

Memorandum

To: Brevard County
Planning & Development Department

From: Daniela S. Jurado, PE | Bowman

Date: 6/10/2025

Re: **Traffic Statement**
Banyan Cove Development Houston Ln, Merrit Island, Florida

Bowman has been retained by DR Horton Inc to provide a Traffic Statement for the Banyan Cove, a 22-Single family Residential development with attached units proposed along Houston Lane in Merrit Island, Florida. Access to the residential units is provided via individual driveways. The Site Plan is presented in **Attachment M-1**.

Section 62-2802 of Brevard County's Code Land Development Code requires 5 feet separation between the single-family residential unit driveways and the property line. Brevard County has expressed concerns regarding the proposed driveway separation of the individual units and its influence in the sight visibility.

Similar concerns have been posed regarding the vehicles parked on the driveways backing into the public road.

This memorandum intends to analyze the safety implications of the reduction on the separation of the driveways and of vehicles backing into the public roadway.

A review of the surrounding area showed multifamily residential units with similar parking characteristics north of the development along Lincoln Ave and Roosevelt Ave. Although the residential units are consolidated in a single lot, the spaces are proposed in arrays of four (4) parking spaces, which in turn provide less visibility for vehicles backing into the public roadway.

Given this, we reviewed the most recent 5 years of available crashes data (January 2020 to December 2024) from the Signal Four database for the segments of Lincoln Ave and Roosevelt Ave to assess if the visibility of the driveways is expected to cause any safety concerns.

The review of the crash data shows two crashes in the 5-year period, the review showed low severity with only property damage crashes, additionally none of the crashes were related to vehicles entering or exiting driveways. The crash data is presented in **Attachment M-2**.

We also calculated the anticipated site trip generation of the residential units based on the Institute of Transportation Engineers (ITE) *Trip Generation Manual* 11th Edition. The results indicate that each single-family Residential unit (attached) (LU 215) is expected to generate a on average 7 daily trips (4 inbound, 3 outbound), and 1 peak hour trip. ITE excerpts are presented in **Attachment M-3**.


The review of the area shows Houston Lane is a local County-maintained road, with a 15-mph posted speed limit and no direct connection to major roads, while Roosevelt Avenue and Lincoln Avenue are a

local County-maintained roads, with a 20-mph posted speed limits and no direct connection to major roads.

Based on the low trip generation of the proposed residential units, the low volumes anticipated at a local road, the significantly low speeds along Houston Lane, and the absence of crash history in comparable nearby developments, it is my professional opinion that the proposed driveway configuration is not expected to result in adverse safety impacts along Houston Lane.

Should you have any questions or comments regarding this methodology, please do not hesitate to call me at djurado@bowman.com.

Sincerely,



Daniela S. Jurado, PE
Team Leader-Traffic Engineering | Bowman

Attachments

Attachment M-1. Site Plan

Attachment M-2. Crash Data

Attachment M-3. ITE Trip Generation Excerpts

ATTACHMENT M-1

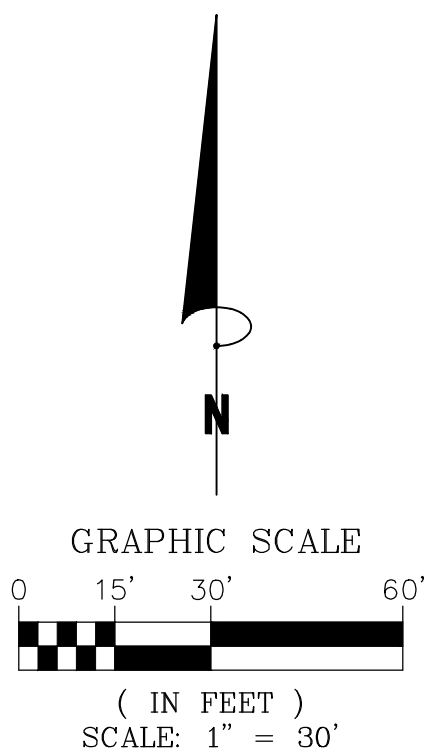
LOCAL JURISDICTION:	BREVARDO COUNTY
LAND USE CLASSIFICATION:	VACANT LAND
FUTURE LAND USE CLASSIFICATION:	RES-15 (RESIDENTIAL/15 UNITS PER ACRE
PROPERTY PARCEL ID:	24-36-22-00-42
ZONING CLASSIFICATION:	RJ-2-15 (MEDIUM-DENSITY MULTI-FAMILY RESIDENTIAL)
OVERLAY DISTRICT:	N/A
FLOOD ZONE CLASSIFICATION:	WITHIN AN AREA ZONED "X" FEMA PANEL NUMBER 12009C0340H DATED 1/29/2021
MINIMUM LOT AREA:	-
WIDTH:	-
DEPTH:	-

DIRECTION	PROPERTY USE AND ZONING	FUTURE LAND USE
EAST	HIGH DENSITY MULTI FAMILY RESIDENTIAL	RU-2-30 RESIDENTIAL (15 UNITS/AC.) RES15
SOUTH	SINGLE FAMILY RESIDENTIAL	RU-1-7 RESIDENTIAL (10 UNITS/AC.) RES10
WEST	SINGLE FAMILY RESIDENTIAL	RU-1-7 RESIDENTIAL (15 UNITS/AC.) RES15
NORTH	HIGH DENSITY MULTI FAMILY RESIDENTIAL	RU-2-30 RESIDENTIAL (15 UNITS/AC.) RES15

APARTMENT COMPLEXES	
CRITERIA FOR NUMBER OF STALLS: 1.75 SPACES/UNIT	
TOTAL REQUIRED PARKING: 22 X 1.75 = 39 SPACES	
PROVIDED PARKING SPACES:	
STANDARD SPACES 9'x20' (22 UNITS X 2 SPACES)	44 SPACES
PROVIDED PARKING SPACES	44 SPACES

Land Use	Land Use Code ⁽¹⁾	Intensity	Units	Time Period	Average Rate ⁽¹⁾	Development Trips ⁽¹⁾		
						In	Out	Total
Proposed:				Weekday	7.20	79	79	158
Single-Family Attached Housing	215	22	Dwelling Units	AM ⁽²⁾	0.48	3	8	11
				PM ⁽²⁾	0.57	7	6	13

An aerial photograph of a large, modern townhome complex. The complex consists of several two-story units, each with a white garage door and a front porch. The units are arranged in a long row, with a paved road in the foreground. The surrounding area is lush with green trees and vegetation. In the background, other houses and a parking lot are visible. The image is framed by a black border with white arrows on the left and right sides, suggesting it is part of a larger presentation or gallery.



ATTACHMENT M-2

Crash data available from January 1, 2014 to March 28, 2025 [Learn Why](#). Last data update completed May 29, 2025 at 3:44 AM.

[Disclaimer](#) [Data Dictionary](#)

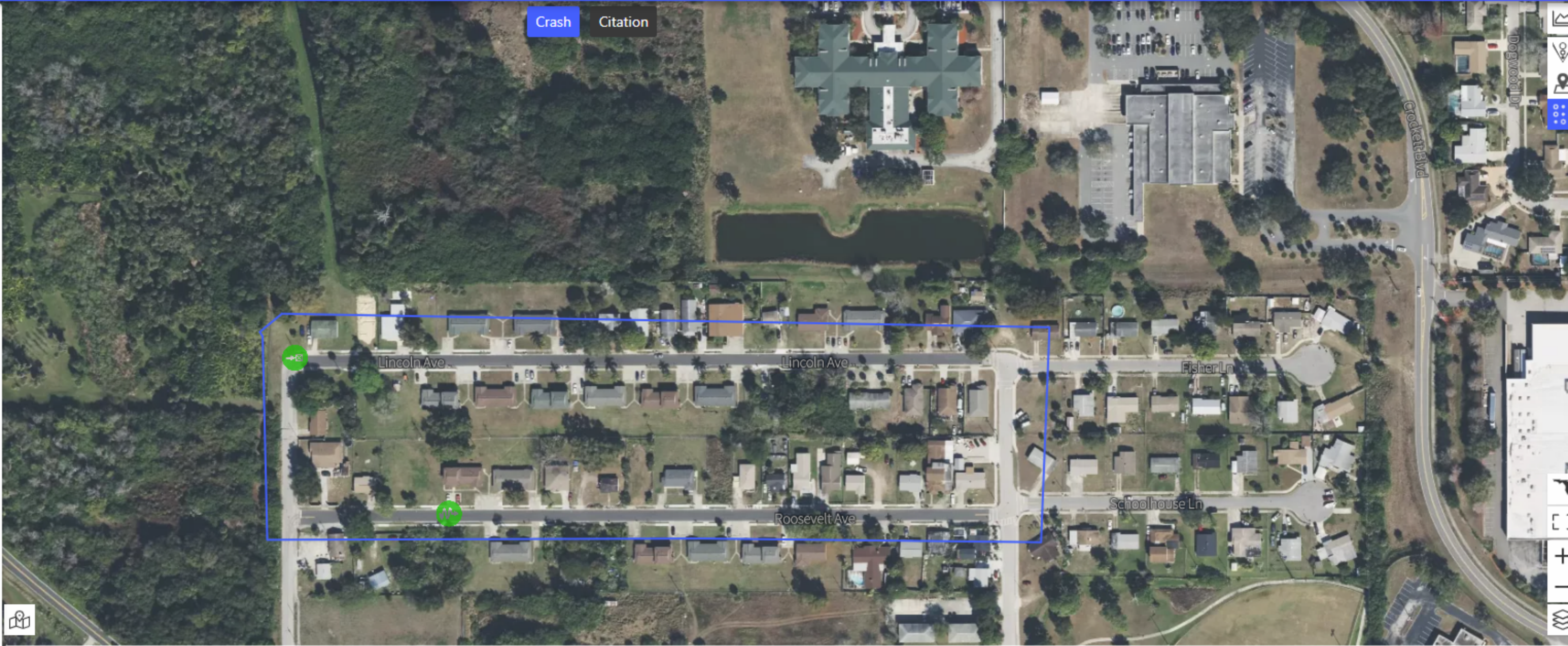
Search Crashes

TARGET ZERO

FARS

Crashes in JJ

From 1/1/2020 - 12/31/2024



Injury Summary

Common Attributes

FDOT Attributes

	Total	Fatal Crashes	Serious Injury Crashes	Injury Crashes	Property Damage Only Crashes
Crashes	2	0	0	0	2
Fatalities (within 30 Days)	0	0	0	0	0
Incapacitating Injuries	0	0	0	0	0
Non-Incapacitating Injuries	0	0	0	0	0

FLORIDA TRAFFIC CRASH REPORT

LONG FORM ☒ SHORT FORM ☐ UPDATE ☐

(Electronic Version)

HIGHWAY SAFETY & MOTOR VEHICLES,
TRAFFIC CRASH RECORDS
NEIL KIRKMAN BUILDING, TALLAHASSEE, FL 32399-0537

Date of Crash 31/Aug/2021 05:47 PM	Time of Crash 31/Aug/2021 05:47 PM	Date of Report 31/Aug/2021 08:11 PM	Invest. Agency Report Number FHPD21OFF069588	HSMV Crash Report Number 88548174
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CRASH IDENTIFIERS

County Code 19	City Code 45	County of Crash BREVARD	Place or City of Crash MERRITT ISLAND	Within City Limits No	Time Reported 31/Aug/2021 05:52 PM	Time Dispatched 31/Aug/2021 07:12 PM
Time on Scene 31/Aug/2021 07:51 PM	Time Cleared Scene 31/Aug/2021 08:21 PM	Completed Yes	Reason (if Investigation NOT Completed)			Notified By Law Enforcement

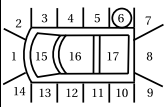
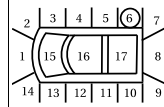
ROADWAY INFORMATION

Crash Occured On Street, Road, Highway 543 ROOSEVELT AVE			① At Street Address#	② At Latitude 28.3858068013805	and Longitude -80.711810404870107
At Feet 1000	Or Miles	Direction East	③ From Intersection With Street, Road, Highway HILL AVE		④ Or From Milepost #
Road System Identifier 5 Local		Type Of Shoulder 3 Curb		Type Of Intersection 77 Other, Explain in Narrative	

CRASH INFORMATION (Check if Pictures Taken) ☐

Light Condition 1 Daylight	Weather Condition 1 Clear	Roadway Surface Condition 1 Dry	School Bus Related 1 No	Manner Of Collision 3 Angle
First Harmful Event Type	First Harmful Event 14	First Harmful Event Location 1 On Roadway	Within Interchange No	First Harmful Event Relation to Junction 4 Driveway/Alley Access Related
Contributing Circumstances: Road 1 None		Contributing Circumstances: Road		Contributing Circumstances: Road
Contributing Circumstances: Environment 1 None		Contributing Circumstances: Environment		Contributing Circumstances: Environment
Work Zone Related 1 No	Crash In Work Zone	Type Of Work Zone	Workers In Work Zone	Law Enforcement In Work Zone

VEHICLE (Check if Commercial) ☐

Vehicle 2	Motor Vehicle Type 1 Vehicle in Transport	Hit and Run 1 No	Veh License Number VA1YL	State FL	Reg. Expires 18/Dec/2021	Permanent Reg. No	VIN 3N1AB7AP4KY328228			
Year 2019	Make NISS	Model ALTIMA	Style 4D	Color GRY	Extent of Damage Functional	Est. Damage 3000	Towed Due To Damage Yes	Vehicle Removed By MOA	Rotation	
Insurance Company					Insurance Policy Number					
Name of Vehicle Owner (Check Box If Business) <input type="checkbox"/> BARBARA ANN THOMAS				Current Address (Number and Street) 525 EASY ST			City and State MERRITT ISLAND FL	Zip Code 32953-4359		
Trailer One:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles	
Trailer Two:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles	
Vehicle Traveling:	Direction South	On Street, Road, Highway 543 ROOSEVELT AVE					At Est. Speed	Posted Speed 25	Total Lanes 2	
CMV Configuration			Cargo Body Type			Area of Initial Impact		Most Damaged Area		
Comm GVWR/GCWR			Trailer Type (trailer one)		Trailer Type (trailer two)					
Haz. Mat. Release	Haz Mat. Placard	Number		Class						
Motor Carrier Name				US DOT Number						
Motor Carrier Address					City and State		Zip Code	Phone Number		
Comm/Non-Commercial	Vehicle Body Type 1 Passenger Car	Vehicle Defects (one) 1 None		Vehicle Defects (two)		Emergency Vehicle Use 1 No	Special Function of MV 1 No Special Function			
Vehicle Maneuver Action 8 Parked	Trafficway 1 Two-Way, Not Divided	Roadway Grade 1 Level		Roadway Alignment 1 Straight		Most Harmful Event 2 Collision with Non-Fixed Object		Most Harmful Event Detail 14 Motor Vehicle in Transport		
Traffic Control Device For This Vehicle 1 No Controls		First (1) Sequence of Events 2 Collision with Non-Fixed Object		Second (2) Sequence of Events		Third (3) Sequence of Events		Fourth (4) Sequence of Events		
		14 Motor Vehicle in Transport								

VEHICLE (Check if Commercial) ☐

Vehicle 1	Motor Vehicle Type 1 Vehicle in Transport	Hit and Run 2 Yes	Veh License Number	State	Reg. Expires	Permanent Reg. No	VIN		
Year	Make	Model	Style	Color	Extent of Damage Unknown	Est. Damage	Towed Due To Damage No	Vehicle Removed By	Rotation
Insurance Company					Insurance Policy Number				

Date of Crash 31/Aug/2021 05:47 PM		Date of Report 31/Aug/2021 05:47 PM		Invest. Agency Report Number FHPD21OFF069588		HSMV Crash Report Number 88548174				
Name of Vehicle Owner (Check Box If Business) <input type="checkbox"/>			Current Address (Number and Street)			City and State		Zip Code		
Trailer One:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles	
Trailer Two:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles	
Vehicle Traveling:	Direction	On Street, Road, Highway ROOSEVELT AVE				At Est. Speed	Posted Speed 25	Total Lanes		
CMV Configuration			Cargo Body Type			Area of Initial Impact		Most Damaged Area		
Comm GVWR/GCWR			Trailer Type (trailer one)		Trailer Type (trailer two)		18. Undercarriage 19. Overturn 20. Windshield 21. Trailer		18. Undercarriage 19. Overturn 20. Windshield 21. Trailer	
Haz. Mat. Release		Haz Mat. Placard	Number		Class					
Motor Carrier Name					US DOT Number					
Motor Carrier Address				City and State		Zip Code		Phone Number		
Comm/Non-Commercial	Vehicle Body Type		Vehicle Defects (one)		Vehicle Defects (two)		Emergency Vehicle Use 1 No	Special Function of MV 1 No Special Function		
Vehicle Maneuver Action	Trafficway 1 Two-Way, Not Divided		Roadway Grade		Roadway Alignment		Most Harmful Event		Most Harmful Event Detail	
Traffic Control Device For This Vehicle 1 No Controls		First (1) Sequence of Events		Second (2) Sequence of Events		Third (3) Sequence of Events		Fourth (4) Sequence of Events		

NARRATIVE

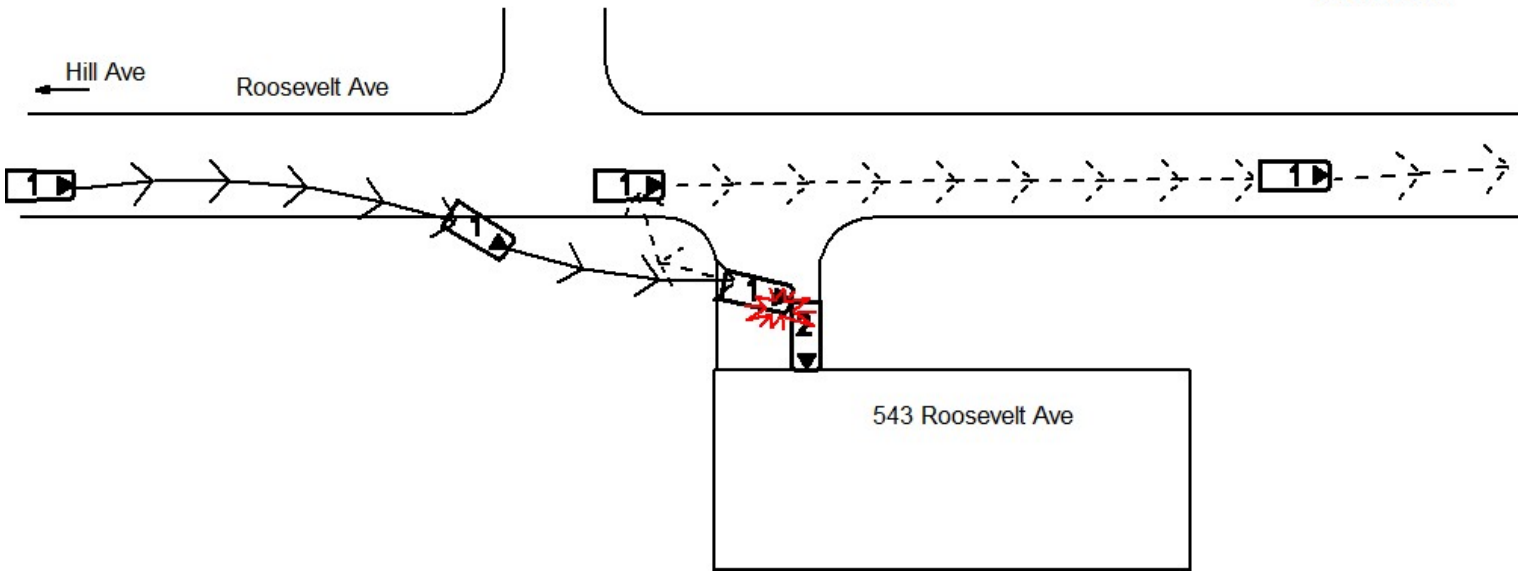
ID Number 4738	Rank TPR	Name J. DH. PROVENCHER	Troop / Post D	Officer Agency FLORIDA HIGHWAY PATROL	Phone Number 321-690-3900	Date Created Sep 10, 2021
Vehicle 1 (V01) was eastbound on Roosevelt Ave east of Hill Ave. Vehicle 2 (V02) was parked in the driveway of 543 Roosevelt Ave facing south. V01 ran off the roadway onto the right shoulder and struck the rear passenger side of V02. Prior to my arrival, V01 had left the scene and V02 had not moved from the area of collision. **Note: This report will be updated when more information is made available.						

REPORTING OFFICER

ID/Badge # 4738	Rank and Name TPR J. DH. PROVENCHER	Department FLORIDA HIGHWAY PATROL	Type of Department FHP
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Not to Scale



FLORIDA TRAFFIC CRASH REPORT

LONG FORM ☒ SHORT FORM ☐ UPDATE ☐

(Electronic Version)

HIGHWAY SAFETY & MOTOR VEHICLES,
TRAFFIC CRASH RECORDS
NEIL KIRKMAN BUILDING, TALLAHASSEE, FL 32399-0537

Date of Crash 12/Oct/2024 05:23 AM	Time of Crash 12/Oct/2024 05:23 AM	Date of Report 12/Oct/2024 06:47 AM	Invest. Agency Report Number FHP24ON0514777	HSMV Crash Report Number 26372592
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CRASH IDENTIFIERS

County Code 19	City Code 45	County of Crash BREVARD	Place or City of Crash MERRITT ISLAND	Within City Limits No	Time Reported 12/Oct/2024 05:43 AM	Time Dispatched 12/Oct/2024 06:28 AM
Time on Scene 12/Oct/2024 06:42 AM	Time Cleared Scene 12/Oct/2024 07:45 AM	Completed Yes	Reason (if Investigation NOT Completed)			Notified By Law Enforcement

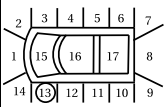
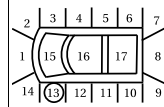
ROADWAY INFORMATION

Crash Occured On Street, Road, Highway 590 LINCOLN AVENUE				❶ At Street Address#		❷ At Latitude 28.386590000000002		and Longitude -80.712689999999995	
At Feet 10	Or Miles	Direction North	❸ From Intersection With Street, Road, Highway HILL AVENUE					❹ Or From Milepost #	
Road System Identifier 4 County			Type Of Shoulder 3 Curb			Type Of Intersection 1 Not at Intersection			

CRASH INFORMATION (Check if Pictures Taken) ☐

light Condition 4 Dark-Lighted	Weather Condition 1 Clear	Roadway Surface Condition 1 Dry	School Bus Related 1 No	Manner Of Collision 77 Other, Explain in Narrative	
First Harmful Event Type	First Harmful Event 24	First Harmful Event Location 2 Off Roadway	Within Interchange No	First Harmful Event Relation to Junction 2 Intersection	
Contributing Circumstances: Road 1 None		Contributing Circumstances: Road		Contributing Circumstances: Road	
Contributing Circumstances: Environment 1 None		Contributing Circumstances: Environment		Contributing Circumstances: Environment	
Work Zone Related 1 No	Crash In Work Zone	Type Of Work Zone	Workers In Work Zone	Law Enforcement In Work Zone	

VEHICLE (Check if Commercial) ☐

Vehicle 1	Motor Vehicle Type 1 Vehicle in Transport	Hit and Run 2 Yes	Veh License Number LLIF72	State FL	Reg. Expires 30/Jun/2025	Permanent Reg. No	VIN 1N4BL4DV4RN313586							
Year 2024	Make NISS	Model ALTIMA	Style 4D	Color GRY	Extent of Damage Disabling	Est. Damage 15000	Towed Due To Damage Yes	Vehicle Removed By DOUG'S TOWING	Rotation Rotation					
Insurance Company					Insurance Policy Number									
Name of Vehicle Owner (Check Box If Business) <input checked="" type="checkbox"/>			Current Address (Number and Street) 14002 E 21ST ST STE 1500			City and State TULSA OK		Zip Code 74134-1424						
Trailer One:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles					
Trailer Two:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles					
Vehicle Traveling:	Direction North	On Street, Road, Highway HALL AVENUE				At Est. Speed 45	Posted Speed 25	Total Lanes 2						
CMV Configuration			Cargo Body Type			Area of Initial Impact		Most Damaged Area						
Comm GVWR/GCWR			Trailer Type (trailer one)		Trailer Type (trailer two)									
Haz. Mat. Release		Haz Mat. Placard	Number		Class									
Motor Carrier Name			US DOT Number											
Motor Carrier Address				City and State			Zip Code	Phone Number						
Comm/Non-Commercial	Vehicle Body Type 1 Passenger Car	Vehicle Defects (one) 1 None		Vehicle Defects (two)		Emergency Vehicle Use 1 No	Special Function of MV 1 No Special Function							
Vehicle Maneuver Action 1 Straight Ahead	Trafficway 1 Two-Way, Not Divided		Roadway Grade 1 Level	Roadway Alignment 1 Straight	Most Harmful Event 3 Collision with Fixed Object	Most Harmful Event Detail 24 Curb								
Traffic Control Device For This Vehicle 1 No Controls		First (1) Sequence of Events 43 Ran Off Roadway, Left		Second (2) Sequence of Events 24 Curb	Third (3) Sequence of Events 38 Mailbox	Fourth (4) Sequence of Events								

NON VEHICLE PROPERTY DAMAGE

Vehicle#	Person#	Property Damage - Other Than Vehicle MAILBOX	Est. Amount 100	Business No	Owner's Name ILENE RANDOLPH	Address 590 LINCOLN AVE	City & State MERRITT ISLAND FL	Zip Code 32953
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NARRATIVE

Date of Crash 12/Oct/2024 05:23 AM	Date of Report 12/Oct/2024 05:23 AM	Invest. Agency Report Number FHP24ON0514777	HSMV Crash Report Number 26372592
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ID Number	Rank	Name	Troop / Post	Officer Agency	Phone Number	Date Created
3496	TPR	R. M. WOLFF	D	FLORIDA HIGHWAY PATROL	321-690-3900	Oct 12, 2024

Vehicle One (V01) was traveling north on Hill Avenue approaching a 90 degree right turn onto Lincoln Avenue. Driver One (D01) did not appear to slow V01 down when approaching the 90 degree turn. V01's left side tires struck the curb. V01 went over the curb, and on the side walk. V01's front end ran over the mailbox at 590 Lincoln Avenue where it came to final rest.

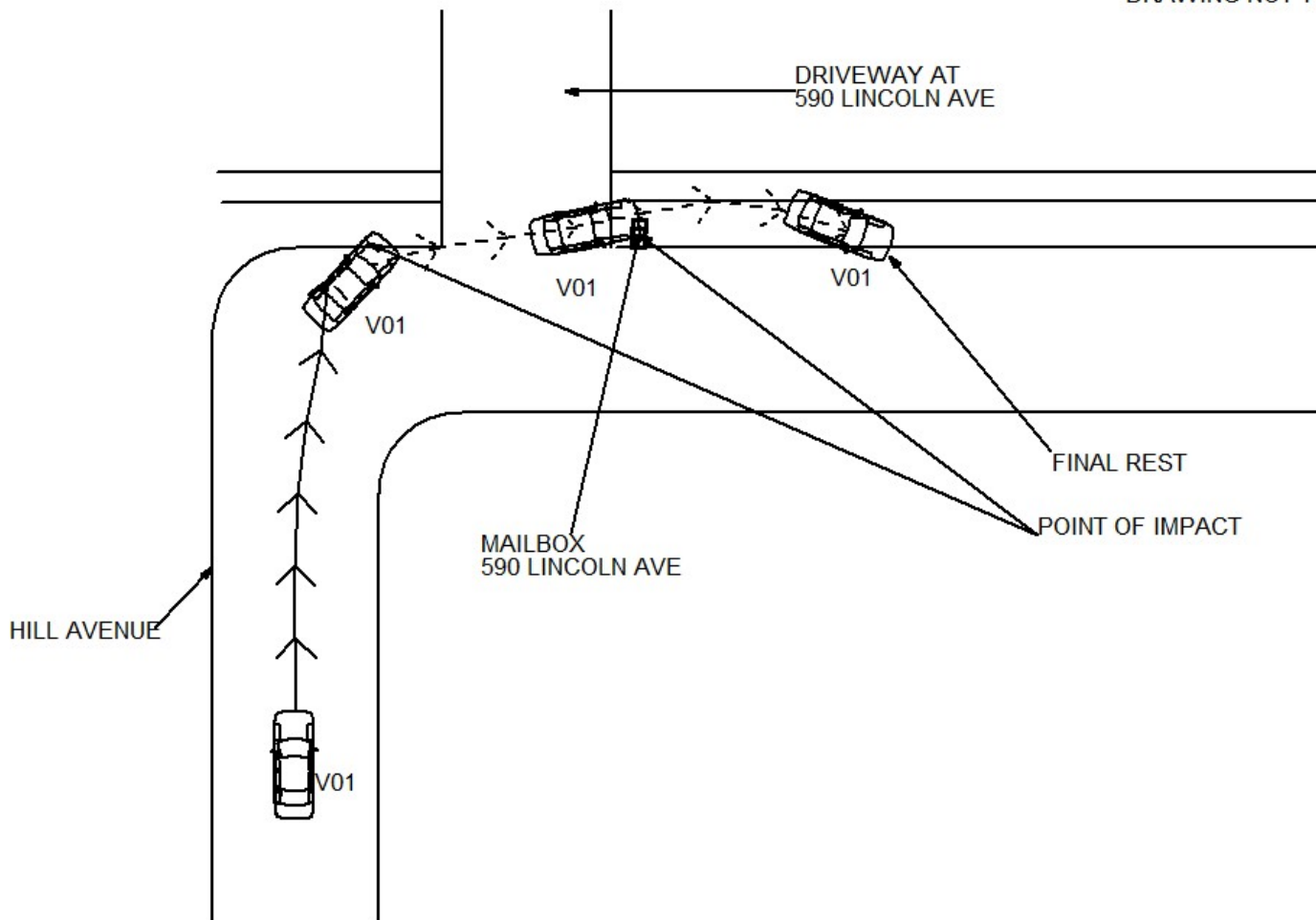
The driver and a passenger were last seen running from the scene.

REPORTING OFFICER

ID/Badge # 3496	Rank and Name TPR R. M. WOLFF	Department FHPD	Type of Department FHP
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DRAWING NOT TO SCALE



ATTACHMENT M-3

Land Use: 215

Single-Family Attached Housing

Description

Single-family attached housing includes any single-family housing unit that shares a wall with an adjoining dwelling unit, whether the walls are for living space, a vehicle garage, or storage space.

Additional Data

The database for this land use includes duplexes (defined as a single structure with two distinct dwelling units, typically joined side-by-side and each with at least one outside entrance) and townhouses/rowhouses (defined as a single structure with three or more distinct dwelling units, joined side-by-side in a row and each with an outside entrance).

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip generation resource page on the ITE website (<https://www.ite.org/technical-resources/topics/trip-and-parking-generation/>).

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in British Columbia (CAN), California, Georgia, Illinois, Maryland, Massachusetts, Minnesota, New Jersey, Ontario (CAN), Oregon, Pennsylvania, South Dakota, Utah, Virginia, and Wisconsin.

Source Numbers

168, 204, 211, 237, 305, 306, 319, 321, 357, 390, 418, 525, 571, 583, 638, 735, 868, 869, 870, 896, 912, 959, 1009, 1046, 1056, 1058, 1077

Single-Family Attached Housing (215)

Vehicle Trip Ends vs: Dwelling Units
On a: Weekday

Setting/Location: General Urban/Suburban

Number of Studies: 22

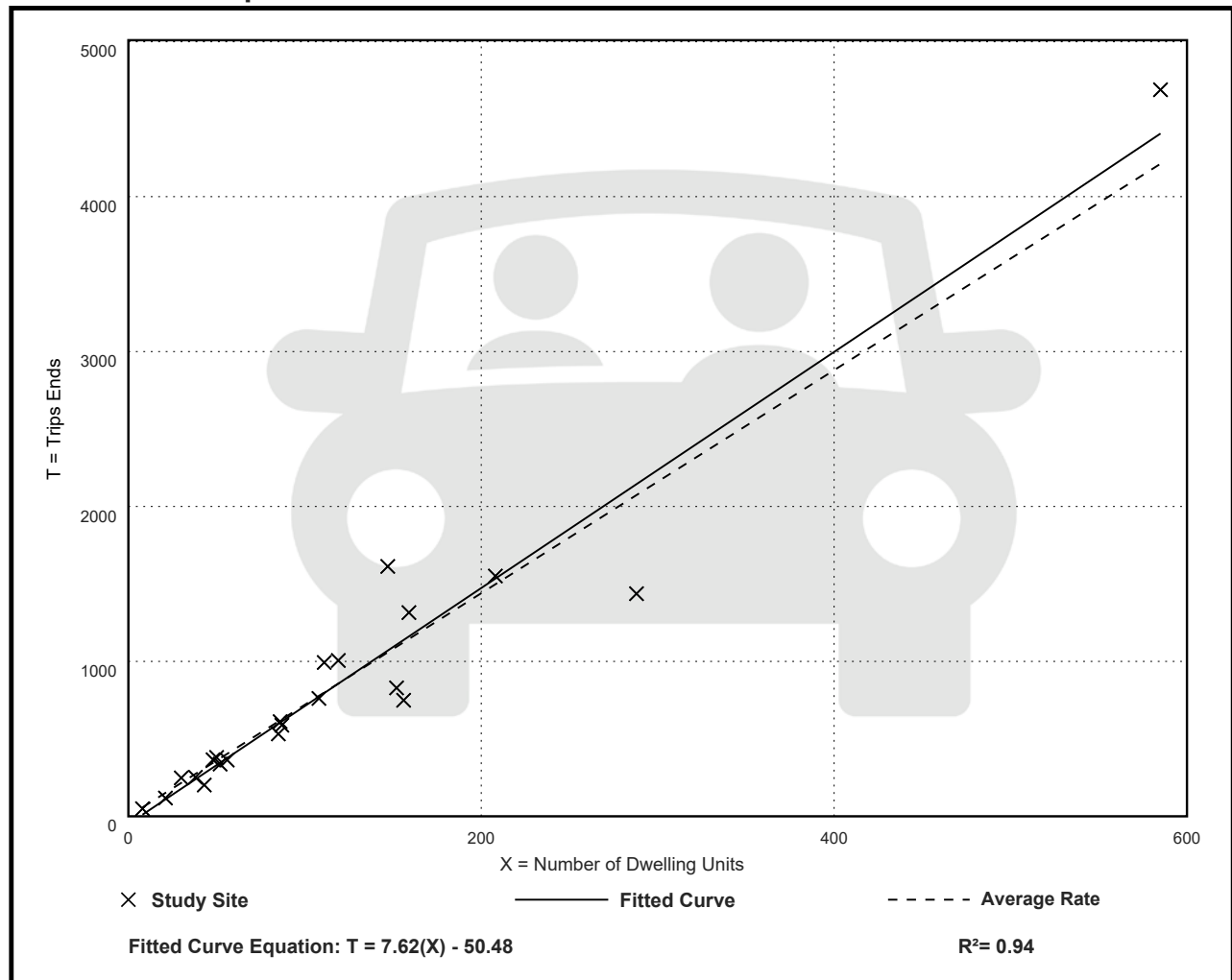
Avg. Num. of Dwelling Units: 120

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
7.20	4.70 - 10.97	1.61

Data Plot and Equation



Single-Family Attached Housing (215)

Vehicle Trip Ends vs: Dwelling Units

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: 46

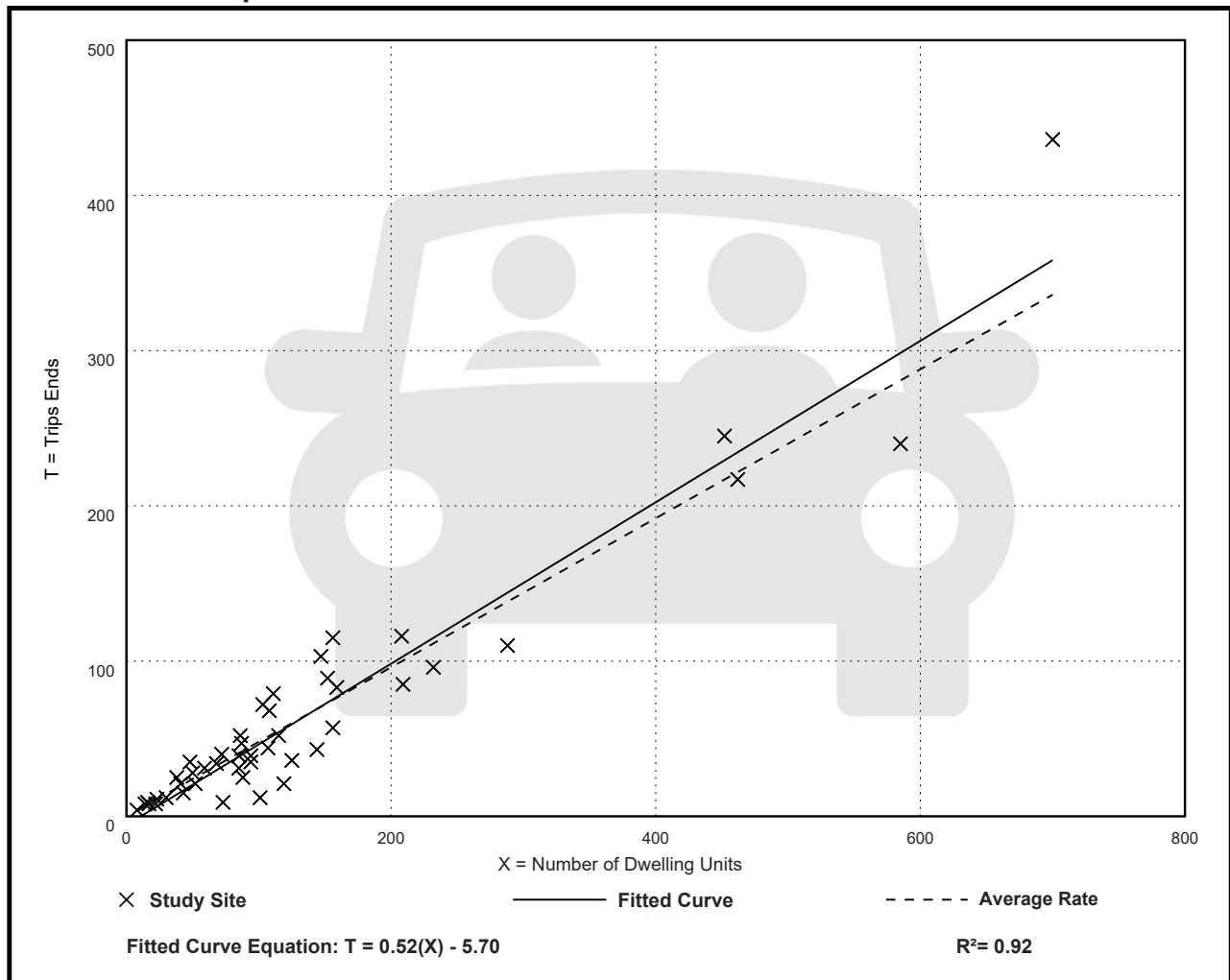
Avg. Num. of Dwelling Units: 135

Directional Distribution: 31% entering, 69% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.48	0.12 - 0.74	0.14

Data Plot and Equation



Single-Family Attached Housing (215)

Vehicle Trip Ends vs: Dwelling Units

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: 51

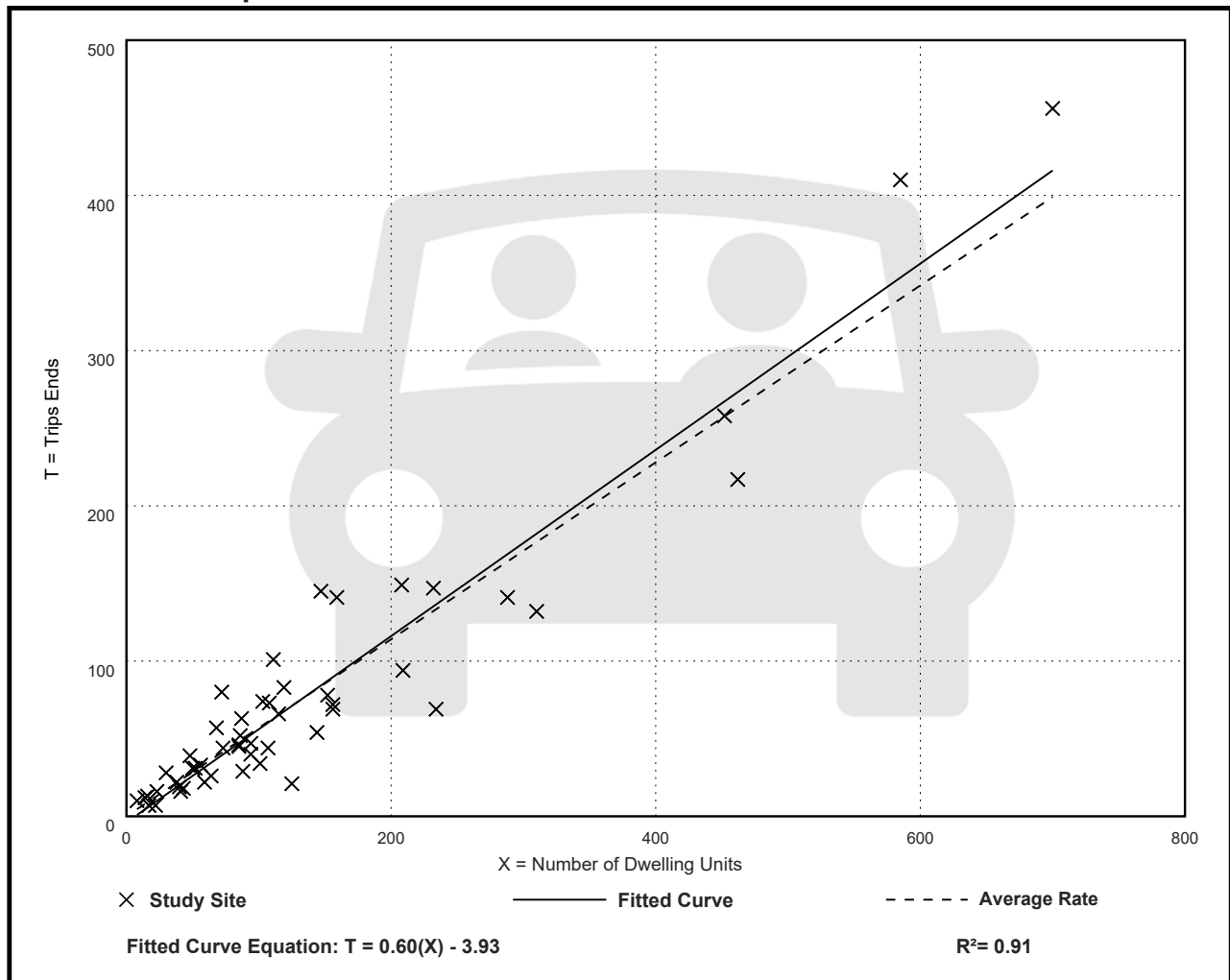
Avg. Num. of Dwelling Units: 136

Directional Distribution: 57% entering, 43% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.57	0.17 - 1.25	0.18

Data Plot and Equation



Single-Family Attached Housing (215)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

AM Peak Hour of Generator

Setting/Location: General Urban/Suburban

Number of Studies: 31

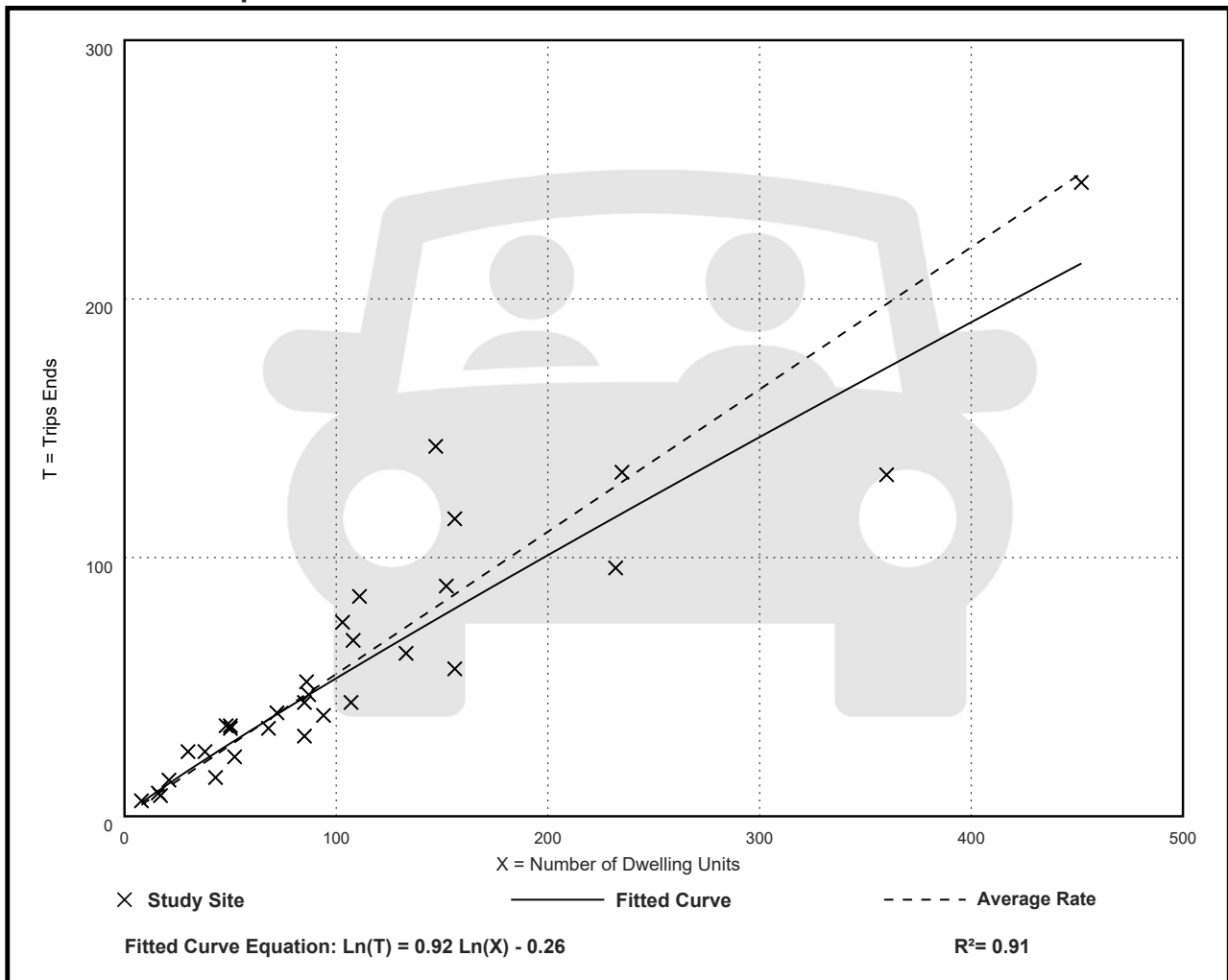
Avg. Num. of Dwelling Units: 110

Directional Distribution: 25% entering, 75% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.55	0.35 - 0.97	0.16

Data Plot and Equation



Single-Family Attached Housing (215)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

PM Peak Hour of Generator

Setting/Location: General Urban/Suburban

Number of Studies: 34

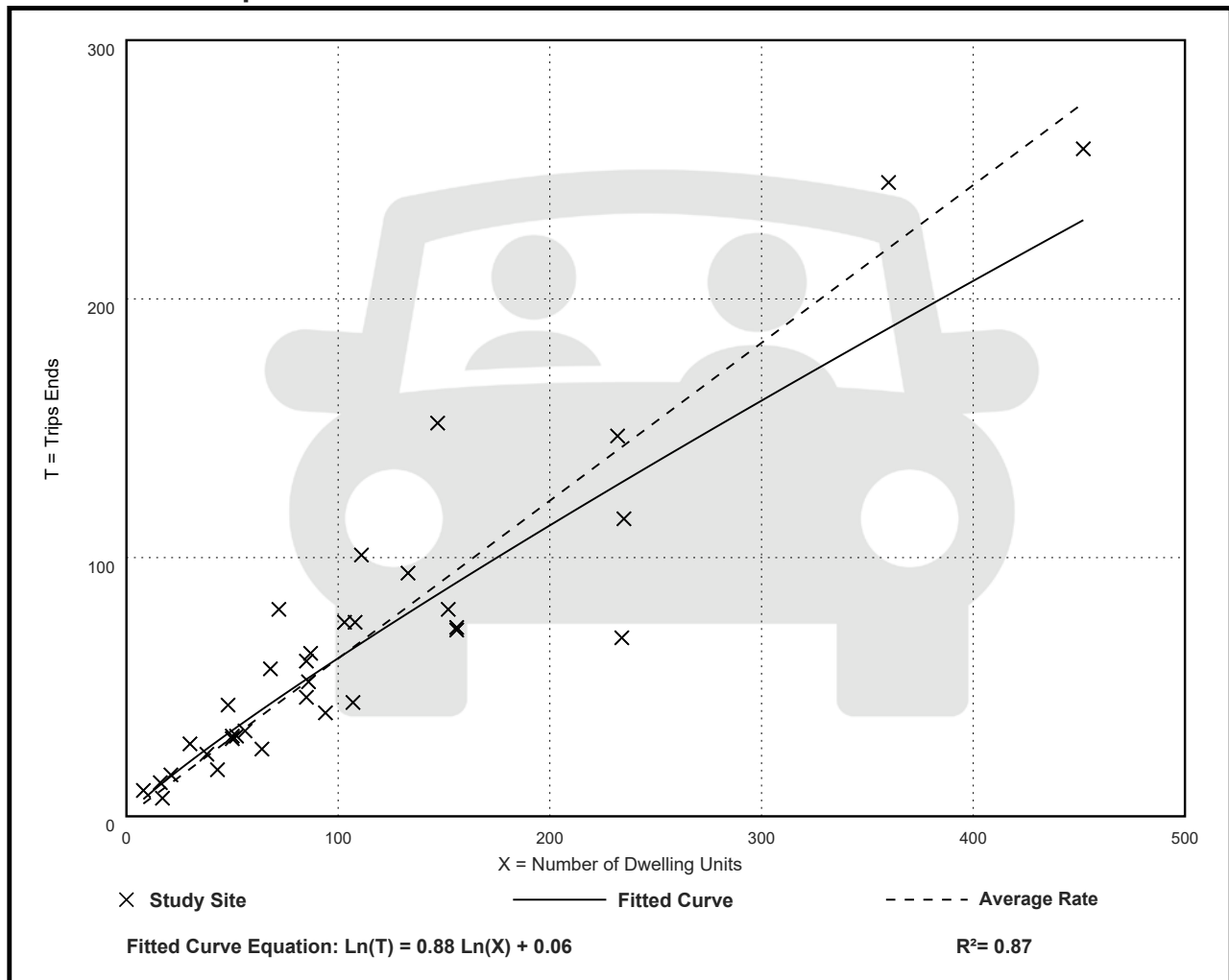
Avg. Num. of Dwelling Units: 110

Directional Distribution: 62% entering, 38% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.61	0.29 - 1.25	0.18

Data Plot and Equation



Single-Family Attached Housing (215)

Vehicle Trip Ends vs: Dwelling Units
On a: Saturday

Setting/Location: General Urban/Suburban

Number of Studies: 5

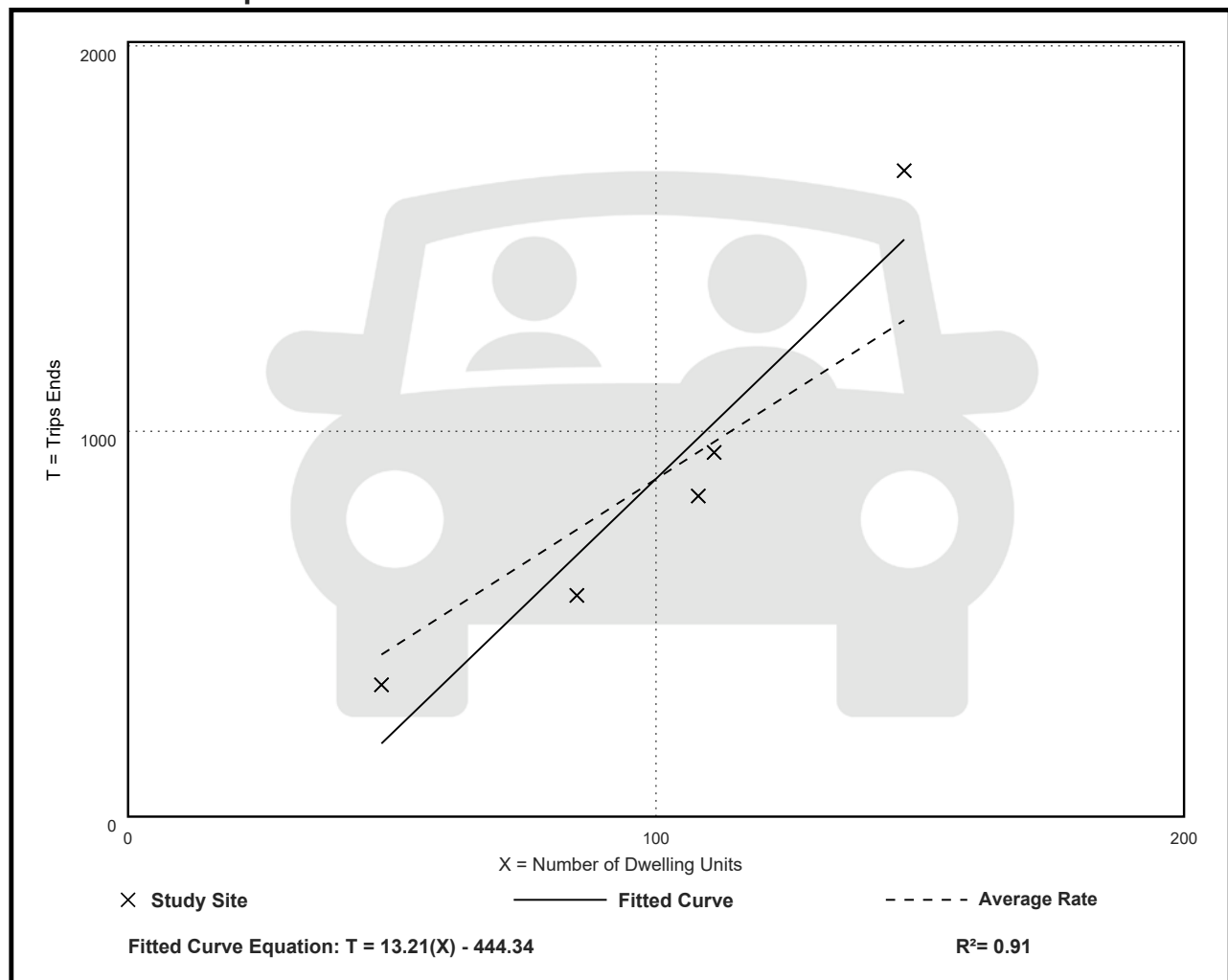
Avg. Num. of Dwelling Units: 100

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
8.76	6.75 - 11.40	2.02

Data Plot and Equation



Single-Family Attached Housing (215)

Vehicle Trip Ends vs: Dwelling Units

On a: Saturday, Peak Hour of Generator

Setting/Location: General Urban/Suburban

Number of Studies: 7

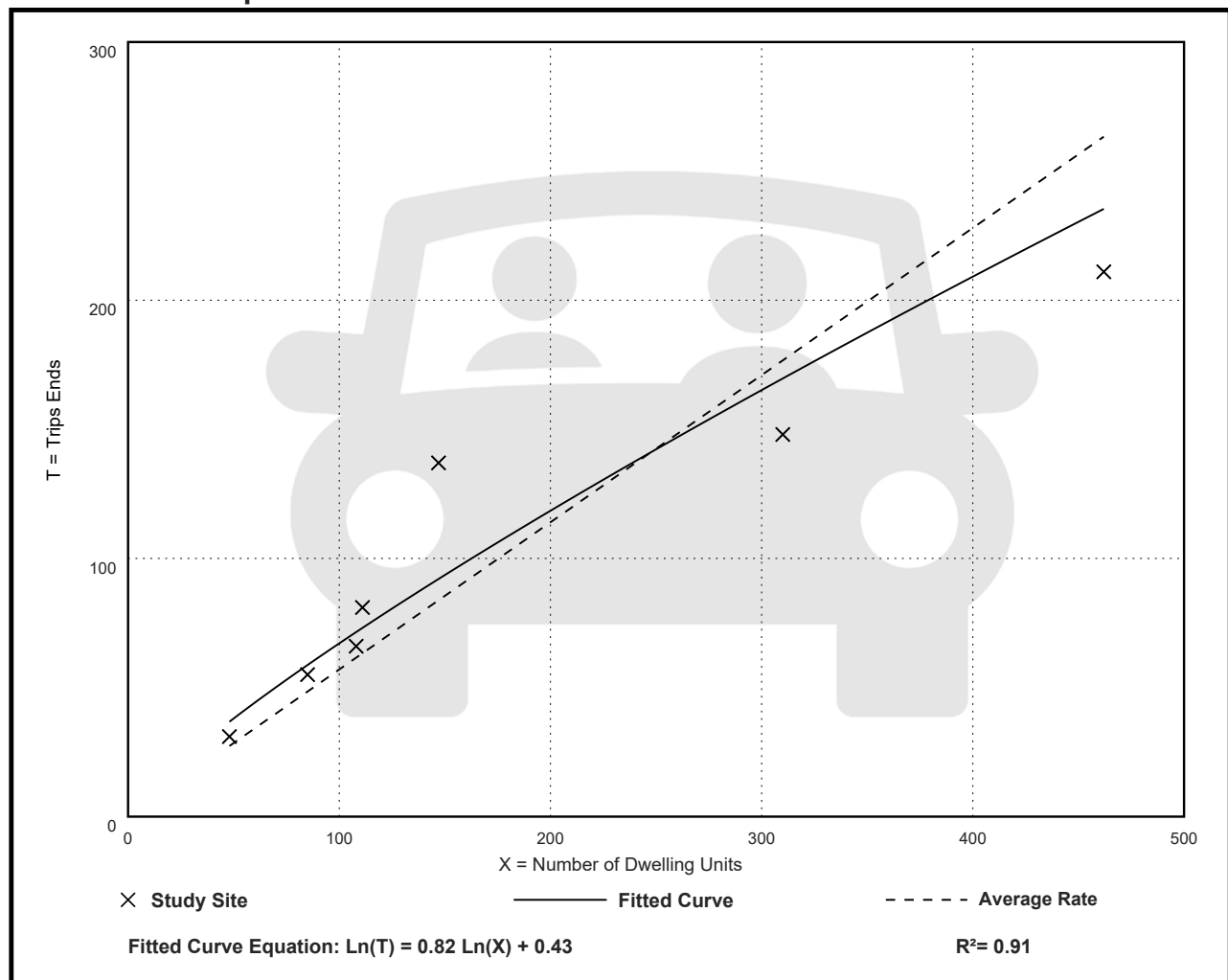
Avg. Num. of Dwelling Units: 182

Directional Distribution: 48% entering, 52% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.57	0.46 - 0.93	0.17

Data Plot and Equation



Single-Family Attached Housing (215)

Vehicle Trip Ends vs: Dwelling Units
On a: Sunday

Setting/Location: General Urban/Suburban

Number of Studies: 5

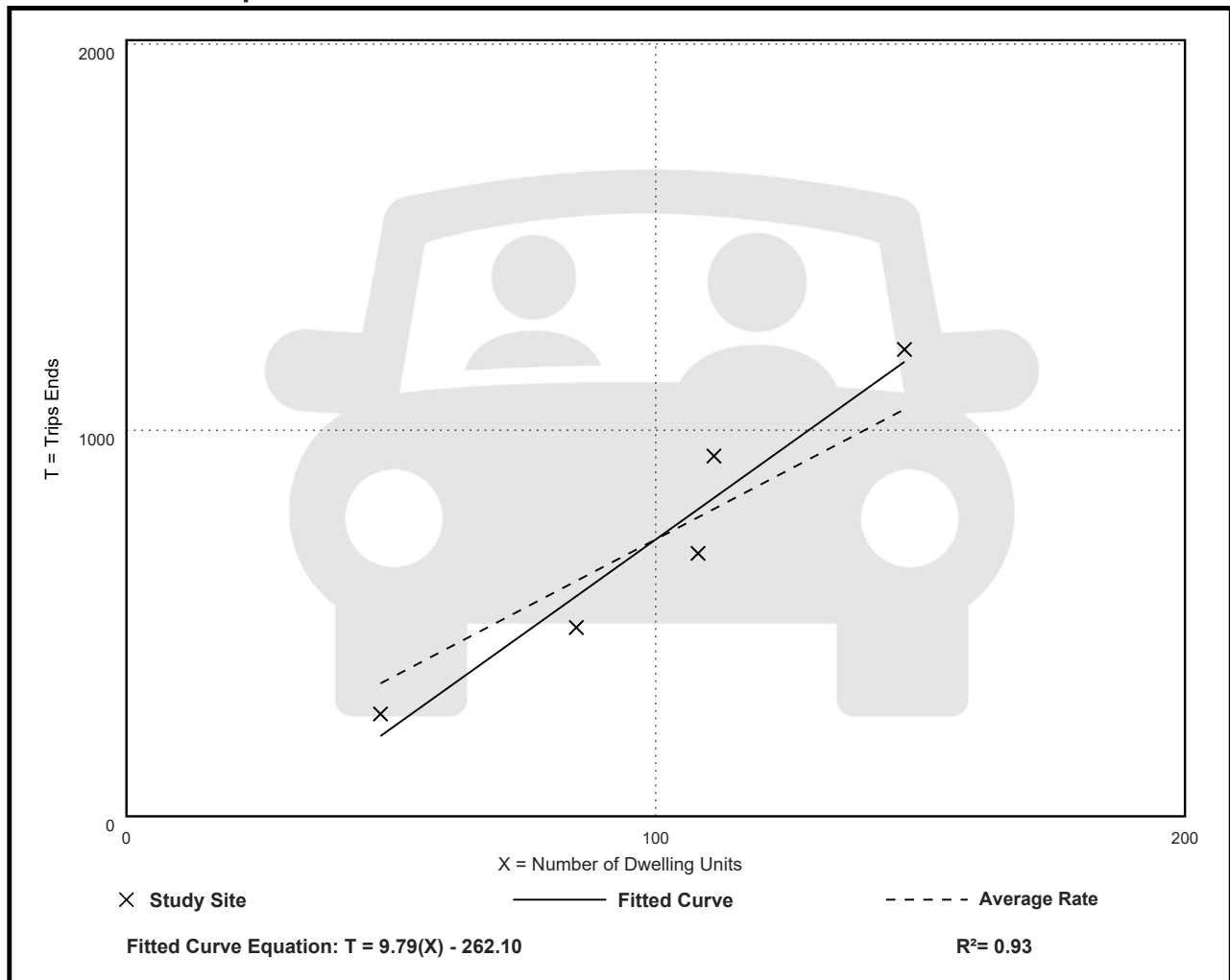
Avg. Num. of Dwelling Units: 100

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
7.17	5.52 - 8.41	1.34

Data Plot and Equation



Single-Family Attached Housing (215)

Vehicle Trip Ends vs: Dwelling Units

On a: Sunday, Peak Hour of Generator

Setting/Location: General Urban/Suburban

Number of Studies: 5

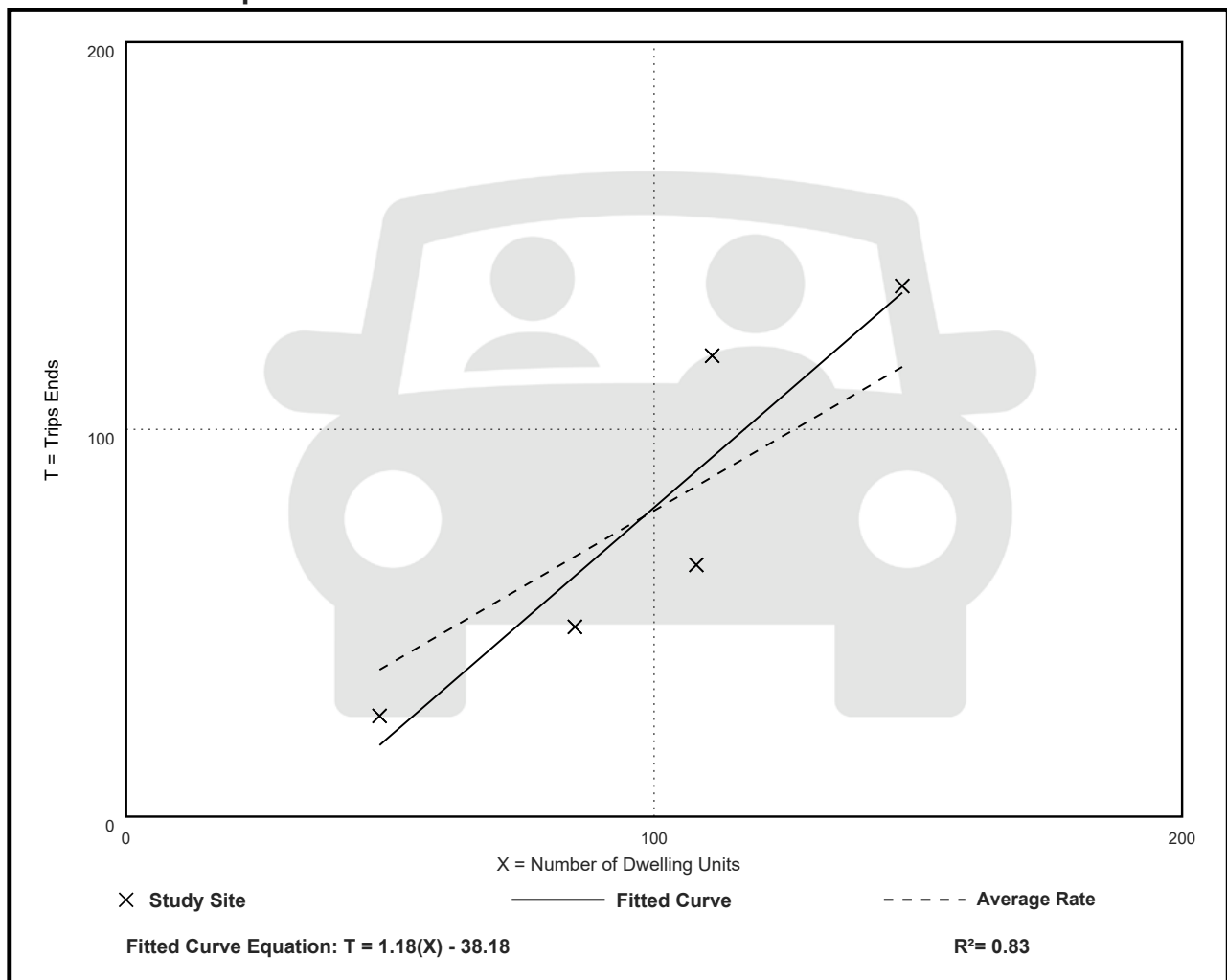
Avg. Num. of Dwelling Units: 100

Directional Distribution: Not Available

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.79	0.54 - 1.07	0.24

Data Plot and Equation



Single-Family Attached Housing (215)

Vehicle Trip Ends vs: Residents

On a: Weekday

Setting/Location: General Urban/Suburban

Number of Studies: 1

Avg. Num. of Residents: 36

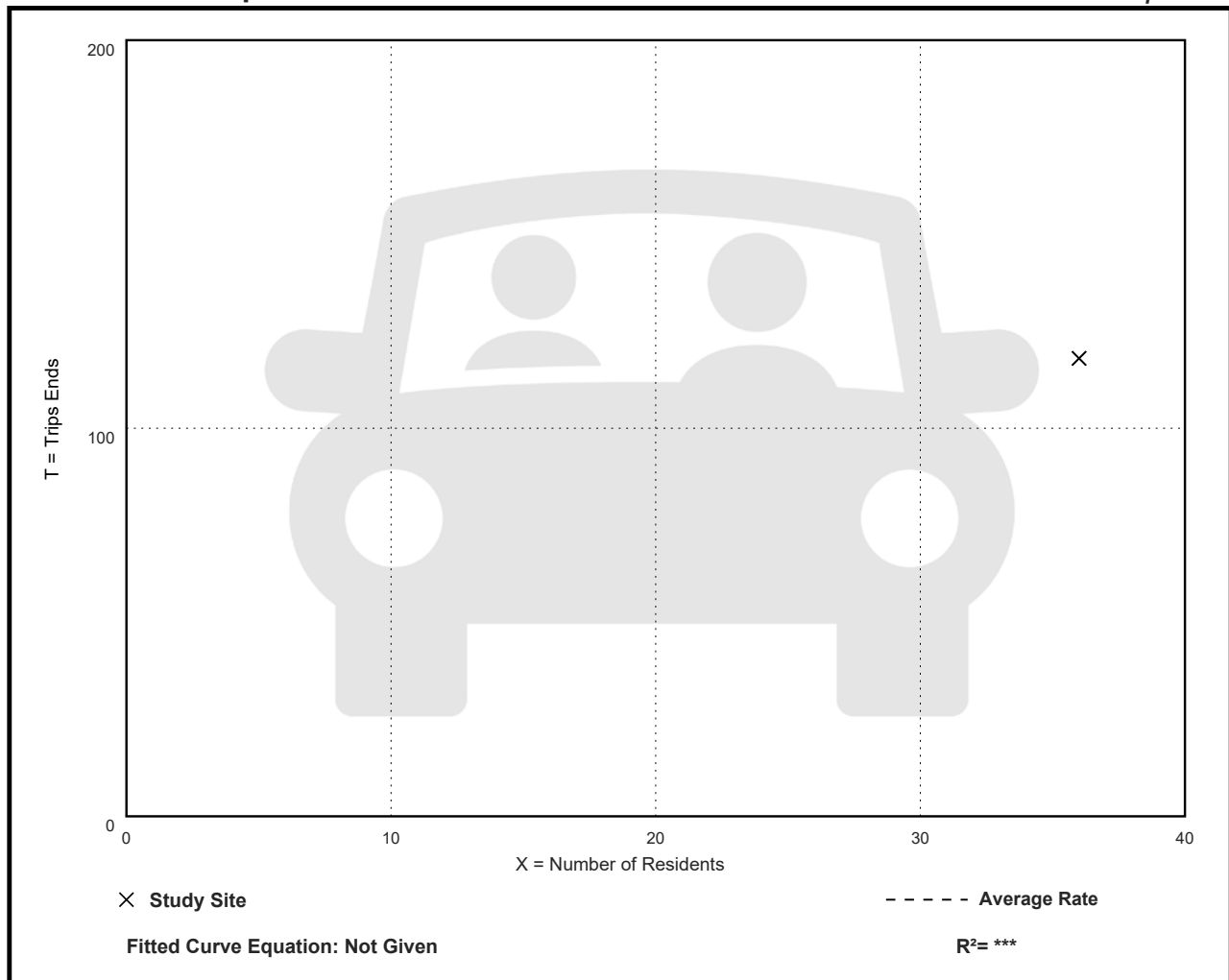
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Resident

Average Rate	Range of Rates	Standard Deviation
3.28	3.28 - 3.28	***

Data Plot and Equation

Caution – Small Sample Size



Single-Family Attached Housing (215)

Vehicle Trip Ends vs: Residents

On a: Weekday,

AM Peak Hour of Generator

Setting/Location: General Urban/Suburban

Number of Studies: 1

Avg. Num. of Residents: 36

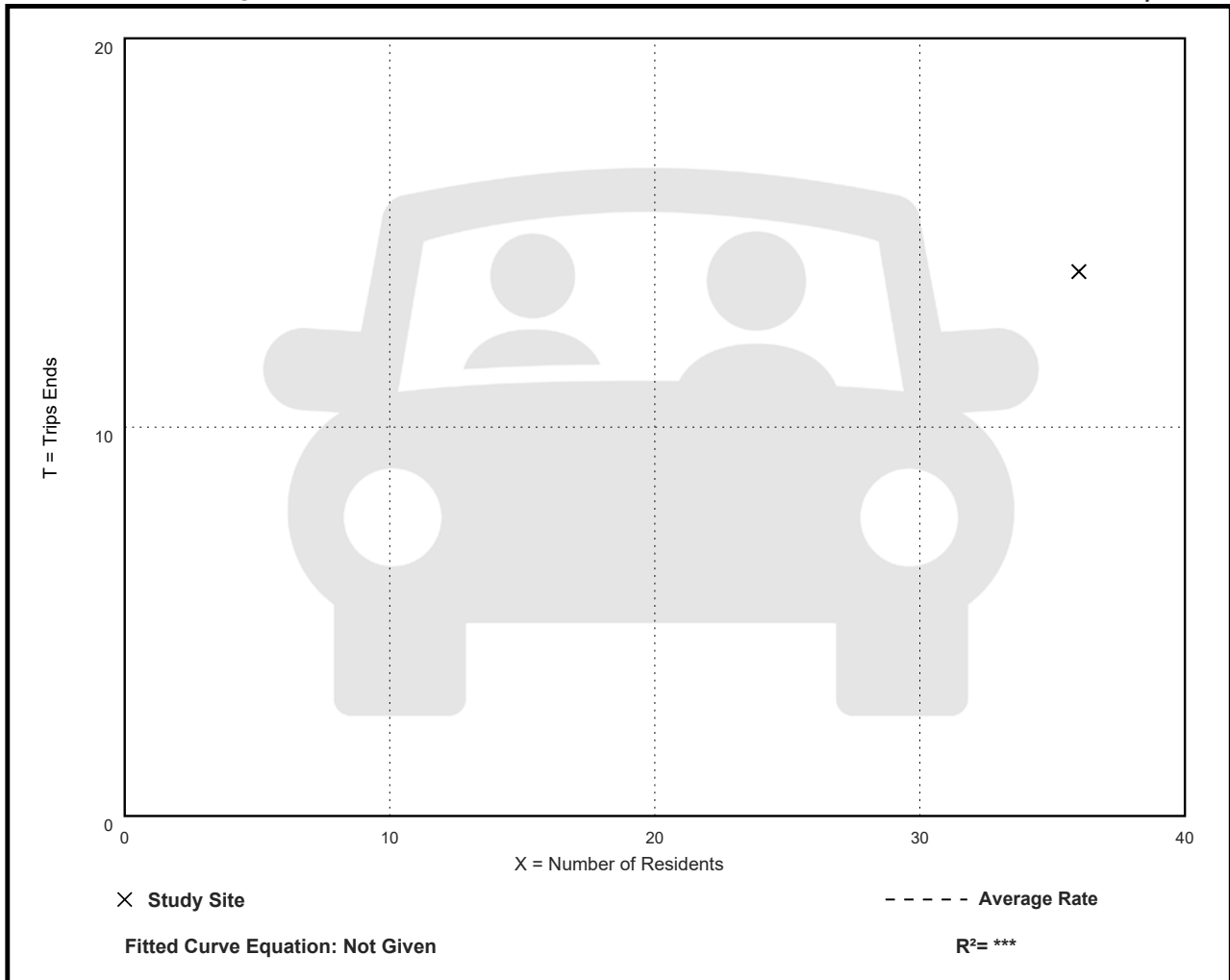
Directional Distribution: Not Available

Vehicle Trip Generation per Resident

Average Rate	Range of Rates	Standard Deviation
0.39	0.39 - 0.39	***

Data Plot and Equation

Caution – Small Sample Size



Single-Family Attached Housing (215)

Vehicle Trip Ends vs: Residents

On a: Weekday,

PM Peak Hour of Generator

Setting/Location: General Urban/Suburban

Number of Studies: 1

Avg. Num. of Residents: 36

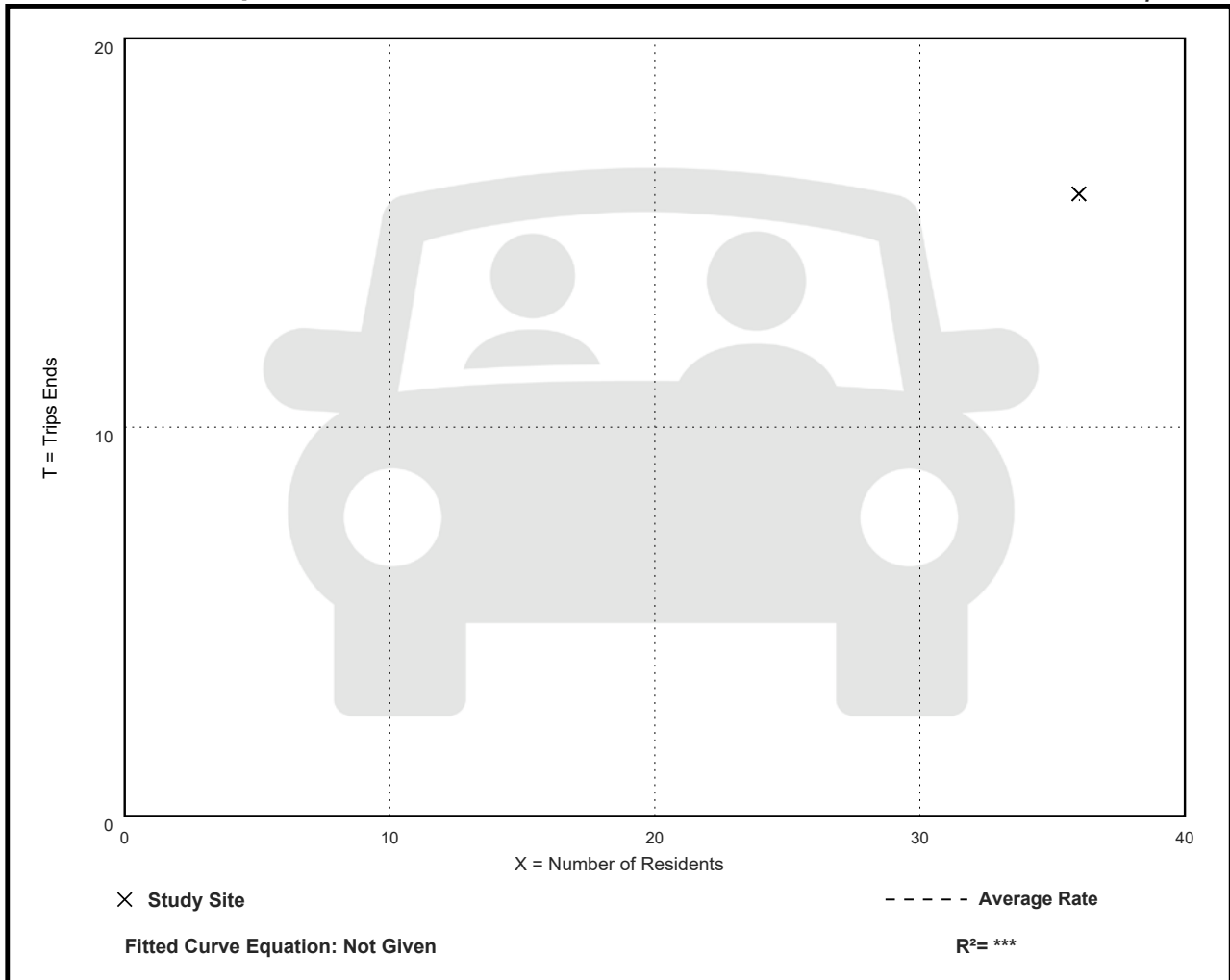
Directional Distribution: Not Available

Vehicle Trip Generation per Resident

Average Rate	Range of Rates	Standard Deviation
0.44	0.44 - 0.44	***

Data Plot and Equation

Caution – Small Sample Size



Single-Family Attached Housing (215)

Walk+Bike+Transit Trip Ends vs: Dwelling Units

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: 7

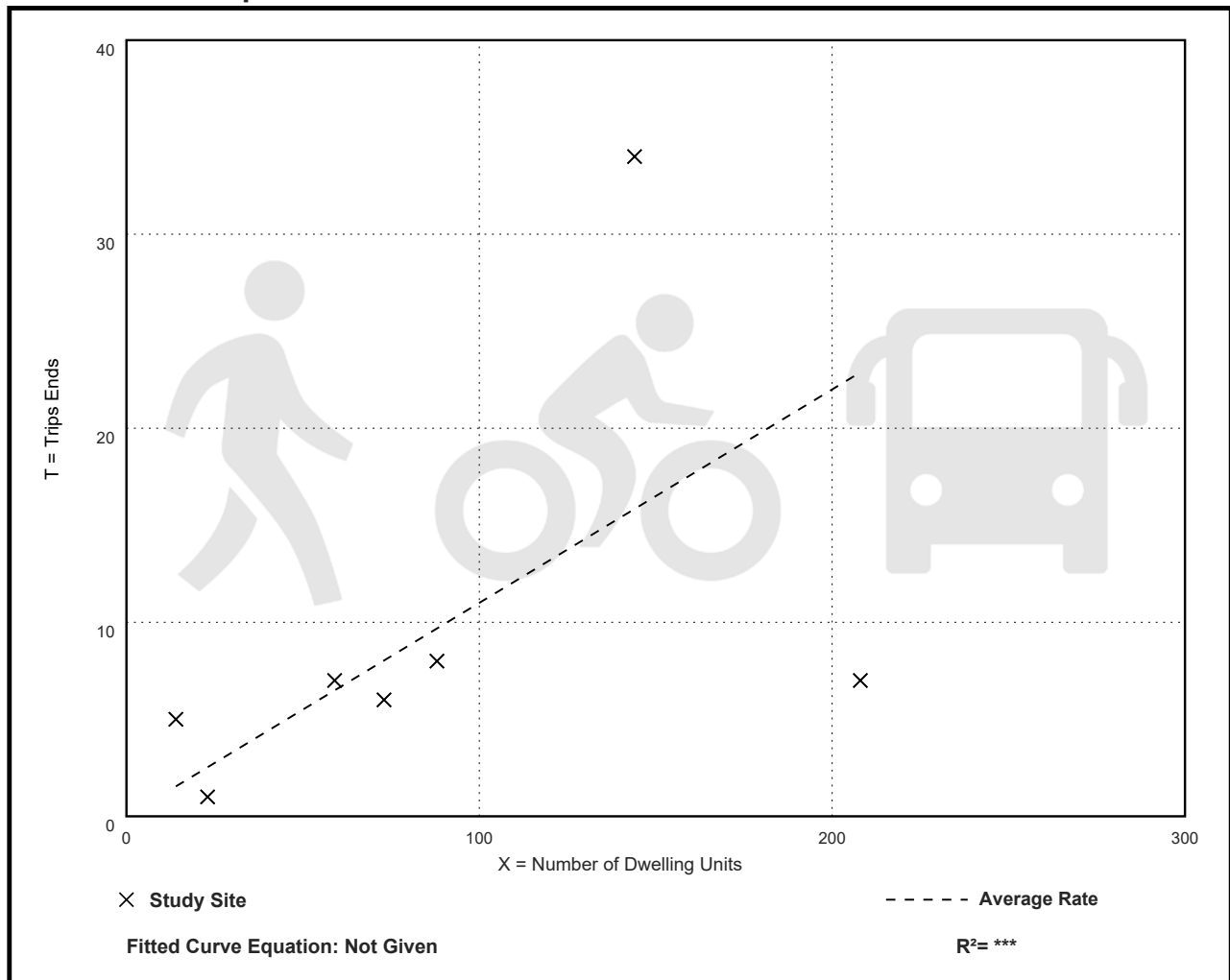
Avg. Num. of Dwelling Units: 87

Directional Distribution: 75% entering, 25% exiting

Walk+Bike+Transit Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.11	0.03 - 0.36	0.09

Data Plot and Equation



Single-Family Attached Housing (215)

Walk+Bike+Transit Trip Ends vs: Dwelling Units

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: 7

Avg. Num. of Dwelling Units: 87

Directional Distribution: 38% entering, 62% exiting

Walk+Bike+Transit Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.18	0.08 - 0.31	0.11

Data Plot and Equation

