Appendices

Appendix C Trip Generation Calculations

Appendices

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Existing Conditions									
			Weekdays			Saturday		Sunday	
General Office Building (Land Use	Sq. Ft.		AM Peak Hour	PM Peak Hour of					
Code:710)	3q. i t.	Total	of Adjacent	Adjacent Street	Total	Peak Hour	Total	Peak Hour	
			Street Traffic	Traffic					
ITE Average Daily Rate (per 1000 sq. ft.)*	22,956	10.84	1.52	1.44	2.21	0.53	0.70	0.21	
Total Average Trip Rate	-	249	35	33	51	12	16	5	
Entering/Exiting	-	124/125	31/4	6/27	25/26	7/5	8/8	3/2	

	Proposed Project							
			Weekdays		Saturday		Sunday	
Multifamily Housing (Land Use Code: 221)	D.U.		AM Peak Hour	PM Peak Hour of				
NOT close to rail transit	5.0.	Total	of Adjacent	Adjacent Street	Total	Peak Hour	Total	Peak Hour
			Street Traffic	Traffic				
ITE Average Daily Rate (per unit)	78	4.54	0.37	0.39	4.57	0.39	3.77	0.32
Total Average Trip Rate	-	354	29	30	356	30	294	25
Entering/Exiting	-	177/177	7/22	19/11	178/178	16/14	147/147	14/11

Source: ITETripGen Web-based App, Trip Generation Manual, 11th Edition https://itetripgen.org/?status=Success

^{*} Since the existing commercial square footage onsite is consistent with the square footage allowed for the site per the GPU the 22,536 square feet commercial office building on the site is used conservatively as baseline conditions.

General Office Building (710)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday

Setting/Location: General Urban/Suburban

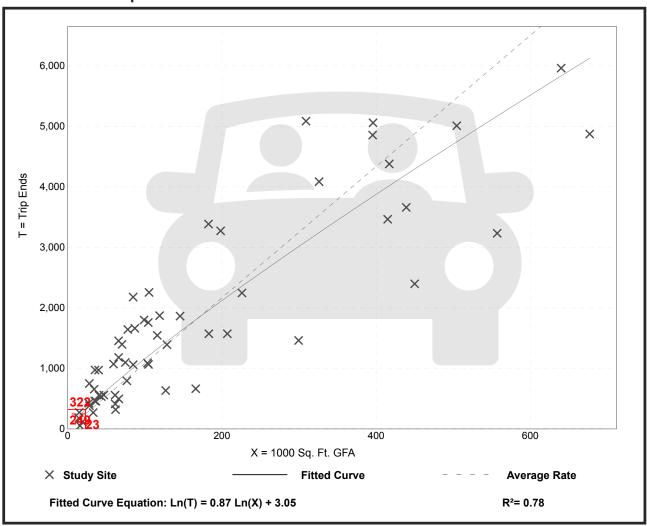
Number of Studies: 59 Avg. 1000 Sq. Ft. GFA: 163

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
10.84	3.27 - 27.56	4.76

Data Plot and Equation



Trip Gen Manual, 11th Edition

(710)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

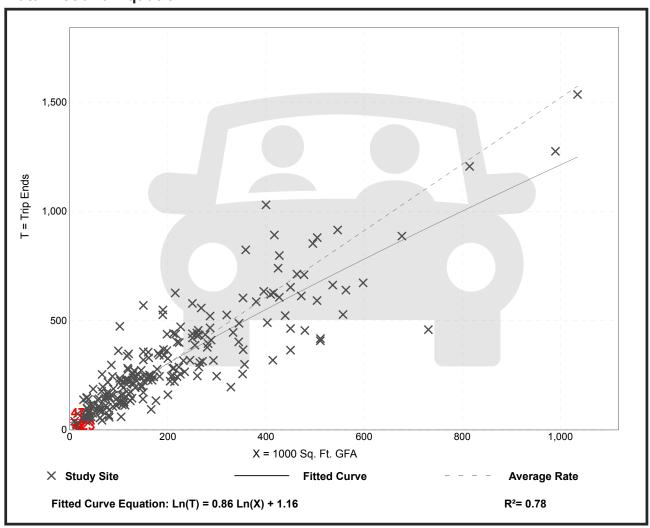
Number of Studies: 221 Avg. 1000 Sq. Ft. GFA: 201

Directional Distribution: 88% entering, 12% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

·	-	
Average Rate	Range of Rates	Standard Deviation
1.52	0.32 - 4.93	0.58

Data Plot and Equation



Trip Gen Manual, 11th Edition

(710)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

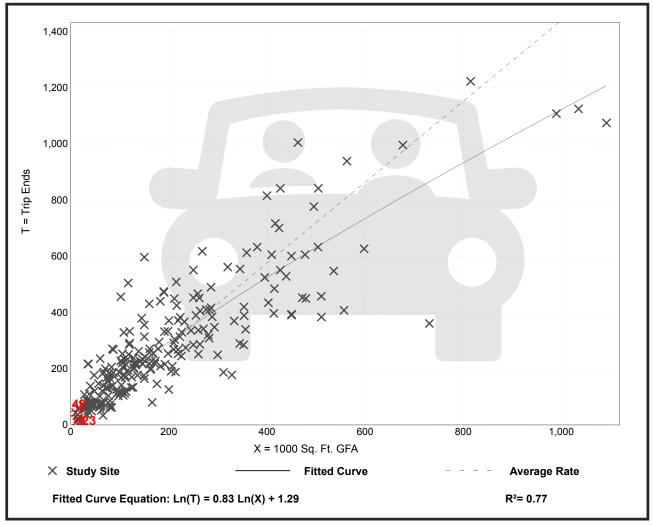
Number of Studies: 232 Avg. 1000 Sq. Ft. GFA: 199

Directional Distribution: 17% entering, 83% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
1.44	0.26 - 6.20	0.60

Data Plot and Equation



Trip Gen Manual, 11th Edition

(710)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Saturday

Setting/Location: General Urban/Suburban

Number of Studies: 5 Avg. 1000 Sq. Ft. GFA: 94

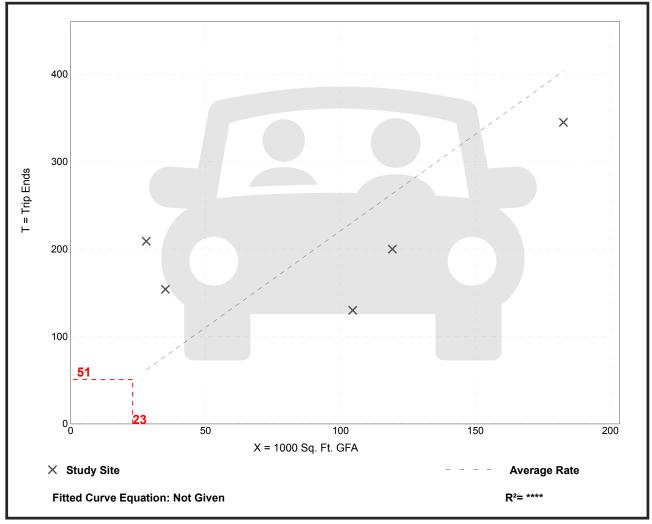
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
2.21	1.24 - 7.46	1.70

Data Plot and Equation

Caution - Small Sample Size



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General Office Building (710)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Saturday, Peak Hour of Generator

Setting/Location: General Urban/Suburban

Number of Studies: Avg. 1000 Sq. Ft. GFA: 82

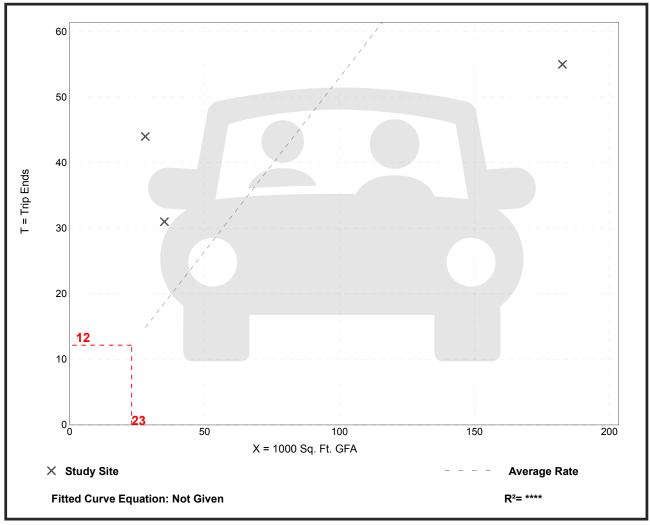
Directional Distribution: 54% entering, 46% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation	
0.53	0.30 - 1.57	0.52	

Data Plot and Equation

Caution - Small Sample Size



Trip Gen Manual, 11th Edition

(710)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Sunday

Setting/Location: General Urban/Suburban

Number of Studies: 5 Avg. 1000 Sq. Ft. GFA: 94

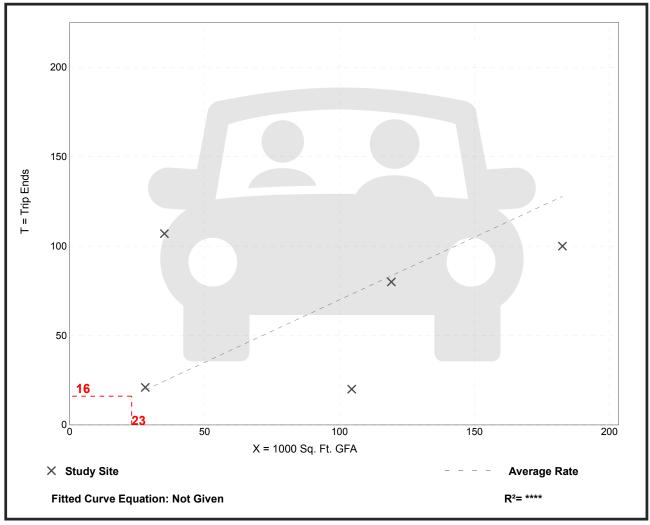
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.70	0.19 - 3.05	0.77

Data Plot and Equation

Caution - Small Sample Size



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General Office Building (710)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Sunday, Peak Hour of Generator

Setting/Location: General Urban/Suburban

Number of Studies: Avg. 1000 Sq. Ft. GFA: 82

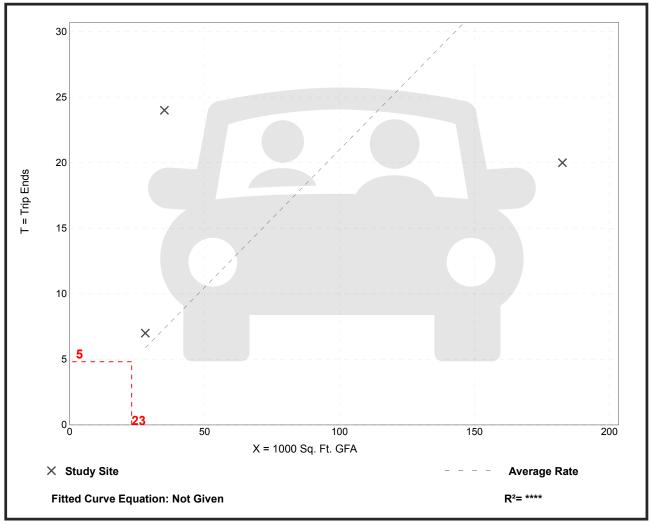
Directional Distribution: 58% entering, 42% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation		
0.21	0.11 - 0.68	0.24		

Data Plot and Equation

Caution - Small Sample Size



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