates the following new federal emission standard rules:

- Greenhouse Gas Emissions and Fuel Efficiency Standards for Medium- and Heavy-Duty Engines
  and Vehicles Phase 2 (HD GHG2) Rule: MOVES3 accounts for the HD GHG2 rule published in
  2016. The rule set stricter fuel economy standards for HD vehicles which reduce CO2 emissions,
  but also impact other pollutants through changes in glider sales, hoteling activity, vehicle mass
  and road load coefficients.
- Safe Affordable Fuel Efficient (SAFE) Vehicles Rule: MOVES3 also accounts for the March 2020 SAFE standards for light-duty vehicles. These standards were less stringent than the preceding fuel economy standards, and thus increased fuel consumption and CO2 emissions.

### **State Programs**

The Pennsylvania Clean Vehicles (PCV) Program, adopted in 1998, incorporated the California Low Emission Vehicle Regulations (CA LEV) by reference. The PCV Program allowed automakers to comply with the NLEV program as an alternative to this Pennsylvania program until MY2006. Beginning with MY2008, all "new" passenger cars and light-duty trucks with a gross vehicle weight rating (GVWR) of 8,500 pounds or less sold/leased and titled in Pennsylvania must be certified by the California Air Resources Board (CARB) or be certified for sale in all 50 states. For this program, a "new" vehicle is a qualified vehicle with an odometer reading less than 7,500 miles. DEP and PennDOT both work with the public, including manufacturers, vehicle dealers and consumers, to ensure that vehicles sold and purchased in Pennsylvania or vehicles purchased from other states by Pennsylvania residents comply with the requirements of the PCV Program, in order to be titled in Pennsylvania. Additionally, PennDOT ensures that paperwork for title and registration includes proof of CARB- or 50-state emission certification or that the vehicle owner qualifies for an exemption to the requirements, as listed on PennDOT's MV-9 form and in the PCV Program regulation. When necessary, information from PennDOT's title and registration process may be used to audit vehicle title transactions to determine program compliance.

The impacts of this program are modeled for all analysis years beyond 2008 using the same instructions and tools downloaded for the early NLEV analysis. EPA provided input files to reflect state programs similar to the CAL LEV program. Modifications to those files were made to reflect a 2008 program start date for Pennsylvania.

## **Analysis Process Details**

The previous sections have summarized the input data used for computing speeds and emission rates for this conformity analysis. This section explains how PPSUITE and MOVES use that input data to produce emission estimates. **Exhibit 5** provides a more detailed overview of the PPSUITE analysis procedure using the available traffic data information described in the previous sections.

## VMT Preparation

Producing an emissions inventory with PPSUITE requires a process of disaggregation and aggregation. Data is available and used on a very detailed scale – individual roadway segments for each of the 24 hours of the day. This data needs to be processed individually to determine the distribution of vehicle hours of travel (VHT) by speed and then aggregated by vehicle class to determine the input VMT to the MOVES emission model. Key steps in the preparation of VMT include:

- Assemble VMT The RMS database contains the roadway segments, distances and travel volumes
  needed to estimate VMT. PPSUITE processes each segment by simply multiplying the assigned travel
  volume by the distance to obtain VMT.
- Apply Seasonal Adjustments PPSUITE adjusts the traffic volumes to the appropriate analysis season
  using an average monthly day to support annual PM<sub>2.5</sub> analyses. These traffic volumes are assembled

by PPSUITE and extrapolated over the course of a year to produce the annual VMT file input to MOVES.

- Disaggregate to Hours After seasonal adjustments are applied, the traffic volumes are distributed to each hour of the day. This allows for more accurate speed calculations (effects of congested hours) and allows PPSUITE to prepare the hourly VMT and speeds for input to MOVES.
- Peak Spreading After distributing the daily volumes to each hour of the day, PPSUITE identifies hours
  that are unreasonably congested. For those hours, PPSUITE then spreads a portion of the volume to
  other hours within the same peak period, thereby approximating the "peak spreading" that normally
  occurs in such over-capacity conditions. This process also helps prevent hours with unreasonably
  congested speeds from disproportionately impacting emission calculations.
- Disaggregation to Vehicle Types EPA requires VMT estimates to be prepared by the five HPMS vehicle
  groups, reflecting specific local characteristics. As described in the previous section, the hourly
  volumes are disaggregated into thirteen MOVES source types based on data from PennDOT, in
  combination with MOVES defaults. The thirteen MOVES source types are then recombined into five
  HPMS vehicle classes.
- Apply HPMS VMT Adjustments Volumes must also be adjusted to account for differences with the
  HPMS VMT totals, as described in previous sections. VMT adjustment factors are provided as inputs
  to PPSUITE and are applied to each of the roadway segment volumes. VMT adjustment factors are
  also applied to runs for future years.
- Apply VMT Growth Adjustments Volumes must also be adjusted to estimate future year VMT. VMT growth factors are provided as inputs to PPSUITE, and are applied to each of the roadway segment volumes. The VMT growth factors were developed from the PennDOT BPR Growth Rate forecasting system.

### **Speed Estimation**

Emissions for many pollutants (including VOC and NOx) vary significantly with travel speed. VOC emissions generally decrease as speed increases, while  $NO_X$  emissions decrease at low speeds and increases at higher speeds. Because emissions are so sensitive to speed changes, EPA recommends special attention be given to developing reasonable and consistent speed estimates. EPA also recommends that VMT be disaggregated into subsets that have roughly equal speeds, with separate emission factors for each subset. At a minimum, speeds should be estimated separately by road type.

The computational framework used for this analysis meets and exceeds the recommendation above relating to speed estimates. Speeds are individually calculated for each roadway segment and hour. Rather than accumulating the roadway segments into a particular road type and calculating an average speed, each individual link hourly speed is represented in the MOVES vehicle hours of travel (VHT) by a speed bin file. This MOVES input file allows the specification of a distribution of hourly speeds. For example, if 5% of a county's arterial VHT operates at 5 mph during the AM peak hour and the remaining 95% operates at 65 mph, this can be represented in the MOVES speed input file. For the roadway vehicle

emissions calculations, speed distributions are input to MOVES by road type and source type for each hour of the day.

To calculate speeds, PPSUITE first obtains initial capacities (i.e., how much volume the roadway can serve before heavy congestion) and free-flow speeds (speeds assuming no congestion) from a speed/capacity lookup table. As described previously, this data contains default roadway information indexed by the area and facility type codes. For areas with known characteristics, values can be directly coded to the database and the speed/capacity default values can be overridden. For most areas where known information is unavailable, the speed/capacity lookup tables provide valuable default information regarding speeds, capacities, signal characteristics, and other capacity adjustment information used for calculating congested delays and speeds. The result of this process is an estimated average travel time for each hour of the day for each highway segment. The average travel time multiplied by traffic volume produces vehicle hours of travel (VHT).

Data from PPSUITE Input Files **PPSUITE Analysis Process** Data from Roadway Information Source The Following is Performed For **Each Roadway Segment** Percent Pattern Distributions Expand to 24 hourly volumes ← RMS Factored Traffic Volumes Adjust Volumes for Peak Spreading **Apply VMT Adjustments** Vehicle Type Patterns Disaggregate to Vehicle Type Calculate Link & Signal Capacities - Roadway Attributes (Lanes, Facility/Area Code) Speed/Capacity Lookup Table Calculate Link Calculate Midblock Speed Approach Delay Apply Post Speed VMT Adjustments HPMS VMT Totals Including **Local Roadways Prepare MOVES Traffic-Related CDM Files** Source Type VHT by Annual Road Hourly Ramp Population Speed VMT Type Fractions Fractions (Trucks) Fractions Bin (Default) Off-line File Preparation Vehicle Age Distribution Run MOVES Importer to convert county input data Hourly into MYSQL data format Temps/Humidity I/M / Fuel **Parameters** Source Type **Run MOVES Population** Month/Day VMT Fractions

**EXHIBIT 5: PPSUITE SPEED/EMISSION ESTIMATION PROCEDURE** 

## **Developing the MOVES Traffic Input Files**

The PPSUITE software is responsible for producing the following MOVES input files during any analysis run:

- VMT by HPMS vehicle class.
- VHT by speed bin.
- Road type distributions.
- Hourly VMT fractions.

These files are text formatted files with a \*.csv extension. The files are provided as inputs within the MOVES County Data Manager (CDM) and are described below:

- VMT Input File: VMT is the primary traffic input affecting emission results. The roadway segment
  distances and traffic volumes are used to prepare estimates of VMT. PPSUITE performs these
  calculations and outputs the MOVES annual VMT input file to the County Data Manager (CDM). The
  annual VMT is computed by multiplying the RMS roadway adjusted VMT by 365 days (366 days in a
  leap year).
- VHT by Speed Bin File: As described in the previous section, the PPSUITE software prepares the MOVES VHT by speed bin file, which summarizes the distribution of speeds across all links into each of the 16 MOVES speed bins for each hour of the day by road type. This robust process is consistent with the methods and recommendations provided in EPA's technical guidance for the MOVES3 model (<a href="http://www.epa.gov/otaq/models/moves/">http://www.epa.gov/otaq/models/moves/</a>) and ensures that MOVES emission rates are used to the fullest extent.
- Road Type Distributions: Within MOVES, typical drive cycles and associated operating conditions vary by roadway type. MOVES defines five different roadway types as follows:
  - 1 Off-Network.
  - 2 Rural Restricted Access.
  - 3 Rural Unrestricted Access.
  - 4 Urban Restricted Access.
  - 5 Urban Unrestricted Access.

For this analysis, the MOVES road type distribution file is automatically generated by PPSUITE using defined equivalencies. The off-network road type includes emissions from vehicle starts, extended idling, and evaporative emissions. Off-network activity in MOVES is primarily determined by the Source Type Population input.

### **MOVES Runs**

After computing speeds and aggregating VMT and VHT, PPSUITE prepares traffic-related inputs needed to run EPA's MOVES software. Additional required MOVES inputs are prepared externally from the

processing software and include temperatures, I/M program parameters, fuel characteristics, vehicle fleet age distributions, and source type population. The MOVES county importer is run in batch mode. This program converts all data files into the SQL format used by the MOVES model. At that point, a MOVES run specification file (\*.mrs) is created which specifies options and key data locations for the run. The MOVES run is then executed in batch mode. A summary of key MOVES run specification settings is shown in **Exhibit 6**. MOVES can be executed using either an inventory or rate-based approach. For this analysis, MOVES is applied using the inventory-based approach. Using this approach, actual VMT and population are provided as inputs to the model; MOVES is responsible for producing the total emissions for the region.

**EXHIBIT 6: MOVES RUN SPECIFICATION FILE PARAMETER SETTINGS** 

Parameter	Setting
MOVES Version	MOVES3.1
MOVES Default Database Version	MOVESDB20221007
Scale	COUNTY
Analysis Mode	Inventory
Time Span	Annual Runs: Single MOVES run with 12-month inputs including all days and hours
Input Time Aggregation	Hour
Geographic Selection	County [FIPS]
Vehicle Selection	All source types Gasoline, Diesel, CNG, E85, Electricity
Road Type	All road types including off-network
Pollutants and Processes	All PM <sub>2.5</sub> categories, NO <sub>x</sub> , VOC
Database selection	Early NLEV database PA-Specific CA LEV program database
General Output	Units: Emission = grams; Distance = miles; Time = hours; Energy = Million BTU
Output Emissions	Time = Hour or Month, Emissions by Process ID, Source Type and Road Type

## **Conformity Analysis Results (Fine Particulate Matter)**

Transportation conformity analyses of the current TIP and LRTP have been completed for Cambria County. The analyses were performed according to the requirements of the Federal transportation conformity rule at 40 CFR Part 93, Subpart A. The analyses utilized the methodologies, assumptions and data as presented in previous sections. Interagency consultation has been used to determine applicable emission models, analysis years and emission tests.

### **Emission Tests**

On July 16, 2015, EPA approved the Commonwealth of Pennsylvania's request to redesignate the *Johnstown, PA* area to attainment for the 1997 annual and 2006 24-hour PM<sub>2.5</sub> NAAQS (80 FR 42046). The maintenance plan includes Cambria County 2017 and 2025 PM<sub>2.5</sub> and NOx MVEBs for transportation conformity purposes. All MVEBs are summarized in **Exhibit 7**.

EXHIBIT 7: ANNUAL  $PM_{2.5}$  MOTOR VEHICLE EMISSION BUDGETS

Pollutant	2017 Budget (tons/year)	2025 Budget (tons/year)	
PM <sub>2.5</sub>	62.79	46.71	
NOx	1,707.03	1,077.46	

## **Analysis Years**

Section 93.119(g) of the Federal Transportation Conformity Regulations requires that emissions analyses be conducted for specific analysis years as follows:

- A near-term year, one to five years in the future.
- > The last year of the LRTP's forecast period.
- ➤ All established MVEB years.
- Attainment year of the standard if within timeframe of TIP and LRTP.
- An intermediate year or years such that if there are two years in which analysis is performed, the two analysis years are no more than ten years apart.

All analysis years were determined through the interagency consultation process. **Exhibit 8** provides the analysis years used for this conformity analysis.

**EXHIBIT 8: TRANSPORTATION CONFORMITY ANALYSIS YEARS** 

Analysis Year	Description
2025	Budget Year
2035	Interim Year
2045	Interim Year
2050	LRTP Horizon Year

### Components of the PM<sub>2.5</sub> Regional Emissions Analysis

PM<sub>2.5</sub> can be the result of either direct or indirect emissions. Direct transportation emissions can be the result of brake or tire-wear, particulates in exhaust emissions, or dust raised by on-road vehicles or construction equipment. Possible indirect transportation related emissions of PM<sub>2.5</sub> include: NH<sub>3</sub>, NO<sub>x</sub>, SO<sub>x</sub>, and VOC. The EPA has ruled that regional analysis of direct PM<sub>2.5</sub> emissions must include both exhaust and brake/tire-wear emissions. EPA's current regulations specify that road dust should be included in the regional analysis of direct PM<sub>2.5</sub> emissions only if the EPA or the state air agency have found it to be a significant contributor to the region's nonattainment. Neither the EPA nor the state air agency has determined road dust to be a significant contributor in the nonattainment area for this conformity determination.

Until a SIP revision is approved proving that  $NO_X$  is insignificant, EPA's current regulations state that indirect  $PM_{2.5}$  emissions must be analyzed for  $NO_X$ . Conversely, VOC,  $SO_X$  and  $NH_3$  must be analyzed only if the state(s) or the EPA determines one or more of these pollutants significant. Therefore,  $NO_X$  is the only indirect  $PM_{2.5}$  component analyzed for the nonattainment area in this conformity determination.

### **Regionally Significant Highway Projects**

For the purposes of conformity analysis, model highway networks are created for each analysis year. The analyses only include new projects which may have a significant effect on emissions in accordance with 40 CFR Parts 51 and 93. These projects typically include those that increase roadway capacity or significantly impact vehicular speeds. Projects such as bridge replacements and roadway restoration projects, which constitute the majority of the TIP and LRTP list, have been excluded from consideration since they are considered exempt under 40 CFR 93.126-127. A list of highway projects is shown in **Attachment A**.

### **Analysis Results**

An emissions analysis has been completed for the 2006 24-hour PM<sub>2.5</sub> NAAQS. Forecast years have been estimated using the procedures and assumptions provide in this conformity report. A detailed emission summary is also provided in **Attachment B**. Example MOVES importer (XML) and run specification (MRS) files are provided in **Attachment C**.

**Exhibit 9** summarizes the annual PM<sub>2.5</sub> and NO<sub>X</sub> emissions. Emissions are compared against the available 2017 and 2025 SIP MVEBs listed in **Exhibit 7**. The results illustrate that projected emissions are below the applicable MVEBs.

EXHIBIT 9: ANNUAL PM2.5 EMISSION ANALYSIS RESULTS AND CONFORMITY TEST (Annual)

Pollutan	t	2025 (tons/year)	2035 (tons/year)	2045 (tons/year)	2050 (tons/year)
PM <sub>2.5</sub>		15.95	10.80	9.18	8.87
NO <sub>X</sub>	NOx		235.16	219.52	218.66
MVEBs	PM <sub>2.5</sub>	46.71	46.71	46.71	46.71
2006 PM <sub>2.5</sub> NAAQS	NO <sub>X</sub>	1,077.46	1,077.46	1,077.46	1,077.46
Conformity Result		Pass	Pass	Pass	Pass

## **Conformity Analysis Results (Ozone)**

On November 29, 2018, EPA issued *Transportation Conformity Guidance for the South Coast II Court Decision*<sup>1</sup>(EPA-420-B-18-050, November 2018) that addresses how transportation conformity determinations can be made in areas that were nonattainment or maintenance for the 1997 ozone NAAQS when the 1997 ozone NAAQS was revoked, but were designated attainment for the 2008 ozone NAAQS in EPA's original designations for this NAAQS (May 21, 2012).

The transportation conformity regulation at 40 CFR 93.109 sets forth the criteria and procedures for determining conformity. The conformity criteria for TIPs and LRTPs 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 LRTPs 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 can be demonstrated by showing the 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:

<sup>&</sup>lt;sup>1</sup> Available from https://www.epa.gov/state-and-local-transportation/policy-and-technical-guidance-state-and-local-transportation

- Latest planning assumptions (93.110)
- Consultation (93.112)
- Transportation Control Measures (93.113)
- Fiscal constraint (93.108)

The use of latest planning assumptions in 40 CFR 93.110 of the conformity rule generally applies to a 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. However, the Johnstown SIP maintenance plan does not include any TCMs. All remaining requirements are addressed in the previous interagency consultation section and the following conformity determination section of this document.

## **Conformity Determination**

### **Financial Constraint**

The planning regulations, Sections 450.324(f)(11) and 450.326(j), requires the transportation plan and TIP to be financially constrained while the existing transportation system is being adequately operated and maintained. Only projects for which construction and operating funds are reasonably expected to be available are included. JATS, in conjunction with PennDOT, FHWA and FTA, has developed an estimate of the cost to maintain and operate existing roads, bridges and transit systems in Cambria County and have compared the cost with the estimated revenues and maintenance needs of the new roads over the same period. The TIP and LRTP have been determined to be financially constrained.

### **Public Participation**

The TIP and LRTP have undergone the public participation requirements as well as the comment and response requirements according to the procedures established in compliance with 23 CFR part 450, the JATS Public Participation Plan, and Pennsylvania's Conformity SIP. The draft document was made available for a 30-day public review and a public meeting.

## **Conformity Statement**

The conformity rule requires that the TIP and LRTP conform to the applicable SIP(s) and be adopted by the MPO/RPO before any federal agency may approve, accept, or fund projects. Conformity is determined by applying criteria outlined in the transportation conformity regulations to the analysis.

The TIP and LRTP for Cambria County are found to conform to the applicable air quality SIP(s) or EPA conformity requirements. This finding of conformity positively reflects on the efforts of the JATS and its partners in meeting the regional air quality goals, while maintaining and building an effective transportation system.

## **Resources**

### **MOVES Model**

Modeling Page within EPA's Office of Mobile Sources Website contains a downloadable model, MOVES users guide and other information. See (http://www.epa.gov/omswww/models.htm)

Policy Guidance on the Use of MOVES3 for State Implementation Plan Development, Transportation Conformity, and Other Purposes, US EPA Office of Air and Radiation, EPA-420-B-20-044, November 2020

MOVES3 Technical Guidance: Using MOVES to Prepare Emission Inventories for State Implementation Plans and Transportation Conformity. US EPA Assessment and Standard Division, Office of Transportation and Air Quality, EPA-420-B-20-052, November 2020.

## **Traffic Engineering**

Highway Capacity Manual, fifth edition (HCM2010), Transportation Research Board, presents current knowledge and techniques for analyzing the transportation system.

*Traffic Data Collection and Factor Development Report, 2022 Data,* Pennsylvania Department of Transportation, Bureau of Planning and Research.

## **Highway Vehicle Emissions Analysis Glossary**

**AADT:** Average Annual Daily Traffic, average of ALL days

CAA: Clean Air Act as amended

CARB: California Air Resources Board

**CFR**: Code of Federal Regulations

**County Data Manager (CDM):** User interface developed to simplify importing specific local data for a single county or a user-defined custom domain without requiring direct interaction with the underlying SQL database in the MOVES emission model

**DEP:** Department of Environmental Protection.

**Emission rate or factor:** Expresses the amount of pollution emitted per unit of activity. For highway vehicles, this is usually expressed in grams of pollutant emitted per mile driven

**EPA:** Environmental Protection Agency.

FC: Functional code. Applied to road segments to identify their type (freeway, local, etc.)

FHWA: Federal Highway Administration

FR: Federal Register

FTA: Federal Transit Administration

**Growth factor:** Factor used to convert volumes to future years

**HPMS:** Highway Performance Monitoring System

**I/M:** Vehicle emissions inspection/maintenance programs are required in certain areas of the country. The programs ensure that vehicle emission controls are in good working order throughout the life of the vehicle. The programs require vehicles to be tested for emissions. Most vehicles that do not pass must be repaired.

LRTP: Long Range Transportation Plan

**MOVES:** Motor Vehicle Emission Simulator. The latest model EPA has developed to estimate emissions from highway vehicles

MVEB: motor vehicle emissions budget

**NAAQS:** National Ambient Air Quality Standard

NTD: National Transit Database

**Pattern data:** Extrapolations of traffic patterns (such as how traffic volume on road segment types varies by time of day, or what kinds of vehicles tend to use a road segment type) from segments with observed data to similar segments

**PPSUITE:** Post-Processor for Air Quality. A set of programs that estimate speeds and prepares MOVES inputs and processes MOVES outputs

**Road Type:** Functional code, applied in data management to road segments to identify their type (rural/urban highways, rural/urban arterials, etc.)

RMS: Roadway Management System

**SIP:** State Implementation Plan

Source Type: One of thirteen vehicle types used in MOVES modeling

TAZ: Traffic Analysis Zone System

**TIP:** Transportation Improvement Program

VHT: Vehicle hours traveled

VMT: Vehicle miles traveled. In modeling terms, it is the simulated traffic volumes multiplied by link

length

**VOC:** volatile organic compound emissions

**ATTACHMENT A** 

**Project List** 

The following Cambria County FY2025-2028 TIP and 2050 LRTP air quality significant highway projects are included in the conformity analysis:

MPMS#	Project Name	Description			
	Air Quality Significant Projects on FY2025-2028 TIP and 2050 LRTP				
114001	PA 756 – Alvin Ave to Industrial Park Rd	This project involves roadway improvements on PA 756 (Elton Road) from T-464 (Alvin Street) to T-737 (Industrial Park Road) in Richland Township, Cambria County. It will improve intersection safety by improving sight distance, adding left turn lanes, improving driver awareness and updating traffic signals throughout corridor to help support a reduction in congestion.			
115615	Johnstown Urban Ind. Park Connector St	Construct a new access road from Iron Street to Johnstown Urban Industrial Park in the City of Johnstown, Cambria County			

## **ATTACHMENT B**

**Detailed Emission Results\*** 

**Annual PM<sub>2.5</sub> Analysis** 

<sup>\*</sup>All table values and totals have been estimated from the MOVES detailed output and rounded to 1-2 decimal points. Due to rounding, individual table entries may not add exactly to the total

# **Detailed Emission Results for Annual PM2.5** Analysis

# Cambria County PM2.5 Annual Emission Summary 2025 FFY25 TIP Conformity (By Road Type)

County	Road Type	Annual VMT	Speed	Emissions (Tons/Year)	
County	Rodu Type	Ailliaal VIIII	(mph)	NOx	PM <sub>2.5</sub>
	Off-Network	N/A	N/A	103.91	4.54
	Rural Restricted	0	N/A	0.00	0.00
Cambria	Rural UnRestricted	461,655,376	48.2	156.67	5.63
Calliblia	Urban Restricted	278,256,354	55.4	91.52	2.92
	Urban UnRestricted	273,722,675	35.5	79.93	3.82
	Subtotal	1,013,634,406		432.02	16.91
Off-Model Project Emission Benefits				15.22	-0.96
Region Total		1,013,634,406		447.24	15.95
			(Kg/Year)	405,733	14,473

# Cambria County PM2.5 Annual Emission Summary 2025 FFY25 TIP Conformity (By Emission Process)

County	Emission Process	Emissions (1	ons/Year)
County	Linission Frocess	NOx	PM <sub>2.5</sub>
	Running Exhaust	351.51	7.56
	Start Exhaust	73.92	3.84
	Brakewear	0.00	2.79
	Tirewear	0.00	1.65
	Evap Permeation	0.00	0.00
	Evap Fuel Vapor Venting	0.00	0.00
Cambria	Evap Fuel Leaks	0.00	0.00
	Crankcase Running Exhaust	2.46	0.96
	Crankcase Start Exhaust	0.00	0.03
	Crankcase Extended Idle Exhaust	0.03	0.02
	Extended Idle Exhaust	3.84	0.05
	Auxiliary Power Exhaust	0.26	0.00
	Subtotal	432.02	16.91
Off-Model Project Emission Benefits		15.22	-0.96
Region Total		447.24	15.95
	(Kg/Year)	405,733	14,473

# Cambria County PM2.5 Annual Emission Summary 2025 FFY25 TIP Conformity (By Source Type)

County	Source Type	Annual VMT	Emissions (Tons/Year)	
County	Source Type	Amidai VIVII	NOx	PM <sub>2.5</sub>
	Motorcycle Passenger Car Passenger Truck Light Commercial Truck Intercity Bus Transit Bus	6,461,088 508,879,430 330,586,060 84,797,950 40,500 4,114,256	5.30 41.83 87.68 36.56 0.15 16.96	0.15 4.13 4.53 1.55 0.00 0.31
Cambria	School Bus Refuse Truck Single Unit Short-haul Truck Single Unit Long-haul Truck Motor Home Combination Short-haul Truck Combination Long-haul Truck Subtotal	1,004,600 1,164,832 26,119,440 1,593,390 2,412,083 11,382,757 35,078,019 1,013,634,406	2.94 3.71 32.52 1.69 7.07 40.79 154.82	0.11 0.07 0.82 0.04 0.26 0.86 4.06
Off-Model Project Emission Benefits	Castotal	1,070,007,100	15.22	-0.96
Region Total		1,013,634,406 (Kg/Year)	447.24 405,733	15.95 14,473

# Cambria County PM2.5 Annual Emission Summary 2035 FFY25 TIP Conformity (By Road Type)

County	Road Type Annual VMT	Speed	Emissions (Tons/Year)		
County	Nodu Type	Ailliaal VIIII	(mph)	NOx	PM <sub>2.5</sub>
Cambria	Off-Network Rural Restricted Rural UnRestricted Urban Restricted Urban UnRestricted Subtotal	N/A 0 469,791,144 291,604,915 269,031,411 1,030,427,470	N/A N/A 48.2 55.1 35.6	77.88 0.00 80.99 44.87 42.08 245.82	4.26 0.00 3.23 1.63 2.47 11.59
Off-Model Project Emission Benefits				-10.66	-0.79
Region Total		1,030,427,470	(Kg/Year)	235.16 213,332	10.80 9,802

# Cambria County PM2.5 Annual Emission Summary 2035 FFY25 TIP Conformity (By Source Type)

County	Source Type	Annual VMT	Emissions (Tons/Year)	
County	Source Type	Ailliuai VIVII	NOx	PM <sub>2.5</sub>
	Motorcycle	6,568,298	5.31	0.15
	Passenger Car	517,323,540	23.49	3.87
	Passenger Truck	336,074,160	31.02	3.73
	Light Commercial Truck	86,202,160	9.91	1.02
	Intercity Bus	36,523	0.09	0.00
	Transit Bus	4,187,905	9.42	0.10
Cambria	School Bus	1,024,621	1.78	0.02
Calliblia	Refuse Truck	1,186,228	2.82	0.02
	Single Unit Short-haul Truck	26,559,467	24.52	0.43
	Single Unit Long-haul Truck	1,605,381	1.25	0.02
	Motor Home	2,445,616	3.64	0.15
	Combination Short-haul Truck	11,465,076	31.75	0.49
	Combination Long-haul Truck	35,748,494	100.81	1.59
	Subtotal	1,030,427,470	245.82	11.59
Off-Model Project Emission Benefits			-10.66	-0.79
Region Total		1,030,427,470	235.16	10.80
		(Kg/Year)	213,332	9,802

# Cambria County PM2.5 Annual Emission Summary 2035 FFY25 TIP Conformity (By Emission Process)

County	Emission Process	Emissions (1	Γons/Year)
County	Ellission Flocess	NOx	PM <sub>2.5</sub>
Cambria	Running Exhaust Start Exhaust Brakewear Tirewear Evap Permeation Evap Fuel Vapor Venting Evap Fuel Leaks Crankcase Running Exhaust Crankcase Start Exhaust Crankcase Extended Idle Exhaust Extended Idle Exhaust	186.94 53.85 0.00 0.00 0.00 0.00 0.00 2.43 0.00 0.02 2.08	2.70 4.06 2.83 1.67 0.00 0.00 0.00 0.28 0.03 0.01
	Auxiliary Power Exhaust Subtotal	0.49 245.82	0.00 11.59
Off-Model Project Emission Benefits	Castotal	-10.66	-0.79
Region Total	(Kg/Year)	235.16 213,332	10.80 9,802

# Cambria County PM2.5 Annual Emission Summary 2045 FFY25 TIP Conformity (By Road Type)

County	Road Type	Annual VMT Speed (mph)	•	Emissions (Tons/Year)	
	noud Typo		NOx	PM <sub>2.5</sub>	
Cambria	Off-Network Rural Restricted Rural UnRestricted Urban Restricted Urban UnRestricted Subtotal	N/A 0 478,327,608 300,631,589 269,030,284 1,047,989,481	N/A N/A 48.2 55.1 35.6	77.18 0.00 73.02 39.75 37.76 227.71	3.20 0.00 2.88 1.44 2.26 9.79
Off-Model Project Emission Benefits				-8.19	-0.61
Region Total		1,047,989,481	(Kg/Year)	219.52 199,143	9.18 8,326

# Cambria County PM2.5 Annual Emission Summary 2045 FFY25 TIP Conformity (By Source Type)

County	Source Type	Annual VMT	Emissions (Tons/Year)	
County	Source Type	Amidai VIIII	NOx	PM <sub>2.5</sub>
	Motorcycle	6,677,604	5.40	0.16
	Passenger Car	525,932,740	21.27	3.34
	Passenger Truck	341,669,060	24.73	2.98
	Light Commercial Truck	87,634,150	7.57	0.82
	Intercity Bus	34,109	0.08	0.00
	Transit Bus	4,274,373	9.21	0.09
Cambria	School Bus	1,046,997	1.75	0.02
Calliblia	Refuse Truck	1,218,816	2.84	0.02
	Single Unit Short-haul Truck	27,111,868	24.63	0.43
	Single Unit Long-haul Truck	1,657,864	1.27	0.02
	Motor Home	2,496,398	2.09	0.06
	Combination Short-haul Truck	11,723,911	31.11	0.45
	Combination Long-haul Truck	36,511,591	95.75	1.39
	Subtotal	1,047,989,481	227.71	9.79
Off-Model Project Emission Benefits			-8.19	-0.61
Region Total		1,047,989,481	219.52	9.18
		(Kg/Year)	199,143	8,326

# Cambria County PM2.5 Annual Emission Summary 2045 FFY25 TIP Conformity (By Emission Process)

County	Emission Process	Emissions (Tons/Year)		
County	Linission Process	NOx PM <sub>2</sub>		
Cambria	Running Exhaust Start Exhaust Brakewear Tirewear Evap Permeation Evap Fuel Vapor Venting Evap Fuel Leaks Crankcase Running Exhaust Crankcase Start Exhaust Crankcase Extended Idle Exhaust Extended Idle Exhaust Auxiliary Power Exhaust	169.68 53.23 0.00 0.00 0.00 0.00 0.00 2.41 0.00 0.02 1.82 0.55	1.90 3.06 2.87 1.70 0.00 0.00 0.21 0.02 0.01 0.01	
Off-Model Project Emission Benefits		-8.19	-0.61	
Region Total	(Kg/Year)	219.52 199,143	9.18 8,326	

# Cambria County PM2.5 Annual Emission Summary 2050 FFY25 TIP Conformity (By Road Type)

County	Road Type	Annual VMT Speed (mph)	Anniiai VIVII .	Emissions (Tons/Year)	
	rtodd Typo		NOx	PM <sub>2.5</sub>	
Cambria	Off-Network Rural Restricted Rural UnRestricted Urban Restricted Urban UnRestricted Subtotal	N/A 0 482,571,428 293,304,693 268,107,932 1,043,984,053	N/A N/A 48.2 55.0 35.6	78.44 0.00 72.51 38.60 37.00 226.55	3.00 0.00 2.85 1.39 2.22 9.46
Off-Model Project Emission Benefits				-7.89	-0.59
Region Total		1,043,984,053	(Kg/Year)	218.66 198,362	8.87 8,046

# Cambria County PM2.5 Annual Emission Summary 2050 FFY25 TIP Conformity (By Source Type)

County	Source Type	Type Annual VMT Emissions (Tons/Year		ons/Year)
County	Source Type	Allitual VIVII	NOx	PM <sub>2.5</sub>
Cambria	Motorcycle Passenger Car Passenger Truck Light Commercial Truck Intercity Bus Transit Bus School Bus Refuse Truck Single Unit Short-haul Truck Motor Home Combination Short-haul Truck Subtotal	6,650,548 523,801,980 340,282,290 87,281,440 32,805 4,275,460 1,046,632 1,215,909 27,077,261 1,653,899 2,494,591 11,715,594 36,455,644 1,043,984,053	5.38 21.86 24.45 7.53 0.08 9.29 1.77 2.84 24.64 1.27 2.06 30.81 94.58	0.16 3.30 2.79 0.78 0.00 0.09 0.02 0.43 0.02 0.06 0.44 1.35
Off-Model Project Emission Benefits			-7.89	-0.59
Region Total		1,043,984,053 (Kg/Year)	218.66 198,362	8.87 8,046

# Cambria County PM2.5 Annual Emission Summary 2050 FFY25 TIP Conformity (By Emission Process)

County	Emission Process	Emissions (Tons/Year)	
County	Linission Frocess	NOx	PM <sub>2.5</sub>
	Dunning Exhaust	167.20	1.79
	Running Exhaust		
	Start Exhaust	54.62	2.87
	Brakewear	0.00	2.87
	Tirewear	0.00	1.69
	Evap Permeation	0.00	0.00
	Evap Fuel Vapor Venting	0.00	0.00
Cambria	Evap Fuel Leaks	0.00	0.00
	Crankcase Running Exhaust	2.38	0.20
	Crankcase Start Exhaust	0.00	0.02
	Crankcase Extended Idle Exhaust	0.02	0.01
	Extended Idle Exhaust	1.77	0.01
	Auxiliary Power Exhaust	0.55	0.00
	Subtotal	226.55	9.46
Off-Model Project Emission Benefits		-7.89	-0.59
Region Total	(Kg/Year)	218.66 198,362	8.87 8,046

## **ATTACHMENT C**

Sample MOVES Data Importer (XML) Input File and Run Specification (MRS) Input File

(Sample for 2025 Annual Runs)

## MOVES County Data Manager Importer File - Annual Run (MOVESIMPORTER.XML)

```
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    <timespan>
        <year key="2025"/>
        <month id="00"/>
        <day id="2"/>
        <day id="5"/>
        <beginhour id="1"/>
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        <aggregateBy key="Hour"/>
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Truck"/>
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Truck"/>
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Bus"/>
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Truck"/>
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                <roadtype roadtypeid="3" roadtypename="Rural Unrestricted Access"/>
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                <roadtype roadtypeid="5" roadtypename="Urban Unrestricted Access"/>
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                       </narts>
                </agedistribution>
                <avgspeeddistribution>
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           </parts>
       </imcoverage>
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          <FuelUsageFraction>
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#### MOVES Run Specification File - Annual Run (MOVESRUN.MRS)

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data]]></description>
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  <timesnan>
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<onroadvehicleselection fueltypeid="1" fueltypedesc="Gasoline" sourcetypeid="43" sourcetypename="School Bus"/>
<onroadvehicleselection fueltypeid="3" fueltypedesc="Compressed Natural Gas (CNG)" sourcetypeid="51" sourcetypename="Refuse Truck"/>
<onroadvehicleselection fueltypeid="3" fueltypedesc="Compressed Natural Gas (CNG)" sourcetypeid="52" sourcetypename="Single Unit Short-</p>
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```
haul Truck"/>
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Exhaust"/>
Idle Exhaust"/>
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Exhaust"/>
Exhaust"/>
Exhaust"/>
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Exhaust"/>
Exhaust"/>
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Exhaust"/>
Exhaust"/>
Running Exhaust"/>
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Start Exhaust"/>
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# Appendix G: Environmental Justice Benefits and Burdens Analysis

Presidential Executive Order 12898 states that "each Federal agency shall make achieving environmental justice part of its mission by identifying and addressing, as appropriate, disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations and low-income populations." Within the transportation field, environmental justice is guided by three core principles:

- To avoid, minimize, or mitigate disproportionately high and adverse human health and environmental effects, including social and economic effects, on minority populations and low-income populations.
- To ensure the full and fair participation by all potentially affected communities in the transportation decision-making process.
- To prevent the denial of, reduction in, or significant delay in the receipt of benefits by minority or low-income populations.

Because the Cambria County MPO utilizes federal funds to plan and implement transportation projects the MPO is responsible for undertaking analysis of federally funded projects listed within the LRTP. In order to show that our plan meets these objectives, an Equity Analysis—also known as a "Benefits and Burdens Analysis"—was prepared.

In accordance with FHWA and FTA joint guidance issued to the MPOs and RPOs of Pennsylvania, equity analysis should perform the following four "core elements:"

- Identify environmental justice populations
- Assess conditions and identify needs
- Evaluate burdens and benefits
- Identify and address disproportionate and adverse impacts and inform future planning efforts

# **Identification of Traditionally Underserved and Under-Represented Populations**

Executive Order 12898 specifies that minority and low-income populations must be considered in Environmental Justice analysis. These populations were identified using data from the 2020 U.S. Census and 2019 data releases from the American Community Survey (ACS). The following definitions are used for the purposes of this analysis:

- Minority: Any individual or group that self-identifies as a member(s) of the racial categories of Black/African American, Asian American, American Indian/Alaskan Native, Native Hawaiian/other Pacific Islander, and the ethnic category Hispanic/Latino.
- Low-income: Households at or below the federal poverty level. In the same spirit, the Cambria County MPO's environmental justice equity analysis also identifies people with disabilities and people with limited English proficiency (identified as individuals speaking English "not very well" or speaking English "not at all").

# **Minority and Low-Income Profile**

The Cambria County MPO is a single-county MPO in Southcentral Pennsylvania. Cambria County demographic data was drawn from the U.S. Census Bureau 2018-2022 American Community Survey

5-Year Estimates. This was the most recent data available during TIP development.

**Table G-1: Cambria County Demographics** 

Demographic Indicator	Cambria County Population	Cambria County Percentage
Total Population	133,263	100.00%
White alone, non-Hispanic	121,836	91.43%
Black or African American alone, non-Hispanic	4,540	3.41%
American Indian and Alaska Native alone, non-Hispanic	26	0.02%
Asian alone, non-Hispanic	660	0.50%
Native Hawaiian and Other Pacific Islander alone, non-Hispanic	21	0.02%
Some other race alone, non-Hispanic	283	0.21%
Two or more races	3,433	2.58%
Hispanic or Latino	2,464	2.15%
Minority	11,427	8.57%
Low-Income	18,240	14.36%
Other Potentially Disadvantaged Populations		
Limited English Proficiency Households	363	0.66%
Persons with a Disability	21,698	16.81%
Elderly (65 years or older)	30,817	23.12%
Carless Households	6,184	11.20%
Housing Units with No Internet	7,165	12.97%
Housing Units with No Computer	5,542	10.04%

Source: 2018-2022 American Community Survey 5-Year Estimates

#### **Minority Intervals for Cambria County MPO**

Data from the 2018-2022 American Community Survey 5-Year Estimates were used to evaluate the locations in Cambria County compared to the minority concentration in 128 census block groups. The total county population used for this analysis was

133,263 and the total minority population was 11,427. In Cambria County, 8.57 percent of the population is minority. Using that percentage, census blocks were divided into intervals described in Table G-2.

**Table G-2: Minority Population Intervals** 

	Minority Interval		Total Population	Total Population (%)	Minority Population	Minority Population (%)
1	Census Block Minority Population Percentage <= 4.29% (census block group minority population percentage less than or equal to half of countywide population percentage)	1,268 people live in these census blocks. Of those, 1.89% are minority.	67,199	50.43%	1,268	11.10%
2	Census Block Minority Population Percentage > 4.29% and <= 8.57% (census block group minority population percentage greater than half and less than or equal to countywide or regional minority population percentage)	1,468 people live in these census blocks. Of those, 5.85% are minority.	25,085	18.82%	1,468	12.85%
3	Census Block Minority Population Percentage > 8.57% and <= 17.15% (census block group minority population percentage greater than county minority population percentage and less than or equal to twice the countywide or regional minority population percentage)	2,541 people live in these census blocks. Of those, 12.08% are minority.	21,028	15.78%	2,541	22.24%
4	Census Block Minority Population Percentage > 17.15% and <= 34.30% (census block group minority population percentage greater than twice and less than or equal to four times the countywide or regional minority population percentage)	3,317 people live in these census blocks. Of those, 25.11% are minority.	13,211	9.91%	3,317	29.03%
5	Census Block Minority Population Percentage > 34.30% (census block group minority population percentage greater than four times county minority population percentage)	2,833 people live in these census blocks. Of those, 42.03% are minority.	6,740	5.06%	2,833	24.79%

Figure G-1 shows the distribution of census block groups with low and high concentrations of minority populations. The densest concentrations are in and around the City of Johnstown.

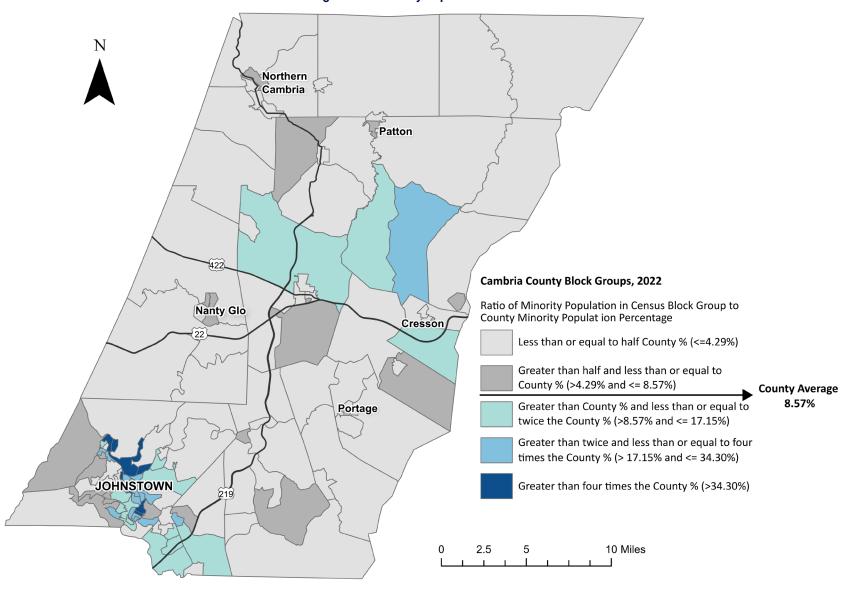


Figure G-1: Minority Populations 2018 -2022

### **Low-Income Intervals for Cambria County MPO**

Data from 2018-2022 American Community Survey 5-Year Estimates were used to evaluate the locations in Cambria County compared to the low-income concentration in the 128 census block groups. The total county population used for this analysis

was 133,263 and the total low-income population was 18,240. In Cambria County, 14.36 percent of the population is low-income. Using that percentage, census blocks were divided into intervals described in Table G-3.

**Table G-3: Low-Income Population Intervals** 

	Low-Income Interval		Total Population	Total Population (%)	Low-Income Population	Low-Income Population (%)
1	Census Block Low-Income Population Percentage <= 7.18% (census block group low-income population percentage less than or equal to half of countywide or regional low-income population percentage)	1,911 people live in these census blocks. Of those, 4.24% people are low-income.	45,114	35.51%	1,911	10.48%
2	Census Block Low-Income Population Percentage > 7.18% and <= 14.36% (census block group low-income population percentage greater than half and less than or equal to countywide or regional low-income population percentage)	3,683 people live in these census blocks. Of those, 10.37% are low-income.	35,528	27.96%	3,683	20.19%
3	Census Block Low-Income Population Percentage > 14.36% and <= 28.71% (census block group low-income population percentage greater than county low-income population percentage and less than or equal to twice the countywide or regional minority population percentage)	6,486 people live in these census blocks. Of those, 21.31% are low-income.	30,430	23.95%	6,486	35.56%
4	Census Block Low-Income Population Percentage > 28.71% and <= 57.42% (census block group low-income population percentage greater than twice and less than or equal to four times the countywide or regional low-income population percentage)	5,853 people live in these census blocks. Of those, 37.72% are low-income.	15,519	12.21%	5,853	32.09%
5	Census Block Low-Income Population Percentage > 57.42% (census block group low-income population percentage greater than four times county low-income population percentage)	307 people live in these census blocks. Of those, 66.02% of those people are low-income.	465	0.37%	307	1.68%

Figure G-2 shows the distribution of census block groups with low and high concentrations of low-income populations. The densest concentrations are in and around the City of Johnstown.

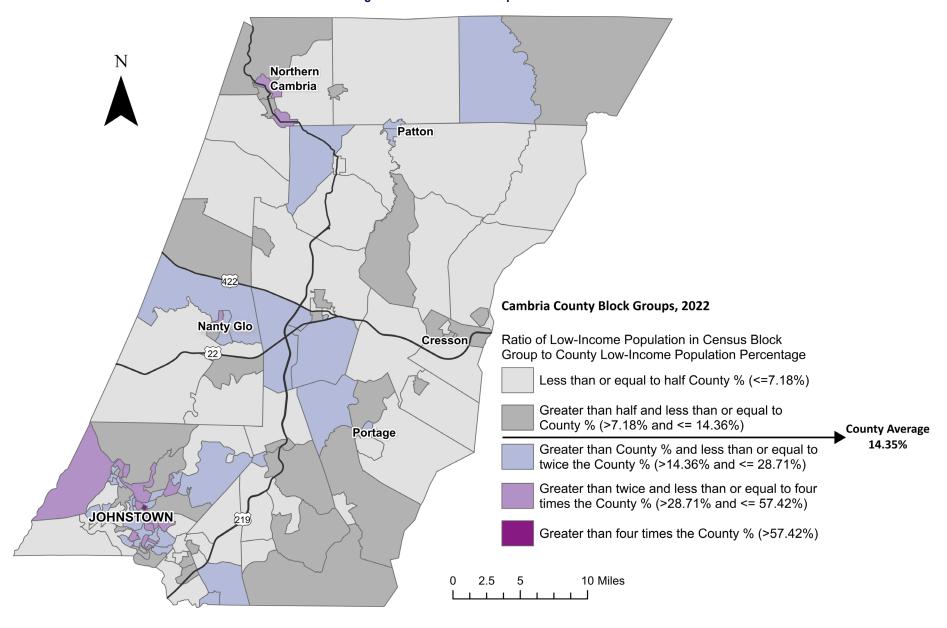


Figure G-2: Low-Income Populations 2018 -2022

#### **Assessment of Current Conditions**

#### **Pavement Condition**

Condition data for pavement assets are compiled by PennDOT's Bureau of Maintenance and Operations (BOMO) and made available through the Roadway Management System (RMS) annually. The primary pavement condition and performance measures are the International Roughness Index (IRI) and the Overall Pavement Index (OPI). IRI is based on the smoothness of the pavement, while

OPI combines a number of pavement factors including IRI to provide a more holistic measure of pavement performance. Condition data is collected on Interstate and NHS roads every year and on all non-NHS roads every two years. For this evaluation, both the IRI and OPI were evaluated for all State Road segments in Cambria County.

Table G-4: Distribution of IRI by Minority Population Interval – Based on 8.57% County Average

					IF	RI Quality Ra	nge				
Minority Interval ID	Exce	llent	Go	od	Fair Poor		or	Other		Total Miles	
	Miles	Percent	Miles	Percent	Miles	Percent	Miles	Percent	Miles	Percent	iotal wiles
Interval 1	162.0	78%	178.1	67%	109.3	73%	83.4	74%	23.0	47%	555.9
Interval 2	12.1	6%	31.5	12%	13.0	9%	11.3	10%	6.9	14%	74.8
Interval 3	32.0	15%	41.1	15%	14.6	10%	10.9	10%	11.2	23%	109.9
Interval 4	2.8	1%	15.5	6%	6.7	5%	4.8	4%	6.7	14%	36.4
Interval 5	0.0	0%	1.5	1%	5.1	3%	3.0	3%	1.5	3%	11.1
Total Roadway Mileage	208.9	100%	267.6	100%	148.9	100%	113.4	100%	49.3	100%	788.0

Table G-5: Distribution of OPI by Minority Population Interval - Based on 8.57% County Average

					OF	Pl Quality Ra	nge				
Minority Interval ID	Exce	llent	Go	od	Fa	Fair F		or	Other		Total Miles
	Miles	Percent	Miles	Percent	Miles	Percent	Miles	Percent	Miles	Percent	iotai miies
Interval 1	103.8	75%	252.1	70%	141.8	74%	49.9	72%	8.1	31%	555.9
Interval 2	12.0	9%	29.8	8%	22.26	12%	5.3	8%	5.4	20%	74.8
Interval 3	20.4	15%	57.2	16%	17.1	9%	8.8	13%	6.2	24%	109.9
Interval 4	2.5	2%	16.6	5%	7.8	4%	4.3	6%	5.1	19%	36.4
Interval 5	0.0	0%	4.6	1%	3.8	2%	1.1	2%	1.4	6%	11.1
Total Roadway Mileage	138.8	100%	360.3	100%	193.0	100%	69.6	100%	26.4	100%	788.0

Table G-6: Distribution of IRI by Low-Income Population Interval - Based on 14.36% County Average

					IR	I Quality Ra	nge				
Low-Income Interval ID	Exce	llent	Go	od	Fair		Poor		Other		Total Miles
	Miles	Percent	Miles	Percent	Miles	Percent	Miles	Percent	Miles	Percent	iorai miles
Interval 1	124.5	60%	141.1	53%	76.8	52%	58.4	52%	21.5	44%	422.3
Interval 2	48.2	23%	67.7	25%	41.0	28%	26.0	23%	7.6	15%	190.5
Interval 3	33.6	16%	49.7	19%	23.0	15%	23.6	21%	14.8	30%	144.7
Interval 4	2.5	1%	9.1	3%	8.1	5%	4.8	4%	5.2	11%	29.7
Interval 5		0%	0.0	0%	0.0	0%	0.6	0%	0.3	1%	0.9
Total Roadway Mileage	208.9	100%	267.6	100%	148.9	100%	113.4	100%	49.3	100%	788.0

Table G-7: Distribution of OPI by Low-Income Population Interval - Based on 14.36% County Average

					01	PI Quality Ra	nge				
Low-Income Interval ID	Exce	llent	Go	od	Fa	air	Poor		Other		Total Miles
	Miles	Percent	Miles	Percent	Miles	Percent	Miles	Percent	Miles	Percent	Total Wiles
Interval 1	72.7	52%	201.2	56%	102.4	53%	36.6	53%	9.5	36%	422.3
Interval 2	38.0	27%	76.6	21%	54.4	28%	17.8	26%	3.7	14%	190.5
Interval 3	26.9	19%	67.9	19%	28.6	15%	11.9	17%	9.4	36%	144.7
Interval 4	1.2	1%	14.4	4%	7.5	4%	2.9	4%	3.6	14%	29.7
Interval 5	0.0	0%	0.2	0%	0.0	0%	0.4	1%	0.3	1%	0.9
Total Roadway Mileage	138.8	100%	360.3	100%	193.0	100%	69.6	100%	26.4	100%	788.0

Of the state road miles evaluated, Cambria County's overall pavement condition is very good. Only 8.83 percent of miles have poor OPI and only 14.39 percent have poor IRI. The remaining are in fair, good, or excellent condition. The overall good quality of the roads is a benefit to all countywide users. Looking more closely at each interval, of all the segment-miles in a high minority area (Interval 5), 9.96 percent of the miles have a poor OPI. To compare, the miles in areas with less diversity (Interval 1), are 8.98 percent poor OPI. However, the size in each interval makes comparisons difficult. Of the 70 miles of poor pavement, only 1 mile of poor OPI was located in high minority concentration areas (Interval 5), and about 15 miles were in minority interval areas 3 to 5 combined. Of all poor-condition roads by OPI, 71.77 percent were in Interval 1 areas.

The same interval size problem occurs when analyzing the pavement condition in low-income areas. There is approximately one mile located in the highest concentration census block of low-income residents (Interval 5). There is not enough data to draw a strong conclusion.

Intervals with poverty rates above the countywide average (Intervals 3, 4, and 5) contain only 22 percent of all roadway miles. Intervals 4 and 5 have just 3.9 percent of total county roadway

milage combined. Although there are much fewer state roadway miles in intervals with higher poverty rates, 17.7 percent of pavement in Intervals 4 and 5 is rated poor for IRI. In Interval 5 (with just 0.9 miles), 54 percent is rated poor for IRI and 33 percent is rated other. There are no miles rated excellent or good in this interval. In comparison, Interval 1 contains 53.6 percent of the county's state roadway miles. Of those miles, 13.8 percent are rated poor and 62.9 percent are rated excellent or good.

Overall, of the state roadway miles, intervals with poverty rates above the countywide average contain 20.2 percent of the roadway mileage rated excellent for OPI in the county and 17.3 percent for IRI. In all, 25.6 percent of the county's poor IRI and 21.8 percent of poor OPI are found in these intervals, despite this interval containing only 22 percent of all roadway miles.

Although there are significantly fewer roadway miles in the block groups with high low-income and minority populations, efforts should be made to create a more equal percentage of ratings among OPI and IRI condition of state roadway miles within each interval. The consideration of resurfacing/repaving projects to poor-condition miles should be focused in areas with higher than the county average of minority and low-income populations.

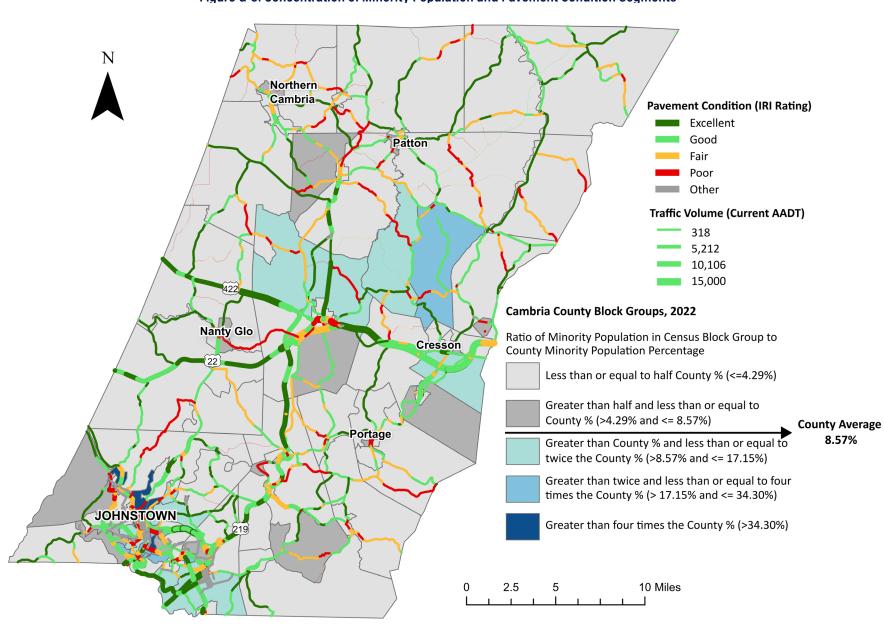


Figure G-3: Concentration of Minority Population and Pavement Condition Segments

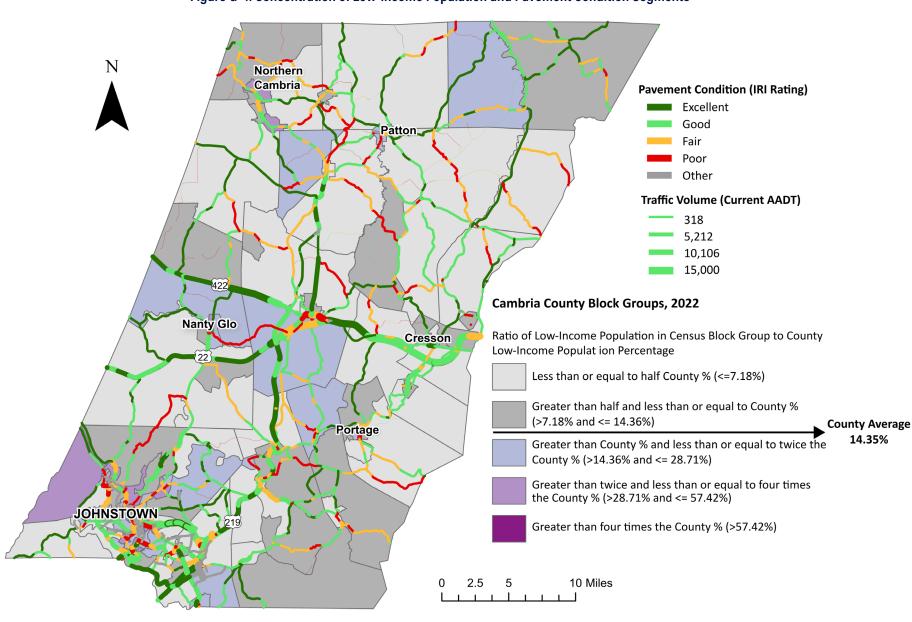


Figure G-4: Concentration of Low-Income Population and Pavement Condition Segments

## **Bridge Condition**

Bridge condition data was collected from PennDOT's Bridge Management System 2 (BMS2). The portal contains inspection data for bridges over 20 feet in length using National Bridge Inspection Standards (NBIS). The inspection process rates the

deck, superstructure, and substructure separately. If one of those elements is in poor condition, the entire bridge is rated in poor condition. The total number of bridges in Cambria County is 421. Of these, 25, or 5.9 percent, are in poor condition.

Table G-8: Distribution of Bridge Condition by Minority Population Interval – Based on 8.57% County Average

	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	TOTAL
Total Population	67,199	25,085	21,028	13,211	6,740	133,263
Total Population (in %)	50.43%	18.82%	15.78%	9.91%	5.06%	100%
Minority Population	1,268	1,468	2,541	3,317	2,833	11,427
Minority Population (in %)	11.10%	12.85%	22.24%	29.03%	24.79%	100%
All Bridges	279	50	38	37	17	421
All Bridges in (%)	66.3%	11.9%	9.0%	8.8%	4.0%	100.0%
All Poor Bridges	14	4	2	3	2	25
All Poor Bridges (%)	56.0%	16.0%	8.0%	12.0%	8.0%	100.0%
All Bridges Total Deck Area	774,105	111,598	297,695	103,510	422,295	1,709,204
All Bridges Total Deck Area (%)	45.3%	6.5%	17.4%	6.1%	24.7%	100.0%
All Poor Deck Area	17,199	4,977	20,907	3,468	28,707	75,258
All Poor Deck Area (%)	22.9%	6.6%	27.8%	4.6%	38.1%	100.0%
State Bridges	230	36	35	21	12	334
State Bridges (%)	68.9%	10.8%	10.5%	6.3%	3.6%	100.0%
Poor State Bridges	5	1	2	0	1	9
Poor State Bridges (%)	55.6%	11.1%	22.2%	0.0%	11.1%	100.0%
Local Bridges	49	14	3	16	5	87
Local Bridges (%)	56.3%	16.1%	3.4%	18.4%	5.7%	100.0%
Poor Local Bridges	9	3	0	3	1	16
Poor Local Bridges (%)	56.3%	18.8%	0.0%	18.8%	6.3%	100.0%

Table G-9: Distribution of Bridge Condition by Low-Income Population Interval - Based on 14.36% County Average

lable a el blet	induction of bridge condition		•			
	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	TOTAL
Total Population	45,114	35,528	30,430	15,519	465	127,056
Total Population (in %)	35.51%	27.96%	23.95%	12.21%	0.37%	100%
Low-Income Population	1,911	3,683	6,486	5,853	307	18,240
Low Income Population (in %)	10.48%	20.19%	35.56%	32.09%	1.68%	100%
All Bridges	169	112	96	43	1	421
All Bridges in (%)	40.1%	26.6%	22.8%	10.2%	0.2%	100%
All Poor Bridges	7	8	4	6	0	25
All Poor Bridges (%)	28.0%	32.0%	16.0%	24.0%	0.0%	100%
All Bridges Total Deck Area	555,272	370,956	620,996	152,304	9,676	1,709,204
All Bridges Total Deck Area (%)	32.5%	21.7%	36.3%	8.9%	0.6%	100%
All Poor Deck Area	22,844	13,721	32,024	6,669	-	75,258
All Poor Deck Area (%)	30.4%	18.2%	42.6%	8.9%	0.0%	100%
State Bridges	143	87	77	26	1	334
State Bridges (%)	42.8%	26.0%	23.1%	7.8%	0.3%	100%
Poor State Bridges	5	2	2	0	0	9
Poor State Bridges (%)	55.6%	22.2%	22.2%	0.0%	0.0%	100%
Local Bridges	26	25	19	17	-	87
Local Bridges (%)	29.9%	28.7%	21.8%	19.5%	0.0%	100%
Poor Local Bridges	2	6	2	6	0	16
Poor Local Bridges (%)	12.5%	37.5%	12.5%	37.5%	0.0%	100%

Overall, Cambria County bridges are in good condition, which is a benefit to everyone in Cambria County. As with pavement, sample size poses a challenge in evaluating the environmental justice of bridge condition. Seventy-eight (78) percent of all bridges are located in areas with few minority concentrations (intervals 1 and 2) and 60 percent of all bridges are located in areas with few low-income concentrations (intervals 1 and 2).

In areas with higher-than-average minority population (intervals 3, 4, and 5) of the 92 bridges in the census blocks, only seven are in poor condition. In areas with higher-than-average low-income

population (intervals 3, 4, and 5) of the 140 bridges, only 10 are in poor condition.

In census blocks where the minority population is higher than the average (intervals 3, 4, and 5), only three out of 68 state bridges are in poor condition. Similarly, in areas where the low-income population is higher than the average (intervals 3, 4, and 5), only two out of 104 state bridges are in poor condition.

No disproportionately high impacts to low-income and minority populations were found for bridge condition.

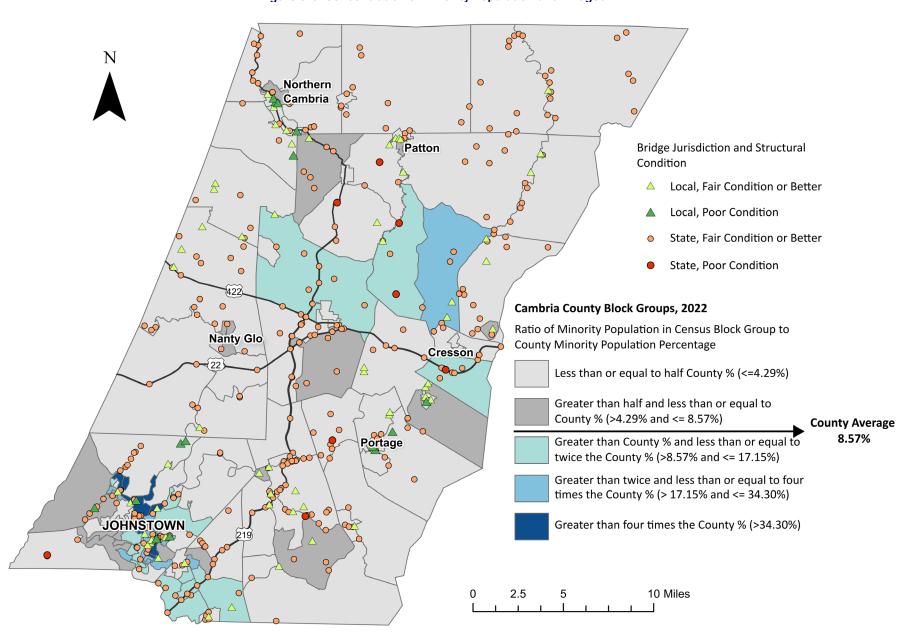


Figure G-5: Concentration of Minority Population and Bridges

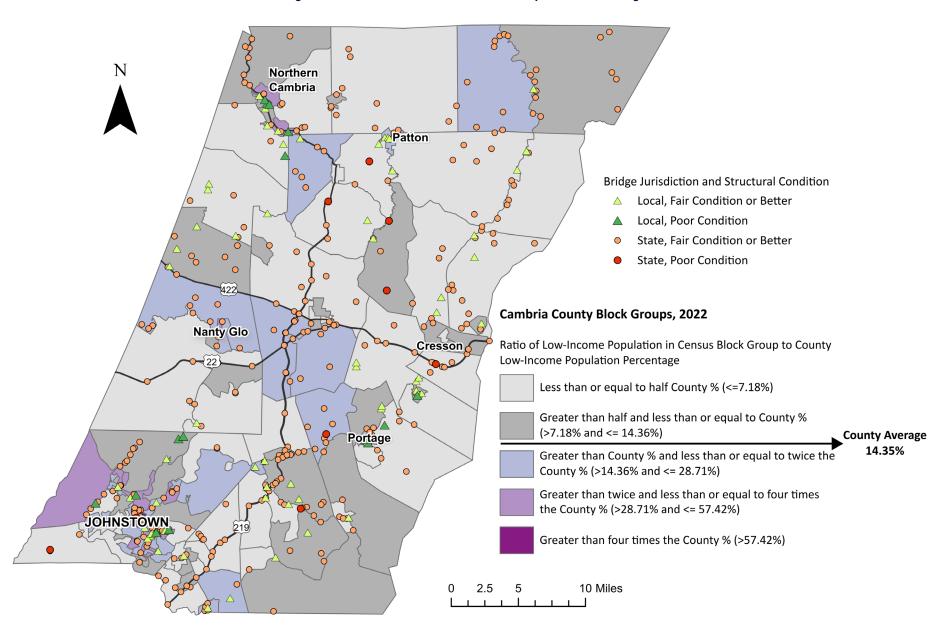


Figure G-6: Concentration of Low-Income Population and Bridges

# **Injury and Fatal Vehicular Crashes**

Statewide crash data is collected by PennDOT and made publicly available through the Pennsylvania Crash Information Tool (PCIT). The most recent data available at the time of this analysis was from January 2018 to December 2022. The total number

of reportable crashes in Cambria County for that period was 5,324. This includes vehicular crash fatalities and suspected serious injury crashes, crashes in which a person on a bicycle was involved, and crashes in which a pedestrian was involved.

Table G-10: Distribution of Crashes (2018-2022) by Minority Population Interval – Based on 8.57% County Average

Minority Population Interval	All Reportable Crashes	Fatal Crashes	Suspected Serious Injuries Crashes	Percent Reportable Crashes	Percent Fatality	Percent Serious Injury Crash
1	2,815	29	111	52.9%	59.6%	53.1%
2	647	7	28	12.2%	14.9%	13.4%
3	1,005	5	27	18.9%	10.6%	12.9%
4	526	5	31	9.9%	10.6%	14.8%
5	331	1	12	6.2%	2.1%	5.7%
Total	5,324	47	208	100%	100%	100%

Table G-11: Distribution of Crashes (2018-2022) by Low-Income Population Interval - Based on 14.36% County Average

			<u> </u>			
Low-Income Population Interval	All Reportable Crashes	Fatal Crashes	Suspected Serious Injuries Crashes	Percent Reportable Crashes	Percent Fatality	Percent Serious Injury Crash
1	2,351	28	84	44.2%	59.6%	40.2%
2	1,115	9	45	20.9%	19.1%	21.5%
3	1,233	7	48	23.2%	14.9%	23.0%
4	597	3	28	11.2%	6.4%	13.4%
5	28	0	4	0.5%	0.0%	1.9%
Total	5,324	47	209	100%	100%	100%

Of the reported vehicular fatalities and serious injuries, 81 (31.6 percent) took place within census block groups with higher-than-average minority population, and 90 (35.2 percent) were located within block groups with higher-than-average low-income population. Unlike bridges or pavement, vehicular crashes are not necessarily tied to a specific location. A person with a

low income could be in a crash in an area with a high-income population. However, safety for all is the highest priority of the Cambria County MPO's 2050 Long-Range Transportation Plan and it is clear that more can be done to improve safety in areas with low-income and minority populations.

#### **Non-Motorized Crashes**

Non-motorized crashes were evaluated. The data in the charts below show the number of people riding a bicycle or walking who were involved in crashes. The data also shows the number of fatalities and serious injuries that occurred.

Table G-12: Distribution of Crashes (2018-2022) by Minority Population Interval - Based on 8.57% County Average

Minority		Bicycle			Pedestrian		Total Bicycle-	Percent
Population Interval	Total Crashes	Fatalities	Suspected Serious Injuries	Total Crashes	Fatalities	Suspected Serious Injuries	Pedestrian Crashes	Bicycle-Pedestrian Crashes
1	6	0	2	24	3	2	30	27.0%
2	3	0	0	11	1	2	14	12.6%
3	3	0	1	24	1	4	27	24.3%
4	4	0	2	21	0	7	25	22.5%
5	3	0	0	12	0	1	15	13.5%
Total	19	0	5	92	5	16	111	100%

Table G-13: Distribution of Crashes (2018-2022) by Low-Income Population Interval - Based on 14.36% County Average

Low-Income	Bicycle				Pedestrian		Total Ricyclo	Percent
Population Interval	Total Crashes	Fatalities	Suspected Serious Injuries	Total Crashes	Fatalities	Suspected Serious Injuries	Total Bicycle- Pedestrian Crashes	Bicycle-Pedestrian Crashes
1	5	0	1	16	5	2	21	18.9%
2	3	0	1	15	0	2	18	16.2%
3	8	0	1	37	0	5	45	40.5%
4	3	0	2	20	0	4	23	20.7%
5	0	0	0	4	0	3	4	3.6%
Total	19	0	5	92	5	16	111	100%

Of the reported bicycle and pedestrian crashes, 67 (60.4 percent) took place within census block groups with higher-than-average minority population, and 72 (64.9 percent) were located within block groups with higher-than-average low-income population. These numbers indicate that the majority of bicycle and pedestrian crashes occur in the higher-than-average minority and low-income block groups. More needs to be done to improve no-motorized safety in these areas.

As noted above, safety is the top priority for this LRTP. The MPO will continue to address safety issues while collaborating with PennDOT and other organizations with a role in transportation safety. Safety initiatives for implementation across the county include:

- Plan for improved traffic incident management.
- Identify priority roadway corridors and intersections for safety improvements.
- Assist in updating the bike-ped plan, which was last updated in 2021.
- Incorporate Vulnerable Road User (VRU) data into planning decisions and project listings.

The Cambria County MPO will consider the disproportionate distribution of bicycle and pedestrian crashes while implementing these strategies.

#### **Condition Summary**

The physical asset maintenance in Cambria County is overall very good. This, in turn, lowers the amount of poor pavement miles and poor bridges that are located in higher-than-average (intervals 3, 4, and 5) low-income and minority census blocks. Motorized vehicle crashes, both fatal and injury-causing, are prevalent in all census block groups. While the causes of crashes are diverse, the 2023-2026 Highway/Bridge TIP contains many safety-focused projects discussed in the Performance Management section.

More than half of all non-motorized crashes involving people walking or riding a bicycle occurred in environmental justice population areas. While the county has been working on a number of initiatives including Connecting Cambria Bicycle and Pedestrian Plan, Connecting Cambria 2.0, and Bicycle Level of Service and Trail mapping products have been produced, it is clear from the numbers that more work needs to be done to address these problems. The expansion of HSIP funding with the IIJA/BIL legislation in 2021 expanded eligibility to "vulnerable road users" and will be able to be used to address non-motorized safety issues going forward.

#### **Transit**

The Cambria Transit Authority (CamTran) is especially focused on reaching environmental justice populations. Transit stops in each minority and low-income interval are shown in Tables G-14 and G-15. CamTran provides paratransit service throughout all of Cambria County, on a shared-ride basis, utilizing vehicles owned and operated by CamTran.

The public transportation projects on the 2023-2026 Transit TIP do not affect a specific geographic location. Thus, the transit projects are not included on the project maps.

Investing in public transit can provide more transportation options, expanding access to jobs, healthcare, and other essential destinations. CamTran's Local Coordinated Plan helps serve underserved populations through public transit.

Table G-14: Minority Transit Stops by Interval – Based on 8.57% County Average

	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	TOTAL
<b>Transit Stops</b>	174	80	108	114	89	565
Transit Stops (%)	31%	14%	19%	20%	16%	100%

Table G-15: Low-Income Transit Stops by Interval – Based on 14.36% County Average

	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	TOTAL
Transit Stops	119	93	202	144	7	565
Transit Stops (%)	21%	16%	36%	25%	1%	100%

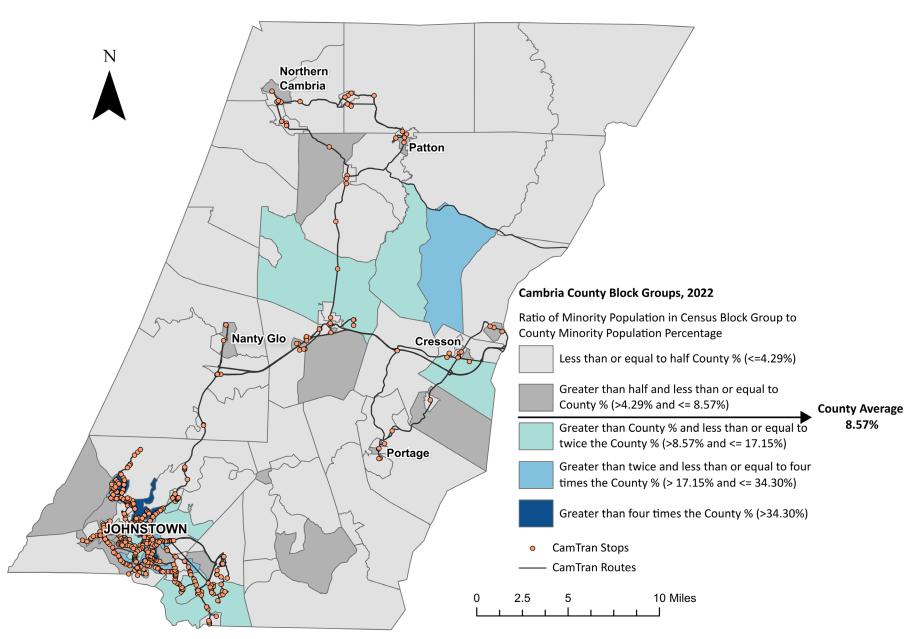


Figure G-7: Concentration of Minority Population and Transit Stops

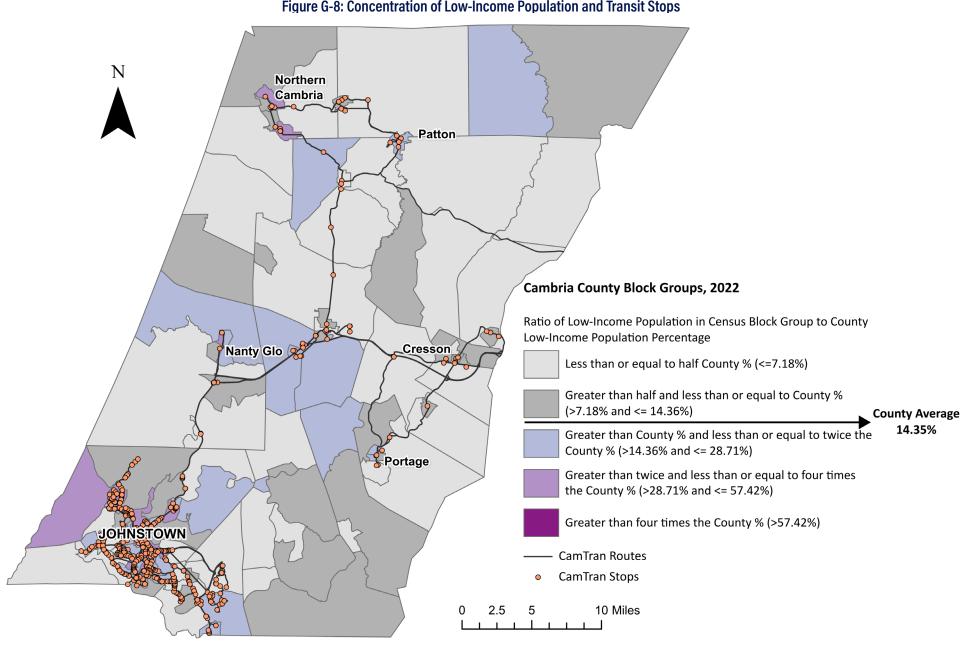


Figure G-8: Concentration of Low-Income Population and Transit Stops

#### **Benefits and Burdens**

The benefits that the Transportation Improvement Program (TIP) can provide to low-income and minority populations in Cambria County include improved access, mobility, safety, and environmental quality. The burdens of the program can be a reduction in any of those areas to a community. All conditions were overlaid onto low-income and minority concentration maps and tables.

To identify and address these benefits and burdens, a qualitative analysis of the 2025-2028 Highway/Bridge and Transit projects was undertaken.

While poor-condition bridges were fairly distributed in areas with low minority and low-income concentrations, the Cambria MPO continues to maintain all bridges safely. In addition to TIP base funds for bridge repair, the IIJA/BIL introduced a new bridge funding category—BRIP. Cambria County also administers programs for bridges owned by municipalities. These are the Cambria County At-Risk Bridge Program and the \$5 Local Use Fee Program. These programs further enhance the condition of bridges throughout Cambria County.

For vehicular safety project selection, the MPO and PennDOT rely on the Network Screening Tool to evaluate locations where safety improvements are needed. These projects are selected to receive federal HSIP funds.

Injury or fatal crashes and pedestrian and bicycle crashes have a high concentration in low-income and minority population areas. This will be taken into consideration as projects in those areas move forward. Safety improvements such as accessible pedestrian signals, ADA curve ramps, widening shoulders, repairing sidewalks, and adding pedestrian refuge islands will be incorporated into projects wherever possible. The MPO will also work to advance the bike routes identified Cambria's Active Transportation Plan and the 2050 Long-Range Transportation Plan. Walking trails, bike lane recommendations, and sidewalk gaps are some of the issues the plans addressed.

#### 2025-2028 Highway and Bridge Projects

All projects in the Draft 2025-2028 Highway/Bridge TIP (4 years) were overlaid onto the environmental justice maps, as discussed, following. Not all projects have a specific location.

# **Qualitative Evaluation of TIP Projects**

A qualitative evaluation of the 2025-2028 Highway and Bridge Program was undertaken to evaluate the potential adverse effects of the program that disproportionately impact minority and low-income populations. A few of these adverse effects could include destruction or disruption of community cohesion or a community's economic vitality, increased traffic congestion, isolation, exclusion or separation of minority or low-income individuals within a given community or from the broader community, destruction or disruption of the availability of public and private facilities and services, adverse employment effects, or destruction or disruption of human-made or natural resources.

The Cambria County MPO reviewed transportation projects located in areas that were determined to be "high minority" or "high in-poverty." "High minority," for the purpose of this analysis, refers to census block groups that have a concentration of minority persons that is greater than or equal to the county average of 8.57 percent. "High in-poverty" refers to census block groups that have a concentration of low-income persons that is greater than or equal to the county average of 14.35 percent.

The projects were categorized by their potential to impact minority and low-income populations. Knowing a project's impact type clarifies the implications of its location near these populations. Some projects may deliver countywide benefits in terms of improved mobility and accessibility but have localized adverse effects that may be borne by minority and low-income populations in proximity to the project.

Tables G-16 and G-17 detail the estimated total cost of each project type, the percentage of the total cost, and the total per-capita cost.

Table G-16: Minority Intervals and Estimated Cost by Project Type

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Percent Minority by Block Group Interval		Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	TOTAL
	Total Population	67,199	25,085	21,028	13,211	6,740	133,263
Population Share by	Share of Total Population	50%	19%	16%	10%	5%	
Interval	Minority Population	1,268	1,468	2,541	3,317	2,833	11,427
	Share of Minority Population	11%	13%	22%	29%	25%	
Bridge Projects	Amount of Estimated Funding	\$34,344,013	\$2,658,237	\$5,531,291	\$1,477,000	\$4,670,071	\$48,680,612
(Bridge Preservation - Federal, Bridge Replacement, and Bridge Restoration)	Percentage of Funding	70.5%	5.5%	11.4%	3.0%	9.6%	
Highway Projects	Amount of Estimated Funding	\$48,742,015	\$4,858,914	\$7,534,603	\$1,071,101	\$1,313,571	\$63,520,204
(Highway Restoration)	Percentage of Funding	76.7%	7.6%	11.9%	1.7%	2.1%	Ψ00,020,204
<b>Maintenance Projects</b>	Amount of Estimated Funding	\$3,870,802		\$310,863	\$7,958	\$31,180	\$4,220,802
(Preventative Maintenance)	Percentage of Funding	91.7%	0.0%	7.4%	0.2%	0.7%	
Safety Projects	Amount of Estimated Funding	\$1,925,183	\$938,361	\$3,006,456	\$448,490	\$51,510	\$6,370,000
(Rail Highway Grade Crossing, Safety Improvement)	Percentage of Funding	30.2%	14.7%	47.2%	7.0%	0.8%	\$0,370,000
	Amount of Estimated Funding	\$88,882,013	\$8,455,512	\$16,383,212	\$3,004,549	\$6,066,331	\$122,791,617
All Projects	Percentage of Funding	72.4%	6.9%	13.3%	2.4%	4.9%	
	Per-Capita Funding	\$1,323	\$337	\$779	\$227	\$900	\$3,566

Table G-17: Low-Income Intervals and Estimated Cost by Project Type

Percent Low-Income by Block Group Interval		Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	TOTAL
	Total Population	45,114	35,528	30,430	15,519	465	127,056
Population Share by	Share of Total Population	36%	28%	24%	12%	0%	
Interval	Minority Population	1,911	3,683	6,486	5,853	307	18,240
	Share of Minority Population	10%	20%	36%	32%	2%	
Bridge Projects	Amount of Estimated Funding	\$22,447,342	\$8,334,485	\$10,169,051	\$7,729,734	\$0	\$48,680,612
(Bridge Preservation - Federal, Bridge Replacement, and Bridge Restoration)	Percentage of Funding	46.1%	17.1%	20.9%	15.9%	0.0%	
Highway Projects	Amount of Estimated Funding	\$32,337,780	\$13,079,110	\$16,870,956	\$1,232,357		\$63,520,204
(Highway Restoration)	Percentage of Funding	50.9%	20.6%	26.6%	1.9%	0.0%	
Maintenance Projects	Amount of Estimated Funding	\$826,000		\$3,386,844	\$7,958		\$4,220,802
(Preventative Maintenance)	Percentage of Funding	19.6%	0.0%	80.2%	0.2%	0.0%	
Safety Projects	Amount of Estimated Funding	\$3,824,244	\$0	\$2,480,582	\$6,641	\$58,533	\$6,370,000
(Rail Highway Grade Crossing, Safety Improvement)	Percentage of Funding	60.0%	0.0%	38.9%	0.1%	0.9%	
				,			
	Amount of Estimated Funding	\$59,435,367	\$21,413,595	\$32,907,433	\$8,976,689	\$58,533	\$122,791,617
All Projects	Percentage of Funding	48.4%	17.4%	26.8%	7.3%	0.0%	
	Per-Capita Funding	\$1,317	\$603	\$ 1,081	\$578	\$126	\$3,706

# Table G-18: Types of Impacts on Low-Income and Minority Populations

High potential for adverse impacts	These may include major capital/capacity-adding or new right-of-way projects.		
Medium potential for adverse impacts/potentially beneficial	These may include roadway and bridge maintenance projects.		
Low potential for adverse impact/inherently beneficial	These may include transit, bike-ped, safety, or studies.		

Table G-19: Impacts from the Draft 2025 TIP on Low-Income and Minority Populations - Based on Minority 8.57% and Low-Income 14.35% County Averages

MPMS#	Project Title	Minority Interval	Low-Income Interval	Project Type	Impact
107229	PA 53 - SR 3024 to PA 164	Interval 1	Interval 3	Highway Restoration	Medium
108162	PA 756 - PA 403 to SR 301	Interval 5	Interval 4	Highway Restoration	Medium
110119	PA 756 - Lamberd Ave to A	Interval 4	Interval 2	Highway Restoration	Medium
110424	US 22 - SR 4031 to PA 164	Interval 3	Interval 3	Highway Restoration	Medium
110437	US 219 - PA 53 to US 422	Interval 1	Interval 3	Highway Restoration	Medium
113997	US 22 - PA 164 to Blair C	Interval 3	Interval 2	Highway Restoration	Low
114001	PA 756 - Alvin St to Indu	Interval 3	Interval 3	Safety Improvement	Medium
114040	Sidman PA160 Super Repl 1	Interval 2	Interval 2	Bridge Restoration	Medium
114041	Sidman PA160 Super Repl 2	Interval 2	Interval 2	Bridge Restoration	Medium
114043	Mount Airy Drive over US	Interval 1	Interval 1	Bridge Restoration	Medium
116926	US 219 - PA 56 to PA 53	Interval 1	Interval 2	Highway Restoration	Medium
117007	US 22 Segment 351 Over No	Interval 3	Interval 1	Bridge Restoration	Medium
117008	US 22 Segment 350 Over No	Interval 3	Interval 1	Bridge Restoration	Medium
117012	PA 271 Over North Branch	Interval 1	Interval 1	Bridge Restoration	Medium
117016	US 219 Abandoned Railroad	Interval 1	Interval 1	Preventive Maintenance	Medium
117089	Iron Street over Hincksto	Interval 5	Interval 4	Bridge Restoration	Medium
117119	PA 56 - PA 403 to 2nd Av	Interval 5	Interval 4	Highway Restoration	Medium
117761	US 219 Bridge Preservatio	Interval 2	Interval 3	Bridge Preservation - Federal	Medium
119242	PA 160 Slide North of Wil	Interval 1	Interval 3	Preventive Maintenance	Medium
119278	PA 271 Menoher Boulevard	Interval 5	Interval 4	Preventive Maintenance	Medium
120394	8th Street Bridge over Fo	Interval 1	Interval 4	Bridge Restoration	Medium
120425	SR 4019 over Little Chest	Interval 1	Interval 1	Bridge Restoration	Medium

MPMS#	Project Title	Minority Interval	Low-Income Interval	Project Type	Impact
120428	SR 4002 over Little Elk C	Interval 1	Interval 2	Bridge Restoration	Medium
120430	SR 1025 over Burgoon Run	Interval 1	Interval 1	Bridge Restoration	Medium
120431	SR 3041 (BRKEY 8665) over	Interval 1	Interval 2	Bridge Restoration	Medium
120432	PA 271 over Little Conema	Interval 5	Interval 4	Bridge Restoration	Medium
120552	SR 3027 over PA 56	Interval 4	Interval 4	Bridge Restoration	Medium
121384	SR 271 Clinton Street Cro	Interval 5	Interval 5	Rail Highway Grade Crossing	Low
22338	SR 4007 over California R	Interval 1	Interval 1	Bridge Restoration	Medium
22380	Sonman Avenue over Trout	Interval 2	Interval 3	Bridge Restoration	Medium
22391	T-406 Jamestown Rd over N	Interval 1	Interval 1	Bridge Restoration	Medium
22491	Franklin Borough Clapboar	Interval 1	Interval 3	Bridge Restoration	Medium
22532	SR 3035 over Little Conem	Interval 1	Interval 3	Bridge Restoration	Medium
22570	N Br Conemaugh Rn Br	Interval 1	Interval 1	Bridge Restoration	Medium
22595	SR 2015 over Little Conem	Interval 2	Interval 1	Bridge Restoration	Medium
22622	PA 53 Pattys Run Bridge	Interval 1	Interval 1	Bridge Restoration	Medium
22633	SR 1027 over Burgoon Run	Interval 1	Interval 3	Bridge Restoration	Medium
67240	T-513 over West Branch of	Interval 2	Interval 3	Bridge Restoration	Medium
88597	Brubaker Run Bridge	Interval 1	Interval 1	Bridge Replacement	High
88696	PA160 Conemaugh Rvr Culv	Interval 1	Interval 3	Bridge Restoration	Medium
91675	PA271 Susquehanna Rvr Br	Interval 1	Interval 4	Bridge Restoration	Medium
92692	PA160 Laurel Run Brdg #3	Interval 1	Interval 2	Bridge Restoration	Medium
94468	PA 271 Elk Creek Bridge	Interval 1	Interval 2	Bridge Restoration	Medium
94469	PA 271 Browns Run Bridge	Interval 1	Interval 1	Bridge Restoration	Medium
94491	N Patton Chest Creek Brdg	Interval 1	Interval 3	Bridge Restoration	Medium
96489	Moss Crk Rd-Indiana Co Li	Interval 2	Interval 4	Highway Restoration	Medium
98750	Bradley Run Bridge	Interval 1	Interval 1	Bridge Restoration	Medium
98753	PA 53 Lost Creek Bridge	Interval 1	Interval 1	Bridge Restoration	Medium
98762	Lloydsville Run Bridge	Interval 1	Interval 2	Bridge Restoration	Medium
98764	PA865 Powell Run Bridge	Interval 1	Interval 2	Bridge Restoration	Medium

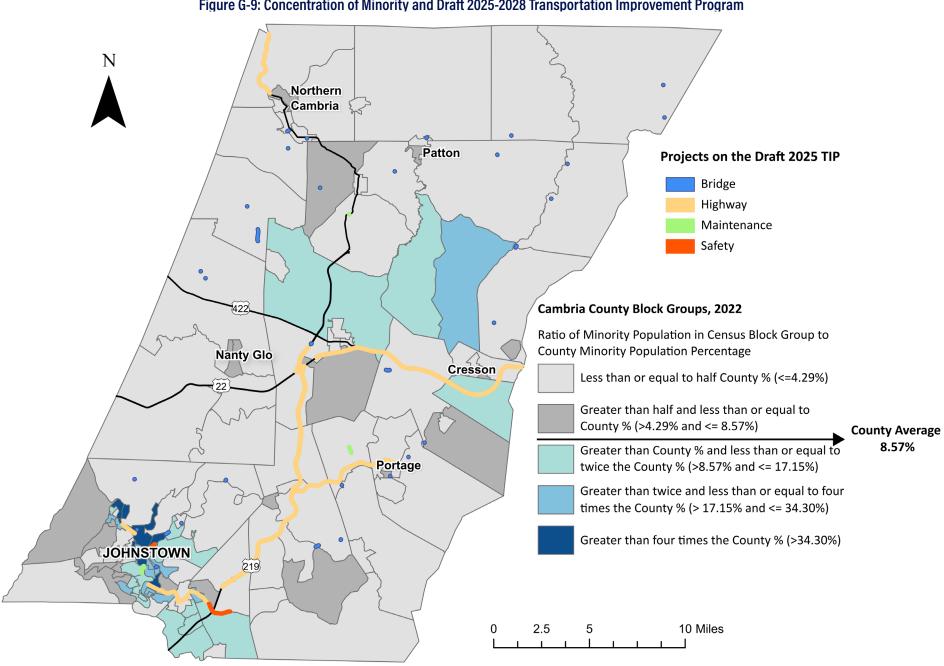


Figure G-9: Concentration of Minority and Draft 2025-2028 Transportation Improvement Program

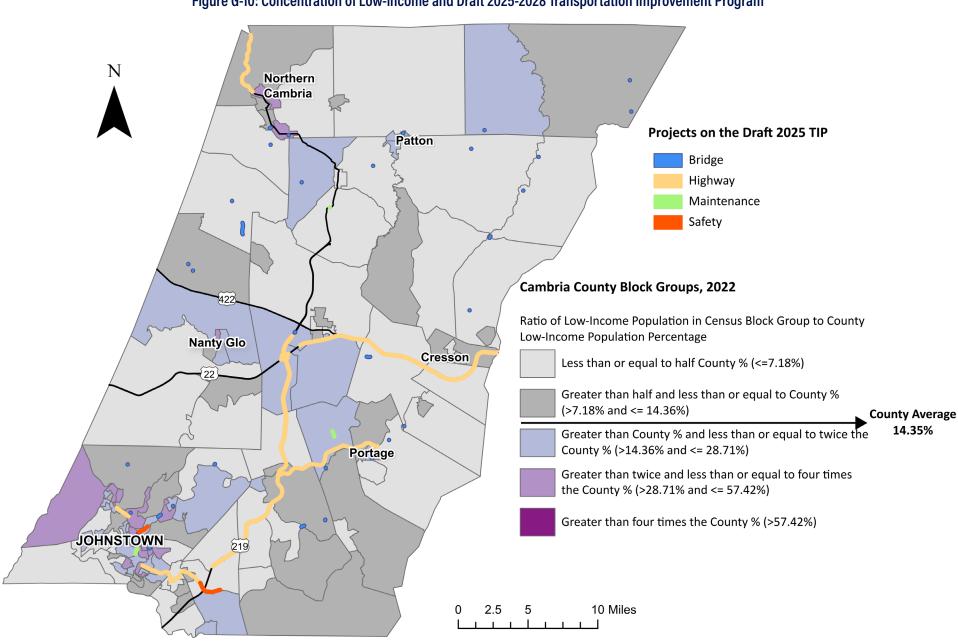


Figure G-10: Concentration of Low-Income and Draft 2025-2028 Transportation Improvement Program

#### **Conclusions**

Based on the qualitative analysis, most projects will not require significant right-of-way acquisition, require the displacement of people, or cause burdens on the mobility, access, or environmental health of any community or population group. This is because most of the Highway and Bridge TIP is programmed to maintain the existing transportation system.

Most of the projects in the bridge and pavement categories of are believed to have some potential adverse or beneficial impact (Medium impact) on minority or low-income populations. More evaluation is required at each project. This is being done through the PennDOT Connects process.

Finally, some projects were labeled low impact. Transit projects and small safety projects such as railroad warning signs and ITS devices have little potential to have adverse impacts. Those projects with a fixed location are not located in areas with more than average low-income and minority populations. Overall, the 2025-2028 Cambria MPO Transportation Improvement Program will not exacerbate any of the existing conditions or place undue burden on any population.

# Appendix H: Acronyms

AADT .... Annual Average Daily Traffic ACS ..... American Community Survey (U.S. Census Bureau) ADA ..... Americans with Disabilities Act of 1990 ADT ..... Average Daily Traffic AFC..... Alternative Fuels Corridor AQ ..... Air Quality ARC..... Appalachian Regional Commission ATV..... All-Terrain Vehicle BAMS ... Bridge Asset Management System BIL ..... Bipartisan Infrastructure Law BMP .... Best Management Practice BOF..... Bridge Off-System Funding BPN ..... Business Plan Network BRIP..... Bridge Formula Investment Program CCPC .... Cambria County Planning Commission

CCCRA... Cambria County Conservation & Recreation

CMAQ ... Congestion Mitigation and Air Quality

Authority

CCMPO . . Cambria County Metropolitan Planning Organization CNG ..... Compressed Natural Gas CRP..... Carbon Reduction Program CRFC .... Critical Rural Freight Corridors CSA..... Combined Statistical Area CSXT .... CSX Transportation CUFC .... Critical Urban Freight Corridors DVMT.... Daily Vehicle-Miles Traveled EJ ..... Environmental Justice EV ..... Electric Vehicle FAA ..... Federal Aviation Administration FAST .... Fixing America's Surface Transportation Act FFY ..... Federal Fiscal Year FHWA ... Federal Highway Administration HSIP .... Highway Safety Improvement Program ICM..... Integrated Corridor Management IRI ..... International Roughness Index

ITS..... Intelligent Transportation Systems

JST ..... John Murtha Johnstown-Cambria County Airport LCP..... Local Coordinated Plan LLCC..... Lowest Life-Cycle Cost LOTTR ... Level of Travel Time Reliability LQ..... Location Quotient LRTP .... Long-Range Transportation Plan LVRJ . . . . Lehigh Valley Railroad Johnstown MAP-21 . . Moving Ahead for Progress in the 21st Century Act MPO .... Metropolitan Planning Organization MSA.... Metropolitan Statistical Area NAICS ... North American Industry Classification System NHFP.... National Highway Freight Program NHPP ... National Highway Performance Program NHS ..... National Highway System NS..... Norfolk Southern NWI ..... National Wetlands Inventory OPI ..... Overall Pavement Index

PA ..... Pennsylvania

PAMS ... Pavement Asset Management System

PennDOT Pennsylvania Department of Transportation

PNDI .... Pennsylvania Natural Diversity Inventory

RAISE.... Rebuilding American Infrastructure with Sustainability and Equity Grant Program

RJCP..... R.J. Corman Railroad/Pennsylvania Lines

ROP ..... Regional Operations Plan

RPO ..... Rural Planning Organization

SPC..... Southwestern Pennsylvania Commission

SR..... State Route

STC ..... State Transportation Commission

STP ..... Surface Transportation Program

TIP ..... Transportation Improvement Program

TMDL ... Total Maximum Daily Load

TSMO ... Transportation System Management & Operations

TYP ..... 12-Year Program

UAV..... Unmanned Aerial Vehicle

USDOT... United States Department of Transportation

VRU ..... Vulnerable Roadway Users