

Self-Service Report Portal to Locating Linear Events



GIS Day 2025

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WVDOT INFORMATION TECHNOLOGY DIVISION

› Agenda

- What is event data?
- Self Service Report Portal
- Demonstration: Using the SSRP and Event Data
- QA/QC Event Data

What is Event Data?



› What is Event Data?

- Geographic features stored in a tabular format
- Can be displayed either as line or point data
- Needs to be created specifically for the network you are using
- To be displayed on map, need to have **GEOMETRY**

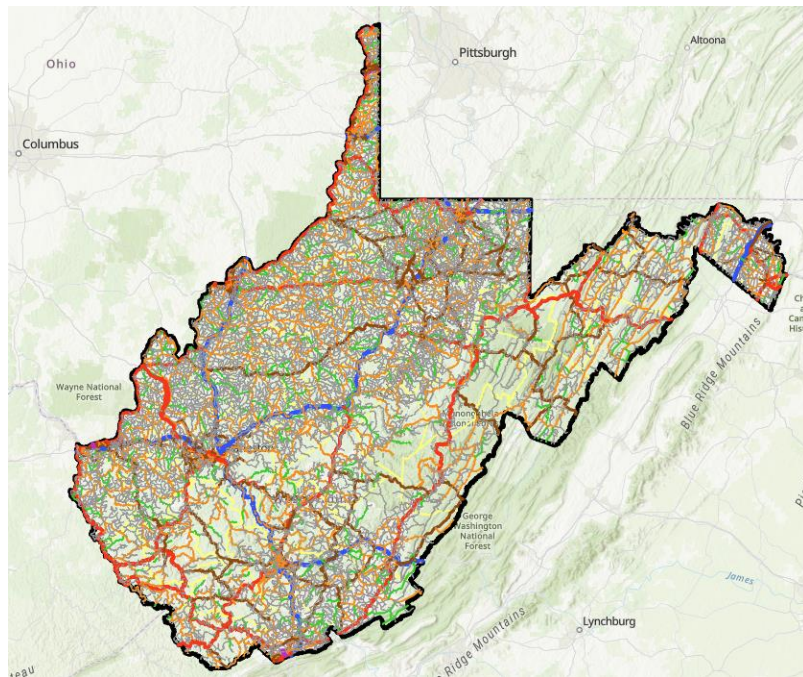


› Formatting an Event Table

- **RouteID** – 13 digit code that relates table entry to route in network
- **From MP** – Beginning mile point
- **To MP** – Ending mile point
- **Event Info** – The information you want to display or analyze
- **Unique ID** – Contains different value for each unit, GIS software will create this
- **†Milepoint** – For non-linear features, like signs, bridges, potholes, etc...

	A	B	C	D	E
1	Unique	RouteID	BMP	EMP	Width_ft
2	1	2040004010000	0.00	5.00	12
3	2	2040004010000	5.00	6.00	8
4	3	2040004010000	6.00	7.00	24
5	4	2040004010000	7.00	7.10	36
6	5	2040004010000	7.10	7.25	12

What is needed to map event data?



Route Dataset

ROUTE_ID	MP_Start	MP_End	AADT	AADT_YEA	AVG_LANE_W	PCT_PASS_SIGHT	SPEED_LIMIT_MPH	COUNTY	SignSystem
44100790000NB	21.28	25.46	8100	2023 12		0	70 44 - Roane	1 - Interstate	
44100790000SB	21.28	25.79	9400	2020 12			44 - Roane	1 - Interstate	
44100790000NB	25.46	25.79	8100	2023 12		0	70 44 - Roane	1 - Interstate	
44100790000NB	25.79	33.99	6800	2023 12		0	70 44 - Roane	1 - Interstate	
44100790000SB	25.79	36	7900	2020 12			44 - Roane	1 - Interstate	
44100790000NB	33.99	34.05	6800	2023 12		0	70 44 - Roane	1 - Interstate	
44100790000NB	34.05	36	6800	2023 12		0	70 44 - Roane	1 - Interstate	
44200330000EB	0	4.33	2000	2023 10			44 - Roane	2 - U.S.	
44200330000WB	0	4.33	1800	2020 10			44 - Roane	2 - U.S.	
44201190000NB	0	5.86	1700	2023 NULL			44 - Roane	2 - U.S.	
44201190000SB	0	5.86	1600	2020 NULL			44 - Roane	2 - U.S.	
44200330000EB	4.33	5.61	2000	2023 10		0	55 44 - Roane	2 - U.S.	
44200330000WB	4.33	5.61	2000	2020 10			44 - Roane	2 - U.S.	

Event Table

Using the Self Service Report Portal



Self-Service Report Portal

WV DOT Self-service Report Portal

General

Road Summary

Pavement Condition

LRS Road Inventory Log

LRS Overlay Report

QA

HPMS

Misc (Internal)

1 Layer (Attribute) Selection

☒ AADT
☒ ACCESS_CONTROL
☐ ALT_ROUTE_NAME
☐ AT_GRADE_OTHER
☐ AVG_LANE_WIDTH_FT
☐ CENSUS_URBAN_CODE
☐ CRACKING_LENGTH
☐ CRACKING_PERCENT
☐ CURVE_CLASS
☐ DES_TRUCK_ROUTE
☒ DISTRICT
☒ FACILITY
☐ FAULTING
☒ FEDERAL_AID
☐ FOREST_ROUTE

2 Sign System Selection

☒ 1 Interstate
☒ 2 US
☒ 3 WV
☒ 4 CO
☒ 6 State Park and Forest Rd
☒ 7 FANS
☒ 8 HARP
☐ 9 Other
☐ 0 Municipal Non-State
☐ R Railroad
☐ T Trail
☐ U US Forest Rd

3 County Selection

☒ All
☒ 01 - Barbour
☒ 02 - Berkeley
☒ 03 - Boone
☒ 04 - Braxton
☒ 05 - Brooke
☒ 06 - Cabell
☒ 07 - Calhoun
☒ 08 - Clay
☒ 09 - Doddridge
☒ 10 - Fayette
☒ 11 - Gilmer
☒ 12 - Grant
☒ 13 - Greenbrier
☒ 14 - Hampshire

4 Summary Options

☒ County
☐ AADT
☐ AADT_YEAR
☐ ACCESS_CONTROL
☐ DISTRICT
☐ FACILITY
☐ FAS_TYPE
☐ GRADE_WIDTH_FT
☐ MEDIAN_WIDTH_FT
☐ HPMS_MEDIAN_BARRIER_TYPE
☐ NAT_FUNCTIONAL_CLASS
☐ NHS
☐ ORIG_SURVEY_DIRECTION
☐ PAVEMENT_WIDTH_FT
☐ SPECIAL_SYSTEM

5 GIS Output

☒ None ☐ FGDB ☐ Shapefile

6 Email

Go

Self-Service Report Portal - Left panel

WV DOT Self-service Report Portal

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Self-Service Report Portal - Layers

WV DOT Self-service Report Portal

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Self-Service Report Portal - Sign System

WV DOT Self-service Report Portal

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Self-Service Report Portal - Counties

WV DOT Self-service Report Portal

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Self-Service Report Portal - Summary

WV DOT Self-service Report Portal

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- ☐ SPECIAL_SYSTEM

Self-Service Report Portal - Download Formats

- **None** download a zip file containing an excel file with the selected layers.
- **FGDB** download a zip file containing a GeoDatabase and an excel file.
- **Shapefile** download a zip file containing a Shapefile and an excel file.

QA
HPMS
Misc (Internal)

<input type="checkbox"/> AVG_LANE_WIDTH_FT	<input checked="" type="checkbox"/> 6 State Park and Forest Rd	<input checked="" type="checkbox"/> 04 - Braxton	<input type="checkbox"/> DISTRICT
<input type="checkbox"/> CENSUS_URBAN_CODE	<input checked="" type="checkbox"/> 7 FANS	<input checked="" type="checkbox"/> 05 - Brooke	<input type="checkbox"/> FACILITY
<input type="checkbox"/> CRACKING_LENGTH	<input checked="" type="checkbox"/> 8 HARP	<input checked="" type="checkbox"/> 06 - Cabell	<input type="checkbox"/> FAS_TYPE
<input type="checkbox"/> CRACKING_PERCENT	<input type="checkbox"/> 9 Other	<input checked="" type="checkbox"/> 07 - Calhoun	<input type="checkbox"/> GRADE_WIDTH_FT
<input type="checkbox"/> CURVE_CLASS	<input type="checkbox"/> 0 Municipal Non-State	<input checked="" type="checkbox"/> 08 - Clay	<input type="checkbox"/> MEDIAN_WIDTH_FT
<input type="checkbox"/> DES_TRUCK_ROUTE	<input type="checkbox"/> R Railroad	<input checked="" type="checkbox"/> 09 - Doddridge	<input type="checkbox"/> HPMS_MEDIAN_BARRIER_TYPE
<input checked="" type="checkbox"/> DISTRICT	<input type="checkbox"/> T Trail	<input checked="" type="checkbox"/> 10 - Fayette	<input type="checkbox"/> NAT_FUNCTIONAL_CLASS
<input checked="" type="checkbox"/> FACILITY	<input type="checkbox"/> U US Forest Rd	<input checked="" type="checkbox"/> 11 - Gilmer	<input type="checkbox"/> NHS
<input type="checkbox"/> FAULTING		<input checked="" type="checkbox"/> 12 - Grant	<input type="checkbox"/> ORIG_SURVEY_DIRECTION
<input checked="" type="checkbox"/> FEDERAL_AID		<input checked="" type="checkbox"/> 13 - Greenbrier	<input type="checkbox"/> PAVEMENT_WIDTH_FT
<input type="checkbox"/> FOREST_ROUTE		<input checked="" type="checkbox"/> 14 - Hampshire	<input type="checkbox"/> SPECIAL_SYSTEM

5 GIS Output ☒ None ☐ FGDB ☐ Shapefile

6 Email

Go

› Self-Service Report Portal - Email

- **Email** fill out the email to receive the link to download the zip file in your email.

Misc (Internal)

<input type="checkbox"/> CRACKING_LENGTH	<input checked="" type="checkbox"/> 8 HARP	<input checked="" type="checkbox"/> 06 - Cabell	<input type="checkbox"/> FAS_TYPE
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<input checked="" type="checkbox"/> FACILITY	<input type="checkbox"/> U US Forest Rd	<input checked="" type="checkbox"/> 11 - Gilmer	<input type="checkbox"/> NHS
<input type="checkbox"/> FAULTING		<input checked="" type="checkbox"/> 12 - Grant	<input type="checkbox"/> ORIG_SURVEY_DIRECTION
<input checked="" type="checkbox"/> FEDERAL_AID		<input checked="" type="checkbox"/> 13 - Greenbrier	<input type="checkbox"/> PAVEMENT_WIDTH_FT
<input type="checkbox"/> FOREST_ROUTE		<input checked="" type="checkbox"/> 14 - Hammons	<input type="checkbox"/> SPECIAL_SYSTEM

5 GIS Output ☒ None ☐ FGDB ☐ Shapefile

6 Email

Go

› Self-Service Report Portal - Go

- **Go** - Click on Go button to start the download, depending on the amount of layers selected it will take moment.

HPMS
Misc (Internal)

☐ CENSUS_URBAN_CODE
☐ CRACKING_LENGTH
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Demonstration



Data QA/QC



How to find errors?

- During **Make Route Event Layer**, always select **Generate Location Errors**
- Field **LOC_ERROR** will be created on data
- Select by Attributes** for **LOC_ERROR** not equal **NO ERROR**

ObjectID *	COUNTY	ROUTE_NAME	ROUTEID	FROM_MP	TO_MP	LENGTH	LOC_ERROR	SUPP_CODE	DESCRIPTION	QAQC CODE
1	1	Tucker	Corridor H	47200480024EB	0	6.3	NO ERROR	24	Corridor H Constructi...	<Null>
2	2	Wood	WV 2	5430002000000	23.11	29.46	NO ERROR	00	WV 2 from the junctio...	<Null>
3	3	Raleigh	WV 121 Coalfields Xpr...	4130121000000	6.46	10.86	NO ERROR	00	Coalfields Expressway...	Short from
4	4	Mercer	US 52 King Coal High...	28200520024EB	5.08	7.83	NO ERROR	24	King Coal from WV 71...	<Null>
5	5	Mercer	WV 108 King Coal Hig...	2830108000000	1.1	2.43	NO ERROR	00	King Coal from Wv 123...	Portion of
6	6	Putnam	US 35	40200350000NB	0	16.78	PARTIAL MATCH FOR T...	00	US 35 from I-64 to the...	<Null>
7	7	Ohio	WV 2	3530002000000	0	3.31	NO ERROR	00	WV 2 from the Marsha...	<Null>
8	8	McDowell	WV 121 Coalfields Xpr...	2430121002400	0	7	NO ERROR	24	Coalfields Expressway...	Not exactl
9	9	Mercer	US 52 King Coal High...	28200520024EB	7.83	10.93	PARTIAL MATCH FOR T...	24	King Coal from WV 20...	<Null>

Geoprocessing

Make Route Event Layer

Parameters Environments

Input Route Features
GTI_PUB_UTM.DBO.All_Routes

Route Identifier Field
CO_ROUTEID

Input Event Table
Critical_Rural_Freight_Mileage_ExportTable

Event Table Properties
Route Identifier Field
ROUTEID

Event Type
LINE

From-Measure Field
FROM_MP

To-Measure Field
TO_MP

Layer Name or Table View
Critical_Rural_Freight_Mileage_ExportTable Events

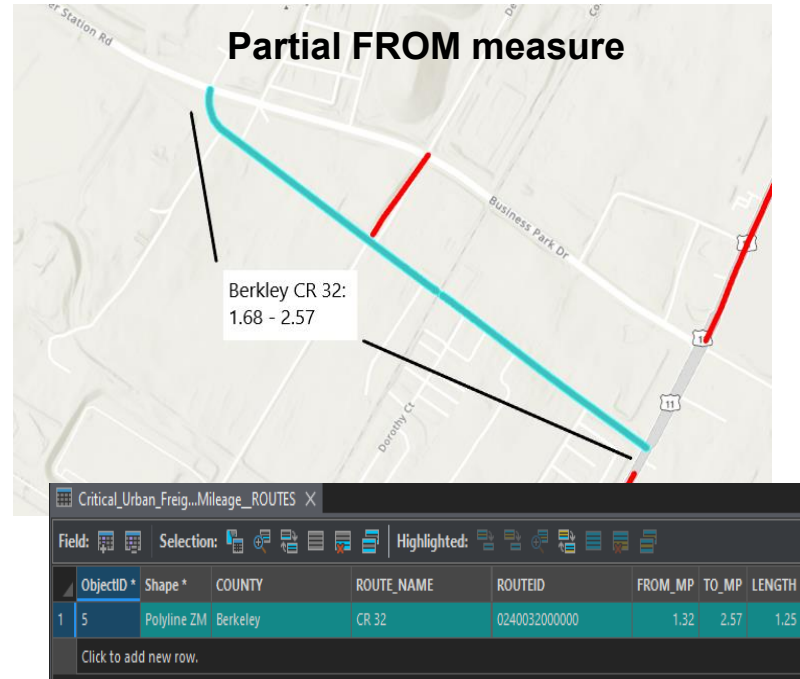
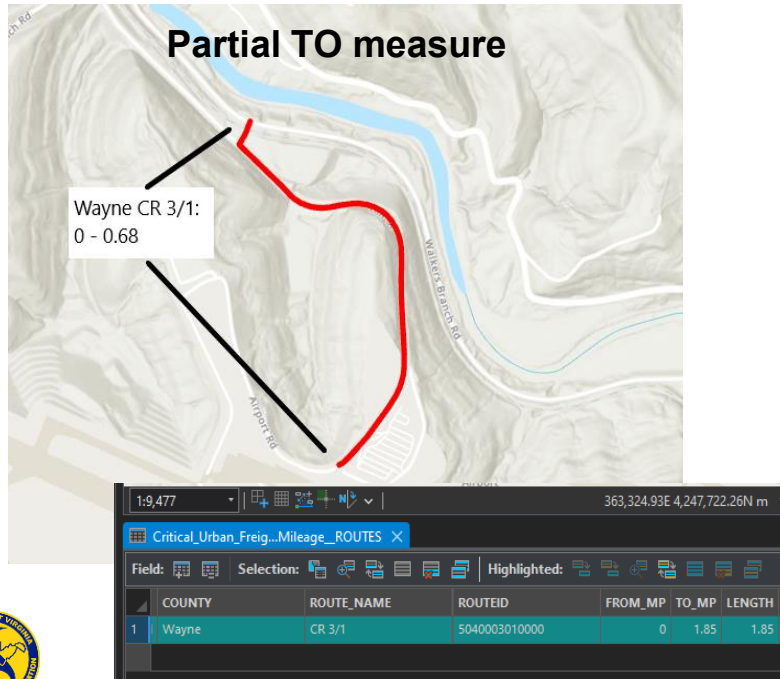
Offset Field

☒ Generate a field for locating errors

☐ Events with positive onset will be placed to the right of the routes

› Error Types

- No Error
- Partial Match for the From(To) – Measure
- Partial Match for the From Measure and To Measure



Error Types

Route Not Found

934837	2.33001E+12	39.74	40.1	Patching	0223
934843	2.34001E+12	0	12.46	Patching	0223
961382	2.34001E+12	0	12.46	Mowing	0223
912248	2.34001E+12	0	0.08	Stabilizati	0223
912251	2.34001E+12	0	0.4	Stabilizati	0223
934896	2.34011E+12	0	0.89	Patching	0223
934899	2.34001E+12	0	1.78	Patching	0223
934900	2.34001E+12	1.78	1.84	Patching	0223
961442	2.34021E+12	0	0.05	Mowing	0223

Incorrect RouteIDs

ID	357,038.00
LNAME	
MILES	1.13
NHS	1.00
NHS_ACTION	
OWNERSHIP	1.00
ROUTEID	R-VA IS00581NB
Shape_Length	0.02
GN1	I581



Concurrent routes



Routes not in system yet



Wrong RouteID

› Best Practices: Check your data

- Ask yourself these questions to gauge how difficult cleaning the data will be
- When was it created?
- Where did it come from?
- Does your sheet have the correct fields?
- Is the data formatted correctly?
- Does this file exist as a Shapefile or Feature Class?

Rural / Urban	MPO	County	Sign System	Route #	Begin	End	Length
Urban	FRMPO	Raleigh	US	19	8.75	12.191	3.441
Urban	FRMPO	Raleigh	US	19	17.12	18.32	1.2
Urban	FRMPO	Raleigh	US	19	16.321	18.927	2.606
Urban	BOMMPO	Marshall	US	250	33.98	39.2	5.22
Urban	RIC	Kanawha	WV	94	1.507	6.962	5.455
Urban	RIC	Kanawha	US	119	0.7	1.17	0.47
Urban	RIC	Kanawha	WV	622	2.403	3.318	0.915
Urban	RIC	Kanawha	US	119	13.927	14.908	0.981
Urban	RIC	Kanawha	US	119	0	0.088	0.088
Urban	BOMMPO	Ohio	WV	2	3.31	8.89	5.58
Urban	RIC	Kanawha	US	119	0	0.3	0.3
Urban	RIC	Kanawha	US	119	0	0.3	0.3
Urban	RIC	Kanawha	US	119	15.424	17.03	1.606

› Best Practices: Which LRS are you using?

- If the data is clean, ask yourself these questions about the LRS
- Dominant Routes? All Routes? RIL? Transactional?
- When was the last version published?
- Are there routes that have been removed since last publication?
- Do the routes have signed Commissioner's Order?
- When in doubt, reach out to the data provider or the IT Division



Dominant Routes

WVDOT_Publisher

Data reflects most recent database publication (July 2024). All Dominant Highway Routes as part of Federal Linear Referencing System

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Questions?



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Thank You

