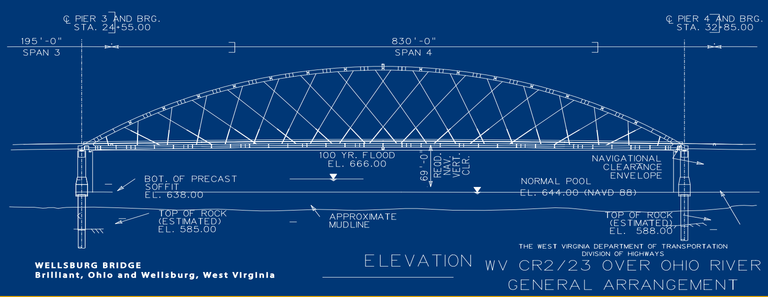


WELLSBURG BRIDGE
Brilliant, Ohio and Wellsburg, West Virginia

A Pocket Reference to

West Virginia's Transportation Data

2024

A Pocket Reference to **West Virginia's Transportation Data** 2024

West Virginia Department of Transportation
Information Technology Division
1900 Kanawha Boulevard East
Building 5, Room 720
Charleston, WV 25305

www.transportation.wv.gov

TABLE OF CONTENTS

ABOUT WEST VIRGINIA

231 Incorporated Places*

55 Counties

27 Urban Areas*

8 Metropolitan Planning Organizations (MPOs)

11 Regional Councils

10 WVDOH Districts

*Census 2010.

ABOUT WEST VIRGINIA

- West Virginia has the 6th largest transportation network in the nation.
- WV 20 is the longest route in the state, stretching 253.4 miles from Bluefield to New Martinsville.
- The New River Gorge Bridge, carrying US 19, features the longest steel span in the Western Hemisphere. It also ranks as the third highest bridge in the U.S., towering 876 feet above the New River Gorge.
- West Virginia has 38,844 miles of public road.
- West Virginia maintains more than 90% of public roads.

BRIDGES

Table 1. *Number of Bridges by Road Type*

Road Type	Number of Bridges
State	7,133*
Non-State	149
Total	**7,282****
Interstate	651
Ramps	72

**Bridges located on interstates are included in the state routes total above.*
***Bridges located on ramps are included in both the state routes and non-state routes total above.*
Source: HPMS Report and LRS Publication 3/2024.

CONGRESSIONAL DISTRICTS

WEST VIRGINIA AUTHORITIES

Jim Justice
Governor

Jimmy Wriston, P.E.
Cabinet Secretary / Commissioner of Highways

Alanna Keller, P.E.
Deputy Secretary / Deputy Commissioner of Highways

Shelley Moore Capito
U.S. Senator

Joe Manchin III
U.S. Senator

Carol Miller
District 1 Representative

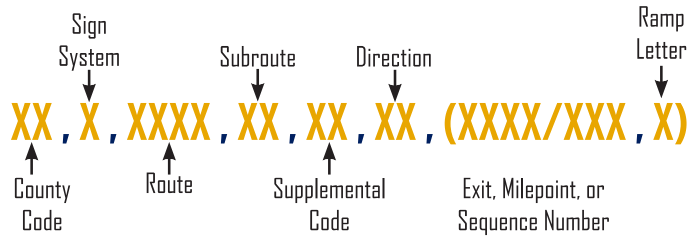
Alexander Mooney
District 2 Representative

ROUTE ID

Route ID for Countywide Milepoint Linear Referencing Method (LRM):

The Route ID system for Milepoint LRM in West Virginia organizes the state's roadways by dividing them into distinct segments, each assigned a specific code. This segmentation enhances tracking and reporting of road conditions, maintenance activities, and traffic patterns. By categorizing routes based on geography, traffic volume, and maintenance needs, the system allows transportation agencies to prioritize resources effectively and streamline communication. The use of codes simplifies data analysis, ensuring all stakeholders can easily reference road segments, ultimately contributing to improved infrastructure management and driver safety.

West Virginia Route ID Designation System.



Note: Commas are not part of the Route ID. They are shown for viewing purposes only.

1. **Most Route IDs have 13 characters/digits except for situations 2, 3, & 4.**

   2 digit county code, 1 digit sign system, 4 digit route, 2 digit subroute, 2 digit supplemental code, 2 character direction.

   Example: **5540085230000**

ROUTE ID

2. For a ramp not part of an existing route:

2 digit county code, 1 digit sign system, 4 digit route, 2 digit subroute, 2 digit supplemental code, 2 character direction, 4 character exit, 1 character ramp letter.

Example: **41100640017000124C**

Example: **17100790017SB0115C**

3. For crossovers (emergency/dual geometry):

2 digit county code, 1 digit sign system, 4 digit route, 2 digit subroute, 2 digit supplemental code, 2 character direction (add 4 digit crossing milepoint or sequence number on second occurrence on same route).

Example **emergency crossovers**: **5410077002600169**

Example **emergency crossovers**: **5410077002600177**

4. For a route of duplicate (regular crossovers and wyes):

2 digit county code, 1 digit sign system, 4 digit route, 2 digit subroute, 2 digit supplemental code, 2 character direction, 4 digit sequence number beginning with 001.

Example: **4360802000200**

Example: **43608020002000001**

COUNTIES

Table 2. *West Virginia Counties, Codes and Districts*

County Code	County Name	District
01	Barbour	7
02	Berkeley	5
03	Boone	1
04	Braxton	7
05	Brooke	6
06	Cabell	2
07	Calhoun	3
08	Clay	1
09	Doddridge	4
10	Fayette	9
11	Gilmer	7
12	Grant	5
13	Greenbrier	9
14	Hampshire	5
15	Hancock	6
16	Hardy	5
17	Harrison	4
18	Jackson	3
19	Jefferson	5
20	Kanawha	1
21	Lewis	7
22	Lincoln	2
23	Logan	2
24	McDowell	10
25	Marion	4
26	Marshall	6
27	Mason	1
28	Mercer	10

County Code	County Name	District
29	Mineral	5
30	Mingo	2
31	Monongalia	4
32	Monroe	9
33	Morgan	5
34	Nicholas	9
35	Ohio	6
36	Pendleton	8
37	Pleasants	3
38	Pocahontas	8
39	Preston	4
40	Putnam	1
41	Raleigh	10
42	Randolph	8
43	Ritchie	3
44	Roane	3
45	Summers	9
46	Taylor	4
47	Tucker	8
48	Tyler	6
49	Upshur	7
50	Wayne	2
51	Webster	7
52	Wetzel	6
53	Wirt	3
54	Wood	3
55	Wyoming	10

SIGN SYSTEM

Table 3. *Sign System Number and Sign System Name*

Sign System ID	Sign System Name	Description
0	MNS (Municipal Non-State)	Routes that are owned by a City or Municipality.
1	Interstates	High Speed, high volume traffic with full control access.
2	US Routes	Administered by AASHTO, US Routes are routes that connect states but are not necessarily built to interstate standards.
3	WV Routes	Routes that traverse the entire state and connects larger cities in the state.
4	County Routes	County routes are limited to the county they belong to. Their route number may not be repeated in the same county, but is allowed in others.
6	State Park and Forest Roads	Provide access to the Parks and Forests for recreation or commercial use.
7	Federal-aid Non-State (FANS)	Municipally owned federal-aid eligible roadways.
8	HARP Routes	Routes eligible for maintenance to serve as bus routes, mail routes, etc.
9	Other	Miscellaneous Routes that do not fit into any of the categories.

SUPPLEMENTAL CODE

Table 4. *Supplemental Code and Name*

Supplemental Code	Supplemental Description
00	No Qualifier or Not Signed
01	Alternate
02	Wye
03	Spur
04	North
05	South
06	East
07	West
08	Business Route
09	North Bound
10	South Bound
11	East Bound
12	West Bound
13	Truck Route
14	Bypass
15	Loop
16	Toll
17	Ramp
18	Other

Supplemental Code	Supplemental Description
19	City Streets - Non State
20	Road Under Construction
21	Footbridges
22	Historical Bridges
23	Connector
24	New or Proposed
25	Crossover (between dual geometry)
26	Emergency Crossover
27	Left Turn Lane
28	Right Turn Lane
29	Runaway Truck Ramp
30	Weigh Station
31	Rest Area / Welcome Center
51	Rail Trail
99	Abandoned

SURFACE TYPE

Table 5. *Surface Type*

Code	Surface Type Description
99	Primitive Road
1.1	Unimproved
1.2	Soil Surface Road - Dirt
1.3	Gravel or Stone
2.1	Asphaltic Concrete Road
2.2	Bituminous Surface Treated Road
3	JPCP – Jointed Plain Concrete Pavement (includes whitetopping)
4	JRCP – Jointed Reinforced Concrete Pavement (includes whitetopping)
5	CRCP – Continuously Reinforced Concrete Pavement
6	Asphalt-Concrete (AC) Overlay over Existing AC Pavement
7	AC Overlay over Existing Jointed Concrete Pavement
8	AC (Bituminous Overlay over Existing CRCP)
9	Unbonded Jointed Concrete Overlay on Portland Cement Concrete Pavement
10	Bonded Portland Cement Concrete Overlay on Portland Cement Concrete Pavement
11	Other

Wellsburg Bridge, Wellsburg, West Virginia
Photographer Troy Morgan
Public Relations Division
WVDOT

WVDOH DISTRICTS

District 1

District 2

District 3

District 4

District 5

District 6

District 7

District 8

District 9

District 10

The WVDOH is responsible for the construction, maintenance and improvement of West Virginia's roadways as well as supporting intermodal transportation and nation-wide planning projects to help manage the network. The WVDOH has ten districts across the state that locally perform maintenance, construction, traffic operations and permitting, and are on-call during inclement weather. WVDOH's district offices are located in the following cities:

- District 1 → Charleston
- District 2 → Huntington
- District 3 → Parkersburg
- District 4 → Clarksburg
- District 5 → Burlington
- District 6 → Moundsville
- District 7 → Weston
- District 8 → Elkins
- District 9 → Lewisburg
- District 10 → Princeton

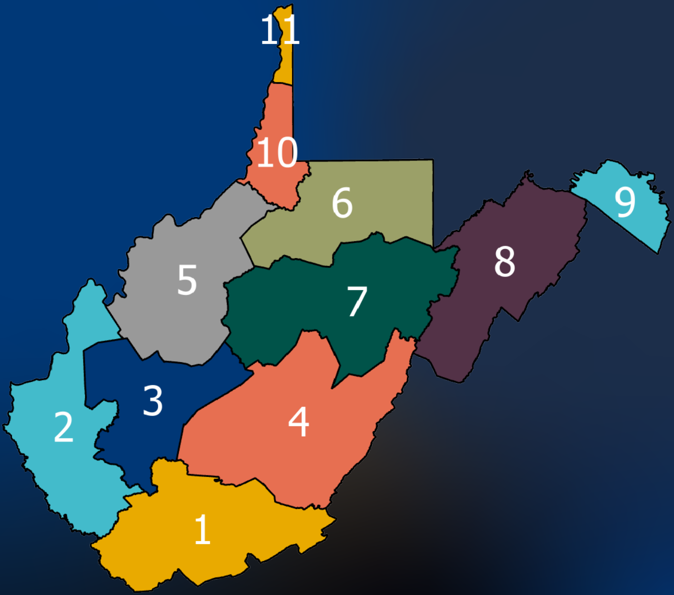
Table 6. *WVDOH District Mileage by Road Type*

	Interstate	US	WV	County	Totals
District 1	158	164	468	3,069	3,858
District 2	41	191	346	2,658	3,236
District 3	100	131	435	3,907	4,573
District 4	124	252	334	3,976	4,687
District 5	37	241	391	2,608	3,277
District 6	29	91	289	1,918	2,327
District 7	78	179	280	3,315	3,852
District 8	0	275	249	1,984	2,508
District 9	74	226	452	3,119	3,871
District 10	100	161	451	2,321	3,033
Totals	**742**	**1,910**	**3,695**	**28,876**	**35,224**

Note: Numbers rounded to the nearest whole number.

Source: LRS Publication 3/2024.

REGIONAL COUNCILS



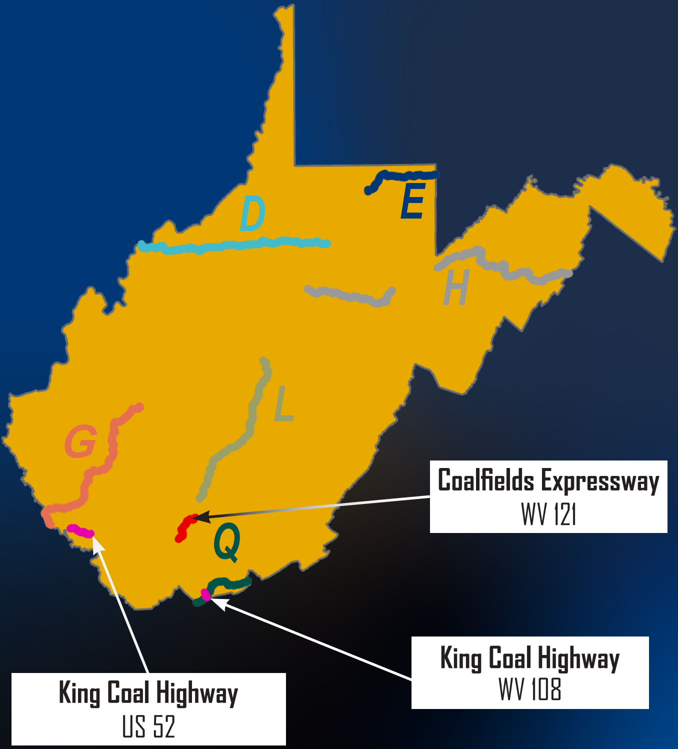
The 1971 Regional Planning & Development Act and West Virginia Code §8A-2-1, created 11 regions in West Virginia. The Regional Planning & Development Councils (RPDC) optimize funding resource use and improve small communities' opportunities to attract financial support, to foster community and cooperation throughout the state. RPDCs provide expertise and resources to help communities achieve growth objectives and manage funding effectively. For more information, visit https://www.wvregionalcouncils.com/

Table 7. *Regional Councils Population, Mileage and Usage*

Region	Total Population	Percent of WV	Miles	DVMT
Region 1	197,374	11%	4,541	5,330,715
Region 2	233,763	13%	4,150	5,058,104
Region 3	262,815	15%	3,192	7,669,600
Region 4	114,316	6%	3,881	3,386,089
Region 5	160,992	9%	5,123	4,119,551
Region 6	286,718	16%	4,864	6,966,201
Region 7	110,863	6%	4,749	3,357,679
Region 8	81,449	5%	2,583	1,926,671
Region 9	204,254	11%	1,521	4,204,302
Region 10	87,458	5%	1,491	1,900,382
Region 11	51,654	3%	471	834,820
Total	**1,791,656**	**100%**	**36,568**	**44,754,114**

Note: Numbers rounded to the nearest whole number.
Source: LRS Publication 3/2024, Census.gov.
DVMT = Daily Vehicle Miles Traveled.

ADHS CORRIDORS



Since its establishment in 1965, the Appalachian Development Highway System (ADHS) received dedicated annual funding from Congress for its construction. However, starting in 2012, with the passage of the Moving Ahead for Progress in the 21st Century Act (MAP-21) and its successor, the Fixing America's Surface Transportation (FAST) Act, this dedicated funding was discontinued. Instead, states were given the flexibility to build and complete ADHS corridors using a broader federal allocation. During this process, the Appalachian Regional Commission (ARC) plays an advisory role, collaborating with the Federal Highway Administration and state transportation authorities. In 2020, for the first time in several years, $100 million in specifically dedicated funding was allocated to the U.S. Department of Transportation for ADHS construction. These funds were then distributed to states based on their proportional share of remaining ADHS work as outlined in the 2013 ADHS Completion Plan.
Source: https://www.arc.gov/appalachian-development-highway-system/

Table 8. *Appalachian Development Highway System by Corridors*

Corridor	Total Length
Corridor D	94
Corridor E	46
Corridor G	77
Corridor H	113
Corridor L	80
Corridor Q	35
Total	**444**

Note: Current mileage open to the traffic, rounded to the nearest whole number. Source: LRS Publication 3/2024.

INTERSTATES

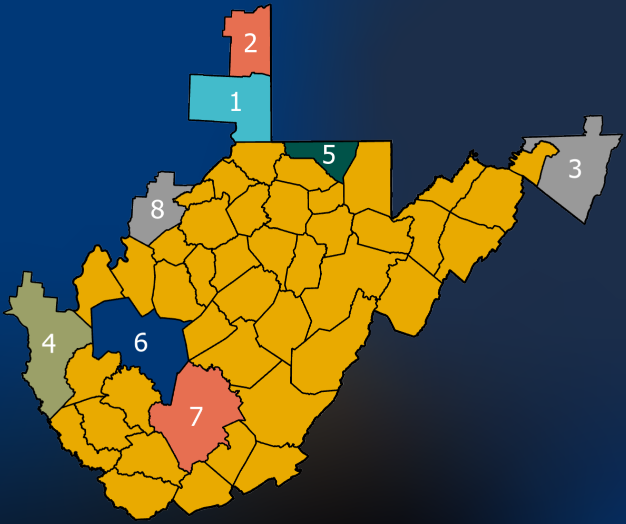
The Dwight D. Eisenhower National System of Interstate and Defense Highways, known as the Interstate System, includes 7 major routes in West Virginia. These routes, built to the standards of 23 U.S.C. 109, are designed to connect key metropolitan areas, cities, and industrial centers, and are of the highest importance.

Table 9. *Interstate Mileage and Usage*

Route	Miles	Lane Miles	DVMT
I-64	176	605	2,805,014
I-68	46	156	581,125
I-70	22	72	431,496
I-77	244	865	3,951,185
I-79	210	716	3,067,390
I-81	37	152	1,226,467
I-470	7	21	106,889
Totals	**742**	**2,587**	**12,169,568**

Note: Rounded to the nearest whole number. Source: LRS Publication 3/2024
DVMT = Daily Vehicle Miles Traveled.

METROPOLITAN PLANNING ORGANIZATIONS



West Virginia has 8 Metropolitan Planning Organizations (MPOs), federally mandated agencies that offer local input for urban transportation planning. They allocate federal funds to cities with populations over 50,000 to ensure safe, efficient, and coordinated transportation planning. MPOs focus on providing diverse transportation options and engaging the public in planning.

Table 10. *Metropolitan Planning Organizations*

Index	Name
1	Belomar Regional Council
2	Brooke Hancock Jefferson Metropolitan Planning Commission (BHJ-MPC)
3	Hagerstown/Eastern Panhandle Metropolitan Planning Organization (HEPMPO)
4	Kentucky - Ohio - West Virginia Interstate Planning Commission (KYOVA)
5	Morgantown Monongalia Metropolitan Planning Organization (MMMPO)
6	Regional Intergovernmental Council (RIC)
7	The Fayette/Raleigh Metropolitan Planning Organization (FRMPO)
8	WWW Interstate Planning Commission (WWW)

Source: https://www.wvampo.org/members.php.

MILEAGE

WVDOH maintains records of roadway mileage and calculates statistics that are used for decision making and planning purposes. Miles represent the total length of a roadway from its start to its end point. Lane miles are the miles multiplied by the number of lanes for each roadway section. Daily Vehicle Miles Traveled (DVMT) is the total miles traveled by vehicles in a specific area per day.

Table 11. *Mileage and Usage*

Sign System	Miles	Lane Miles	DVMT
1-Interstate	742	2,587	12,169,568
2-US	1,910	4,792	10,909,928
3-WV	3,695	7,647	11,266,601
4-County Route	28,876	57,768	9,729,459
Totals	**35,224**	**72,794**	**44,075,556**

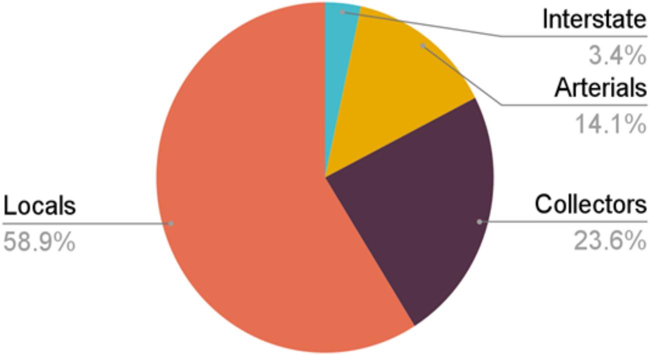
Note: Rounded to the nearest whole number. Source: LRS Publication 3/2024.

Table 12. *Mileage by National Functional Class*

Year	Interstate	Arterials	Collectors	Locals	Totals
2023	1,290	5,299	8,894	22,205	37,689
2022	1,290	5,285	8,895	22,206	37,676
2021	1,290	5,278	8,894	22,202	37,664
2020	1,311	5,288	8,876	22,237	37,712
2019	1,287	5,259	8,876	22,279	37,701
Totals	**6,469**	**26,409**	**44,435**	**111,128**	**188,441**

Note: Rounded to the nearest whole number. Source: LRS Publication 3/2024.

Figure 1. 2023 National Function Class



NATIONAL HIGHWAY SYSTEM

The National Highway System (NHS) is a network of selected principal arterial routes deemed essential for commerce, travel, national defense, and the transfer of people or goods to major intermodal facilities. The NHS comprises 4 subtypes of road systems: interstates, Strategic Highway Network (STRAHNET) routes, other principal arterials, and intermodal connectors. The STRAHNET routes are defined by the U.S. Department of Defense as critical roadways for national defense purposes.

Figure 2. *Percent NHS Mileage by Road System*

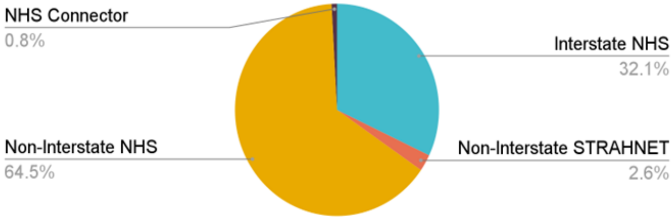


Table 13. *NHS Mileage by Road System*

Road System	Miles
Interstate NHS	742
Non-Interstate STRAHNET	59
Non-Interstate NHS	1,494
NHS Connector	20
Total	**2,316**

Note: Rounded to the nearest whole number Source: LRS Publication 3/2024.

Table 14. *NHS Mileage by NHS Value*

NHS Value	Miles
0-Not NHS	34,329
1-On NHS-Not Connector	2,214
2-Major Airport Connector	5
3-Major Port Facility Connector	15
4-Major Amtrak Station	1
6-Major Inner City Bus Terminal	1
7-Maj, Pub Transit Multi-modal Pass Term	2
Total	**36,566**

Note: Rounded to the nearest whole number. Source: LRS Publication 3/2024.

PAVEMENT CONDITIONS

Across West Virginia, WVDOH monitors and maintains pavement assets over their lifespan in order to lower costs and provide quality roads for citizens of West Virginia. WVDOH uses and reports comprehensive pavement rating guidelines created by FHWA. These guidelines define a segment of roadway as Good, Fair, or Poor based on the criteria in the table below.

On a yearly basis, WVDOH collects and analyzes data collected on road sections throughout the state. This data includes the International Roughness Index (IRI), cracking, rutting, and faulting of each road section. WVDOH uses this data to make informed decisions on ways to improve the roads and provide a better driving experience.

Table 15. *NHS Performance Measures for Pavement Conditions*

Metric	Unit	Good	Fair	Poor
IRI	Inches/Miles	<95	95-170	>170
Cracking: Joint Cracking	Percent	<5	5-15	>15
Cracking: Asphalt	Percent	<5	5-20	>20
Cracking:Concrete	Percent	<5	5-10	>10
Rutting	Inches	<0.20	0.20-0.40	>0.40
Faulting	Inches	<0.10	0.10-0.15	>0.15

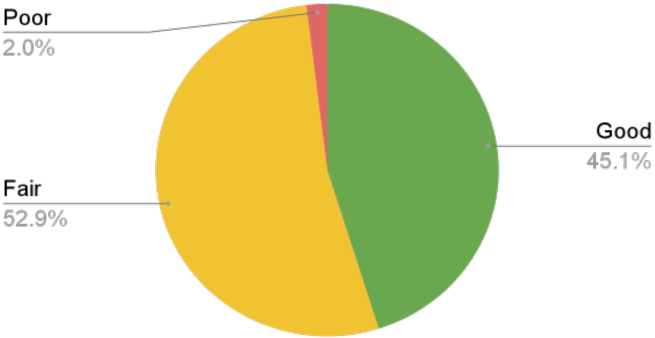
Source: Transportation Asset Plan FY 2019-2028.

Table 16. *OCI Rating Percentages on the NHS*

Road Category	Good	Fair	Poor
Interstate	62%	38%	0%
Non-Interstate	35%	62%	3%
Total	**45.1%**	**52.9%**	**2.0%**

Note: Rounded to the nearest whole number.
Source: Operations Division 2023 Data Collection.

Figure 3. *Overall OCI Rating Percentages on the NHS*



RAILROADS

1,920	Public Railroad Crossings in WV
2,123	Railroad Route Miles
1,338	Public Railroad Crossing on State Owned Routes
185	WVDOT Owned Railroad Miles
11	Freight Railroad Companies
2	Class I Railroads
9	Shortline and Regional Railroads

Note: Rounded to the nearest whole number.
Source: Association of American Railroads (aar.org) WV State Fact Sheet - June 2023.

RAMPS

Table 17. *Number of Ramps by WVDOH District and Road Type*

District	Interstate	Non-Interstate	Total
District 1	165	40	205
District 2	45	22	67
District 3	77	39	116
District 4	120	31	151
District 5	39	44	83
District 6	51	45	96
District 7	48	5	53
District 9	45	33	78
District 10	69	11	80
Total	**659**	**270**	**929**

Source: LRS Publication 3/2024

ROADS TO PROSPERITY

The Roads to Prosperity program consists of a series of funding measures that were launched in 2017 and are expected to generate approximately $2.8 billion for highway and bridge construction and maintenance all across West Virginia. These funding measures include an increase in various fees and taxes that fund a general obligation bond debt known as the Roads to Prosperity Amendment, an increase to the state's GARVEE bonding limits, and continued bonding of the West Virginia Parkways Authority's West Virginia Turnpike. Collectively, these funds are deposited into the State Road Fund for use on the state's approximately 36,000 miles of road..

More information https://transportation.wv.gov/driveforwardwv

Table 18. *Number of Roads to Prosperity Projects by District*

District	Approved Projects	Completed Projects
1	154	140
2	138	130
3	119	116
4	158	145
5	152	140
6	110	104
7	123	123
8	118	110
9	95	84
10	153	131
Totals	**1,320**	**1,223**

Source: Performance Management Division (8/2024).

HONORARIUMS

The West Virginia Legislative Concurrent Resolutions and Commissioner Orders can designate roads and other assets to acknowledge individuals or groups for their contributions to the state or society. WVDOH Traffic Division, Central Sign Shop coordinates, manufactures, delivers, and maintains records of the honorariums' information.

Honorariums can be named for sections of roadways or bridges.

Table 19. *Nuber of Honorariums Dedicated by Year*

Dedication Year	Number of Honorariums
2024 (to date)	66
2023	32
2022	88
2021	17
2020	78
2019	60

Dedicated since 1937

1,441
HONORARIUMS

WEST VIRGINIA LEGAL FUNCTIONAL CLASS

West Virginia has the following Functional Classifications:

Expressway - Connects metropolitan areas and facilitates significant intra-state and interstate travel.
Trunkline - Intrastate network to serve smaller cities.
Feeder - Serves small towns, industrial parks, and recreational areas not served by higher systems. Feeders collect traffic for higher classification systems.
State Local Service (SLS) - Localized arterial and spur roads which provide access and socio-economic benefits to abutting properties. Contains the following sub-classes:

- **Essential Arterial -** Provides primary access between small communities.
- **Collector -** Collects travel from lower classification systems and distributes it to higher classification systems.
- **Land Access -** Provides access to any land area or associated improvement, including HARPs and State Park and Forest Roads.

Table 20. *Miles per WV Legal Functional Class*

WV Legal Functional Class	Miles
Expressway	1,393
Trunkline	1,734
Feeder	3,425
Local Service	30,009

Note: Rounded to the nearest whole number. Source: LRS Publication 3/2024

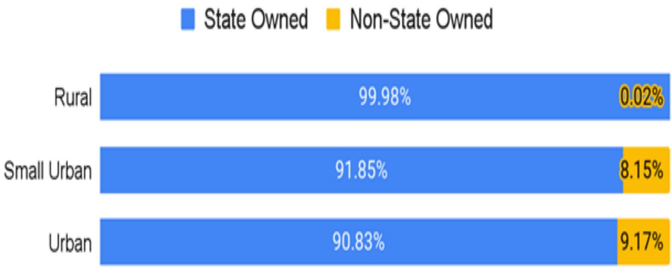
FEDERAL AID

The Federal Aid Highway Program provides financial assistance for the construction, operation, and maintenance of 3.9 Million miles of state highway systems across the nation, including the Interstate Highway System, primary highways and secondary local roads. The Federal Highway Administration (FHWA) works in cooperation with state and local governments to implement the Federal Aid Highway Program.

Table 21. *Federal Aid Mileage by Area*

Area	State Owned*	Non-State Owned	Total
Rural	10,083	2	10,085
Small Urban	878	78	956
Urban	2,011	203	2214
Total	**12,972**	**283**	**13,255**

**Not all state routes qualify for Federal Aid.*
Note: Numbers rounded to the nearest whole number.



APPENDIX A: ACRONYMS

Table A1. *Acronyms and Abbreviations*

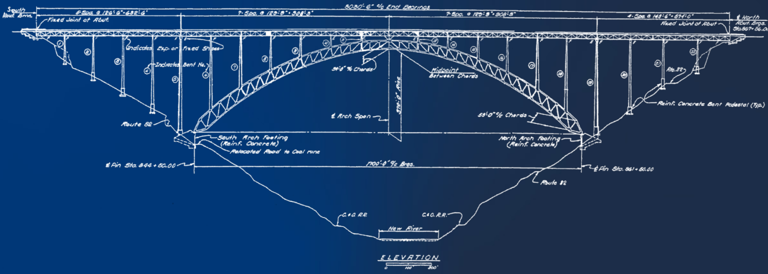
Acronym / Abbreviation	Definition
AADT	Annual Average Daily Traffic
AASHTO	American Association of State Highway Transportation Officials
AC	Asphalt-Concrete
ADHS	Appalachian Development Highway System
AMPO	Association of Metropolitan Planning Organizations
ARC	Appalachian Regional Commission
ARNOLD	All Road Network of Linear Referenced Data
ARS	Annual Roadway Statistics
BHJ-MPC	Brooke Hancock Jefferson Metropolitan Planning Commission
Bit.	Bituminous
CHART	Coordinated Highways Action Response Team
CRCP	Continuously Reinforced Concrete Pavement
DVMT	Daily Vehicle Miles of Travel
FANS	Federal-aid Non State
FAS	Federal-aid System
FAST	Fixing Americas Surface Transportation

Acronym / Abbreviation	Definition
FC or F_system	Functional Classification
FHWA	Federal Highway Administration
FRMPO	Fayette/Raleigh Metropolitan Planning Organization
FY	Fiscal Year (Federal FY is from Oct 1 to Sept 30; West Virginia's FY is July 1 to June 30.)
GARVEE	Grant Anticipation Revenue Vehicle (Bonds)
GIS	Geographical Information System
HARP	Home Access Road Program Routes
HEPMPO	Hagerstown/Eastern Panhandle Metropolitan Planning Organization
HPMS	Highway Performance Monitoring System
ID	Identification
JPCP	Jointed Plain Concrete Pavement
JRCP	Jointed Reinforced Concrete Pavement
KYOVA	Kentucky - Ohio - West Virginia Interstate Planning Commission
LRM	Linear Referencing Method
LRS	Linear Referencing System
MAP-21	Moving Ahead for Progress in the 21st Century Act

Acronym / Abbreviation	Definition
MMMPO	Morgantown Monongalia Metropolitan Planning Organization
MNS	Municipal Non-State
MPO	Metropolitan Planning Organization
NHFC	National Highway Functional System
NHS	National Highway System
OCI	Overall Condition Index
P.E.	Professional Engineer
PCC	Portland Cement Concrete
RIC	Regional Intergovernmental Council
RIL	Road Inventory Log
RPDC	Regional Planning & Development Councils
SLS	State Local Service
STRAHNET	Strategic Highway Network
US	United States
WV	West Virginia
WVDOH	West Virginia Division of Highways
WVDOT	West Virginia Department of Transportation
WWW	WWW Interstate Planning Commission

Credits: This book was created under the direction of the Chief Technology Officer, with contributions from:

Information Technology Division
Performance Management Division
Planning Division
Public Relations Division



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