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Traffic Count Database System User Guide

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TRAFFIC COUNT DATABASE SYSTEM USER GUIDE

The screenshot displays the MS2 Transportation Data Management System interface. The top navigation bar includes links for Home, HPMS, TMC, TCLS, TTDS, PMS, PMDS, RSMS, NMDS, WOIS, and RTTV. Below this is a search section with 'Quick Search', 'Advanced Search', 'Map Search', and 'Tools' tabs. The 'Quick Search' section contains dropdown menus for County, Community, Located On (Road), Location ID, and Count Year. Below the search section is a 'Station Data' table and a 'Percent of Data by Type' bar chart. The 'Station Data' table is as follows:

Station Type	Continuous	Short	WIM
Total	130	41,567	43
AADT	120	28,990	40
Volume	126	23,971	43
Class	96	6,353	43
Speed	106	18	43
Gap	0	0	0
WIM	1	0	1

The 'Percent of Data by Type' bar chart shows the distribution of data across categories: AADT, Volume, Class, Speed, Gap, and WIM. AADT and Volume are the most prominent categories.

Below the station data is a 'Traffic Volume Index and Growth Rate' chart, which is a combination bar and line chart showing 'Change' (blue bars) and 'Index' (orange line) over time. The chart shows a general upward trend in both metrics.

The right side of the interface features a map of a city area with numerous orange and blue markers representing traffic count stations. The map includes a search bar, a 'Locate' button, and a 'Tools' menu with options for General, Google, TCDS, and TMC.

Traffic Count User Guide – Public version



Traffic Count Database System (TCDS) Documentation

Updated: December 2021

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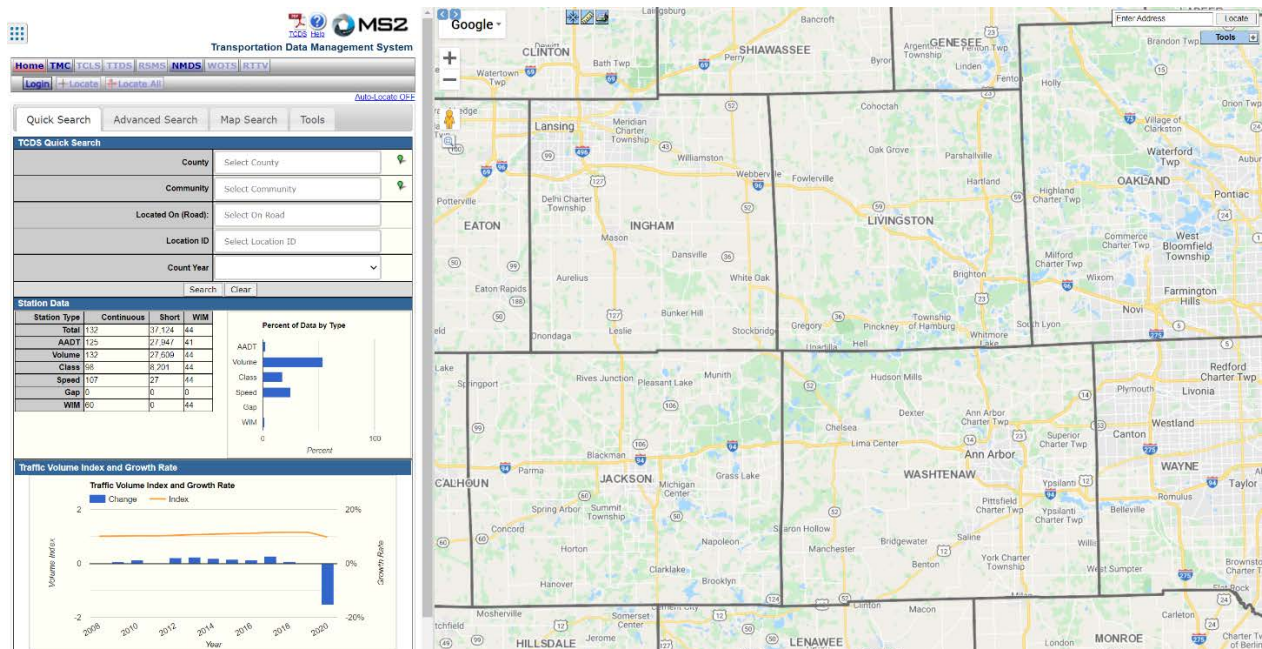
Overview

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:

1. 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

TCDS Quick Search	
County	Select County
Community	Select Community
Located On (Road):	Select On Road
Location ID	Select Location ID
Count Year	
<input type="button" value="Search"/> <input type="button" value="Clear"/>	

Figure 3: Advanced Search

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

- 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

[Home](#) [HPMS](#) [TMC](#) [TCLS](#) [TTDS](#) [PMS](#) [PMDS](#) [RSMS](#) [NMDS](#) [WOTS](#) [RTTV](#)
[Backup](#) [Admin](#) [Login](#) [Logout](#) [+Locate](#) [+Locate All](#) [Email This](#)
 New: [Link](#) | [Spot](#) |
 Welcome: [Auto-Locate OFF](#)

[List View](#) [All DIRs](#) [Report Center](#) [Save Search](#) [Load Search](#) [Build Search](#)

Record 291 of 295 [Goto Record](#) [go](#) [Loc](#) [go](#)

Location ID	9876 Edit ID	MPO ID	
Type	SPOT	HPMS ID	780008201009
On NHS	Yes	On HPMS	No
LRS ID	SSTAUS00062**C	LRS Loc Pt.	10.52
SF Group	URBAN_OTHER_PRINCIPAL_ARTERIAL	Route Type	US
AF Group	URBAN_OTHER_PRINCIPAL_ARTERIAL	Route	00062
GF Group	URBAN_OTHER_PRINCIPAL_ARTERIAL	Active	Yes
Class Dist Grp	SSTAUS00062**C	Category	State Program
Seas Class Grp	URBAN_OTHER_PRINCIPAL_ARTERIAL		
WIM Group			
QC Group	Perm		
Funct'l Class	Other Principal Arterial	Milepost	
Located On	US-62		
Loc On Alias	550		

[More Detail](#) [Edit](#) [Delete](#)

STATION DATA [Add](#)

Directions: **2-WAY** [EB](#) [WB](#) [?](#)
 1 2 1 2

AADT [Graph](#)

Year	AADT	DHV-30	K %	D %	PA	BC	Src
2019	17,575	1,712	10	53	15,800 (90%)	1,775 (10%)	
2018	18,017	1,745	10	55	16,198 (90%)	1,819 (10%)	
2017	18,630	1,791	10	54	17,513 (94%)	1,117 (6%)	
2016	18,630	1,795	10	58	17,513 (94%)	1,117 (6%)	
2015	18,762	1,844	10	55	17,636 (94%)	1,126 (6%)	

[Edit Multiple](#) 1-5 of 19

Travel Demand Model

Model Year	Model AADT	AM PHV	PV	MD PHV	PV	PM PHV	PV	NT PHV	PV

VOLUME COUNT [Graphs/Rpts](#)

Date	Int	Total	Status
Tue 6/9/2020	15	17,887	✓
Mon 6/8/2020	15	17,551	✓
Sun 6/7/2020	15	13,810	✓
Sat 6/6/2020	15	16,439	✓
Fri 6/5/2020	15	18,749	✓
Thu 6/4/2020	15	17,333	✓
Wed 6/3/2020	15	17,700	✓
Tue 6/2/2020	15	17,220	✓
Mon 6/1/2020	15	17,579	✓
Sun 5/31/2020	15	13,005	✓

VOLUME TREND [Graph](#)

Year	Annual Growth
2019	-2%
2018	-3%
2017	0%
2016	-1%
2015	2%
2014	0%
2013	0%
2012	4%
2011	-2%
2010	-2%

1-10 of 4265 1-10 of 18

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	
		Edit	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.

Figure 6: AADT and: Counts

AADT								
	Year	AADT	DHV-30	K %	D %	PA	BC	Src
<input checked="" type="checkbox"/>	2018	89,542						
	Edit Multiple							

Travel Demand Model										
	Model Year	Model AADT	AM		MD		PM		NT	
			PHV	PV	PHV	PV	PHV	PV	PHV	PV

VOLUME COUNT					Graphs/Rpts	
	Date	Int	Total	Status		
	Tue 6/9/2020	15	39,210	✓		
	Mon 6/8/2020	15	38,391	✓		
	Sun 6/7/2020	15	29,000	✓		
	Sat 6/6/2020	15	34,431	✓		
	Fri 6/5/2020	15	40,671	✓		
	Thu 6/4/2020	15	38,221	✓		
	Wed 6/3/2020	15	38,020	⊗		
	Tue 6/2/2020	15	36,149	✓		
	Mon 6/1/2020	15	36,048	✓		
	Sun 5/31/2020	15	28,286	✓		

VOLUME TREND		Graph	
Year	Annual Growth		
2019	-4%		
2018	22%		

SPEED							Graphs/Rpts	
	Date	Int	Pace	85th	Total	Status		
	Tue 6/9/2020	15	51 - 61	62	39,210	✓		
	Mon 6/8/2020	15	46 - 56	62	38,391	✓		
	Sun 6/7/2020	15	51 - 61	62	29,000	✓		
	Sat 6/6/2020	15	46 - 56	62	34,431	✓		
	Fri 6/5/2020	15	51 - 61	62	40,671	✓		
	Thu 6/4/2020	15	51 - 61	63	38,221	✓		
	Wed 6/3/2020	15	51 - 61	62	38,020	⊗		
	Tue 6/2/2020	15	46 - 56	61	36,149	✓		
	Mon 6/1/2020	15	46 - 56	62	36,048	✓		
	Sun 5/31/2020	15	46 - 56	62	28,286	✓		

CLASSIFICATION					Graphs/Rpts	
	Date	Int	Total	Status		
	Tue 6/9/2020	15	39,210	✓		
	Mon 6/8/2020	15	38,391	✓		
	Sun 6/7/2020	15	29,000	✓		
	Sat 6/6/2020	15	34,431	✓		
	Fri 6/5/2020	15	40,671	✓		
	Thu 6/4/2020	15	38,221	✓		
	Wed 6/3/2020	15	38,020	⊗		
	Tue 6/2/2020	15	36,149	✓		
	Mon 6/1/2020	15	36,048	✓		
	Sun 5/31/2020	15	28,286	✓		

WEIGH-IN-MOTION				
Date	Axles	Avg GVW	Total	Status
No Data				

PER VEHICLE				
Date	Axles	85th	Total	Status
No Data				

GAP			
Date	Int	Total	Status
No Data			

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

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

Figure 7: Results banner

Ad-Hoc Rpts Graphs/Rpts

List View All DIRs Report Center Save Search Load Search Build Search

Record

1

of 10
Goto Record

go
Loc

go

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

Figure 8: List View

Back

Search Criteria

Form View Export XLS

32 Records Found
 Export Master Locations Only

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

- 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).

Figure 9: Advanced Search

MS2 TCDS Help Refresh Support **MS2**

Transportation Data Management System

Home TSMS TCLS TTDS PMS PMDS RSMS NMDS WOTS RTTV

Backup Admin Login Logout + Locate + Locate All

Welcome: Auto-Locate OFF

Quick Search **Advanced Search** Map Search Tools

TCDS Advanced Search

Search Reset Search Load Search Ad-Hoc Rpts

Search Master Locations Only

Agency: Demo

Jurisdiction:

District:

County:

Community: Exact Match

Location ID: Exact Starts With Ends With Contains

Type: SPOT

Located On¹: Exact Match

Route Type: ALL

Route: Exact Match

MPO ID:

Crossroad¹: 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?: ALL

WIM Station?: ALL

Mega-Site?: ALL

State Owned?: ALL

Direction: ALL

Fnc'l Class: ALL Null

Rural/Urban: ALL

Category: ALL Null

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%)

Count Date²: From To
(MM/DD/YYYY) (MM/DD/YYYY)

Counts Needed: Since Count Due Year
(MM/DD/YYYY) - Locations not counted since this date Check AADT Year

As of Date	<input type="text"/> date Count expires (MM/DD/YYYY)	Cycle Length: <input type="text"/> number of years between counts
Use 'As of Date' in conjunction with 'Cycle Length' to find Locations whose most recent Count is older than the entered number of years before the As of Date.		
Count Cycle	<input type="text"/> Min <input type="text"/> Max	
Import Date ²	<input type="text"/> From (MM/DD/YYYY)	<input type="text"/> To (MM/DD/YYYY)
QC Error	ALL <input type="button" value="v"/>	
Volume Counts	<input type="text"/> <input type="button" value="v"/> Filter By Volume	<input type="text"/> <input type="button" value="v"/> Owner
	<input type="text"/> <input type="button" value="v"/> Filter by Days Counted	<input type="text"/> Days Counted
	<input type="text"/> <input type="button" value="v"/> Interval	<input type="text"/> <input type="button" value="v"/> Abnormal
	<input type="text"/> Min <input type="text"/> Max	<input type="text"/> <input type="button" value="v"/> Count Status
Class Counts	<input type="text"/> <input type="button" value="v"/> Filter By Class	<input type="text"/> <input type="button" value="v"/> Owner
	<input type="text"/> <input type="button" value="v"/> Filter by Days Counted	<input type="text"/> Days Counted
	<input type="text"/> <input type="button" value="v"/> Interval	<input type="text"/> <input type="button" value="v"/> Abnormal
	<input type="text"/> Min <input type="text"/> Max	<input type="text"/> <input type="button" value="v"/> Count Status
Speed Counts	<input type="text"/> <input type="button" value="v"/> Filter By Speed	<input type="text"/> <input type="button" value="v"/> Owner
	<input type="text"/> <input type="button" value="v"/> Filter by Days Counted	<input type="text"/> Days Counted
	<input type="text"/> <input type="button" value="v"/> Interval	<input type="text"/> <input type="button" value="v"/> Abnormal
	<input type="text"/> Min <input type="text"/> Max	<input type="text"/> <input type="button" value="v"/> Count Status
Gap Counts	<input type="text"/> <input type="button" value="v"/> Filter By Gap	<input type="text"/> <input type="button" value="v"/> Owner
	<input type="text"/> <input type="button" value="v"/> Filter by Days Counted	<input type="text"/> Days Counted
	<input type="text"/> <input type="button" value="v"/> Interval	<input type="text"/> <input type="button" value="v"/> Abnormal
	<input type="text"/> Min <input type="text"/> Max	<input type="text"/> <input type="button" value="v"/> Count Status
WIM Counts	<input type="text"/> <input type="button" value="v"/> Filter By WIM	<input type="text"/> <input type="button" value="v"/> Owner
	<input type="text"/> <input type="button" value="v"/> Filter by Days Counted	<input type="text"/> Days Counted
	<input type="text"/> Min <input type="text"/> Max	<input type="text"/> <input type="button" value="v"/> Count Status
Partial Counts ²	<input type="text"/> <input type="button" value="v"/> Filter By Partial	<input type="text"/> <input type="button" value="v"/> Owner
	<input type="text"/> <input type="button" value="v"/> Interval	
	<input type="text"/> From (MM/DD/YYYY)	<input type="text"/> To (MM/DD/YYYY)
AADT Counts	<input type="text"/> <input type="button" value="v"/> Filter By AADT	<input type="text"/> <input type="button" value="v"/> Owner
Model Counts	<input type="text"/> <input type="button" value="v"/> Filter By Model	<input type="text"/> <input type="button" value="v"/> Owner
Active	ALL <input type="button" value="v"/> Filter By Active	
Location Owner	<input type="text"/>	
Location Note	<input type="text"/>	
	<input checked="" type="radio"/> In String <input type="radio"/> Exact Match	
Note Date	<input type="text"/> From (MM/DD/YYYY)	<input type="text"/> To (MM/DD/YYYY)
Recount Requested	<input type="checkbox"/>	
<input type="button" value="Search"/> <input type="button" value="Reset Search"/> <input type="button" value="Load Search"/> <input type="button" value="Ad-Hoc Rpts"/>		
¹ - Enter all or part of the road name. You can exclude prefixes and suffixes like "NW", "S", "Rd", "St", "Ln". ² - Enter either or both dates to search for records within the range.		

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	

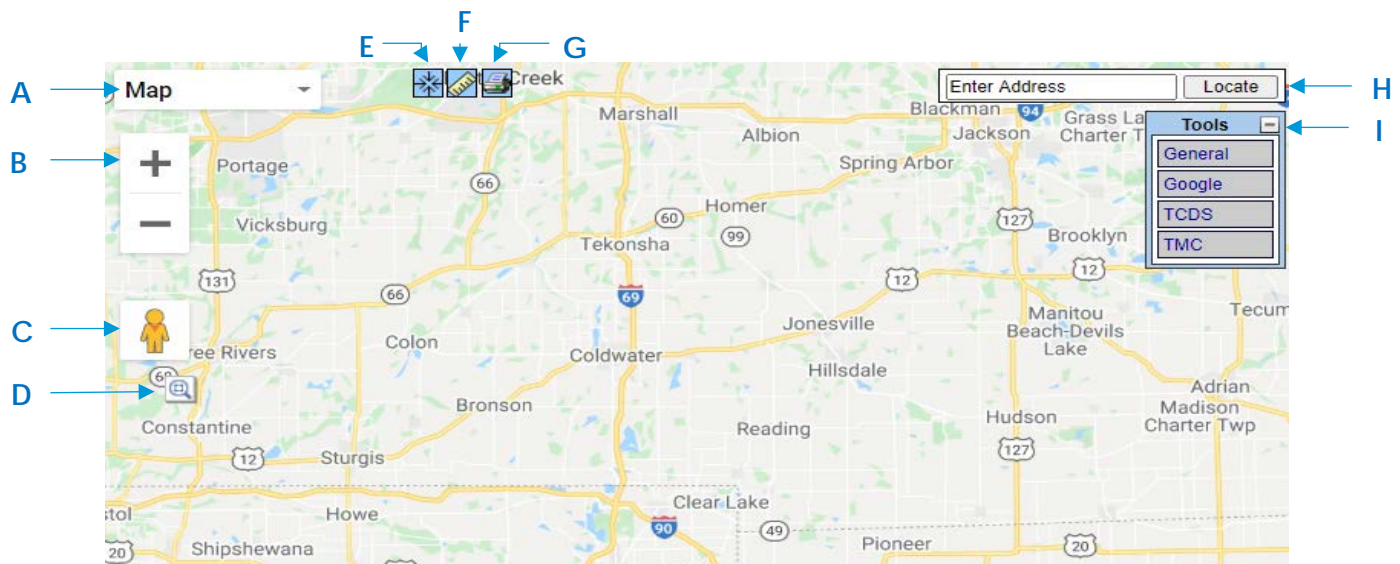
Map Interactions

The Google Maps™ 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 in:

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

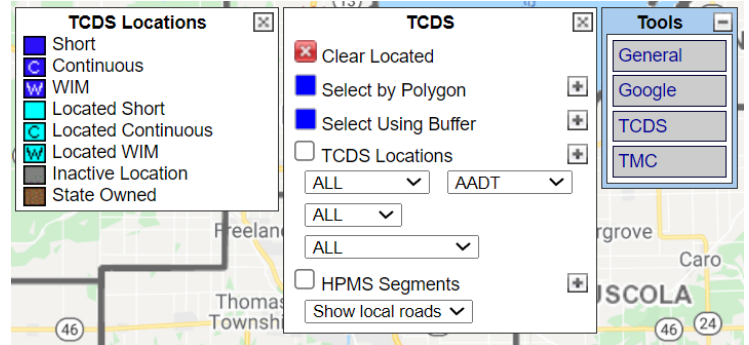
Click on any of the Tools menu (I) options to view or select additional actions to perform on the map.

Map Tools and Layers

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

1. 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**).
3. Click the "+" button to the right of the **TCDS Locations** option to display the **TCDS Locations** legend.

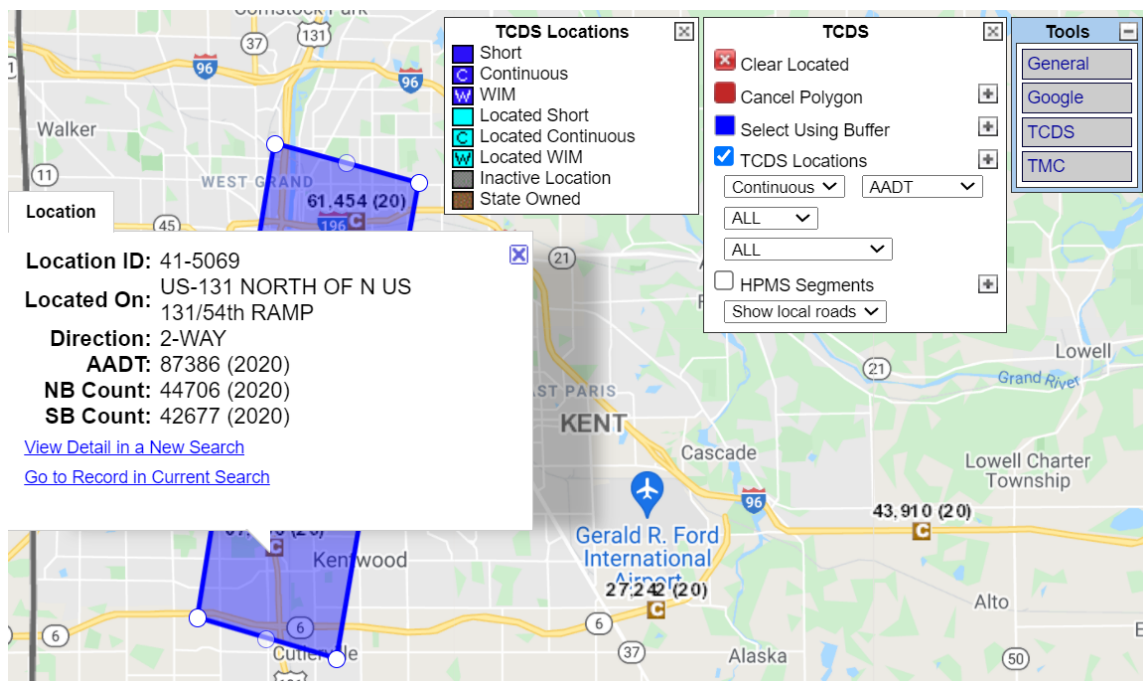
Figure 12: Map Tools



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.

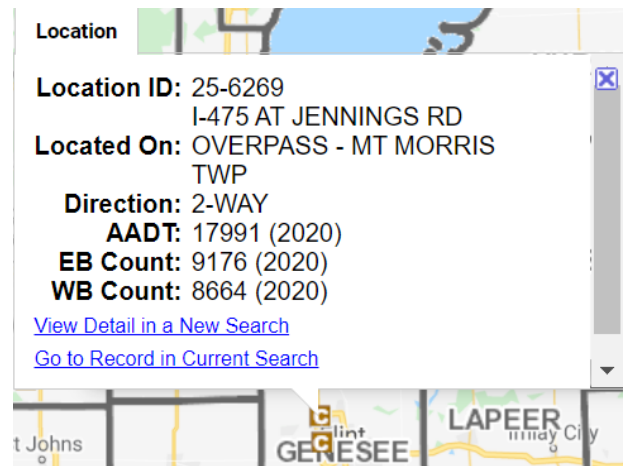
Figure 13: View of Location pop-up



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.



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.

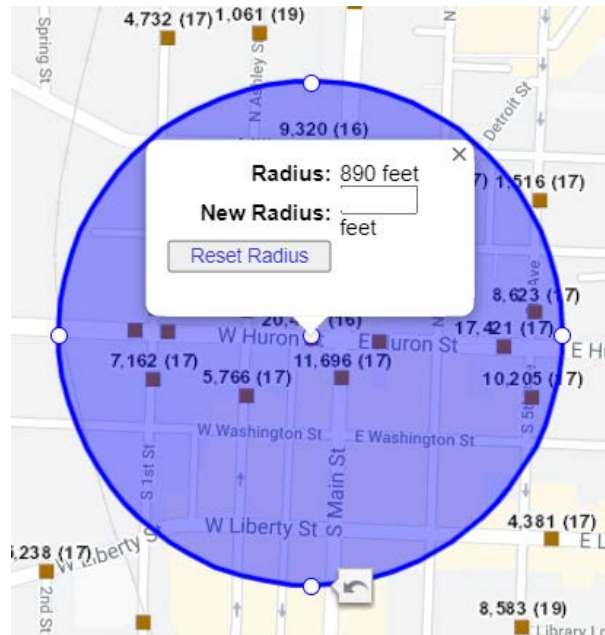
Click on the starting point to close the polygon (see photo above). The shaded polygon will be completed, and the left side of the screen will load the **Build Search** page.

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.
4. 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.
5. (Optionally) Reset the radius to a different value by typing it into the **New Radius** box and clicking the **Reset Radius** button.


Figure 14: Select by Buffer



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. Then click 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 --	
<input type="checkbox"/> Search Master Locations Only 	
<input type="button" value="Search"/> <input type="button" value="Home"/> <input type="button" value="Reset"/> <input type="button" value="Admin"/>	

Home Page button functionality

Locate & Locate All

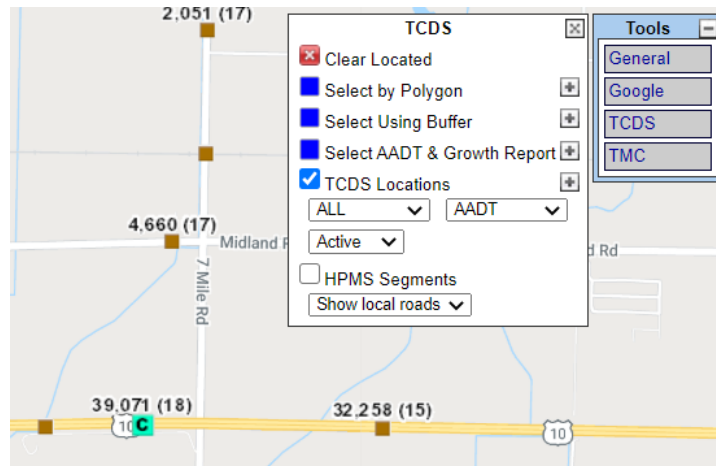
On the Home page (see **Figure 16**), there are two buttons that can be used to identify the station(s) generated from the query.

Figure 16: Home banner



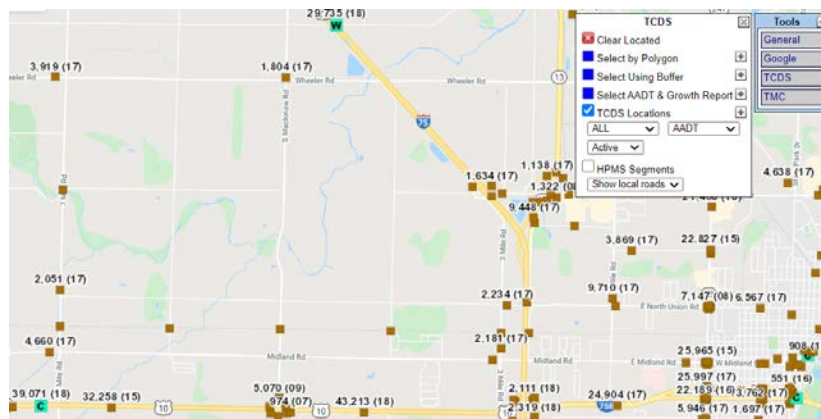
On the **Form View** page after performing a search, click on the **Locate** button in the toolbar to zoom the map to the current **TCDS** location under review. As shown in **Figure 17**, the location is highlighted in cyan blue.

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.

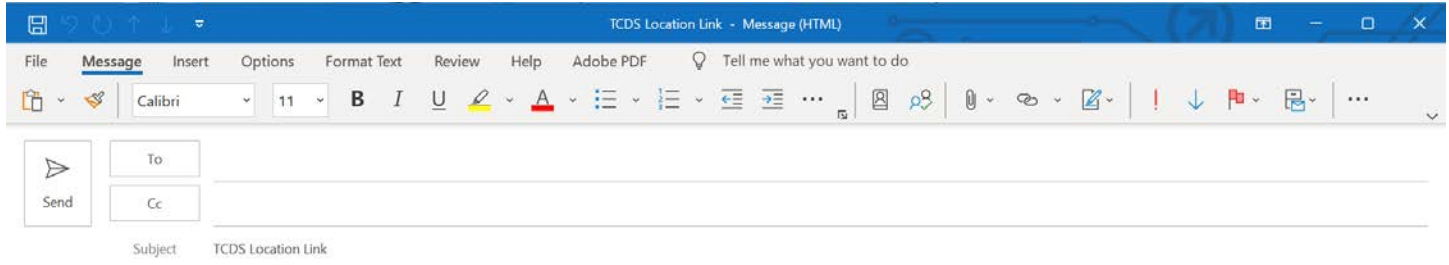
Figure 18: All Located stations



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.



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		1		of 1		Goto Record		go	
Location ID	02-2209	MPO ID							
Type	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 Ciss Grp									
WIM Group									
QC Group	Perm								
Funct'l Class	(3) Other Principal Arterial	Milepost							
Located On	M-28								
Loc On Alias									
EAST OF	White Fish Rd								
More Detail									

STATION DATA Show Data

Directions: **2-WAY** **EB** **WB** ?

1 1

AADT ?								
	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 11

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):

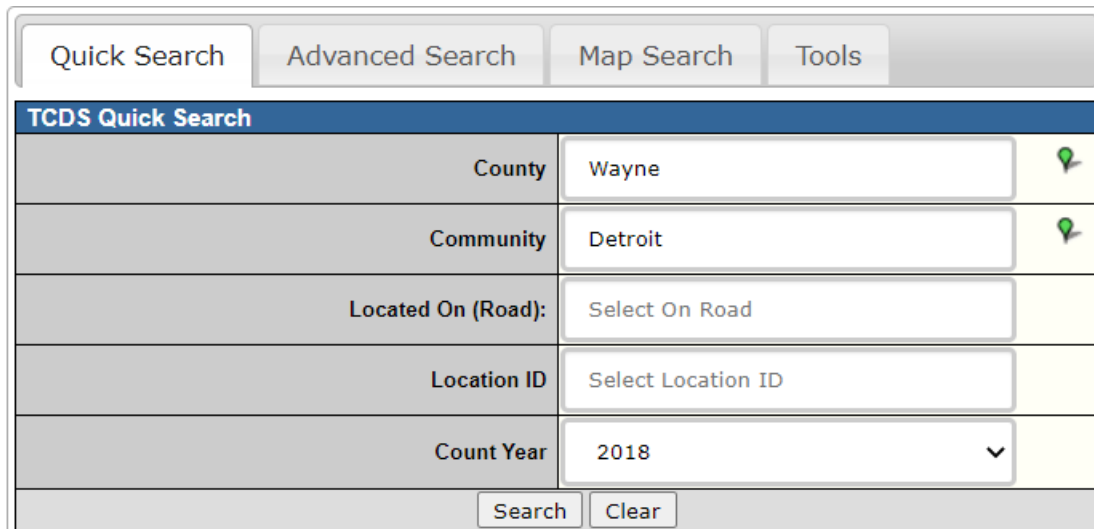
- Single station, single day reports
- Single station, multiple day reports
- Multiple station, multiple day reports
- Report Center reports




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.

Figure 19: Search Tool tabs



TCDS Quick Search	
County	Wayne 
Community	Detroit 
Located On (Road):	Select On Road
Location ID	Select Location ID
Count Year	2018 
<input type="button" value="Search"/> <input type="button" value="Clear"/>	

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

The screenshot shows a detailed form view for a station. At the top, there are navigation buttons for 'List View', 'All DIRs', and 'Report Center'. The main section contains a grid of fields for station information, including Location ID (02-2209), Type (SPOT), On NHS (Yes), LRS ID (1138609), SF Group (Rural North), AF Group (North), GF Group (Rural North), Class Dist Grp (2_028_007), Seas Class Grp, WIM Group, QC Group (Perm), Fncn1 Class ((3) Other Principal Arterial), Located On (M-28), Loc On Alias, and EAST OF (White Fish Rd). Below this is a 'STATION DATA' section with 'Directions: 3-WAY EB WB' and '1 1'. The 'AADT' table shows data from 2016 to 2020. The 'VOLUME COUNT' table shows daily volume counts from Mon 12/27/2021 to Fri 12/17/2021. The 'VOLUME TREND' table shows annual growth percentages from 2011 to 2020. A blue arrow 'A' points to the 'eye' icon in the Volume Count table, and another blue arrow 'B' points to the 'Report Center' button.

Single Station, Single Day Reports

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.

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

Figure 21: Volume Count section

The screenshot shows the 'VOLUME COUNT' section with a table of data. A blue arrow 'A' points to the 'eye' icon in the first row. The table has columns for Date, Int, Total, and Status. Below the table are navigation buttons for '1-10 of 9373' and 'To Date', and action buttons for 'Create', 'Flag/Unflag', 'Edit Multiple', and 'Export Totals'.

VOLUME COUNT				Graphs/Rpts
	Date	Int	Total	Status
	Tue 8/6/2019	15	3,844	✓
	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	✓
	Tue 6/14/2011	60	3,042	✓
	Mon 6/13/2011	60	3,016	✓
	Tue 4/24/2007	60	2,877	✓
	Mon 4/23/2007	60	2,722	✓

Figure 22: Volume Count Report

Volume Count Report

LOCATION INFO		INTERVAL:60-MIN	
Location ID	01011	Time	Hourly Count
Type	SPOT	0:00-1:00	94
Funct'l Class	1	1:00-2:00	108
Located On	OLD OREGON TRAIL NO. 6	2:00-3:00	96
Loc On Alias	006	3:00-4:00	95
SOUTH OF	UnionBaker County Line [0.45 miles]	4:00-5:00	141
Direction	2-WAY	5:00-6:00	149
County	Baker	6:00-7:00	194
Community	-	7:00-8:00	306
MPO ID		8:00-9:00	465
HPMS ID		9:00-10:00	459
Agency	ODOT	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 DATA INFO	
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	000000012713
Study	
Speed Limit	
Description	
Sensor Type	ATR Class
Source	CombineVolumeCountsIncremental
Latitude,Longitude	

Count Navigation: ||<< < > >>|| Count Type: VOLUME ▾

Directions: **2-WAY** EB WB ?

1 2 1 2

[View Calendar](#)

[View in Excel](#)

[Bar Graph](#)

[Line Graph](#)

[Weekly Report](#)

[Monthly Report](#)

[Hourly Volume By Lane](#)

[Compare Count](#)

Figure 23: Classification Report

Classification 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	000000012713
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 ?


1 2 1 2

Count Navigation: << < > >>
Count Type: CLASS v


Classification - Vehicle Length (feet)

Start Time	0-20	20-35	35-61	61-150	150+													TOTAL
12:00 AM	22	9	3	60	0	0	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	0	0	108
2:00 AM	26	4	9	57	0	0	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	0	0	95
4:00 AM	29	9	7	96	0	0	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	0	0	149
6:00 AM	53	20	14	107	0	0	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	0	0	306
8:00 AM	164	67	21	213	0	0	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	0	0	459
10:00 AM	324	69	37	179	0	0	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	0	0	576
12:00 PM	392	116	28	185	0	0	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	0	0	698
2:00 PM	363	99	27	189	0	0	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	0	0	630
4:00 PM	242	74	28	169	0	0	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	0	0	424
6:00 PM	136	39	13	154	0	0	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	0	0	242
8:00 PM	73	20	8	95	0	0	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	0	0	138
10:00 PM	41	7	2	66	0	0	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	0	0	105
TOTAL	3609	1064	359	3063	0	0	0	0	0	0	0	0	0	0	0	0	0	8095

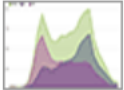
Count Navigation: << < > >>

- 


[View Calendar](#)




[Bar Graph](#)



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[Monthly Report](#)

Figure 24: Speed Report


Speed 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	000000012713
Start Time	12:00:00 AM	Direction	2-WAY	Agency	ODOT
Source	Syst_Combine	Sensor Type	ATR Class		
85%tile Speed	75	Count Status	Accepted	Pace Speed	65 - 75

Directions: **2-WAY** **EB** **WB** ?
 1 2 1 2


Count Navigation: |<< < > >>| Count Type: SPEED ▾

Speed Range (mph)																
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	85+	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	11	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	6	630
4:00 PM	0	0	0	0	0	0	0	3	16	71	184	150	74	12	3	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	41	80	54	32	8	2	242
8:00 PM	0	0	0	0	0	0	1	3	9	32	66	60	19	5	1	196
9:00 PM	0	0	0	0	0	1	0	2	10	23	54	33	8	5	2	138
10:00 PM	0	0	0	0	1	0	0	2	4	34	39	21	9	4	2	116
11:00 PM	0	0	0	0	0	0	0	2	9	24	36	22	9	3	0	105
TOTAL	1	2	2	6	23	84	165	316	567	1324	2185	1941	1125	279	75	8095

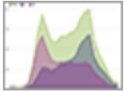
Count Navigation: |<< < > >>|




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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 ▼
Owner	ODOTAuto	Filename	00000000788-20200612.csv

Directions: **2-WAY** **EB** **WB** ?

1 1

Date Navigation	Count Navigation
<< < > >> 620 of 622 Dates	Count Type: WIM ▼

GRAPH/REPORT OPTIONS					
Hrly GVW Avg	GVW	Axle Load	Veh. Speed	Veh. Wgt.	Raw Data
			ALL ▼	ALL ▼	ALL ▼

<< < > >> 1 - 25 of 405 Jump To: **12 AM** ▼ Page Size: **25** ▼

Per-Vehicle Raw Data																	
Row Formatting: Invalid Vehicle Warning Flag Overweight vehicle																	
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	✘	WB	1		0	0.0	0										
5:08:51 AM		WB	1	08	59	27.2	3	9.7	13.8	10.0	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	



[View Raw Data in Excel](#)



[Delete Count](#)



[QC Log](#)



[Move Count](#)



[Update All 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



Disclaimer: The Michigan Department of Transportation (MDOT) works with individual agencies (cities/villages, counties, metropolitan planning organizations (MPOs), regional planning organizations (RPOs), and other areas of MDOT) to identify existing traffic count programs and/or traffic data... [more](#)

List View
All DIRs
Report Center

Record	⏪ ⏴ 46 ⏵ ⏩	of 46	Goto Record	<input style="width: 40px;" type="text"/> <input type="button" value="go"/>
Location ID	83-3300	MPO ID		
Type	SPOT	HPMS ID		
On NHS	Yes	On HPMS	No	
LRS ID	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	Perm			
Funct'l Class	(3) Other Principal Arterial	Milepost		
Located On	M-115			
Loc On Alias				
	0.3 MI W OF 15 RD - ANTIOCH TWP			
More Detail ▶				
STATION DATA		Show Data		

Directions: 2-WAY NW SE ?

1

1

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

Report : None
 Dates : None
 Process : Immediately

Home Go Back

Locations Reports Options Output

Type = I-SECTION, Is Perm Station = 1, Active = 1, From 1/1/2021 To 12/31/2049 12:00:00 AM
 Include Speed Counts

46 Location(s) Found 46 Location(s) Selected

Loc ID	County	Community	On	From	To	At	Dir	Alias	<input checked="" type="checkbox"/>
02-2209	Alger	-	M-28			White Fish Rd	2-WAY		<input checked="" type="checkbox"/>
04-4029	Alpena	-	US-23			Werth Rd	2-WAY	US 23	<input checked="" type="checkbox"/>
06-4249	Arenac	Arenac	US 23			Sterling Rd	2-WAY	US 23	<input checked="" type="checkbox"/>
07-1369	Baraga	Baraga	US-41			Arnheim Rd	2-WAY		<input checked="" type="checkbox"/>
09-6479	Bay	-	US-10			S 7 Mile Rd	2-WAY		<input checked="" type="checkbox"/>
11-7139	Berrien	-	US-31			W Bertrand Rd	2-WAY	Saint Joseph Valley	<input checked="" type="checkbox"/>
13-7069	Calhoun	-	M-60			23 Mile Rd	2-WAY	M 60	<input checked="" type="checkbox"/>
13-9529	Calhoun	Battle Creek	I-94 BL (DICKMAN RD)			Forest St	2-WAY	I 94 BL	<input checked="" type="checkbox"/>
17-2189	Chippewa	-	M-28			Old Brimley Grade	2-WAY	M 28	<input checked="" type="checkbox"/>
18-3029	Clare	-	M-115 (CADILLAC DR)			Lake Station Ave	2-WAY	M 115	<input checked="" type="checkbox"/>
19-5049	Clinton	-	I-69			AT LOWELL RD OVERPASS	2-WAY		<input checked="" type="checkbox"/>
25-6309	Genesee	-	M-57 (VIENNA RD)			N Bray Rd	2-WAY	M 57	<input checked="" type="checkbox"/>
25-6349	Genesee	-	I-75			Pasadena Ave	2-WAY	N US 23	<input checked="" type="checkbox"/>
28-3039	Grand Traverse	-	M-72			Williamsburg Rd	2-WAY		<input checked="" type="checkbox"/>
28-3129	Grand Traverse	-	M-37			US 31	2-WAY	State Route 37	<input checked="" type="checkbox"/>

Previous 1 2 3 4 Next

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.

Figure 28: Report Center interface

Report : None
 Dates : None
 Process : Immediately Submit Job (long running reports)

[Home](#) [Go](#) [Back](#)

Locations Reports Options Output

- Station >
- Volume >
- Class >
- Length >
- Speed >

Detail Reports

 - 50th/85th Percentile AM/PM by Month for Year (Chart)
 - Speed Distribution
 - Volume by Speed Bin - by Hour (Chart)

Listing Reports

 - Stations with Speed Counts

Summary Reports

 - Percent Speeding by Functional System (Chart)
 - Quarterly Speed Report
- WIM >
- HPMS >
- MEPDG >
- Export >
- Admin >
- Custom >
- Top 10 This User >
- Top 10 All Users >

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

[Back](#)

Search Criteria

[Form View](#) [Export XLS](#)

46 Records Found **Export Master Locations Only**

Loc ID	County	Community	On	From	To	At	Dir	Latest
02-2209	Alger	-	M-28			White Fish Rd	2-WAY	3670
04-4029	Alpena	-	US-23			Werth Rd	2-WAY	4358
06-4249	Arenac	Arenac	US 23			Sterling Rd	2-WAY	7392
07-1369	Baraga	Baraga	US-41			Arnheim Rd	2-WAY	3727
09-6479	Bay	-	US-10			S 7 Mile Rd	2-WAY	31598
11-7139	Berrien	-	US-31			W Bertrand Rd	2-WAY	16891
13-7069	Calhoun	-	M-60			23 Mile Rd	2-WAY	3327
13-9529	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.

Figure 30: Action Buttons

The screenshot shows a detailed traffic count record form. Annotations A, B, and C point to navigation buttons (Back, Forward, Go) at the top. Annotation D points to the Direction selection buttons (1-WAY, 2-WAY, N, S, E, W, POS, NEG). Annotation E points to the AADT table. Annotation F points to the Calendar icon in the VOLUME COUNT table.

Year	AADT	DAV. SB	R. %	D. %	PK	EK	Set
2020	3,302	570	17	89	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	3,620		16	52	3,311 (94%)	209 (6%)	MDOT

Date	Set	Total	Year	Annual Growth
Sun 12/19/2021	60	2,562	2020	-10%
Sat 12/18/2021	60	2,166	2019	2%
Fri 12/17/2021	60	3,679	2018	1%
Thu 12/16/2021	60	2,563	2017	1%
Wed 12/15/2021	60	2,776	2016	7%
Tue 12/14/2021	60	2,679	2015	4%
Mon 12/13/2021	60	2,618	2014	0%
Sun 12/12/2021	60	2,486	2013	-3%
Sat 12/11/2021	60	1,831	2012	2%
Fri 12/10/2021	60	3,413	2011	36%

Date	Set	Total
Mon 12/19/2016	60	3,227
Sun 12/18/2016	60	3,946
Sat 12/17/2016	60	3,363
Fri 12/16/2016	60	4,733
Thu 12/15/2016	60	3,872
Wed 12/14/2016	60	3,528
Tue 12/13/2016	60	6,296
Mon 12/12/2016	60	6,517
Sat 12/11/2016	60	5,681
Fri 12/10/2016	60	6,296

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.

AADT Codes

Figure 31: AADT Table

AADT								Graph
	Year	AADT	DHV-30	K %	D %	PA	BC	Src
<input checked="" type="checkbox"/> <input type="checkbox"/>	2019	10,935 ³				10,442 (95%)	493 (5%)	Grown from 2018
<input checked="" type="checkbox"/> <input type="checkbox"/>	2018	11,023	880	8	50	9,601 (87%)	1,421 (13%)	
<input type="checkbox"/> <input checked="" type="checkbox"/>	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.

Table 1: AADT Codes with Description

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.

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

$$\text{AADT} = \text{VOL} \times \text{SF} \times \text{AF}$$

AADT = Annual Average Daily Traffic

VOL = 24-hour volume count

SF = applicable month/day combination seasonal factor

AF = applicable axle-correction factor