DRAFT
For Public Comment during September 21 - October 5, 2022

APPENDIX

PENNSYLVANIA

2045 Freight Movement Plan

pennsylvania
DEPARTMENT OF TRANSPORTATION

PUB 791A (09-22)

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Appendix 1

National Multimodal Freight Policy

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49 U.S.C. § 70101

(a) In General.—
It is the policy of the United States to maintain and improve the condition and performance of the National Multimodal Freight Network established under section 70103 to ensure that the Network provides a foundation for the United States to compete in the global economy and achieve the goals described in subsection (b).

(b) Goals.—The goals of the national multimodal freight policy are—

(1) to identify infrastructure improvements, policies, and operational innovations that—

(A) strengthen the contribution of the National Multimodal Freight Network to the economic competitiveness of the United States;

(B) reduce congestion and eliminate bottlenecks on the National Multimodal Freight Network; and

(C) increase productivity, particularly for domestic industries and businesses that create high-value jobs;

(2) to improve the safety, security, efficiency, and resiliency of multimodal freight transportation;

(3) to achieve and maintain a state of good repair on the National Multimodal Freight Network;

(4) to use innovation and advanced technology to improve the safety, efficiency, and reliability of the National Multimodal Freight Network;

(5) to improve the economic efficiency and productivity of the National Multimodal Freight Network;

(6) to improve the reliability of freight transportation;

(7) to improve the short- and long-distance movement of goods that—

(A) travel across rural areas between population centers;

(B) travel between rural areas and population centers; and

(C) travel from the Nation's ports, airports, and gateways to the National Multimodal Freight Network;

(8) to improve the flexibility of States to support multi-State corridor planning and the creation of multi-State organizations to increase the ability of States to address multimodal freight connectivity;

(9) to reduce the adverse environmental impacts of freight movement on the National Multimodal Freight Network; and

(10) to pursue the goals described in this subsection in a manner that is not burdensome to State and local governments.

(c) Implementation.—
The Under Secretary of Transportation for Policy, who shall be responsible for the oversight and implementation of the national multimodal freight policy, shall—

(1) carry out sections 70102 and 70103;

(2) assist with the coordination of modal freight planning; and

(3) identify interagency data sharing opportunities to promote freight planning and coordination.

(Added Pub. L. 114–94, div. A, title VIII, § 8001(a), Dec. 4, 2015, 129 Stat. 1605.)

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Appendix 2

Regional Freight Profiles

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PLANNING PARTNER **Freight Profile**

PennDOT Virtual Statewide Freight Forum • November 5, 2020

ACTPO

Adams County Transportation Planning Organization

METRICS

Linear Miles of Roadway
1,422.77

Daily Vehicle Miles of Travel (DVMT)
2.47 Million

Truck DVMT
207,178

National Highway System (NHS) Mileage
68.5

PennDOT Pub. 600

ROADS

Interstates
None

US Routes
15, 30

Select PA Route
94

RAILROAD

Passenger, Commuter, Tourist
None

Class I
CSX Transportation

Class II
None

Short Line
Gettysburg and Northern Railroad

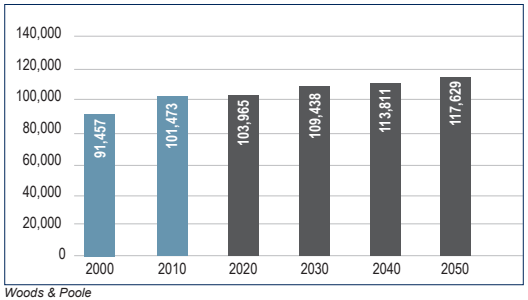
COMMERCIAL RUNWAY

None

POPULATION

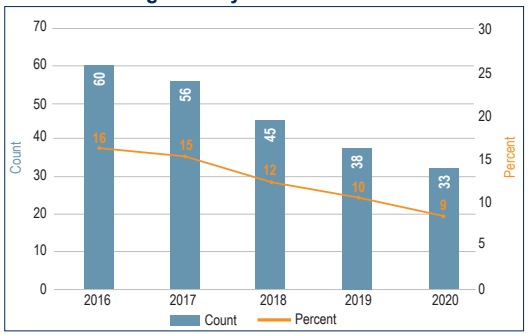
2018 Estimate
102,023

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: .64 Million Square Feet (Msf)

PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	22.5
Retail Trade	22.5
Transportation and Warehousing	3.3
Construction	5.6
Wholesale Trade	1.2
Health Care and Social Assistance	14.0
Accommodation and Food Services	11.8
Mining, Quarrying, Oil and Gas Extraction	0.3

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Warehouse & distribution center	376,593.8	Broken stone or riprap	3,442,027.3
Grain	355,291.3	Canned fruits, vegetables, etc.	382,559.3
Soybean oil or by-products	254,154.3	Concrete products	325,761.0
Misc. field crops	187,689.5	Misc. field crops	281,147.1
Gravel or sand	98,099.0	Grain	222,308.4
Petroleum refining products	96,870.5	Primary forest materials	219,052.6
Rail intermodal drayage from ramp	91,092.4	Ceramic floor or wall tile	171,824.9
Broken stone or riprap	84,070.0	Flour or other grain mill products	162,533.1
Live poultry	73,854.9	Nonmetal minerals, processed	151,612.2
Ready-mix concrete, wet	64,574.9	Warehouse & distribution center	138,548.6

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

PennDOT Virtual Statewide Freight Forum • November 5, 2020

Blair MPO

Blair County Planning Commission-Altoona MSA

METRICS

Linear Miles of Roadway
1,224.65

Daily Vehicle Miles of Travel (DVMT)
2.81 Million

Truck DVMT
222,355

National Highway System (NHS) Mileage
103.7

PennDOT Pub. 600

ROADS

Interstates
99

US Routes
22, 220

Select PA Routes
36, 764

RAILROAD

Passenger, Commuter, Tourist
Amtrak

Class I
Norfolk Southern

Class II
None

Short Line
Nittany & Bald Eagle
Everett

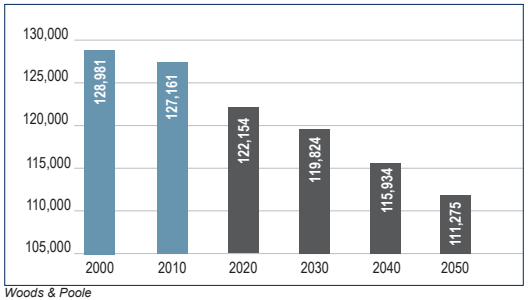
COMMERCIAL RUNWAY

Altoona – Blair County

POPULATION

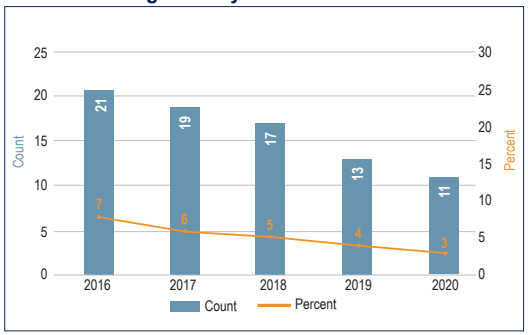
2018 Estimate
123,842

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 1.611 Million Square Feet (Msf)

PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	12.9
Retail Trade	13.7
Transportation and Warehousing	5.9
Construction	4.5
Wholesale Trade	3.8
Health Care and Social Assistance	22.2
Accommodation and Food Services	8.2
Mining, Quarrying, Oil and Gas Extraction	0.3

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Warehouse & distribution center	694,289.9	Warehouse & distribution center	1,342,613.0
Petroleum refining products	672,010.4	Asphalt paving blocks or mix	1,088,727.9
Broken stone or riprap	397,625.7	Concrete products	282,820.4
Misc. industrial organic chemicals	245,451.5	Grain	252,291.4
Gravel or sand	160,177.0	Dairy products	163,317.2
Primary forest materials	141,553.1	Paper	122,346.7
Ready-mix concrete, wet	132,669.5	Paper waste or scrap	89,528.2
Concrete products	126,265.4	Prepared or canned feed	83,591.0
Paper	81,780.4	Envelopes	76,221.9
Liquefied gases, coal or petroleum	77,470.2	Misc. field crops	75,004.7

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

PennDOT Virtual Statewide Freight Forum • November 5, 2020

Cambria County MPO

Cambria County MPO

METRICS

Linear Miles of Roadway
1,775.29

Daily Vehicle Miles of Travel (DVMT)
2.74 Million

Truck DVMT
192,118

National Highway System (NHS) Mileage
113.1

PennDOT Pub. 600

ROADS

Interstates
None

US Routes
22, 219, 422

Select PA Routes
56, 271, 403

RAILROAD

Passenger, Commuter, Tourist
Amtrak
Cambria County Transit Authority

Class I
CSX Transportation
Norfolk Southern

Class II
None

Short Line
R. J. Corman / Allentown

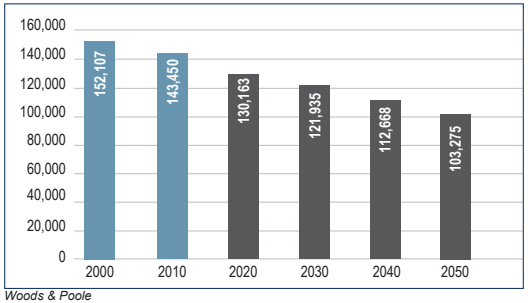
COMMERCIAL RUNWAY

John Murtha Johnstown-Cambria County Airport

POPULATION

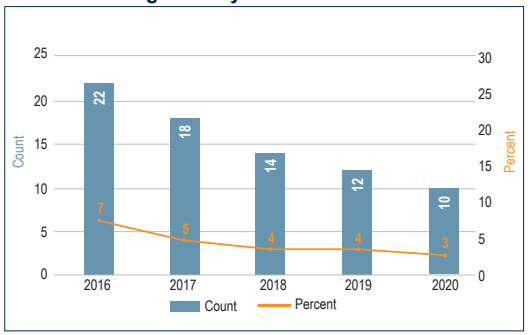
2018 Estimate
134,550

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 1.403 Million Square Feet (Msf)
PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	7.6
Retail Trade	12.7
Transportation and Warehousing	4.3
Construction	3.4
Wholesale Trade	3.0
Health Care and Social Assistance	25.1
Accommodation and Food Services	7.8
Mining, Quarrying, Oil and Gas Extraction	0.3

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Petroleum refining products	733,202.9	Bituminous coal	3,927,625.6
Broken stone or riprap	586,899.6	Processed milk	672,678.6
Dairy products	576,723.2	Gravel or sand	568,365.1
Warehouse & distribution center	564,231.7	Warehouse & distribution center	499,873.5
Primary iron or steel products	179,077.7	Ready-mix concrete, wet	240,614.8
Gravel or sand	148,427.8	Railroad cars	192,759.4
Ready-mix concrete, wet	137,640.0	Broken stone or riprap	190,427.7
Asphalt paving blocks or mix	86,637.2	Concrete products	165,711.7
Concrete products	86,533.8	Locomotives or parts	102,952.3
Liquefied gases, coal or petroleum	83,046.4	Asphalt paving blocks or mix	98,840.8

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

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Centre MPO

Centre Region Planning Agency

METRICS

Linear Miles of Roadway
1,542.33

Daily Vehicle Miles of Travel (DVMT)
4.06 Million

Truck DVMT
550,956

National Highway System (NHS) Mileage
161.6

PennDOT Pub. 600

ROADS

Interstates
80, 99

US Route
322

Select PA Routes
26, 53, 144, 150, 504

RAILROAD

Passenger, Commuter, Tourist
Bellefonte Historical

Class I
Norfolk Southern

Class II
None

Short Line
R. J. Corman / Allentown
Nittany and Bald Eagle

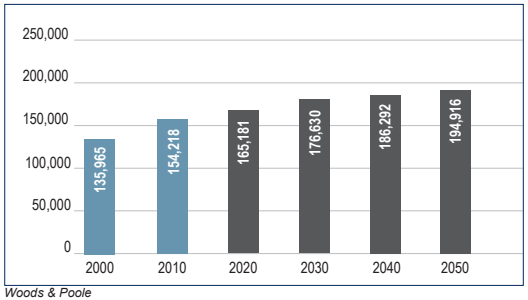
COMMERCIAL RUNWAY

University Park

POPULATION

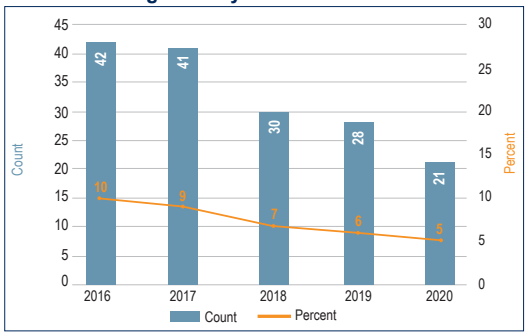
2018 Estimate
161,443

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 2.228 Million Square Feet (Msf)
PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	5.9
Retail Trade	10.2
Transportation and Warehousing	2.2
Construction	4.7
Wholesale Trade	1.1
Health Care and Social Assistance	13
Accommodation and Food Services	9.8
Mining, Quarrying, Oil and Gas Extraction	0.3

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Broken stone or riprap	3,953,603.4	Broken stone or riprap	2,551,150.5
Warehouse & distribution center	583,566.0	Warehouse & distribution center	521,118.6
Gravel or sand	491,316.5	Lime or lime plaster	278,550.5
Petroleum refining products	470,443.2	Grain	245,331.3
Ready-mix concrete, wet	194,955.9	Asphalt paving blocks or mix	187,227.9
Asphalt paving blocks or mix	109,848.7	Soft drinks or mineral water	185,297.7
Concrete products	100,286.2	Ready-mix concrete, wet	169,418.8
Clay ceramic or refrac minerals	98,355.2	Misc. field crops	162,801.5
Plastic matter or synthetic fibers	76,924.2	Dairy products	113,548.8
Misc. industrial organic chemicals	76,506.0	Primary forest materials	55,412.6

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

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DVRPC MPO

Delaware Valley Regional Planning Commission

METRICS

Linear Miles of Roadway
15,430.65

Daily Vehicle Miles of Travel (DVMT)
68 Million

Truck DVMT
32,150,10

National Highway System (NHS) Mileage
1344.8

PennDOT Pub. 600

ROADS

Interstates
76, 95, 276, 295, 476, 676

US Routes
1, 13, 30, 202, 322, 422

Select, Major PA Routes
3, 73, 100, 309, 611

RAILROAD

Passenger, Commuter, Tourist
Amtrak, Southeastern Pennsylvania Transportation Authority, West Chester

Class I
None

Class II
CSX Transportation, Norfolk Southern

Short Line
Conrail Shared Assets, East Penn
New Hope and Ivyland
Pennsylvania Northeastern

COMMERCIAL RUNWAY

Philadelphia International Airport

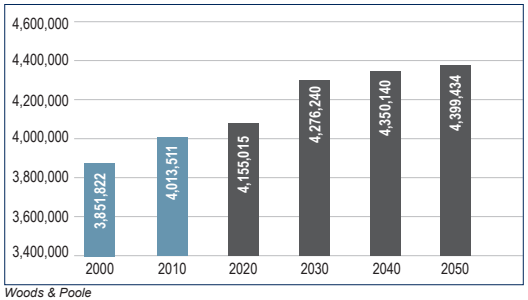
WATER PORT

PhilaPort (The Port of Philadelphia)

POPULATION

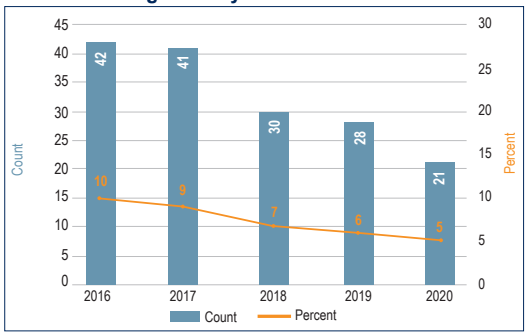
2018 Estimate
4,103,876

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 26.277 Million Square Feet (Msf)

PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	5.7
Retail Trade	10.6
Transportation and Warehousing	6.4
Construction	5.5
Wholesale Trade	3.1
Health Care and Social Assistance	17.6
Accommodation and Food Services	7.3
Mining, Quarrying, Oil and Gas Extraction	0.0

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Warehouse & distribution center	21,509,301.8	Petroleum refining products	43,359,379.5
Broken stone or riprap	15,902,246.9	Broken stone or riprap	20,422,422.9
Crude petroleum	14,754,358.1	Warehouse & distribution center	14,896,547.6
Petroleum refining products	9,379,361.4	Rail intermodal drayage from ramp	4,176,285.1
Misc. field crops	4,704,628.4	Primary iron or steel products	3,155,168.6
Gravel or sand	4,230,176.9	Soft drinks or mineral water	2,664,791.9
Misc. industrial organic chemicals	3,884,348.5	Concrete products	2,601,489.7
Rail intermodal drayage from ramp	3,092,456.8	Liquefied gases, coal or petroleum	2,449,638.5
Metal scrap or tailings	2,553,871.0	Processed milk	2,141,825.8
Concrete products	2,400,289.6	Misc. industrial organic chemicals	1,959,482.7

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

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Erie MPO

Erie Area Transportation Study

METRICS

Linear Miles of Roadway
2,603.8

Daily Vehicle Miles of Travel (DVMT)
5.98 Million

Truck DVMT
499,049

National Highway System (NHS) Mileage
191

PennDOT Pub. 600

ROADS

Interstates
79, 86, 90

US Routes
6, 19, 20

Select, Major PA Routes
5, 8, 98, 290, 430

RAILROAD

Passenger, Commuter, Tourist
Amtrak

Class I
Canadian National/Bessemer and Lake Erie, CSX Transportation
Norfolk Southern

Class II
Buffalo and Pittsburgh

Short Line
Genesee and Wyoming
Western New York and Pennsylvania

COMMERCIAL RUNWAY

Erie International Tom Ridge Field

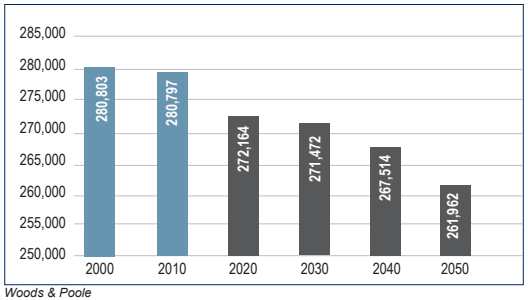
WATER PORT

Erie-Western PA Port Authority

POPULATION

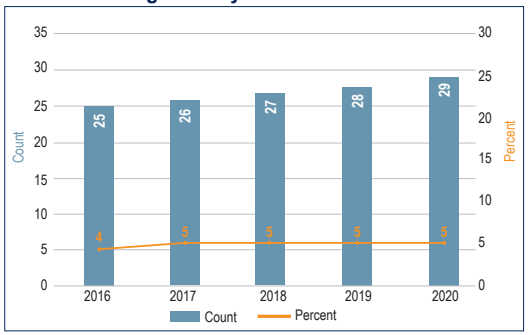
2018 Estimate
275,972

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 2.173 Million Square Feet (Msf)

PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	15.8
Retail Trade	11.5
Transportation and Warehousing	2.4
Construction	3.3
Wholesale Trade	2.8
Health Care and Social Assistance	20.2
Accommodation and Food Services	9.5
Mining, Quarrying, Oil and Gas Extraction	0.0

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Petroleum refining products	1,359,109.9	Railroad cars	1,877,162.1
Warehouse & distribution center	1,250,531.3	Locomotives or parts	1,134,643.7
Broken stone or riprap	655,026.1	Warehouse & distribution center	775,868.8
Gravel or sand	615,834.9	Gravel or sand	522,101.4
Dairy products	419,008.4	Processed milk	459,072.5
Plastic matter or synthetic fibers	320,869.2	Broken stone or riprap	391,336.1
Railroad cars	311,820.0	Soft drinks or mineral water	379,430.6
Concrete products	213,120.2	Misc. plastic products	285,581.5
Primary iron or steel products	171,884.8	Grain	260,713.3
Grain	164,436.1	Concrete products	220,895.2

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

PennDOT Virtual Statewide Freight Forum • November 5, 2020

Franklin MPO

Franklin County Metropolitan Planning Organization

METRICS

Linear Miles of Roadway
1,708.52

Daily Vehicle Miles of Travel (DVMT)
4.03 Million

Truck DVMT
425,442

National Highway System (NHS) Mileage
88.9

PennDOT Pub. 600

ROADS

Interstates
76, 81

US Routes
11, 30

Select PA Routes
163, 316

RAILROAD

Passenger, Commuter, Tourist
None

Class I
CSX Transportation
Norfolk Southern

Class I
None

Short Line
Pennsylvania and Southern

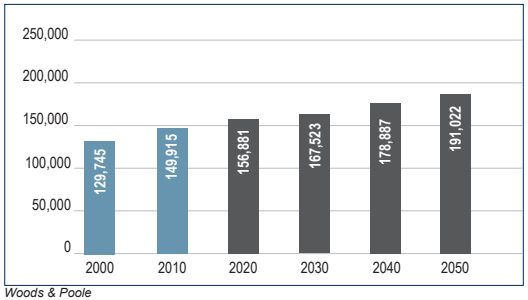
COMMERCIAL RUNWAY

None

POPULATION

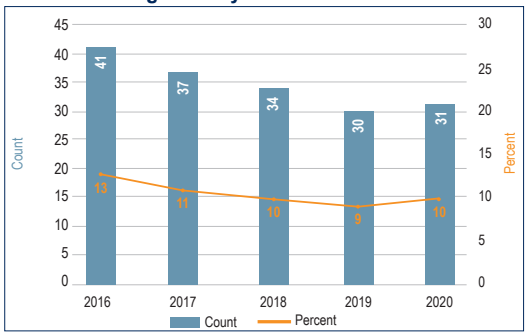
2018 Estimate
153,751

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: .731 Million Square Feet (Msf)

PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	16.2
Retail Trade	11.7
Transportation and Warehousing	11.3
Construction	4.1
Wholesale Trade	2.7
Health Care and Social Assistance	16.7
Accommodation and Food Services	7.9
Mining, Quarrying, Oil and Gas Extraction	0.5

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Warehouse & distribution center	573,378.3	Broken stone or riprap	8,487,428.1
Broken stone or riprap	573,034.0	Grain	732,439.4
Freight-all-kinds shipments	546,249.7	Warehouse & distribution center	703,399.5
Bituminous coal	479,837.3	Asphalt paving blocks or mix	625,432.4
Petroleum refining products	434,513.8	Dairy products	500,626.5
Gravel or sand	320,298.9	Bituminous coal	428,268.7
Rail intermodal drayage from ramp	266,833.9	Concrete products	426,770.3
Paper	263,398.1	Misc. field crops	353,672.3
Grain	154,969.7	Asphalt coatings	292,891.5
Ready-mix concrete, wet	109,291.0	Prepared or canned feed	240,379.2

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

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HATS MPO

Harrisburg Area Transportation Study

METRICS

Linear Miles of Roadway
4,936.52

Daily Vehicle Miles of Travel (DVMT)
17.11 Million

Truck DVMT
1,753,021

National Highway System (NHS) Mileage
323.9

PennDOT Pub. 600

ROADS

Interstates
76, 81, 83, 283

US Routes
11, 15, 22, 322, 422

Select PA Routes
34, 114, 174, 230, 283, 581, 641

RAILROAD

Passenger, Commuter, Tourist
Amtrak, Gettysburg Scenic

Class I
CSX Transportation
Norfolk Southern

Class II
None

Short Line
Gettysburg and Northern
Middletown and Hummelstown
Mittal Steel USA, Pioneer Railcorp.

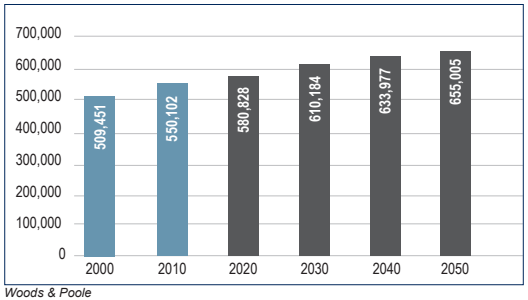
COMMERCIAL RUNWAY

Harrisburg International

POPULATION

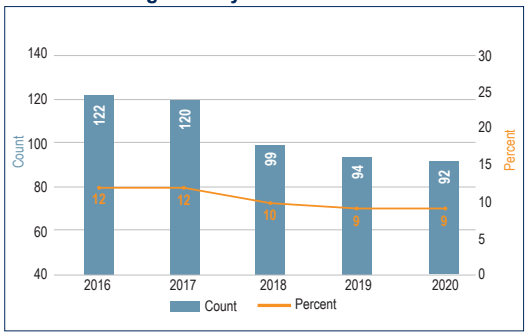
2018 Estimate
567,872

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 6.734 Million Square Feet (Msf)

PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	6.2
Retail Trade	11.2
Transportation and Warehousing	10.7
Construction	4.9
Wholesale Trade	2.8
Health Care and Social Assistance	14.1
Accommodation and Food Services	7.2
Mining, Quarrying, Oil and Gas Extraction	0.1

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Rail intermodal drayage from ramp	3,691,936.4	Broken stone or riprap	8,624,400.2
Rail intermodal drayage to ramp	3,330,344.6	Rail intermodal drayage from ramp	5,600,688.6
Warehouse & distribution center	2,671,818.0	Warehouse & distribution center	3,297,228.8
Petroleum refining products	2,628,042.1	Semi-trailers returned empty	1,350,836.5
Broken stone or riprap	2,014,618.0	Rail intermodal drayage to ramp	1,259,053.8
Freight-all-kinds shipments	1,822,533.6	Freight-all-kinds shipments	1,086,873.1
Processed milk	836,852.0	Grain	949,780.5
Gravel or sand	752,324.3	Primary iron or steel products	907,519.0
Misc. industrial organic chemicals	556,094.9	Gravel or sand	852,100.9
Grain	549,495.1	Flat glass	644,887.6

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

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Lancaster MPO

Lancaster County Transportation Coordinating Committee

METRICS

Linear Miles of Roadway
3,912.94

Daily Vehicle Miles of Travel (DVMT)
12.38 Million

Truck DVMT
829,019

National Highway System (NHS) Mileage
182.5

PennDOT Pub. 600

ROADS

Interstates
76

US Routes
30, 222, 322

Select PA Routes
23, 41, 72, 272, 283, 462

RAILROAD

Passenger, Commuter, Tourist
Amtrak
Strasburg

Class I
Norfolk Southern

Class II
None

Short Line
East Penn

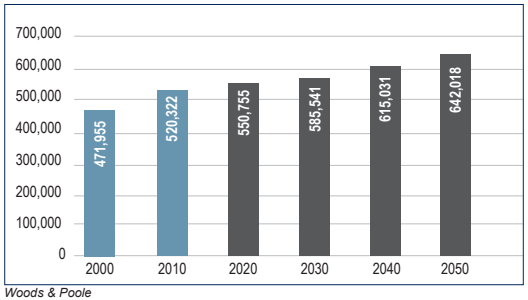
COMMERCIAL RUNWAY

Lancaster

POPULATION

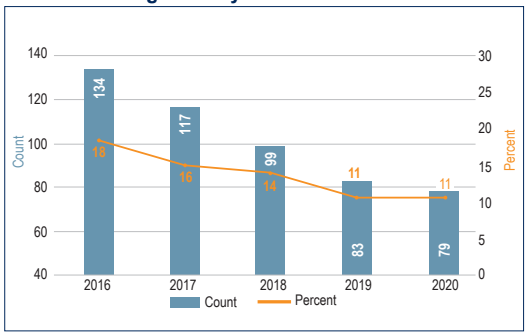
2018 Estimate
538,347

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 3.572 Million Square Feet (Msf)

PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	15.8
Retail Trade	12.2
Transportation and Warehousing	5.2
Construction	7.0
Wholesale Trade	5.8
Health Care and Social Assistance	16.1
Accommodation and Food Services	8.0
Mining, Quarrying, Oil and Gas Extraction	0.2

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Broken stone or riprap	10,094,580.9	Broken stone or riprap	4,905,478.7
Warehouse & distribution center	2,381,387.8	Concrete products	1,904,748.8
Grain	1,297,290.7	Warehouse & distribution center	1,791,865.0
Processed milk	1,200,665.2	Grain	1,679,233.7
Petroleum refining products	939,749.5	Dairy products	1,173,498.8
Misc. field crops	602,519.4	Prepared or canned feed	1,010,392.7
Concrete products	435,709.5	Mineral wool	833,956.6
Ready-mix concrete, wet	431,817.2	Misc. food preparations, n.e.c.	498,863.9
Paper	419,825.4	Cereal preparations	493,100.9
Gravel or sand	409,369.0	Misc. field crops	406,040.4

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

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Lebanon MPO

Lebanon County Planning Department

METRICS

Linear Miles of Roadway
1,237.88

Daily Vehicle Miles of Travel (DVMT)
3.37 Million

Truck DVMT
407,887

National Highway System (NHS) Mileage
88.3

PennDOT Pub. 600

ROADS

Interstates
76, 78, 81

US Routes
322, 422

Select PA Route
72

RAILROAD

Passenger, Commuter, Tourist
None

Class I
Norfolk Southern

Class II
None

Short Line
None

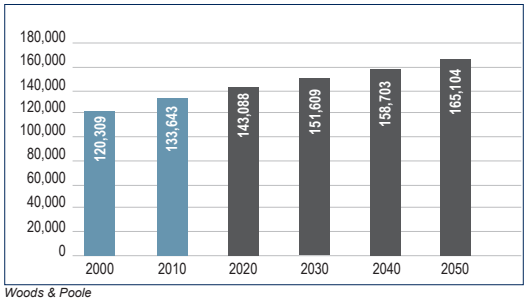
COMMERCIAL RUNWAY

None

POPULATION

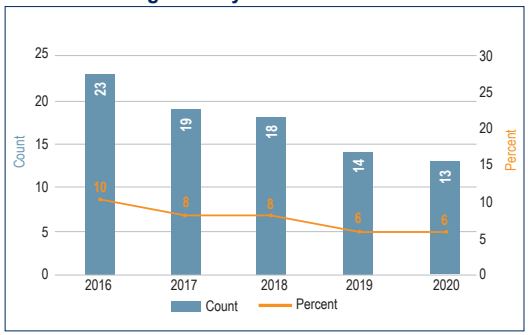
2018 Estimate
138,674

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: .742 Million Square Feet (Msf)

PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	18.5
Retail Trade	14.0
Transportation and Warehousing	7.5
Construction	3.9
Wholesale Trade	3.4
Health Care and Social Assistance	14.6
Accommodation and Food Services	7.3
Mining, Quarrying, Oil and Gas Extraction	0.0

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Broken stone or riprap	1,315,546.9	Broken stone or riprap	1,688,206.9
Warehouse & distribution center	601,790.5	Warehouse & distribution center	989,131.7
Petroleum refining products	559,274.5	Asphalt coatings	551,481.9
Dairy products	317,576.2	Grain	516,584.2
Primary forest materials	289,197.4	Dairy products	302,585.7
Live poultry	251,455.7	Processed milk	295,124.5
Grain	242,182.1	Concrete products	228,512.3
Gravel or sand	123,684.0	Prepared or canned feed	226,261.9
Rail intermodal drayage from ramp	113,602.9	Gravel or sand	139,063.7
Crude chemical or fertilizer minerals	101,266.8	Misc. sawmill or planing mill	126,312.7

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

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Lehigh Valley MPO

Lehigh Valley MPO

METRICS

Linear Miles of Roadway
4,172.81

Daily Vehicle Miles of Travel (DVMT)
14.83 Million

Truck DVMT
1,044,681

National Highway System (NHS) Mileage
286.1

PennDOT Pub. 600

ROADS

Interstates
78, 476

US Routes
22, 222

Select, Major PA Routes
33, 145, 248, 309, 378

RAILROAD

Passenger, Commuter, Tourist
None

Class I
Norfolk Southern

Class II
None

Short Line
East Penn

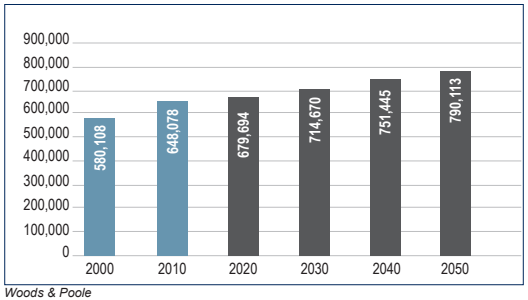
COMMERCIAL RUNWAY

Lehigh Valley

POPULATION

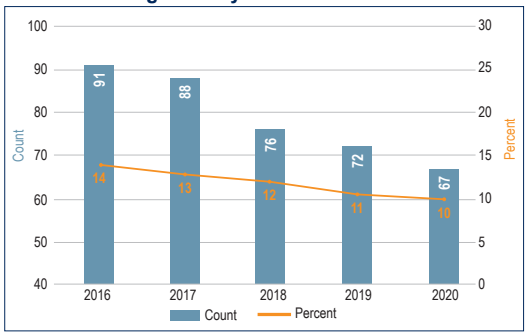
2018 Estimate
664,391

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 1.992 Million Square Feet (Msf)

PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	10.5
Retail Trade	10.9
Transportation and Warehousing	8.5
Construction	3.6
Wholesale Trade	4.2
Health Care and Social Assistance	17.0
Accommodation and Food Services	8.8
Mining, Quarrying, Oil and Gas Extraction	0.1

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Broken stone or riprap	7,758,854.0	Warehouse & distribution center	6,024,423.5
Warehouse & distribution center	3,009,893.9	Portland cement	2,478,408.8
Petroleum refining products	2,408,848.5	Rail intermodal drayage from ramp	1,890,654.9
Processed milk	1,479,637.4	Soft drinks or mineral water	1,788,609.9
Rail intermodal drayage from ramp	917,425.1	Broken stone or riprap	1,613,596.5
Bituminous coal	801,681.5	Asphalt paving blocks or mix	844,574.6
Gravel or sand	782,844.3	Rail intermodal drayage to ramp	756,130.0
Grain	726,204.1	Concrete products	610,117.4
Misc. industrial organic chemicals	606,525.0	Dog, cat or other pet food, n.e.c.	534,873.2
Rail intermodal drayage to ramp	566,615.2	Ready-mix concrete, wet	436,106.7

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

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NEPA MPO

Northeastern Pennsylvania Alliance

METRICS

Linear Miles of Roadway
4,876.51

Daily Vehicle Miles of Travel (DVMT)
11.88 Million

Truck DVMT
1,350,039

National Highway System (NHS) Mileage
270

PennDOT Pub. 600

ROADS

Interstates
80, 81, 84, 380, 476

US Routes
6, 206, 209

Select PA Routes
33, 54, 61, 248, 309

RAILROAD

Passenger, Commuter, Tourist
Lehigh Gorge, Stourbridge

Class I
Norfolk Southern

Class II
Reading, Blue Mountain & Northern

Short Line
Central New York, Chestnut Ridge
Delaware-Lackawanna, Delaware
Lackawaxen, Stourbridge

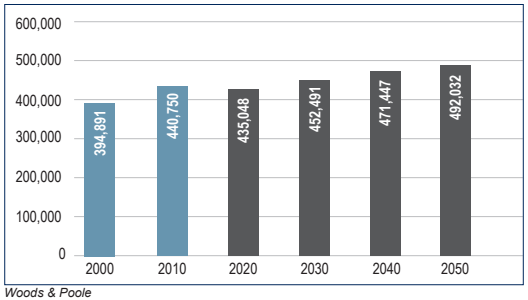
COMMERCIAL RUNWAY

None

POPULATION

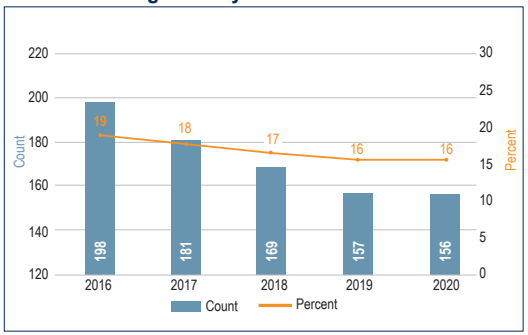
2018 Estimate
430,570

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 3.245 Million Square Feet (Msf)

PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	22.4
Retail Trade	10.7
Transportation and Warehousing	11.6
Construction	3.0
Wholesale Trade	2.2
Health Care and Social Assistance	15.7
Accommodation and Food Services	5.9
Mining, Quarrying, Oil and Gas Extraction	1.1

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Warehouse & distribution center	1,761,323.1	Broken stone or riprap	2,229,769.7
Petroleum refining products	803,486.7	Warehouse & distribution center	1,612,413.8
Broken stone or riprap	802,701.5	Concrete products	1,267,495.5
Gravel or sand	705,007.9	Anthracite	899,021.9
Misc. field crops	642,616.1	Asphalt paving blocks or mix	876,632.2
Dairy products	403,439.1	Gravel or sand	643,323.6
Grain	400,012.1	Processed milk	410,881.0
Plastic matter or synthetic fibers	362,408.9	Lumber or dimension stock	300,941.1
Ready-mix concrete, wet	278,921.3	Drugs	219,531.8
Potassium or sodium compound	239,121.6	Ready-mix concrete, wet	204,507.5

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

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North Central RPO

North Central PA Regional Planning & Development Commission

METRICS

Linear Miles of Roadway
6,531.76

Daily Vehicle Miles of Travel (DVMT)
6.33 Million

Truck DVMT
1,036,056

National Highway System (NHS) Mileage
338.3

PennDOT Pub. 600

ROADS

Interstates
80

US Routes
6, 119, 219, 322

Select PA Routes
28, 36, 120, 879, 970

RAILROAD

Passenger, Commuter, Tourist
None

Class I
CSX Transportation
Norfolk Southern

Class II
Buffalo and Pittsburgh

Short Line
R. J. Corman / Allentown
Western New York and Pennsylvania

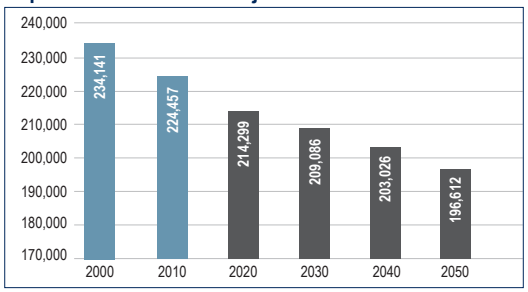
COMMERCIAL RUNWAY

DuBois Regional
Bradford Regional

POPULATION

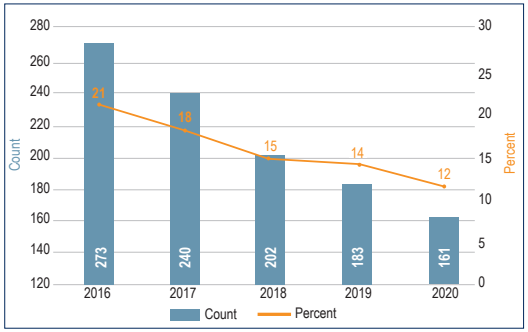
2018 Estimate
218,337

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 3.346 Million Square Feet (Msf)

PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	27.0
Retail Trade	9.9
Transportation and Warehousing	5.2
Construction	3.5
Wholesale Trade	2.6
Health Care and Social Assistance	17.1
Accommodation and Food Services	6.1
Mining, Quarrying, Oil and Gas Extraction	1.6

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Gravel or sand	2,200,406.3	Petroleum refining products	6,503,503.7
Primary forest materials	1,536,545.4	Bituminous coal	3,549,148.4
Warehouse & distribution center	1,202,949.9	Warehouse & distribution center	1,347,599.8
Broken stone or riprap	761,075.6	Primary forest materials	1,325,592.3
Bituminous coal	728,887.8	Broken stone or riprap	1,282,472.1
Petroleum refining products	371,276.4	Distilled or blended liquors	476,254.1
Processed milk	345,721.1	Gravel or sand	416,629.8
Grain	308,523.5	Liquefied gases, coal or petroleum	407,454.9
Misc. industrial organic chemicals	267,283.3	Misc. industrial organic chemicals	373,329.6
Primary iron or steel products	251,367.8	Misc. sawmill or planing mill	342,130.5

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

PennDOT Virtual Statewide Freight Forum • November 5, 2020

Northern Tier RPO

Northern Tier Regional Planning & Development Commission

METRICS

Linear Miles of Roadway
7,469.51

Daily Vehicle Miles of Travel (DVMT)
5.36 Million

Truck DVMT
1,025,419

National Highway System (NHS) Mileage
201.6

PennDOT Pub. 600

ROADS

Interstates
81

US Routes
6, 11, 220

RAILROAD

Passenger, Commuter, Tourist
Tioga Central

Class I
Norfolk Southern

Class II
Reading, Blue Mountain & Northern

Short Line
Central New York
Ithaca Central
Lehigh Railway
Wellsboro and Corning

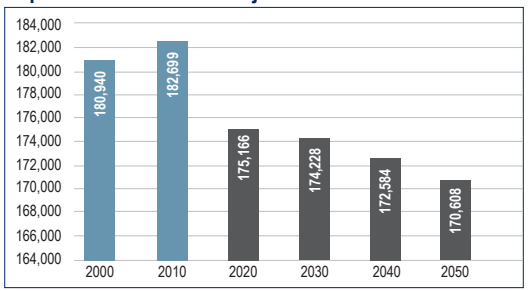
COMMERCIAL RUNWAY

None

POPULATION

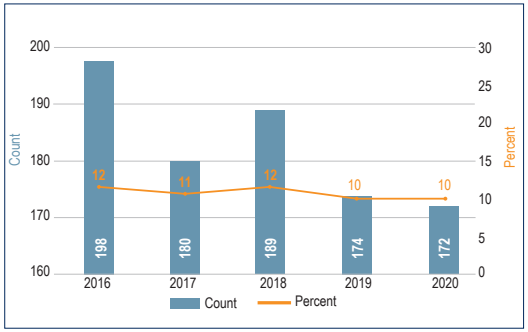
2018 Estimate
177,635

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 4.292 Million Square Feet (Msf)

PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	14.2
Retail Trade	11.3
Transportation and Warehousing	4.7
Construction	6.0
Wholesale Trade	48.1
Health Care and Social Assistance	17.8
Accommodation and Food Services	7.2
Mining, Quarrying, Oil and Gas Extraction	3.5

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Gravel or sand	1,465,935.6	Broken stone or riprap	6,322,592.2
Primary forest materials	929,599.7	Gravel or sand	980,915.0
Warehouse & distribution center	581,403.7	Misc. field crops	876,974.2
Pulp or pulp mill products	423,821.0	Paper	714,408.3
Broken stone or riprap	417,302.6	Grain	600,198.9
Grain	249,013.4	Dairy products	526,627.6
Processed milk	120,988.7	Dimension stone, quarry	494,414.9
Petroleum refining products	119,567.9	Misc. waste or scrap	471,487.0
Livestock	109,934.2	Primary forest materials	452,561.2
Misc. nonmetallic minerals, n.e.c.	92,315.9	Cut stone or stone products	405,082.8

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

PennDOT Virtual Statewide Freight Forum • November 5, 2020

Northwest RPO

Northwest PA Regional Planning & Development Commission

METRICS

Linear Miles of Roadway
7,049.16

Daily Vehicle Miles of Travel (DVMT)
6.38 Million

Truck DVMT
809,717

National Highway System (NHS) Mileage
313.1

PennDOT Pub. 600

ROADS

Interstates
79, 80

US Routes
6, 62, 322

Select PA Routes
8, 28, 66, 68

RAILROAD

Passenger, Commuter, Tourist
Oil Creek and Titusville

Class I
Canadian National/Bessemer and Lake Erie, Norfolk Southern

Class II
Buffalo and Pittsburgh

Short Line
Oil Creek and Titusville Lines
Western New York and Pennsylvania

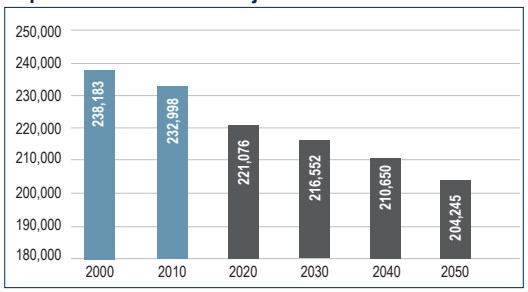
COMMERCIAL RUNWAY

Venango Regional

POPULATION

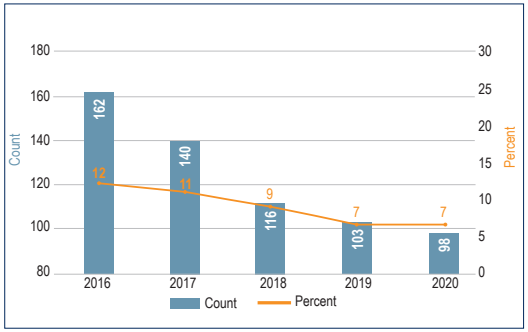
2018 Estimate
224,753

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 4.054 Million Square Feet (Msf)

PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	17.2
Retail Trade	10.3
Transportation and Warehousing	3.9
Construction	3.6
Wholesale Trade	1.9
Health Care and Social Assistance	21.8
Accommodation and Food Services	7.5
Mining, Quarrying, Oil and Gas Extraction	1.0

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Warehouse & distribution center	1,596,473.2	Petroleum refining products	11,418,771.6
Petroleum refining products	982,559.1	Broken stone or riprap	2,578,364.9
Broken stone or riprap	960,031.0	Gravel or sand	1,600,602.1
Primary forest materials	933,591.5	Warehouse & distribution center	1,503,694.3
Gravel or sand	809,451.7	Liquefied gases, coal or petroleum	778,046.8
Misc. industrial organic chemicals	509,277.2	Flat glass	618,170.3
Crude prod of coal, gas, petroleum	447,124.8	Grain	528,022.3
Grain	282,418.0	Primary forest materials	512,272.4
Plastic matter or synthetic fibers	244,337.4	Dog, cat or other pet food, n.e.c.	437,668.2
Primary iron or steel products	234,384.6	Misc. sawmill or planing mill	389,556.2

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

PennDOT Virtual Statewide Freight Forum • November 5, 2020

Reading MPO

Reading Area Transportation Study

METRICS

Linear Miles of Roadway
3,330.69

Daily Vehicle Miles of Travel (DVMT)
9.55 Million

Truck DVMT
933,955

National Highway System (NHS) Mileage
185.2

PennDOT Pub. 600

ROADS

Interstates
76, 78, 176

US Routes
222, 422

Select PA Routes
12, 29, 61, 73, 100, 724

RAILROAD

Passenger, Commuter, Tourist
Wanamaker Kempton & Southern

Class I
Norfolk Southern

Class II
Reading, Blue Mountain & Northern

Short Line
Allentown and Auburn
Eastern Berks Gateway
East Penn

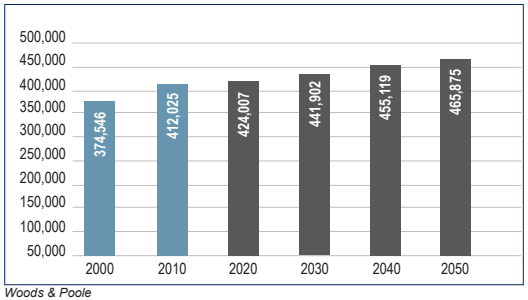
COMMERCIAL RUNWAY

None

POPULATION

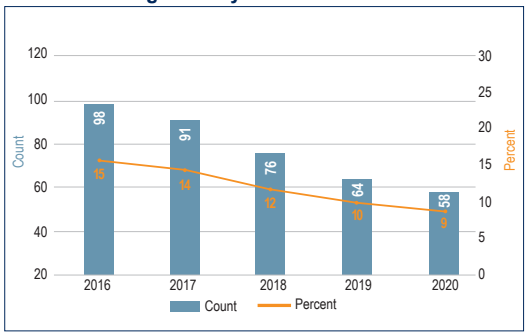
2018 Estimate
416,642

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 2.94 Million Square Feet (Msf)

PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	18.4
Retail Trade	11.0
Transportation and Warehousing	3.8
Construction	4.2
Wholesale Trade	3.9
Health Care and Social Assistance	16.6
Accommodation and Food Services	7.1
Mining, Quarrying, Oil and Gas Extraction	0.1

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Broken stone or riprap	1,942,332.9	Broken stone or riprap	6,051,918.6
Warehouse & distribution center	1,671,566.3	Primary iron or steel products	1,453,324.7
Petroleum refining products	933,064.1	Warehouse & distribution center	1,362,117.9
Dairy products	422,581.9	Storage batteries or plates	738,855.5
Bituminous coal	388,752.4	Gravel or sand	613,568.4
Primary iron or steel products	340,090.1	Grain	599,677.8
Misc. industrial organic chemicals	331,800.0	Portland cement	570,247.2
Grain	321,760.0	Processed milk	437,835.9
Gravel or sand	314,022.5	Concrete products	404,530.8
Concrete products	247,215.1	Primary metal products, n.e.c.	335,002.8

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

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Scranton/Wilkes-Barre MPO

Lackawanna Luzerne Transportation Study

METRICS

Linear Miles of Roadway
4,267.54

Daily Vehicle Miles of Travel (DVMT)
12.97 Million

Truck DVMT
1,322,852

National Highway System (NHS) Mileage
321.5

PennDOT Pub. 600

ROADS

Interstates
80, 81, 84, 380, 476

US Routes
6, 11

Select, Major PA Routes
29, 93, 115, 309, 924

RAILROAD

Passenger, Commuter, Tourist
Amtrak

Class I
Norfolk Southern

Class II
Reading, Blue Mountain & Northern

Short Line
Delaware-Lackawanna
Luzerne and Susquehanna
North Shore

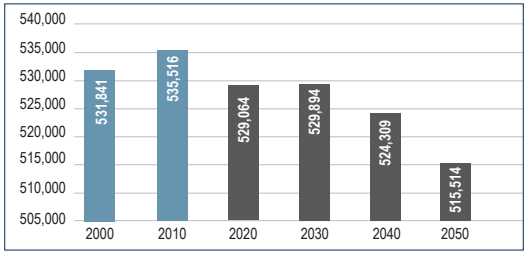
COMMERCIAL RUNWAY

Wilkes-Barre/Scranton International

POPULATION

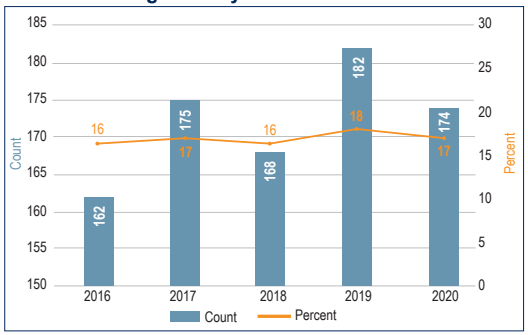
2018 Estimate
529,338

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 5.079 Million Square Feet (Msf)

PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	10.6
Retail Trade	11.7
Transportation and Warehousing	7.3
Construction	3.7
Wholesale Trade	4.2
Health Care and Social Assistance	19.3
Accommodation and Food Services	8.2
Mining, Quarrying, Oil and Gas Extraction	0.2

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Warehouse & distribution center	2,454,092.8	Broken stone or riprap	5,561,142.5
Broken stone or riprap	1,907,663.0	Warehouse & distribution center	2,864,255.8
Grain	1,374,236.8	Gravel or sand	2,015,550.8
Petroleum refining products	1,171,422.3	Asphalt paving blocks or mix	659,166.0
Gravel or sand	1,101,750.4	Flour or other grain mill products	517,701.5
Plastic matter or synthetic fibers	576,541.9	Misc. nonmetallic minerals, n.e.c.	421,040.0
Concrete products	380,321.6	Ready-mix concrete, wet	395,541.1
Ready-mix concrete, wet	351,672.9	Concrete products	390,151.1
Asphalt paving blocks or mix	295,979.5	Soft drinks or mineral water	372,980.9
Misc. industrial organic chemicals	283,041.3	Misc. plastic products	324,380.2

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

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SEDA-COG MPO

SEDA - Council of Governments

METRICS

Linear Miles of Roadway
6,730.78

Daily Vehicle Miles of Travel (DVMT)
10.22 Million

Truck DVMT
1,386,314

National Highway System (NHS) Mileage
354.8

PennDOT Pub. 600

ROADS

Interstates
80, 180

US Routes
11, 15, 22, 220, 322, 522

Select, Major PA Routes
45, 54, 61, 147, 642

RAILROAD

Passenger, Commuter, Tourist
Amtrak

Class I
Norfolk Southern

Class II
None

Short Line
Juniata Valley, Lycoming Valley, Nittany and Bald Eagle, North Shore, Shamokin Valley, Union County Industrial, R. J. Corman / Allentown

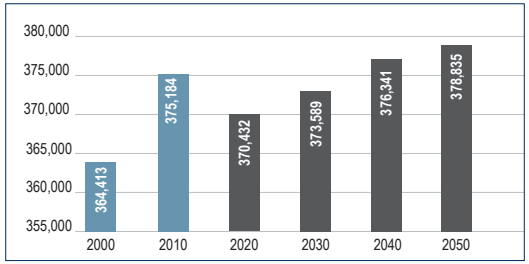
COMMERCIAL RUNWAY

None

POPULATION

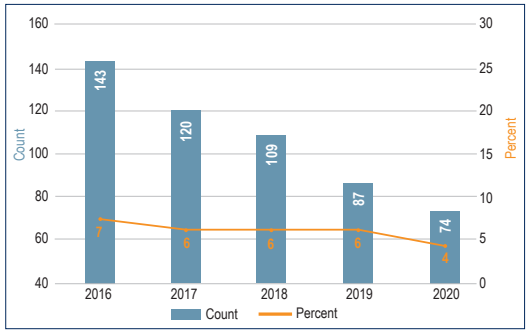
2018 Estimate
372,417

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 6.696 Million Square Feet (Msf)

PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	19.6
Retail Trade	11.3
Transportation and Warehousing	4.1
Construction	4.5
Wholesale Trade	2.5
Health Care and Social Assistance	20.8
Accommodation and Food Services	8.1
Mining, Quarrying, Oil and Gas Extraction	0.6

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Bituminous coal	3,637,080.4	Broken stone or riprap	7,318,791.9
Warehouse & distribution center	1,506,940.3	Grain	1,316,694.6
Broken stone or riprap	940,640.4	Warehouse & distribution center	1,284,249.3
Gravel or sand	891,225.8	Gravel or sand	931,384.7
Grain	852,153.7	Lumber or dimension stock	680,021.3
Primary forest materials	759,751.9	Dog, cat or other pet food, n.e.c.	655,053.9
Petroleum refining products	520,915.2	Misc. field crops	589,398.3
Pulp or pulp mill products	239,600.1	Primary forest materials	585,287.9
Metal scrap or tailings	233,910.8	Dairy products	524,814.1
Plastic matter or synthetic fibers	214,648.4	Ready-mix concrete, wet	504,841.3

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

PennDOT Virtual Statewide Freight Forum • November 5, 2020

Southern Alleghenies RPO

Southern Alleghenies Planning & Development Commission

METRICS

Linear Miles of Roadway
5,996.2

Daily Vehicle Miles of Travel (DVMT)
7.69 Million

Truck DVMT
442,263

National Highway System (NHS) Mileage
355.4

PennDOT Pub. 600

ROADS

Interstates
70, 76, 99

US Routes
22, 30, 40, 219, 220, 522

Select PA Routes
26, 31, 56, 281, 601, 747

RAILROAD

Passenger, Commuter, Tourist
Amtrak

Class I
CSX Transportation
Norfolk Southern

Class II
Wheeling and Lake Erie

Short Line
East Broad Top Foundation
Everett Railroad

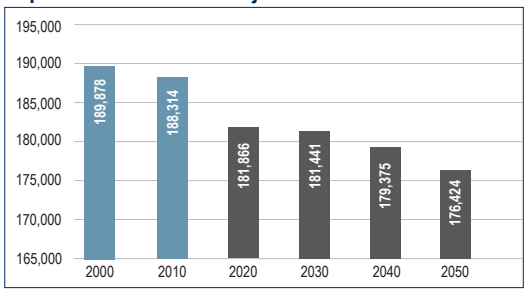
COMMERCIAL RUNWAY

None

POPULATION

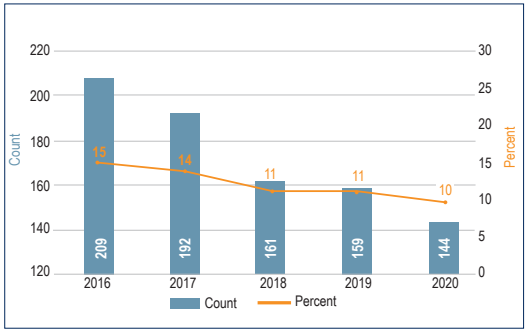
2018 Estimate
183,487

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 40.41 Million Square Feet (Msf)

PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	17.6
Retail Trade	11.4
Transportation and Warehousing	5.6
Construction	6.4
Wholesale Trade	3.8
Health Care and Social Assistance	15.2
Accommodation and Food Services	7.9
Mining, Quarrying, Oil and Gas Extraction	0.1

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Broken stone or riprap	2,925,618.5	Bituminous coal	5,856,663.8
Warehouse & distribution center	792,735.7	Broken stone or riprap	1,676,871.0
Gravel or sand	457,392.4	Asphalt paving blocks or mix	1,402,748.2
Petroleum refining products	288,949.6	Gravel or sand	1,350,780.0
Primary forest materials	276,806.5	Grain	895,404.1
Ready-mix concrete, wet	156,892.7	Misc. field crops	735,641.0
Primary iron or steel products	150,051.7	Dairy products	490,528.6
Metal scrap or tailings	144,392.3	Warehouse & distribution center	459,817.4
Concrete products	114,100.9	Clay ceramic or refrac minerals	413,650.8
Asphalt paving blocks or mix	93,689.6	Primary forest materials	310,193.9

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

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SPC MPO

Southwestern Pennsylvania Commission

DRAFT

METRICS

Linear Miles of Roadway
25,215.44

Daily Vehicle Miles of Travel (DVMT)
57.03 Million

Truck DVMT
3,236,995

National Highway System (NHS) Mileage
1,568.9
PennDOT Pub. 600

ROADS

Interstates
70, 76, 79, 80, 279, 376, 579

Major US Routes
19, 22, 30, 119, 422

Select, Major PA Routes
8, 28, 43, 51, 65

RAILROAD

Passenger, Commuter, Tourist
Amtrak
Port Authority of Allegheny County

Class I
Canadian National/Bessemer and Lake Erie, CSX Transportation
Norfolk Southern

Class II
Buffalo and Pittsburgh
Wheeling and Lake Erie Railway

Short Line
13 shortlines

COMMERCIAL RUNWAY

Pittsburgh International, Arnold Palmer Regional

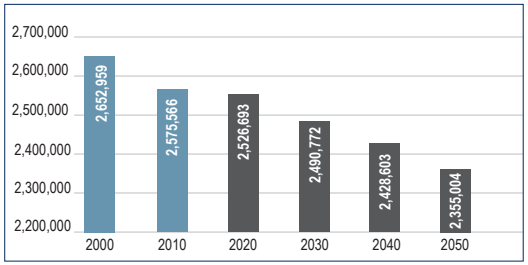
WATER PORT

Port of Pittsburgh

POPULATION

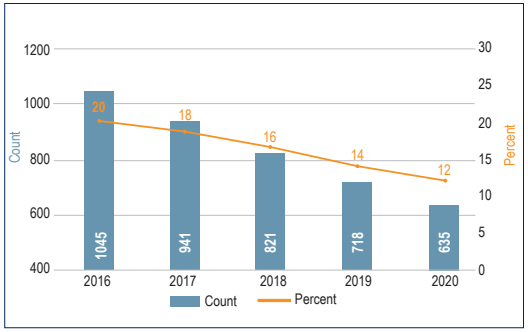
2018 Estimate
2,550,222

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 26.268 Million Square Feet (Msf)
PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	9.5
Retail Trade	12.1
Transportation and Warehousing	4.2
Construction	6.1
Wholesale Trade	3.9
Health Care and Social Assistance	17.0
Accommodation and Food Services	8.3
Mining, Quarrying, Oil and Gas Extraction	4.1

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Bituminous coal	41,819,947.6	Bituminous coal	51,620,182.1
Broken stone or riprap	32,609,862.3	Broken stone or riprap	30,940,479.5
Warehouse & distribution center	12,230,557.0	Petroleum refining products	8,161,414.4
Gravel or sand	8,090,564.2	Primary iron or steel products	6,905,276.9
Petroleum refining products	6,045,620.7	Gravel or sand	6,611,798.5
Iron ores	4,583,458.1	Warehouse & distribution center	6,204,700.6
Primary iron or steel products	2,675,110.8	Paper waste or scrap	1,876,686.2
Ready-mix concrete, wet	2,428,344.4	Ready-mix concrete, wet	1,740,145.7
Misc. industrial organic chemicals	1,946,755.8	Asphalt paving blocks or mix	1,597,061.7
Concrete products	1,702,316.1	Concrete products	1,389,612.0

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

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SVTS MPO

Shenango Valley Transportation Study

METRICS

Linear Miles of Roadway
1,261.83

Daily Vehicle Miles of Travel (DVMT)
3.27 Million

Truck DVMT
485,200

National Highway System (NHS) Mileage
98.9

PennDOT Pub. 600

ROADS

Interstates
79, 80, 376

US Routes
19, 62, 322

Select PA Routes
18, 58, 518, 760

RAILROAD

Passenger, Commuter, Tourist
None

Class I
Norfolk Southern
Canadian National/Bessemer and Lake Erie

Class II
None

Short Line
None

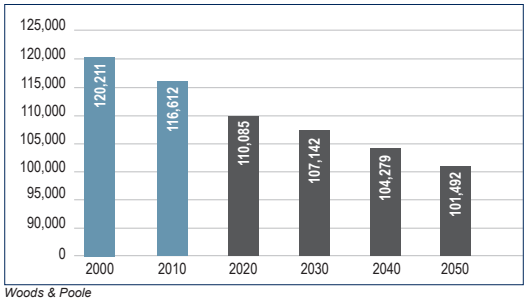
COMMERCIAL RUNWAY

None

POPULATION

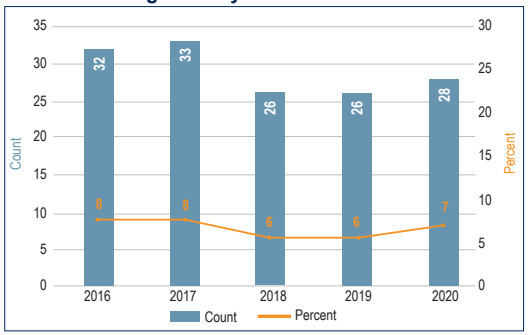
2018 Estimate
112,630

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 1.422 Million Square Feet (Msf)
PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	17.3
Retail Trade	14.1
Transportation and Warehousing	4.2
Construction	3.8
Wholesale Trade	2.9
Health Care and Social Assistance	20.9
Accommodation and Food Services	9.0
Mining, Quarrying, Oil and Gas Extraction	0.4

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Primary iron or steel products	1,451,709.2	Primary iron or steel products	1,701,146.5
Warehouse & distribution center	477,889.6	Processed milk	459,483.4
Dairy products	455,328.6	Gravel or sand	459,443.5
Petroleum refining products	440,340.7	Grain	294,967.1
Gravel or sand	273,128.7	Warehouse & distribution center	269,604.3
Broken stone or riprap	217,950.8	Metal scrap or tailings	211,265.9
Processed milk	106,550.2	Lumber or dimension stock	159,249.5
Primary forest materials	93,706.7	Misc. field crops	129,709.7
Plastic matter or synthetic fibers	82,177.9	Dairy products	99,043.0
Concrete products	73,195.7	Primary lead smelter products	75,222.4

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

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Wayne County

Wayne County Planning Commission

METRICS

Linear Miles of Roadway
1,405.64

Daily Vehicle Miles of Travel (DVMT)
1.11 Million

Truck DVMT
108,326

National Highway System (NHS) Mileage
6.6

PennDOT Pub. 600

ROADS

Interstates
84, 380

US Route
None

Select PA Route
None

RAILROAD

Passenger, Commuter, Tourist
None

Class I
None

Class II
None

Short Line
Central New York
Delaware Lackawaxen
Stourbridge

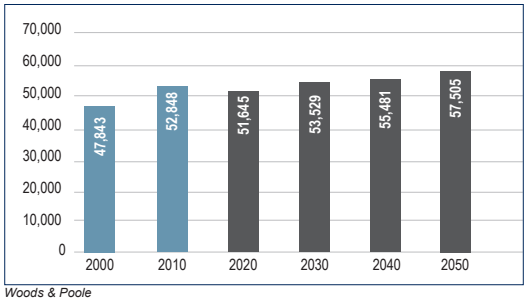
COMMERCIAL RUNWAY

None

POPULATION

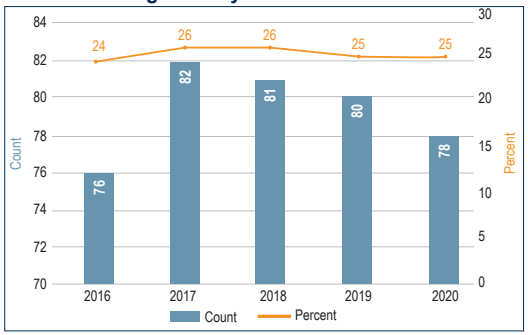
2018 Estimate
51,536

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: .505 Million Square Feet (Msf)

PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	4.2
Retail Trade	14.3
Transportation and Warehousing	2.6
Construction	9.7
Wholesale Trade	2.9
Health Care and Social Assistance	17.8
Accommodation and Food Services	13.5
Mining, Quarrying, Oil and Gas Extraction	0.4

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Broken stone or riprap	1,224,686.7	Broken stone or riprap	1,545,011.7
Warehouse & distribution center	205,821.6	Gravel or sand	127,520.4
Gravel or sand	101,174.2	Misc. field crops	98,648.3
Primary forest materials	58,859.4	Primary forest materials	83,608.7
Ready-mix concrete, wet	45,384.8	Dimension stone, quarry	77,248.7
Asphalt paving blocks or mix	38,965.8	Dairy products	63,664.0
Grain	27,186.8	Cut stone or stone products	28,349.3
Concrete products	26,513.1	Grain	24,471.8
Petroleum refining products	19,904.3	Ready-mix concrete, wet	17,299.9
Misc. nonmetallic minerals, n.e.c.	15,697.3	Lumber or dimension stock	16,334.0

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

PennDOT Virtual Statewide Freight Forum • November 5, 2020

Williamsport MPO

Williamsport Area Transportation Study

METRICS

Linear Miles of Roadway
1,981.42

Daily Vehicle Miles of Travel (DVMT)
2.82 Million

Truck DVMT
320,438

National Highway System (NHS) Mileage
83

PennDOT Pub. 600

ROADS

Interstates
180

US Routes
15, 220

Select PA Route
None

RAILROAD

Passenger, Commuter, Tourist
None

Class I
Norfolk Southern

Class II
None

Short Line
Lycoming Valley

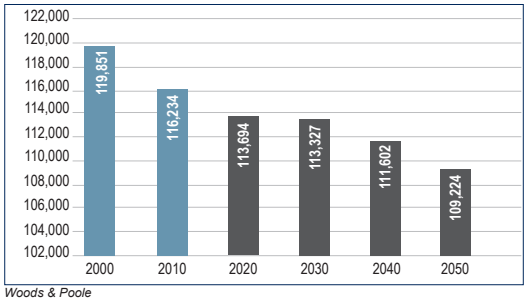
COMMERCIAL RUNWAY

Williamsport Regional

POPULATION

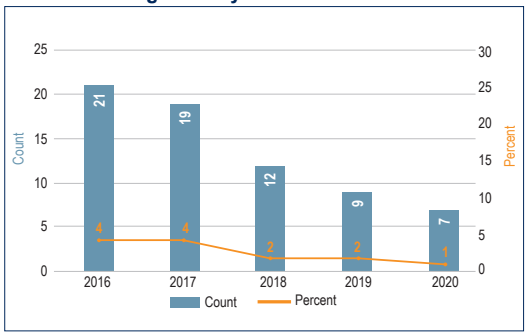
2018 Estimate
114,859

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 2.218 Million Square Feet (Msf)

PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	15.5
Retail Trade	11.4
Transportation and Warehousing	2.8
Construction	4.7
Wholesale Trade	4.3
Health Care and Social Assistance	17.3
Accommodation and Food Services	8.4
Mining, Quarrying, Oil and Gas Extraction	1.7

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Broken stone or riprap	1,735,969.4	Gravel or sand	1,663,696.3
Gravel or sand	675,670.2	Broken stone or riprap	1,239,901.4
Warehouse & distribution center	585,656.8	Bituminous coal	311,228.8
Primary iron or steel products	295,643.3	Processed milk	257,565.2
Dairy products	256,584.5	Paper waste or scrap	199,460.8
Ready-mix concrete, wet	165,627.8	Lumber or dimension stock	174,583.8
Primary forest materials	154,057.1	Aluminum or alloy basic shapes	161,486.3
Grain	112,870.7	Steel wire, nails or spikes	156,357.7
Asphalt paving blocks or mix	102,850.8	Misc. field crops	155,575.5
Concrete products	89,735.3	Grain	147,277.6

IHS Global Insight

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PLANNING PARTNER **Freight Profile**

PennDOT Virtual Statewide Freight Forum • November 5, 2020

York MPO

York Area Metropolitan Planning Organization

METRICS

Linear Miles of Roadway
3,859.83

Daily Vehicle Miles of Travel (DVMT)
9.14 Million

Truck DVMT
739,661

National Highway System (NHS) Mileage
120.3

PennDOT Pub. 600

ROADS

Interstates
76, 83

US Routes
15, 30

Select PA Routes
74, 94, 181, 462

RAILROAD

Passenger, Commuter, Tourist
Maryland and Pennsylvania

Class I
CSX Transportation
Norfolk Southern

Class II
None

Short Line
East Penn
York

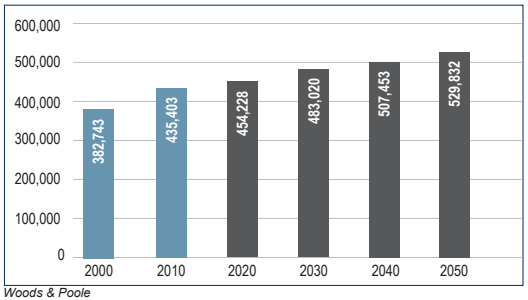
COMMERCIAL RUNWAY

Capital City Airport

POPULATION

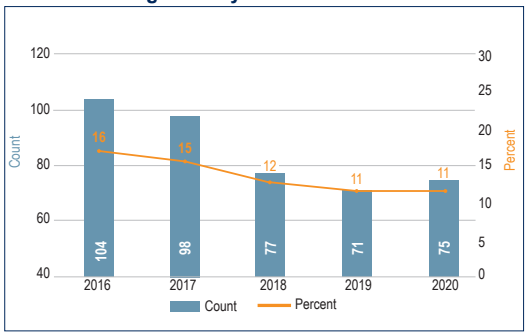
2018 Estimate
444,014

Population Trends and Projections



Woods & Poole

Poor State Bridges 8'+ by Count and Percent



2020 Deck Area: 1.855 Million Square Feet (Msf)
PennDOT

Employment by Freight Related Industry

% of Total Region Employment	Percentage
Manufacturing	17.6
Retail Trade	11.4
Transportation and Warehousing	5.6
Construction	6.4
Wholesale Trade	3.8
Health Care and Social Assistance	15.2
Accommodation and Food Services	7.9
Mining, Quarrying, Oil and Gas Extraction	0.1

US Bureau of Labor & Statistics

Inbound and Outbound Commodities (2020)

Inbound	Thousands of Tons	Outbound	Thousands of Tons
Bituminous coal	3,726,252.2	Broken stone or riprap	11,291,659.3
Broken stone or riprap	3,304,887.9	Warehouse & distribution center	5,018,635.0
Petroleum refining products	2,717,049.7	Misc. food preparations, n.e.c.	1,059,769.7
Warehouse & distribution center	1,876,605.5	Concrete products	762,652.8
Gravel or sand	669,789.6	Grain	500,800.5
Ready-mix concrete, wet	522,289.6	Rail intermodal drayage to ramp	436,078.7
Concrete products	455,510.7	Portland cement	407,669.7
Rail intermodal drayage from ramp	407,976.4	Processed milk	354,426.8
Grain	351,495.3	Nonmetal minerals, processed	311,231.8
Dairy products	339,106.0	Asphalt paving blocks or mix	304,718.9

IHS Global Insight

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Appendix 3

Freight-Related Employment

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Table 1: Pennsylvania Freight-Related Employment by County

Source: https://tmp-map.s3.amazonaws.com/dot/employment/pa-employment-by-block.html (2018 employ

Rank	County	Freight-Related Employment (TOTAL)	Agriculture	Mining	Manufacturing	Wholesale Trade	Transportation & Warehousing
26	ADAMS	**10,501**	1,142	70	8,011	61	1,217
1	ALLEGHENY	**76,196**	65	1,887	33,508	15,437	25,299
48	ARMSTRONG	**3,374**	51	679	1,483	337	824
27	BEAVER	**10,185**	6	31	6,487	766	2,895
51	BEDFORD	**2,970**	92	37	1,996	142	703
6	BERKS	**46,132**	2,330	168	31,092	5,670	6,872
24	BLAIR	**11,318**	157	84	6,736	1,572	2,769
30	BRADFORD	**7,133**	11	1,139	4,564	184	1,235
5	BUCKS	**46,691**	158	115	26,783	11,627	8,008
18	BUTLER	**18,875**	12	833	10,809	3,300	3,921
32	CAMBRIA	**7,070**	38	60	3,668	1,085	2,219
62	CAMERON	**887**	2	0	885	0	0
54	CARBON	**2,331**	0	0	1,657	250	424
36	CENTRE	**6,175**	129	202	3,673	518	1,653
10	CHESTER	**38,225**	4,405	80	16,922	8,961	7,857
57	CLARION	**1,971**	20	81	1,543	125	202
37	CLEARFIELD	**6,050**	7	264	2,612	348	2,819
45	CLINTON	**4,048**	110	654	2,659	207	418
35	COLUMBIA	**6,363**	3	0	4,784	177	1,399
29	CRAWFORD	**7,847**	124	306	6,475	298	644
15	CUMBERLAND	**29,408**	145	0	7,994	3,068	18,201
14	DAUPHIN	**30,832**	89	26	11,496	6,333	12,888
9	DELAWARE	**39,725**	89	50	13,518	5,182	20,886
31	ELK	**7,116**	7	0	6,606	175	328
16	ERIE	**24,305**	130	11	18,814	2,275	3,075
33	FAYETTE	**6,866**	10	1,300	3,310	613	1,633
66	FOREST	**119**	0	7	111	0	1
21	FRANKLIN	**16,195**	337	227	8,559	680	6,392
52	FULTON	**2,924**	44	178	2,690	11	1
49	GREENE	**3,312**	0	2,335	270	268	439
58	HUNTINGDON	**1,702**	105	75	1,272	88	162
38	INDIANA	**5,261**	78	1,073	1,870	1,427	813
41	JEFFERSON	**4,943**	95	487	3,786	191	384
56	JUNIATA	**2,174**	49	0	1,860	111	154
19	LACKAWANNA	**17,956**	102	34	9,530	3,177	5,113
3	LANCASTER	**61,020**	1,900	253	34,301	10,336	14,230
43	LAWRENCE	**4,612**	66	52	3,075	525	894
22	LEBANON	**13,026**	165	0	8,631	1,005	3,225
8	LEHIGH	**44,105**	300	141	18,701	8,132	16,831
11	LUZERNE	**36,555**	36	186	15,760	4,316	16,257
23	LYCOMING	**11,900**	1	1,180	7,546	1,511	1,662
46	MCKEAN	**4,026**	2	594	2,899	162	369
25	MERCER	**10,797**	41	140	7,888	913	1,815
40	MIFFLIN	**5,127**	80	0	4,307	270	470
28	MONROE	**7,890**	5	58	4,652	478	2,697
2	MONTGOMERY	**64,088**	179	149	35,676	16,813	11,271
60	MONTOUR	**1,174**	88	0	805	46	235
13	NORTHAMPTON	**31,079**	63	0	12,836	2,843	15,337
34	NORTHUMBERLAND	**6,591**	176	103	3,969	627	1,716
63	PERRY	**764**	0	0	473	0	291
4	PHILADELPHIA	**55,714**	0	0	17,836	12,034	25,844
65	PIKE	**341**	0	12	113	42	174
59	POTTER	**1,227**	41	59	589	232	306
20	SCHUYLKILL	**17,178**	655	436	10,272	570	5,245
44	SNYDER	**4,211**	34	0	3,543	428	206
39	SOMERSET	**5,147**	42	776	2,470	669	1,190
67	SULLIVAN	**31**	0	0	31	0	0
61	SUSQUEHANNA	**1,022**	0	391	276	156	199
53	TIOGA	**2,838**	2	376	1,975	267	218
55	UNION	**2,260**	4	0	1,679	154	423
42	VENANGO	**4,923**	0	39	3,870	237	777
50	WARREN	**3,299**	22	32	2,241	52	952
17	WASHINGTON	**19,030**	91	4,362	8,527	2,874	3,176
64	WAYNE	**587**	0	15	290	177	105
12	WESTMORELAND	**31,245**	217	1,255	15,441	5,770	8,562
47	WYOMING	**3,401**	107	214	1,956	206	918
7	YORK	**45,665**	135	206	30,294	5,037	9,993

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Appendix 4

PA Truck Commodity Tables

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Table 1: PA Truck Commodities (Inbound to PA/Tonnage), 2017

Commodity Code	Commodity	Weight (Thousands of Tons)	Rank
01	Live animals/fish	1902.6908	34
02	Cereal grains	11255.7329	14
03	Other ag prods.	9093.2695	18
04	Animal feed	10311.7371	15
05	Meat/seafood	4322.6263	25
06	Milled grain prods.	5724.8429	22
07	Other foodstuffs	33849.5243	4
08	Alcoholic beverages	3191.1712	29
09	Tobacco prods.	168.7267	40
10	Building stone	321.001	37
11	Natural sands	12284.7451	12
12	Gravel	73101.0321	1
13	Nonmetallic minerals	15969.241	8
14	Metallic ores	231.0691	39
15	Coal	22330.7373	5
16	Crude petroleum	162.3443	41
17	Gasoline	11669.8205	13
18	Fuel oils	13105.8553	10
19	Coal-n.e.c.	14915.8996	9
20	Basic chemicals	9727.2012	16
21	Pharmaceuticals	826.666	36
22	Fertilizers	2746.7537	30
23	Chemical prods.	6547.1307	20
24	Plastics/rubber	7717.757	19
25	Logs	9377.9927	17
26	Wood prods.	12423.4632	11
27	Newsprint/paper	5291.6712	23
28	Paper articles	4641.5359	24
29	Printed prods.	2016.5029	33
30	Textiles/leather	1636.3126	35
31	Nonmetal min. prods.	35197.8276	2
32	Base metals	20748.1549	6
33	Articles-base metal	5931.28	21
34	Machinery	3624.4419	27
35	Electronics	2412.7185	31
36	Motorized vehicles	3405.442	28
37	Transport equip.	109.1343	42
38	Precision instruments	255.6394	38
39	Furniture	2026.602	32
40	Misc. mfg. prods.	4074.7903	26
41	Waste/scrap	35065.9179	3
43	Mixed freight	18955.8227	7

Source: USDOT Freight Analysis Framework (FAF) version 5.0
(https://faf.ornl.gov/faf5/dtt_total.aspx)

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Table 2: PA Truck Commodities (Inbound to PA/Value), 2017

Commodity Code	Commodity	Value ($ Millions)	Rank
01	Live animals/fish	$3,344	30
02	Cereal grains	$1,759	33
03	Other ag prods.	$8,151	21
04	Animal feed	$6,553	23
05	Meat/seafood	$14,655	14
06	Milled grain prods.	$14,995	12
07	Other foodstuffs	$38,461	3
08	Alcoholic beverages	$4,594	28
09	Tobacco prods.	$3,133	31
10	Building stone	$228	41
11	Natural sands	$268	40
12	Gravel	$825	37
13	Nonmetallic minerals	$768	38
14	Metallic ores	$864	36
15	Coal	$1,416	34
16	Crude petroleum	$49	42
17	Gasoline	$6,022	26
18	Fuel oils	$6,370	25
19	Coal-n.e.c.	$6,983	22
20	Basic chemicals	$10,358	16
21	Pharmaceuticals	$44,335	2
22	Fertilizers	$877	35
23	Chemical prods.	$17,359	10
24	Plastics/rubber	$26,031	8
25	Logs	$481	39
26	Wood prods.	$9,430	18
27	Newsprint/paper	$5,297	27
28	Paper articles	$9,750	17
29	Printed prods.	$6,475	24
30	Textiles/leather	$17,305	11
31	Nonmetal min. prods.	$8,474	20
32	Base metals	$28,021	6
33	Articles-base metal	$14,932	13
34	Machinery	$27,528	7
35	Electronics	$33,046	4
36	Motorized vehicles	$29,522	5
37	Transport equip.	$1,771	32
38	Precision instruments	$9,002	19
39	Furniture	$10,649	15
40	Misc. mfg. prods.	$21,338	9
41	Waste/scrap	$3,788	29
43	Mixed freight	$57,058	1

Source: USDOT Freight Analysis Framework (FAF) version 5.0 (https://faf.ornl.gov/faf5/dtt_total.aspx)

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Table 3: PA Truck Commodities (Outbound from PA/Tonnage), 2017

Commodity Code	Commodity	Weight (Thousands of Tons)	Rank
01	Live animals/fish	2215.8112	32
02	Cereal grains	8342.3811	16
03	Other ag prods.	7717.179	17
04	Animal feed	11494.8831	13
05	Meat/seafood	3600.9782	25
06	Milled grain prods.	5043.6211	23
07	Other foodstuffs	30940.2388	4
08	Alcoholic beverages	2079.9163	33
09	Tobacco prods.	254.0674	39
10	Building stone	732.1662	36
11	Natural sands	6174.7352	21
12	Gravel	78318.9879	1
13	Nonmetallic minerals	15946.7521	8
14	Metallic ores	123.6376	40
15	Coal	33956.0091	3
16	Crude petroleum	102.1866	42
17	Gasoline	12876.1014	11
18	Fuel oils	13365.7988	10
19	Coal-n.e.c.	14051.6118	9
20	Basic chemicals	10052.5018	15
21	Pharmaceuticals	452.1261	37
22	Fertilizers	2233.4614	31
23	Chemical prods.	6023.0637	22
24	Plastics/rubber	7451.2589	18
25	Logs	10105.8588	14
26	Wood prods.	12428.1689	12
27	Newsprint/paper	3417.1879	27
28	Paper articles	6784.7804	20
29	Printed prods.	2414.6741	30
30	Textiles/leather	1722.153	35
31	Nonmetal min. prods.	45968.1224	2
32	Base metals	26515.6838	6
33	Articles-base metal	7176.5858	19
34	Machinery	3451.6249	26
35	Electronics	2627.1271	28
36	Motorized vehicles	2455.2542	29
37	Transport equip.	108.8163	41
38	Precision instruments	366.1346	38
39	Furniture	1971.9573	34
40	Misc. mfg. prods.	4785.9754	24
41	Waste/scrap	29294.1701	5
43	Mixed freight	22258.6266	7

Source: USDOT Freight Analysis Framework (FAF) version 5.0 (https://faf.ornl.gov/faf5/dtt_total.aspx)

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Table 4: PA Truck Commodities (Outbound from PA/Value), 2017

Commodity Code	Commodity	Value ($ Millions)	Rank
01	Live animals/fish	$3,802	28
02	Cereal grains	$1,198	35
03	Other ag prods.	$7,899	23
04	Animal feed	$8,224	20
05	Meat/seafood	$12,941	14
06	Milled grain prods.	$11,857	16
07	Other foodstuffs	$30,341	5
08	Alcoholic beverages	$3,300	29
09	Tobacco prods.	$2,267	33
10	Building stone	$373	39
11	Natural sands	$161	40
12	Gravel	$913	36
13	Nonmetallic minerals	$873	37
14	Metallic ores	$137	41
15	Coal	$2,552	31
16	Crude petroleum	$31	42
17	Gasoline	$6,844	25
18	Fuel oils	$6,260	26
19	Coal-n.e.c.	$8,186	21
20	Basic chemicals	$10,700	18
21	Pharmaceuticals	$57,226	2
22	Fertilizers	$1,248	34
23	Chemical prods.	$17,027	11
24	Plastics/rubber	$24,650	7
25	Logs	$569	38
26	Wood prods.	$11,228	17
27	Newsprint/paper	$3,949	27
28	Paper articles	$14,967	12
29	Printed prods.	$7,119	24
30	Textiles/leather	$13,479	13
31	Nonmetal min. prods.	$12,279	15
32	Base metals	$38,361	3
33	Articles-base metal	$20,456	10
34	Machinery	$32,463	4
35	Electronics	$30,196	6
36	Motorized vehicles	$21,583	9
37	Transport equip.	$2,291	32
38	Precision instruments	$8,076	22
39	Furniture	$10,593	19
40	Misc. mfg. prods.	$24,070	8
41	Waste/scrap	$2,865	30
43	Mixed freight	$71,348	1

Source: USDOT Freight Analysis Framework (FAF) version 5.0 (https://faf.ornl.gov/faf5/dtt_total.aspx)

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Appendix 5

PA Trading Partners by State (Truck)

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Table 1: PA Truck Trading Partners by State (Inbound to PA)

State	Weight (Tons)	Rank
Alabama	925,413.8	24
Alaska	8.2	49
Arizona	115,892.5	44
Arkansas	572,870.1	28
California	1,660,650.1	16
Colorado	299,880.5	33
Connecticut	2,030,029.9	13
Delaware	3,288,872.8	8
District of Columbia	132,908.2	43
Florida	1,493,405.4	20
Georgia	1,652,183.9	18
Idaho	169,201.6	40
Illinois	3,611,362.3	7
Indiana	2,465,404.5	12
Iowa	698,599.6	25
Kansas	664,088.8	26
Kentucky	1,902,144.7	14
Louisiana	408,800.5	29
Maine	1,655,776.1	17
Maryland	11,033,969.7	4
Massachusetts	1,438,743.9	21
Michigan	2,876,791.6	10
Minnesota	581,094.5	27
Mississippi	273,464.4	34
Missouri	1,354,647.2	22
Montana	17,482.7	48
Nebraska	221,961.1	37
Nevada	75,068.4	47
New Hampshire	233,186.6	36
New Jersey	26,679,265.5	1
New Mexico	75,775.4	46
New York	23,579,241.2	2
North Carolina	2,797,571.1	11
North Dakota	146,502.9	42
Ohio	14,225,351.3	3
Oklahoma	374,916.6	31
Oregon	216,864.5	38
Rhode Island	152,147.0	41
South Carolina	1,166,779.8	23
South Dakota	104,828.5	45
Tennessee	1,549,193.0	19
Texas	3,192,618.1	9
Utah	180,875.4	39
Vermont	383,304.2	30
Virginia	6,351,626.7	5
Washington	360,529.7	32
West Virginia	4,279,431.2	6
Wisconsin	1,680,500.4	15
Wyoming	234,473.8	35

Source: USDOT Freight Analysis Framework (FAF) version 5.1 (https://faf.ornl.gov/faf5/dtt_total.aspx)

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Table 2: PA Truck Trading Partners by State (Outbound from PA)

State	Weight (Tons)	Rank
Alabama	839,357.7	22
Alaska	27.9	49
Arizona	261,951.2	37
Arkansas	362,998.7	31
California	1,488,341.2	17
Colorado	310,795.4	34
Connecticut	2,545,067.9	14
Delaware	5,156,811.9	6
District of Columbia	167,636.4	41
Florida	2,213,757.7	16
Georgia	2,974,294.6	11
Idaho	108,273.1	44
Illinois	3,200,008.5	10
Indiana	3,725,111.6	8
Iowa	525,925.2	25
Kansas	371,243.4	28
Kentucky	947,446.5	21
Louisiana	151,390.9	43
Maine	401,857.0	27
Maryland	20,938,700.1	3
Massachusetts	2,597,221.6	13
Michigan	2,849,309.1	12
Minnesota	537,963.0	24
Mississippi	303,963.1	35
Missouri	815,319.5	23
Montana	58,840.2	46
Nebraska	179,056.6	40
Nevada	161,339.2	42
New Hampshire	525,674.0	26
New Jersey	30,620,483.7	1
New Mexico	76,426.7	45
New York	22,315,626.0	2
North Carolina	2,354,096.7	15
North Dakota	205,156.6	38
Ohio	18,597,579.1	4
Oklahoma	368,803.3	29
Oregon	196,964.5	39
Rhode Island	324,693.6	32
South Carolina	1,208,167.1	19
South Dakota	27,079.0	48
Tennessee	1,320,086.9	18
Texas	3,590,734.4	9
Utah	312,604.2	33
Vermont	363,327.3	30
Virginia	5,817,050.9	5
Washington	272,926.6	36
West Virginia	4,547,317.3	7
Wisconsin	1,037,572.1	20
Wyoming	38,505.6	47

Source: USDOT Freight Analysis Framework (FAF) version 5.1 (https://faf.ornl.gov/faf5/dtt_total.aspx)

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Appendix 6

PA Truck Bottlenecks

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PennDOT/RITIS Truck Bottleneck Analysis Methodology

Traffic bottlenecks were identified for the interstate and major non-interstate highways using a methodology developed by the University of Maryland and documented in the bottleneck reports produced for the Regional Integration Transportation Information System (RITIS). This analysis uses a comparison of congested highway speeds to free-flow speeds to identify the locations and severity of traffic bottlenecks.

This approach was developed for overall vehicular traffic and is not specific to truck traffic, so PennDOT refined this analysis by applying the following steps:

1. Identify 2019 and 2020 truck volumes for each segment using PennDOT RMS data.
2. For each year, calculate the freight bottleneck delay for each segment by multiplying the source bottleneck speed differential by the truck volume for that segment.
3. Develop a composite freight bottleneck delay by combining adjacent roadway segments into a single continuous roadway section for each location.
4. Rank the top 50 bottleneck locations across Pennsylvania.
5. For each analysis year, compute an index for each location based on a comparison to the worst bottleneck (i.e., ranked #1 on the list). The worst bottleneck for each analysis year is assigned a rating of 100.00, and the Index ratings for the remaining 50 bottlenecks are computed proportionally by the aggregate truck delays for each segment compared to the aggregate truck delays for the worst bottleneck.

The 2020 and 2019 truck bottleneck rankings are shown in the accompanying tables. Bottlenecks listed on the 2020 table and highlighted in yellow are those that are being addressed through recent or ongoing projects, or are listed on PennDOT's FY 2021-2024 Transportation Improvement Program (TIP).

The Freight Plan also includes a number of projects and initiatives that are not presently programmed. This points to an important function of the FMP. It should be routinely considered as programming occurs either in modal grant programs and/or the Twelve-Year Program—statewide or regional. Improving the planning-programming-performance connection is a major emphasis for both the LRTP and the FMP.

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Rank	County	Route #	Segments	Miles	Index
1	PHILADELPHIA	95	16	12.2	100.0
2	MONTGOMERY	76	12	11.6	66.2
3	CUMBERLAND	81	8	39.4	65.9
4	PHILADELPHIA	676	5	0.9	61.0
5	PHILADELPHIA	76	11	3.7	57.8
6	DELAWARE	476	10	11	54.9
7	DELAWARE	95	11	5.5	52.4
8	CLEARFIELD	80	5	28.2	45.9
9	LUZERNE	81	7	13.5	32.3
10	BERKS	222	5	10.3	31.7
11	ALLEGHENY	376	10	4.4	31.3
12	MONTGOMERY	7276	6	6.3	25.7
13	BERKS	78	4	18	24.9
14	DAUPHIN	83	6	2.7	21.4
15	LEBANON	81	3	9.7	18.1
16	DAUPHIN	81	3	9.9	18.0
17	NORTHAMPTON	78	5	23.2	17.7
18	NORTHAMPTON	22	3	3.7	16.6
19	WASHINGTON	70	1	0.1	13.8
20	MONTGOMERY	422	6	8	11.6
21	MONTGOMERY	476	3	4.7	10.6
22	CENTRE	80	1	11.9	10.6
23	LACKAWANNA	81	5	6.9	10.0
24	MONROE	80	3	4.6	9.9
25	ALLEGHENY	28	3	2	7.3
26	YORK	15	4	1	7.3
27	YORK	30	3	3.6	6.4
28	LANCASTER	222	1	0.1	6.3
29	LEHIGH	78	2	1.6	5.3
30	MERCER	80	1	0.7	5.2
31	BUCKS	95	2	4.4	5.1
32	JEFFERSON	80	1	9.7	4.8
33	LUZERNE	80	1	13.6	4.5
34	DELAWARE	322	2	5.6	4.4
35	ALLEGHENY	79	1	1.5	3.9
36	BUCKS	13	3	0.5	3.8
37	PHILADELPHIA	1	2	0.3	3.7
38	SOMERSET	7076	1	5.2	3.5
39	LEHIGH	22	2	0.8	2.5
40	LANCASTER	30	2	3.2	2.5
41	MONTGOMERY	7476	1	3.6	2.3
42	SCHUYLKILL	81	1	3.4	2.3
43	MONROE	45B1	1	0.3	2.2
44	SNYDER	11	1	0.4	2.2
45	BUCKS	7476	1	3.4	2.0
46	WASHINGTON	19	1	0.8	2.0
47	BUCKS	7276	1	4.2	1.9
48	BUTLER	79	1	4.7	1.9
49	CHESTER	41	1	1.7	1.9
50	LANCASTER	322	1	0.2	1.7

Source: PennDOT Analysis of Regional Integrated Transportation Information System (RITIS) Truck Travel Time Ratio (TTTR) Data

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Appendix 7

PA Rail Transload Facilities

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Table 1: Class I Railroads

Name	Description
Butler TRANSFLO (CSX) Facility	The Butler transloading facility is located in western Pennsylvania between Pittsburgh and Erie. Transloading services are offered for dry bulk, food grade, and liquid commodities. The facility is also capable of processing hazardous materials.
Chester TRANSFLO (CSX) Facility	The Chester transloading facility is located in southeastern Pennsylvania between Philadelphia and Wilmington. Transloading services are offered for dry bulk, food grade, and liquid commodities. The facility is also capable of processing hazardous materials.
Philadelphia TRANSFLO (CSX) Facility	The Philadelphia transloading facility is located along the Schuylkill River to the south of downtown Philadelphia. Transloading services are offered for dry bulk, food grade, and liquid commodities. The facility is also capable of processing hazardous materials.
Pittsburgh Thoroughbred Bulk Transfer (Norfolk Southern) Terminal	The Pittsburgh NS transloading facility is located to the west of downtown Pittsburgh. Transloading services are offered for dry bulk, food grade, and liquid commodities. The facility is also capable of processing hazardous materials.
Pittsburgh TRANSFLO (CSX) Facility	The Pittsburgh transloading facility is located along the Monongahela River to the southeast of downtown Pittsburgh. Transloading services are offered for dry bulk, food grade, and liquid commodities. The facility is also capable of processing hazardous materials.
Pottstown Thoroughbred Bulk Transfer (Norfolk Southern) Terminal	The Pottstown transloading facility is located in southeastern Pennsylvania to the northwest of Philadelphia. Transloading services are offered for dry bulk, food grade, and liquid commodities. The facility is also capable of processing hazardous materials.

Source: 2020 Pennsylvania State Rail Plan

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Table 2: Other PA Rail Transload Facilities

Facility Name	Municipality	County	Serving Carrier	Operator	Commodities Handled	Special Services
Fores Transload Facility	McKees Rocks	Allegheny	Pittsburgh, Allegheny, & McKees Rocks Railroad Company	Fores	Aggregates, Rocks, Sands	Transloading
Transload Express Glenwood Yard	Pittsburgh (Glenwood Junction)	Allegheny	Allegheny Valley Railroad, CSX	Carload Express	Pipe, Coil, Long bar and plate, I-beams, Oversized dimensional loads, Palletized cross dock items, Super sacks, Roll-on Roll-off shipments, Waste containers	40-ton capacity crane, Flat car "circus style" end ramp, Boxcar unloading, 9 acres of ground storage
Clayburg Transload Facility	Greenfield Township (Claysburg)	Blair	Everett Railroad	Everett Railroad	Unknown	Transload, Public delivery/Cross-Dock Track Facilities, Warehousing
Hollidaysburg Transload Facility	Hollidaysburg	Blair	Everett Railroad	Everett Railroad	Unknown	Transload, Public delivery/Cross-Dock Track Facilities, Warehousing
Martinsburg Facility	Martinsburg	Blair	Everett Railroad	Everett Railroad	Unknown	Public delivery/Cross-Dock Track Facilities, Warehousing
Tyrone Team Track	Tyrone	Blair	Nittany & Bald Eagle Railroad	North Shore Railroad Company & Affiliates	Aggregates, Coal (Assumed)	Multiple ground-level team tracks
Savage Services Corp Facility	Sayre	Bradford	Norfolk Southern	Savage Services Corp Facility	Pipe	Transloading
Tyburn Transload Facility	Morrisville	Bucks	CSX, Norfolk Southern	Tyburn Railroad LLC	Unknown	Transloading
Emporium Transload Facility	Emporium	Cameron	Western New York & Pennsylvania Railroad	Western New York & Pennsylvania Railroad	Fracking Sands	Transloading
Happy Valley Team Track	Pleasant Gap (Centre Hall)	Centre	Nittany & Bald Eagle Railroad	North Shore Railroad Company & Affiliates	Aggregates, Coal (Assumed)	Team track, Box car dock
East Penn Railroad Transload Facility	Avondale	Chester	East Penn Railroad	Regional Rail LLC	Unknown	Transloading
South Avis Realty	Avis	Clinton	Lycoming Valley Railroad	North Shore Railroad Company & Affiliates	Aggregates, Coal (Assumed)	Rail & truck scales, Sidings, 80+ acres
Berwick Industrial Development Association (BIDA) Yard	Berwick	Columbia	North Shore Railroad	North Shore Railroad Company & Affiliates	Aggregates, Coal (Assumed)	Ground-level team track
Farhinger Dock	Berwick	Columbia	North Shore Railroad	North Shore Railroad Company & Affiliates	Aggregates, Coal (Assumed)	Ramp access
Meadville Bulk Transload Facility	Meadville	Crawford	Western New York & Pennsylvania Railroad	B&H Railroad Corporation	Dry bulk, Aggregates, Sand, Grain, Fertilizer	Transloading
Fayette Rail Freight Terminal	Smithfield	Fayette	Southwest Pennsylvania Railroad	Carload Express	Unknown	Transloading
Lemont Furnace Transload Facility	Union Township (Lemont Furnace)	Fayette	Southwest Pennsylvania Railroad	Carload Express	Unknown	Transloading
Savage Services Corp Facility	Greencastle	Franklin	Norfolk Southern	Savage Services Corp Facility	Unknown	Transloading
Linde Transload Facility	Carbondale	Lackawanna	Delaware-Lackawanna Railroad	Carbondale Transload LLC	Aggregates, Sand, Pipe, Water, Wastewater, Bulk and Palletized Commodities, Specialized loads	Transloading

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Facility Name	Municipality	County	Serving Carrier	Operator	Commodities Handled	Special Services
Scranton Transload	Scranton	Lackawanna	Delaware-Lackawanna Railroad	Evercor	Unknown	Transloading
Halls Station	Muncy	Lycoming	Lycoming Valley Railroad	North Shore Railroad Company & Affiliates	Aggregates, Coal (Assumed)	Ground-level team track with pit
Saegers Siding	Muncy	Lycoming	Lycoming Valley Railroad	North Shore Railroad Company & Affiliates	Aggregates, Coal (Assumed)	Siding, Ramp
Faxon Street Transload Facility	Williamsport	Lycoming	Lycoming Valley Railroad	North Shore Railroad Company & Affiliates	Aggregates, Coal (Assumed)	Box car dock
LVRR Oil and Gas Transload	Williamsport	Lycoming	Lycoming Valley Railroad	Lycoming Valley Railroad	Aggregates, Coal (Assumed)	Ground level team track
NuWeld, Inc.'s Port City Steel	Williamsport	Lycoming	Lycoming Valley Railroad	North Shore Railroad Company & Affiliates	Aggregates, Coal (Assumed), Metals	Rail-to-truck, metal processing, 20-ton
Updegraffe Trucking	Williamsport	Lycoming	Lycoming Valley Railroad	NuWeld Inc.'s Port City Steel	Aggregates, Coal (Assumed)	Rail-to-truck, 9-acre adjoining lot
Port Allegheny Transload Facility	Port Allegheny	McKean	Western New York & Pennsylvania Railroad	Lansberry Trucking	Fracking Sands	Transloading, Siding for 14 cars, Unit train storage
Kish Creek Team Track	Burnham	Mifflin	Juniata Valley Railroad	North Shore Railroad Company & Affiliates	Aggregates, Coal (Assumed)	Ground-level team track
Jack's Creek Team Track	Derry Township	Mifflin	Juniata Valley Railroad	North Shore Railroad Company & Affiliates	Aggregates, Coal (Assumed)	Ground-level team track
Lewistown Yard	Lewistown	Mifflin	Juniata Valley Railroad	North Shore Railroad Company & Affiliates	Aggregates, Coal (Assumed)	Dock, Team track
Nittany Oil Transload Facility	Lewistown	Mifflin	Juniata Valley Railroad	North Shore Railroad Company & Affiliates	Aggregates, Coal (Assumed), Oil	40,000-Gallon Tank Storage, Sidings, Rail-to-Truck, Bulk transfer
Shamokin Valley Transload Facility	Coal Township (Shamokin)	Northumberland	Shamokin Valley Railroad	PA Rail Transloading, LLC	Aggregates, Coal, Drill Cuttings, Wood Chips, Additional Products	650-foot-high wall, 1,550-foot rail spur, 23 acres
Yards11	Northumberland	Northumberland	North Shore Railroad	North Shore Railroad Company & Affiliates	Aggregates, Coal (Assumed)	Railcar storage (180-car capacity)
Frac Sand Transload Facility	Allenport	Washington	Norfolk Southern	Tidewater Logistics	Frac Sands	Transloading
Westmoreland Rail Freight Terminal	Mount Pleasant	Westmoreland	Southwest Pennsylvania Railroad	Carload Express	Unknown	Transloading
Youngwood Transload Facility	Youngwood	Westmoreland	Southwest Pennsylvania Railroad	Carload Express	Unknown	Transloading

Source: 2020 Pennsylvania State Rail Plan

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Appendix 8

PA Rail Commodity

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Table 1: PA Rail Commodities (Inbound to PA/Tonnage), 2017

Commodity Code	Commodity	Weight (Tons)	Rank
01	Live animals/fish	0.0	41
02	Cereal grains	484,443.9	18
03	Other ag prods.	98,082.9	24
04	Animal feed	532,742.1	17
05	Meat/seafood	22,803.9	36
06	Milled grain prods.	120,554.7	22
07	Other foodstuffs	1,348,141.1	5
08	Alcoholic beverages	61,954.6	27
09	Tobacco prods.	0.0	41
10	Building stone	102.1	40
11	Natural sands	673,904.9	14
12	Gravel	963,357.5	8
13	Nonmetallic minerals	145,284.0	21
14	Metallic ores	23,660.5	33
15	Coal	20,399,608.3	1
16	Crude petroleum	1,927,415.3	3
17	Gasoline	1,029,719.2	6
18	Fuel oils	113,999.3	23
19	Coal-n.e.c.	768,382.8	11
20	Basic chemicals	1,016,522.9	7
21	Pharmaceuticals	664,645.2	15
22	Fertilizers	218,693.4	19
23	Chemical prods.	160,093.1	20
24	Plastics/rubber	2,106,625.9	2
25	Logs	48,798.9	28
26	Wood prods.	806,513.4	10
27	Newsprint/paper	1,392,374.1	4
28	Paper articles	68,610.5	26
29	Printed prods.	2,860.0	39
30	Textiles/leather	39,196.6	29
31	Nonmetal min. prods.	573,394.3	16
32	Base metals	907,889.7	9
33	Articles-base metal	685,703.4	12
34	Machinery	97,472.6	25
35	Electronics	23,375.7	34
36	Motorized vehicles	32,780.6	30
37	Transport equip.	23,191.0	35
38	Precision instruments	5,894.9	38
39	Furniture	27,905.2	32
40	Misc. mfg. prods.	28,863.7	31
41	Waste/scrap	685,106.2	13
43	Mixed freight	22,021.0	37

Source: USDOT Freight Analysis Framework (FAF) version 5.1 (https://faf.ornl.gov/faf5/dtt_total.aspx)

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Table 2: PA Rail Commodities (Inbound to PA/Value), 2017

Commodity Code	Commodity	Value ($ Millions)	Rank
01	Live animals/fish	$0	41
02	Cereal grains	$98	22
03	Other ag prods.	$69	26
04	Animal feed	$116	19
05	Meat/seafood	$52	30
06	Milled grain prods.	$77	23
07	Other foodstuffs	$697	7
08	Alcoholic beverages	$41	32
09	Tobacco prods.	$0	41
10	Building stone	$0	40
11	Natural sands	$17	36
12	Gravel	$11	38
13	Nonmetallic minerals	$24	34
14	Metallic ores	$9	39
15	Coal	$853	5
16	Crude petroleum	$605	9
17	Gasoline	$409	12
18	Fuel oils	$62	29
19	Coal-n.e.c.	$442	11
20	Basic chemicals	$548	10
21	Pharmaceuticals	$373	14
22	Fertilizers	$48	31
23	Chemical prods.	$238	16
24	Plastics/rubber	$2,078	1
25	Logs	$23	35
26	Wood prods.	$348	15
27	Newsprint/paper	$791	6
28	Paper articles	$39	33
29	Printed prods.	$12	37
30	Textiles/leather	$400	13
31	Nonmetal min. prods.	$100	21
32	Base metals	$1,202	2
33	Articles-base metal	$1,012	3
34	Machinery	$940	4
35	Electronics	$641	8
36	Motorized vehicles	$207	17
37	Transport equip.	$62	28
38	Precision instruments	$64	27
39	Furniture	$73	25
40	Misc. mfg. prods.	$101	20
41	Waste/scrap	$173	18
43	Mixed freight	$76	24

Source: USDOT Freight Analysis Framework (FAF) version 5.1 (https://faf.ornl.gov/faf5/dtt_total.aspx)

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Table 3: PA Rail Commodities (Outbound from PA/Tonnage), 2017

Commodity Code	Commodity	Weight (Tons)	Rank
01	Live animals/fish	0.0	41
02	Cereal grains	27,051.1	29
03	Other ag prods.	1,183,524.2	4
04	Animal feed	262,886.6	12
05	Meat/seafood	55,460.9	22
06	Milled grain prods.	40,323.6	25
07	Other foodstuffs	774,850.9	7
08	Alcoholic beverages	32,845.8	26
09	Tobacco prods.	0.0	41
10	Building stone	130.6	40
11	Natural sands	60,417.6	21
12	Gravel	1,523,316.6	2
13	Nonmetallic minerals	450,866.2	11
14	Metallic ores	150,425.7	16
15	Coal	36,406,300.1	1
16	Crude petroleum	73,714.9	19
17	Gasoline	70,748.5	20
18	Fuel oils	1,030,472.4	5
19	Coal-n.e.c.	149,072.7	17
20	Basic chemicals	222,590.8	15
21	Pharmaceuticals	652,904.5	9
22	Fertilizers	16,304.1	34
23	Chemical prods.	21,914.1	32
24	Plastics/rubber	1,443,496.5	3
25	Logs	47,357.8	23
26	Wood prods.	135,701.3	18
27	Newsprint/paper	227,284.2	14
28	Paper articles	10,730.0	36
29	Printed prods.	1,911.9	38
30	Textiles/leather	26,603.1	30
31	Nonmetal min. prods.	247,371.3	13
32	Base metals	925,402.5	6
33	Articles-base metal	649,279.7	10
34	Machinery	22,043.9	31
35	Electronics	12,672.6	35
36	Motorized vehicles	41,004.8	24
37	Transport equip.	16,616.9	33
38	Precision instruments	1,025.2	39
39	Furniture	3,671.0	37
40	Misc. mfg. prods.	28,178.3	28
41	Waste/scrap	717,665.0	8
43	Mixed freight	31,190.0	27

Source: USDOT Freight Analysis Framework (FAF) version 5.1
(https://faf.ornl.gov/faf5/dtt_total.aspx)

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Table 4: PA Rail Commodities (Outbound from PA/Value), 2017

Commodity Code	Commodity	Value ($ Millions)	Rank
01	Live animals/fish	$0	41
02	Cereal grains	$13	34
03	Other ag prods.	$903	4
04	Animal feed	$55	23
05	Meat/seafood	$352	10
06	Milled grain prods.	$60	22
07	Other foodstuffs	$474	8
08	Alcoholic beverages	$25	28
09	Tobacco prods.	$0	41
10	Building stone	$0	40
11	Natural sands	$1	39
12	Gravel	$15	33
13	Nonmetallic minerals	$12	35
14	Metallic ores	$24	29
15	Coal	$1,337	1
16	Crude petroleum	$22	31
17	Gasoline	$33	27
18	Fuel oils	$197	13
19	Coal-n.e.c.	$84	21
20	Basic chemicals	$164	15
21	Pharmaceuticals	$220	11
22	Fertilizers	$6	38
23	Chemical prods.	$49	26
24	Plastics/rubber	$1,283	2
25	Logs	$22	30
26	Wood prods.	$114	19
27	Newsprint/paper	$161	16
28	Paper articles	$12	36
29	Printed prods.	$9	37
30	Textiles/leather	$362	9
31	Nonmetal min. prods.	$52	24
32	Base metals	$577	5
33	Articles-base metal	$907	3
34	Machinery	$217	12
35	Electronics	$553	7
36	Motorized vehicles	$557	6
37	Transport equip.	$152	17
38	Precision instruments	$51	25
39	Furniture	$16	32
40	Misc. mfg. prods.	$100	20
41	Waste/scrap	$134	18
43	Mixed freight	$191	14

Source: USDOT Freight Analysis Framework (FAF) version 5.1 (https://faf.ornl.gov/faf5/dtt_total.aspx)

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Appendix 9

PA Trading Partners by State (Rail)

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Table 1: PA Rail Trading Partners by State (Inbound to PA)

State	Weight (Tons)	Rank
Alabama	175,821.5	21
Arizona	1,241.5	44
Arkansas	18,967.3	38
California	98,774.5	25
Colorado	85.0	48
Connecticut	21,840.4	37
Delaware	310,795.7	13
District of Columbia	525.8	46
Florida	96,346.6	26
Georgia	268,002.4	15
Idaho	80,690.1	28
Illinois	646,028.2	7
Indiana	451,313.8	9
Iowa	966,583.9	5
Kansas	133,972.7	23
Kentucky	686,284.0	6
Louisiana	314,831.7	12
Maine	71,876.7	29
Maryland	292,717.7	14
Massachusetts	3,688.0	42
Michigan	528,124.3	8
Minnesota	215,946.7	18
Mississippi	107,984.5	24
Missouri	28,838.9	35
Montana	18,156.3	39
Nebraska	31,291.7	34
Nevada	34,592.0	33
New Hampshire	316.7	47
New Jersey	194,322.1	20
New Mexico	23,230.9	36
New York	2,132,967.4	3
North Carolina	55,768.9	31
North Dakota	2,365,749.5	2
Ohio	200,951.7	19
Oklahoma	85,396.1	27
Oregon	38,927.9	32
Rhode Island	648.0	45
South Carolina	171,585.1	22
South Dakota	67,938.5	30
Tennessee	15,489.5	40
Texas	1,398,157.7	4
Utah	7,019.3	41
Vermont	2,035.6	43
Virginia	249,166.5	16
Washington	231,948.7	17
West Virginia	10,442,695.7	1
Wisconsin	370,753.2	11
Wyoming	388,505.4	10

Source: USDOT Freight Analysis Framework (FAF) version 5.1 (https://faf.ornl.gov/faf5/dtt_total.aspx)

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Table 2: PA Rail Trading Partners by State (Outbound from PA)

State	Weight (Tons)	Rank
Alabama	775,747.3	7
Arizona	6,665.7	30
Arkansas	10.6	43
California	253,928.0	13
Colorado	377.6	39
Connecticut	22,578.4	24
Delaware	39,405.1	21
District of Columbia	735.0	38
Florida	1,083,004.0	5
Georgia	59,753.3	17
Idaho	52,964.2	18
Illinois	436,720.8	10
Indiana	257,333.6	11
Iowa	19,021.4	25
Kansas	27,452.1	23
Kentucky	1,004.7	34
Louisiana	15,038.5	26
Maine	1,473.5	31
Maryland	4,184,723.0	2
Massachusetts	37,808.9	22
Michigan	112,080.6	16
Mississippi	749.6	37
Missouri	256,561.7	12
Montana	902.7	35
Nebraska	1,046.2	33
Nevada	323.6	40
New Hampshire	814.5	36
New Jersey	143,922.3	15
New York	792,364.4	6
North Carolina	3,643,321.3	3
North Dakota	167,939.9	14
Ohio	525,571.7	9
Oklahoma	301.3	41
Oregon	12,237.3	27
Rhode Island	1,220.7	32
South Carolina	1,649,695.0	4
South Dakota	11,284.5	28
Tennessee	7,653.2	29
Texas	562,993.8	8
Vermont	159.8	42
Virginia	18,231,829.6	1
Washington	42,952.8	20
Wisconsin	49,862.8	19

Source: USDOT Freight Analysis Framework (FAF) version 5.1 (https://faf.ornl.gov/faf5/dtt_total.aspx)

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Appendix 10

PA Water Commodity Tables (Domestic Only)

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Table 1: PA Domestic Water Commodities (Inbound to PA/Tonnage), 2017

Commodity Code	Commodity	Weight (Tons)	Rank
01	Live animals/fish	0.0	39
02	Cereal grains	3,641.3	30
03	Other ag prods.	37,284.5	17
04	Animal feed	21,797.1	19
05	Meat/seafood	19,096.4	21
06	Milled grain prods.	528.0	37
07	Other foodstuffs	159,175.1	11
08	Alcoholic beverages	3,406.0	31
09	Tobacco prods.	0.0	39
10	Building stone	0.0	39
11	Natural sands	478,557.6	6
12	Gravel	1,089,151.5	4
13	Nonmetallic minerals	228,779.0	9
14	Metallic ores	12,486.8	26
15	Coal	20,553,230.7	1
16	Crude petroleum	2,221,245.4	2
17	Gasoline	1,142,971.0	3
18	Fuel oils	435,832.5	7
19	Coal-n.e.c.	715,225.0	5
20	Basic chemicals	186,356.3	10
21	Pharmaceuticals	4,479.7	28
22	Fertilizers	15,743.4	23
23	Chemical prods.	13,087.3	25
24	Plastics/rubber	53,597.0	16
25	Logs	0.0	39
26	Wood prods.	25,343.8	18
27	Newsprint/paper	144,583.3	12
28	Paper articles	302.1	38
29	Printed prods.	1,749.6	33
30	Textiles/leather	4,884.2	27
31	Nonmetal min. prods.	95,586.6	13
32	Base metals	89,808.4	14
33	Articles-base metal	19,590.9	20
34	Machinery	18,144.6	22
35	Electronics	3,658.2	29
36	Motorized vehicles	61,441.3	15
37	Transport equip.	1,584.4	34
38	Precision instruments	1,174.9	36
39	Furniture	1,821.5	32
40	Misc. mfg. prods.	1,352.1	35
41	Waste/scrap	333,314.3	8
43	Mixed freight	14,426.8	24

Source: USDOT Freight Analysis Framework (FAF) version 5.1 (https://faf.ornl.gov/faf5/dtt_total.aspx)

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Table 2: PA Domestic Water Commodities (Inbound to PA/Value), 2017

Commodity Code	Commodity	Value ($ Millions)	Rank
01	Live animals/fish	$0	39
02	Cereal grains	$4	35
03	Other ag prods.	$47	18
04	Animal feed	$41	19
05	Meat/seafood	$87	14
06	Milled grain prods.	$1	38
07	Other foodstuffs	$214	7
08	Alcoholic beverages	$8	29
09	Tobacco prods.	$0	39
10	Building stone	$0	39
11	Natural sands	$4	34
12	Gravel	$9	28
13	Nonmetallic minerals	$38	20
14	Metallic ores	$4	33
15	Coal	$763	1
16	Crude petroleum	$714	2
17	Gasoline	$598	4
18	Fuel oils	$93	12
19	Coal-n.e.c.	$220	6
20	Basic chemicals	$109	10
21	Pharmaceuticals	$229	5
22	Fertilizers	$4	32
23	Chemical prods.	$95	11
24	Plastics/rubber	$193	8
25	Logs	$0	39
26	Wood prods.	$31	24
27	Newsprint/paper	$88	13
28	Paper articles	$2	37
29	Printed prods.	$12	27
30	Textiles/leather	$54	17
31	Nonmetal min. prods.	$31	23
32	Base metals	$76	16
33	Articles-base metal	$34	22
34	Machinery	$138	9
35	Electronics	$38	21
36	Motorized vehicles	$678	3
37	Transport equip.	$21	25
38	Precision instruments	$19	26
39	Furniture	$8	30
40	Misc. mfg. prods.	$8	31
41	Waste/scrap	$86	15
43	Mixed freight	$3	36

Source: USDOT Freight Analysis Framework (FAF) version 5.1 (https://faf.ornl.gov/faf5/dtt_total.aspx)

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Table 3: PA Rail Commodities (Outbound from PA/Tonnage), 2017

Commodity Code	Commodity	Weight (Tons)	Rank
01	Live animals/fish	67.1	37
02	Cereal grains	9,955.2	23
03	Other ag prods.	661,593.1	6
04	Animal feed	25,566.8	19
05	Meat/seafood	39,727.3	17
06	Milled grain prods.	1,093.3	35
07	Other foodstuffs	163,095.8	10
08	Alcoholic beverages	3,686.8	30
09	Tobacco prods.	0.0	40
10	Building stone	0.0	40
11	Natural sands	476,379.8	7
12	Gravel	873,879.6	5
13	Nonmetallic minerals	69,306.7	14
14	Metallic ores	36.3	38
15	Coal	3,873,315.9	2
16	Crude petroleum	7,640,175.5	1
17	Gasoline	1,160,172.7	4
18	Fuel oils	2,788,070.2	3
19	Coal-n.e.c.	26.3	39
20	Basic chemicals	187,206.6	9
21	Pharmaceuticals	5,790.7	28
22	Fertilizers	10,863.5	22
23	Chemical prods.	8,698.8	26
24	Plastics/rubber	30,319.6	18
25	Logs	0.0	40
26	Wood prods.	55,434.2	16
27	Newsprint/paper	151,092.6	11
28	Paper articles	1,688.7	33
29	Printed prods.	2,574.2	31
30	Textiles/leather	9,134.3	24
31	Nonmetal min. prods.	95,545.1	13
32	Base metals	105,897.5	12
33	Articles-base metal	20,831.9	20
34	Machinery	11,563.3	21
35	Electronics	3,725.2	29
36	Motorized vehicles	58,962.7	15
37	Transport equip.	7,549.5	27
38	Precision instruments	2,133.7	32
39	Furniture	824.0	36
40	Misc. mfg. prods.	1,592.8	34
41	Waste/scrap	310,973.1	8
43	Mixed freight	9,058.3	25

Source: USDOT Freight Analysis Framework (FAF) version 5.1 (https://faf.ornl.gov/faf5/dtt_total.aspx)

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Table 4: PA Domestic Water Commodities (Outbound from PA/Value), 2017

Commodity Code	Commodity	Value ($ Millions)	Rank
01	Live animals/fish	$0	37
02	Cereal grains	$22	24
03	Other ag prods.	$481	6
04	Animal feed	$44	20
05	Meat/seafood	$181	9
06	Milled grain prods.	$2	34
07	Other foodstuffs	$231	7
08	Alcoholic beverages	$10	26
09	Tobacco prods.	$0	40
10	Building stone	$0	40
11	Natural sands	$4	32
12	Gravel	$7	28
13	Nonmetallic minerals	$1	35
14	Metallic ores	$0	38
15	Coal	$601	5
16	Crude petroleum	$2,461	1
17	Gasoline	$606	4
18	Fuel oils	$728	2
19	Coal-n.e.c.	$0	39
20	Basic chemicals	$129	11
21	Pharmaceuticals	$126	12
22	Fertilizers	$3	33
23	Chemical prods.	$28	22
24	Plastics/rubber	$110	14
25	Logs	$0	40
26	Wood prods.	$52	18
27	Newsprint/paper	$91	15
28	Paper articles	$1	36
29	Printed prods.	$7	27
30	Textiles/leather	$20	25
31	Nonmetal min. prods.	$28	23
32	Base metals	$125	13
33	Articles-base metal	$45	19
34	Machinery	$63	16
35	Electronics	$42	21
36	Motorized vehicles	$650	3
37	Transport equip.	$179	10
38	Precision instruments	$56	17
39	Furniture	$4	31
40	Misc. mfg. prods.	$6	29
41	Waste/scrap	$225	8
43	Mixed freight	$6	30

Source: USDOT Freight Analysis Framework (FAF) version 5.1
(https://faf.ornl.gov/faf5/dtt_total.aspx)

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Appendix 11

Critical Urban and Rural Freight Corridors (CUFCs & CRFCs)

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Table 1: PA Critical Urban Freight Corridors - 2018/2019

Route #	Segment Start	Segment End	Length	MPO/RPO	County
4034	0010	0090	4.59	Erie County	Erie
0581	0011	0141	7.12	HATS	Cumberland
0005	0480	0550	2.44	Erie County	Erie
0100	0142	0174	2.01	Lehigh Valley	Lehigh
0315	0044	0150	5.38	Lackawana-Luzern	Luzerne
0051	0510	0540	1.59	SPC	Allegheny
0412	0090	0090	0.72	Lehigh Valley	Northhampton
0060	0110	0150	2.16	SPC	Allegheny
0022	0301	0311	0.76	HATS	Dauphin
2029	0020	0040	1.15	HATS	Cumberland
1010	0010	0030	1.03	HATS	Cumberland
0641	0720	0720	0.24	HATS	Cumberland
4017	0050	0060	0.70	Erie County	Erie
0465	94	0110	2.31	HATS	Cumberland
0063	0012	0062	2.77	DVRPC	Philadelphia
0022	0062	0230	9.18	Lehigh Valley	Lehigh
0030	0130	0340	10.21	York County	York
0290	0010	0120	5.45	Erie County	Erie
3029	0030	0040	0.55	York County	York
0315	0151	0161	0.82	Lackawana-Luzern	Luzerne
3007	0030	0050	1.05	HATS	Dauphin
0061	0050	0390	16.32	Reading	Berks
0295	0020	0030	0.70	York County	York
2005	0110	0130	0.95	York County	York
1011	0030	0060	1.66	HATS	Cumberland
0987	0010	0034	1.47	Lehigh Valley	Lehigh
0063	0012	0012	0.56	DVRPC	Bucks
3104	20	30	0.83	SPC	Allegheny
3104	0010	0010	0.25	SPC	Allegheny
3016	0004	0040	1.76	Lackawana-Luzern	Lackawana
0202	0010	0450	23.48	DVRPC	Chester
0011	0510	0560	2.32	HATS	Cumberland
0222	0050	0150	6.32	Lehigh Valley	Lehigh
0462	0010	0030	1.41	York County	York
2003	0010	0020	0.63	York County	York
0238	0114	0150	1.24	York County	York
0322	0010	0130	7.44	DVRPC	Delaware
0018	0350	0390	2.38	SPC	Beaver
4044	0010	0020	0.60	SPC	Beaver
0018	0474	0390	2.79	SPC	Beaver
1001	0230	0240	1.01	SPC	Allegheny
0063	0182	0222	2.27	DVRPC	Montgomery
0921	0120	0140	1.45	York County	York
0400	0004	0004	0.04	SPC	Allegheny
0181	0010	0020	0.76	York County	York
Gibson Boulevard	SR 3007 (S. 19th St.)	UPS Drive	0.20	HATS	Dauphin
Oak Street	US-11 (Front St.)	West 3rd Street	0.12	SEDA-COG	Columbia

TOTAL LENGTH (MILES) 141.18

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Table 2: PA Critical Rural Freight Corridors - 2018 (revised July 2020)

Route #	Segment Start	Segment End	Length	MPO/RPO	County
0222	0010	0040	2.34	Lehigh Valley	Lehigh
0222	0440	0680	12.94	Reading	Berks
0016	0380	0430	2.23	Franklin County	Franklin
0601	0030	0080	2.65	Southern Alleghenies	Somerset
4055	0010	0010	0.37	Southern Alleghenies	Somerset
0281	0490	0490	0.26	Southern Alleghenies	Somerset
0006	0364	0564	10.23	Lackawanna-Luzerne	Lackawana
0924	0010	0100	4.87	Lackawanna-Luzerne	Luzerne
0247	0110	0120	1.08	Lackawanna-Luzerne	Lackawana
0422	0190	0280	4.25	SPC	Butler
0015	0340	0500	7.12	SEDA-COG	Union
0322	0012	0012	0.49	Centre County	Centre
0222	0940	0960	1.94	Lancaster County	Lancaster
0062	0422	0680	13.09	Northwest PA	Warren
Country Ridge Road	US 30 Lincoln Higway	Packer Road	3.35	Southern Alleghenies	Bedford
Lingle Avenue	Hershey Park Dr.	Laudermilch Rd.	0.95	HATS	Dauphin
Commerce Dr.	Suscon Rd.	End of Road	1.03	Lackawanna-Luzerne	Luzerne
Forest Rd.	Intersection w/ 0924	Intersection w/ Commerce Dr	3.26	Lackawanna-Luzerne	Luzerne
Maplewood Dr.	End of Road	Intersection w/0924	1.20	Lackawanna-Luzerne	Luzerne
Scotch Pine Dr.	Intersection w/ Forest Rd	Intersection w/ 0924	0.48	Lackawanna-Luzerne	Luzerne
0611	0450	0530	4.33	NEPA	Monroe
0255	0040	0060	1.34	North Central PA	Clearfield
0970	0012	0032	1.58	North Central PA	Clearfield
0036	0074	0162	4.14	Altoona	Blair
0219	0010	0040	2.08	Johnstown	Cambria
0222	1010	1040	2.27	Lancaster County	Lancaster
0901	0132	0142	0.97	NEPA	Schuylkill
0940	0250	0260	1.02	NEPA	Monroe
0006	0210	0230	1.08	Northern Tier	Wyoming
0192	0330	0410	3.27	SEDA-COG	Union
0422	0246	0540	13.88	SPC	Armstrong
0216	0430	0440	1.23	York County	York
0851	0240	0250	0.87	York County	York
0053	0014	0016	0.49	Centre County	Centre
0150	0070	0100	2.05	Centre County	Centre
0219	0090	0100	0.98	Johnstown	Cambria
Rocherty Road (W505)	Intersection Cornwall	Route 72	0.45	Lebanon County	Lebanon
0061	0370	0480	6.46	NEPA	Schuylkill
0309	0270	0330	2.52	NEPA	Schuylkill
0901	0082	0132	2.91	NEPA	Schuylkill
0120	0020	0420	18.95	North Central PA	Elk
0879	0310	0340	1.66	North Central PA	Clearfield
0006	0470	0510	1.82	Northwest PA	Crawford
4013	0190	0210	1.08	SEDA-COG	Mifflin
0453	0040	0090	1.84	Altoona	Blair
0350	0010	0260	12.37	Centre County	Centre
0174	0040	0080	2.16	HATS	Cumberland
0233	0240	270	2.28	HATS	Cumberland
0743	0220	0320	4.98	HATS	Dauphin
0322	0140	0150	1.30	Lebanon County	Lebanon
0501	0190	0200	0.83	Lebanon County	Lebanon
0940	0260	0310	2.73	NEPA	Monroe
4007	0045	0063	1.10	NEPA	Schuylkill
0219	0514	0640	6.10	Southern Alleghenies	Somerset
3013	0010	0040	1.30	Altoona	Blair
0045	0310	0710	18.84	Centre County	Centre
T-941 Harrison Rd.	I-99 Exit 80 southbound ramp	College Avenue SR 0026	1.10	Centre County	Centre
Oakridge Rd	Intersection w/Maplewood Dr	Intersection w/0924	3.04	Lackawanna-Luzerne	Luzerne
Valley View Park	Intersection of SR 247	Intersection of McLane Roadway	0.23	Lackawanna-Luzerne	Lackawanna
0322	0220	0280	2.37	Northwest PA	Venango
0056	0310	0320	0.93	Southern Alleghenies	Bedford
0056	0140	0310	8.58	Southern Alleghenies	Bedford
0522	0400	0470	1.64	Southern Alleghenies	Fulton
4009	0260	0290	1.10	Southern Alleghenies	Bedford
8005	0510	0750	1.69	Southern Alleghenies	Somerset
Country Ridge Rd	Packer Road	SR 4009	0.54	Southern Alleghenies	Bedford
Weber Lane	SR 4009	Country Ridge Road	1.27	Southern Alleghenies	Bedford
0219	Intersection Berlin Plank Rd	Intersection Mason Dixon Hwy.	9.45	Southern Allegheneies	Somerset
0222	0860	0900	3.25	Lancaster County	Lancaster
0254	Penna Ave	Penna Ave	1.32	Northwest PA	Warren
0522	660	750	5.53	Southern Alleghenies	Fulton
0026	0452	0460	0.61	Centre County	Centre
0934	0210	0230	1.18	Lebanon County	Lebanon
0209	0200	0210	1.01	NEPA	Schuylkill
0220	0010	0030	1.13	SEDA-COG	Clinton
0522	10	120	7.52	Southern Alleghenies	Huntingdon
2014	0404	0470	3.07	Williamsport	Lycoming
0164	0230	0240	0.20	Altoona	Blair
4005	0010	0010	0.28	Centre County	Centre
0219	0920	0930	0.67	North Central PA	Clearfield
0006	0150	0180	1.72	Northern Tier	Wyoming
0144	0386	0388	0.60	Centre County	Centre
3019	0010	0010	0.09	Southern Alleghenies	Fulton
0219	Intersection Mason Dixon Hwy.	PA State Line	10.00	Southern Alleghenies	Somerset

TOTAL LENGTH (MILES) 277.50

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Appendix 12

Freight Investment Plan

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PA FMP Appendix 12: Freight Investment Plan

The Freight Investment Plan is intended to help ensure that freight mobility is an important and regular consideration in project programming. Ideally freight factors are considered as part of developing all projects, as applicable.

The projects included in the Freight Investment Plan are a key input to the 12-Year Program and Statewide Transportation Improvement Program (STIP). Some projects are already part of the 12-Year Program and STIP. Others are not listed on those programs, but will be considered routinely as part of program updates.

It is also timely and important to note that a fiscally constrained Freight Investment Plan is a sound policy approach at any time. At this particular time there is a wide gap between PennDOT's resources and the annual investment need. This was documented by the Transportation Revenue Options Commission (TROC) in its strategic funding proposal as submitted to Governor Tom Wolf in July 2021 (https://www.penndot.gov/about-us/funding/Documents/TROC-Final-Report.pdf).

The fiscally constrained project list that follows reflects the proposed use of National Highway Freight Program (NHFP) funds distributed to Pennsylvania by formula under the IIJA. The new law allocated formula-based funded ranging from $1.37 billion to $1.48 billion each year through the NHFP for the purposes of improving the freight system across the U.S. These freight-specific projects are included in the STIP as approved by the State Transportation Commission (STC). The list will be updated as new projects are selected for inclusion in the STIP and approved by the STC. During future program updates, projects from the Freight Movement Plan's unfunded list as well as newly identified projects will be considered for inclusion, beginning with the 2025 12-Year Program update.

Federal law also allows for a portion of NHFP funding to go toward intermodal and rail projects. Given its railroading heritage, Pennsylvania's investment in rail freight infrastructure has been extensive, including an annual rail freight improvement program, and investments from the state capital budget which historically have included major investments such as the double-stack clearance program. A listing of unfunded candidate rail freight projects is also included as part of the freight investment plan for illustrative purposes. These projects are outside of fiscal constraint. The Freight Investment Plan's implementation will include a continuing focus on ways in which PennDOT can support rail freight or promote intermodal investments in water ports and air cargo.

The Commonwealth has provided a wide range of investments for the state's three water ports and will continue to participate in keeping this as an area of focus, working with the metropolitan planning organizations/rural planning organizations (MPOs/RPOs) and the ports directly in the Philadelphia, Pittsburgh, and Erie regions. The development of the Freight Movement Plan included workshops with the Delaware Valley Regional Planning Commission (DVRPC) and the Southwestern Pennsylvania Commission (SPC)—the MPOs in Philadelphia and Pittsburgh, respectively—as a tangible first step to ensure alignment between state freight planning and regional freight planning. The opportunity now is to build on the integration of the respective planning and programming efforts—state and regional.

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PennDOT will continue to take steps with the MPOs, RPOs, and other partners to promote freight investments and to ensure that freight factors are considered in project development. Further, PennDOT will work to further expand engagement with private-sector freight stakeholders to better understand freight issues and needs and to foster partnership and collaboration in addressing those needs wherever possible.

Table 1 depicts the amount of NHFP apportionments for Pennsylvania from FFY 2023 through 2034.

Table 1: NHFP Apportionments for Pennsylvania ($000s)

	2023	2024	2025	2026	2027-34	2023-34
Available	$56,879	$58,016	$59,177	$60,360	$482,880	$717,312
Programmed	$56,879	$58,016	$59,177	$60,360	$482,880	$717,312
Carry-Over	$0	$0	$0	$0		

Source: PennDOT Center for Program Development and Management

Table 2 depicts the fiscally constrained listing of freight projects using NHFP funding.

Table 2: List of Highway Projects from the 2023 TYP Using NHFP Funding (Fiscally constrained) ($000s)

MPMS#	Title/ Description	County	Route	NHFP Funds Programmed	Program Year
113378	Eisenhower Interchange B	Dauphin	I-83	$60,360	2032
Description:	The reconstruction and widening for lane additions from the Eisenhower Interchange; I-283 to the south to PA 441 Interchange; and US 322 to the east to Pen-Har Interchange in Swatara and Lower Paxton Townships, Dauphin County.				
113376	I-83 East Shore Section 3C	Dauphin	I-83	$60,360	2033
Description:	Replace and widen I-83 Viaduct Structure from the Susquehanna River to SR 0230 (Cameron Street) in Harrisburg City, Dauphin County.				
79828	I-95: Race-Sackamaxon	Philadelphia	I-95	$60,360	2027
Description:	Reconstruction, rehabilitation and widening of I-95 between Race Street and Shackamaxon Street and the reconstruction of the Northern Vine Street Interchange ramp connections with I-95, in the City of Philadelphia, Philadelphia County. This project includes rehabilitation, deck replacement, demolition, and replacement of eight bridges.				
113381	Eisenhower Interchange D	Dauphin	I-83	$60,360	2034
Description:	This project consists of the I-83 Interchange reconstruction and widening, Derry Street Interchange and bridge replacements in Swatara Township, Dauphin County.				

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103558	I-95 SB: Ann St – Wheatsheaf Lane	Philadelphia	I-95	$60,360	2030
Description:	Project will reconstruct I-95 from Clearfield Street to Wheatsheaf Lane, including reconstruction of the SB on-ramp and SB off-ramp at Allegheny Avenue. Also included is construction of associated retaining walls, sound barrier walls, and roadway on fill sections. Project is in Lower Makefield Twp, Bucks County				
103559	I-95: Betsy Ross Mainline SB	Philadelphia	I-95	$120,720	2028, 2029
Description:	Project includes the southbound mainline construction from Wheatsheaf Lane to SR 0095 north of Margaret St. This contract will also remove the southbound collector/distributor and ramp which connects Aramingo Avenue, Harbison Avenue, Tacony Street and Bridge Street to I-95 southbound and the Betsy Ross Bridge. Project is in the City of Philadelphia, Philadelphia County.				
97828	I-83: East Shore Section 3	Dauphin	I-83	$58,016	2024
Description:	This project consists of reconstructing and widening for additional lanes on I-83 from the 19th Street Interchange to SR 3013 (29th Street) overpass and along the SR 0230 (Cameron Street), 19th Street and 29th Street corridors; and the new SR 0230 Cameron Street Interchange in Harrisburg City, Swatara Township and Paxtang Borough, Dauphin County.				
113357	I-83: East Shore Section 3B	Dauphin	I-83	$59,177	2025
Description:	Reconstruct and widen for additional lanes on I-83 from SR 0230 (Cameron Street) to about 1500 feet west of SR 3013 (29th Street) overpass and along the SR 3010 (Paxton Street) and 17th Street corridors; and structure replacements in Harrisburg City and Swatara Township, Dauphin County.				
113380	Eisenhower Interchange C	Dauphin	I-83	$60,360	2031
Description:	Reconstruction and widening for lane additions from the Eisenhower Interchange: I-83 to the south to the 29th Street overpass in Swatara Township, Dauphin County.				
92924	North York Widening #3 (Exit 21 and 22)	York	I-83	$60,360	2026
Description:	This project consists of bridge replacements, Reconstructing, Widening and Interchange Improvements on I-83 Exit 21 and Exit 22 Interchanges in Springettsbury, Spring Garden and Manchester Townships and North York Borough, York County.				
105438	I-376 Commercial St Bridge	Allegheny	I-376	$56,879	2023
Description:	Replacement of the I-376 Commercial Street Bridge along the Parkway East within the City of Pittsburgh, Allegheny County.				
			TOTAL	$717,312	

Source: PennDOT Center for Program Development and Management

Tables 3 through 11 on the following pages list illustrative candidate rail freight projects by region. These projects are not fiscally constrained.

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Project information was collected from a variety of sources. Identified schedule and costs are subject to change. The list of projects is not fiscally constrained.

Table 3: Proposed Freight Rail Projects in Northwest Region

Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
BLE (CN)	Class I	Access Existing or New Customers	Adamsville Industrial/Transload	TBD	TBD	Mercer
BLE (CN)	Class I	Access Existing or New Customers	Cranesville Industrial/Transload	TBD	TBD	Erie
BLE (CN)	Class I	Access Existing or New Customers	Grove City Industrial/Transload	TBD	TBD	Mercer
BLE (CN)	Class I	Access Existing or New Customers	Shenango Industrial/Transload	TBD	TBD	Mercer
BLE (CN)	Class I	Access Existing or New Customers	South Greenville Industrial/Transload	TBD	TBD	Mercer
BLE (CN)	Class I	Access Existing or New Customers	West Springfield Industrial/Transload	TBD	TBD	Erie
BLE (CN)	Class I	Improve Civil Works	US 62 Bridge and Tunnel Replacement	TBD	TBD	Mercer
NS	Class I	Access Existing or New Customers	Unit train siding at Stoney & 100-car loop track on Stoney industrial lead	$5.0	TBD	Crawford
NS	Class I	Improve Civil Works	Bridge Replacement ML 146.16 on Meadville Line to bring entire line segment up to 286K	$5.8	TBD	Mercer
NS	Class I	Improve Civil Works	Replacement of Bridge over Shenango River	TBD	TBD	Mercer
NS	Class I	Improve Terminal	Sharpsville Unit Car Rail Facility	TBD	TBD	Mercer
NS, CSX	Class I	Access Existing or New Customers	Rail Track linking OD pairs for hot ingot diversion	TBD	TBD	Warren
KRL	Class III	Improve Track	Direct Connection to CSX at New Castle Yard	$2.31	TBD	Lawrence
NCIR	Class III	Access Existing or New Customers	New Castle Industrial Railroad	TBD	TBD	Lawrence
WNYP	Class III	Improve Civil Works	Bridge OC 21.36 Replacement	$4.73	TBD	Venango
WNYP	Class III	Improve Civil Works	Bridge OC 33.14 Replacement	$11.0	TBD	Venango

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Table 4: Proposed Freight Rail Projects in North Central Region

Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
BPRR	Class II	Accelerated Maintenance	Rail Replacement on Buffalo Main Line	$0.8	TBD	McKean
BPRR	Class II	Accelerated Maintenance	Replace 5 bridge timber decks	$0.4	TBD	McKean
BPRR	Class II	Access Existing or New Customers	Additional rail infrastructure at American Refining Group	TBD	TBD	McKean
RJCP	Class III	Accelerated Maintenance	Tie & Rail Upgrade	$6.2	2022-2024	Clearfield
WNYP	Class III	Accelerated Maintenance	Crosstie and Track Replacement	$1.12	TBD	McKean
WNYP	Class III	Accelerated Maintenance	Ditching, culverts and drainage improvements	$0.029	TBD	Potter
WNYP	Class III	Accelerated Maintenance	Ditching, culverts and drainage improvements	$0.052	TBD	McKean
WNYP	Class III	Accelerated Maintenance	Ditching, culverts and drainage improvements	$0.19	TBD	Cameron
WNYP	Class III	Accelerated Maintenance	Rail Replacement with Continuously Welded Track	$0.4	TBD	Potter
WNYP	Class III	Accelerated Maintenance	Rail Replacement with Continuously Welded Track	$2.0	TBD	Cameron
WNYP	Class III	Accelerated Maintenance	Replace 5 bridge timber decks	$0.4	TBD	Cameron
WNYP	Class III	Accelerated Maintenance	Replace crossties and surface track	$0.62	TBD	Potter
WNYP	Class III	Accelerated Maintenance	Replace crossties and surface track	$3.2	TBD	Cameron
WNYP	Class III	Accelerated Maintenance	Retaining Wall Repairs	$1.5	TBD	Cameron
WNYP	Class III	Improve Civil Works	Bridge FV 1.2 Replacement	$6.3	TBD	McKean
WNYP	Class III	Improve Civil Works	Farmers Valley Branch bridge repairs	$5.05	TBD	McKean

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Table 5: Proposed Freight Rail Projects in Northern Tier Region

Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
NS	Class I	Access Existing or New Customers	New Track-Proposed New Milford Shale Rail Transload Site	$15.76	2019-2023	Susquehanna
NS	Class I	Access Existing or New Customers	New Tracks-Potential Kingsley Transload Site	TBD	TBD	Susquehanna
CNYK	Class III	Accelerated Maintenance	Track improvements to Class 3	$23.0	TBD	Pike, Susquehanna
LRWY	Class III	Accelerated Maintenance	Ties & Surfacing	$1.76	2022-2024	Bradford
LRWY	Class III	Access Existing or New Customers	New rail access to Former Wysox Sand & Gravel site	$5.78	TBD	Bradford
LRWY	Class III	Access Existing or New Customers	New Wysox Siding	$1.78	TBD	Bradford
LRWY	Class III	Access Existing or New Customers	Rail Access to Wyalusing Industrial Site	$7.51	TBD	Bradford
LRWY	Class III	Improve Terminal	Add track capacity for Tran Z Wyalusing Station Transload Facility	$2.53	TBD	Bradford
LRWY	Class III	Improve Terminal	New rail access to Shiner Road-Wysox Transload Facility site	$2.95	TBD	Bradford
LRWY	Class III	Improve Terminal	New Track-Wysox Shale Rail Transload Terminal Expansion	$1.61	TBD	Bradford
WCOR	Class III	Access Existing or New Customers	Replace bridge & track serving former Osram Sylvania plant	TBD	TBD	Tioga
WCOR	Class III	Access Existing or New Customers	Replace track & add new north end rail access to former Hitachi Manufacturing plant	TBD	TBD	Tioga

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Table 6: Proposed Freight Rail Projects in Northeast Region

Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
NS[(1)]	Class I	Accelerated Maintenance	D&H Improvements	$50.0	TBD	Columbia, Lackawanna, Luzerne, Northumberland, Susquehanna, Wyoming
NS	Class I	Improve Terminal	Taylor Intermodal Facility Container Cranes	$2.63	TBD	Lackawanna
NS	Class I	Improve Terminal	Taylor Yard Improvements	$20.0	TBD	Lackawanna
DL	Class III	Accelerated Maintenance	Change out worn rail on Pocono and Carbondale Mains	$0.42	2020-2025	–
DL	Class III	Accelerated Maintenance	Highway Crossing Surface Replacement	$0.36	2020-2025	–
DL	Class III	Accelerated Maintenance	New Ties on Pocono and Carbondale Mains	$0.88	2020-2025	–
DL	Class III	Accelerated Maintenance	Rail Change out	$0.59	2020-2025	–
DL	Class III	Accelerated Maintenance	Rail Change Outs on Pocono and Carbondale Mains	$0.42	2020-2025	–
DL	Class III	Access Existing or New Customers	Rail Access-East Stroudsburg Industrial Plant Site	$0.52	TBD	Monroe
DL	Class III	Improve Terminal	Construction of 2 Yard Tracks at Green Ridge	$0.52	2020-2025	–
DL	Class III	Improve Terminal	Lengthen yard tracks at Green Ridge Yard	$0.75	2020-2025	Lackawanna
DL	Class III	Improve Terminal	New Lighting at Green Ridge Yard	$0.072	2020-2025	–
DL	Class III	Improve Terminal	New Storage Track- Linde Carbondale Transload Facility	$2.17	2019-2023	Lackawanna
DL	Class III	Improve Terminal	Power Switch Installation at Scranton Yard	$0.35	2020-2025	–
DL	Class III	Improve Track	Crossover at Bridge 60	$0.28	2021-2023	–
DL	Class III	Improve Track	Double Track on Cedar Street Bridge	$0.27	2020-2025	–
DL	Class III	Improve Track	Siding Construction at Pocono Summit	$1.0	2020-2025	Monroe

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Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
DL	Class III	Rolling Stock	Purchase and Installation of Auxiliary Power Units on locomotives	$0.22	2020-2025	–
LS	Class III	Accelerated Maintenance	Tie & Rail Upgrade	$4.7	2021-2023	Luzerne
LS	Class III	Access Existing or New Customers	Rail Access to Avoca Industrial Site	$2.75	TBD	Luzerne
RBMN	Class III	Access Existing or New Customers	Add rail spurs-Good Spring Industrial Park	$1.11	TBD	Schuylkill
RBMN	Class III	Access Existing or New Customers	Rail access to proposed Mahanoy City inland port development	$6.42	TBD	Schuylkill
RBMN	Class III	Access Existing or New Customers	Reconstruct track & rail docks-Hydro Extrusions	$1.7	TBD	Schuylkill
RBMN	Class III	Grade Crossing	Humboldt Industrial Park Grade Crossings	$1.26	TBD	Luzerne
RBMN	Class III	Improve Terminal	Rail Yard Improvements including Turnout Replacement and Crossing Upgrade	$0.34	2021	Wyoming

(1) This project was listed on both Northeast and Central Region lists because it spans both regions but the costs were only accounted for once in the RSIP analysis.

Table 7: Proposed Freight Rail Projects in Central Region

Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
NS(1)	Class I	Accelerated Maintenance	D&H Improvements	$50.0	TBD	Columbia, Lackawanna, Luzerne, Northumberland, Susquehanna, Wyoming
NS	Class I	Access Existing or New Customers	New Capacity at DeGol Industrial Park	$10.0	2022-2030	Blair
NS	Class I	Improve Civil Works	Selinsgrove Railroad Bridge	$8.0	TBD	Snyder
NS	Class I	Improve Civil Works	Selinsgrove- Susquehanna River Bridge (NS)	$91.27	TBD	Northumberland
JVRR	Class III	Accelerated Maintenance	Maitland Industrial Track Rail Replacement	$3.0	2030+	Mifflin

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Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
JVRR	Class III	Accelerated Maintenance	Repairs on Maitland Branch Bridge No. 0.46	$0.05	2025+	Mifflin
JVRR	Class III	Accelerated Maintenance	Repairs to Burnham Branch Bridge No. 3.25 over Kishacoquillas	$0.2	2022	Mifflin
JVRR	Class III	Accelerated Maintenance	Repairs to Maitland Branch Bridge No. 4.53 over Jacks Creek	$0.12	2024	Mifflin
JVRR	Class III	Accelerated Maintenance	West Park Track Reconstruction	$0.77	2021	Mifflin
JVRR	Class III	Access Existing or New Customers	MCIDC Plaza and Mifflin County Industrial Park Improvements	$0.22	TBD	Mifflin
JVRR	Class III	Access Existing or New Customers	Rail Access-Mifflin Co. Industrial Development Center	$0.77	TBD	Mifflin
JVRR	Class III	Improve Terminal	Burnham Yard Additional Tracks (North Yards development)	$3.13	2020-2023	Mifflin
LVRR	Class III	Accelerated Maintenance	Rail Replacement on Avis Branch	$3.65	2021-2024	Lycoming
LVRR	Class III	Accelerated Maintenance	Repairs to Antlers I.T. Bridge No. 242.86	$0.3	2025+	Lycoming
LVRR	Class III	Accelerated Maintenance	Repairs to Avis I.T. Bridge No. 1.78 over Pine Creek	$0.2	2025+	Lycoming
LVRR	Class III	Accelerated Maintenance	Repairs to Avis I.T. Bridge No. 1.98 over HWY #2	$0.25	2022	Lycoming
LVRR	Class III	Accelerated Maintenance	Repairs to Avis I.T. Bridge No. 168.67 over Lawshe Run	$0.06	2022	Lycoming
LVRR	Class III	Accelerated Maintenance	Repairs to Avis I.T. Bridge No. 170.65 Avis I.T> Bridge No. 168.67 over Lawshe Run	$0.075	2025+	Lycoming
LVRR	Class III	Accelerated Maintenance	Repairs to Avis I.T. Bridge No. 171.30 over S.R. 220	$0.6	2022	Lycoming
LVRR	Class III	Accelerated Maintenance	Repairs to Avis I.T. Bridge No. 177.20	$0.18	2023	Lycoming
LVRR	Class III	Accelerated Maintenance	Repairs to LVRR I.T. Bridge No. 189.66 over Carpenters Run	$0.04	2025+	Lycoming
LVRR	Class III	Accelerated Maintenance	Repairs to LVRR I.T. Bridge No. 193.42	$0.075	2025+	Lycoming
LVRR	Class III	Accelerated Maintenance	Repairs to LVRR I.T. Bridge No. 198.15 over McClures Run	$0.2	2025+	Lycoming
LVRR	Class III	Improve Civil Works	Repairs to Antlers I.T. Bridge No. 179.44	$1.2	2021	Lycoming

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Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
LVRR	Class III	Improve Terminal	Upgrade Turnouts at Newberry Yard	$3.77	2023-2028	Lycoming
NBER	Class III	Accelerated Maintenance	Hilex and 84 Lumber Turnout Replacements	$0.44	2022	Centre
NBER	Class III	Accelerated Maintenance	Moose Run stream stabilization and culvert replacements	$2.0	2022	Centre
NBER	Class III	Accelerated Maintenance	NBER Main Flood Resiliency	$3.0	2022-2025	Clinton, Centre, Blair
NBER	Class III	Accelerated Maintenance	NBER Main shoulder cutting	$1.87	2022-2025	Clinton, Centre, Blair
NBER	Class III	Accelerated Maintenance	Port Matilda stormwater management	$0.8	2020-2021	Centre
NBER	Class III	Accelerated Maintenance	Repairs to Bellefonte Branch Bridge 31.08	$0.1	2023	Centre
NBER	Class III	Accelerated Maintenance	Repairs to Bellefonte Branch Bridge 31.10	$0.3	2023	Centre
NBER	Class III	Accelerated Maintenance	Repairs to Bellefonte Branch Bridge 36.90	$0.03	2022	Centre
NBER	Class III	Accelerated Maintenance	Repairs to Bridge No. 21.46 over Adams Creek	$0.25	2024	Centre
NBER	Class III	Accelerated Maintenance	Repairs to Bridge No. 26.01	$0.06	2025+	Centre
NBER	Class III	Accelerated Maintenance	Repairs to Bridge No. 33.65	$0.2	2025+	Centre
NBER	Class III	Accelerated Maintenance	Repairs to Bridge No. 51.21	$0.28	2024	Clinton
NBER	Class III	Accelerated Maintenance	Repairs to Bridge No. 6.17	$0.2	2022	Blair
NBER	Class III	Accelerated Maintenance	Repairs to Bridge No. 6.79	$0.2	2022	Centre
NBER	Class III	Accelerated Maintenance	Repairs to Bridge No. 9.76	$0.075	2025+	Centre
NBER	Class III	Accelerated Maintenance	Sayers Dam track welding	$4.71	TBD	Centre
NBER	Class III	Access Existing or New Customers	New rail spur to Coca Cola Waters bottling plant	$2.95	TBD	Centre
NBER	Class III	Access Existing or New Customers	Rail spur to Pighetti Site	$2.1	TBD	Centre
NBER	Class III	Improve Terminal	Build Track Scale in Bellefonte	$0.3	2030+	Centre
NBER	Class III	Improve Terminal	Wilson Yard - Track and Turnout Improvements	$0.47	2022	Centre
NBER	Class III	Improve Track	Castanea Runaround on Mill Hall Industrial Track	$1.61	2019-2023	Clinton
NSHR	Class III	Accelerated Maintenance	Bloomsburg to Lime Ridge Drainage Improvements	$0.75	2021	Columbia

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Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
NSHR	Class III	Accelerated Maintenance	Masonite Track Upgrade	$0.12	2021-2023	Northumberland
NSHR	Class III	Accelerated Maintenance	Rail Replacement	$2.96	TBD	Columbia
NSHR	Class III	Accelerated Maintenance	Rail Replacement - 101# & 105# to Heavier Rail Section (25 track miles)	TBD	2030+	Northumberland
NSHR	Class III	Accelerated Maintenance	Repairs to Bridge 207.66	$0.5	2024	Columbia
NSHR	Class III	Accelerated Maintenance	Repairs to Bridge No. 180.55	$0.06	2024	Columbia
NSHR	Class III	Accelerated Maintenance	Repairs to Bridge No. 191.52	$0.38	2022	Columbia
NSHR	Class III	Accelerated Maintenance	Repairs to Bridge No. 192.01	$0.06	2024	Columbia
NSHR	Class III	Access Existing or New Customers	Long run-around & rail access to Markunas Industrial Site	$1.09	TBD	Northumberland
NSHR	Class III	Improve Civil Works	Repairs to Bridge No. 186.18	$0.6	2023	Columbia
NSHR	Class III	Improve Civil Works	Repairs to Bridge No. 195.88 (Bear Camp)	$0.38	2021	Columbia
NSHR	Class III	Improve Terminal	Berwick Yard Improvements	$0.5	TBD	Columbia
NSHR	Class III	Improve Track	Increased track capacity at J.M. Smucker's plant	$0.37	2021-2023	Columbia
SHRR	Class III	Accelerated Maintenance	Rail Rehabilitation around Arcelor Mittal steel plant	$10.0	2023-2026	Dauphin
SHRR	Class III	Accelerated Maintenance	Track and Structure Improvements near Arcelor Mittal Steel Mill Property (3/4)	$2.85	2020-2021	Dauphin
SHRR	Class III	Improve Track	Arcelor Mittal Steel Mill Track Improvements Phase 4	$2.8	2022-2023	Dauphin
SVRR	Class III	Accelerated Maintenance	Carbon Run Branch Rehab and Bridge Work	$1.32	TBD	Northumberland
SVRR	Class III	Accelerated Maintenance	Drainage Improvements	$0.15	TBD	Northumberland
SVRR	Class III	Accelerated Maintenance	Poppy Road Bridge Rehabilitation (MP 11.35)	$0.15	TBD	Northumberland
SVRR	Class III	Accelerated Maintenance	Reconstruct Curves on SVRR Main (up to 8 miles)	$3.5	2030+	Northumberland
SVRR	Class III	Accelerated Maintenance	Repairs to Bridge No. 152.95	$0.1	2022	Northumberland
SVRR	Class III	Accelerated Maintenance	Repairs to Bridge No. 154.84	$0.75	2024	Northumberland
SVRR	Class III	Accelerated Maintenance	Repairs to Bridge No. 155.22	$0.38	2023	Northumberland
SVRR	Class III	Accelerated Maintenance	Repairs to Bridge No. 17.39	$0.2	2023	Northumberland

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Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
SVRR	Class III	Access Existing or New Customers	SEEDCO Industrial Park Rail Extension	$7.5	TBD	Northumberland
SVRR	Class III	Improve Terminal	Duke Oil Runaround Completion	$0.25	2030+	Northumberland
SVRR	Class III	Improve Terminal	Restoration of Shamokin Yard Tracks	$1.5	2030+	Northumberland
UCIR	Class III	Access Existing or New Customers	Extend rail service into Great Stream Commons Industrial Park	$3.5	2021	Union
UCIR	Class III	Improve Terminal	West Milton Yard Track Expansion	$2.18	TBD	Union

(1) This project was listed on both Northeast and Central Region lists because it spans both regions but the costs were only accounted for once in the RSIP analysis.

Table 8: Proposed Freight Rail Projects in Southwest Region

Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
BLE (CN)	Class I	Access Existing or New Customers	Branchton Industrial/Transload	TBD	TBD	Butler
BLE (CN)	Class I	Access Existing or New Customers	Butler Industrial/Transload	TBD	TBD	Butler
BLE (CN)	Class I	Access Existing or New Customers	Cheswick industrial/Transload	TBD	TBD	Allegheny
BLE (CN)	Class I	Access Existing or New Customers	Saxonburg Industrial/Transload	TBD	TBD	Butler
BLE (CN)	Class I	Improve Terminal	Scully Yard Expansion / Duffs Jct. Interchange Tracks Reconfiguration	$5.44	TBD	Allegheny
NS	Class I	Accelerated Maintenance	Midland Track Stabilization	$45.0	TBD	Beaver
NS	Class I	Access Existing or New Customers	Increased rail capacity at World Kitchens plant	$1.33	2019-2023	Washington
NS	Class I	Access Existing or New Customers	Serve new Transload facility	TBD	TBD	Greene
NS	Class I	Access Existing or New Customers	Track & switch improvements at Mon River Industrial Park	TBD	TBD	Washington
NS	Class I	Improve Civil Works	Creation of High Speed Intermodal Route for Doublestack Trains	$30.0	2023	Allegheny
NS	Class I	Improve Terminal	Construction and improvements for river docks	$7.0	2022-2032	Armstrong

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Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
BPRR	Class II	Improve Track	East Butler Yard & Interchange	$11.06	TBD	Butler
WE	Class II	Improve Civil Works	Replace Penn-Lincoln Highway Rail Bridge, I-376, US-22, US-30	TBD	TBD	Allegheny
WE	Class II	Improve Track	Bruceton Siding Extension	$3.12	TBD	Allegheny
WE	Class II	Improve Track	Rehabilitation of WE line	$20.0	2030	Allegheny Fayette Washington Westmoreland
AOR	Class III	Improve Track	Aliquippa Yard & CSX Connection	$1.6	TBD	Beaver
AVR	Class III	Accelerated Maintenance	Rail Relay through 2 tunnels on W&P Subdivision	$1.5	TBD	Washington
AVR	Class III	Accelerated Maintenance	Repairs to Allegheny River Bridge	$3.5	2021-2023	Allegheny
AVR	Class III	Access Existing or New Customers	Glenwood Yard Gantry Crane/track restoration	$3.2	2020-2022	Allegheny
AVR	Class III	Access Existing or New Customers	Logan's Ferry Rail-Truck-River	$4.74	TBD	Allegheny
AVR	Class III	Access Existing or New Customers	Verona Yard Restoration	$4.14	TBD	Allegheny
AVR	Class III	Improve Civil Works	Glenwood Yard Engine House & Improvements	$9.5	2021-2025	Allegheny
AVR	Class III	Improve Terminal	Arnold River-Rail Terminal	$6.69	TBD	Westmoreland
AVR	Class III	Improve Terminal	Glenwood Yard track & capacity improvements	$3.0	2021-2025	Allegheny
AVR	Class III	Improve Terminal	Washington Branch-Gambles	$2.07	TBD	Washington
AVR	Class III	Improve Track	Rebuild Allegheny River Sub 48th Street to 62nd Street	$7.7	2024	Allegheny
AVR	Class III	Improve Track	Rebuild Allegheny River Sub 62nd Street to Arnold	$10.0	2022-2028	Allegheny
CM	Class III	Access Existing or New Customers	Extend CM to interchange with NS	TBD	TBD	Greene
GET	Class III	Access Existing or New Customers	Future Rail Spur at Corporate Campus Business Park	TBD	TBD	Indiana

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Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
KJR	Class III	Access Existing or New Customers	Extend KJR 2 miles to Ford City Heritage & Industrial Park	TBD	TBD	Armstrong
KJR	Class III	Access Existing or New Customers	Rail spurs at Schenley Industrial Park	$1.15	TBD	Armstrong
KJR	Class III	Improve Civil Works	Repair/replace Kiskiminetas River bridge	$16.81	TBD	Westmoreland
Multiple	Class III	Improve Track	Preservation of terminal/switching lines	TBD	TBD	Multiple
RJCP	Class III	Accelerated Maintenance	Rail & Tie Upgrade	$5.0	2021-2024	Indiana
RJCP	Class III	Accelerated Maintenance	Ties & Surfacing I	$2.02	2021-2023	Indiana
RJCP	Class III	Accelerated Maintenance	Ties & Surfacing II	$1.35	2023-2026	Indiana
SWP	Class III	Accelerated Maintenance	Hunker to Youngwood Rail Replacement	$4.5	2022-2026	Westmoreland
SWP	Class III	Accelerated Maintenance	Oliver Siding Upgrades	$3.9	2022-2026	Fayette
SWP	Class III	Accelerated Maintenance	Youghiogheny Bridge Deck Upgrade	$0.75	2021-2022	Fayette
SWP	Class III	Accelerated Maintenance	Yukon Branch Track & Bridge Upgrades	$5.47	2022-2026	Westmoreland
SWP	Class III	Access Existing or New Customers	Rail extension to Dunbar Township Business Park	TBD	TBD	Fayette
SWP	Class III	Access Existing or New Customers	Smithfield-Gans Extension	$18.25	TBD	Fayette
SWP	Class III	Access Existing or New Customers	Westmoreland Co. Industrial Park Extension	TBD	TBD	Westmoreland
SWP	Class III	Improve Terminal	Expand Yard Capacity	TBD	2022-2025	Fayette, Westmoreland
SWP	Class III	Improve Terminal	Lemont Furnace-Tracks for Unloading Facility	$3.95	TBD	Fayette
SWP	Class III	Improve Terminal	Youngwood Yard Tracks/Transload facility	$9.77	TBD	Westmoreland
SWP	Class III	Improve Track	Mt. Pleasant Siding	$3.5	2022-2026	Westmoreland
SWP	Class III	Improve Track	New Greensburg Interchange Tracks	$5.01	TBD	Westmoreland
SWP	Class III	Improve Track	Radebaugh Interchange Expansion	$5.32	TBD	Westmoreland
URR	Class III	Accelerated Maintenance	Port Perry Bridge Repairs	$2.32	2021-2022	Allegheny
URR	Class III	Accelerated Maintenance	Yard Tie Replacement	$0.88	2021-2022	Allegheny

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Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
URR	Class III	Improve Terminal	Duquesne Wharf Reconfiguration	$4.75	2023-2024	Allegheny
URR	Class III	Improve Terminal	Port Perry Yard Extension	$1.3	2021-2022	Allegheny

Table 9: Proposed Freight Rail Projects in Southern Alleghenies Region

Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
NS	Class I	Access Existing or New Customers	Acquisition of Huntingdon Industrial Track from NS	$7.0	TBD	Huntingdon
NS	Class I	Access Existing or New Customers	Reconstruct rail spur to serve existing warehouse & manufacturing buildings	TBD	TBD	Huntingdon
EBTC	Class III	Access Existing or New Customers	Acquisition of EBT Track	$1.0	TBD	Huntingdon
EBTC	Class III	Access Existing or New Customers	Mainline Track Upgrade and New Transload Terminal	$2.0	2022-2023	Huntingdon
EV	Class III	Accelerated Maintenance	Track Upgrade to 286k	$18.2	TBD	Blair
EV	Class III	Access Existing or New Customers	Penn Mag Access	$8.23	TBD	Blair
EV	Class III	Improve Terminal	Truck Weigh Station	$0.15	TBD	Blair
RJCP	Class III	Accelerated Maintenance	Cresson Interchange Track Rehabilitation	$1.58	2021-2024	Cambria
RJCP	Class III	Accelerated Maintenance	Rail & Tie Upgrade	$5.85	2023-2025	Cambria
RJCP	Class III	Accelerated Maintenance	Ties & Surfacing	$1.35	2024-2027	Cambria

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Table 10: Proposed Freight Rail Projects in South Central Region

Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
NS	Class I	Improve Civil Works	Replace Keystone Corridor Bridges - Dauphin City	TBD	TBD	Dauphin
NS	Class I	Improve Civil Works	Replace Keystone Corridor Bridges - Lancaster City	TBD	TBD	Lancaster
NS	Class I	Improve Terminal	Enola Yard Improvements	$34.5	TBD	Cumberland
NS	Class I	Improve Track	Construction of Parallel NS Line and Switches	$2.2	2021	Lancaster
NS	Class I	Improve Track	Lemoyne Connection Construction	$20.0	TBD	Cumberland
GET	Class III	Accelerated Maintenance	GET Bridge Upgrades	$0.35	TBD	Cumberland, Adams
GET	Class III	Access Existing or New Customers	Gettysburg Industrial Park Track	$0.86	TBD	Adams
GET	Class III	Access Existing or New Customers	Green Mountain Road Transload Facility	$0.44	TBD	Cumberland
GET	Class III	Improve Terminal	Additional Siding	$1.27	TBD	Adams
SRC	Class III	Access Existing or New Customers	Track and Roadbed Rehabilitation on Keystone Corridor	$20.0	2024-2045	Lancaster
SRC	Class III	Improve Terminal	Leaman Yard Improvements Phase 2	$2.5	2023-2024	Lancaster
SRC	Class III	Improve Track	Track Capacity Upgrade on SRC Main Line	$5.0	2024-2030	Lancaster
YRC	Class III	Improve Terminal	Lincoln Yard Upgrade	$3.0	TBD	York
YRC	Class III	Improve Terminal	Poorhouse Yard Reconstruction	$4.33	TBD	York
YRC	Class III	Improve Track	BAE Systems Siding Reconfiguration-new spur track	TBD	TBD	York

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Table 11: Proposed Freight Rail Projects in Southeast Region

Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
CSX	Class I	Improve Civil Works	25th Street Viaduct Deck and Drainage Improvements	TBD	TBD	Philadelphia
CSX	Class I	Improve Terminal	Terminal/Yard Track Improvements	TBD	TBD	Bucks
NS	Class I	Access Existing or New Customers	New track to serve a potential industrial site	TBD	TBD	Berks
NS	Class I	Improve Civil Works	Replace Keystone Corridor Bridges - Chester City	TBD	TBD	Chester
NS	Class I	Improve Terminal	Navy Yard Terminal Expansion	$10.0	TBD	Philadelphia
NS	Class I	Improve Track	SEPTA Airport Line Expansion	$30.0	TBD	Philadelphia
AAR	Class III	Accelerated Maintenance	Upgrade Track	$0.8	TBD	Berks
CSAO	Class III	Accelerated Maintenance	Willits Road Viaduct Clearance project	$4.44	TBD	Philadelphia
CSAO	Class III	Access Existing or New Customers	Construct dry & refrigerated warehouse with rail spurs	TBD	TBD	Philadelphia
CSAO/PBL	Class III	Access Existing or New Customers	Proposed AdvanSix Rail Service Redesign	$15.5	2024	Philadelphia
CSAO	Class III	Improve Terminal	South Philadelphia Intermodal Rail Terminal Master Plan	$1.85	TBD	Philadelphia
CSAO	Class III	Improve Track	SEPTA Airport Line Bypass-Chester Secondary	$4.52	TBD	Philadelphia
CSAO	Class III	Improve Track	Stoney Creek Yard Run-Around Track	$1.26	TBD	Delaware
EBG	Class III	Access Existing or New Customers	Bridge, Track, and Transload Capacity Issues	$32.1	2021-2024	Berks Montgomery
ESPN	Class III	Accelerated Maintenance	Rail replacement, ties, and surfacing	$7.0	2022	Chester
ESPN	Class III	Accelerated Maintenance	Rail replacement, ties, and surfacing	$9.0	2022	Chester
ESPN	Class III	Improve Terminal	Avondale Transload-Extend Siding & Install Crossover	$1.08	TBD	Chester
ESPN	Class III	Improve Terminal	Toughkenamon Storage Track	$1.05	TBD	Chester
ESPN	Class III	Improve Terminal	Two New Oxford Storage Tracks	$1.36	TBD	Chester

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Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
ESPN	Class III	Improve Track	Construct two new Pocopson Sidings	$1.22	TBD	Chester
ESPN	Class III	Improve Track	Cossart Storage Track	$1.24	TBD	Chester
ESPN	Class III	Improve Track	Embreeville Storage Track	$1.61	TBD	Chester
MSU	Class III	Accelerated Maintenance	Bridge Maintenance and Repair	$0.5	2027-2030	Chester
MSU	Class III	Accelerated Maintenance	Main Running Tracks Tie Replacement and surfacing	$1.0	2031-2035	Chester
MSU	Class III	Accelerated Maintenance	Mold Prep Turnout Replacement (7)	$0.6	2036-2038	Chester
MSU	Class III	Improve Terminal	West Yard Rehabilitation	$0.7	2024-2026	Chester
MSUB	Class III	Accelerated Maintenance	Back Tracks Rehabilitation and Turnouts	$0.55	2038-2040	Chester
MSUB	Class III	Accelerated Maintenance	Bridge Maintenance and Repair	$0.45	2041-2042	Chester
MSUB	Class III	Accelerated Maintenance	Bridge materials	$0.5	2021	Chester
MSUB	Class III	Accelerated Maintenance	Main Line tie replacement and surfacing	$0.75	2026-2028	Chester
MSUB	Class III	Accelerated Maintenance	Track Materials Rebuild	$1.6	2020-2021	Chester
MSUB	Class III	Grade Crossing	Grade Crossing Improvements	$0.5	2034-2037	Chester
MSUB	Class III	Improve Terminal	Rail Scale Replacement	$0.4	2023-2025	Chester
MSUB	Class III	Improve Terminal	Ritchey Yard Rehabilitation and Turnouts	$2.0	2030-2033	Chester
MSUU	Class III	Accelerated Maintenance	Bridge Maintenance and Repair	$1.2	2023-2025	Montgomery
MSUU	Class III	Accelerated Maintenance	Main Line tie replacement and surfacing	$0.35	2025-2030	Montgomery
MSUU	Class III	Grade Crossing	Grade Crossing Improvement	$0.15	2034-2035	Montgomery
MSUU	Class III	Improve Track	New Track Construction	$0.5	2030-2033	Montgomery
NHRR	Class III	Accelerated Maintenance	Bridge Painting	$1.35	TBD	Bucks
NHRR	Class III	Accelerated Maintenance	Embankment erosion control	$0.79	TBD	Bucks
NHRR	Class III	Accelerated Maintenance	Grade Crossing Surface Improvement	$1.45	TBD	Bucks
NHRR	Class III	Accelerated Maintenance	Improvements to the New Hope Branch, Johnsonville to New Hope	$6.8	TBD	Bucks

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Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
NHRR	Class III	Accelerated Maintenance	Improvements to the New Hope Branch, Lansdale to Souderton	TBD	2025+	Bucks
NHRR	Class III	Accelerated Maintenance	Ivyland track improvements	$0.65	2024	Bucks
NHRR	Class III	Accelerated Maintenance	Production Surfacing	$1.52	TBD	Bucks
NHRR	Class III	Accelerated Maintenance	Rail Replacement	$9.0	TBD	Bucks
NHRR	Class III	Accelerated Maintenance	Reeder cut culvert repair	$0.38	TBD	Bucks
NHRR	Class III	Accelerated Maintenance	Spot ditching	$0.16	TBD	Bucks
NHRR	Class III	Accelerated Maintenance	Tie Installation	$3.63	TBD	Bucks
NHRR	Class III	Grade Crossing	Crossing Signal Replacement	$3.0	TBD	Bucks
NHRR	Class III	Grade Crossing	Replace at grade Signal System - Aquetong Road in Solebury Township	TBD	2024	Bucks
NHRR	Class III	Grade Crossing	Replace at grade Signal System - Bridge Street in New Hope	TBD	2024	Bucks
NHRR	Class III	Grade Crossing	Replace at grade Signal System - Ferry Street in New Hope	TBD	2024	Bucks
NHRR	Class III	Grade Crossing	Replace at grade Signal System - Lower Mountain Road in Solebury Township	TBD	2024	Bucks
NHRR	Class III	Grade Crossing	Replace at grade Signal System - Reeder Road in Solebury Township	TBD	2024	Bucks
NHRR	Class III	Grade Crossing	Replace at grade Signal System - Route 413 in Buckingham Township	TBD	2024	Bucks
NHRR	Class III	Grade Crossing	Replace at grade Signal System - Street Road in Buckingham Township	TBD	2024	Bucks
NHRR	Class III	Grade Crossing	Replace at grade Signal System - Sugan Road in New Hope	TBD	2024	Bucks
NHRR	Class III	Grade Crossing	Replace at grade Signal System - West Mechanic Street in New Hope	TBD	2024	Bucks
NHRR	Class III	Grade Crossing	Replace at grade Signal System - Wilson Ave in Ivyland	TBD	2024	Bucks

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Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
NHRR	Class III	Improve Terminal	Warminster trans-load site improvements	$0.28	TBD	Bucks
NHRR	Class III	Improve Track	Siding Installation	$2.09	TBD	Bucks
NHRR	Class III	Rolling Stock	Locomotive and freight car repair facility with large machinery	$14.8	TBD	Bucks
PN	Class III	Accelerated Maintenance	Improvements to the Bethlehem and Stoney Creek Branches	$123.0	2024	Montgomery
PN	Class III	Accelerated Maintenance	Embankment erosion control	$0.42	TBD	Montgomery
PN	Class III	Accelerated Maintenance	Grade Crossing Improvements	$0.87	TBD	Montgomery
PN	Class III	Accelerated Maintenance	Improvements on the Stoney Creek between Lansdale and Norristown	TBD	2025+	Montgomery
PN	Class III	Accelerated Maintenance	Improvements to the Bethlehem Branch MP 24.20 – MP 30.50 (Lansdale to Souderton) and Stoney Creek Branch MP 0.0 – MP 3.0.	TBD	2025+	Montgomery
PN	Class III	Accelerated Maintenance	Production Surfacing	$0.86	TBD	Montgomery
PN	Class III	Accelerated Maintenance	Spot ditching	$0.13	TBD	Montgomery
PN	Class III	Accelerated Maintenance	Tie Installation	$2.61	TBD	Montgomery
PN	Class III	Grade Crossing	Crossing Signal Replacement	$1.2	TBD	Montgomery
PN	Class III	Grade Crossing	Replace at grade Signal System - Bergey Road in Hatfield Township, Pennsylvania	TBD	2024	Montgomery
PN	Class III	Grade Crossing	Replace at grade Signal System - Cannon Avenue in Lansdale, Pennsylvania	TBD	2024	Montgomery
PN	Class III	Grade Crossing	Replace at grade Signal System - Central Ave in Souderton, Pennsylvania	TBD	2024	Montgomery
PN	Class III	Grade Crossing	Replace at grade Signal System - Hancock Street in Lansdale, Pennsylvania	TBD	2024	Montgomery

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Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
PN	Class III	Grade Crossing	Replace at grade Signal System - Orvilla Road in Hatfield Township, Pennsylvania	TBD	2024	Montgomery
PN	Class III	Grade Crossing	Replace at grade Signal System - Schwab Road in Hatfield Township, Pennsylvania	TBD	2024	Montgomery
PN	Class III	Grade Crossing	Replace at grade Signal System - Union Road in Hatfield, Pennsylvania	TBD	2024	Montgomery
PN	Class III	Grade Crossing	Replace at grade Signal System - Vine Street in Hatfield, Pennsylvania	TBD	2024	Montgomery
PN	Class III	Improve Terminal	Feasibility of current Lansdale freight yard arrangement	TBD	2025+	Montgomery
PN	Class III	Improve Track	Dedicated Freight and Passenger track on the Bethlehem Branch	TBD	2025+	Montgomery
PN	Class III	Improve Track	Explore new interchange points with CSXT/SEPTA and expand PN trackage rights	TBD	2024	Montgomery
PN	Class III	Improve Track	Feasibility of two short line railroads (ESPN/PN) operating on the Lansdale to Quakertown portion of the Branch	TBD	2025+	Montgomery, Bucks
PN	Class III	Improve Track	Reactivate the SEPTA Jenkintown wye	TBD	2025+	Montgomery
PN	Class III	Improve Track	Relocation of CSXT/PN freight interchange	TBD	2025+	Bucks
PN	Class III	Improve Track	Siding Installation	$2.09	TBD	Montgomery
PN	Class III	Rolling Stock	Improvements to car repair facility	$14.8	TBD	Montgomery
PN	Class III	Rolling Stock	Maintenance of way machinery and rolling stock	$2.8	TBD	Montgomery
PN	Class III	Rolling Stock	PTC improvements to 5 locomotives	$1.38	TBD	Montgomery
SLRS	Class III	Accelerated Maintenance	1,500 Feet of Rail Relay - TAVO Lead	$0.18	2025-2030	Bucks
SLRS	Class III	Accelerated Maintenance	1,500 New Crossties	$0.14	2025-2030	Bucks

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Carrier(s)	RR Class	Project Type	Project	Estimated Cost ($M)	Schedule	County
SLRS	Class III	Accelerated Maintenance	2,200 Feet of Rail Relay - Wonder Lead	$0.26	2025-2030	Bucks
SLRS	Class III	Accelerated Maintenance	700 Feet of Rail Relay - on the Main at KTC Curve	$0.08	2025-2030	Bucks
SLRS	Class III	Accelerated Maintenance	750 Feet of Rail Relay - on the Main at Shea Lumber Curve	$0.09	2025-2030	Bucks
SLRS	Class III	Accelerated Maintenance	800 Feet of Rail Relay - Geoffrey Rd. to Newbold Rd.	$0.1	2025-2030	Bucks
SLRS	Class III	Accelerated Maintenance	850 Feet of Rail Relay - Blue Ridge Lead	$0.1	2025-2030	Bucks
SLRS	Class III	Access Existing or New Customers	Siding Installation (450 Feet)	$0.13	2025-2030	Bucks
SLRS	Class III	Access Existing or New Customers	Siding Installation (545 Feet)	$0.15	2025-2030	Bucks
SLRS	Class III	Access Existing or New Customers	Siding Installation (750 Feet)	$0.19	2025-2030	Bucks
SLRS	Class III	Improve Track	500 Foot Extension to Rite Aid Lead	$0.14	2025-2030	Bucks
SLRS	Class III	Improve Track	Installation of 1,400 Ft Run-Around	$0.41	2025-2030	Bucks

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NHFP Program: Eligible Activities

Program eligibilities and attributes of the NHFP Program include:

- Project development activities
- Construction, reconstruction rehabilitation, and land acquisition
- Intelligent Transportation Systems (ITS), including freight ITS
- Environmental mitigation related to freight impact
- Rail-highway grade separation
- Geometric design improvements
- Truck-only lanes
- Runaway and climbing truck lanes
- Shoulder widening
- Truck Parking Facilities
- Real-time information systems
- Electronic screening and credentialing
- Traffic signals
- Work Zone management
- Ramp metering
- ITS and other technologies for intermodal facilities and border crossings
- Additional road capacity for highway freight bottlenecks
- Any project that improves flow of freight to the NHFN
- Diesel retrofits
- Data collection and analysis

State DOTs may also use no more than 10 percent of apportioned funds on certain non-highway projects, such as governmental costs associated with rail and intermodal connectors.

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For Public Comment during September 19 - October 3, 2022

APPENDIX

PENNSYLVANIA
2045 Freight Movement Plan

pennsylvania
DEPARTMENT OF TRANSPORTATION

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