



WVDOT Performance Connection

User Guide

June 2022





Contents

WVDOT Performance Connection Site	4
Introduction and Purpose	4
Using the WVDOT Performance Connection Site	5
Welcome Page / Main Page	5
Header	6
Icons for Interactive Dashboards	6
Search Bar	7
Footer	7
Tabs	7
Introduction to TPM	8
Dashboards	8
Download Data	10
Data Hub	13
Interactive Dashboards	16
Dashboard User Cases	32
User Case 1: A District 5 Engineer wants to have a closer look at bridges with Poor performance measures.	32
User Case 2: A RIC MPO planner wants to check the Safety federal measures within their MPO area.....	38
User Case 3: A District 2 engineer wants to check the pavement condition over a specific corridor.....	44
User Case 4: A KYOVA MPO planner wants to check the trend for reliability measure at MPO level and the reliability measure at a specific bridge.	49



Acronyms

AGOL	ArcGIS Online
CMAQ	Congestion Mitigation and Air Quality Improvement
FHWA	Federal Highway Administration
GIS	Geographic Information Systems
HPMS	Highway Performance Monitoring System
HSP	Highway Safety Plan
IRI	International Roughness Index
LOTTR	Level of Travel Time Reliability
LRTP	Long Range Transportation Plan
LM	Lane Miles
MAP-21	Moving Ahead for Progress in the 21st Century
MPO	Metropolitan Planning Organization
NBI	National Bridge Inventory
NHS	National Highway System
NHTSA	National Highway Traffic Safety Administration
PM	Performance Measure
TPM	Transportation Performance Management
TTTR	Truck Travel Time Reliability Index
USDOT	United States Department of Transportation
WVDOH	West Virginia Department of Highways
WVDOT	West Virginia Department of Transportation



WVDOT Performance Connection Site

Introduction and Purpose

WVDOT Performance Connection is a one-stop Transportation Performance Management (TPM) application to support investment and policy decisions to achieve national and state performance goals. The first version of this tool focuses on the four FHWA performance areas: safety, bridge condition, pavement condition, and travel time reliability and freight. The Performance Connection is an online system to track system performance consistent with the 2050 LRTP goals. It also, as shown in the below figure provides an interactive data system to track system performance, inform target setting, and supports WVDOT actions to review and develop investment strategies to address system deficiencies.

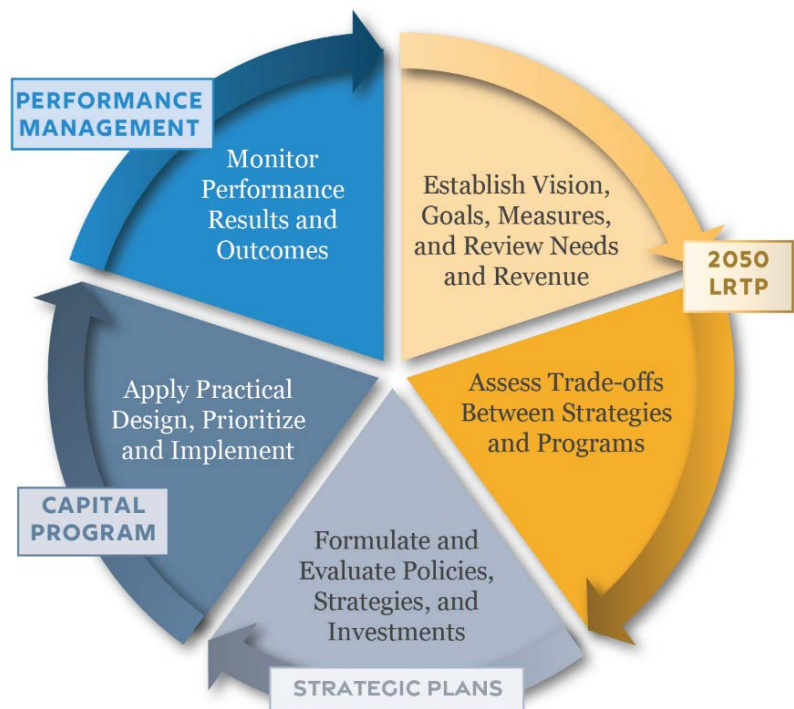
Access to performance measure trends and supporting data is a critical component of transportation performance management. As WVDOT's approach has matured since the start of the Federally required process in 2017, staff and planning partners have recognized the need for system to share information that will enable District and MPO level performance analysis.

As a result of this increased importance, and the connection of performance management to multiple other activities led by the Division of Highways (DOH), the Performance Management Division leads activities regarding measuring, monitoring, evaluating and reporting highway performance trends and characteristics, as well as developing

plans and strategic actions to address short- and long-term performance deficiencies. More information on the role of the Performance Management Division is available [here](#).

To access the site, the user can visit <https://performanceconnect-wvdot.hub.arcgis.com/>, or may also locate it by visiting the Performance Management Division website (provided above) and clicking on the corresponding link.

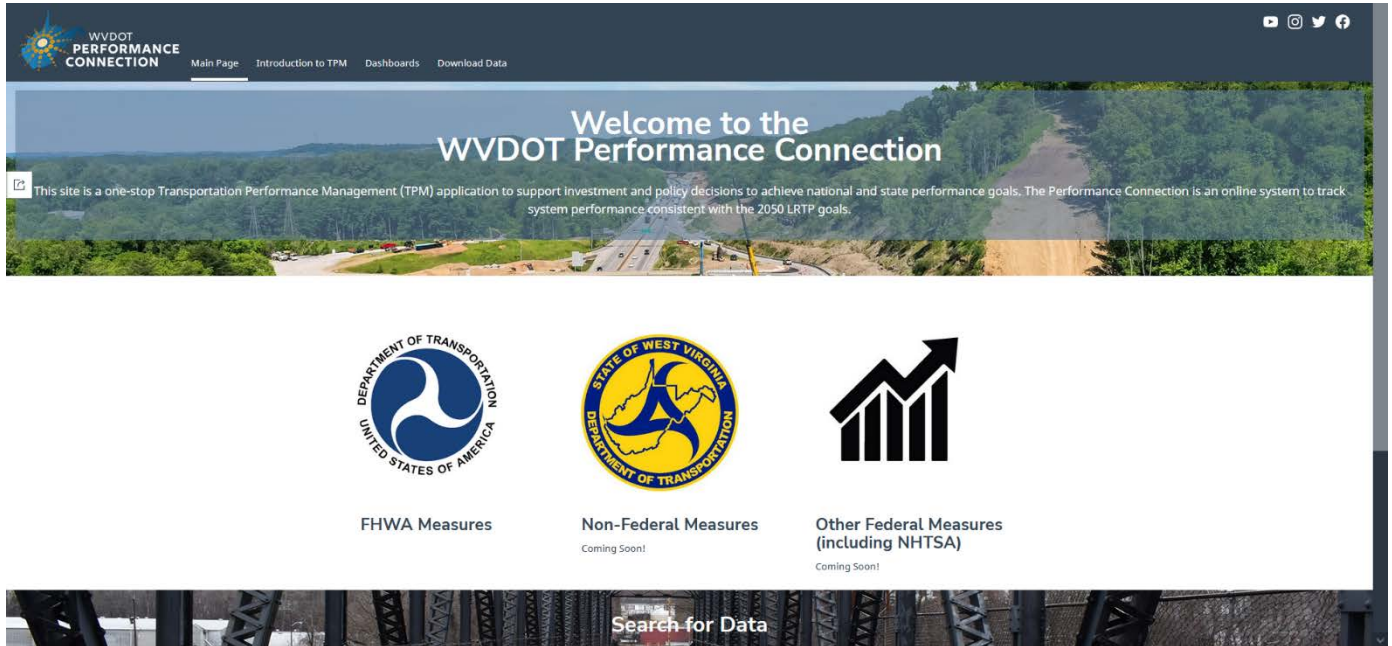
If you have questions regarding the performance measures, data, or functionality of the Performance Connection site, please contact us at: performance@wv.gov





Using the WVDOT Performance Connection Site

Welcome Page / Main Page



The Main Page of the WVDOT Performance Connection Site functions as a one-stop shop for various uses including:

- [Easy access and navigation to interactive performance measures dashboards](#)
- [Access data](#)
- [Querying and downloading specific data](#)
- [Educational context of the agency and FHWA requirements](#)
- [Contact information of key agency parties](#)
- [Connect and access WVDOT’s social media channels](#)

The main purpose is to provide the user an intuitive virtual solution to navigate through, understand, access key information pertaining to different performance measures WVDOT reports on. These range from the Federal Highway (FHWA) required performance measures, to Non-Federal measures, and other federal measures such as the National Highway Traffic Safety Administration (NHTSA) ones.

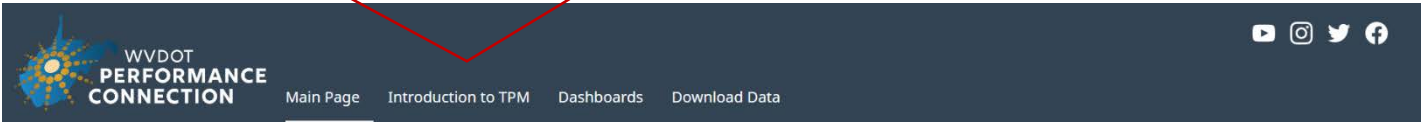
The *Main Page* is composed of four main tabs at the top (in the header), directly to the right of the “Performance Connection” Logo, which take the users to pages corresponding to the tabs’ titles (these are discussed further in section *Tabs*). In between the header and footer, the Main Page also contains three main sections as banners including an Introduction, access to interactive dashboards represented by different icons or seals, and a banner to search for data.



Header

The Header is a key component of the Main Page and overall structure of the Performance Connection Site. It allows the user to easily navigate between tabs, and to also access different WVDOT social media channels. The tabs allow for direct navigation to informational content on what TPM is, a page where all interactive dashboards can be found, and access to a download data page. More in-depth information on what each of these pages offers and how to navigate them can be found under section *Tabs*.

Home page header allows easy access to the user to navigate to general information regarding performance management, direct access to the four dashboards (safety, bridge, pavement reliability), and a page designed to download data.



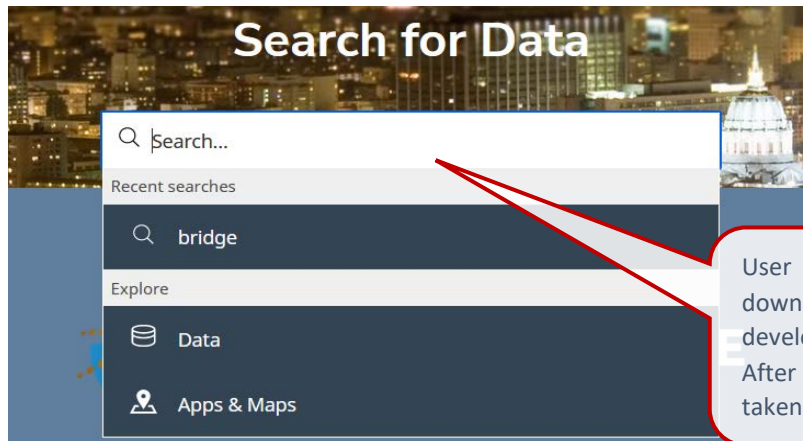
Icons for Interactive Dashboards



These three different clickable icons provide access to unique dashboards. This first version of the application will only include four FHWA performance measure (PM) dashboards, reason for the “Coming Soon!” text underneath the other icons. In the future, Performance Connection will allow users to click on these and access all corresponding dashboards.



Search Bar



User can scroll down and search for downloadable PM data, used in the development of the published dashboards. After clicking on a result, the user is then taken to the *Data Hub*.

Footer

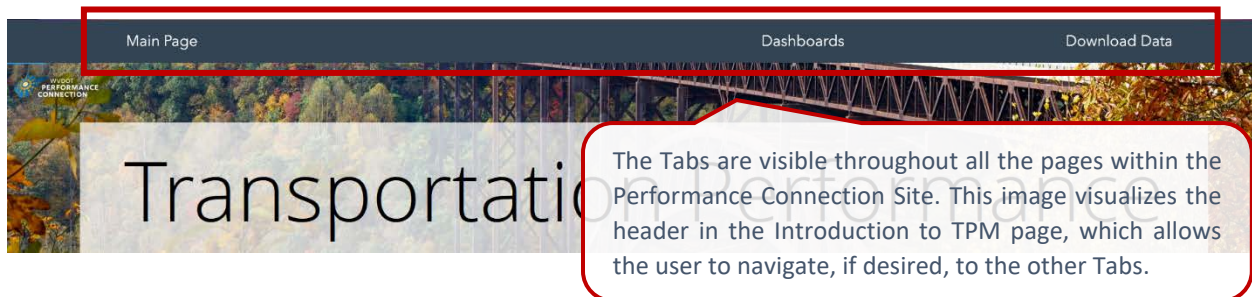
The Footer includes links to learn more about West Virginia DOT and the FHWA Transportation Performance Guidelines. Furthermore, it includes key contact information in case the user needs to contact someone pertaining to the Performance Connection Site (performance@wv.gov).

Tabs

The Header of the Performance Connection Site has four tabs that provide crucial content and navigation components. These tabs are:

- **Main Page**
- **Introduction to TPM**
- **Dashboards**
- **Download Data**

When the user clicks on any of them, they are taken to a page that has corresponding content to the title of the tab. And, while on the new page, these four tabs are still visible on the header in case they want to navigate to another one. For instance, if the user clicks on the Introduction to TPM Tab directly from the Main Page, and then they want to go to the Download Data Tab, they may do so directly from the Introduction to TPM Tab.



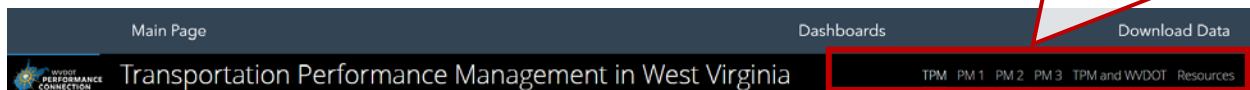
The Tabs are visible throughout all the pages within the Performance Connection Site. This image visualizes the header in the Introduction to TPM page, which allows the user to navigate, if desired, to the other Tabs.



Introduction to TPM

The Introduction to TPM Tab is an informational and educational page precisely on what its title suggests, what is and introduction into *transportation performance* management. The page is hosted and visualized as an ArcGIS Online (AGOL) accordion themed StoryMap, where the user can scroll down to encounter and explore new educational information. As such, the user can scroll down to access the six main sections, or to jump directly to one, they may also click on the heading- links for them which are listed horizontally in the upper-right corner of the screen.

The user can scroll down through the Introduction to TPM page or click on any of the sections' headers listed in this box to navigate through the page's content.



These six main sections that provide educational content on transportation performance management, particularly in connection to WVDOT are:

- **TPM:** This section covers what is TPM, its origins and federal requirements, the national goals, and the three performance measures each State DOT should report on.
- **PM 1:** Performance Measure 1 covers information pertaining to highway safety. This section covers what WVDOT reports and measures and provides a status on how it is performing in comparison with federal trends.
- **PM 2:** Performance Measure 2 deals with pavement and bridge conditions. Thus, this section encompasses what WVDOT measures to report on these conditions and how it is performing in each category in comparison with federal trends.
- **PM 3:** Performance Measure 3 communicates those pertaining to system performance. This section explains how WVDOT assesses system performance by covering what it measures and how it is performing when compared to federal trends and targets.
- **TPM and WVDOT:** This section covers Why TPM is important? How WVDOT is Addressing the Federal Requirements, How is WVDOT Sustaining and Improving the TPM Process? What Measures and Features are Included in the Performance Dashboards?
- **Resources:** The last section provides the user with links to six resources where they can find more information. At the end, it provides the contact information for Gehan Elsayed, Strategic Performance Management Manger at the West Virginia Division of Highways.

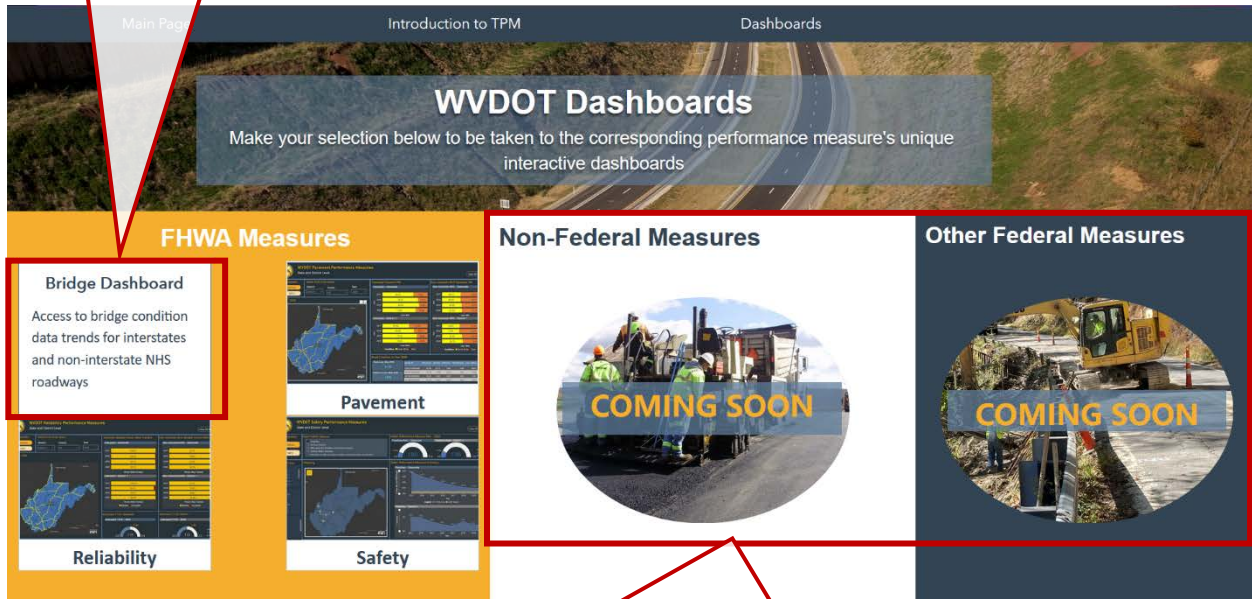
Dashboards

The Dashboards Tab take the user to a page where they can easily access diverse dashboards each symbolized by their dashboard screenshot and located under either of the three categories, FHWA Measures, Non-Federal Measures, or Other Federal Measures. Each icon functions as a button that when clicked, opens a new page and takes the user to the corresponding dashboards. As new dashboards become available, they will be shared in this page within their corresponding category.



Access to three categories: Federal Measures, State, and Other Non-Federal. Access to dashboards within each category. User can click on corresponding icon of the dashboard they want to see.

As the user hovers over any of the clickable dashboard icons, they can get a brief description of what they will be accessing.



Non-Federal Measures and Other Federal Measures interactive dashboards will be available and accessible on this page. The navigation process to access them and learn about their content will be the same as the ones for the FHWA Measures.



Download Data

The Download Data Tab functions as a data portal where the user can choose how to access and download data. To access the 2020 data used in the FHWA Performance Measure Dashboards, the user can use the “Query and Export Performance Data” tool which can be accessed by clicking on the map icon in the yellow section of the page. In order to find more data sources, including other years, and in the future data for the other performance measures, it is recommended for the user to access the *Data Hub*, which one can navigate to by clicking on folder-and-magnifying-glass icon in the blue section. More information on how to use the Data Hub is specified in its own section below.

The screenshot shows the WVDOT Data Portal interface. At the top, there are navigation links for 'Main Page', 'Introduction to TPM', and 'Dashboards'. The main content area features a background image of a highway bridge over a river. A semi-transparent text box reads: 'WVDOT Data Portal. This open portal provides access to the WVDOT Data used in the Performance Connection website. Data in various formats, including geospatial layers, are available to view and download. The user may also query data by geography and download it by using the Query and Export site (below in yellow).'

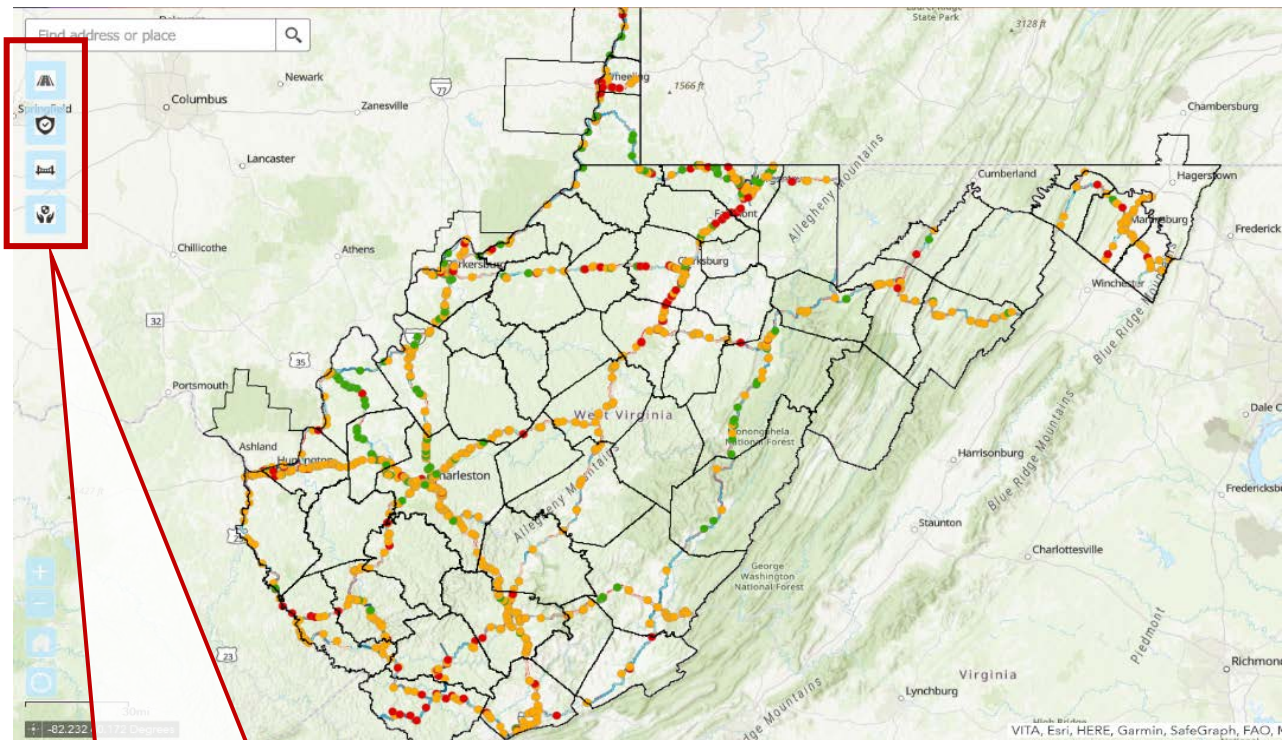
Below this, there are two main sections:

- Query and Export Performance Data (Yellow Section):** Contains a map icon and the text: 'Use this interactive map to export data based on geography and performance measure'. A callout box below explains: 'By clicking on the map icon, the user can access the tool to query and export data.'
- WVDOT Data Hub (Blue Section):** Contains a folder-and-magnifying-glass icon and the text: 'Use this to be taken to the data hub'. A callout box below explains: 'By clicking on the folder-and-magnifying-glass icon, the user can access the Data Hub.'



Query and Export Performance Data

This tool gives the user the flexibility to query the specific data they need by performance measure and geography, by either a specific MPO or District. Upon accessing the tool, the user will be taken to an interactive map that visualizes the highway network and bridges. On the upper left corner there are four icons, each visualizing a performance measure.



The four icons on the top left symbolize different performance measures. From top to bottom these are:

1. Pavement
2. Reliability
3. Bridge
4. Safety

Upon selecting the performance measure, the user is then prompted to select on whether they want to query and download the data by MPO or District. A drop-down menu will then highlight the options for either MPOs or Districts so that the user can make a specific selection and download 2020 data by performance measure, MPO or District, and the specific name of the geography selected. When hitting “apply” once all selections are made, the tool will visualize within the map a snapshot of the selections made, then by clicking on “Results” within the selections pane, and the icon of three dots “...”, one can opt on the format of the data to be downloaded. A specific example is with the selection of bridge data for MPO KYOVA is shown below.



Bridge Data

Tasks Results

← Query and Download Bridge Data by MPO

Query criteria

Select MPO Name

KYOVA

MPO_ACRONY = 'KYOVA'

Result layer name

Query and Download Bridge Data by MPO _Query re:

Apply

Upon making the selection of Bridge data by MPO, the user is prompted to select the desired MPO. In this example we are selecting "KYOVA". After clicking on apply, the tool will visualize within the map a snapshot of the selections made

Bridge Data

Tasks Results

Query and Download Bridge Data by MPO _Query res ...

Displayed features: 103/103

- COND
- RDWY_SYSTEM
- y
- x
- ADT_029
- MPO_ACRONY
- Year
- Deck_code
- Deck_T
- Superstructure

- Zoom to
- Pan to
- Flash
- Export to CSV file
- Export to feature collection
- Export to GeoJSON
- Statistics...
- Save to My Content
- Remove this result

Once the selection is approved and finalized, the user should toggle on "results" and the three dots icon to use some of the GIS tools available and/or to select the format in which they want to download the queried data.



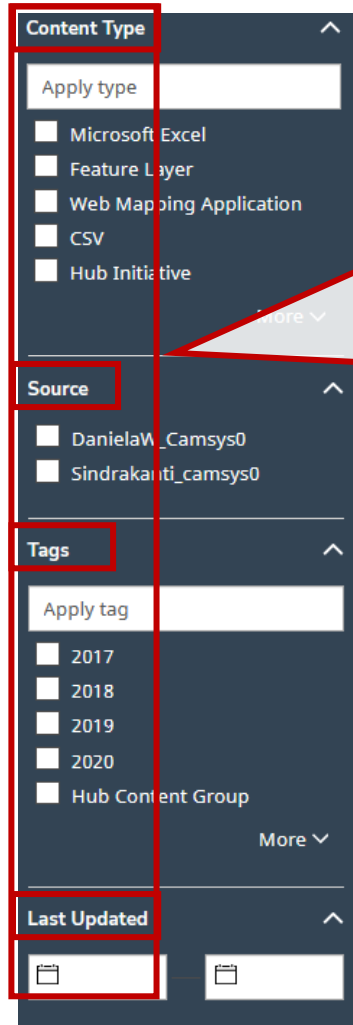
Data Hub

The Data Hub is the one-stop-shop to find all data used for the development of all dashboards. To access this page the user can do so either via the search bar (as shown in the Main Page section) or through the Download Data tab under the blue section. Once on the Data Hub, the user can search for data by keywords, such as “pavement”, query them by tags which could be the year of the data, select the format of data, or simply go through everything available. Furthermore, the user can also sort the data by date, title, or relevance. If the user needs to head back or navigate to any of the other components of Performance Connection, they may do so through the tabs which will take them to their corresponding site. Furthermore, the user may sort out their results by selecting on the type of file/data they are looking for, i.e.: are they looking for all data or a specific interactive map?

The user may specify what they are looking for by sorting out results through these options on the top. However, it is important to note that if “Apps and Maps” are selected, this option will prompt the user to the applications or maps utilized to develop Performance Connection, but it will not provide them with the raw data used for the creation of the dashboards. To specifically look for data it is advised to sort out by “All” or “Data”.

The screenshot displays the Data Hub interface with the following elements:

- Navigation Tabs:** Main Page, Introduction to TPM, Dashboards, Download Data.
- Filter Tabs:** All, Data, Documents, Apps & Maps.
- Filters Section:**
 - Content Type:** Apply type (Microsoft Excel, Feature Layer, Web Mapping Application, CSV, Hub Initiative).
 - Sharing:** Sharing icon.
 - Source:** Source dropdown.
 - Tags:** Apply tag (2017, 2018, 2019, 2020).
- Results:** 1 - 20 of 30 results. Sort by Relevance.
- Data Results:**
 - WV Pavement 2020:** DanielaW_Camsys0, Type: Feature Layer, Rows: 26,772, Last Updated: November 15, 2021.
 - WV_Bridge_2020:** DanielaW_Camsys0, Type: Feature Service, Last Updated: December 3, 2021.
 - WV Reliability 2020:** DanielaW_Camsys0, Type: Feature Layer, Rows: 2,174, Last Updated: November 15, 2021.



The user may opt to filter their selections by:

- **Content Type:** This selection includes data format, and type of data available such as a feature layer, an interactive mapping application, or an excel table.
- **Source:** This covers the author or creator of the data. This feature is useful if/when specific offices within a department are responsible for certain data, thus making it easier for the user to look for data.
- **Tags:** The tags option for filtering data allows the user to select keywords, or tags, which describe the data. For example, to look for bridge data the user may type in Bridge or look through more available tags by clicking on "More" to expand the list and then select "Bridge".
- **Last Update:** This reflects on the date or date range the data was uploaded or updated.



Once the user has filtered out their selections, they can click on any of the linked results to access the data information page. The data information page allows the user to filter out any specific attributes if needed, or they can opt to download the data as is.

This data information page highlights the download options for "WV Pavement 2020", pavement data for the year 2020. When clicking on the download cloud icon, highlighted in dark blue, the user can select the data format to download. Furthermore, as explained earlier, if the user does not want a specific attribute, they may filter those out from the results by clicking on the "funnel" icon directly above the download cloud one.

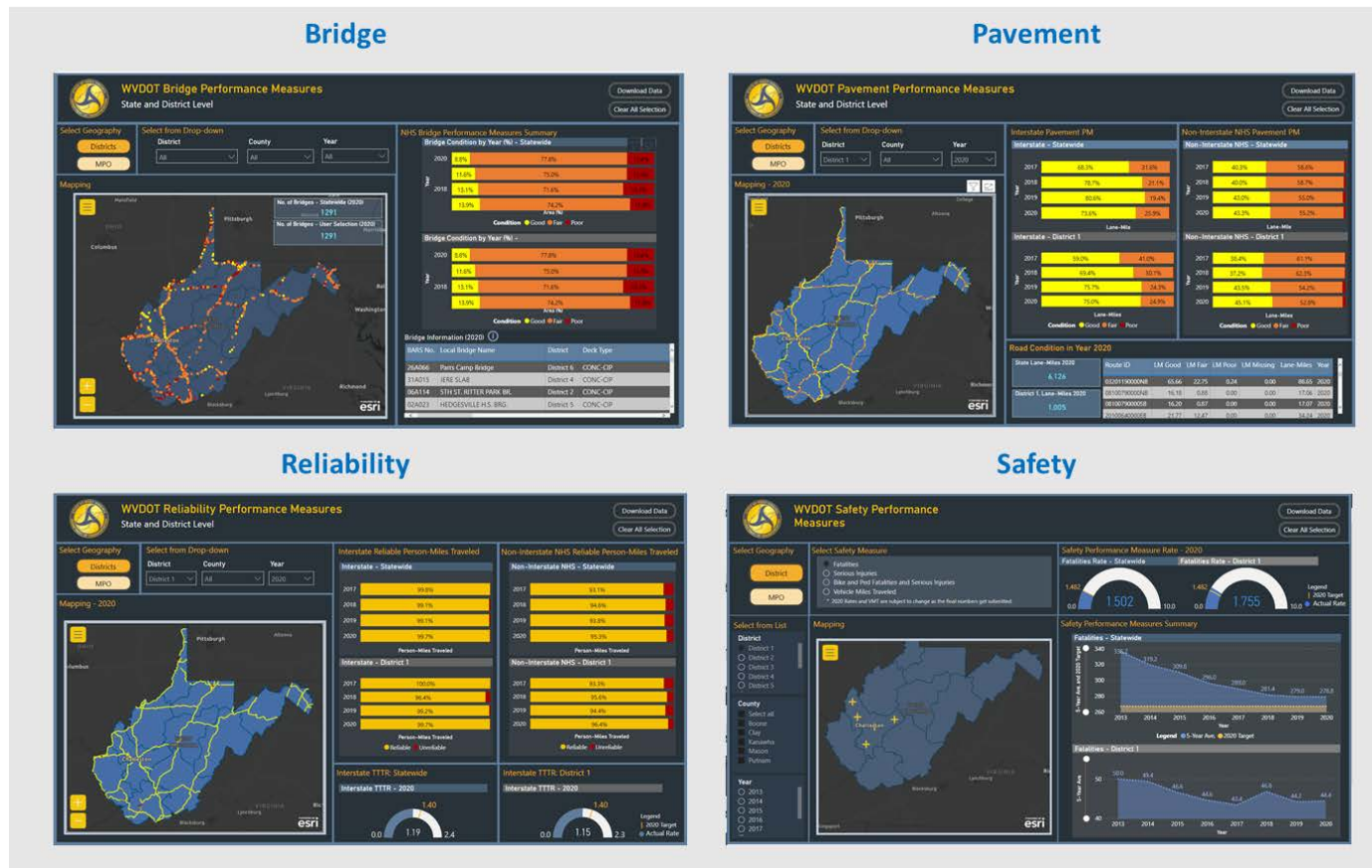
The screenshot shows a dark-themed interface for downloading data. At the top, it says "Download Options" and "WV Pavement 2020". To the right, a white box indicates "26,772 records". Below this, there's a "Records: 26,772" label and a "Toggle Filters" switch. The main content is divided into two sections: "CSV" and "KML". Each section shows the file creation date and time ("Dec 16, 2021, 12:39") and the file size ("1.1 MB" for CSV, "5.3 MB" for KML). Below each section is a "Download" button. To the right of the download options is a vertical toolbar with icons for edit, info, funnel, download cloud, star, and share. The background shows a map of West Virginia with various locations labeled.



Interactive Dashboards

This March 2022 version of the application consists of four interactive dashboards with four years of annualized trend data:

- Safety measures
- Bridge measures
- Pavement measures
- Reliability and freight measures





Across all performance dashboards, the data is segmented based on geography multiple geography. These options are common across all performance dashboards:

- The first option allows users to choose between "District" and "MPO". When you are on district tab, you can navigate through all ten districts. When you are on the MPO tab, you can navigate through the MPOs.
- The next option allows to dive even narrower and choose a specific county.

Geography Selection Panel –
Default is District.
By selecting MPO,
user will be taken
to MPO selections

Selection Geography and Year –
Filter selection
(District or MPO,
County, and Year)

WVDOT Bridge Performance Measures
State and District Level

Select Geography: Districts (selected), MPO

Select from Drop-down: District: All, County: All, Year: All

NHS Bridge Performance Measures Summary

Bridge Condition by Year (%) - Statewide

Year	Good (%)	Fair (%)	Poor (%)
2017	13.9%	74.2%	11.9%
2018	13.1%	71.6%	15.3%
2019	11.6%	75.0%	13.5%
2020	8.8%	77.8%	13.4%

Bridge Information (2020)

BARS No.	Local Bridge Name	District	Deck Type
26A066	Parrs Camp Bridge	District 6	CONC-CIP
31A015	JERE SLAB	District 4	CONC-CIP
06A114	5TH ST. RITTER PARK BR.	District 2	CONC-CIP
02A023	HEDGESVILLE H.S. BRG.	District 5	CONC-CIP



- All performance measures have map interface and due to data and mapping limitations the features and level of interactivity might differ across dashboards. Note, only the bridge dashboard enables direct interaction between the table and the map (e.g., when an item is selected in the table in the bottom right corner, the map will zoom to the specific asset location).

Map Interface and Visualization:
Provides map-based selection and search option.

WVDOT Bridge Performance Measures
State and District Level

Select Geography: Districts, MPO

Select from Drop-down: District (All), County (All), Year (All)

Mapping

No. of Bridges - Statewide (2020): 5173
No. of Bridges - User Selection (2020): 5173

NHS Bridge Performance Measures Summary

Bridge Condition by Year (%) - Statewide

Year	Good (%)	Fair (%)	Poor (%)
2017	13.9%	74.2%	11.9%
2018	13.1%	71.6%	15.3%
2019	11.6%	75.0%	13.5%
2020	8.8%	77.8%	13.4%

Condition: Good (Yellow), Fair (Orange), Poor (Red)

Bridge Information (2020)

BARS No.	Local Bridge Name	District	Deck Type
26A066	Parrs Camp Bridge	District 6	CONC-CIP
31A015	JERE SLAB	District 4	CONC-CIP
06A114	5TH ST. RITTER PARK BR.	District 2	CONC-CIP
02A023	HEDGESVILLE H.S. BRG.	District 5	CONC-CIP



- The search tool within mapping becomes available after clicking on three-line icon (Mapping Tools) on top left corner of the map. The search tool allows users to locate the assets with their location without knowing the asset ID.

The screenshot displays a mapping application interface. At the top, there are two sections: "Select Geography" with buttons for "Districts" and "MPO", and "Select from Drop-down" with dropdown menus for "District" (set to "All"), "County" (set to "All"), and "Year" (set to "All"). Below this is the "Mapping" section, which includes a vertical toolbar on the left with icons for home, search, layers, settings, and zoom. A search box is open over the map, containing the text "Find address or place". The map shows West Virginia with numerous bridge assets represented by yellow and orange dots. A data popup is visible on the right side of the map, showing the number of bridges for different locations in 2020.

No. of Bridges - Statewide (2020)	
Altoona	1291

No. of Bridges - User Selection (2020)	
Harrisburg	1291

Mapping Tools:
Provide tools available in the map such as search tool.

Search Tool:
Provide search within map to find specific asset based on approximate/exact location.



- The "Clear All Selection" option on top right corner allows the user to go back to the default.

WVDOT Bridge Performance Measures
State and District Level

Download Data
Clear All Selection

Select Geography: Districts, MPO
Select from Drop-down: District (All), County (All), Year (All)

Mapping: No. of Bridges - Statewide (2020) 5173, No. of Bridges - User Selection (2020) 5173

NHS Bridge Performance Measures Summary

Bridge Condition by Year (%) - Statewide

Year	Good (%)	Fair (%)	Poor (%)
2017	13.9%	74.2%	11.9%
2018	13.1%	71.6%	15.3%
2019	11.6%	75.0%	13.5%
2020	8.8%	77.8%	13.4%

Bridge Condition by Year (%) - User Selection

Year	Good (%)	Fair (%)	Poor (%)
2017	13.9%	74.2%	11.9%
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2019	11.6%	75.0%	13.5%
2020	8.8%	77.8%	13.4%

Bridge Information (2020)

BARS No.	Local Bridge Name	District	Deck Type
26A066	Parrs Camp Bridge	District 6	CONC-CIP
31A015	JERE SLAB	District 4	CONC-CIP
06A114	5TH ST. RITTER PARK BR.	District 2	CONC-CIP
02A023	HEDGESVILLE H.S. BRG.	District 5	CONC-CIP

Clear All Selection: A quick option to go back to the default selection.



- The “Download Data” option on top right corner allows the user to go to the Data Portal (within the Performance Connection ArcGIS site) which is the one-stop-shop to find all data used for the development of all dashboards.

WVDOT Bridge Performance Measures
State and District Level

Select Geography: Districts, MPO
Select from Drop-down: District (All), County (All), Year (All)

NHS Bridge Performance Measures Summary

Bridge Condition by Year (%) - Statewide

Year	Good (%)	Fair (%)	Poor (%)
2017	13.9%	74.2%	11.9%
2018	13.1%	71.6%	15.3%
2019	11.6%	75.0%	13.5%
2020	8.8%	77.8%	13.4%

Bridge Condition by Year (%) - [User Selection]

Year	Good (%)	Fair (%)	Poor (%)
2017	13.9%	74.2%	11.9%
2018	13.1%	71.6%	15.3%
2019	11.6%	75.0%	13.5%
2020	8.8%	77.8%	13.4%

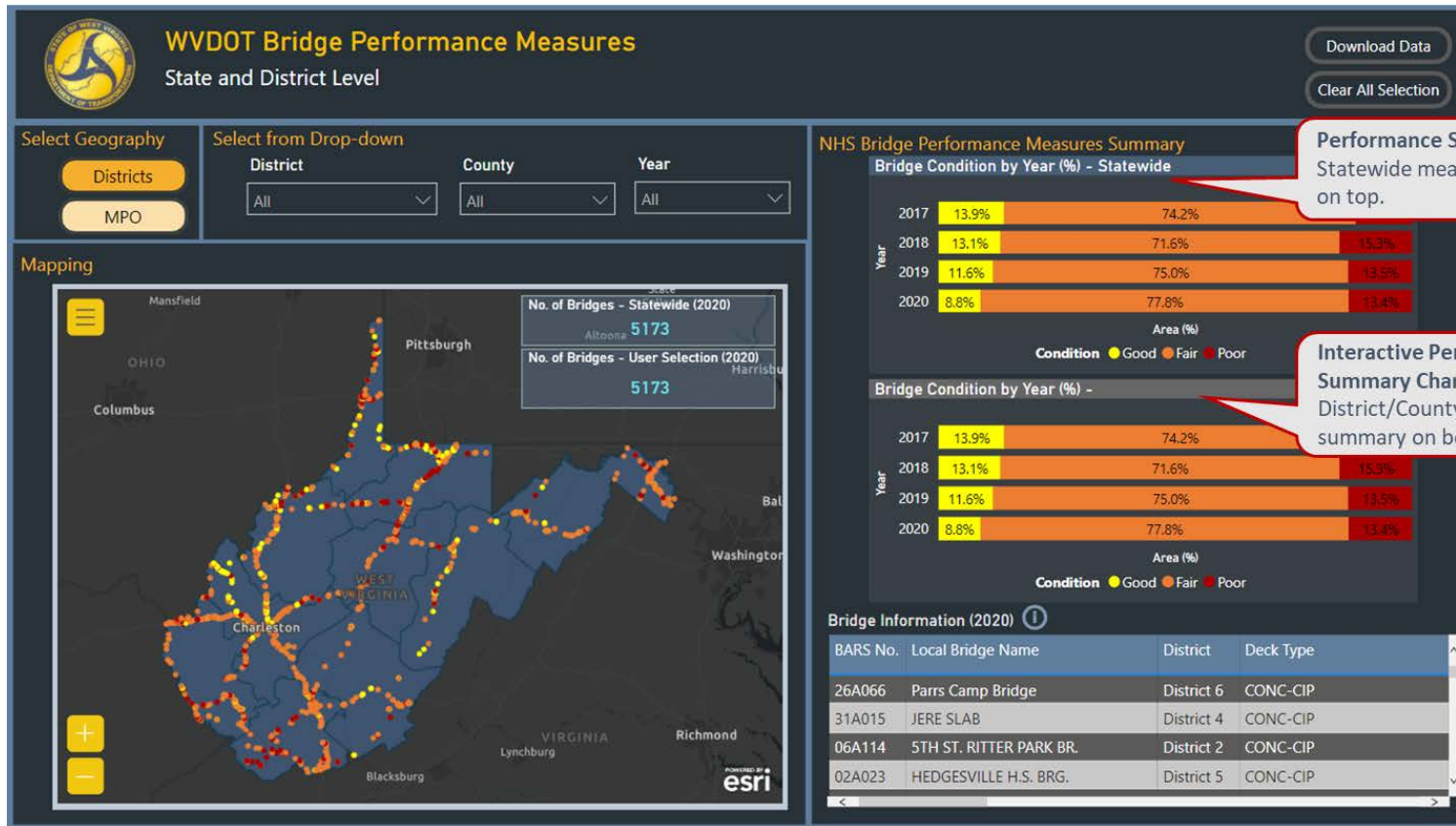
Bridge Information (2020)

BARS No.	Local Bridge Name	District	Deck Type
26A066	Parrs Camp Bridge	District 6	CONC-CIP
31A015	JERE SLAB	District 4	CONC-CIP
06A114	5TH ST. RITTER PARK BR.	District 2	CONC-CIP
02A023	HEDGESVILLE H.S. BRG.	District 5	CONC-CIP

Download Data:
A quick option to download all data used for the development of all dashboards..



- The charts on right illustrate the performance summary. The top chart(s) shows statewide measures and does not change based on geographic selections to provide a reference for comparison. The bottom chart(s) are interactive, and change based on user geographic selections (District/County/MPO).



Performance Summary Charts: Statewide measure summary on top.

Interactive Performance Summary Charts: District/County/MPO measure summary on bottom.



- The Focus mode at top corner of each chart allows the user to expand the chart to full page for better visibility of percentages.



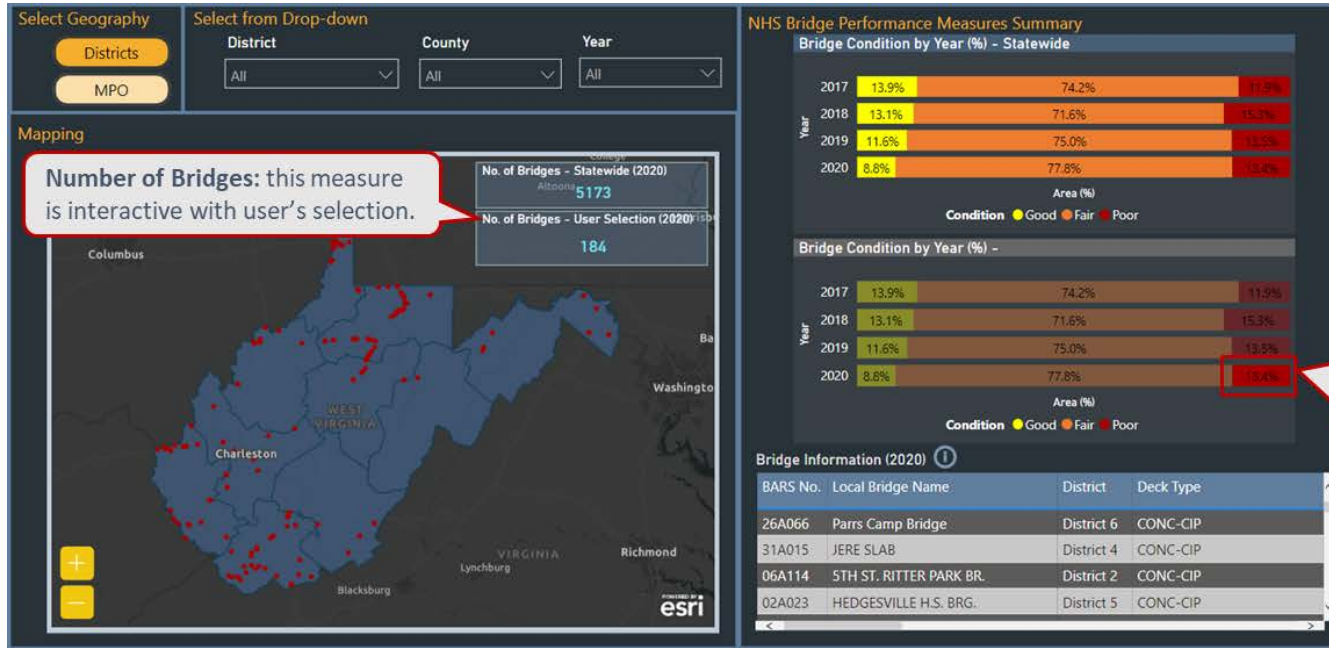
Focus mode: each chart has Focus mode that allows to expand the graph to full page.



Bridge Performance Measure

Bridge measures focus on National Bridge Inventory (NBI) bridges on the National Highway System and represent the percent of bridge deck area in good or poor condition.

Viewing assets based on performance category is available through chart selection.





Viewing individual asset performance is available through the mapping option as well as the Bridge Information table at the bottom right corner of the page.

Select Geography

Districts: Districts MPO

Select from Drop-down

District: All | County: All | Year: All

Mapping

1. Search Tool:
Use this tool to find specific asset based on approximate location.

2. Interactive Map:
By selecting the bridge on the map, user could see BARS # (or structure ID), condition of each bridge, location, and more details provided through map.

NHS Bridge Performance Measures Summary

Bridge Condition by Year (%) - Statewide

Year	Good (%)	Fair (%)	Poor (%)
2017	13.9%	74.2%	11.9%
2018	13.1%	71.6%	15.3%
2019	11.6%	75.0%	13.5%
2020	8.8%	77.8%	13.4%

Area (%)
Condition: ● Good ● Fair ● Poor

Bridge Condition by Year (%) - [District]

Year	Good (%)	Fair (%)	Poor (%)
2017	100.0%	0.0%	0.0%
2018	100.0%	0.0%	0.0%
2019	100.0%	0.0%	0.0%
2020	100.0%	0.0%	0.0%

Area (%)
Condition: ● Good ● Fair ● Poor

Bridge Information (2020)

BARS No.	Local Bridge Name	District	Deck Type
20A397	EUGENE A. CARTER MEMORIAL BRIDGE	District 1	CONC-CIP



Area (%)
Focus mode

Condition
● Good
 ● Fair
 ● Poor

Bridge Information (2020) ⓘ

BARS No.	Local Bridge Name	District	Deck Type
26A066	Parrs Camp Bridge	District 6	CONC-CIP
31A015	JERE SLAB	District 4	CONC-CIP
06A114	5TH ST. RITTER PARK BR.	District 2	CONC-CIP
02A023	HEDGESVILLE H.S. BRG.	District 5	CONC-CIP

< Back to report
BRIDGE INFORMATION (2020)

BARS No.	Local Bridge Name	District	Deck Type	Deck Condition	Substructure Condition	Superstructure Condition	Culverts	Under Bridge
26A066	Parrs Camp Bridge	District 6	CONC-CIP	Poor	Fair	Poor	N	5 - Waterway
31A015	JERE SLAB	District 4	CONC-CIP	Fair	Fair	Poor	N	5 - Waterway
06A114	5TH ST. RITTER PARK BR.	District 2	CONC-CIP	Fair	Poor	Poor	N	5 - Waterway
02A023	HEDGESVILLE H.S. BRG.	District 5	CONC-CIP	Poor	Fair	Poor	N	5 - Waterway
16A064	WEST WARDENSVILLE	District 5	CONC-CIP	Fair	Fair	Fair	N	5 - Waterway
31A001	CAMP RUN SLAB	District 4	CONC-CIP	Not Applicable	Good	Satisfactory	N	5 - Waterway
31A004	BULA SLAB	District 4	CONC-CIP	Poor	Fair	Poor	N	5 - Waterway
32A064	INDIAN CREEK BRIDGE	District 9	CONC-CIP	Satisfactory	Poor	Satisfactory	N	5 - Waterway
20A146	PATRICK STREET BRIDGE	District 1	CONC-CIP	Satisfactory	Satisfactory	Poor	N	6 - Highway - Wa
32A060	JONES DIAMOND BRIDGE	District 9	CONC-CIP	Fair	Fair	Fair	N	5 - Waterway
32A065	INDIAN CREEK BRIDGE	District 9	CONC-CIP	Fair	Fair	Fair	N	5 - Waterway
24A132	BOTTOM CREEK SLAB	District 10	CONC-CIP	Fair	Fair	Fair	N	5 - Waterway
24A131	KIMBALL SLAB	District 10	CONC-CIP	Poor	Fair	Poor	N	5 - Waterway
52A102	Church Fork Bridge	District 6	CONC-CIP	Poor	Fair	Poor	N	5 - Waterway
31A007	EAST BLACKSVILLE TRUSS	District 4	CONC-CIP	Satisfactory	Fair	Fair	N	5 - Waterway
54A037	FIFTH STREET BRIDGE (SSTT)	District 3	CONC-CIP	Good	Fair	Poor	N	8 - Highway - Wa
24A257	COALWOOD SLAB	District 10	CONC-CIP	Poor	Fair	Poor	N	5 - Waterway
55A081	HANOVER SLAB	District 10	CONC-CIP	Serious	Serious	Serious	N	5 - Waterway
24A138	MAYBEURY BRIDGE	District 10	CONC-CIP	Fair	Satisfactory	Fair	N	5 - Waterway
55A034	Airman First Class Christopher Burns Lester Memorial Bridge	District 10	CONC-CIP	Fair	Fair	Good	N	5 - Waterway
33A067	Hancock Bridge	District 5	CONC-CIP	Satisfactory	Satisfactory	Satisfactory	N	7 - Railway - Wa
12A067	RT 93 SCHERR	District 5	CONC-CIP	Poor	Poor	Poor	N	5 - Waterway
20A116	LETTERPAGE BRIDGE	District 1	CONC-CIP	Serious	Serious	Serious	N	5 - Waterway

Focus mode: This option allows to expand the Bridge Information table to full page and navigate based on BARS Number (or Structure ID).



Pavement Performance Measure

Pavement measures cover the National Highway System (including Interstates and other designated U.S. routes) and represent the percent of lane miles of pavement in good or poor condition.

Viewing individual asset/road segment performance is available through the mapping option.

1. Search Tool: Use this tool to find specific asset based on approximate location.

2. Interactive Map: By selecting the road segment on the map, user could see condition of the segment, location, and more details provided through map.

3. Segment Information: Click on this box to view segment level information.

Year	Good	Poor
2020	73.6%	25.9%
2018	80.6%	19.4%
2017	78.7%	21.1%
2016	68.3%	31.6%

Year	Good	Poor
2020	43.3%	55.2%
2018	43.0%	55.0%
2017	40.0%	58.7%
2016	40.3%	58.6%

Field	Value
MPO_NAME	RIC (Charleston)
MPO_ACRONY	RIC
CITY	South Charleston
NHS	1
OverallPL	Poor
LMGood	0.00
LMFair	0.00
LMPoor	0.40



The Road Condition section in bottom right corner of this page allows to view performance based on Route ID (aggregate all road segments with the same Route ID to provide more meaningful summary table).

Condition ● Good ● Fair ● Poor

Condition ● Good ● Fair ● Poor

Focus mode

Road Condition in Year 2020

State Lane-Miles 2020	Route ID	LM Good	LM Fair	LM Poor	LM Missing	Lane-Miles	Year
6,126	03201190000NB	65.66	22.75	0.00	0.00	88.65	2020
District 1, Lane-Miles 2020 1,005	08100790000NB	16.18	0.88	0.00	0.00	17.06	2020
	08100790000SB	16.20	0.87	0.00	0.00	17.07	2020
	20100640000EB	21.77	12.47	0.00	0.00	34.24	2020

Focus mode: This option allows to expand the Road Condition table to full page and navigate based on Route ID.

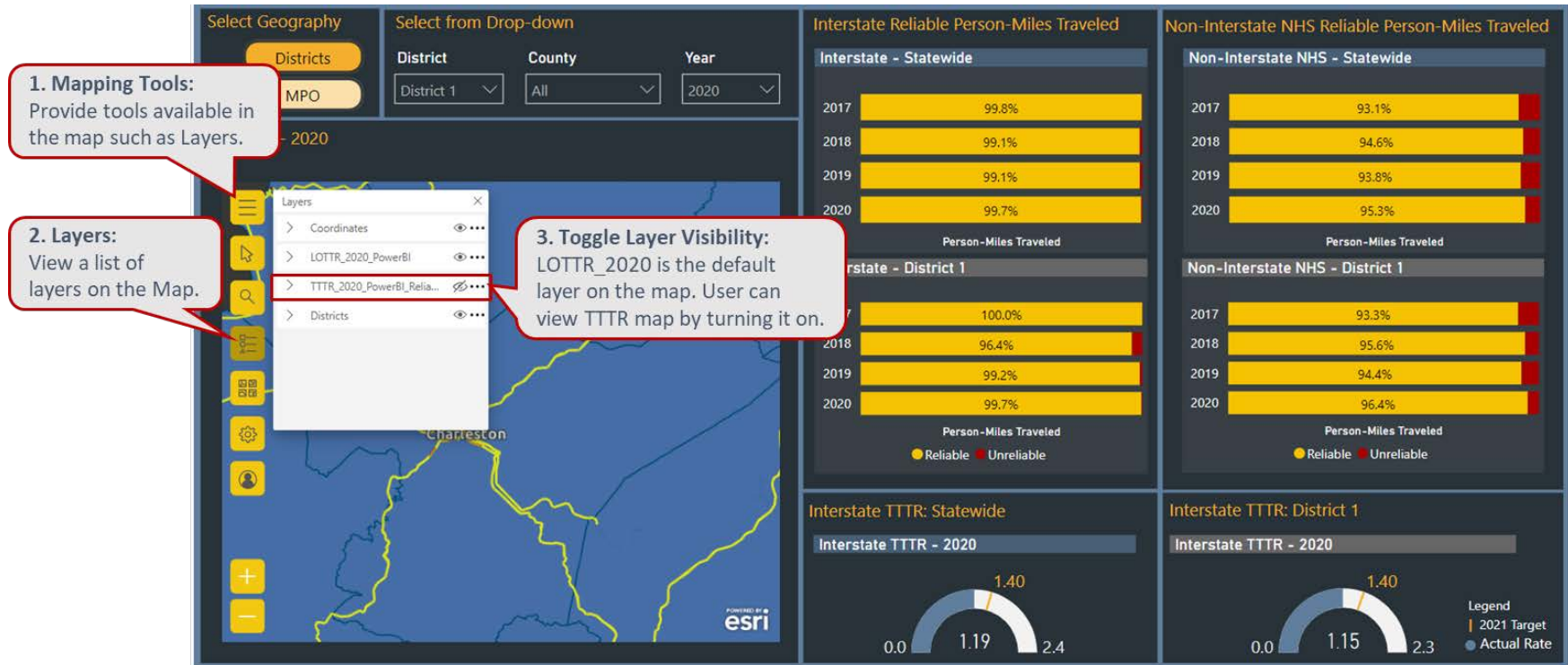
< Back to report

Route ID	LM Good	LM Fair	LM Poor	LM Missing	Lane-Miles	Year
03201190000NB	65.66	22.75	0.00	0.00	88.65	2020
08100790000NB	16.18	0.88	0.00	0.00	17.06	2020
08100790000SB	16.20	0.87	0.00	0.00	17.07	2020
20100640000EB	21.77	12.47	0.00	0.00	34.24	2020
20100640000WB	19.85	14.59	0.00	0.00	34.44	2020
20100640006EB	0.49	0.00	0.00	0.00	0.49	2020
20100770000NB	19.60	24.46	0.00	0.00	44.05	2020
20100770000SB	27.68	17.73	0.00	0.00	45.41	2020



Reliability Performance Measure

Roadway reliability is calculated using the Level of Travel Time Reliability (LOTTR), defined as the ratio of the 80th percentile travel time compared to the 50th percentile travel time. Conditions are considered unreliable when the LOTTR for an hour is above 1.5 (in other words, 20 percent of the time, the trip takes 50 percent longer than the average trip). Person miles traveled on reliable segments are compared to person miles on unreliable segments to determine the percent of reliable person miles traveled.





Viewing individual asset/road segment performance is available through the mapping option similar to Pavement performance dashboard.

1. Search Tool:
Use this tool to find specific asset based on approximate location.

2. Interactive Map:
By selecting the road segment on the map, user could see Reliability measures of the segment, location, and more details provided through map.

3. Segment Information:
Click on this box to view segment level information.

RoadName	LEE ST E
County	KANAWHA
ThruLanes	2
Directiona	1
DIR_AADT	6,714
TTTR	2.88
AnnualPers	595,743.29
MAXLOTTR	1.53
District	1

Year	Reliability
2017	99.8%
2018	99.1%
2019	99.1%
2020	99.7%

Year	Reliability
2017	93.1%

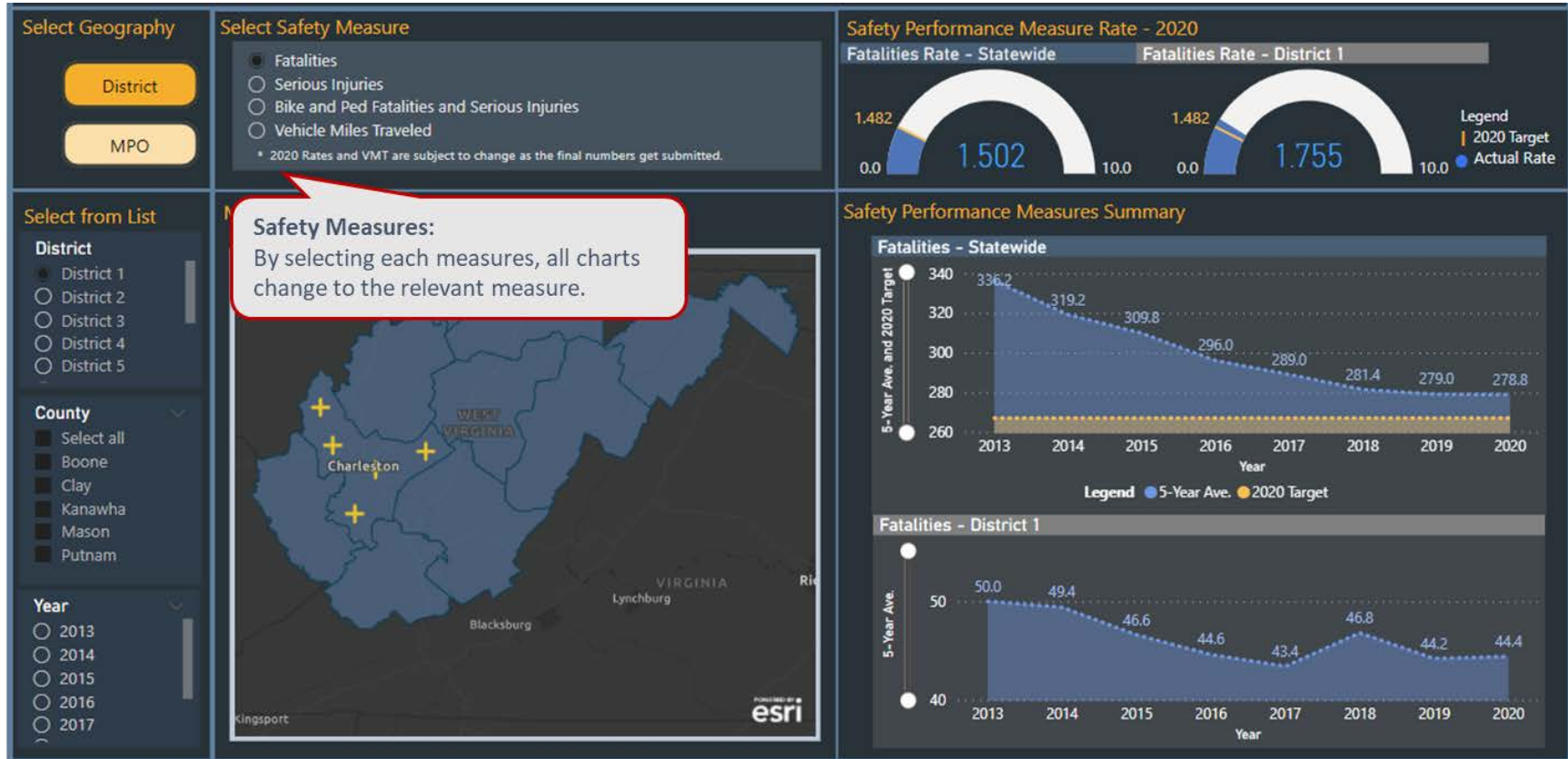
Year	Actual Rate	2021 Target
2020	1.19	1.40

Actual Rate	2021 Target
1.15	1.40



Safety Performance Measure

Annual fatalities and serious injuries for motor vehicle occupants, the rate of those fatalities and serious injuries per 100 million vehicle miles traveled (VMT), and the annual fatalities and serious injuries for cyclists and pedestrians. Data is tracked for all public roads and reported to the Federal Highway Administration (FHWA) and the National Highway Transportation Safety Administration (NHTSA) on an annual basis to estimate a five-year rolling average for each measure.



Note, when “Bike and Ped Fatalities and Serious Injuries” or “Vehicle Miles Traveled” are selected in the “Select Safety Measure” area, the top right corner of the Dashboard (“Safety Performance Measure Rate – Year”) shows results that are blank. This is because rate measures are not needed for the bicycle and pedestrian measures and are not applicable for the VMT statistics.



Dashboard User Cases

User Case 1: A District 5 Engineer wants to have a closer look at bridges with Poor performance measures.

The steps required:

1. Go to Bridge dashboard and click on District drop-down options:

WVDOT Bridge Performance Measures
State and District Level

Download Data
Clear All Selection

Select Geography: Districts, MPO

Select from Drop-down: District (All, District 1-10)

County: All, Year: All

Mapping: No. of Bridges - Statewide (2020) 5173, No. of Bridges - User Selection (2020) 5173

NHS Bridge Performance Measures Summary

Bridge Condition by Year (%) - Statewide

Year	Good (%)	Fair (%)	Poor (%)
2017	13.9%	74.2%	11.9%
2018	13.1%	71.6%	15.3%
2019	11.6%	75.0%	13.5%
2020	8.8%	77.8%	13.4%

Area (%)
Condition: Good (Yellow), Fair (Orange), Poor (Red)

Bridge Information (2020)

BARS No.	Local Bridge Name	District	Deck Type
26A066	Parrs Camp Bridge	District 6	CONC-CIP
31A015	JERE SLAB	District 4	CONC-CIP
06A114	5TH ST. RITTER PARK BR.	District 2	CONC-CIP
02A023	HEDGESVILLE H.S. BRG.	District 5	CONC-CIP



2. Click on "District >> Select all" to deselect all districts. Then Click on District 5.

The screenshot shows the 'Select Geography' panel with 'Districts' and 'MPO' buttons. The 'Select from Drop-down' panel has 'District', 'County', and 'Year' dropdowns. The 'District' dropdown is open, showing a list of options: 'All', 'Select all', 'District 1', 'District 2', 'District 3', 'District 4', 'District 5', 'District 6', 'District 7', 'District 8', 'District 9', and 'District 10'. A red arrow points to the 'Select all' option. The map below shows West Virginia with bridge locations marked as colored dots. Two data boxes are visible: 'No. of Bridges - Statewide (2020)' with a value of 1291 and 'No. of Bridges - User Selection (2020)' with a value of 1291.

This is a close-up of the 'District' dropdown menu. The options are: 'District 5', 'Select all', 'District 1', 'District 2', 'District 3', 'District 4', 'District 5', 'District 6', 'District 7', 'District 8', 'District 9', and 'District 10'. The 'District 5' option is selected, indicated by a black square next to it. A red arrow points to the 'District 5' option.



3. Click on 2020 Poor condition on the “Bridge Condition by Year – District 5” chart.

Select Geography

Districts | MPO

Select from Drop-down

District: District 5 | County: All | Year: All

Mapping

No. of Bridges - Statewide (2020)
5173

No. of Bridges - User Selection (2020)
8

esri

NHS Bridge Performance Measures Summary

Bridge Condition by Year (%) - Statewide

Year	Good	Fair	Poor
2017	13.9%	74.2%	11.5%
2018	13.1%	71.6%	15.3%
2019	11.6%	75.0%	13.5%
2020	8.8%	77.8%	

Condition ● Good ● Fair ● Poor

Bridge Condition by Year (%) - District 5

Year	Good	Fair	Poor
2017	23.5%	73.0%	
2018	23.5%	72.9%	
2019	18.2%	78.2%	
2020		95.6%	

Condition ● Good ● Fair ● Poor

Bridge Information (2020)

BARS No.	Local Bridge Name	District	Deck Type
02A023	HEDGESVILLE H.S. BRG.	District 5	CONC-CIP
12A067	RT 93 SCHERR	District 5	CONC-CIP
29A054	CLAYSVILLE	District 5	CONC-CIP
02A084	MILL CREEK OVERPASS	District 5	CONC-CIP

By selecting “Poor” condition on the map, both map and Bridge Information table change to show the relevant measure.



4. Go to “Bridge Information” table for more information on selected bridges.

NHS Bridge Performance Measures Summary

Bridge Condition by Year (%) - Statewide

Year	Good (%)	Fair (%)	Poor (%)
2017	13.9%	74.2%	11.8%
2018	13.1%	71.6%	15.3%
2019	11.6%	75.0%	13.5%
2020	8.8%	77.8%	13.4%

Bridge Condition by Year (%) - District 5

Year	Good (%)	Fair (%)	Poor (%)
2017	23.5%	73.0%	3.5%
2018	23.5%	72.9%	3.6%
2019	18.2%	78.2%	3.6%
2020	95.6%	4.4%	0%

Bridge Information (2020)

BARS No.	Local Bridge Name	District	Deck Type
02A023	HEDGESVILLE H.S. BRG.	District 5	CONC-CIP
12A067	RT 93 SCHERR	District 5	CONC-CIP
29A054	CLAYSVILLE	District 5	CONC-CIP
02A084	MILL CREEK OVERPASS	District 5	CONC-CIP

BARS No.	Local Bridge Name	District	Deck Type	Deck Condition	Substructure Condition	Superstructure Condition	Culverts	Under Bridge
02A023	HEDGESVILLE H.S. BRG.	District 5	CONC-CIP	Poor	Fair	Poor	N	5 - Waterway
12A067	RT 93 SCHERR	District 5	CONC-CIP	Poor	Poor	Poor	N	5 - Waterway
29A054	CLAYSVILLE	District 5	CONC-CIP	Poor	Fair	Fair	N	5 - Waterway
02A084	MILL CREEK OVERPASS	District 5	CONC-CIP	Serious	Fair	Fair	N	6 - Highway - Waterway
02A100	MILL CREEK OVERPASS	District 5	CONC-CIP	Serious	Fair	Satisfactory	N	6 - Highway - Waterway
19A027	NORFOLK SOUTHERN BYPASS	District 5	CONC-CIP	Satisfactory	Poor	Good	N	2 - Railroad
12A114	RT. 93 Scherr Overpass	District 5	CONC-CIP	Satisfactory	Poor	Good	N	6 - Highway - Waterway
33A021	SPOHR'S CROSSROADS	District 5	NA	Not Applicable	Poor	Poor	N	5 - Waterway



- Click on the specific bridge on the map for exact location.

Select Geography

Districts
MPO

Select from Drop-down

District: District 5
County: All
Year: All

Mapping

y	39.34
x	-79.07
Condition	Poor
AREA	4,302.60
STRUCTURE	0000000029A054
ROW_ID	3

NHS Bridge Performance Measures Summary

Bridge Condition by Year (%) - Statewide

Year	Good (%)	Fair (%)	Poor (%)
2017	13.9%	74.2%	11.9%
2018	13.1%	71.6%	15.3%
2019	11.6%	75.0%	13.5%
2020	8.8%	77.8%	13.4%

Bridge Condition by Year (%) - District 5

Year	Good (%)	Fair (%)	Poor (%)
2017	23.5%	73.0%	3.5%
2018	23.5%	72.9%	3.6%
2019	18.2%	78.2%	3.6%
2020	0%	95.6%	4.4%

Bridge Information (2020)

BARS No.	Local Bridge Name	District	Deck Type
02A023	HEDGESVILLE H.S. BRG.	District 5	CONC-CIP
12A067	RT 93 SCHERR	District 5	CONC-CIP
29A054	CLAYSVILLE	District 5	CONC-CIP
02A084	MILL CREEK OVERPASS	District 5	CONC-CIP



- Click anywhere on the map to deselect.
- Click on "Clear All Selection" to go back to default setting.

WVDOT Bridge Performance Measures

State and District Level

Download Data
Clear All Selection

Select Geography

Districts

MPO

Select from Drop-down

District

All

County

All

Year

All

Mapping

NHS Bridge Performance Measures Summary

Bridge Condition by Year (%) - Statewide

Year	Good (%)	Fair (%)	Poor (%)
2017	13.9%	74.2%	11.9%
2018	13.1%	71.6%	15.3%
2019	11.6%	75.0%	13.5%
2020	8.8%	77.8%	13.4%

Area (%)
Condition ● Good ● Fair ● Poor

Bridge Condition by Year (%) -

Year	Good (%)	Fair (%)	Poor (%)
2017	13.9%	74.2%	11.9%
2018	13.1%	71.6%	15.3%
2019	11.6%	75.0%	13.5%
2020	8.8%	77.8%	13.4%

Area (%)
Condition ● Good ● Fair ● Poor

Bridge Information (2020)

BARS No.	Local Bridge Name	District	Deck Type
26A066	Parrs Camp Bridge	District 6	CONC-CIP
31A015	JERE SLAB	District 4	CONC-CIP
06A114	5TH ST. RITTER PARK BR.	District 2	CONC-CIP
02A023	HEDGESVILLE H.S. BRG.	District 5	CONC-CIP

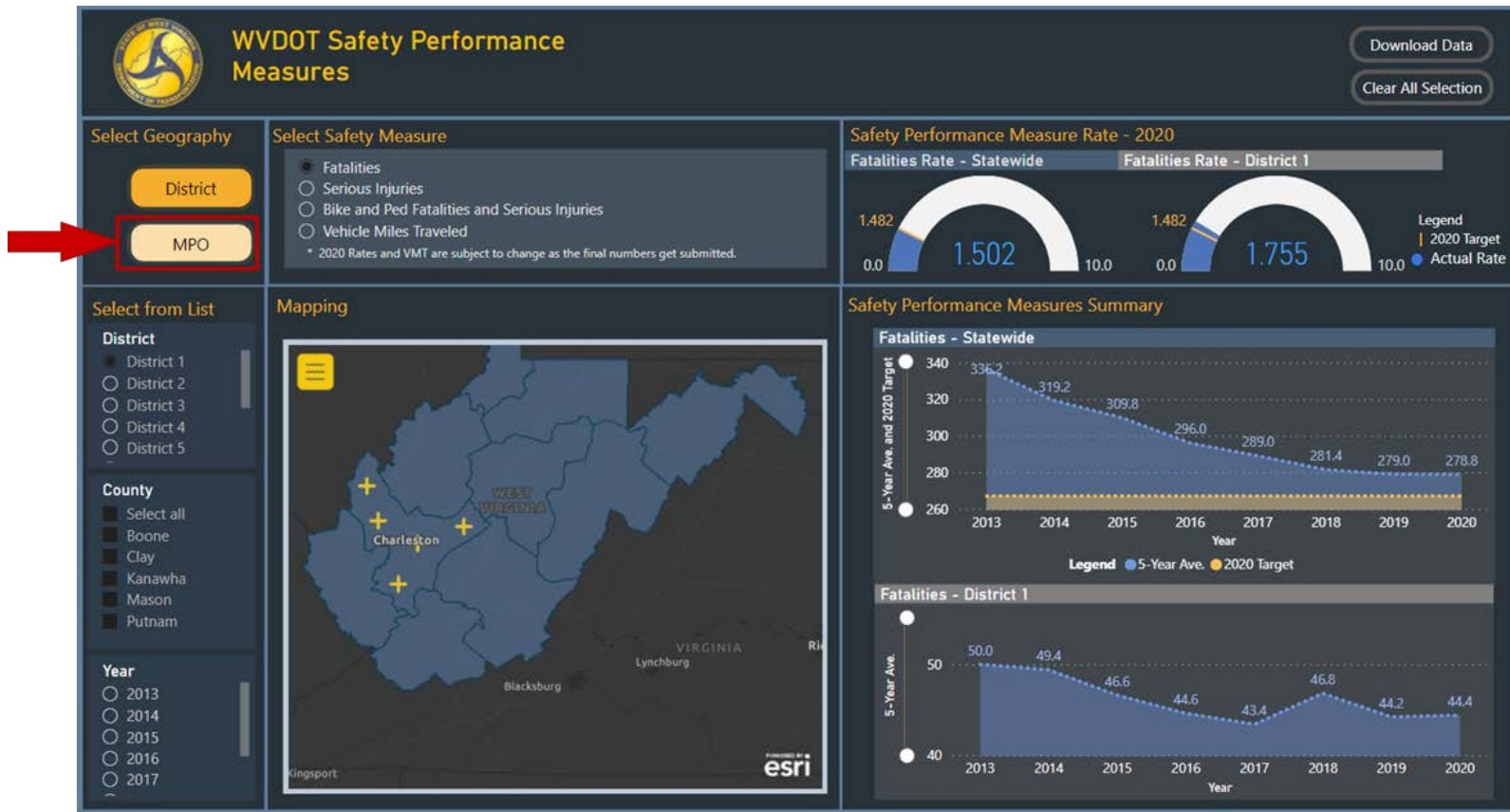
Clear All Selection:
A quick option to go back to the default selection.



User Case 2: A RIC MPO planner wants to check the Safety federal measures within their MPO area.

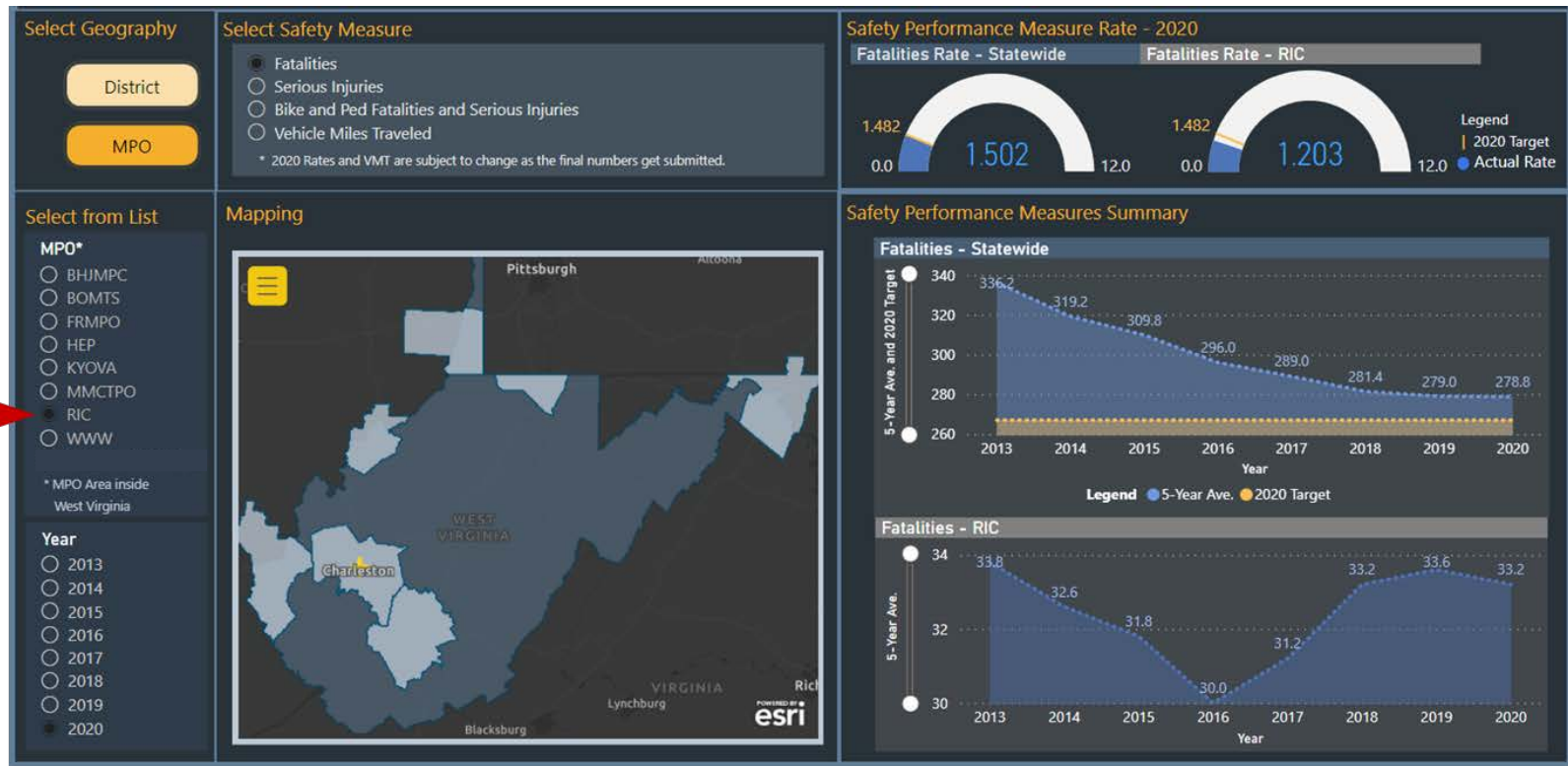
The steps required:

1. Go to Safety Performance Dashboard
2. Click on MPO – the default shows the District dashboard



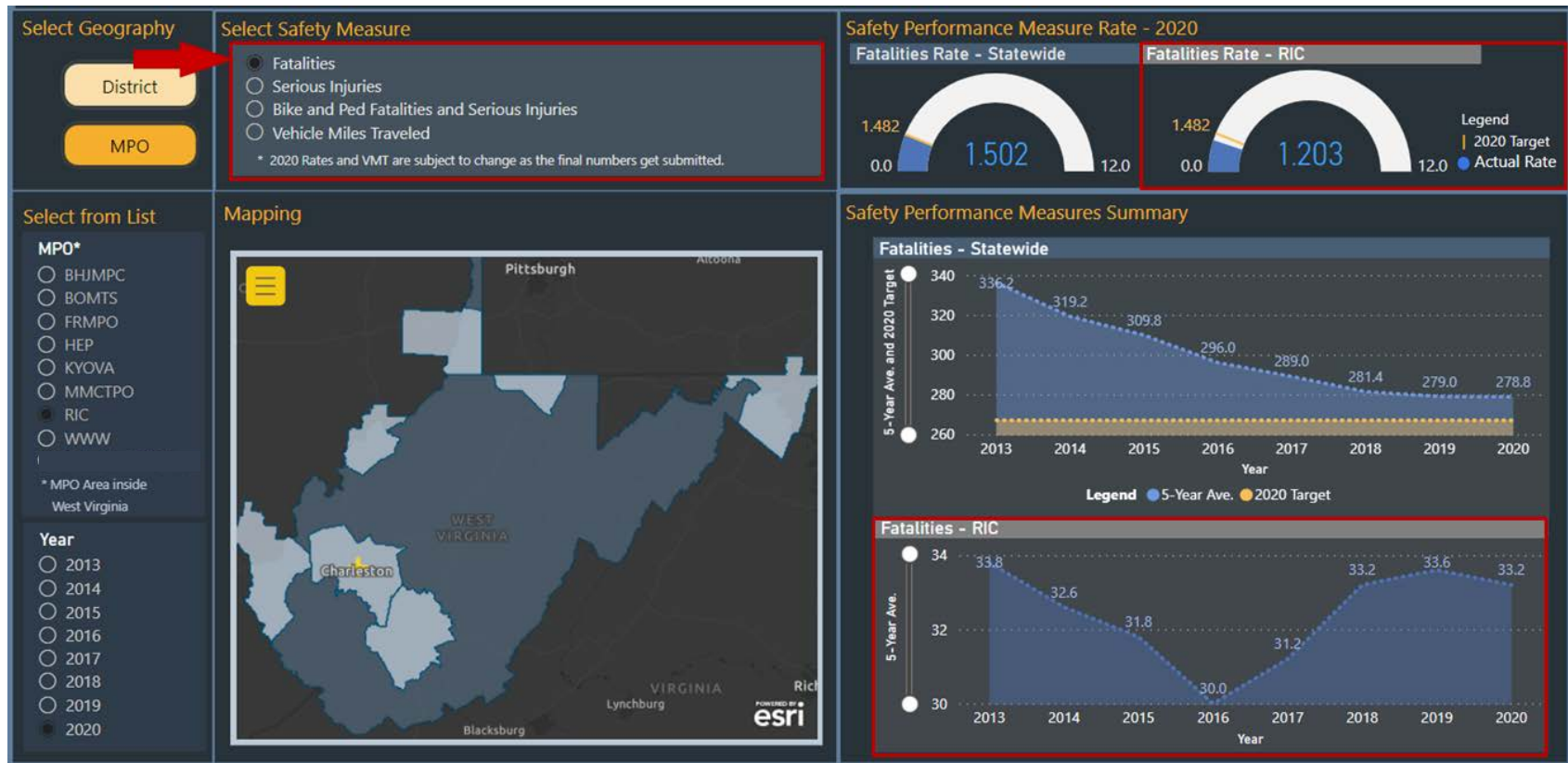


3. Click on RIC MPO



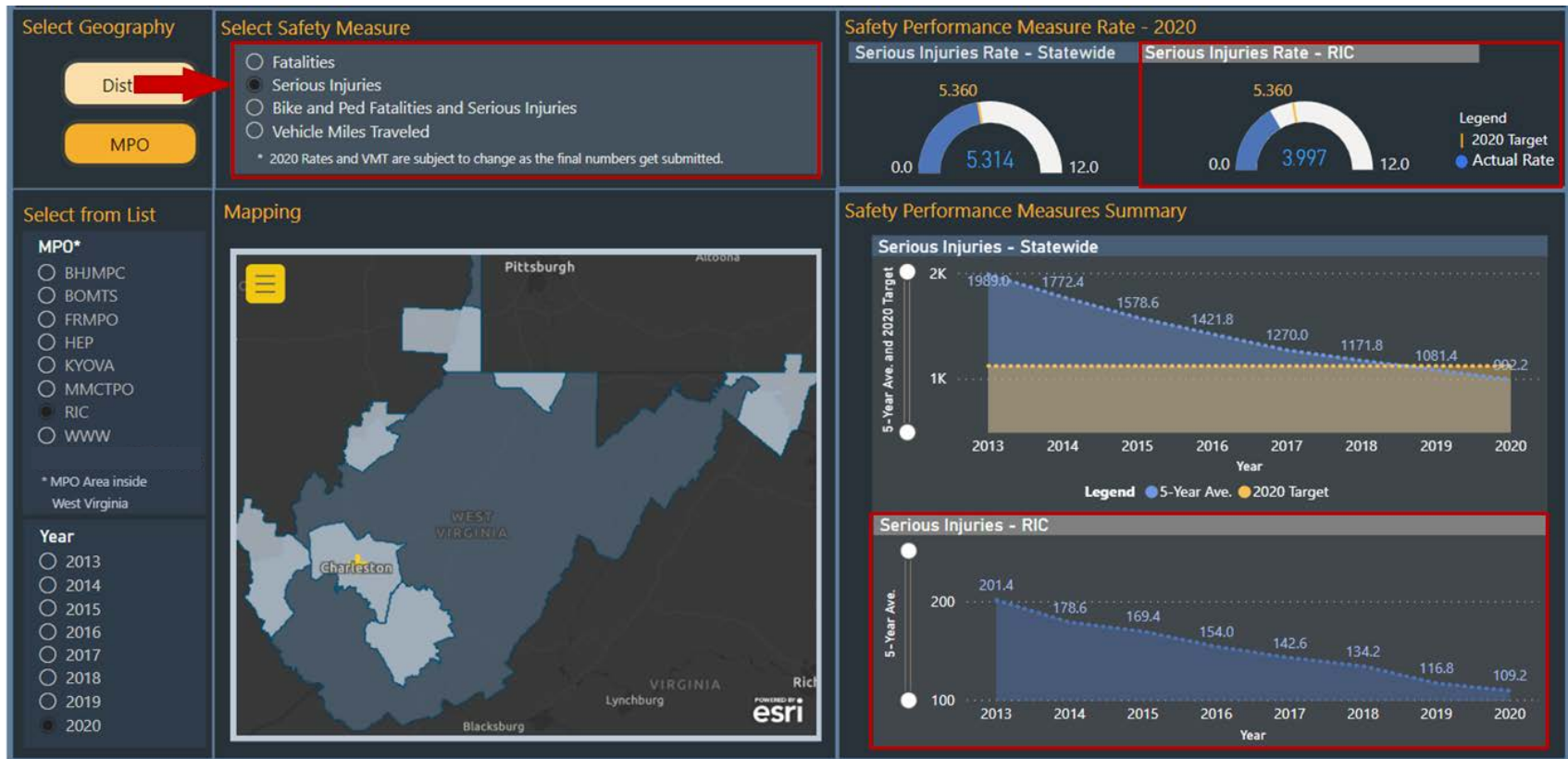


4. The default safety measure shows fatalities trend and rate for selected MPO and state level.



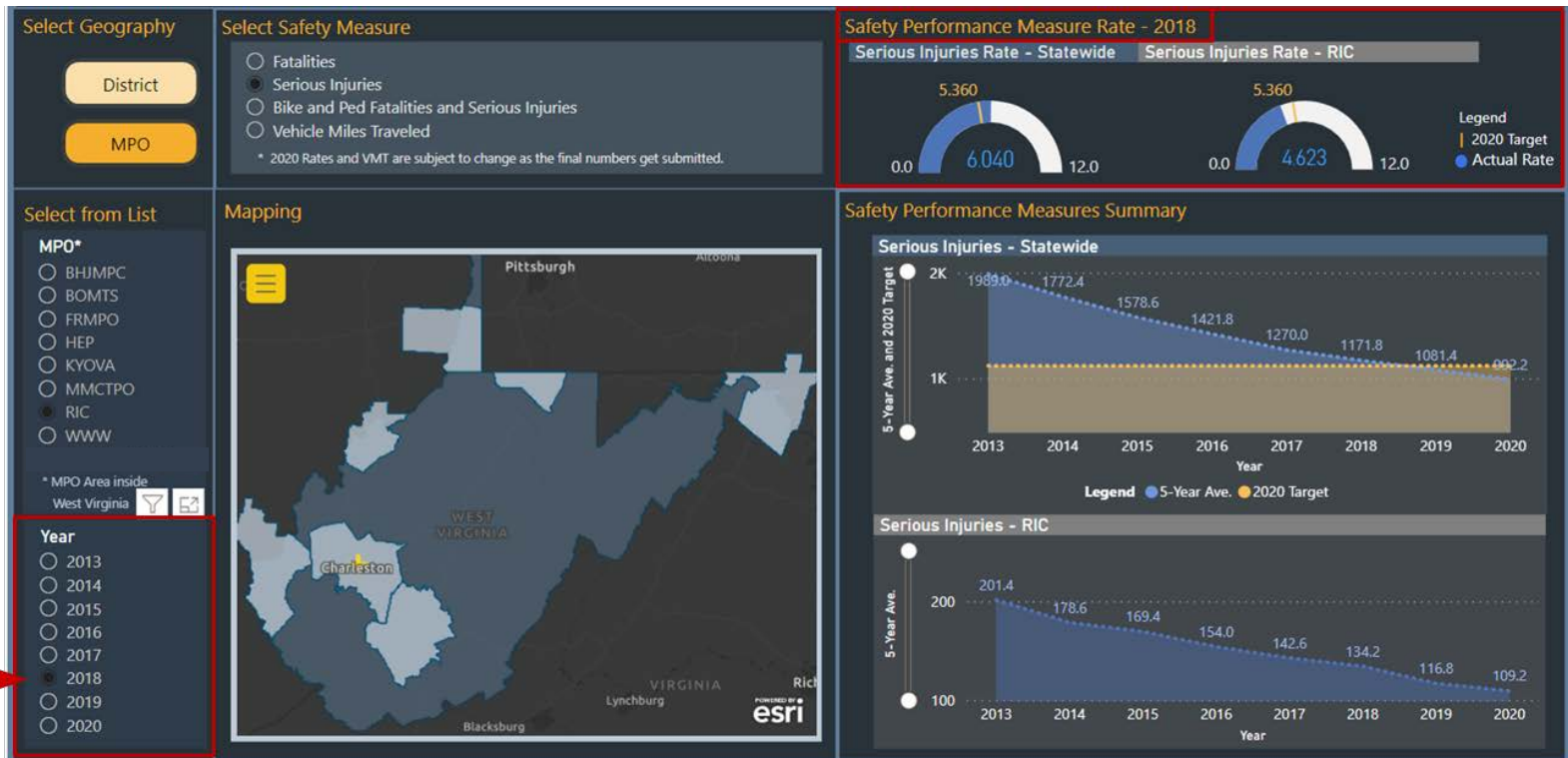


5. Select other safety measures to see the trends.





6. Choose other Year option to see previous year's rate – the default shows the performance year as 2020





- Click on "Clear All Selection" to go back to default setting.

WVDOT Safety Performance Measures

State and MPO Level

Download Data
Clear All Selection

Select Geography

District

MPO

Select Safety Measure

- Fatalities
- Serious Injuries
- Bike and Ped Fatalities and Serious Injuries
- Vehicle Miles Traveled

* 2020 Rates and VMT are subject to change as the final numbers get submitted.

Safety Performance Measure Rate - 2018

Fatalities Rate - Statewide

Fatalities Rate - RIC

Select from List

MPO*

- BHJMPC
- BOMTS
- FRMPO
- HEP
- KYOVA
- MMCTPO
- RIC
- WWW

* MPO Area inside West Virginia

Year

- 2013
- 2014
- 2015
- 2016
- 2017
- 2018
- 2019
- 2020

Mapping

Safety Performance Measures Summary

Fatalities - Statewide

Year	5-Year Ave.	2020 Target
2013	336.2	260
2014	319.2	260
2015	309.8	260
2016	296.0	260
2017	289.0	260
2018	281.4	260
2019	279.0	260
2020	278.8	260

Fatalities - RIC

Year	5-Year Ave.	2020 Target
2013	33.8	30
2014	32.6	30
2015	31.8	30
2016	30.0	30
2017	31.2	30
2018	33.2	30
2019	33.6	30
2020	33.2	30

Clear All Selection:
A quick option to go back to the default selection.



User Case 3: A District 2 engineer wants to check the pavement condition over a specific corridor.

The steps required:

1. Go to Pavement Performance dashboard and click on District drop-down options:

WVDOT Pavement Performance Measures
State and District Level

Download Data
Clear All Selection

Select Geography: Districts, MPO

Select from Drop-down: District, County, Year

Mapping - 2020

Interstate Pavement PM

Interstate - Statewide

Year	Good	Fair	Poor
2017	68.3%	31.6%	
2018	78.7%	21.1%	
2019	80.6%	19.4%	
2020	73.6%	25.9%	

Interstate - District 1

Year	Good	Fair	Poor
2017	59.0%	41.0%	
2018	69.4%	30.1%	
2019	75.7%	24.3%	
2020	75.0%	24.9%	

Non-Interstate NHS Pavement PM

Non-Interstate NHS - Statewide

Year	Good	Fair	Poor
2017	40.3%	58.6%	
2018	40.0%	58.7%	
2019	43.0%	55.0%	
2020	43.3%	55.2%	

Non-Interstate NHS - District 1

Year	Good	Fair	Poor
2017	38.4%	61.1%	
2018	37.2%	62.3%	
2019	43.5%	54.2%	
2020	45.1%	52.8%	

Road Condition in Year 2020

State Lane-Miles 2020	Route ID	LM Good	LM Fair	LM Poor	LM Missing	Lane-Miles	Year
6,126	03201190000NB	65.66	22.75	0.24	0.00	88.65	2020
District 1, Lane-Miles 2020	08100790000NB	16.18	0.88	0.00	0.00	17.06	2020
1,005	08100790000SB	16.20	0.87	0.00	0.00	17.07	2020
	20100640000EB	21.77	12.47	0.00	0.00	34.24	2020



2. Select District 2 from dropdown

Select Geography

Districts

MPO

Mapping - 20...

Select from Drop-down

District

- District 1
- District 2
- District 3
- District 4
- District 5
- District 6
- District 7
- District 8
- District 9
- District 10

County: All

Year: 2020

Interstate Pavement PM

Interstate - Statewide

Year	Good	Fair
2020	73.6%	25.9%
2018	80.6%	19.4%
2018	78.7%	21.1%
2020	68.3%	31.6%

Lane-Mile

Interstate - District 2

Year	Good	Fair
2017	74.1%	25.9%
2018	90.2%	
2019	90.9%	
2020	81.7%	18.3%

Lane-Miles

Condition ● Good ● Fair

Non-Interstate NHS Pavement PM

Non-Interstate NHS - Statewide

Year	Good	Fair	Poor
2020	43.3%	55.2%	
2018	43.0%	55.0%	
2018	40.0%	58.7%	
2020	40.3%	58.6%	

Lane-Mile

Non-Interstate NHS - District 2

Year	Good	Fair	Poor
2017	32.6%	66.2%	
2018	33.1%	64.7%	
2019	44.3%	54.7%	
2020	46.2%	52.8%	

Lane-Miles

Condition ● Good ● Fair ● Poor

Road Condition in Year 2020

State Lane-Miles 2020	Route ID	LM Good	LM Fair	LM Poor	LM Missing	Lane-Miles	Year
6,126	06100640000EB	41.68	9.51	0.00	0.00	51.19	2020
District 2, Lane-Miles 2020	06100640000WB	40.62	11.32	0.00	0.00	51.94	2020
708	06200520000EB	0.40	1.43	0.28	0.00	2.11	2020
	06200520004NB	0.00	0.46	0.00	0.00	0.46	2020



3. If you know the "Route ID", Go to "Road Condition" table at bottom right corner and click on "Focus mode" on the top right corner of the table:

Select Geography
Districts | MPO

Select from Drop-down
District: District 2 | County: All | Year: 2020

Mapping - 2020
Ashland, Huntington, Charleston

Interstate Pavement PM

Interstate - Statewide

Year	Good	Fair
2020	73.6%	25.9%
2018	80.6%	19.4%
2017	78.7%	21.1%
2016	68.3%	31.6%

Interstate - District 2

Year	Good	Fair
2017	74.1%	25.9%
2018	90.2%	
2019	90.9%	
2020	81.7%	18.3%

Non-Interstate NHS Pavement PM

Non-Interstate NHS - Statewide

Year	Good	Fair
2020	43.3%	55.2%
2018	43.0%	55.0%
2017	40.0%	58.7%
2016	40.3%	58.6%

Non-Interstate NHS - District 2

Year	Good	Fair
2017	32.6%	66.2%
2018	33.1%	64.7%
2019	44.3%	54.7%
2020	46.2%	52.8%

Road Condition in Year 2020

State Lane-Miles 2020: 6,126
District 2 Lane-Miles 2020: 708

Route ID	LM Good	LM Fair	LM Poor	LM Missing	Lane-Miles	Year
06100640000EB	41.68	9.51	0.00	0.00	51.19	2020
06100640000WB	40.62	11.32	0.00	0.00	51.94	2020
06200520000EB	0.40	1.43	0.28	0.00	2.11	2020
06200520004NB	0.00	0.46	0.00	0.00	0.46	2020

Focus mode: click on this option to expand the table.

Back to report

Route ID	LM Good	LM Fair	LM Poor	LM Missing	Lane-Miles	Year
2330010000000	5.10	13.56	0.20	11.00	29.93	2020
06100640000EB	41.68	9.51	0.00	0.00	51.19	2020
06100640000WB	40.62	11.32	0.00	0.00	51.94	2020
06200520000EB	0.40	1.43	0.28	0.00	2.11	2020
06200520004NB	0.00	0.46	0.00	0.00	0.46	2020
06200600000EB	5.48	26.66	0.20	0.00	32.34	2020
06200600001EB	0.00	1.37	0.00	0.00	1.37	2020



4. Use "CTRL+F" key to search for the specific Route ID.

← Back to report

0630010000000 1/1 ^ v x

Route ID	LM Good	LM Fair	LM Poor	LM Missing	Lane-Miles	Year
2330010000000	5.10	13.56	0.20	11.00	29.93	2020
06100640000EB	41.68	9.51	0.00	0.00	51.19	2020
06100640000WB	40.62	11.32	0.00	0.00	51.94	2020
06200520000EB	0.40	1.43	0.28	0.00	2.11	2020
06200520004NB	0.00	0.46	0.00	0.00	0.46	2020
06200600000EB	5.48	26.66	0.20	0.00	32.34	2020
06200600001EB	0.00	1.37	0.00	0.00	1.37	2020
06200600007WB	3.86	11.79	0.80	0.00	16.45	2020
0630002000000	19.80	15.46	0.18	0.00	35.44	2020
0630002001300	0.00	0.62	0.00	0.00	0.62	2020
0630010000000	0.80	11.16	0.40	0.00	12.36	2020
0630106000000	0.00	0.04	0.08	0.00	0.12	2020
06301060000SB	0.00	0.20	0.00	0.00	0.20	2020

Search: Use "CTRL+F"
key to search for the
specific Route ID



- If you know the location of the corridor and do not know the "Route ID", go to the map. Locate the corridor by using the navigation or search tool on the map.

1. Search Tool:
Use this tool to find specific asset based on approximate location.

2. Interactive Map:
By selecting the road segment on the map, user could find Route ID information.

3. Segment Information:
Click on this box to find Route ID.

State Lane-Miles 2020	Route ID	LM Good	LM Fair	LM Poor	LM Missing	Lane-Miles	Year
6,126	233001000000	5.10	13.56	0.20	11.00	29.93	2020
708	06100640000EB	41.68	9.51	0.00	0.00	51.19	2020
	06100640000WB	40.62	11.32	0.00	0.00	51.94	2020
	06200520000EB	0.40	1.43	0.28	0.00	2.11	2020

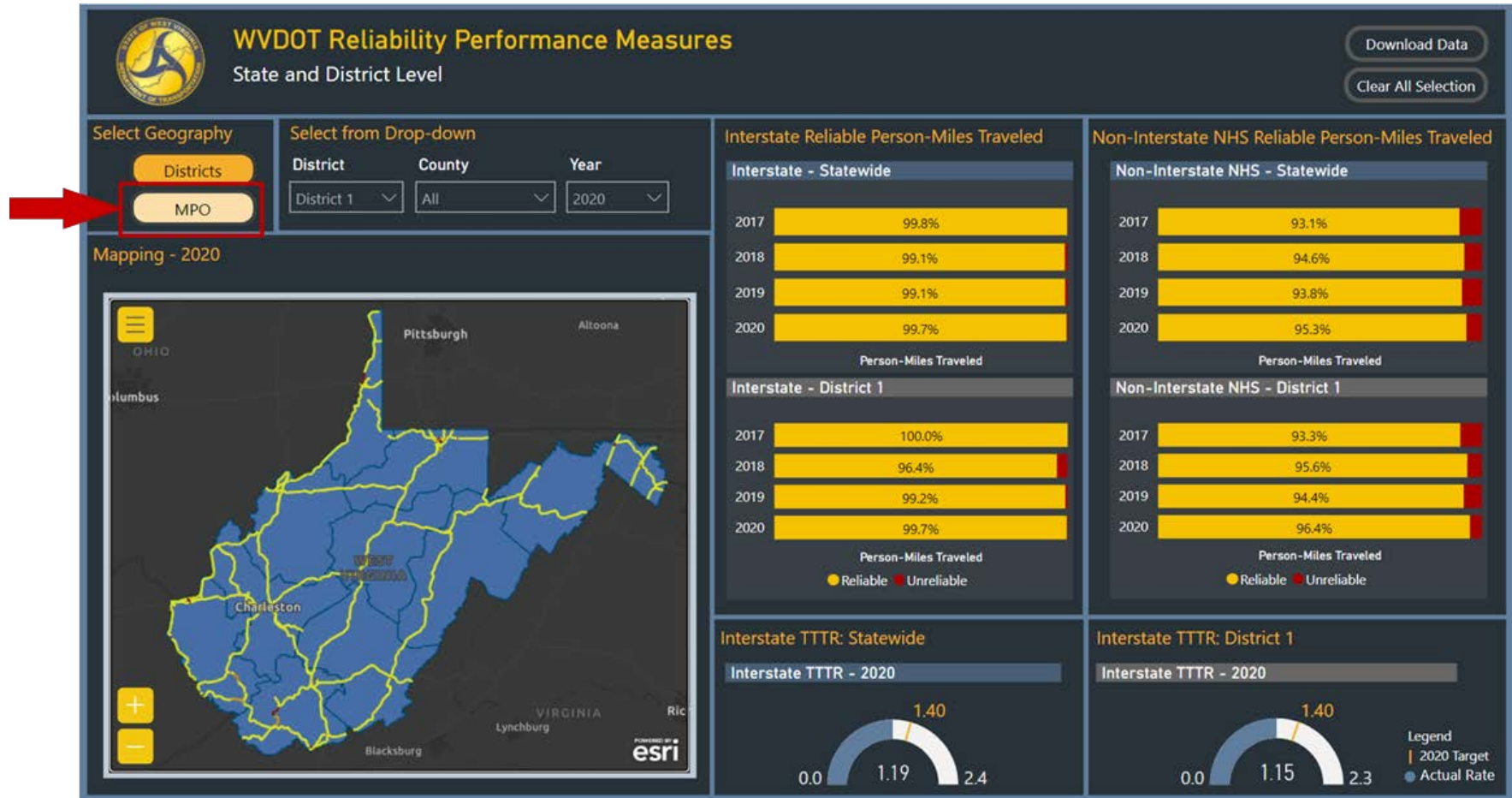
- Repeat steps 3 and 4 to find the road condition for the specific Route ID found in step 5.



User Case 4: A KYOVA MPO planner wants to check the trend for reliability measure at MPO level and the reliability measure at a specific bridge.

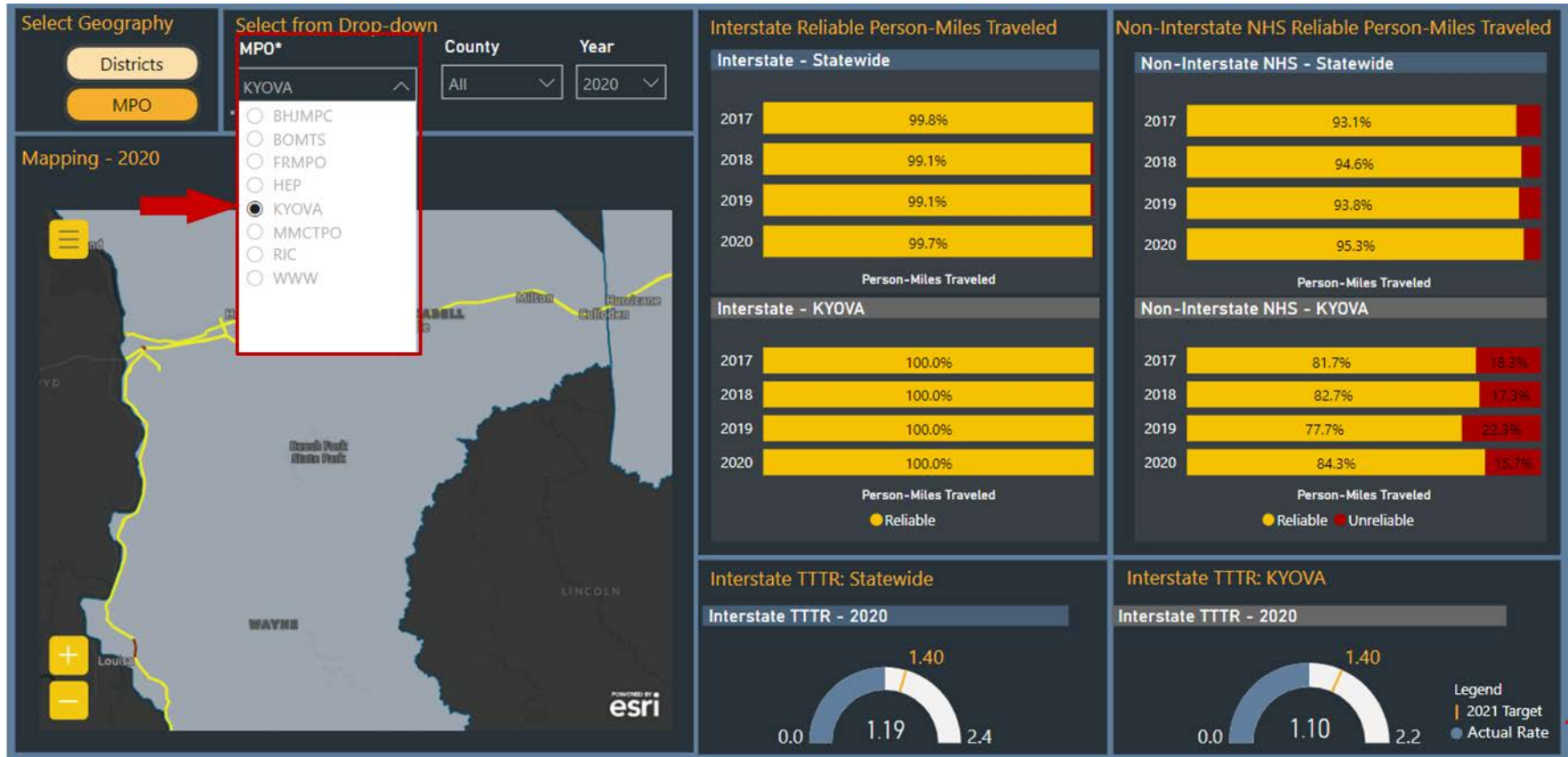
The steps required:

1. Go to Reliability Performance Dashboard
2. Click on MPO – the default shows the District dashboard





3. Click on KYOVA MPO





4. Check the State and MPO reliability trend

