

Step by Step Guidance:

1. Navigate to the 'VMT Calculation Tool' tab in this Excel file.
2. Enter your project details in the 'Project Name', 'Project Description', and 'Project Date and Time' fields.
3. Select your project's 'Planning Policy Area' from the drop-down menu.
This selection updates the map and sets trip distance and overlay reduction factors.
4. Add up to 10 land use configurations by filling out each row as follows:
 - a. Choose a 'Land Use Code and Descriptor' from the drop-down menu.
 - b. Select the appropriate 'Measurement Unit'.
 - c. Enter the 'Measurement Size' (numerical input).
 - d. Select 'Equation Types' for Daily, AM Peak, and PM Peak.
Default is 'Average'; use 'Fitted-Curve' if available for your land use/unit.
 - e. Review the 'Default Overlay Category' — this auto-fills but can be adjusted.
5. Ensure all required fields are complete.
Cells with missing inputs will be highlighted in yellow.
6. Click 'Generate Final Results' to calculate VMT estimates.
7. Review your results in the tables and visualizations at the bottom of the tab.
8. Save your results or make changes using the 'Clear Land Use' or 'Complete Reset' buttons.

Notes: You may encounter cautionary pop-ups when there are missing or erroneous inputs being used to generate results.

Best Practices and Sharing Results

1. Set up a separate, duplicate of this tool-file for programming each individual project.
Use the separately generated results to compare different projects, before-and-after scenarios of the same project, or different land use configuration inputs for the same group of land uses.
2. To share the generated results, access the pre-configured print settings and layout through Excel's print function. Navigate to 'File' -> 'Print' within Excel, review the print preview, and print.
The 'VMT Calculation Tool' and 'Tool Backend' tabs are ready-to-print with pre-configured settings.
3. Avoid comparing two columns or Land Use configurations within the same scenario - if they refer to the same Land Use.
Since the tool aggregates results to the Land Use level, if two columns have the same Land Use they would be aggregated to a single entry and comparison won't be possible. Generate two different scenarios to achieve this comparison.

The Montgomery County VMT Calculation Tool is funded in part by the Transportation Land-Use Connections (TLC) program of the National Capital Region Transportation Planning Board (TPB) at the Metropolitan Washington Council of Governments (COG). The TLC program supports local jurisdictions in promoting mixed-use, walkable communities and a variety of transportation alternatives.

TITLE VI NONDISCRIMINATION POLICY

The Metropolitan Washington Council of Governments (COG) operates its programs without regard to race, color, and national origin and fully complies with Title VI of the Civil Rights Act of 1964 and related statutes and regulations prohibiting discrimination in all programs and activities. For more information, to file a Title VI related complaint, or to obtain information in another language, visit www.mwcog.org/nondiscrimination or call (202) 962-3300.

El Consejo de Gobiernos del Área Metropolitana de Washington (COG) opera sus programas sin tener en cuenta la raza, el color, y el origen nacional y cumple con el Título VI de la Ley de Derechos Civiles de 1964 y los estatutos y reglamentos relacionados que prohíben la discriminación en todos los programas y actividades. Para más información, presentar una queja relacionada con el Título VI, u obtener información en otro idioma, visite www.mwcog.org/nondiscrimination o llame al (202) 962-3300.

VMT **Calculation Tool**


Montgomery Planning



National Capital Region
Transportation Planning Board

Project Name:

Project Description:

Project Date and Time:

Planning
 Policy Area:

2 - Bethesda CBD



	Land Use 1	Land Use 2	Land Use 3	Land Use 4	Land Use 5	Land Use 6	Land Use 7	Land Use 8	Land Use 9	Land Use 10
Land Use Code and Descriptor:										
Measurement unit:										
Unit-based size: (Numerical Input)										
Daily Equation Type:										
AM Peak Equation Type:										
PM Peak Equation Type:										
Default Overlay Category:										
Overwrite Overlay Category:										
	Clear Land Use 1	Clear Land Use 2	Clear Land Use 3	Clear Land Use 4	Clear Land Use 5	Clear Land Use 6	Clear Land Use 7	Clear Land Use 8	Clear Land Use 9	Clear Land Use 10

Complete Reset

Clear All Land Uses

Generate Final Results

← Input modifications detected, please refresh your results once ready.

VMT Calculation Tool

Montgomery Planning



National Capital Region
Transportation Planning Board

Project Name:

Project Description:

Project Date and Time:

Results

	Weekday VMT - Daily (miles)	Weekday VMT - AM Peak (miles)	Weekday VMT - PM Peak (Miles)
Total	0	0	0

	Weekday VMT - Daily (miles)	Weekday VMT - AM Peak (miles)	Weekday VMT - PM Peak (Miles)
No Land Use Configuration 1			
No Land Use Configuration 2			
No Land Use Configuration 3			
No Land Use Configuration 4			
No Land Use Configuration 5			
No Land Use Configuration 7			
No Land Use Configuration 8			
No Land Use Configuration 9			
No Land Use Configuration 10			

VMT Calculation Tool

Montgomery Planning



National Capital Region
Transportation Planning Board

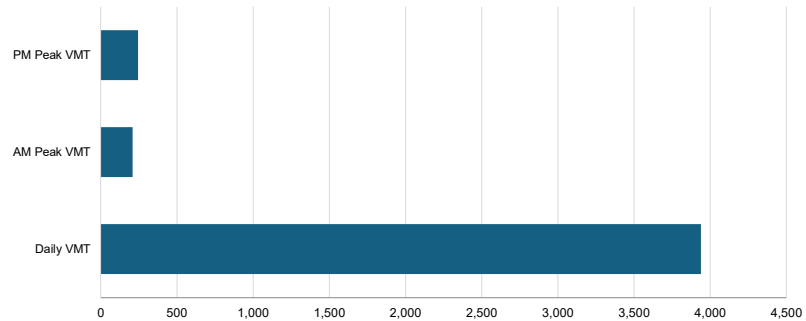
Project Name:

Project Description:

Project Date and Time:

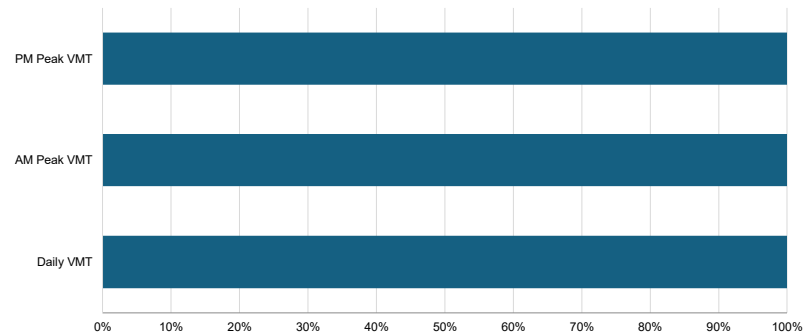
VMT By Time Period and Land Use

Total VMT by Time Period



	Daily VMT	AM Peak VMT	PM Peak VMT
■ (222) Multifamily Housing - High Rise - Not Close to Rail Transit	3,938	209	244

Distribution - VMT by Land Use



	Daily VMT	AM Peak VMT	PM Peak VMT
■ (222) Multifamily Housing - High Rise - Not Close to Rail Transit	3,938	209	244

VMT Calculation Tool

Montgomery Planning



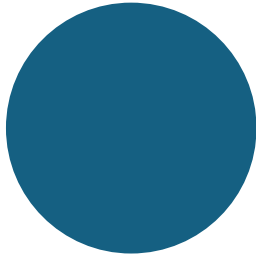
National Capital Region
Transportation Planning Board

Project Name:

Project Description:

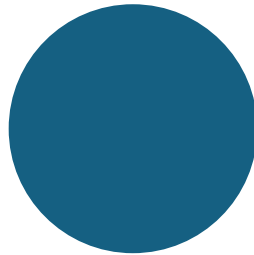
Project Date and Time:

Daily VMT Distribution



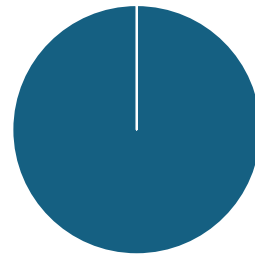
■ (222) Multifamily Housing - High Rise - Not Close to Rail Transit

AM Peak VMT Distribution



■ (222) Multifamily Housing - High Rise - Not Close to Rail Transit

PM Peak VMT Distribution



■ (222) Multifamily Housing - High Rise - Not Close to Rail Transit

-											
DailyRate											
DailyVar1											
DailyVar2											
AMRate											
AMVar1											
AMVar2											
PMRate											
PMVar1											
PMVar2											
Daily Average Calculated Trips											
AM Average Calculated Trips											
PM Average Calculated Trips											
DEFAULT Daily Form Type											
DEFAULT AM Form Type											
DEFAULT PM Form Type											
Daily Linear Calc Trips											
AM Linear Calc Trips											
PM Linear Calc Trips											
Daily Logarithmic Calc Trips											
AM Logarithmic Calc Trips											
PM Logarithmic Calc Trips											
Final Daily Fitted Curve Value Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Final AM Fitted Curve Value Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Final PM Fitted Curve Value Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Resulting Daily Trips											
Resulting AM Tris											
Resulting PM Trips											
Pre-reduction Daily Trips (rounded)											
Pre-reduction AM Trips (rounded)											
Pre-reduction PM Trips (rounded)											
Final Daily Trips Reduction Percentage (used as 'of-trips')											
Final AM Trips Reduction Percentage (used as 'of-trips')											
Final PM Trips Reduction Percentage (used as 'of-trips')											
Daily Trip Count after Reduction (Rounded)											
AM Trip Count after Reduction (Rounded)											
PM Trip Count after Reduction (Rounded)											
VMT Daily	0	0	0	0	0	0	0	0	0	0	0
VMT AM Peak	0	0	0	0	0	0	0	0	0	0	0
VMT PM Peak	0	0	0	0	0	0	0	0	0	0	0
TOTAL Weekday DAILY VMT=	0										
TOTAL Weekday AM PEAK VMT=	0										
TOTAL Weekday PM PEAK VMT=	0										

