## Data Zone Training Manual

## Age of Controller Map



**REVISED** July 2016

#### **TRANSPORTATION PLANNING**

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#### **Contact Numbers**

Following is a list of contact numbers if you have questions regarding the material covered in this manual.

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From the TMS Homepage, select the "Data Zone" icon.

The following page will be displayed.



There are several mapping tools and resources available for use categorized by business area.

Click the "Traffic" icon.



Click the "Age of Controller" icon. This will flow to the "Age of Controller" map.



## Age of Controller and Call Report Volume Map

This map will display all the traffic signals within the state.

## Zoom Methods

The following methods can be used when zooming into a particular area:

- > Shift Key click and drag a box around the area
- > Mouse roller



## Icons





## Legend

In the bottom left-hand corner is a legend. The color of the dots indicate the signals age.



#### **Call Reports**

Zooming into a particular area, you will notice red boxes behind the signal dot. These boxes are call reports that are assigned to the signal for issues that have been reported. To display the call report, click on the signal dot and in the upper right-hand corner a dialog box will appear with the incident report.





- Click on a signal dot (see one outlined in red).
- In the upper right-hand corner, the signal information is displayed "Age", "Year Signalized", "Controller Turned On", "Date Retimed" and "Call Reports".

For this signal, there are eight call reports attached.

> Click on the "View" hyperlink.



> Click on the "Issue ID" hyperlink. The incident report will be displayed.

	Customer Se	rvice Center:	Issue D	etails: Re	port # 19-1	17-CD-13	321-13					
Edit Document	Create New Report	Exit No Save	Send T	o Assigned	Cancel Call	Report	Reopen Clo	sed Report				
Print												
Email link to this Call Report			G	o To: <u>(Top)</u> (Top	ic) (Location) (	Customers)	(Signal) (Arrival	(Actions) (Additional Info				
								ss Reminders:				
Compliment/Positive Request logged by:	Customer Comment Roselle Palma on 4/	24/2019 6-09-47 8	M		(03	s kep resp	ionsible for e	ensuring completion)				
	4/24/2019 05:59 PM											
Request Date:	4242010 00.001 M	Received on Thi										
Status:	COMPLETED											
Problem (in customer's words):		chord Ave. S. at G.W. Ln. St. Customer states that signal head is turned.										
Торіс			Go	To: (Top) (Topie	c) (Location) (C	ustomers) (S	ignal) (Arrival)	(Actions) (Additional Info				
	Type of Call:							rom:				
Topic:		nergency day or nig	ght, weeke	nd or holiday	s)			ONE CALL				
0.10.1	Type:						O Media					
SubCategory:	Head Turned	I.					C Legis					
Signals							No Fu	unding				
Location and Ass	ignment Informatio	on	Go	To: (Top) (Topie	c) (Location) (C	ustomers) (S	Signal) (Arrival)	(Actions) (Additional Info				
			Do Not Re	quire Fields								
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Route: CST ICHORD A	VES					irection:						
					0	⊃N ⊠s	DEOW					
Location: at LOWE AVE					D	ept: TH - T	RAFFIC & HI	GHWAY SAFETY				
JASON.MO CDSIGNAL RYAN.SEAI CC: PRESTON.KRAME TRENT.BROOKS@ ROBERT.LYNCH@ MICHAEL.SCHUPF	natically when "Finish and Se .TON@MODOT.MO.G SCHJOST@MODOT.MO.GC SOUTH@MODOT.MO.GC SOUTH@MODOT.MO.GC CK@MODOT.MO.GOV MODOT.MO.GOV "@MODOT.MO.GOV "@MODOT.MO.GOV S-HARMON@MODOT.	nd" is used. OV MO.GOV DV .GOV OV MO.GOV		D Text Org	<u>1</u> Та	arget Date	: 4/24/2019					
· · ·				To: (Top) (Topie	c) (Location) (C	ustomers) (S	ignal) (Arrival)	(Actions) (Additional Info				
Add New Customer Add Call Back Date Name	Company	Phone Email Call Ba	ack Needed	1st Call Back	Date 2nd Call I	Back Date	3rd Call Back D	ate Remove				
Add Call Back Date	PULASKI COUNTY PD	N						Remove From Call				
Signals			Go 1	o: (Top) (Topic	) (Location) (Cu	ustomers) (S	ignal) (Arrival)	(Actions) (Additional Info				
Main Problem: Direction Repaired Item 1 Repaired: Direction: Ir		Ρ	roblem F	Reported								
Repaired By:												

All the information pertaining to the incident for the signal is listed on this report. On the "Call Reports" window, notice that there are eight reports.

Call Reports			 111/1	х
Showing 1 of 8				
CATEGOR CALL TYP REQUEST DAT STATU	D: <u>19-17-CD-1321-13</u> Y: Traffic / Signals / Head Turned E: Priority 1 (emergency day or ni E: Wednesday, April 24, 2019 S: COMPLETED N: Ichord Ave. S. at G.W. Ln. St. (	ight, weekend or holida		
		1	ext Clos	se

- Click the "Next" button. The second call report will be displayed.
  To exit the reports, click the "Close" button.

#### **ARAN Viewer**

The ARAN Viewer can be opened from the menu or any of the TMS applications. On the modernized TMS applications, there is a button located on the bottom of the screen that points to the ARAN Viewer.

For example, pull up a travelway in the Traffic Management System, Signal application, and a listing of signals will be displayed. Select a signal, and the "ARAN Viewer" button will become activated.

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nation			Selection C	riteria is BU 50 E Fr	om: 0 To: 3.184				+												
ader here to group	by that column	I																			
TRAVELWAY ID	ROUTE	CROSS STREET	COUNTY NAME	LOG	CNTY LOG	OBSERVED DATE	RETIMED DATE	ACCOUNT NUMBE	MASTER ACCOUN	YEAR SIGNALIZE	DISTRICT NUMBE	DATE TURNED O	N D/								
													IC.								
7744	BU 50 E	50 WEST RAMP	COLE	0.000	0.000	1/8/2014	5/20/2014	54639605117		1996	4	10/7/2010	1								
7744	BU 50 E	50 EAST RAMP	COLE	0.094	0.094	6/3/2014	5/20/2014	58413608110		1996	4	10/4/2010	10								
7744	BU 50 E	BUS 50 (MO BVLD)	COLE	0.149	0.149	11/8/2013	5/20/2014	52513608113		1993	4	10/6/2010	10								
7744	BU 50 E	MISSOURI BLVD TO MO179	COLE	0.254	0.254	1/28/2014	5/20/2014	51899128065		2010	4	10/19/2010	10								
7744	BU 50 E	STONERIDGE	COLE	0.721	0.721	11/8/2013	5/20/2014	53459095010		2007	4	10/9/2007	10								
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When opening the ARAN Viewer from another application, it will open to the selected location in the previous application. If opening the ARAN Viewer directly from the TMS Homepage, please see "Selecting a New Location" at the end of this document.

JAR/	AN Viewer					Ex. IS 70 E BOONE	N	Export	Print	Hide Othe	r Years/Dirs	Hide (
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12	RT	M	E	3976	1	5.917	5.96	14			SECTION_COND_ID	IK [
11	RT	M	F	3976	1	5.922	5.96	15			6	
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## **Play/Pause Buttons**

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ar	Desg	Name	Dir	Tway Id	% Cov	Min Log	Ma	Log			SECTION_ENDLOG	~
2015	RT	м	E	3976	1	5.923	5.9	3			6.000 SECTION_TRACKER	¥.
2014	RT	м	W	3977	1	0.036	0.0	6			NOT GOOD	
2013	RT	м	E	3976	1	5.917	5.9	7			SECTION_IRI 327.68	~
2012	RT	M	E	3976	1	5.917	5.9	4		~		~
2011	RT	M	F	3976	1	5.922	5.9	5		_	6	
6: 5.963	08-19-15 1:28:30	PM 58,709000.1HD									ARAN_IRI 327.68	~
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The bottom buttons operate just like a DVD with forward, reverse and stop.



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#### Scrub Bar

The scrub bar will move along the track as the ARAN truck moves down the road. Alternately, you can drag the scrub bar to the location you want to view in the selected section of roadway.

33.425	35.218

The bar next to the scrub bar is used to set how fast you want the frames to change when playing the video.

Fast	Slow
•	

#### Data

On the right-hand side of the video screen, there are 12 drop-down selection boxes that allow you to choose which data elements to view. These will display data from either or both of two sources: the ARAN table and the state of the system pavement table.

It is important to note that there are two options regarding the SS\_PAVEMENT data. One option is to view the state of the system data from the same year as the video selected. The other is to view everything using the current state of the system data. This is accomplished by activating the "Use Current SS Pavement" button.

AR	AN Viev	ver	
Fit To Window	Inset Map	IRI Graph	Use Current SS Pavement

### **Change the Data Elements**

> Select a data type from the drop-down arrow. Multiple changes can be made at one time.

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101.052			
SECTION_TRACKER	~		
GOOD			
SECTION_IRI	~		
54.59			
SECTION_COND_IDX	~		
10			
ARAN_IRI	~		
45.32			
ARAN_COND_IDX	~		
10		FED_CLS_NHS	~
AADT	~	NATIONAL HIGHWAY	(
14513		SYSTEM	
AADT	~	SECTION_ENDLOG	~
14513		101.052	
AADT	~	SECTION_TRACKER	~
14513		GOOD	
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ACCESS_CAT_NAME ARAN_COND_IDX	$\mathbf{h}$	54.59	
ARAN_IRI ARAN_LOG		SECTION_COND_IDX	×
ARAN_YEAR_2		10	
AREA_DESG_NAME AREA_ENGINEER		ARAN IRI	~
AUTO_COND_SURV_ID		45.32	
AVERAGE_RUT CITY_NAME		ARAN_COND_IDX	~
CNTL_TW_ID CNTY_LOG		10	
COM_VOL_BY_DIR		AADT	~
COUNTY_NAME COUNTY_NUMBER		14513	-
CROSSFALL DATE_COLLECTED			~
DESG_BYWAY_CLS_NM		STRAHNET	Ť
DESG_TRUCK_RTE_NM DISTRICT			
DISTRICT_NAME DIVIDED UNDIVIDED			<u>~</u>
DRIVER_IRI		14513	
ELEVATION FED CLS NFS			<u>~</u>
FED_CLS_NHS		14513	
FED_CLS_PRIORITY FED_CLS_STRAHCON	Y		~
FED_CLS_STRAHNET		14513	

The ARAN data will change with every image, approximately every 0.02 mile.

#### **Hide Data**

If no data is needed, it can be hidden to expand the image window.

> Click the "Hide Data" button.

er Years/Dirs	Hide Data
FED_CLS_NHS NATIONAL HI SYSTEM	✓ GHWAY
SECTION_ENDLOG	G 💙
SECTION_TRACK	ER 🔽
SECTION_IRI	~
SECTION_COND_I	DX 🔽
ARAN_IRI 45.32	~

This will remove the data from the screen. If the data is needed, click the "Show Data" button.

## **Change Years/Directions**

You may want to see previous years' ARAN data; this can be done two ways: (1) by using the year drop-down box next to the pause and play buttons or (2) using the year selection at the top of the screen.

Fit To Wir	ndow	Inset Map	IRI Graph	Use	e Current SS Pav	rement	Job N	Number: J510763		
Year		Desg	Name	Dir	Tway Id	% 0	ov	Min Log	Max Log	
2015		IS	70	Е	19	100		100.041	105.024	
2015		IS	70	W	3506	100		144.973	149.97	
2014		IS	70	Е	19	100		100.033	105.016	

Use the scroll bar located on the right-hand side to find the year or direction of data to view. Divided routes have video in both directions, and all other routes have video in at least one direction.

#### **Job Number**

The job number is a set of alphanumeric digits assigned to represent a construction project. The job number shown will be the most recent project completed at that location for the year selected. If a job number is listed, click on it to display the plans for that project.

Fit To Window	Inset Map IRI Graph	Use Current SS Pavement	Job Number: J5	512169				
Year	Desg	Name	Dir	Tway Id	% Cov	Min Log	Max Log	~
2015	IS	70	E	19	100	99.961	104.943	
2015	IS	70	W	3506	100	145.053	150.03	
2014	IS	70	E	19	100	99.973	104.956	
2014	IS	70	w	3506	100	145.054	150.031	~
2013	IS	70	F	19	100	99 975	104 955	

#### **Fit to Window**

By default, the "Fit to Window" button is active. Click the button to deactivate it, and the image will display full size. Use the scroll bars located on the bottom and right side to adjust the view.





To return the screen to normal, click the "Fit to Window" button again.

#### **Inset Map**

Click the "Inset Map" button, and a map will be displayed to the right of the video. This map will show the location of the image and will follow the path of the images while you are driving.



If you are not familiar with the area, use this tool. The map can be used as a secondary tool to follow the ARAN video. As the vehicle is driving down the roadway, the blue dot will follow the same path along the map.

### **IRI Graph**

The IRI (International Roughness Index) Graph is used to tell the smoothness of the road over a tenth of a mile.

Click the "IRI Graph" button. The graph will be displayed to the right of the video. This graph represents the tenth-mile average of IRI for the section and year selected.



#### **Export Data**

There is the ability to export data to either a "movie" or "JPG". The default will be an output type of movie.

You are exporting RT M E from I	og mile 1.005 to log mile 5.963 for the year	2015.
Name	RT_M_E_2015_1_005_to_5_963	
Email Address	jeannemarie.lebeau@modot.mo.gov	
Output Type	Movie (WMV)	~
Movie Size*	Small (Quarter Size)	~
Frame Rate*	1 fps (74 mph)	~
*These settings only apply to an settings are ignored.	output type of Movie (WMV). If you choose	Files (JPG), these

"Movie Size" and "Frame Rate" are mandatory fields. These fields can be changed with data from the drop-down lists.

> Click the "Submit" button. A notification message will be displayed.



Click the "OK" button.

#### Print

In order to print the data that is displayed, do the following:

- > Select the location.
- Click the "Print" button.

The picture of the selected roadway will be printed.

#### **Hide Other Years/Dirs**

The "Hide Other Years/Dirs" button is used to hide the upper part of the screen which displays the years, designation, and name and direction information.

> Click on the "Hide Other Years/Dirs" button.

it To Window Inse	t Map IRI Graph	Use Current SS Pavement	Job Number:	J5D0500A					FED_CLS_NHS	×
2013	IS	70	E	19	100	99.935	104.915		NATIONAL HIGH SYSTEM	
2013	IS	70	W	3506	100	145.077	150.057		SECTION_ENDLOG	~
2012	IS	70	E	19	100	99.935	104.911		SECTION_TRACKER	~
2012	IS	70	W	3506	100	145.077	150.058		GOOD	
2011	IS	70	E	19	100	99.921	104.906	~	SECTION_IRI 72.65	
2011	IS	70	W	3506	100	145.084	150.062		SECTION_COND_IDX	
3: 99.961 4:22:17	PN 1AD0E00	0.180						^	7.9 ARAN_IRI	
MAC	OT								179.56	
ITIQL									ARAN_COND_IDX	
									AADT	
									13230	
									AADT 13230	1
CONTRACTOR OF THE OWNER	Statement Contraction	the second s	Contraction of the local division of the loc						AADT	

Notice that the upper part of the screen is now hidden. To make data reappear, click the "Show Other Years/Dirs" button.



There are two ways to select a location: (1) free form typing or (2) from the map.

#### **Free Form**

> In the text box, type the name of the location or the partial name.

us 54 e m	× 🏚 Export Print
US 54 E MILLER	125.459 148.649MILLER
US 54 E MEXICO	216.264 217.585City of MEXICO
US 54 E MEXICO	211.502 213.123City of MEXICO
US 54 E MACKS CREEK	96.581 97.725 City of MACKS CREEK
US 54 E LADDONIA	232.661 232.783City of LADDONIA
US 54 E ELDON	139.604 140.196City of ELDON
US 54 E HERMITAGE	74.724 76.667City of HERMITAGE
US 54 E LADDONIA	231.719 232.625City of LADDONIA
US 54 E WEAUBLEAU	60.738 62.028City of WEAUBLEAU
US 54 E	0 271.741(VERNON)
US 54 E CALLAWAY	168.948 207.935CALLAWAY
US 54 E AUDRAIN	207.935 245.283AUDRAIN
US 54 E HICKORY	59.715 90.244HICKORY
Click on row to select.	Cancel

#### Click the "Enter" button.



#### **Map Button**

#### M

- > Click the icon. A map will be displayed.
- Click on a roadway. If the roadway is not visible, use the "plus" or "minus" button to zoom in or out on the map.
- > A listing of the travelways in the area that were selected will be displayed.



#### Мар

RT M W (3977) Log: 0.043 RT MM N (3549) Log: 0.999 RT MM S (3548) Log: 2.781 RT ME (3976) Log: 5.957 CRD GAGEVILLE RD S (53184) Log: 3.263 CRD ROSS DR W (177035) Log: 0.848 CRD CROSS COUNTRY RD W (177071) Log: 0.235 CRD GAGEVILLE RD N (177069) Log: 2.463 CRD CENTRAL HILL RD S (53148) Log: 0.131 CRD ROSS DR E (53149) Log: 0.369 CRD CROSS COUNTRY RD E (53185) Log: 1.324 CRD CENTRAL HILL RD N (177034) Log: 2.003 PVT UNKNOWN N (966696) Log: 0 PVT UNKNOWN S (966451) Log: 0.19

None Selected	Cancel	Select

- Select a location.
- Click the "Select" button. This will flow to the new location on the ARAN Viewer.

×