

# Appendix

## MOVES Tools



# CDM: Using the Average Annual Daily Vehicle Miles Traveled (AADVMT) Converter



# AADVMT Converter

- EPA has developed a spreadsheet based converter to scale up more readily available daily VMT to annual VMT
  - [www.epa.gov/moves/tools-develop-or-convert-moves-inputs#fleet](http://www.epa.gov/moves/tools-develop-or-convert-moves-inputs#fleet)
- Users can enter daily VMT entered using true annual average daily VMT or average weekday VMT
  - Modifying Monthly and Weekend-day Adjustment Factors provide user flexibility to determine the amount of VMT for any HPMS class, in any month, for either type of day
- Use the converter if you have daily VMT but need the flexibility afforded by the option to include Monthly and Weekend-day adjustment factors
  - Currently, the converter only works with VMT by HPMS class

# AADVMT Converter

- Recommended approach is to enter adjustment factors for all HPMS classes, months and days
  - That allows resulting tables to be used for analysis covering any mix of vehicles and time periods
- This converter uses MOVES inputs (not MOBILE), so it can be used with VMT data gathered according to MOVES (or FHWA) vehicle types
- We will describe how to use this converter to get annual VMT inputs for our county inventory exercise in Module 3
  - This is an alternative approach to the daily input method used in Module 3

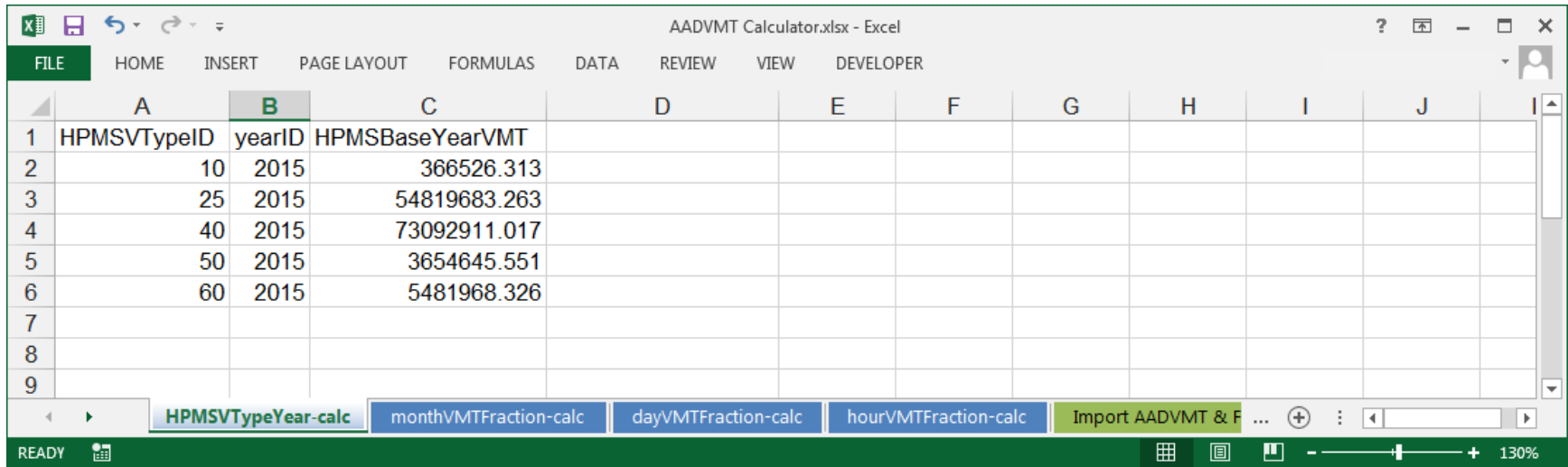
# AADVMT Converter

	A	B	C	D	E	F	G	H	I
1	<b>Welcome (READ FIRST)</b>								
	<p>Welcome to the AADVMT Converter Tool for MOVES2014. This excel file allows users to define average annual daily vehicle miles traveled (AADVMT) by the five MOVES-HPMS classes and generate the equivalent HPMSVTypeYear, monthVMTFraction, and dayVMTFraction tables for MOVES2014 data inputs. The AADVMT Calculator allows users to specify if their daily VMT (AADVMT) represents an average weekday, or an average day. Additionally, users can specify if their daily VMT (AADVMT) should apply to a specific month (e.g., weekday VMT for July).</p> <p>Instructions: Follow the numbered steps below and input your local data if available or applicable.</p> <p>NOTE: This converter was designed to work for a single calendar year and AADVMT combination. After entering local AADVMT, the resulting data in the HPMSVTypeYear table will represent the equivalent annual VMT based on selections made by the user, or the manually defined Monthly/Weekend-Day Adjustment Factors. DO NOT DELETE ANY ROWS OR COLUMNS OR CHANGE COLUMN NAMES OR ORDER ON ANY OF THE WORKSHEETS.</p> <p>Also, note that rural vs. urban Weekend-Day Adjustment Factors will apply to all road types within a county. Users should select the option that describes the majority of roadtypes in the modeled county. After supplying all the necessary information and making the appropriate selections, the HPMSVTypeYear-calc, monthVMTFraction-calc, and dayVMTFraction-calc tables may be imported into the VMT tab of the county data manager in MOVES. Additionally, if no local hourly VMT distribution is available, the hourVMTFraction-calc table may also be imported. This table contains the MOVES default hourly VMT distributions.</p>								
2	Version 11/21/14								
3									
4	<b>Calculation Inputs: follow the numbered steps below and make your selection or input data into the black outlined boxes.</b>								
5	1) Please specify an analysis year: <input type="text"/>								
6									
7	2) Enter your AADVMT values by HPMS type below:			Adjustment Factors by HPMS Vehicle Type & Month					
8	HPMSVtypeID	yearID	AADVMT	HPMSVtypeID	monthID	Month	Monthly Adjustment Factor	Weekend-Day Adjustment Factor	
9	10	0	<input type="text"/>	10	1	January	0.3144	1.0000	
10	25	0	<input type="text"/>	10	2	February	0.2843	1.0000	
11	40	0	<input type="text"/>	10	3	March	0.6999	1.0000	
12	50	0	<input type="text"/>	10	4	April	1.2085	1.0000	
13	60	0	<input type="text"/>	10	5	May	1.4327	1.0000	
14	3) Are your AADVMT values for an average day or			10	6	June	1.5229	1.0000	
15	an average weekday? <input type="text" value="Average day"/>			10	7	July	1.5995	1.0000	
16				10	8	August	1.6186	1.0000	
17	4) Is the AADVMT above for an average day in a specific			10	9	September	1.3589	1.0000	
18	month (i.e. July average daily VMT)? <input type="text" value="No"/>			10	10	October	1.1401	1.0000	
	HPMSVTypeYear-calc		monthVMTFraction-calc	dayVMTFraction-calc		hourVMTFraction-calc	Input	...	

# AADVMT Converter

- Converter has multiple worksheet tabs:
  - White tab labeled “Input” for entering local data
  - Three red tabs contain default monthly, daily, and hourly VMT fractions
  - Three blue tabs contain calculated annual VMT by HPMS class, and calculated monthly and daily VMT fractions based on data entered in Input tab
  - A fourth blue tab contains the same default hourly VMT fractions as the similar red tab. Use this tab to enter local hourly VMT fractions.
- When daily VMT is entered in VMT converter, annual VMT is generated in **HPMSVTypeYear-calc** table
  - Can be directly imported into the MOVES CDM
- Appropriate Monthly and Weekend Day Adjustment factors should be entered to generate **monthVMTFraction** and **dayVMTFraction** tables that correspond to the calculated annual VMT

# AADVMT - Input Table: HPMSVTypeYear



The screenshot shows the 'AADVMT Calculator.xlsx' spreadsheet in Excel. The 'HPMSVTypeYear-calc' worksheet is active, displaying a table with the following data:

	A	B	C	D	E	F	G	H	I	J	K
	HPMSVTypeID	yearID	HPMSBaseYearVMT								
1											
2		10	2015	366526.313							
3		25	2015	54819683.263							
4		40	2015	73092911.017							
5		50	2015	3654645.551							
6		60	2015	5481968.326							
7											
8											
9											

The bottom of the spreadsheet shows several tabs: 'HPMSVTypeYear-calc' (selected), 'monthVMTFraction-calc', 'dayVMTFraction-calc', 'hourVMTFraction-calc', and 'Import AADVMT & F ...'. The status bar at the bottom indicates 'READY' and a zoom level of 130%.

- HPMSBaseYearVMT is calculated from daily VMT based on month and weekend adjustment factors
- If VMT for an HPMS class was not entered, this table should report a zero for the HPMSBaseYearVMT

# AADVMT - Input Table: MonthVMTFraction

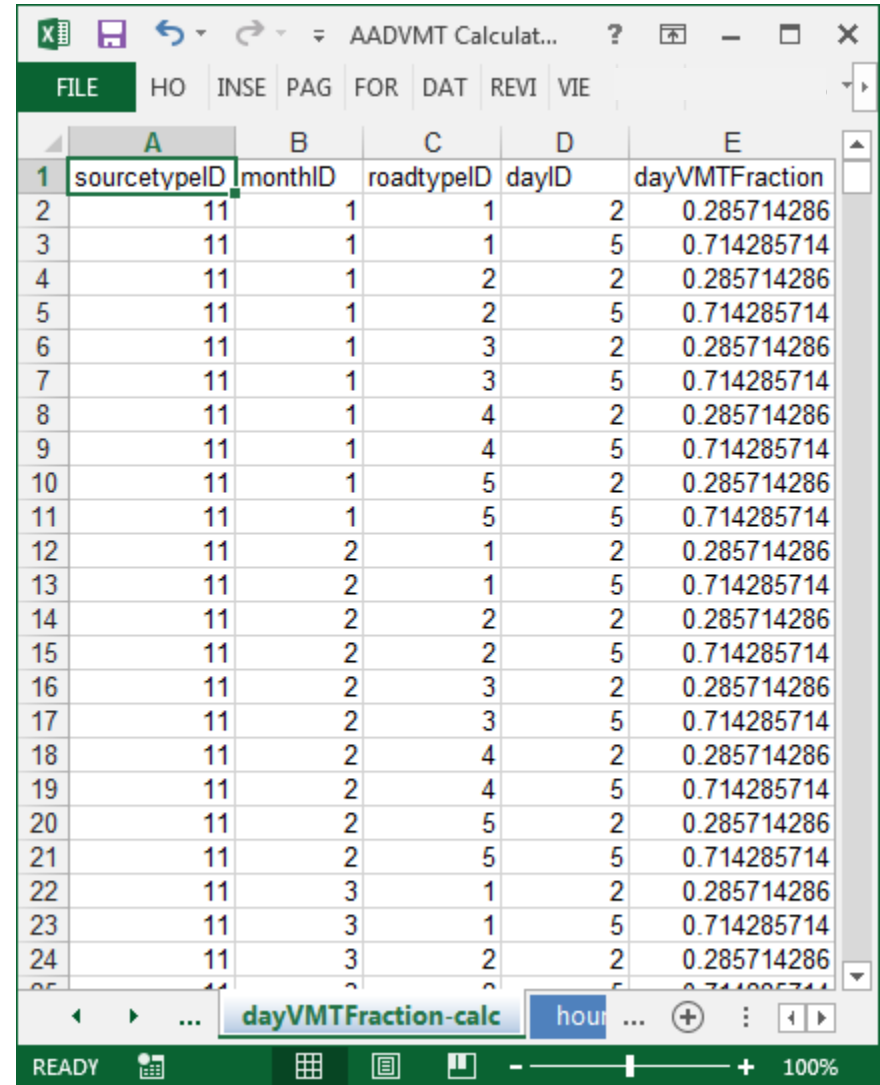
- MonthVMTFraction values are calculated based on adjustment factors provided by the user and number of days in the month
  - Sum of MonthVMTFraction will always total 1 for each source type

	A	B	C	D	E
1	sourcetypeID	monthID	monthVMTFraction		
2	11	1	0.0265932		
3	11	2	0.0217221		
4	11	3	0.0591987		
5	11	4	0.0989131		
6	11	5	0.1211723		
7	11	6	0.1246485		
8	11	7	0.1352783		
9	11	8	0.1368970		
10	11	9	0.1112213		
11	11	10	0.0964291		
12	11	11	0.0434144		
13	11	12	0.0245120		
14	21	1	0.0743926		
15	21	2	0.0640922		
16	21	3	0.0831931		
17	21	4	0.0810716		
18	21	5	0.0890676		
19	21	6	0.0869517		
20	21	7	0.0939761		
21	21	8	0.0951005		
22	21	9	0.0834144		
23	21	10	0.0880631		
24	21	11	0.0790286		
25	21	12	0.0816185		



# AADVMT - Input Table: DayVMTFraction

- DayVMTFraction values are calculated based on adjustment factors provided by the user
  - Sum of DayVMTFraction will always total 1 for each source type, month, road type combination
- DayVMTFraction values will be the same for all road types, but can vary by month



The screenshot shows a spreadsheet titled "AADVMT Calculat...". The spreadsheet has columns labeled A through E. Column A is "sourcetypeID", Column B is "monthID", Column C is "roadtypeID", Column D is "dayID", and Column E is "dayVMTFraction". The data is organized into rows, with the first row being the header. The values in the "dayVMTFraction" column are consistently 0.285714286 for each row, indicating that the sum of these values for each combination of source type, month, and road type is 1.

	A	B	C	D	E
1	sourcetypeID	monthID	roadtypeID	dayID	dayVMTFraction
2	11	1	1	2	0.285714286
3	11	1	1	5	0.714285714
4	11	1	2	2	0.285714286
5	11	1	2	5	0.714285714
6	11	1	3	2	0.285714286
7	11	1	3	5	0.714285714
8	11	1	4	2	0.285714286
9	11	1	4	5	0.714285714
10	11	1	5	2	0.285714286
11	11	1	5	5	0.714285714
12	11	2	1	2	0.285714286
13	11	2	1	5	0.714285714
14	11	2	2	2	0.285714286
15	11	2	2	5	0.714285714
16	11	2	3	2	0.285714286
17	11	2	3	5	0.714285714
18	11	2	4	2	0.285714286
19	11	2	4	5	0.714285714
20	11	2	5	2	0.285714286
21	11	2	5	5	0.714285714
22	11	3	1	2	0.285714286
23	11	3	1	5	0.714285714
24	11	3	2	2	0.285714286
25	11	3	2	5	0.714285714

# AADVMT - Input Table: HourVMTFraction

- Local HourVMTFraction values must be entered manually in the table in the hourVMTFraction-calc tab
  - Sum of HourVMTFraction must always total 1 for each source type, road type, and day ID combination
- HourVMTFraction values will be the same for all months

	A	B	C	D	E
	sourceTypeID	roadTypeID	dayID	hourID	hourVMTFraction
1	11	1	2	1	0.0214739
2	11	1	2	2	0.0144428
3	11	1	2	3	0.0109684
4	11	1	2	4	0.00749451
5	11	1	2	5	0.00683855
6	11	1	2	6	0.0103588
7	11	1	2	7	0.0184304
8	11	1	2	8	0.0268117
9	11	1	2	9	0.0363852
10	11	1	2	10	0.0475407
11	11	1	2	11	0.0574664
12	11	1	2	12	0.0650786
13	11	1	2	13	0.0713228
14	11	1	2	14	0.0714917
15	11	1	2	15	0.0717226
16	11	1	2	16	0.0720061
17	11	1	2	17	0.0711487
18	11	1	2	18	0.0678874
19	11	1	2	19	0.0617718
20	11	1	2	20	0.0516882
21	11	1	2	21	0.0428658
22	11	1	2	22	0.0380302
23	11	1	2	23	0.0322072
24	11	1	2		

# AADVMT Converter: Exercise

- Let's enter our VMT and VMT fractions data into the CDM for our county-level exercise
- For this example, we don't know annual VMT but we do know daily VMT as follows:
  - Passenger vehicles = 3,000,000
  - Transit buses = 10,000
  - In this case, the VMT is for an average weekday in July
- Use the Average Annual Daily Vehicle Miles Traveled (AADVMT) converter to generate the annual/ month/day/hour VMT tables for the Vehicle Type VMT tab
  - AADVMT Converter Tool is an Excel file located in the MOVES2014 Tools folder in the Course Files folder
  - Open the Converter Tool and save it to the County Inventory Exercise folder as *lake\_AADVMT Converter.xlsx*

# AADVMT Converter: Exercise

Instructions for entering information into the AADVMT Converter:

- 1) Specify *2015* for the analysis year
- 2) Enter our known daily VMT for each HPMS vehicle type:
  - Passenger vehicles (HPMSVtypeID 25) = 3,000,000
  - Transit buses (HPMSVtypeID 40) = 10,000
  - Enter 0 for all other HPMSVtypeIDs (no VMT for these types)
- 3) For step 3 in the AADVMT Converter, select *Average weekday*.

# AADVMT Converter: Exercise

4) For step 4 in the AADVMT Converter, select *Yes* to set a monthly adjustment factor (column H) of 1.0 indicating the VMT is from a particular month (e.g., July).

5) Skip to step 6.

For question 6a, select *Yes*.

For question 6b, select *Urban* to use the MOVES urban default Weekend-Day Adjustment Factor (column I) of 0.7793. This indicates that weekend traffic is 77.93% of weekday traffic.

6) For step 7, select *Yes* to use default hourVMTFraction values.

7) Save file as *lake\_AADVMT Converter.xlsx*

# AADVMT Converter: Exercise

lake\_AADVMT Converter.xlsx - Excel

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW ESRI MAPS ACROBAT

C5

**1 Welcome (READ FIRST)**

Welcome to the AADVMT Converter Tool for MOVES2014. This Excel file allows users to define average annual daily vehicle miles traveled (AADVMT) by the five MOVES HPMS classes and generate the equivalent HPMSVTypeYear, monthVMTFraction, and dayVMTFraction tables for MOVES2014 data inputs. The AADVMT Calculator allows users to specify if their daily VMT (AADVMT) represents an average weekday, or an average day. Additionally, users can specify if their daily VMT (AADVMT) should be adjusted to a specific month (e.g., weekday VMT for July).

Instructions: Follow the numbered steps below and enter your local data if available or applicable.

NOTE: This converter was designed to work for a single calendar year and AADVMT combination. After entering local AADVMT, the resulting data in the HPMSVTypeYear table will represent the equivalent annual VMT based on selections made by the user, or the manually defined Monthly/Weekend-Day Adjustment Factors. DO NOT DELETE ANY ROWS OR COLUMNS OR CHANGE COLUMN NAMES OR ORDER ON ANY OF THE WORKSHEETS.

Also, note that rural vs. urban Weekend-Day Adjustment Factors will apply to all road types within a county. Users should select the option that describes the majority of roadtypes in the modeled county. After supplying all the necessary information and making the appropriate selections, the HPMSVTypeYear-calc, monthVMTFraction-calc, and dayVMTFraction-calc tables may be imported into the VMT tab of the county data manager in MOVES. Additionally, if no local hourly VMT distribution is available, the hourVMTFraction-calc table may also be imported. This table contains the MOVES default hourly VMT distributions.

2 Version 11/21/14

3

**4 Calculation Inputs: follow the numbered steps below and make your selection or input data into the black outlined boxes.**

5 1) Please specify an analysis year:

6

7 2) Enter your AADVMT values by HPMS type below:

AADVMT by HPMS Type			Adjustment Factors by HPMS Vehicle Type & Month				
HPMSVtypeID	yearID	AADVMT	HPMSVtypeID	monthID	Month	Monthly Adjustment Factor	Weekend-Day Adjustment Factor
10	0	<input type="text"/>	10	1	January	0.3144	
25	0	<input type="text"/>	10	2	February	0.2843	
40	0	<input type="text"/>	10	3	March	0.6999	
50	0	<input type="text"/>	10	4	April	1.2085	
60	0	<input type="text"/>	10	5	May	1.4327	
			10	6	June	1.5229	
			10	7	July	1.5995	
			10	8	August	1.6186	
			10	9	September	1.3589	
			10	10	October	1.1401	
			10	11	November	0.6684	
			10	12	December	0.6684	

8 HPMSVtypeID yearID AADVMT

9 10 0

10 25 0

11 40 0

12 50 0

13 60 0

14 3) Are your AADVMT values for an average day or

15 an average weekday?  Average day

16

17 4) Is the AADVMT above for an average day in a specific

18 month (i.e. July average daily VMT)?  No

19

hourVMTFraction-calc Input monthVMTFraction-default dayVMTFraction-default hourVMTFraction-defa ...

READY 100%

# AADVMT Converter: Exercise

lake\_AADVMT Converter.xlsx - Excel

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW ESRI MAPS ACROBAT

C15 : Average weekday

	A	B	C	D	E	F	G	H	I
3									
4	<b>Calculation Inputs: follow the numbered steps below and make your selection or input data into the black outlined boxes.</b>								
5	1) Please specify an analysis year:		2015						
6									
7	2) Enter your AADVMT values by HPMS type below:			<b>Adjustment Factors by HPMS Vehicle Type &amp; Month</b>					
8	HPMSVtypeID	yearID	AADVMT	HPMSVtypeID	monthID	Month	Monthly Adjustment Factor	Weekend-Adjustment Factor	
9	10	2015	0	10	1	January	1.0000		
10	25	2015	3000000	10	2	February	1.0000		
11	40	2015	10000	10	3	March	1.0000		
12	50	2015	0	10	4	April	1.0000		
13	60	2015	0	10	5	May	1.0000		
14	3) Are your AADVMT values for an average day or			10	6	June	1.0000		
15	an average weekday?			10	7	July	1.0000		
16	Average weekday			10	8	August	1.0000		
17	4) Is the AADVMT above for an average day in a specific			10	9	September	1.0000		
18	month (i.e. July average daily VMT)?			10	10	October	1.0000		
19	Yes			10	11	November	1.0000		
20	5) Monthly Adjustment Factors:			10	12	December	1.0000		
21	5a) Use MOVES Defaults?			25	1	January	1.0000		
22	5b) If no to 5a, manually input local adjustment factors by month and			25	2	February	1.0000		
23	HPMS type in column H in the table at right.			25	3	March	1.0000		
24				25	4	April	1.0000		
25	6) Weekend-day Adjustment Factors:			25	5	May	1.0000		
26	6a) Use MOVES Defaults?			25	6	June	1.0000		
27	6b) If yes, specify if urban or rural county:			25	7	July	1.0000		
28	6c) If no to 6a, input a local adjustment factor below:			25	8	August	1.0000		
29	Local user supplied adjustment factor:			25	9	September	1.0000		
30	Note: If you have local data for weekend-day adjustment factors that vary by HPMS type,			25	10	October	1.0000		
31	enter that information into column I manually.			25	11	November	1.0000		
32	7) Use MOVES defaults for hourVMTFraction?			25	12	December	1.0000		
33	Note: If you have local data for hourVMTFraction, enter that information into column E of			40	1	January	1.0000		
34	the hourVMTFraction-calc sheet manually.			40	2	February	1.0000		
35				40	3	March	1.0000		
36				40	4	April	1.0000		
37				40	5	May	1.0000		

HPMSVTypeYear-calc monthVMTFraction-calc dayVMTFraction-calc hourVMTFraction-calc Input mo ...

READY 100%

# HPMSVtypeYear-calc Tab

	A	B	C	D	E	F	G	H	I	J
1	HPMSVTypeID	yearID	HPMSBaseYearVMT							
2		10	2015	0.00						
3		25	2015	1025942766.45						
4		40	2015	3419809.22						
5		50	2015	0.00						
6		60	2015	0.00						
7										
8										
9										
10										
11										
12										
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28										



# MonthVMTFraction-calc Tab

Monthly VMT fractions by MOVES source type is calculated in the monthVMTFraction-calc tab. This tab can be imported into the CDM.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	sourcetypeID	monthID	monthVMTFraction													
2	11	1	0.0000000													
3	11	2	0.0000000													
4	11	3	0.0000000													
5	11	4	0.0000000													
6	11	5	0.0000000													
7	11	6	0.0000000													
8	11	7	0.0000000													
9	11	8	0.0000000													
10	11	9	0.0000000													
11	11	10	0.0000000													
12	11	11	0.0000000													
13	11	12	0.0000000													
14	21	1	0.0849315													
15	21	2	0.0767123													
16	21	3	0.0849315													
17	21	4	0.0821918													
18	21	5	0.0849315													
19	21	6	0.0821918													
20	21	7	0.0849315													
21	21	8	0.0849315													
22	21	9	0.0821918													
23	21	10	0.0849315													
24	21	11	0.0821918													
25	21	12	0.0849315													
26	31	1	0.0849315													
27	31	2	0.0767123													
28	31	3	0.0849315													
29	31	4	0.0821918													
30	31	5	0.0849315													
31	31	6	0.0821918													
32	31	7	0.0849315													
33	31	8	0.0849315													
34	31	9	0.0821918													
35	31	10	0.0849315													
36	31	11	0.0821918													

# DayVMTFraction-calc Tab

[illegible]

# HourVMTFraction-calc tab

AADVMT Calculator.xlsx - Excel

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	sourceTypeID	roadTypeID	dayID	hourID	hourVMTfraction											
2	11	1	2	1	0.021474											
3	11	1	2	2	0.014443											
4	11	1	2	3	0.010968											
5	11	1	2	4	0.007495											
6	11	1	2	5	0.006839											
7	11	1	2	6	0.010359											
8	11	1	2	7	0.01843											
9	11	1	2	8	0.026812											
10	11	1	2	9	0.036385											
11	11	1	2	10	0.047541											
12	11	1	2	11	0.057466											
13	11	1	2	12	0.065079											
14	11	1	2	13	0.071323											
15	11	1	2	14	0.071492											
16	11	1	2	15	0.071723											
17	11	1	2	16	0.072006											
18	11	1	2	17	0.071149											
19	11	1	2	18	0.067887											
20	11	1	2	19	0.061772											
21	11	1	2	20	0.051688											
22	11	1	2	21	0.042866											
23	11	1	2	22	0.03803											
24	11	1	2	23	0.032207											
25	11	1	2	24	0.024568											
26	11	1	5	1	0.009862											
27	11	1	5	2	0.006272											
28	11	1	5	3	0.005058											
29	11	1	5	4	0.004667											
30	11	1	5	5	0.006995											
31	11	1	5	6	0.018494											
32	11	1	5	7	0.045957											
33	11	1	5	8	0.069644											
34	11	1	5	9	0.060828											
35	11	1	5	10	0.050286											
36	11	1	5	11	0.049935											

Default hour fractions by MOVES source type are available in the hourVMTFraction-default tab and are repeated in the hourVMTFraction-calc tab. If you have local hour fractions, replace the default values in the hourVMTfraction-calc tab. For this exercise, we have opted to use MOVES default hour VMT fractions in the hourVMTfraction-calc tab without change. We will import this tab into the CDM.

HPMSVTypeYear-calc monthVMTFraction-calc dayVMTFraction-calc **hourVMTFraction-calc** Import AADVMT & F ...

READY 100%

# Entering Vehicle Type VMT Data

The screenshot shows the 'MOVES County Data Manager' application window. The 'Vehicle Type VMT' tab is selected, indicated by a green checkmark. Other tabs include 'Hotelling', 'I/M Programs', 'Retrofit Data', 'Generic', 'Tools', 'Ramp Fraction', 'Road Type Distribution', 'Source Type Population', 'Starts', 'RunSpec Summary', 'Database', 'Age Distribution', 'Average Speed Distribution', 'Fuel', and 'Meteorology Data'. The 'Description of Imported Data' section is empty. Below this, there are radio buttons for 'Input VMT by:' (HPMS, Source Type) and 'VMT values are:' (Annual, Daily), along with a 'Clear All' button. The main area contains four data source sections: 'HPMSVtypeYear Data Source', 'monthVMTFraction Data Source', 'dayVMTFraction Data Source', and 'hourVMTFraction Data Source', each with a 'File: (please select a file)' label and a 'Browse...' button. To the right of these sections are 'Clear Imported Data' and 'Create Template...' buttons. At the bottom right, there is an 'Import' button. A yellow text box is overlaid on the interface, providing instructions on how to import data. At the bottom of the window, there is a pink bar with the text 'Vehicle Type VMT' and a 'Done' button.

MOVES County Data Manager

Vehicle Type VMT Hotelling I/M Programs Retrofit Data Generic Tools

Ramp Fraction Road Type Distribution Source Type Population Starts

RunSpec Summary Database Age Distribution Average Speed Distribution Fuel Meteorology Data

Description of Imported Data:

Input VMT by: ☒ HPMS ☐ Source Type VMT values are: ☒ Annual ☐ Daily Clear All

HPMSVtypeYear Data Source:  
File: (please select a file) Browse...  
Clear Imported Data Create Template...

monthVMTFraction Data Source:  
File: (please select a file) Browse...  
Clear Imported Data Create Template...

dayVMTFraction Data Source:  
File: (please select a file) Browse...  
Clear Imported Data Create Template...

hourVMTFraction Data Source:  
File: (please select a file) Browse...  
Clear Imported Data Create Template...

Import

Export Default Data

Vehicle Type VMT Done

Total VMT and month, day, and hour fractions are all imported in this tab

You will have to browse/import 4 separate worksheets to complete this tab

You can save a little time by clicking Browse and Select Worksheet 4 times, then clicking Import once

# Entering Vehicle Type VMT Data

**MOVES County Data Manager**

Vehicle Type VMT (X) Hotelling (✓) I/M Programs (X) Retrofit Data (✓) Generic (✓) Tools

Ramp Fraction (✓) Road Type Distribution (X) Source Type Population (✓) Starts (✓)

RunSpec Summary Database Age Distribution (✓) Average Speed Distribution (✓) Fuel (✓) Meteorology Data (✓)

Description of Imported Data:

XLS, dayVMTFraction-calculated Clear Imported Data Create Template...

hourVMTFraction Data Source:

File: AADVMTCalculator\_HPMS\_exercise.xls Browse...

XLS, hourVMTFraction-default Clear Imported Data Create Template...

Import

Messages:

WARNING: HPMSVtypeID 10 is not used but is still imported.  
WARNING: HPMSVtypeID 20 is not used but is still imported.  
WARNING: HPMSVtypeID 30 is not used but is still imported.  
WARNING: Additional data is not used but is still imported.  
HPMSVTypeYear imported.  
WARNING: sourceTypeID 11 is not used but is still imported.  
WARNING: monthID 1 is not used but is still imported.

Export Default Data Export Imported Data

Vehicle Type VMT

Done

Importing  
complete

# Questions?

