

December 13, 2019

400 Harvey Road Manchester, NH 03103

Tel: (603) 627-5500 Fax: (603) 627-5501

Matt Monohan Town Planner Allenstown Circuit Rider Planner 16 School Street Allenstown, NH 03275 RE: A&M Project # 2638-01 Proposed Change of Use Tenant Space #2 43 Allenstown Road Allenstown, NH

Dear Mr. Monohan:

Allen & Major Associates, Inc. has prepared a memorandum to outline the anticipated traffic impacts generated by the proposed change of use for the Tenant Space #2 as indicated on the submitted site plans. The proposed development will convert an existing tenant space of approximately 2,115sf from a pharmacy to a landscape equipment rental center. Although, there is not a specific use code for landscape equipment rental, there are several similar uses which could be conducted as part of the business as outlined herein.

Trip Generation

Traffic generated by the development was determined based on the "Institute of Transportation Engineers (ITE) Trip Generation Manual, 10th Edition". The trip generation rate for the existing facility was based on Land Use Code 880, defined as "Pharmacy". The trip generation rate for the proposed facility was based on Land Use Code 841, defined as "Automobile Sales", Land Use Code 842, defined as "Recreational Vehicle Sales" and Land Use Code 843, defined as "Automobile Parts Sales".

To evaluate if the proposed re-development would have any appreciable effect on the existing surrounding roadway network, the existing trips for Land Use Code 880 were compared to a combination of the uses for Land Use Code 841, 842, & 843 which were equally to the existing tenant space. The estimated existing, proposed, and net vehicle trips are shown in the following table:

	Existing			Proposed			Net New Trips		
	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT
Daily	194	97	97	63	31	32	-131	-66	-65
AM Peak	7	4	4	7	3	4	0	-1	0
PM Peak	8	4	4	9	4	5	1	0	1

Conclusion

The proposed site will see a net decrease in vehicle trips from the existing condition of approximately 131 vehicle trips. Both the AM Peak and PM Peak remained relatively unchanged. As a result, the proposed development should have limited impacts on the surrounding roadway network.

Very truly yours,

ALLEN & MAJOR ASSOCIATES, INC.

ichael nfalynaush

Michael A. Malynowski, PE Senior Project Manager

Attachments



Calculated Trip Ends:

Average Rate: 194 (Total), 97 (Entry), 97 (Exit)

Fitted Curve: 194 (Total), 97 (Entry), 97 (Exit)

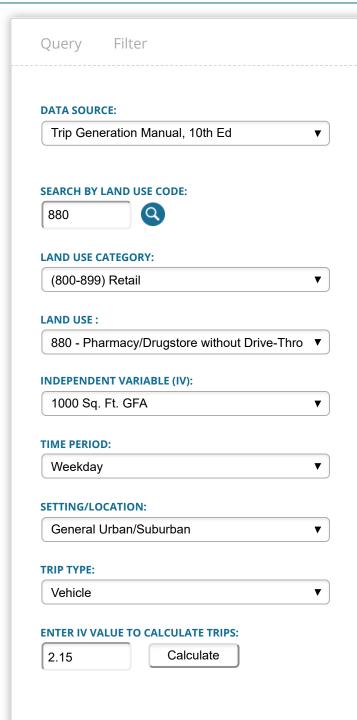


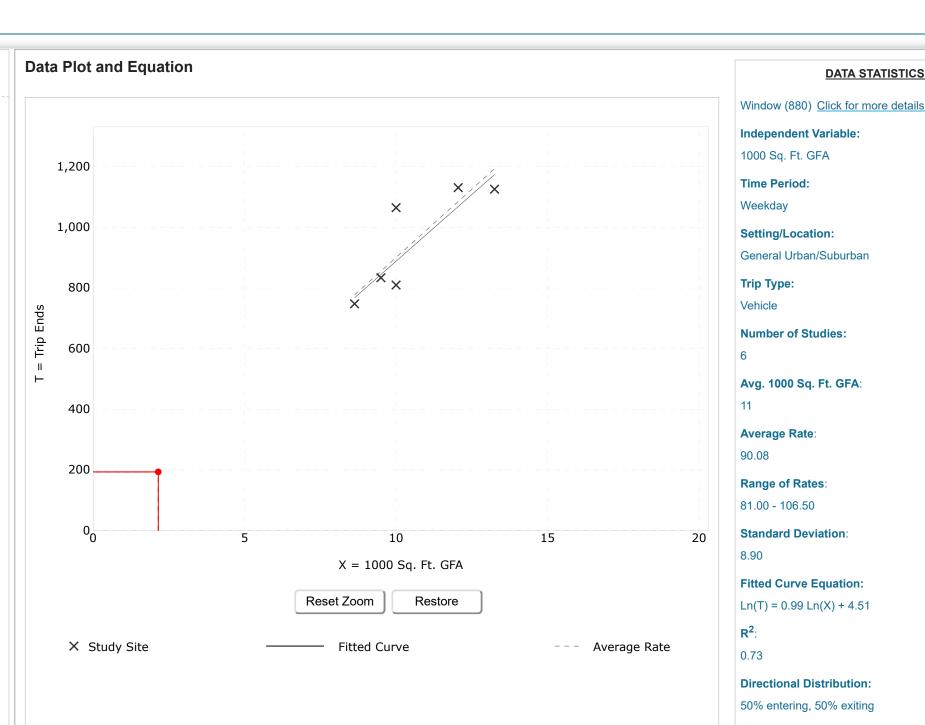
DATA STATISTICS



Graph Look Up







Use the mouse wheel to Zoom Out or Zoom In. Hover the mouse pointer on data points to view X and T values.





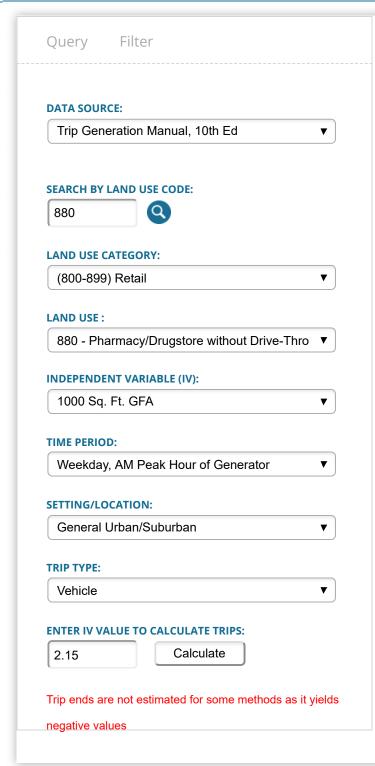
DATA STATISTICS

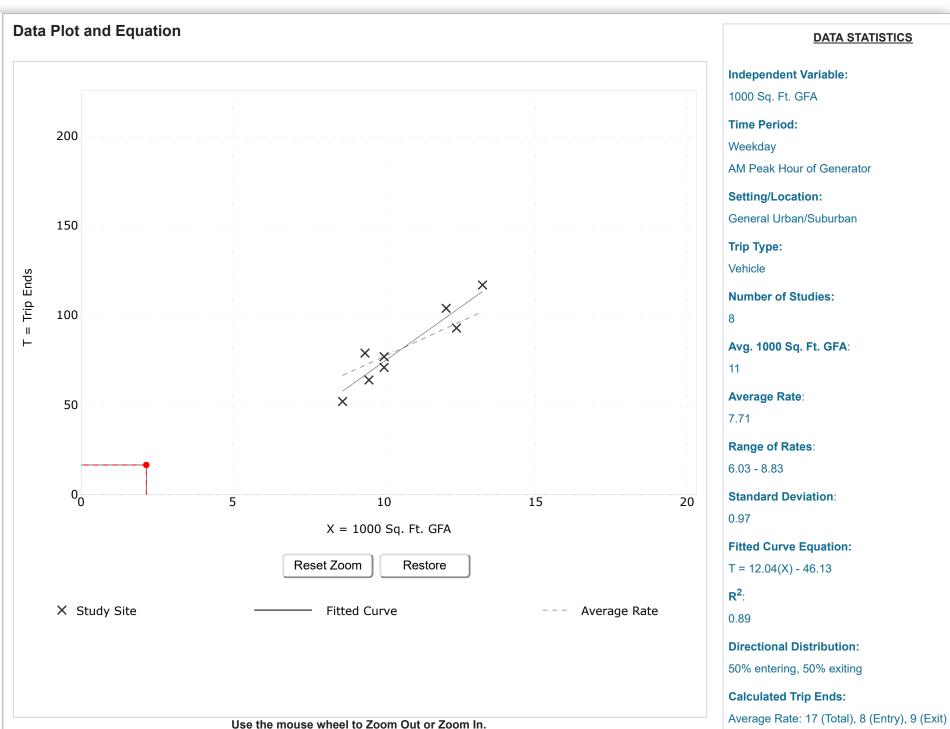
Fitted Curve: Not Available



Graph Look Up







Hover the mouse pointer on data points to view X and T values.

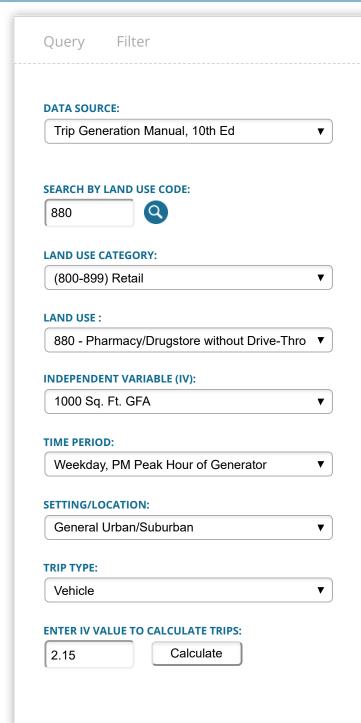


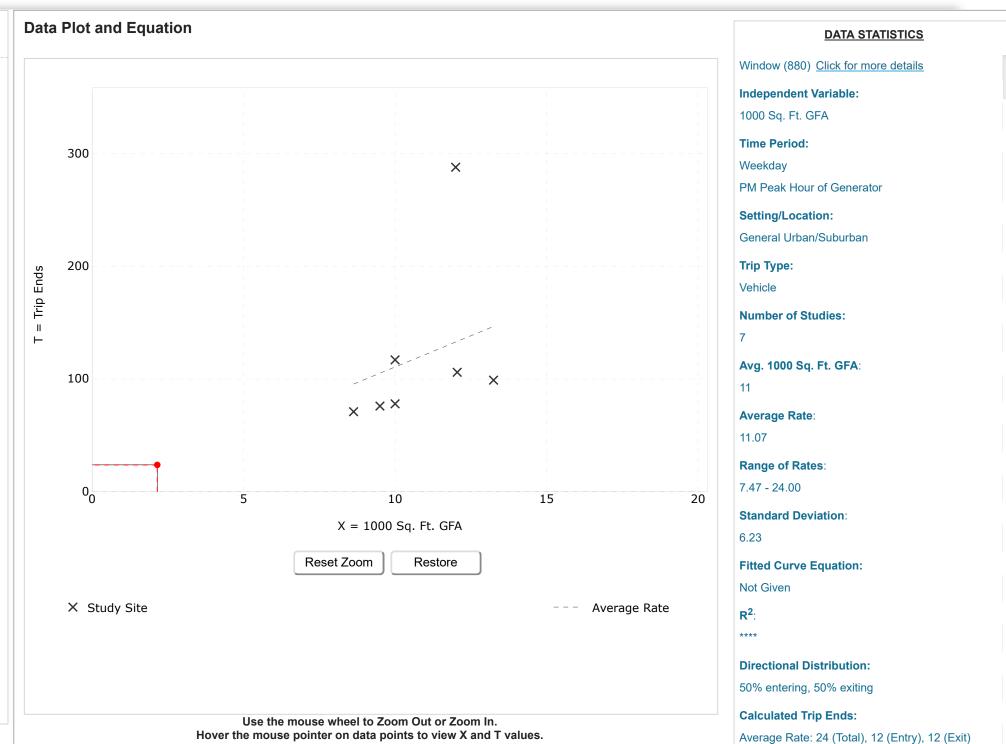










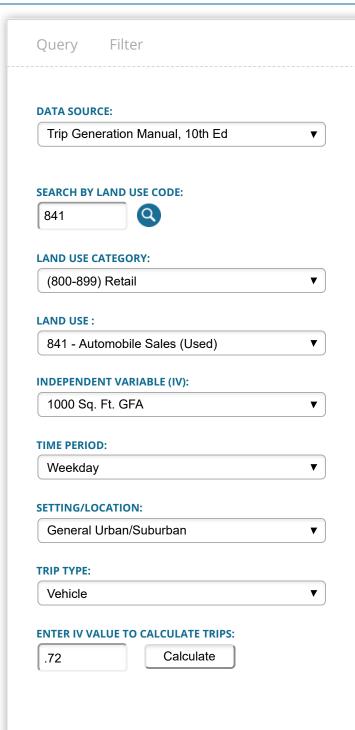


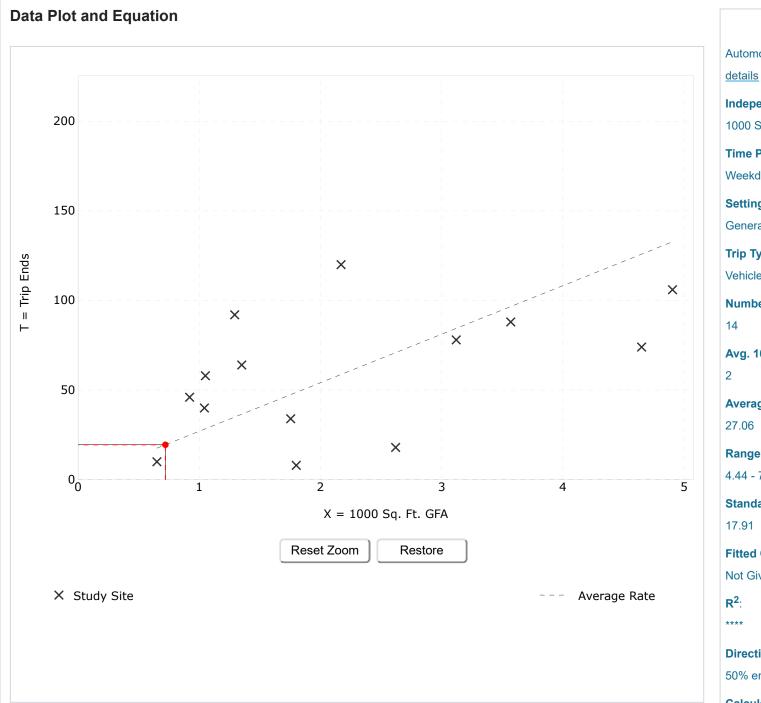












Use the mouse wheel to Zoom Out or Zoom In. Hover the mouse pointer on data points to view X and T values.

DATA STATISTICS

Automobile Sales (Used) (841) Click for more

Independent Variable:

1000 Sq. Ft. GFA

Time Period:

Weekday

Setting/Location:

General Urban/Suburban

Trip Type:

Vehicle

Number of Studies:

Avg. 1000 Sq. Ft. GFA:

Average Rate:

Range of Rates:

4.44 - 71.21

Standard Deviation:

Fitted Curve Equation:

Not Given

Directional Distribution:

50% entering, 50% exiting

Calculated Trip Ends:

Average Rate: 19 (Total), 9 (Entry), 10 (Exit)

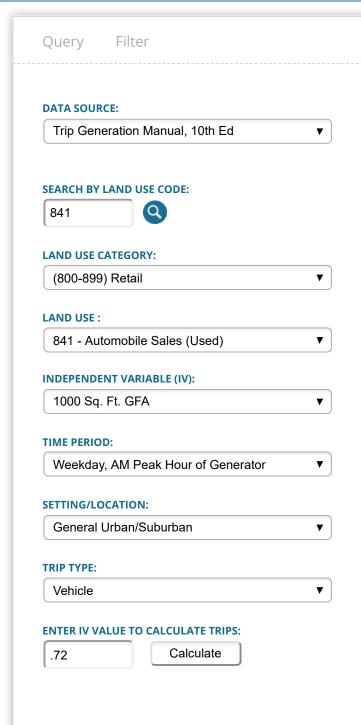


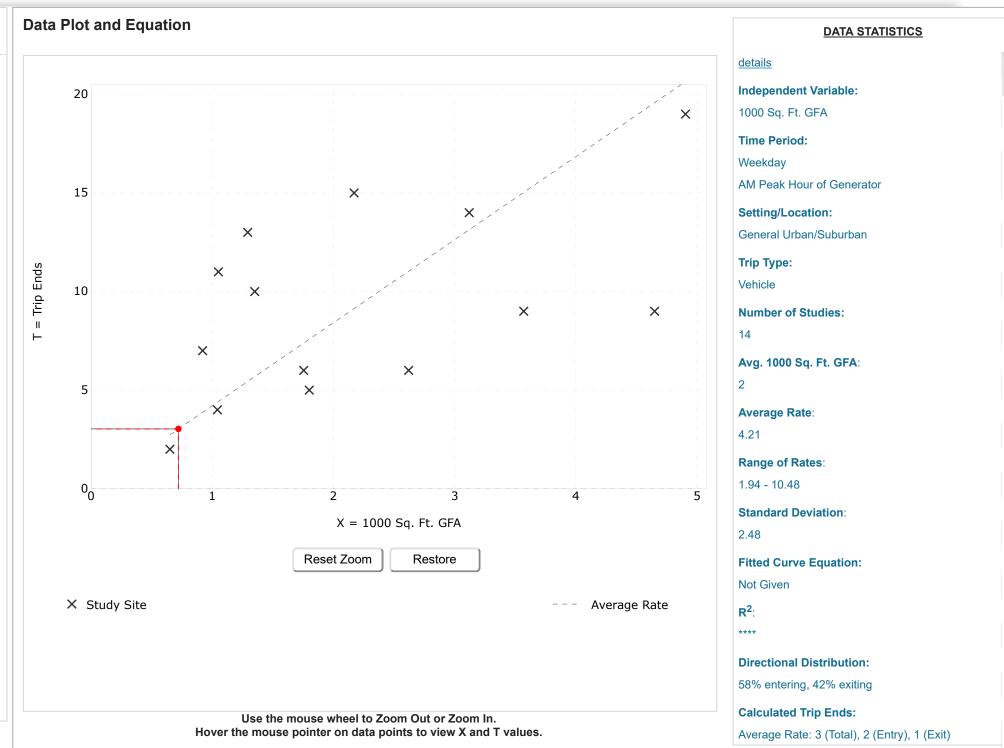










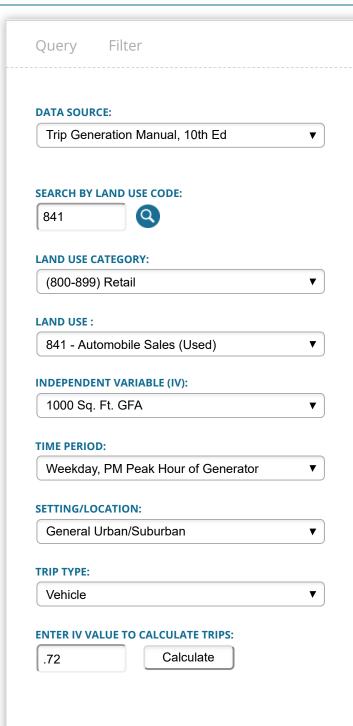


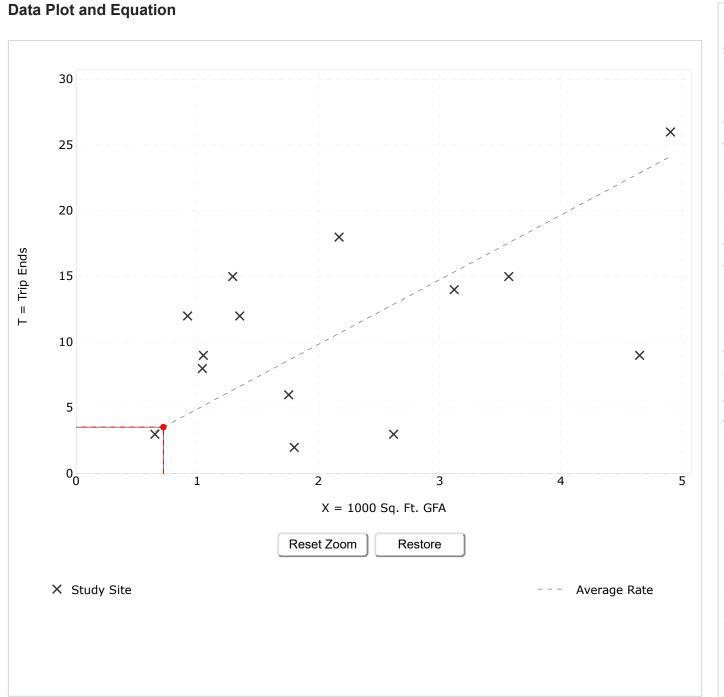












Use the mouse wheel to Zoom Out or Zoom In. Hover the mouse pointer on data points to view X and T values.



Independent Variable:

1000 Sq. Ft. GFA

Time Period:

Weekday

PM Peak Hour of Generator

Setting/Location:

General Urban/Suburban

Trip Type:

Vehicle

Number of Studies:

Avg. 1000 Sq. Ft. GFA:

Average Rate:

4.92

Range of Rates:

1.11 - 13.04

Standard Deviation:

Fitted Curve Equation:

Not Given

R²:

Directional Distribution:

50% entering, 50% exiting

Calculated Trip Ends:

Average Rate: 4 (Total), 2 (Entry), 2 (Exit)

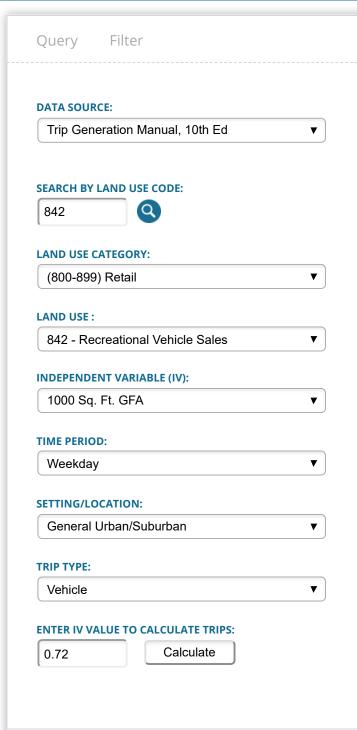


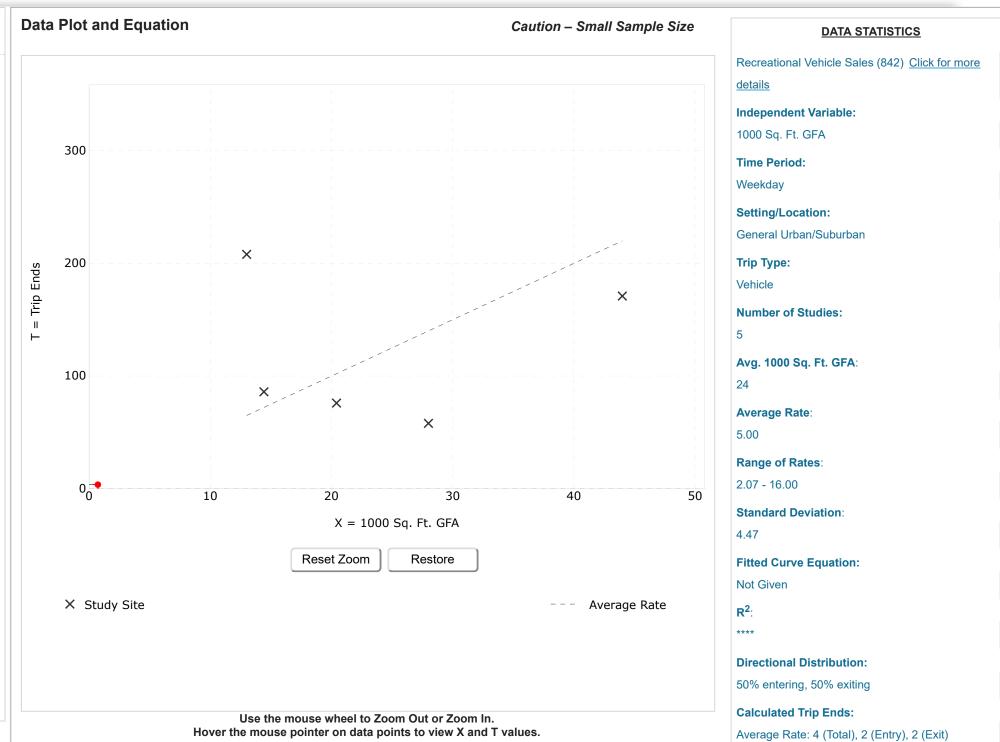












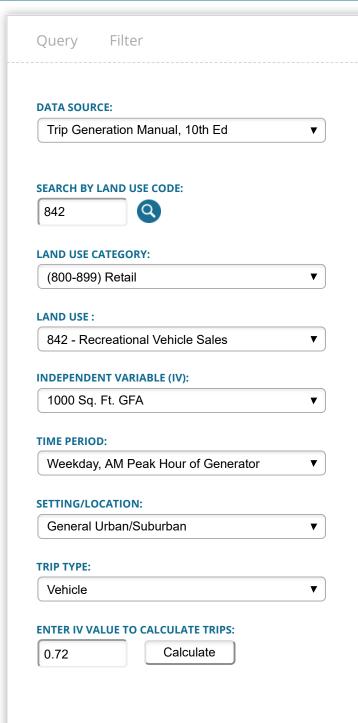


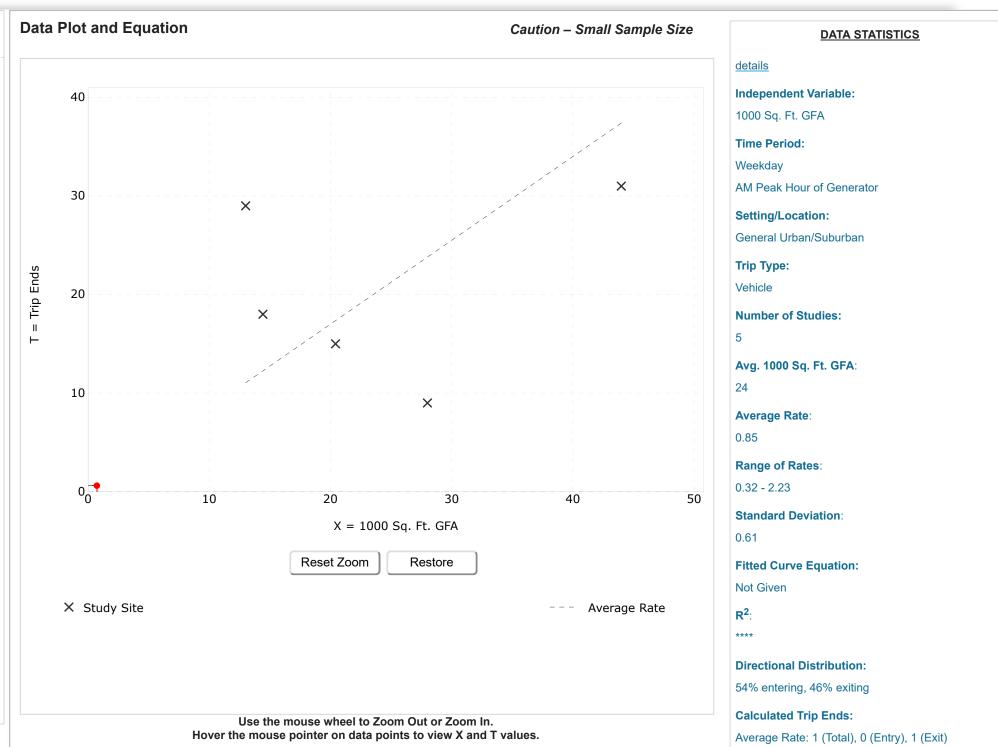










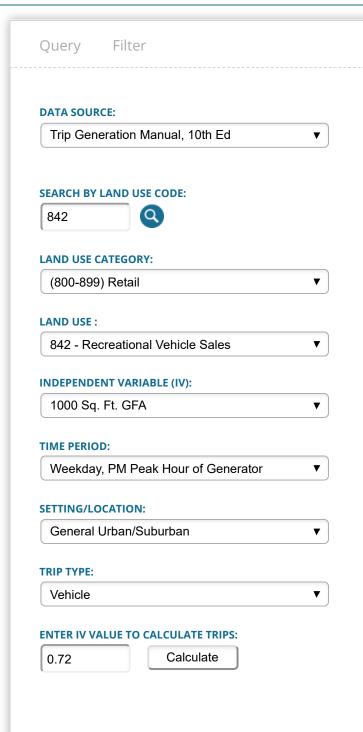


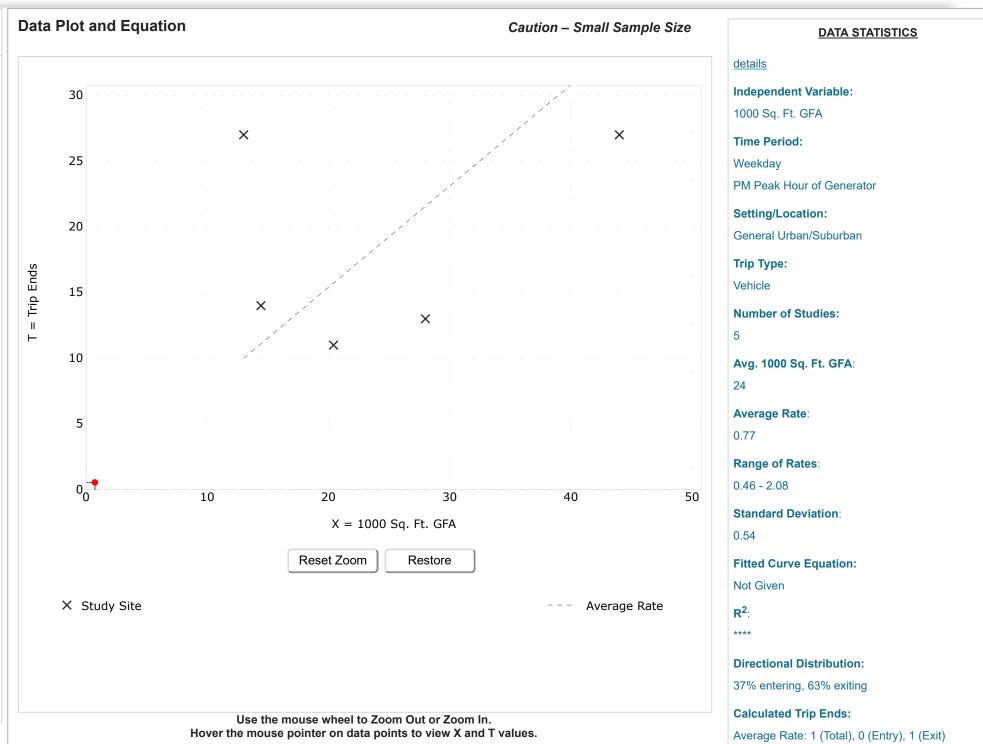










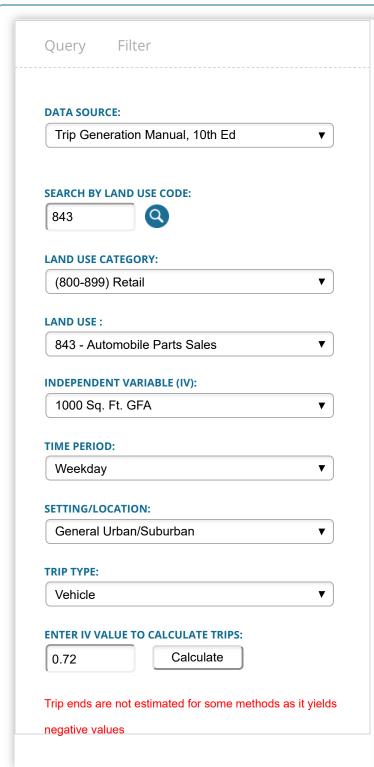


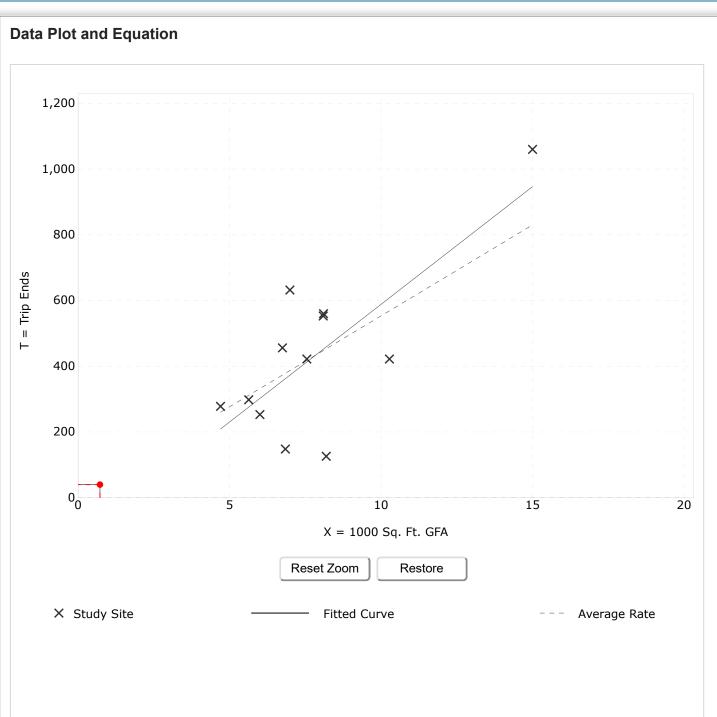












Use the mouse wheel to Zoom Out or Zoom In. Hover the mouse pointer on data points to view X and T values.

DATA STATISTICS

Automobile Parts Sales (843) Click for more details

Independent Variable:

1000 Sq. Ft. GFA

Time Period:

Weekday

Setting/Location:

General Urban/Suburban

Trip Type:

Vehicle

Number of Studies:

Avg. 1000 Sq. Ft. GFA:

Average Rate:

55.34

Range of Rates:

15.38 - 90.41

Standard Deviation:

21.57

Fitted Curve Equation:

T = 71.62(X) - 127.66

R²:

0.56

Directional Distribution:

50% entering, 50% exiting

Calculated Trip Ends:

Average Rate: 40 (Total), 20 (Entry), 20 (Exit)

Fitted Curve: Not Available













