

# City of Puyallup Traffic Scoping Worksheet

## PROJECT INFORMATION

Project Title: Taco Time East Main Date: 7/12/2022

Applicant Name: Robby Tonkin Telephone Number: 425-226-6656

Project Description: One 2,975 square foot restaurant w/ drive-thru Year of Occupancy: 2023

Project Location: 1115/1129 E Main - PN: 7845100032, 0420271171 Parcel Size(s): 3.30

Proposed Number of Access Point(s): 2 Existing Number of Access Point(s): 3

Land Use	Quantity	ITE Land Use Code	Average Daily Trips	AM Peak Hour Trips*	PM Peak Hour Trips*
Existing Use(s): Existing Building will be maintained, no deductions considered					
LUC 934 (Fast-Food Restaurant w/ Drive-Thru)	2.485 ksf				
Proposed Use(s) – New Taco Time					
LUC 934 (Fast-Food Restaurant w/ Drive-Thru)	2.975 ksf	934	625.8	--	44.2
Pass-By (55%)			(765.0)	--	(54.1)
<b>Net New Trips</b>			625.8	--	44.2
<b>Traffic Impact Fees:</b> Net New PM Peak Hour Trips x \$4,500 = \$198,900					

- \* The project trips shall be rounded to the nearest tenth.
- \* The project trips shall be estimated using the ITE's *Trip Generation*, 11<sup>th</sup> Edition.
- \* Trip generation regression equations shall be used when the R<sup>2</sup> value is 0.70 or greater.
- \* For land uses that do not exist within the ITE's *Trip Generation*, actual field data shall be collected from three local facilities that have similar characteristics to the proposal.
- \* For single-family units and offices and specialty retail smaller than 30,000 SF, use ITE's *Trip Generation*, 11<sup>th</sup> Edition, average rate.

Identify all intersections that will be affected by 25 new project peak hour trips or more:

1. E Main & Project Access 4. \_\_\_\_\_
2. \_\_\_\_\_ 5. \_\_\_\_\_

Prepared by: Traffic Engineer: Aaron Van Aken Telephone Number: 253-770-1401

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### Office Use Only

TIS  TAS  TAIS  No Further Work Required

*Checklist (Please make sure you have included the following information):*

- Completed Worksheet
- Attach Site Plan
- Attach Trip Assignment
- Attach Trip Distribution
- Mail or hand deliver to 333 South Meridian, Puyallup, WA 98371 or e-mail to [standle@ci.puyallup.wa.us](mailto:standle@ci.puyallup.wa.us)

Date: July 12, 2022

To: Bryan Roberts, P.E.  
Traffic Engineer  
City of Puyallup

From: Aaron Van Aken, PE, PTOE

Subject: Taco Time East Main –Trip Generation Memo

The intent of this assessment is to provide the city of Puyallup with a trip generation memo for the proposed construction of a new Taco Time restaurant.

**Project Summary**

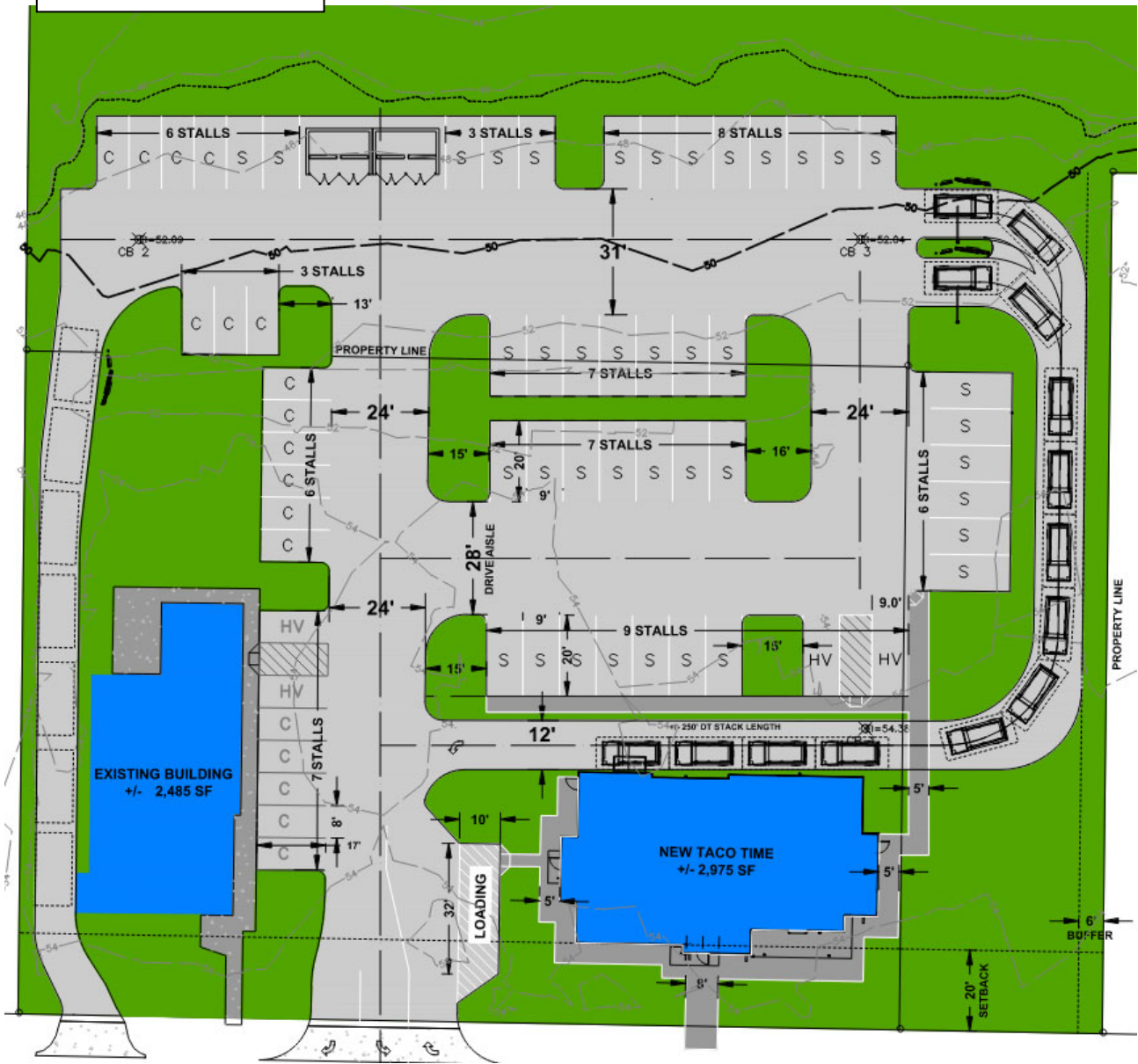
Taco Time Northwest is proposing the construction of a new 2,975 sq. ft. building on the eastern portion of parcel 7845100032 and 0420271171. This new development would eliminate the driveway on parcel 0420271171, decreasing the access points from three to two (westernmost being egress only). Additionally, the existing 2,485 sq. ft. building (presently occupied by Taco Time) would remain.

- A single building is proposed to serve as the new location for Taco Time on E Main located at 1115 E Main (parcel #s: 7845100032, 0420271171)
- The new building will offer more internal space and is estimated to generate 44 primary trips in the PM peak hour. The traditional AM peak hour will remain unaffected due to Taco Time’s operating characteristics which typically open at 10 AM. (Trip data based on ITE’s Trip Generation Manual 11th Edition)

**Figure 1: Vicinity Map**



Figure 2 – Site Plan



Data presented in this report was taken from the Institute of Transportation Engineer's publication *Trip Generation*, 11th Edition. The designated Land Use Code (LUC) is defined as LUC 934 – Fast-Food Restaurant with Drive through Window. Square footage was applied as the input variable and average rates were used in determining trip ends. Table 1 below summarizes anticipated vehicular movements for the average weekday daily trips (AWDT) and PM peak hour.

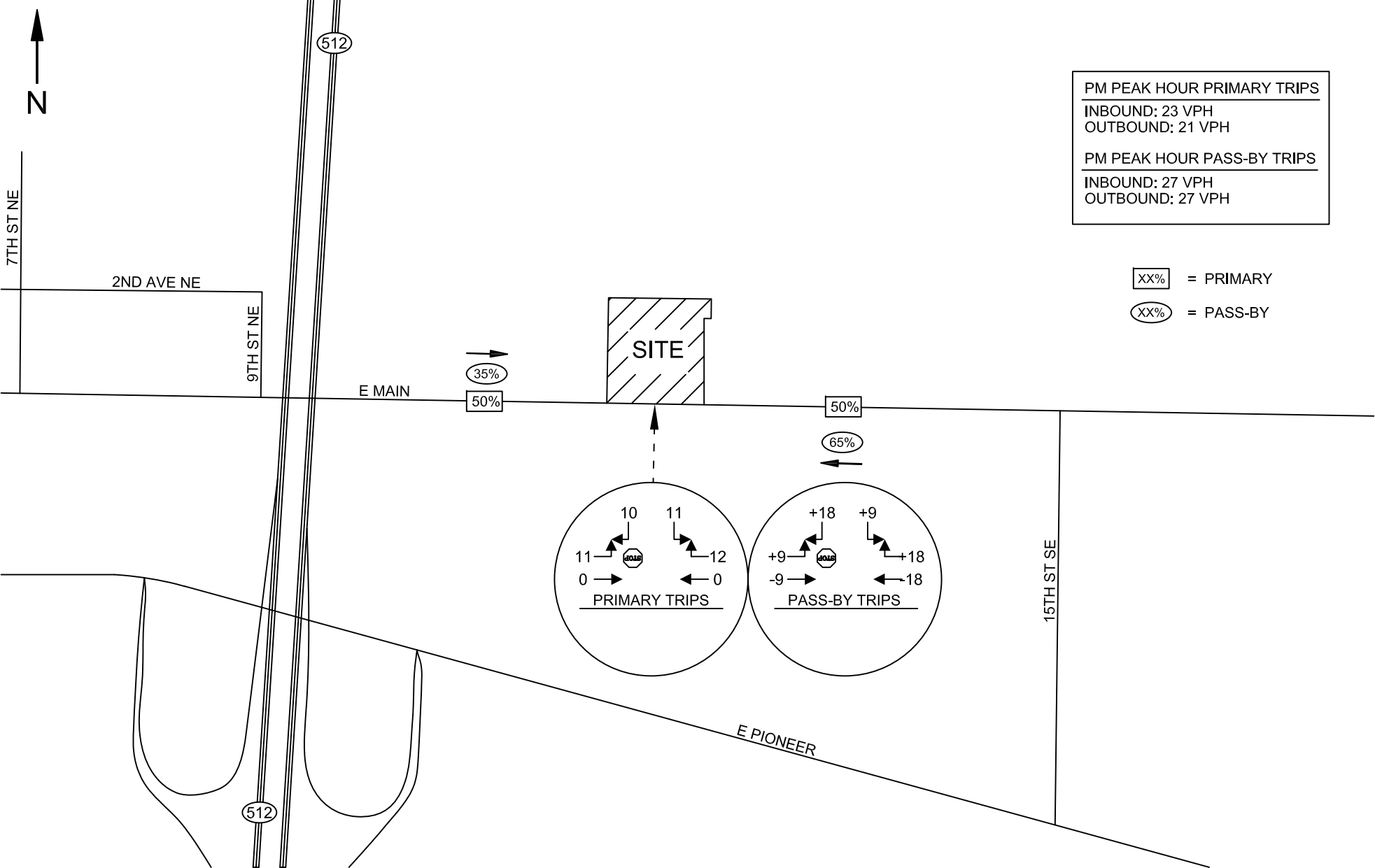
**Table 1: Project Trip Generation**

Land Use	Size	Trip Type	AWDT Rate: 467.48/1000 sf	PM Peak-Hour Trips Rate 33.03/1000 sf		
				In	Out	Total
Fast Food w/ DT (LUC 934)	2,975 sq. ft.	Primary	626	23	21	<b>44</b>
		Pass-By <sup>1</sup>	765	27	27	<b>54</b>
Total Site Driveway Trips			1391	50	48	<b>98</b>

The project is estimated to generate a site total of 98 trips in the PM peak hour. According to ITE data, over half (55%) would be in the form of pass-by—or motorists already on the adjacent street (E Main) who make an intermediate stop en route to their final destination. Pass-by trips are not considered new to the roadway system but result in turning movements at the driveway.

See Figure 3 on the following page with for the trip distribution during the critical PM peak hour. Primary trips were assigned with a roughly 50/50 east/west distribution. Pass-by trips are reflective of existing counts along E Main which have a higher westbound travel direction (~65%) in the PM peak hour.

<sup>1</sup> Institute of Transportation Engineers, *2021 Pass-By Tables for ITE Trip Gen Appendices* (2021).



# Fast-Food Restaurant with Drive-Through Window (934)

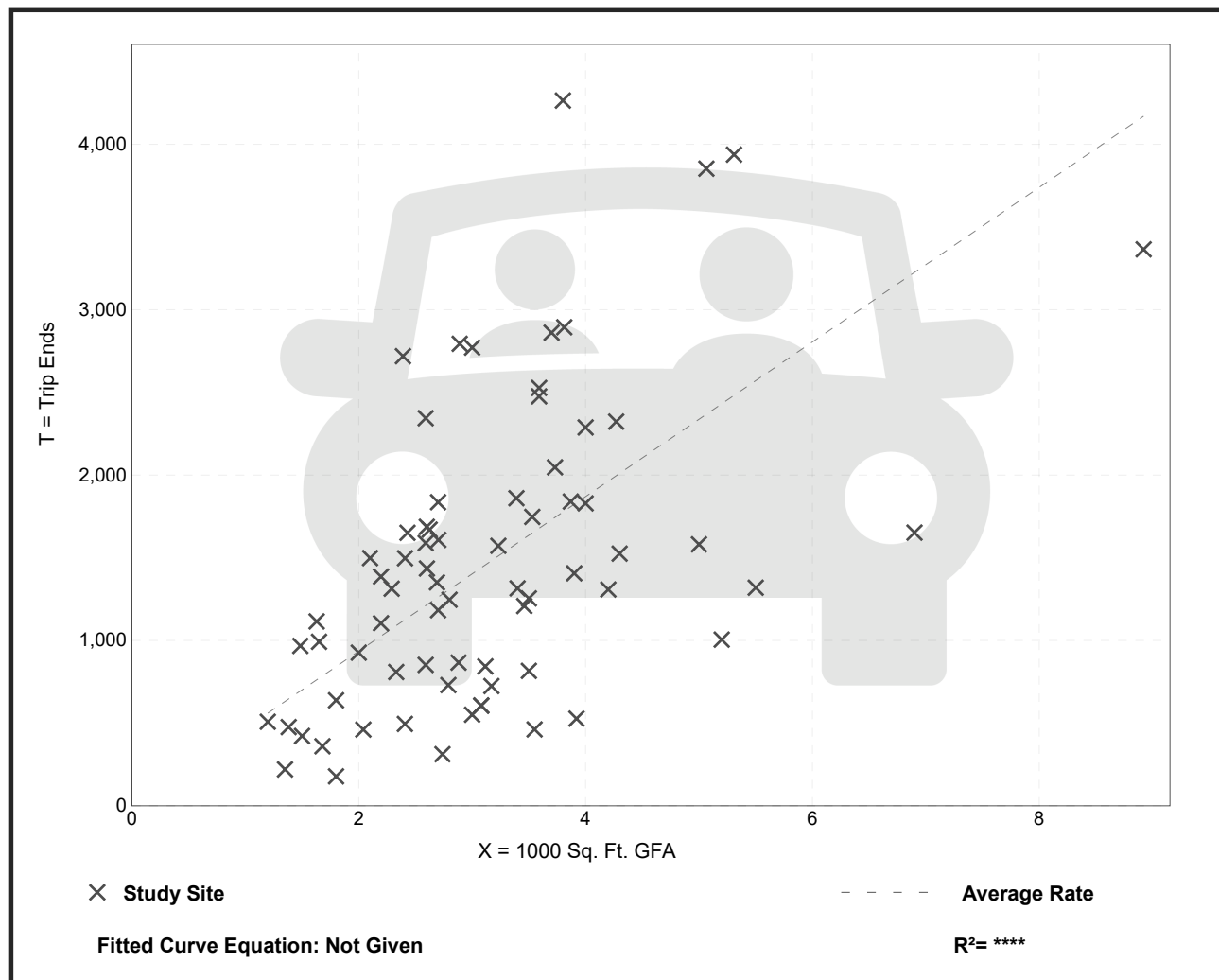
**Vehicle Trip Ends vs: 1000 Sq. Ft. GFA**  
**On a: Weekday**

**Setting/Location: General Urban/Suburban**  
Number of Studies: 71  
Avg. 1000 Sq. Ft. GFA: 3  
Directional Distribution: 50% entering, 50% exiting

## Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
467.48	98.89 - 1137.66	238.62

## Data Plot and Equation





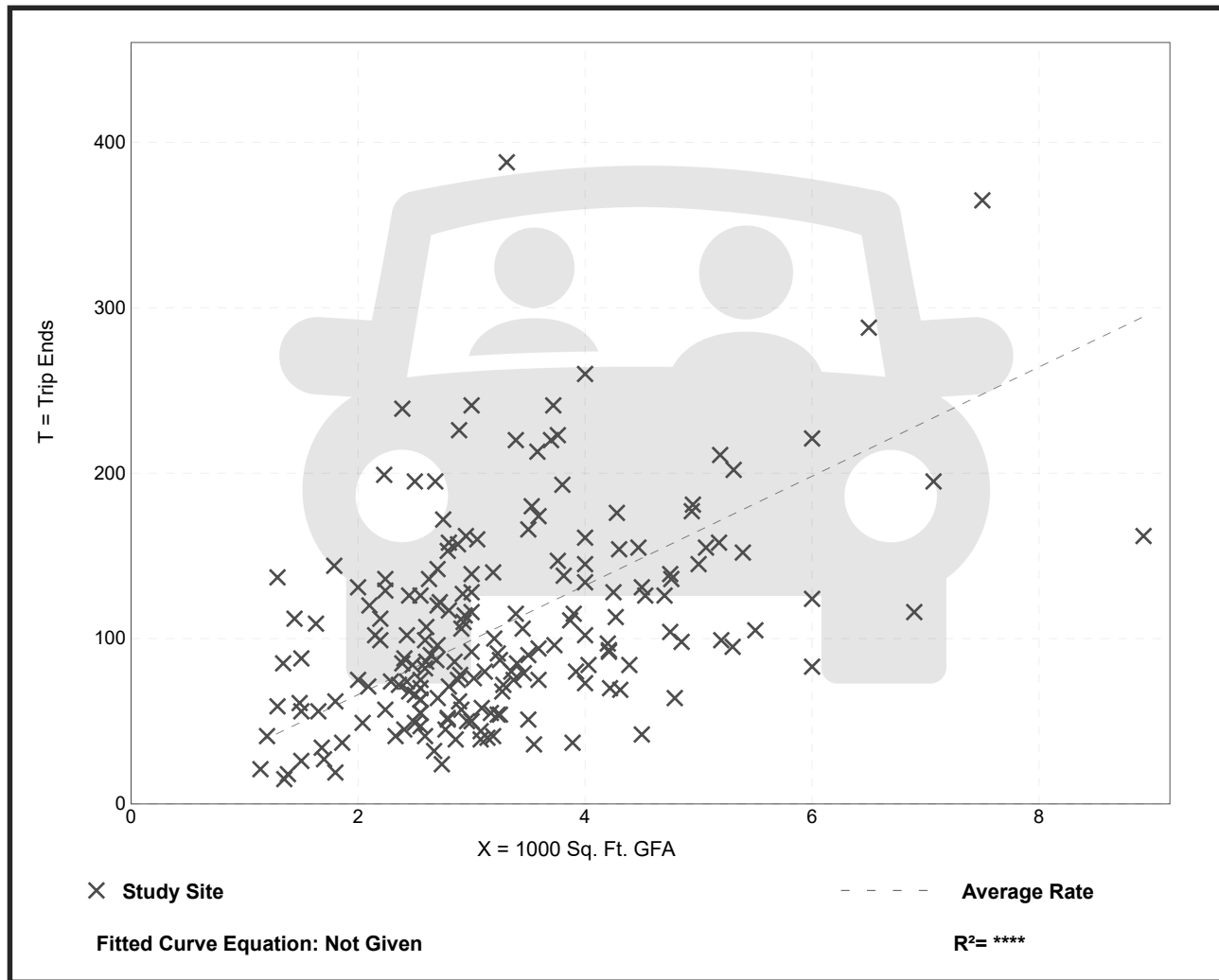
# Fast-Food Restaurant with Drive-Through Window (934)

**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: 190  
 Avg. 1000 Sq. Ft. GFA: 3  
 Directional Distribution: 52% entering, 48% exiting

## Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
33.03	8.77 - 117.22	17.59

## Data Plot and Equation



### Vehicle Pass-By Rates by Land Use

Source: ITE *Trip Generation Manual*, 11th Edition

Land Use Code	934								
Land Use	Fast-Food Restaurant with Drive-Through Window								
Setting	General Urban/Suburban								
Time Period	Weekday PM Peak Period								
# Data Sites	11								
Average Pass-By Rate	55%								
	Pass-By Characteristics for Individual Sites								
					Non-Pass-By Trips				
GFA (000)	State or Province	Survey Year	# Interviews	Pass-By Trip (%)	Primary (%)	Diverted (%)	Total (%)	Adj Street Peak Hour	Source
1.3	Kentucky	1993	—	68	22	10	32	2055	2
1.9	Kentucky	1993	33	67	24	9	33	2447	2
2.8	Florida	1995	47	66	—	—	34	—	30
2.9	Florida	1996	271	41	41	18	59	—	30
3	Kentucky	1993	—	31	31	38	69	4250	2
3.1	Florida	1995	28	71	—	—	29	—	30
3.1	Florida	1996	29	38	—	—	62	—	30
3.2	Florida	1996	202	40	39	21	60	—	30
3.3	—	1996	—	62	—	—	38	—	21
4.2	Indiana	1993	—	56	25	19	44	1632	2