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Traffic Count Database System User Guide

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2021

# Traffic Count Database System User Guide

Tennessee. Department of Transportation

MS2 Modern Traffic Analytics

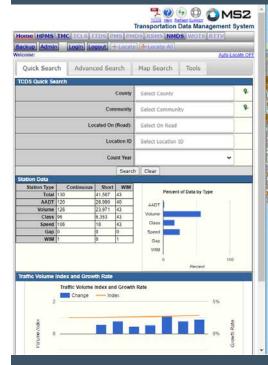
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# TRAFFIC COUNT DATABASE SYSTEM USER GUIDE





# Traffic Count User Guide – Public version





# Traffic Count Database System (TCDS) Documentation

Updated: December 2021

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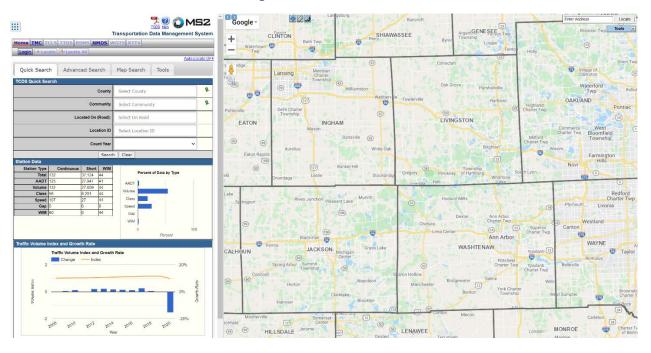


# Overview

The Traffic Count Database System (**TCDS**) module is a powerful tool for the traffic engineer or planner to organize an agency's traffic count data. It provides access to upload data from a traffic counter; view graphs, lists and reports of historic traffic count data; search for count data using either the database or the Google map; and print or export data to your desktop.

This guide is for users who are new to the **TCDS** system. Any features not discussed in this guide are considered advanced features. If there are further questions, feel free to explore the online help guide or contact the staff at MS2 for assistance. This guide will provide the user with the tools to carry out many common tasks such as:

- Searching for existing counts in the database
- Interacting with the map to obtain count information
- Creating reports of count details



#### Figure 1: TCDS Dashboard

This page *Figure 1* will always be the starting point. The *Home* button will return users to the main search page of the active module.

Note: this *is not* the browser's Home button, but rather the Home button for the module in use.

Start at the Home page to perform the following:

- Searching for existing counts
- Generating reports



# Searching

The TCDS Home page provides Quick Search, Advanced Search, Map Search, and Tools (Build Search). These search tools, displayed in *Figure 2*, allow the user to find the TCDS Stations (also called Locations or Locals) including current or previous counts in the system.

The **Quick Search** tab provides quick access to a handful of common search criteria that should handle most needs, including:

- County
- Community (e.g., City, Township, Village)
- Located On
- Location ID
- Count Year

The **Advanced Search** tab (*Figure 3*) provides access to a wider variety of search fields and provides the user with a higher degree of refinement than the **Quick Search** option.

The **Map Search** provides the user with a visual of the area in which to perform the search (within a community or along a mainline). **Map Search** tools allow for zooming to street level viewing to perform the search.

The Tools tab includes Build Search for users who are more familiar with the dataset.

Use the following steps in either the Quick Search or Advanced Search to practice both Search options:

 Go to the TCDS home page and enter search criteria in the County and Community fields. For convenience, the field performs an on-the-fly lookup to view and select from existing values. More fields can be included to perform a search (i.e. Located On for limiting to a specific road), or click the Search button to see the results.

#### Figure 2: Search Tools

Quick Search	Advanced Search	Map Search Tools	
TCDS Quick Search			
	County	Select County	8
	Community	Select Community	8
	Located On (Road):	Select On Road	
	Location ID	Select Location ID	
	Count Year	~	
	Search	Clear	



Quick Search Advanced Search Map Search Tools										
TCDS Advanced Search										
Se	arch Reset Search Load Search Ad-Hoc Rpts									
Search Maste	Search Master Locations Only									
Agency	ODC. Switch to This Agency									
Jurisdiction	~									
District	~									
County 🖗	New LINK New SPOT									
Community 🖗	Exact Match									
Location ID	Exact      Starts With      Ends With      Contains									
Туре	ALL V									
Located On <sup>1</sup>	Exact Match									
Route Type	ALL 🗸									
Route	Exact Match									
MPO ID	~									
Crossroad <sup>1</sup>	ALL  Exact Match									
From Road <sup>1</sup>	Exact Match									
To Road <sup>1</sup>	Exact Match									
LRS ID	Exact      Starts With      Ends With      Contains									
LRS Loc Pt	From To									
HPMS	Not Null									
ON HPMS	Not Null									
Screenline ID	ALL 🗸									
Geocoded?	ALL 🗸									
Virtual Station?	ALL 🗸									
Virtual Source?	ALL 🗸									
Perm Station?										
WIM Station?	Yes V									
Mega-Site?										
State Owned? Direction										
Fnct'l Class										
Rural/Urban										
Category Station Sensor										
Туре	~									
Days Since Last Count										
Check										

2. The user will be redirected to the search results **Form View** (*Figure 4*), showing the locations that meet the search criteria.



#### Figure 4: Search results

	e HPM	S TM	IC TO	LS TT	DS PI	MS PM	IDS	RSMS N	MDS V	VOTS	RTTV	
Backu	up Adn	nin	Logi	n Log	out -	Locate		Locate All			Ema	il This
									_	_		_
	Link   S	pot	_	_	_		_			_		
Velcom	ie:										Auto-Loc	ate OFI
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Li	ist View	1	All DIRs		Rep	ort Center	i s	ave Search		Hoc Rpts I Search		
	_			_			-		_	_		
Reco	ord He		291		▶ of:	295 Go	oto Re	cord	go	Loc	go	
Loc	ation ID	9876	Edit ID						М	PO ID		
	Type	SPOT								MS ID	7600062010	09
	On NHS	Yes	100000								No	
9	LRS ID F Group		JS0006			ARTERIA	1	•	LRS L	oc Pt. Type	10.52 US	
	F Group			ER_PRI		ARTERIA				Route	00062	
	F Group					ARTERI/		- i		Active	Yes	
	Dist Grp				_					egory	State Progra	im
	Clss Grp	URBAN	N_OTH	ER_PRI	ICIPAL_	ARTERIA	AL.	Þ				
WIN	M Group											
	C Group	Perm										
	t'l Class			Arterial					Mil	epost		
	ated On On Alias	US-62 550										
LOC	On Allas	550										
More D	etail 🕨											
		Edit	t ] [	Delete								
STATI	ION DAT	Δ										
517411		~		Add	1							
	_	_										
Jirecti	ons: 2	WAY	EB	WE								
					_ ~							
				2 1	_ ~							
AAD			1 2	2 1	2							Graph
	Year	AAI	1 2 DT	2 1 DHV-30	2 K		D %	PA		B(	c	Graph Src
<b>X</b>	Year 2019	17,5	1 2 DT 575	2 1 DHV-30 1,712	2 К 1	0	53	15,800 (	(90%)	1,775	C (10%)	
V X	Year 2019 2018	17,5 18,0	1 2 DT 575 017	DHV-30 1,712 1,745	2 K 1 1	0 0	53 55	15,800 ( 16,198 (	(90%) (90%)	1,775 1,819	C (10%) (10%)	
V X V X	Year 2019 2018 2017	17,5 18,0 18,6	1 2 DT 575 017 630	DHV-30 1,712 1,745 1,791	2 <b>K</b> 1 1 1	0 0 0	53 55 54	15,800 ( 16,198 ( 17,513 (	(90%) (90%) (94%)	1,775 1,819 1,117	C (10%) (10%) (6%)	
	Year 2019 2018 2017 2016	17,5 18,0 18,6 18,6	1 2 DT 575 017 630 630	DHV-30 1,712 1,745 1,791 1,795	2 <b>K</b> 1 1 1 1	0 0 0 0	53 55 54 58	15,800 ( 16,198 ( 17,513 ( 17,513 (	(90%) (90%) (94%) (94%)	1,775 1,819 1,117 1,117	C (10%) (10%) (6%) (6%)	
	Year 2019 2018 2017 2016 2015	17,5 18,0 18,6 18,6 18,7	1 2 DT 575 017 630 630 762	DHV-30 1,712 1,745 1,791	2 <b>K</b> 1 1 1	0 0 0 0	53 55 54	15,800 ( 16,198 ( 17,513 (	(90%) (90%) (94%) (94%)	1,775 1,819 1,117	C (10%) (10%) (6%) (6%)	
	Year 2019 2018 2017 2016 2015	17,5 18,0 18,6 18,6	1 2 DT 575 017 630 630 762 le	DHV-30 1,712 1,745 1,791 1,795 1,844	2 K 1 1 1 1 1	0 0 0 0	53 55 54 58	15,800 ( 16,198 ( 17,513 ( 17,513 (	(90%) (90%) (94%) (94%)	1,775 1,819 1,117 1,117	C (10%) (10%) (6%) (6%)	
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Y         X           Y         X	Year 2019 2018 2017 2016 2015 Edit < Edit Sun 6/6 Sun	17,5 18,0 18,6 18,6 18,7 18,7 18,7 18,7 18,7 18,7 18,7 18,7	1 2 DT 575 575 630 762 e >> Mode 4ADT 16 16 16 16 16 16 16 16 16	t         Top           t         1,712           1,745         1,745           1,791         1,795           1,844         1-5 of           1         5           1         5           1         5           1         1           1         5           1         1           <	2 K 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 PV status Status	53 55 54 58 55 PHV	15,800 16,198 17,513 17,513 17,636 WD PV VOLUME Year 2019 2018 2017 2016 2015 2014 2013 2012	(90%) (90%) (94%) (94%) (94%) (94%) PHV	1,775 1,819 1,117 1,117 1,117 1,126 <b>4</b> PV	C (10%) (10%) (6%) (6%) (6%) (6%) (6%) (6%) (6%) (6	Src

The upper portion of the Form View page displays some of the information about the Location including: ID, County, Community, Functional Class, and the road on which it is located. Click on the More Detail icon ▶ to view more Location information (*Figure 5*).

#### Figure 5: More Detail section

Less Detail 🔻							
County	Washtenaw	FIPS County Code					
Community	Milan	# Lanes	2				
Jurisdiction		Surface Type					
District		Count Cycle					
Control Section		Ctrl Section MP					
Perm Station	Yes	DOT ID					
WIM Station	No	Latitude 42.156914					
Virtual	No	Longitude	-83.678632				
Mega-Site	No	Speed Limit					
MPO		LTPP	No				
		State Owned	No				
Owner ID	ms2	Rural/Urban					
E	dit Delete						



Toward the bottom portion of the **Form View**, are **Annual Average Daily Totals** (**AADT's**), as well as the respective **Count** types (Volume, Class, Speed, Gap, etc.) that have been captured at this Location (see *Figure* **6**). These counts are displayed based on historical data collections by the agency.

Click on the eyeball link \* to the left of any of the count dates to see more detail about the count.

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#### Figure 6: AADT and: Counts



Figure 7 shows a record 1 of 10 that meet the search criteria.

- Click on the Next Record b button to see records 2, 3, etc. 3.
- 4. Or, click on the List View button shown in Figure 7 to view all ten records (Figure 8).

#### Figure 7: Results banner



The 10 records are now displayed for use in additional operations or reports.

Figure	8:	List	View
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Back

#### Search Criteria

Form View Export XLS

32 Re	32 Records Found Zexport Master Locations Only									
	<u>County</u>	<u>Community</u>	<u>On</u>	From	To	<u>At</u>	<u>Dir</u>	Latest		
<u>02-</u> 2209	Alger	-	M-28			White Fish Rd	2- WAY	2169		
<u>04-</u> 4029	Alpena	-	US-23			Werth Rd	2- WAY	4202		
<u>06-</u> 4249	Arenac	Arenac	US 23			Sterling Rd	2- WAY	7006		
<u>07-</u> 1369	Baraga	Baraga	US-41			Arnheim Rd	2- WAY	2719		
<u>09-</u> 9629	Вау	Bay City	LIBERTY BRIDGE			N Walnut St	2- WAY	11919		
<u>09-</u> 9669	Вау	BAY CITY	M-25 VETS BRIDGE			AT LINN ST	2- WAY	20581		
<u>13-</u> 9529	Calhoun	Battle Creek	I-94 BL (DICKMAN RD)			Forest St	2- WAY	11016		
<u>17-</u> 2189	Chippewa	-	M-28			Old Brimley Grade	2- WAY	959		
<u>18-</u> <u>3029</u>	Clare	-	M-115 (CADILLAC DR)			Lake Station Ave	2- WAY	6058		
<u>28-</u> <u>3039</u>	Grand Traverse	-	M-72			Williamsburg Rd	2- WAY	13583		
<u>28-</u> <u>3129</u>	Grand Traverse	-	M-37			US 31	2- WAY	12568		
<u>33-</u> 9020	Ingham	Lansing	I-96 BL (CEDAR ST)			E Mount Hope Ave	2- WAY	20008		
<u>33-</u> 9040	Ingham	Lansing	M-43			N Waverly Rd	2- WAY	16473		
<u>36-</u> 1049	Iron	-	US-2			Smokey Lake Rd	2- WAY	791		
<u>40-</u> <u>3079</u>	Kalkaska	Excelsior	M-72			County Road 571 NE	2- WAY	4898		
<u>41-</u> 9749	Kent	Grand Rapids	M-11 (28TH ST)			Madison Ave SE	2- WAY	33277		

5. Click the Form View button to return to the individual station search results.



6. Select the **Home** button and then click on the **Advanced Search** tab. This tab offers many additional fields (see *Figure 9*) to refine the search to find the exact **TCDS** Location(s).

OMS:	ICDS Help Refresh Support								
	Transportation Data Management System								
Home TSMS	TCLS TTDS PMS PMDS RSMS NMDS WOTS RTTV								
Backup Admi									
Welcome:	Auto-Locate OF								
Quick Sear	Quick Search Advanced Search Map Search Tools								
TCDS Advance	ed Search								
Se	earch Reset Search Load Search Ad-Hoc Rpts								
Search Maste	er Locations Only								
Agency	Demo 🗸 Switch to This Agency								
Jurisdiction	~								
District	~								
County &	New SPOT								
County 🌾									
Community 🌾	Exact Match								
Location ID	Exact O Starts With O Ends With O Contains								
Туре	SPOT								
Located On <sup>1</sup>	Exact Match								
Route Type									
Route	Exact Match								
MPO ID	×								
Crossroad <sup>1</sup>	ALL  Exact Match								
LRS ID	Exact O Starts With O Ends With O Contains								
LRS Loc Pt									
HPMS									
ON HPMS									
Screenline ID									
Geocoded?									
Virtual Station?	ALL 🗸								
Virtual Source?	ALL 🗸								
Perm Station?	ALL 🗸								
WIM Station?	ALL 🗸								
Mega-Site?	ALL 🗸								
State Owned? Direction									
Enct'l Class									
Rural/Urban									
Category									
Station Sensor									
Type	✓								
Volume	Min #         Max #         OR Select Year:           Most recent Volume/AADT count (e.g. 5000)         (Searches AADT Year too)								
Volume Trend	Min % Max % Select Year:								
	Annual growth rate of Volume (e.g. 5%) From To To								
Count Date <sup>2</sup>	(MM/DD/YYYY) (MM/DD/YYYY)								
Counts Needed	Since Count Due Year								
Sounds needed	(MM/DD/YYYY) - Locations not counted since this Check AADT Year								



As of Date	date Count expires (MM/DD/YYYY)			Cycle Length: of years between cou	number ints
	Use 'As of Date' in co			to find Locations whos	e most recent Count
	is older than the enter	ed numb	1	e As of Date.	
Count Cycle	Min		Max		
Import Date <sup>2</sup>		From (I	MM/DD/YYYY)		To (MM/DD/YYYY)
QC Error	ALL		~		
	~	Filter By	/ Volume	<b>~</b>	Owner
Volume Counts	>= Counted 💙	Filter by	Days Counted		Days Counted
volume Counts	~	Interval		~	Abnormal
	Min		) Max	~	Count Status
	~	Filter By	/ Class	~	Owner
	>= Counted 🗸	Filter by	Days Counted		Days Counted
Class Counts	>	Interval		~	Abnormal
	Min		Max	~	Count Status
	~	Filter By	/ Speed	~	Owner
			Days Counted		Days Counted
Speed Counts	~	Interval		~	Abnormal
	Min		Max	~	Count Status
	~	Filter By	/ Gap	~	Owner
			Days Counted		Days Counted
Gap Counts	>	Interval		~	Abnormal
	Min		Max	~	Count Status
	>	Filter By	WIM	~	Owner
WIM Counts	>= Counted 🗸	Filter by	Days Counted		Days Counted
	Min		) Max	~	Count Status
	~	Filter By	/ Partial		
Partial Counts <sup>2</sup>	~	Interval		· · ·	Owner
		From (I	MM/DD/YYYY)		To (MM/DD/YYYY)
AADT Counts	~	Filter By	AADT	~	Owner
Model Counts	>	Filter By	/ Model	~	Owner
Active	ALL 🖌	Filter By	/ Active	•	
Location Owner	>				
Location Note					
	In String OEx	act Mate	<b>b</b>		
Note Date		1	M/DD/YYYY)		
Recount		) - rom(n	and observery	IL	_ 10 (mm/20/1711)
Requested					
Se	arch Res	et Searc	h Load Se	arch Ad-Ho	c Rpts
<sup>1</sup> - Enter all or pa 'Ln".	art of the road name	. You ca	n exclude prefixes	and suffixes like "N	IW", "S", "Rd", "St",
- Enter either o	r both dates to sear	ch for re	cords within the ra	ange.	

The previous search fields discussed include: **County, Community** and **Located On**. Some of the additional search fields within the **Advanced Search** include: **From Road**, **To Road**, **Direction**, **Jurisdiction**, **Functional Class**, **Permanent Stations**, and more.

For example, if the **Location ID** is available, enter it into the **Location ID** field. If the exact location ID is not available, select one of these options: "Starts With", "Ends With" or "Contains".

Other criteria that relate to the counts themselves can be used as opposed to the **TCDS** Locations. For example, enter a date range for counts (e.g., From Date and To Date) to find counts within that time period. Enter minimum and maximum values for counts or search for **TCDS** Locations that do (or do not) contain volume, class, speed, gap, or WIM counts.

7. Enter additional search criteria and click the **Search** button to see how the search results change.



- 8. From the search results page, click the **Home** button to return to the search page to perform additional searches.
- 9. To clear any previous criteria and start fresh, click the **Reset Search** button.

## Notes

Notes provide a valuable option to store information or documents about the station. View notes or files associated with this Location at the bottom of the page (*Figure 10*). Public users will only see notes that have been made visible by the agency.

#### Figure 10: Notes field

NOTES/FILES								
	Note	Date						
	Polar Vortex weather event in Michigan. January 28th through January 31st.	2/4/2019						



# **Map Interactions**

The Google Maps<sup>™</sup> interface is already familiar to many users. The Google map integrated into the right side of your **TCDS** screen provides you with a geographic interface to access your Count information:

- Zoom the map in and out
- Switch between map, satellite, and hybrid views
- Use the Google Street View™ option
- View count locations on the map
- Pull up count location details from the map

Figure 11 shows the map portion of the screen after logging in:

#### Ε G Creek Enter Address Locate Map Η Α Blackman Marshall 94 Grass La Charter T Tools Albion Jackson General В Spring Arbor Portage 66 Google Homer TCDS 60 Vicksburg (99) Brooklyn Tekonsha TMC (12) (131) 66 69 Tecum Manitou Jonesville С Beach-Devils Colon ee Rivers Lake Coldwater Hillsdale Ca Adrian D Bronson Madison Hudson Constantine Charter Twp Reading (127) (12) Sturgis Clear Lake tol Howe 90 (49) Pioneer 20) 203 Shipshewana

#### Figure 11: Map view

- A Map overlays
- B Zoom control
- C Pegman (street view)
- D Zoom control
- E Reset button
- F Measure
- G Print button
- H Address search
- I Tools menu



# Google Map Look and Feel

#### Map Overlays

The Map Overlays (A) dropdown in the upper left corner of the map provides the following options: Map, Satellite, Hybrid, Terrain, Earth, and GIS Only maps. The example above uses the default Map.

#### Zooming

One of the zoom functions (B) is the "+" or "-" buttons which controls the zoom of the map either in or out. Another option for zooming in to a particular rectangular area of the map is by clicking on the magnifying glass button (D) then clicking and dragging to draw a rectangular zoom area on the map. Release the mouse button to zoom and center the map on the drawn area.

#### Street View

Click and drag the pegman (C) to the desired section on the map to see a street level view. Street View is not available in all areas.

#### Reset View

Click (E) to zoom the map back to its default position.

#### Measure

Click to enable the measure tool (F). Click on the map to start a linear measurement. Click again to add vertices. Double-click to end the measurement and a pop-up will display the approximate distance (in feet, meters, and miles).

Print

Click (G) to print the current view of the map.

#### Locate Address

Type an address into the search box (H). Click the Locate button to the right of the address entry box to pan and zoom the map to that address.

#### Tools menu

Click on any of the Tools menu (I) options to view or select additional actions to perform on the map.

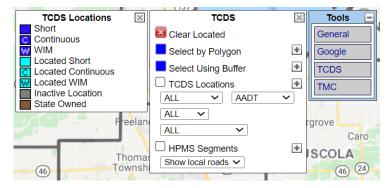


## Map Tools and Layers

Underneath the **Locate Address** tool is the **Tools** menu.

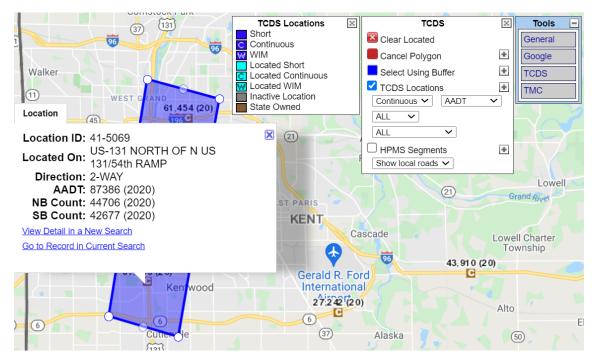
- Click the "+" button to reveal the Tools menu options. The options available depend on the modules licensed by the agency.
- 2. Click on the TCDS option (Figure 12).
- Click the "+" button to the right of the TCDS Locations option to display the TCDS Locations legend.

Figure 12: Map Tools



#### TCDS Locations

Click the checkbox next to the **TCDS** Locations option to show all the **TCDS** Locations that exist within the displayed map boundary (may take a few seconds). **TCDS** location icons will appear on the map.



#### Figure 13: View of Location pop-up

Above each **TCDS** Location is a pop-up (*Figure 13*) that provides information on the most recent count(s), as well as the year the count was collected in parentheses.

Click on any of the **TCDS** Locations to access the location information. To view even more details about a particular Location, click the **View Detail** link. The database side (left side) of the screen will display the **Form View** details – like performing a database search for that particular location.



Within the pop-up there is a tab, **Location**, which includes: Location ID, Location (road), Direction (in the system), AADT and Directional counts. Links to access additional details are also provided.

Location	1	5	
Location ID: 25-62	69 AT JENNINGS		×
Located On: OVER TWP			
Direction: 2-WA AADT: 17991	(2020)		
EB Count: 9176 WB Count: 8664			
View Detail in a New Sea Go to Record in Current			-
t Johns	GERESEE	LAPEER	у

#### Select by Polygon

Activate the **Select by Polygon** tool by clicking the checkbox in the **TCDS** menu (*Figure 13*). While the tool is active, the icon will be colored red. Use the following steps to create a polygon with the **Select by Polygon** tool:

- 1. Click on the map to create a starting point for your polygon.
- 2. Continue clicking to select as many additional points as needed.

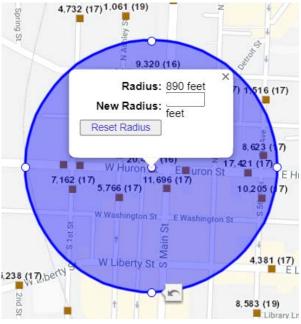
Click on the starting point to close the polygon (see photo above). The shaded polygon will be completed, and the left side of the screen will load the **Build Search** page.

#### Select by Buffer

The **Select by Buffer** tool (*Figure 14*), operates in a similar manner to the **Select by Polygon** tool. It creates a circular region on the map using the following steps:

- 1. Clicking on the map to create the center point of the circular region.
- 2. Move the mouse to the desired radius and a shaded circle will be created.
- 3. Click to set the radius. A pop-up will display the radius (in feet) of the area specified.
- The shaded circular area will be completed, and the left side of the screen will load the **Build Search** page to further refine the search results within the circle.
- (Optionally) Reset the radius to a different value by typing it into the New Radius box and clicking the Reset Radius button.







#### Build Search

When the **Build Search** menu appears (*Figure 15*), there will be an option to further refine the search or simply click the **Search** button. This will perform a search for all the **TCDS** Locations within the polygon or circle created.

#### Figure 15: Build Search tool

Build Search		
Enter search criteria below. The	en cl	ick the "Search" button.
Select Search Field	~	
Select Search Field	<	
Select Search Field	~	
Select Search Field	<	
Select Search Field	~	
Select Search Field	<	
Select Search Field	*	
Select Search Field	~	
Select Search Field	<	
Select Search Field	~	
Select Search Field	<	
Select Search Field	~	
		Search Master Locations Only 😵
	Sea	rch Home Reset Admin



# Home Page button functionality

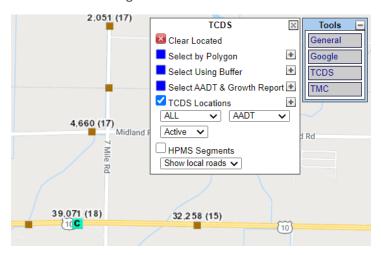
#### Locate & Locate All

On the Home page (see *Figure 16*), there are two buttons that can be used to identify the station(s) generated from the query.

#### Figure 16: Home banner

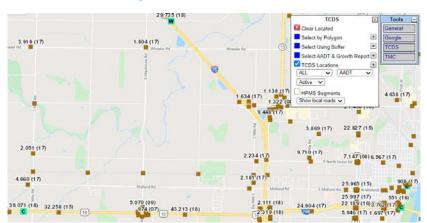


On the **Form View** page after performing a search, click on the **Locate** button in the toolbar to zoom the map to the current **TCDS** location under review. As shown in *Figure* 17, the location is highlighted in cyan blue.



#### Figure 17: Located station

Use the Locate All button to zoom and center the map on all the stations included in the search results (*Figure 18*). The located icons will be shown using a different color than the non-located icons. The Auto-Locate OFF link triggers the map to display or not display the locations upon completing a search.



#### Figure 18: All Located stations



#### Email This

The **Email This** button acts another save option and allows the current user to send the link of a completed search result to a different user. This will allow the second user to view the result without having to perform the search.

Note: This button will only appear after the search is completed.

8											TCD	S Locat	ion Li	nk - N	lessag	e (HTM	IL)								œ		۵	×
File	Messag	je Insert	Options		at Text		view	He	1922		be PC				me wh				ło									
6 -	<b>S</b>	Calibri	~ 11	~ E	<b>B</b> I	U	R	~	A	*	Ξ.	- 13	÷	€Ξ	<u>ə</u> E		ي م	2	<u>8</u> 9	0 -	¢	~	2-	$\downarrow$	<b>Po</b> ~	2.		~
		То																										
Send	i	Cc																										
		Subject T	CDS Location	Link																								

Follow the link below to view the location.

Note: If you are prompted to login, then login and click this link again with your browser still open. http://www.ms2soft.com/tcds/?loc=Mdot&mod=tcds&local\_id=02-2209

Record K	1 Def 1 Goto Record	go	
Location ID	02-2209	MPO ID	
Туре	SPOT	HPMS ID	Multiple
On NHS	Yes	On HPMS	Yes
LRS ID	1138809	LRS Loc Pt.	2.107
SF Group	Rural North	Route Type	2
AF Group	North	Route	28
GF Group	Rural North	Active	Yes
Class Dist Grp	2_028_007	Category	Primary
Seas Clss Grp			
WIM Group			
QC Group	Perm		
Fnct'l Class	(3) Other Principal Arterial	Milepost	
Located On	M-28		
Loc On Alias			
EASTOF	White Fish Rd		
More Detail 🕨			
STATION DAT	rA		Show Data
Directions: 2	-WAY EB WB 🕡		

AADT	0							
	Year	AADT	DHV-30	K %	D %	PA	BC	Src
	2020	3,302	570	17	59	3,117 (94%)	185 (6%)	
	2019	3,651	599	16	64	3,476 (95%)	175 (5%)	
	2018	3,594	562	16	64	3,421 (95%)	173 (5%)	
	2017	3,569	546	16	52	3,377 (95%)	192 (5%)	
	2016	3,520		16	52	3,311 (94%)	209 (6%)	MDOT
<<	<	> >>	1-5 of 1	1				

1 1



# Reports

MS2's Transportation Data Management System (TDMS) provides a wide range of report generating capabilities. In the **TCDS** module, there are four different report categories available to authenticated users (users who have logged into the system with their username and password):

- Single station, single day reports
- Single station, multiple day reports
- Multiple station, multiple day reports
- Report Center reports

The following section describes how to find each of the report categories, followed by examples of the respective report types.

## **MS2** Reports

MS2 reports are based upon a "search first" methodology. First, search for the station or stations to be included in the report, then choose the desired report. *Figure 19* shows the criteria of a TCDS Quick Search using the following fields: County, Community and Count Year. The Advanced Search, Map Search, or Tools tabs provide additional search capabilities or features.

Quick Search Advanced Search	Map Search Tools
TCDS Quick Search	
County	Wayne 🗣
Community	Detroit 🗣
Located On (Road):	Select On Road
Location ID	Select Location ID
Count Year	2018 🗸
Search	n Clear

#### Figure 19: Search Tool tabs

After executing a search, the results page defaults to the **Form View**. This displays the data from each of the stations in the results set, one at a time.

The photo below displays the access point to the respective report types: Single station, Single day report (A) and Report Center (B). Additional information is provided in subsequent sections.



Figure	20:	Form	View
inguic	20.	101111	VICVV

Reco	ord Hee	1	▶ F	of	1 Goto Rec	ord	go		
Loc	ation ID	02-2209					MPO	D	
	Type	SPOT				-	HPMS	0 Multiple	
	On NHS	Yes				-	On HPM	\$ Yes	
	LRSID	1138809					LRS Loc P	£ 2.107	
5	F Group	Rural North				•	Route Typ	• 2	
A	F Group	North				•	Rou	28	
0	Fareup	Rural North				•	Activ	• Yes	
lass	Dist Grp	2_028_007				•	Catego	y Primary	í
	Clas Grp					1			
WI	d Group					-			
Q	C Group	Perm							
Fnc	ri Class	(3) Other Priz	icipal Arter	al			Milepo	15	
Los	ated On	M-28							
Loc	On Allas								
		White Fish R	đ						
lore D	etai 🕨								
	ION DAT	WAY EB	WB 🕑						Show Data
irecti	ons: 🖪	WAY EB	1						
recti	ons: 🔹 T 🕐 Year	AADT	1 DHV-30	K	the survey of the second s	PA		BC	Show Data
recti	ons: 2 Year 2020	AADT 3,302	1 DHV-30 570	17	59	3,117 (9	and the second se	5 (6%)	
recti	ons: 2 Year 2020 2019	AADT 3,302 3,651	1 DHV-30 570 599	17	59 64	3,117 (9	95%) 17	5 (6%) 5 (5%)	
recti	ons: Year 2020 2019 2018	AADT 3,302 3,651 3,594	1 DHV-30 570 599 562	17	59 64 64	3,117 (9 3,476 (9 3,421 (9	(5%) 17 (5%) 17	5 (6%) 5 (5%) 3 (5%)	
irecti	ons: Year 2020 2019 2018 2017	AADT 3,302 3,651 3,594 3,569	1 DHV-30 570 599	17	59 64 64 64 52	3,117 (9 3,476 (9 3,421 (9 3,377 (9	05%) 17 05%) 17 05%) 19	5 (6%) 5 (5%) 3 (5%) 2 (5%)	Sire
irecti	ons: Year 2020 2019 2018	AADT 3,302 3,651 3,594 3,569 3,520	1 DHV-30 570 599 562 546	87 56 16 16	59 64 64 64 52	3,117 (9 3,476 (9 3,421 (9	05%) 17 05%) 17 05%) 19	5 (6%) 5 (5%) 3 (5%)	
irecti	ons: Year 2020 2019 2018 2017	AADT 3,302 3,651 3,594 3,569	1 DHV-30 570 599 562	87 56 16 16	59 64 64 64 52	3,117 (9 3,476 (9 3,421 (9 3,377 (9	05%) 17 05%) 17 05%) 19	5 (6%) 5 (5%) 3 (5%) 2 (5%)	Sire
AAD	ons: Year 2020 2019 2018 2017	AADT 3,302 3,651 3,594 3,569 3,520 > >>	1 DHV-30 570 599 562 546	17 16 16 16 16	7 59 5 64 5 64 5 52 5 52	3,117 (9 3,476 (9 3,421 (9 3,377 (9	95%) 17 95%) 17 95%) 19 95%) 19 4%) 20	5 (6%) 5 (5%) 3 (5%) 2 (5%)	Sire
AAD AAD	ons: 2 Year 2020 2019 2018 2017 2016 < 2 ME COU	AADT 3,302 3,651 3,594 3,594 3,520 > [>>] NT Date	1 DHV-30 570 599 562 546 1-5 of	17) 16 16 16 16 11	7 59 6 64 8 64 8 52 8 52 750al	3,117 () 3,476 () 3,421 () 3,377 () 3,311 () VOLUME 1 Year	15%) 17 15%) 17 15%) 18 15%) 18 14%) 20 TREND	5 (6%) 5 (5%) 3 (5%) 2 (5%) 9 (6%)	Sre MDOT
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AAD	0015: 20 Year 2020 2018 2018 2017 2016 < [ ME COU MARK COU	AADT 3,302 3,651 3,594 3,594 3,594 3,594 3,594 3,594 3,594 3,594 3,594 1,227202 1,122720 1,12	1 DHV-30 570 589 562 546 1-5 of	11 16 16 16 16 11 11 11 10 11	59         50           3         64           5         64           3         52           5         52           79tal         52           1.157         1.925           3.153         3.153	3,117 (9 3,476 (5 3,421 (6 3,377 (5 3,311 (9 VOLUME 1 Year 2020 2019 2018 2017	15%) 17 15%) 17 15%) 18 15%) 18 14%) 20 TREND	5 (8%) 5 (5%) 3 (5%) 2 (5%) 9 (6%) 9 (6%) -10% -10% -10% -11%	Sre MDOT
AAD AAD	Year           2020           2019           2018           2017           2016           <	AADT 3,302 3,651 3,594 3,599 3,520 > >> NT Date 012/27/202 12/27/20	1 DHV-30 570 509 562 546 1-5 of 1 1-5 of	11 16 16 16 16 11 11 11 11 11	59           3         64           3         64           3         52           3         52           3         52           3         52           3         52           3         52           3         52           3         52           3         52           3         52           3         52	3,117 (0 3,476 (5 3,421 (5 3,377 (5 3,311 (0 <b>VOLUME 1</b> <b>Year</b> 2020 2019 2018 2017 2016	15%) 17 15%) 17 15%) 18 15%) 18 14%) 20 TREND	5 (6%) 5 (5%) 3 (5%) 2 (5%) 9 (6%) 9 (6%) 9 (6%) -10% -10% 2% 1% 1% 7%	Sre MDOT
AAD AAD NOLU	Year           2020           2019           2018           2017           2016           <	WAY         EB           1         1           3,302         3,651           3,594         3,569           3,520         >           >         >>           NT         Date           Date         1           922/2021         12/25/2021           N 12/22/2022         12/22/2022           M 12/22/2022         12/22/2022           M 12/22/2022         12/22/2022           M 12/22/2022         12/22/2022           M 12/22/2022         12/22/2022	DHV-30 570 509 562 546 1.5 of	117 116 116 117 117 117 117 117 117 117	59         64           3         64           3         64           3         52           5         52           7         528           3,163         2.812           2,170	3,117 (5 3,476 (5 3,421 (5 3,377 (5 3,311 (5 3,311 (5 <b>VOLUME 1</b> <b>Year</b> 2020 2019 2018 2017 2016 2015	15%) 17 15%) 17 15%) 18 15%) 18 14%) 20 TREND	5 (6%) 5 (5%) 3 (5%) 2 (5%) 9 (6%) 9 (6%) 9 (6%) -10% -10% -2% 1% 1% 1% 1% 1% 1%	Sre MDOT
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Inecti AAAD AAAD AAAD AAAD AAAD AAAD AAAD AA	Year           2020           2019           2018           2017           2016              ME COU           MR           St           Tr           W           St           MK           St	WAY         EB           1         3,002           3,651         3,659           3,594         3,569           3,594         3,569           3,520         >           >         >>           Date         Date           Date         112/27/202           H 12/25/202         112/22/202           H 12/25/202         112/2/202           H 12/25/202         112/2/202           H 12/25/202         112/2/202	1 DHV-30 570 562 546 1-5 of 1 1 1 1 1 1 1	11 10 10 10 10 10 10 10 10 10	7         59           6         64           8         64           9         5.22           3         52           79681         2.169           1.1528         3.163           2.179         2.2703           2.703         2.703	3,117 (5 3,476 (5 3,421 (5 3,377 (5 3,311 (5 3,311 (5 <b>VOLUME 1</b> <b>Year</b> 2020 2019 2018 2017 2016 2015	15%) 17 15%) 17 15%) 18 15%) 18 14%) 20 TREND	5 (6%) 5 (5%) 3 (5%) 2 (5%) 9 (6%) 9 (6%) 9 (6%) -10% -10% -2% 1% 1% 1% 1% 1% 1%	Sre MDOT
AAD AAD AAD	Year           2020           2019           2018           2017           2018           2017           2018           2017           2018           2017           2018           2017           2018           2017           2018           2017           2018           35           5           5	WAY         EB           1         1           3,302         3,551           3,559         3,559           3,550         >           >         >           01         22520           NT         Date           01 12/25/202         12/25/202           12/25/202         12/25/202           12/25/202         12/25/202           12/25/202         12/25/202	1 DHV-30 570 562 546 1-5 of 1 1 1 1 1 1 1	117 116 116 117 117 117 117 117 117 117	59         64           5         64           5         52           5         52           5         52           7         52           7         52           5         52           7         52           7         52           7         52           7         52           7         53	3,117 (5 3,476 (5 3,421 (5 3,377 (5 3,311 (5 3,311 (5 3,311 (5 2020 2019 2018 2017 2018 2017 2015 2015 2014	15%) 17 15%) 17 15%) 18 15%) 18 14%) 20 TREND	5 (6%) 5 (5%) 3 (5%) 2 (5%) 9 (6%) 9 (6%) -10% -10% -10% -10% -10% -10% -11% -1% -1% -1% -1% -1% -1% -1% -1% -	Sre MDOT

#### Single Station, Single Day Reports

A

**Single Station, Single Day** reports are accessed via the search results **Form View** page (*Figure 20*). Click on the "eyeball" graphic (A) for the day of data needed. One of the sections, Volume Count, (*Figure 21*) is shown at the right.

Different **Single Station**, **Single Day** reports will be available depending on the type of data collected at a station. The most common report types are: Volume Count Report, Classification Report, Speed Report, and WIM Report. In some places, a Per-Vehicle Report is also available.

In addition to the default tabular report view, several of the reports include additional views available at the bottom of the

page including: View Calendar, Bar Graph, Line Graph, tabular options (e.g. Weekly Report, Hourly Volume by Lane), and several MS Excel export options.

Α

The following samples display Single Station, Single Day report types: Figure 22, Figure 23, Figure 24 & Figure 25.

#### Figure 21: Volume Count section

V	LUME COUNT		0	Graphs/Rpts
	Date	Int	Total	Status
- *	Tue 8/6/2019	15	3,844	<ul> <li>Image: A start of the start of</li></ul>
*	Mon 8/5/2019	15	3,840	✓
-	Tue 6/24/2014	60	3,067	✓
-	Mon 6/23/2014	60	2,997	✓
-	Tue 10/15/2013	60	3,539	✓
-	Mon 10/14/2013	60	3,604	<b>√</b>
-	Tue 6/14/2011	60	3,042	<ul> <li>Image: A start of the start of</li></ul>
-10	Mon 6/13/2011	60	3,016	<ul> <li>Image: A start of the start of</li></ul>
-	Tue 4/24/2007	60	2,877	<b>√</b>
-	Mon 4/23/2007	60	2,722	<b>√</b>
	<<  > >>	1-1	0 of 14	
	mm/dd/yyyy	ום	o Date	
_	Create	Flag	/Unflag E	dit Multiple
Œ			E	Export Totals



#### Figure 22: Volume Count Report

#### Volume Count Report

LOCATION INF	-0
Location ID	01011
Туре	SPOT
Fnct'l Class	1
Located On	OLD OREGON TRAIL NO. 6
Loc On Alias	006
SOUTH OF	UnionBaker County Line [0.45 miles]
Direction	2-WAY
County	Baker
Community	-
MPO ID	
HPMS ID	
Agency	ODOT

COUNT DATA INF	• <b>0</b>
Count Status	Accepted
Start Date	Thu 12/31/2020
End Date	Fri 1/1/2021
Start Time	12:00:00 AM
End Time	12:00:00 AM
Direction	2-WAY
Notes	
Station	00000012713
Study	
Speed Limit	
Description	
Sensor Type	ATR Class
Source	CombineVolumeCountsIncremental
Latitude,Longitude	

INTERVAL:60-N	
Time	Hourly Count
(b) 0:00-1:00	94
1:00-2:00	108
2:00-3:00	96
3:00-4:00	95
4:00-5:00	141
5:00-6:00	149
6:00-7:00	194
7:00-8:00	306
8:00-9:00	465
9:00-10:00	459
10:00-11:00	609
11:00-12:00	576
12:00-13:00	721
13:00-14:00	698
14:00-15:00	678
15:00-16:00	630
16:00-17:00	513
17:00-18:00	424
18:00-19:00	342
19:00-20:00	242
20:00-21:00	196
21:00-22:00	138
22:00-23:00	116
23:00-24:00 📵	105
Total	8,095
AM Peak	10:00-11:00 609
PM Peak	12:00-13:00 721

 Count Navigation:
 Image: Count Type:
 VOLUME

 Directions:
 2-WAY
 EB
 WB
 Image: Count Type:
 VOLUME

 Directions:
 2-WAY
 EB
 WB
 Image: Count Type:
 VOLUME
 VOLUME

 View Calendar
 View in Excel
 Bar Graph
 Image: Count Type:
 Volume
 Volume

 View Calendar
 View in Excel
 Bar Graph
 View Calendar
 Monthly
 Hourly Volume



# **DMS2**

#### Figure 23: Classification Report

Classificat	tion Report							
Location ID	01011	Located On	OLD OREGON TRAIL NO. 6	County	Baker			
Counted By	TCDS_Combined	SOUTH OF	UnionBaker County Line [0.45 miles]	Community	-			
Start Date	Thu 12/31/2020	Loc On Alias	006	Station	00000012713			
Start Time	12:00:00 AM	Direction	2-WAY	Agency	ODOT			
Source	Syst_Combine	Sensor Type	ATR Class					
Axle Factor		Count Status	Accepted					
Directions: 2-WAY EB WB (2)								

1 2 1 2

unt Navigat	tion: <	> >>							С	ou	nt	Ту	ре	: 0	LASS	
ssification	- Vehicle	Length	(feet)													
Start Time	0-20	20-35	35-61	61-150	150+											TOTA
12:00 AM	22	9	3	60	0	0	0	0	0	0	0	0	0	0	0	94
1:00 AM	24	10	11	63	0	0	0	0	0	0	0	0	0	0	0	108
2:00 AM	26	4	9	57	0	0	0	0	0	0	0	0	0	0	0	96
3:00 AM	14	12	6	63	0	0	0	0	0	0	0	0	0	0	0	95
4:00 AM	29	9	7	96	0	0	0	0	0	0	0	0	0	0	0	141
5:00 AM	42	17	8	82	0	0	0	0	0	0	0	0	0	0	0	149
6:00 AM	53	20	14	107	0	0	0	0	0	0	0	0	0	0	0	194
7:00 AM	99	43	8	156	0	0	0	0	0	0	0	0	0	0	0	306
8:00 AM	164	67	21	213	0	0	0	0	0	0	0	0	0	0	0	465
9:00 AM	202	74	14	169	0	0	0	0	0	0	0	0	0	0	0	459
10:00 AM	324	69	37	179	0	0	0	0	0	0	0	0	0	0	0	609
11:00 AM	307	83	36	150	0	0	0	0	0	0	0	0	0	0	0	576
12:00 PM	392	116	28	185	0	0	0	0	0	0	0	0	0	0	0	721
1:00 PM	364	99	19	216	0	0	0	0	0	0	0	0	0	0	0	698
2:00 PM	363	99	27	189	0	0	0	0	0	0	0	0	0	0	0	678
3:00 PM	299	101	19	211	0	0	0	0	0	0	0	0	0	0	0	630
4:00 PM	242	74	28	169	0	0	0	0	0	0	0	0	0	0	0	513
5:00 PM	202	58	21	143	0	0	0	0	0	0	0	0	0	0	0	424
6:00 PM	136	39	13	154	0	0	0	0	0	0	0	0	0	0	0	342
7:00 PM	100	18	14	110	0	0	0	0	0	0	0	0	0	0	0	242
8:00 PM	73	20	8	95	0	0	0	0	0	0	0	0	0	0	0	196
9:00 PM	57	8	3	70	0	0	0	0	0	0	0	0	0	0	0	138
10:00 PM	41	7	2	66	0	0	0	0	0	0	0	0	0	0	0	116
11:00 PM	34	8	3	60	0	0	0	0	0	0	0	0	0	0	0	105
TOTAL	3609	1064	359	3063	0	0	0	0	0	0	0	0	0	0	0	8095

Count Navigation: << > >>









Line Graph



View in Excel

<u>Monthly</u> <u>Report</u>



#### Figure 24: Speed Report

Speed R	epo	ort														
Location	ID	01011			Locat	ed On	OLD	OREG	ON TR		D. 6		Cour	nty E	Baker	
Counted	Ву	TCDS_	Comb	ined	SOUT	TH OF	Unior miles		Count	y Line	[0.45	Co	mmun	ity -		
Start D	ate	Thu 12	/31/20	20	L	oc On Alias	006						Stati	<b>on</b> 0	000000012713	
Start Ti	me	12:00:0	00 AM		Dire	ection	2-WA	Y					Agen	cy (	DOT	
Sou	rce	Syst_C	ombin	е	Sensor	r Туре	ATR (	Class								
85% Spe		75	Count Status				Acce	Accepted					Pa Spe		65 - 75	
Directions: 2-WAY EB WB 2 1 2 1 2																
Count Na	aviga	ation:	<<	<	> :	>>						Co	unt Ty	/pe:	SPEE	D V
Speed Ra	ange	e (mph	1)													
Start Time	0- 20	20- 25	25- 30	30- 35	35- 40	40- 45	45- 50	50- 55	55- 60	60- 65	65- 70	70- 75	75- 80	80- 85	185+	TOTAL
12:00 AM	0	0	0	0	0	1	4	7	14	26	31	8	3	0	0	94
1:00 AM	0	1	0	1	2	6	5	8	25	34	19	6	1	0	0	108
2:00 AM	0	0	0	1	2	12	8	15	20	19	17	2	0	0	0	96
3:00 AM	0	0	0	0	1	2	3	3	22	35	20	5	4	0	0	95
4:00 AM	0	0	0	1	1	9	10	22	28	36	25	6	2	1	0	141
5:00 AM	0	0	1	1	4	17	39	26	35	14	6	4	2	0	0	149
6:00 AM	0	0	1	2	12	18	25	51	42	28	11	3	1	0	0	194
7:00 AM	0	1	0	0	0	8	28	57	68	73	52	15	4	0	0	306
8:00 AM	0	0	0	0	0	7	18	69	85	98	92	62	28	5	1	465
9:00 AM	0	0	0	0	0	0	8	12	49	94	145	99	40	8	4	459
10:00 AM	0	0	0	0	0	0	4	5	27	101	173	161	104	25	9	609
11:00 AM	0	0	0	0	0	1	0	4	17	69	171	173	112	21	8	576
12:00 PM	0	0	0	0	0	0	2	2	13	77	195	218	160	43		721
1:00 PM	0	0	0	0	0	0	0	0	7	88	176	233	137	47	10	698
2:00 PM	0	0	0	0	0	0	1	0	7	81	169	207	168	33	12	678
3:00 PM	0	0	0	0	0	0	0	1	5	74	190	204	115	35	-	630
4:00 PM	0	0	0	0	0	0	0	3	16	71	184	150	74	12	-	513
5:00 PM	1	0	0	0	0	0	5	6	23	78	126	121	50	13	1	424
6:00 PM	0	0	0	0	0	1	0	9	19	74	108	74	43	11	3	342
7:00 PM	0	0	0	0	0	1	4	7	13 9	41 32	80	54	32 19	8	2	242
8:00 PM 9:00 PM	0	0	0	0	0	1	0	3 2	9 10	32 23	66 54	60 33	19 8	5	2	196 138
9:00 PM 10:00 PM	0	0	0	0	1	1	0	2	10	23 34	54 39	33 21	8	5	2	138
10:00 PM 11:00 PM	0	0	0	0	0	0	0	2	4 9	34 24	39 36	21	9	4	0	116
TT.00 PIVI	0	0	0	0	U	0	0	L _	9	24	- 30	22	9	5	0	105

#### Count Navigation: << > >

2



TOTAL

1



2

6



23





View in Excel

<u>Monthly</u> <u>Report</u>

84 165 316 567 1324 2185 1941 1125 279 75 8095





#### Figure 25: WIM Report

WIM Location								
Location ID	100082	On Road	US-50					
County	Vinton	At						
Community	Ratcliffburg	On Road Alias	788					
Dir	2-WAY	From Road						
Start Date	06/12/2020	To Road						
Start Time 00:00 Count Status Accepted V								
Owner         ODOTAuto         Filename         00000000788-20200612.csv								
Directions: 2	-WAY EB WB	0						
Date Navigati	ion			Count Navigation				
<<	< > [	>>  620 of 622	Dates	Count Type: WIM 🗸				
GRAPH/REPO	ORT OPTIONS							
Hrly GVW Avg	GVW	Axle Load	Veh. Speed	Veh. Wgt.     Raw Data       ALL     ALL				

<<		>		>>  ]1	- 25 0	f 405	Jum	o To:	12	AM •	~	Pag	e Siz	:e: 2	5 '	~	
Per-Vehicl	e Ra	aw (	Data	3													
Row Format nvalid Vehicl Warning Flag Overweight	e																
Time	Err	Dir	Ln	Class	Speed	GVW	Axles	Wgt A	Spc AB	Wgt B	Spc BC	Wgt C	Spc CD	Wgt D	Spc DE	Wgt E	Spc EF
12:14:22 AM		WB	1	08	57	46.8	4	13.0	19.8	11.0	4.2	9.5	39.0	13.4			
12:29:41 AM		WB	1	09	49	34.7	5	10.5	16.6	6.7	4.3	6.5	36.6	5.8	4.0	5.2	
1:33 AM		WB	1	09	54	58.7	5	13.3	16.6	12.7	4.2	12.8	33.7	10.4	4.0	9.5	
1:36:52 AM		WB	1	09	57	30.5	5	10.0	16.5	5.0	4.2	4.9	31.9	5.0	4.1	5.7	
1:39:20 AM		EB	1	06	68	15.8	3	7.3	17.1	4.3	4.6	4.3					
1:41:26 AM	×	EB	1		0	0.0	0										
2:27:44 AM		WB	1	09	56	64.8	5	11.3	17.3	14.2	4.2	13.1	32.0	13.3	4.0	13.0	
2:49:19 AM		WB	1	09	54	71.6	5	10.3	19.3	15.9	4.2	14.4	30.1	16.5	9.9	14.6	
2:56:29 AM		EB	1	05	53	8.1	2	5.2	12.9	2.9							
3:22:04 AM		EB	1	05	48	9.2	2	4.8	13.7	4.4							
3:23:06 AM		WB	1	09	55	99.6	5	13.3	16.7	24.6	4.3	22.6	31.4	20.1	4.0	19.0	
3:32:22 AM		WB	1	09	59	86.2	5	11.1	19.3	19.8	4.3	18.4	30.5	18.3	4.3	18.5	
3:33:42 AM		WB	1	09	44	61.0	5	11.9	16.8	13.9	4.2	14.0	33.7	10.5	4.0	10.8	
3:36:57 AM		WB	1	09	54	67.1	5	12.8	17.2	13.2	4.3	12.4	27.9	14.5	4.0	14.3	
4:15:52 AM		WB	1	05	69	8.0	2	4.3	13.1	3.7							
4:18:22 AM		WB	1	09	53	35.6	5	11.8	16.6	6.1	4.2	5.8	32.2	6.0	3.9	5.9	
4:29:06 AM		EB	1	09	60	32.1	5	9.6	16.7	7.2	4.3	6.2	31.5	4.8	4.0	4.3	
4:49:52 AM	X	WB	1		0	0.0	0										
5:08:51 AM		WB	1	08	59	27.2	3	9.7	13.8		21.3	7.5					
5:13:47 AM		WB	1	05	60	27.3	2	11.7	15.8	15.6							
5:16:26 AM		WB	1	09	53	82.2	5	10.6	16.6	20.6	4.2	19.0	28.3	16.1	4.0	15.9	
5:22:37 AM		WB	1	09	49	37.0	5	11.0	16.6	7.1	4.1	6.3	34.4	5.8	3.9	6.8	
5:24:34 AM		WB	1	07	57	51.1	5	12.4	15.7	9.8	4.0	12.1	4.1	11.0	5.1	6.0	
4																	•

Move Count













## **Report Center Reports**

**Report Center** manages most of the analytical reports and is accessed via the link at the top of the **Form View** ribbon highlighted in *Figure 26*.

Figure 26: Form View ribbon								
Home TMC	TCLS TTDS RSMS NMDS WOTS RTTV							
Login +	Locate 📲 Locate All		Email This					
			Auto-Locate OFF					
	Michigan Department of Transportation (MDOT) works with							
counties, metrop of MDOT) to ider	olitan planning organizations (MPOs), regional planning or ntify existing traffic count programs and/or traffic data mo	ganizations (RPC re	os), and other areas					
	they existing dame count programs and or dame data	<u></u>						
List View	All DIRs		Report Center					
		_						
Record <b>K</b>	46 🕨 💓 of 46 Goto Record	go						
Location ID	83-3300	MPO ID						
Туре	SPOT	HPMS ID						
On NHS		On HPMS						
	1127810	LRS Loc Pt.	7.321					
SF Group	Recreational Corridor	Route Type	2					
AF Group	Snow Belt	Route	115					
GF Group	Recreational Corridor	Active	Yes					
Class Dist Grp	2_115_003	Category	Primary					
Seas Clss Grp								
WIM Group								
QC Group								
	(3) Other Principal Arterial	Milepost						
Located On	M-115							
Loc On Alias	0.3 MI W OF 15 RD - ANTIOCH TWP							
More Detail 🕨								
	L							
STATION DAT	ΓΑ		Show Data					
Directions: 2	-WAY NW SE 🕑							
	1 1							

#### Figure 26: Form View ribbon

The **Report Center** interface, shown below (*Figure 27*), is different from the previously mentioned reporting interfaces and is designed to give users more flexibility in creating reports. **Report Center** also provides the ability to run reports against user-selected sub-sets of one or more locations within the search reports. The checkboxes on the right provide an option to refine which stations should be included in the report.

#### Figure 27: Report Center interface

G						_		Hor	ne Go	Bac
→	Location	s Repo	rts Option	s Output						
-		I-SECTION Speed Co		ation = 1, Active	= 1, F	rom	1/1/2021 To 12/31	/2049	12:00:00 AM	t.
	46 Lo	cation(s) F	ound				46 1	Locat	ion(s) Selec	ted
<b>→</b>	Loc	County	Community	On	From	То	At	Dir	Alias	
	02- 2209	Alger		M-28			White Fish Rd	2- WAY		
	04- 4029	Alpena	-	US-23			Werth Rd	2- WAY	US 23	
	06- 4249	Arenac	Arenac	US 23			Sterling Rd	2- WAY	US 23	
	07- 1369	Baraga	Baraga	US-41			Arnheim Rd	2- WAY		
	09- 6479	Bay	-	US-10			S 7 Mile Rd	2- WAY		
	11- 7139	Berrien		US-31			W Bertrand Rd	2- WAY	Saint Joseph Valley	
	13- 7069	Calhoun	-	M-60			23 Mile Rd	2- WAY	M 60	
	13- 9529	Calhoun	Battle Creek	I-94 BL (DICKMAN RD)			Forest St	2- WAY	194 BL	
	17-2189	Chippewa		M-28			Old Brimley Grade	2- WAY	M 28	
	18- 3029	Clare		M-115 (CADILLAC DR)			Lake Station Ave	2- WAY	M 115	
	19- 5049	Clinton		1-69			AT LOWELL RD OVERPASS	2- WAY		
	25- 6309	Genesee	-	M-57 (VIENNA RD)			N Bray Rd	2- WAY	M 57	
	25- 6349	Genesee		1-75			Pasadena Ave	2- WAY	N US 23	
	28- 3039	Grand Traverse	- 8	M-72			Williamsburg Rd	2- WAY		
	28- 3129	Grand Traverse		M-37			US 31	2- WAY	State Route 37	

**Report Center** contains the following sections: Report metadata (A) -- at the top of the page -- updates when the Report is selected as well as the dates for the report. This area also provides the ability to choose whether to run the report immediately, or to submit long running reports to a queue. Navigation tabs (B) that guide the preparation and selection to build reports. Within the Locations tab, the user can adjust the selection criteria of the results in (C) based on the criteria displayed in (D).

**Report Center** uses a tabbed layout to build the requested reports. First, verify the locations to include in the report on the **Locations** tab. Then, select the specific report from the **Reports** tab, as shown in *Figure 28* below. Next, if required by the report, use the **Options** tab to select the options (e.g. Time Span) to apply to the report. Finally, use the **Output** tab or the "**Go**" button to view the report in the browser. Once the report is generated and viewable in the **Output** tab, there is an option to export the output graph/report to a PDF or MS Excel file.

M52



#### Figure 28: Report Center interface

Locations       Reports       Options       Output         Station       >       >         Volume       >       >         Class       >       >         Length       >       >         Speed       >       Detail Reports         WIM       >       Soth/85th Percentile AM/PM by Month for Year (Chart)         HPMS       >       Speed Distribution         MEPDG       >       Volume by Speed Bin - by Hour (Chart)         Export       >       Listing Reports         Admin       >       Stations with Speed Counts         Summary Reports       Percent Speeding by Functional System (Chart)	Report : None Dates : None Process :	ttely O Submit Job (long running reports)
Volume       >         Class       >         Length       >         Speed       >         WIM       >         Soth/85th Percentile AM/PM by Month for Year (Chart)         HPMS       >         Speed Distribution         MEPDG       >         Volume by Speed Bin - by Hour (Chart)         Export       >         Admin       >         Custom       >	Locations Report	s Options Output
WIM       > 50th/85th Percentile AM/PM by Month for Year (Chart)         HPMS       > Speed Distribution         MEPDG       > Volume by Speed Bin - by Hour (Chart)         Export       > Listing Reports         Admin       > Stations with Speed Counts         Custom       > Percent Speeding by Functional System (Chart)	Volume Class	> >
Export > Listing Reports Admin > Stations with Speed Counts Summary Reports Custom > Percent Speeding by Functional System (Chart)	Speed WIM	<ul> <li>&gt; Detail Reports</li> <li>&gt; 50th/85th Percentile AM/PM by Month for Year (Chart)</li> <li>Speed Distribution</li> </ul>
Top 10 This User  Quarterly Speed Report Quarterly Speed Report	Export Admin Custom Top 10 This User	<ul> <li>Listing Reports</li> <li>Stations with Speed Counts</li> <li>Summary Reports</li> <li>Percent Speeding by Functional System (Chart)</li> <li>Quarterly Speed Report</li> </ul>

There are over 200 reports available in **Report Center** and will continue to increase. **Report Center** covers a wider array of reports under the sub-categories of **Station**, **Volume**, **Class**, **Length**, **Speed**, **WIM** (Weigh-In-Motion), **HPMS**, **MEPDG** (Mechanistic-Empirical Pavement Design Guide), **Export**, and **Custom**.

#### List View

On the search results **Form View** page, click the **List View** button to see a table format of descriptive items related to the search results as shown in *Figure 29*.

#### Figure 29: Federal Reports interface

Bac	k			-			-	_	
Sear	ch Criteria								
Form	View Expo	rt XLS							
46 R	ecords Fou	und				Export Master L	.ocati	ons Only	/
	<u>County</u>	<u>Community</u>	<u>On</u>	<u>From</u>	To	At	Dir	Latest	
<u>02-</u> 2209	Alger	-	M-28			White Fish Rd	2- WAY	3670	l
<u>04-</u> 4029	Alpena	-	US-23			Werth Rd	2- WAY	4358	
<u>06-</u> 4249	Arenac	Arenac	US 23			Sterling Rd	2- WAY	7392	
<u>07-</u> 1369	Baraga	Baraga	US-41			Arnheim Rd	2- WAY	3727	
<u>09-</u> 6479	Bay	-	US-10			S 7 Mile Rd	2- WAY	31598	
<u>11-</u> 7139	Berrien	-	US-31			W Bertrand Rd	2- WAY	16891	
<u>13-</u> 7069	Calhoun	-	M-60			23 Mile Rd	2- WAY	3327	
<u>13-</u> 9529	Calhoun	Battle Creek	I-94 BL (DICKMAN RD)			Forest St	2- WAY	9348	

The Export XLS button allow users to view or export information on locations and counts in an .xls format.



# **Button Functionality**

There are a variety of buttons available on the **Form View** (Individual Results) page to help the user navigate through the result(s) as presented in *Figure 30* below.

		1		-	-	eto Re	+core	1			
1.00	ation (D)	13-3306	_				-	-	POR		
	Type	5401							MA CO -	L/Epia	
-	On Wes	180						Ó.	10'95	10	
	LRS-D	1136809					_	LRS	Loc Pt 2	187	
and the second se		Ranal North		_	_	_			n Type 2		_
	& Germap			_	_	_			Roots 2		_
-	I George	Rural North 2, 928, 947						6	Activa	80	
	Ches Gep	2,928,967	_	_	_	_		9 6	1000	inary.	_
	M Geneg			_	_	_		-	_	_	_
	C Garrage )	Pages						-	_		
· Free	#1 Class	1 Other Prin	-dpail Arter	fal					Impost	_	
1.00	aled On	M-28						_			
Loc	On Allan		_								
	Inst of 1	onda Flah Ro	1	-	-		-	-		-	
	_	_	_	_	_		_	_	_	_	_
	ION DAT										how D
Direct	ions: RE	107	WIL O	-							
		1.8	18.1			-					
A40	10										
	Year	AASI	Dere-Se			0.5		24	BC.		Sec.
	2029	3.302	570	- 4		- 19		7 (54%)	185.00		
	2019	3.681	595		6	84		6 (95%)	175-(5		_
-	2018	3,594	545		6	64 52		1 (55%)	173 (5		
	2016	3,509	240		2	52		7 (99%) 1 (94%)	192-29		MDOT
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Figure 30: Action Buttons

A - The Back navigation buttons allows the user to review previous records within the results.

B – The Forward navigation buttons allows the user to review additional records within the results.

C – The **Go** button allows users to navigate to a specific record by typing in the position within the range (e.g. with multiple results type 5 and select **Go**).

D – The **Direction** options include Master level (1-WAY or 2-WAY), Direction level (N, S, E, W, POS, NEG) and Lane level (1, 2, 3, 4, other). Any of these options can be selected when reviewing counts.

E - The Navigation buttons allow the user to move to the next set (page) of available records.

F - The Calendar icon provides users with a view of the counts using a calendar format.



# OMS2

#### Figure 31: AADT Table

AADT	· 🕜							Graph
	Year	AADT	DHV-30	Κ%	D %	PA	BC	Src
	2019	10,935 <sup>3</sup>				10,442 (95%)	493 (5%)	Grown from 2018
	2018	11,023	880	8	50	9,601 (87%)	1,421 (13%)	
Đ	Edit	Multiple						

AADTs may receive an assigned code (Figure 31) based on the calculation or designation method as shown above. Table 1 shows the list of current codes that may be visible when reviewing location details.

Code	Label	Description
Null	Empty	No code was provided, these should be rare and are most often legacy AADTs from another system.
1	Actual	Based on an actual raw count in that same year.
2	Estimated	Manual estimate typed in by a human.
3	Grown	Grown from prior year AADT at the same station with a growth factor.
4	Calculated from Partial Counts	An AADT computed from less than 24 hours of data using some form of expansion factor to get to a 24-hour total.
5	Unknown	AADT came from an unknown source.
6	HPMS Network Estimation	AADT was estimated as part of MS2's HPMS Network Estimation algorithms, and then pulled back to TCDS.
7	Combined from Child AADTs	Two directional AADTs were combined into a 2-Way total AADT.
8	Modified by Ramp Balancing	Ramp balancing algorithms adjusted the AADT in order to make the on/off ramp flow correct.
9	Carried forward from most recent of previous 6 years	Only applies to non-AADT values (stats like K/D factors), values were pulled forward because an actual value doesn't exist in the current year.
10	Calculated from Seasonal Class Factors	Only applies to Class AADTs, values were adjusted by Seasonal Class Factors to account for seasonal fluctuations per class.
11	Calculated from Class Distribution Factors	Only applies to Class AADTs, truck values were estimated on Volume-only stations based on Class Distributions at Class sites.
12	Doubled from Single Direction	A single direction AADT was doubled into a 2-Way total AADT.
13	HPMS Estimation Routine Default Value	Part of MS2's HPMS Network Estimation algorithms, a default value was applied because no better estimate could be computed.
14	Grown from Prior Year HPMS Network	AADT was grown from a prior year HPMS segment AADT using a growth factor (as opposed to from a station AADT).
15	Derived from ESAL Distribution Chart	Only applies to ESAL Factors, they were created from WIM/ESAL Factor Clustering.
16	Derived from Class Distribution and Length Based Combo Trucks	Only applies to Class AADTs, Combo trucks were derived from length-based counts, and then distributed further from there via Class Distribution factors.

#### Table 1: AADT Codes with Description



17	Adjusted by Average of	Only applies to Class AADTs, truck values were adjusted by an
	Individual Class AADTs of Class	algorithm developed by TxDOT (not used outside of TxDOT).
	Distribution Group	
18	Class Distribution Skipped	Only applies to Class AADTs, class distribution factor clustering
		for a group is skipped
19	Calculated from Virtual Station	This is a Virtual Station and its AADT came from other Source
	Source AADTs	Station AADTs.
20	Calculated from Manual Partial	Only applies to Class AADTs, truck values computed from
	Class Counts	Manual Class Counts that were less than 24 hours.
21	Previous Year Chosen from	The previous year's AADT is selected from the clustering
	Clustering	interface.
22	Disaggregated from non-FHWA	Only applies to Class AADTs, truck values were disaggregated
	schema	from a non-13-class scheme (not used outside of NCDOT).
23	AADT synchronized with other	Part of MS2's HPMS Network Estimation algorithms, segments
	stations on the segment	that don't have their own AADT can get AADTs from other
		nearby segments on the same RouteID.

# **Calculating AADT**

The formula for calculating AADT is displayed using the  $^{\textcircled{0}}$ , located at the right of the title.

AADT = VOL x SF x AF

AADT = Annual Average Daily Traffic

VOL = 24-hour volume count

SF = applicable month/day combination seasonal factor

AF = applicable axle-correction factor