

City of Puyallup Traffic Scoping Worksheet

PROJECT INFORMATION

Project Title: Larson River Road Auto Date: 9/25/23
 Applicant Name: Larson Automotive Group Telephone Number: 253.776.7027
 Project Description: Automotive Dealership Year of Occupancy: 2024
 Project Location: 8424 River Road Parcel Size: 7.47 acres
 Proposed Number of Access Point(s): 2 Existing Number of Access Point(s): 5

Land Use	Quantity	ITE Land Use Code	Average Daily Trips	AM Peak Hour Trips*	PM Peak Hour Trips*
Existing Use(s)					
See Attached summary					
Proposed Use(s)					
See Attached summary					
Net New Trips			-16.3	0.6	-5.9
Traffic Impact Fees: Net New PM Peak Hour Trips x \$4,500.00 = \$ <u>0 - reduction in trips</u>					

- * The peak hour project trips shall be rounded to the nearest tenth.
- * The project trips shall be estimated using the ITE's *Trip Generation*, 11th Edition.
- * Trip generation regression equations shall be used when the R² 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 all single-family units and offices and specialty retail centers smaller than 30,000 SF, use ITE's *Trip Generation*, 11th Edition, average rate.

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

- | | |
|---|----------|
| 1. <u>project results in reduction in trips</u> | 4. _____ |
| 2. <u>no intersections to be studied</u> | 5. _____ |
| 3. _____ | 6. _____ |
| 4. _____ | 8. _____ |

Prepared by: Traffic Engineer: Todd Sawin, PE Telephone Number: 253.383.2422

Address: 2215 N 30th, Suite 200, Tacoma, WA 98403

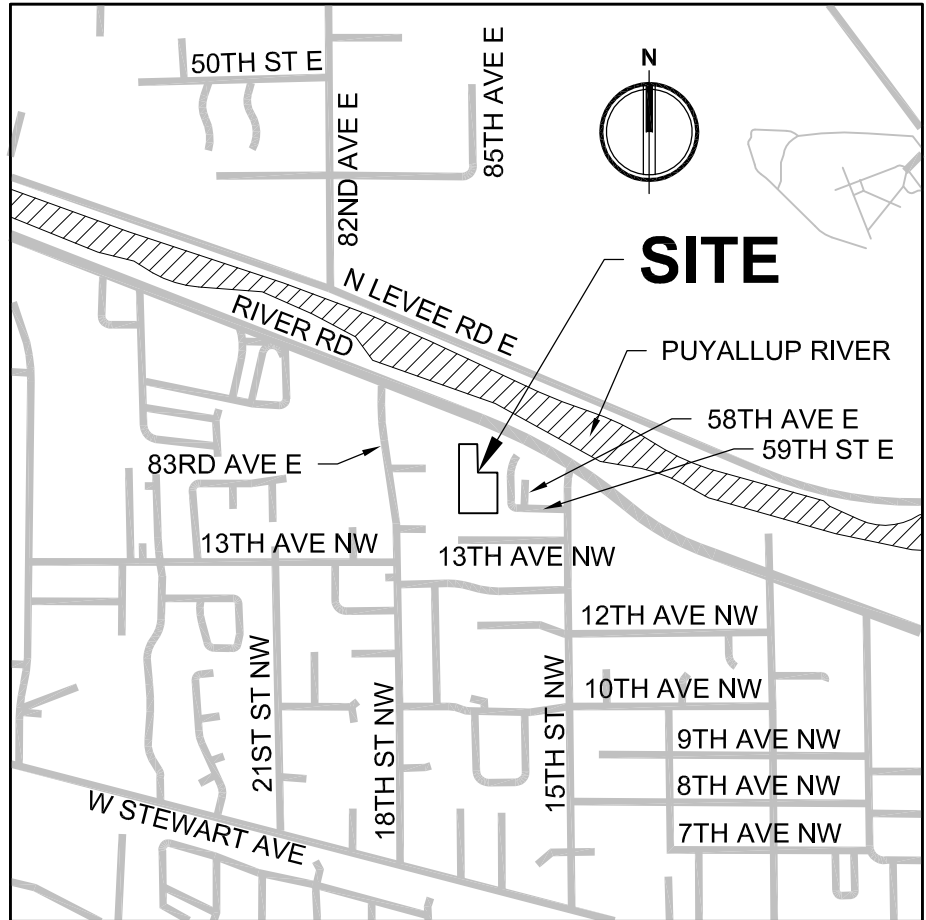
Office Use Only

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 N/A based on reduction of trips

Mail or hand deliver to 333 South Meridian, Puyallup, WA 98371 or e-mail to broberts@puyallupwa.gov



VICINITY MAP

SCALE: 1" = 1/4 MILE (1320')



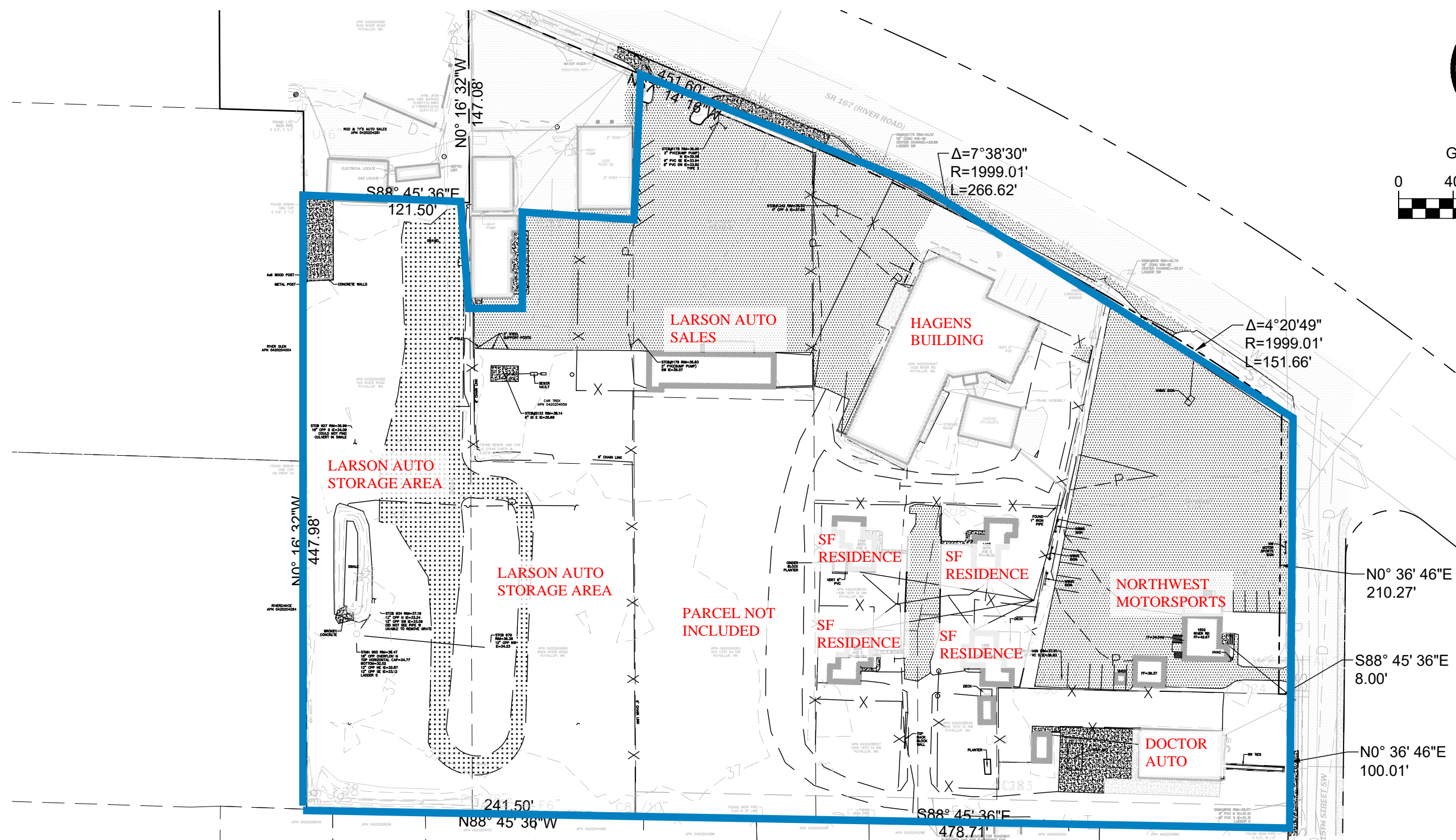
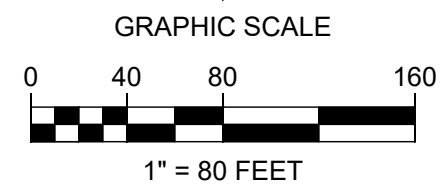
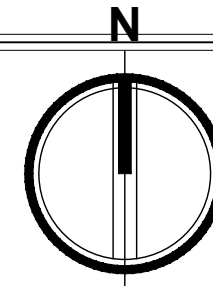
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 316 Occidental Avenue South, Suite 320, Seattle, WA 98104 206.267.2425 TEL.

*Civil Engineers
 Structural Engineers
 Landscape Architects
 Community Planners
 Land Surveyors
 Neighbors*

LARSON RIVER ROAD STORATE
 2160102.10

VICINITY MAP
05/06/2016

A-1



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LARSON RIVER ROAD STORAGE
2160102.10
EXISTING CONDITIONS MAP

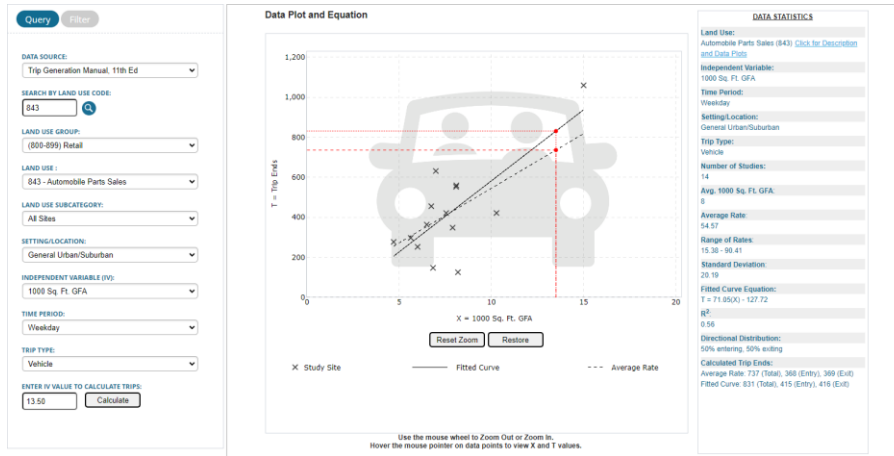
A-2

	LAND USE	QUANTITY	UNIT	ITE LAND USE CODE	AVERAGE DAILY TRIPS	AM PEAK HOUR TRIPS*	PM PEAK HOUR TRIPS*	NOTES
EXISTING	HAGENS AUTO - ASSUME 35% PART SALE	4.7264	KSF	843	257.9	11.9	23.2	Average rates used (54.57 ,2.51 , 4.90 respectively)
	HAGENS AUTO - 65% MACHINE SHOP	8.7776	KSF	110	42.7	6.5	5.7	Average rates used (4.87, 0.74, .65 respectively)
	NW MOTOR SPORTS	1.6	KSF	841	43.3	3.4	6.0	Average rates used (27.06, 2.13, 3.75 respectively)
	SERVICE GARAGE - DOCTOR AUTO	2.16	KSF	943	35.9	4.1	4.4	Average rates used (16.6, 1.91, 2.06 respectively)
	SINGLE FAMILY HOMES	4	EA	210	37.7	2.8	3.8	Average rates used (9.43, 0.7, 0.94 respectively)
	EXISTING AUTO STORAGE							Not included in calculations - outdoor space
	TOTAL				417.5	28.7	43.1	
	PROPOSED	LARSON AUTO SALES	13.504	KSF	840	365.4	25.1	32.7
SERVICE GARAGE - FOR ONSITE USE		2.16	KSF	943	35.9	4.1	4.4	Average rates used (16.6, 1.91, 2.06 respectively)
ONSITE AUTO STORAGE								Not included in calculations - existing outdoor space
TOTAL					401.3	29.2	37.1	
NET NEW TRIPS					-16.3	0.6	-5.9	NET REDUCTION IN TRAFFIC - CREDIT FOR FUTURE CONSTRUCTION SHOULD BE APPLIED
TRAFFIC IMPACT FEES: NET NEW PM PEAH HOUR TRIPS x \$4,4500.00 =							0	No increase in trips

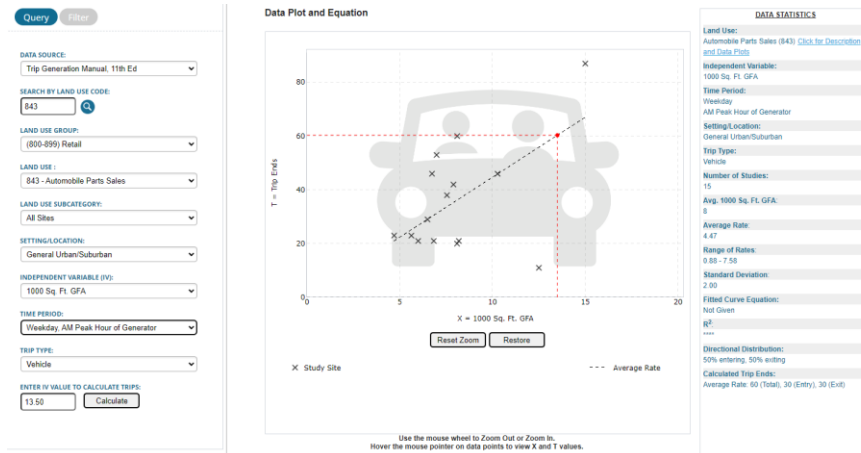
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HAGENS – ITE 843 with R2 0.56 – average used

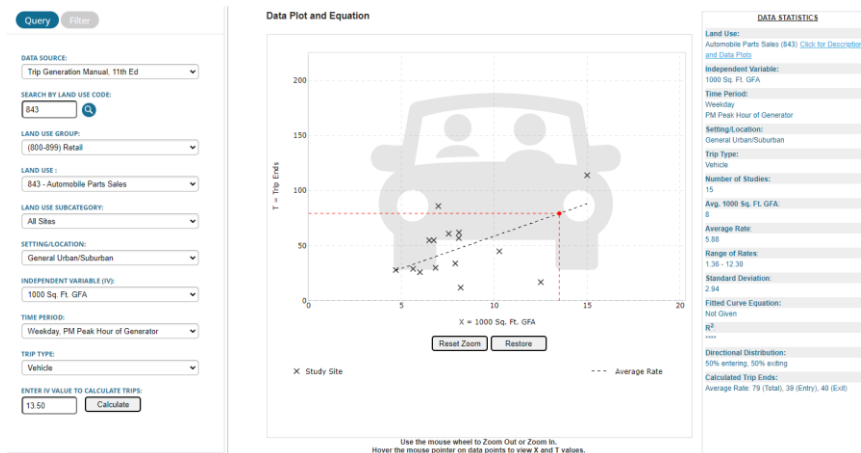
- Average Daily - 737



- AM Peak Hour - 60

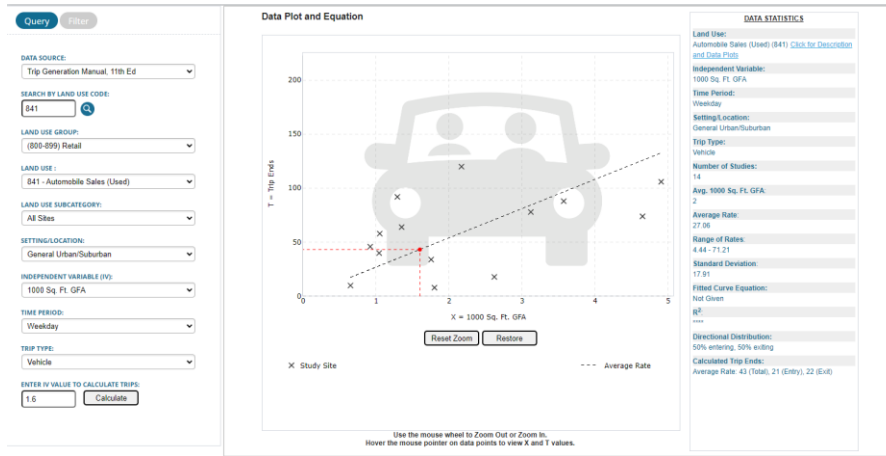


- PM Peak Hour - 79

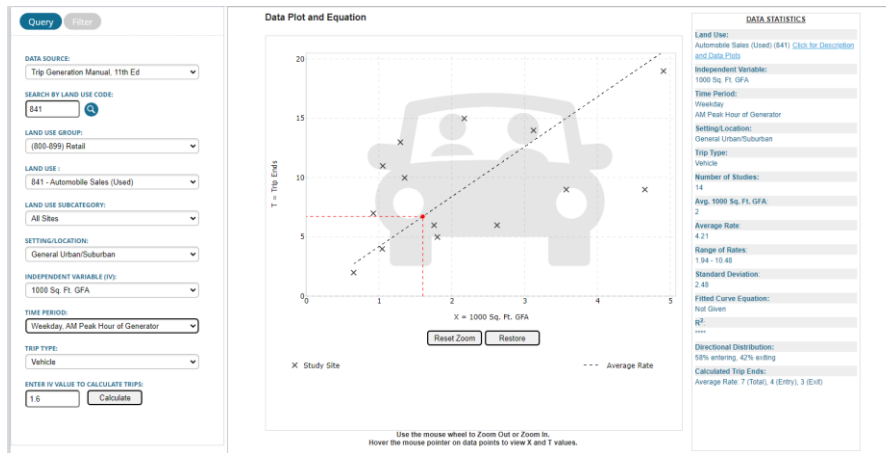


NW MOTORSPORTS – ITE 841 with R2 not provided – average used

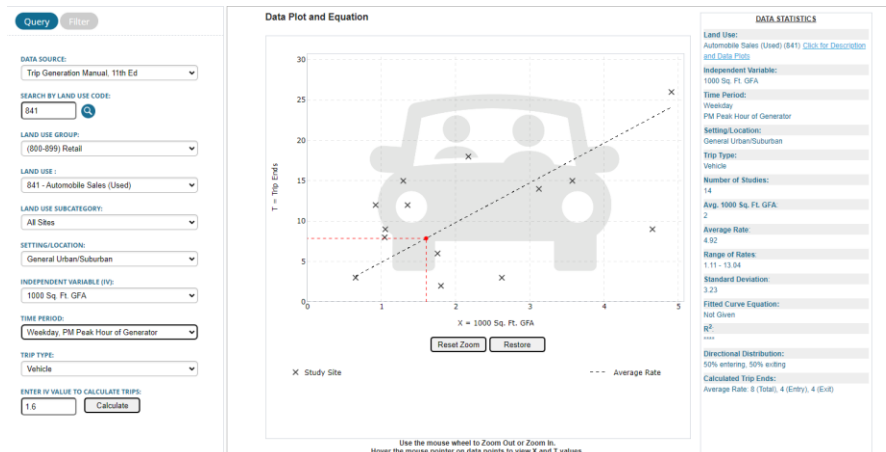
- Average Daily - 43



- AM Peak Hour - 7

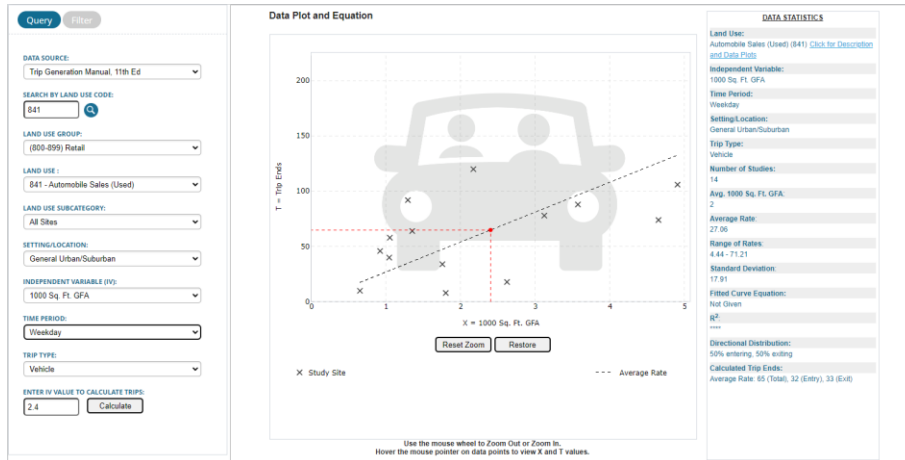


- PM Peak Hour - 8

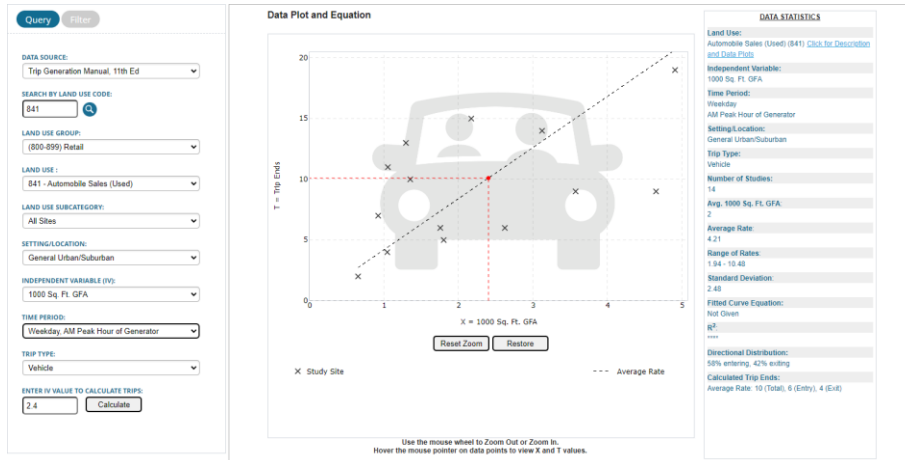


LARSON AUTO SALES – ITE 841 with R2 not provided – average used

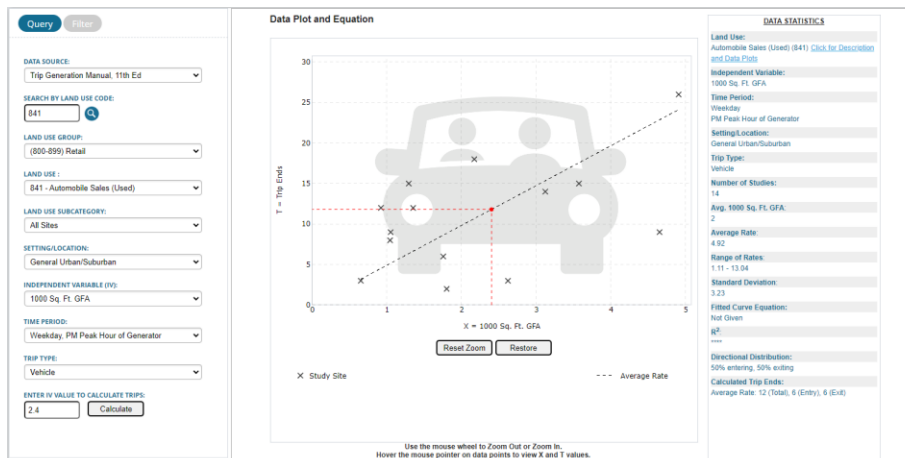
- Average Daily - 65



- AM Peak Hour - 10



- PM Peak Hour - 12



Doctor Auto – ITE 943 with R2 not listed – average used

- Average Daily - 36

Query Filter

DATA SOURCE: Trip Generation Manual, 11th Ed

SEARCH BY LAND USE CODE: 943

LAND USE GROUP: (900-999) Services

LAND USE: 943 - Automobile Parts and Service Center

LAND USE SUBCATEGORY: All Sites

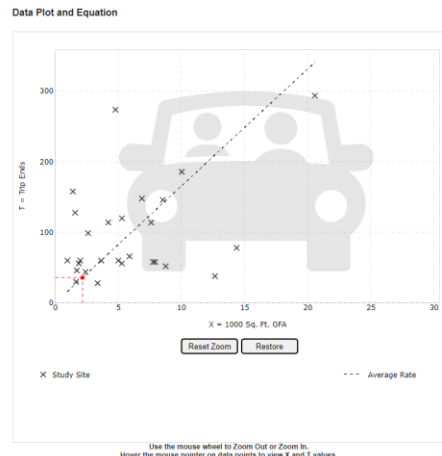
SETTING/LOCATION: General Urban/Suburban

INDEPENDENT VARIABLE (IV): 1000 Sq. Ft. GFA

TIME PERIOD: Weekday

TRIP TYPE: Vehicle

ENTER IV VALUE TO CALCULATE TRIPS: 2.16 Calculate



DATA STATISTICS

Land Use: Automobile Parts and Service Center (943) [Click for Description and Data Plot](#)

Independent Variable: 1000 Sq. Ft. GFA

Time Period: Weekday

Setting/Location: General Urban/Suburban

Trip Type: Vehicle

Number of Studies: 27

Avg. 1000 Sq. Ft. GFA: 9

Average Rate: 16.60

Range of Rates: 3.00 - 113.51

Standard Deviation: 16.17

Fitted Curve Equation: Not Given

R²: ----

Directional Distribution: 50% entering, 50% exiting

Calculated Trip Ends: Average Rate: 36 (Total), 18 (Entry), 18 (Exit)

- AM Peak Hour - 6

Query Filter

DATA SOURCE: Trip Generation Manual, 11th Ed

SEARCH BY LAND USE CODE: 943

LAND USE GROUP: (900-999) Services

LAND USE: 943 - Automobile Parts and Service Center

LAND USE SUBCATEGORY: All Sites

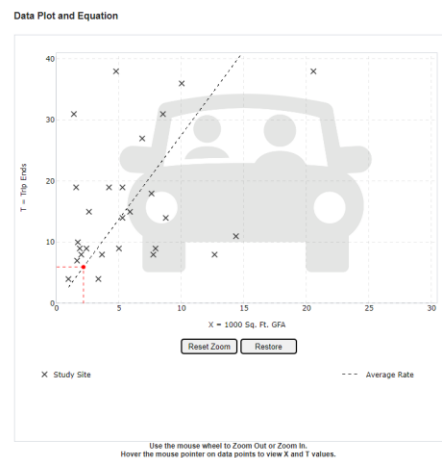
SETTING/LOCATION: General Urban/Suburban

INDEPENDENT VARIABLE (IV): 1000 Sq. Ft. GFA

TIME PERIOD: Weekday, AM Peak Hour of Generator

TRIP TYPE: Vehicle

ENTER IV VALUE TO CALCULATE TRIPS: 2.16 Calculate



DATA STATISTICS

Land Use: Automobile Parts and Service Center (943) [Click for Description and Data Plot](#)

Independent Variable: 1000 Sq. Ft. GFA

Time Period: Weekday, AM Peak Hour of Generator

Setting/Location: General Urban/Suburban

Trip Type: Vehicle

Number of Studies: 27

Avg. 1000 Sq. Ft. GFA: 9

Average Rate: 2.76

Range of Rates: 0.63 - 22.27

Standard Deviation: 2.68

Fitted Curve Equation: Not Given

R²: ----

Directional Distribution: 54% entering, 46% exiting

Calculated Trip Ends: Average Rate: 6 (Total), 3 (Entry), 3 (Exit)

- PM Peak Hour - 6

Query Filter

DATA SOURCE: Trip Generation Manual, 11th Ed

SEARCH BY LAND USE CODE: 943

LAND USE GROUP: (900-999) Services

LAND USE: 943 - Automobile Parts and Service Center

LAND USE SUBCATEGORY: All Sites

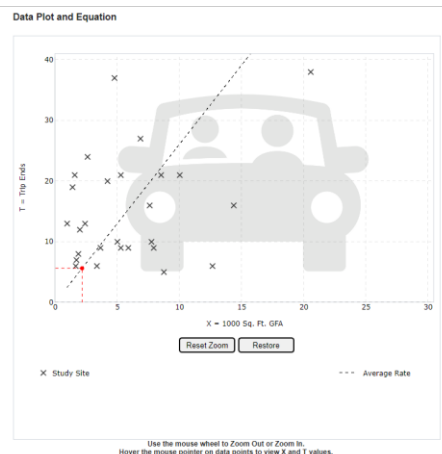
SETTING/LOCATION: General Urban/Suburban

INDEPENDENT VARIABLE (IV): 1000 Sq. Ft. GFA

TIME PERIOD: Weekday, PM Peak Hour of Generator

TRIP TYPE: Vehicle

ENTER IV VALUE TO CALCULATE TRIPS: 2.16 Calculate



DATA STATISTICS

Land Use: Automobile Parts and Service Center (943) [Click for Description and Data Plot](#)

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: 27

Avg. 1000 Sq. Ft. GFA: 9

Average Rate: 2.61

Range of Rates: 0.47 - 13.65

Standard Deviation: 2.55

Fitted Curve Equation: Not Given

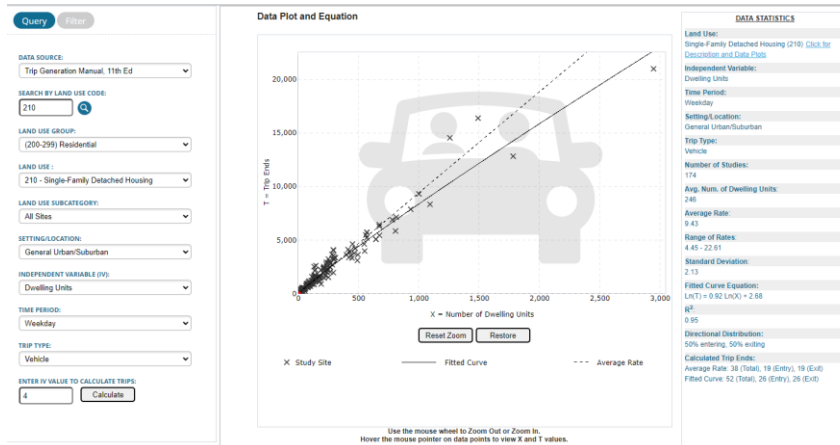
R²: ----

Directional Distribution: 44% entering, 56% exiting

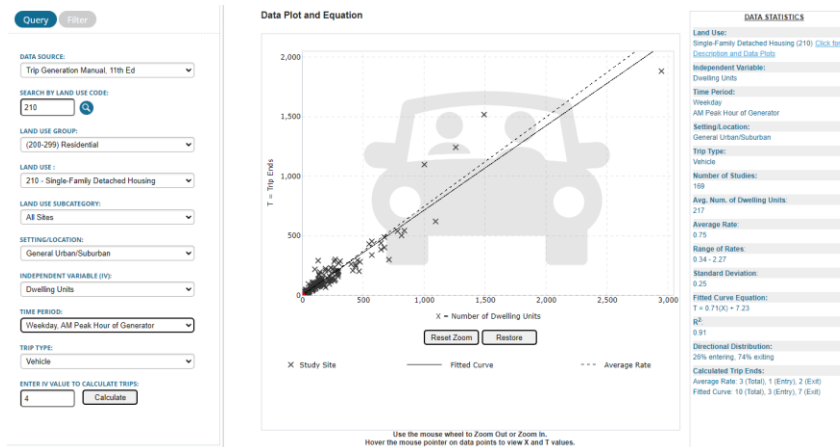
Calculated Trip Ends: Average Rate: 6 (Total), 2 (Entry), 4 (Exit)

Single Family Residence – ITE 210 with R2 0.95 – equation used

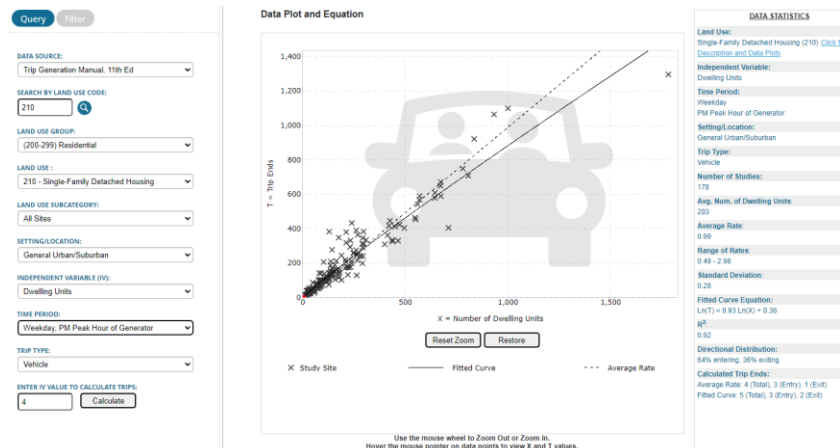
- Average Daily - 52



- AM Peak Hour - 10



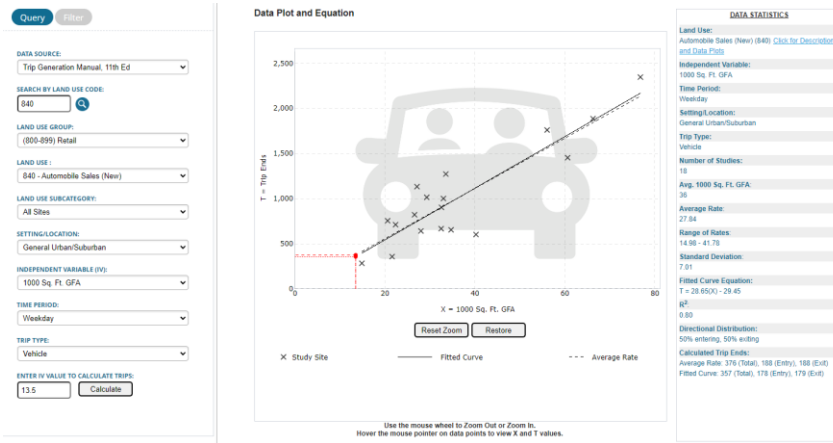
- PM Peak Hour - 5



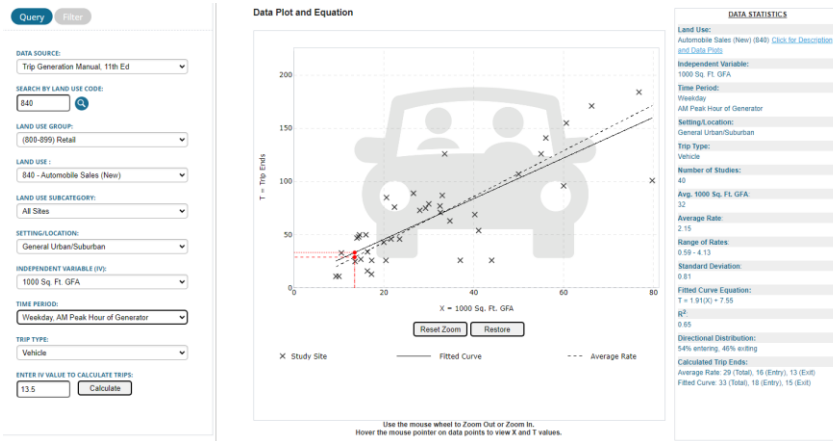
Larson Auto – ITE 840 used based on 841 not having high enough data points

Old Hagens Building

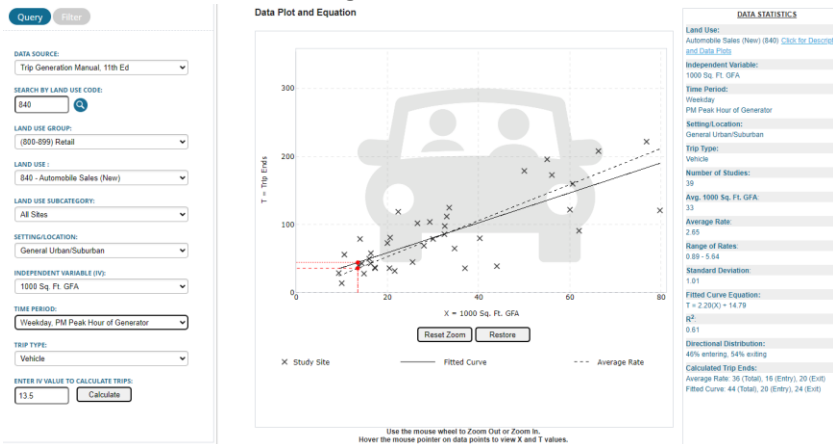
- Average Daily – 376 – used higher number to be safe



- AM Peak Hour – 33 – used higher number to be safe

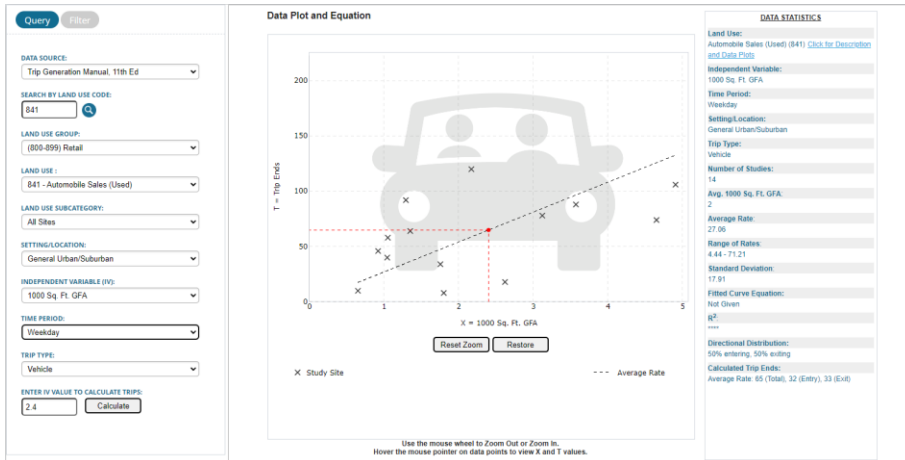


- PM Peak Hour – 44 – used higher number to be safe

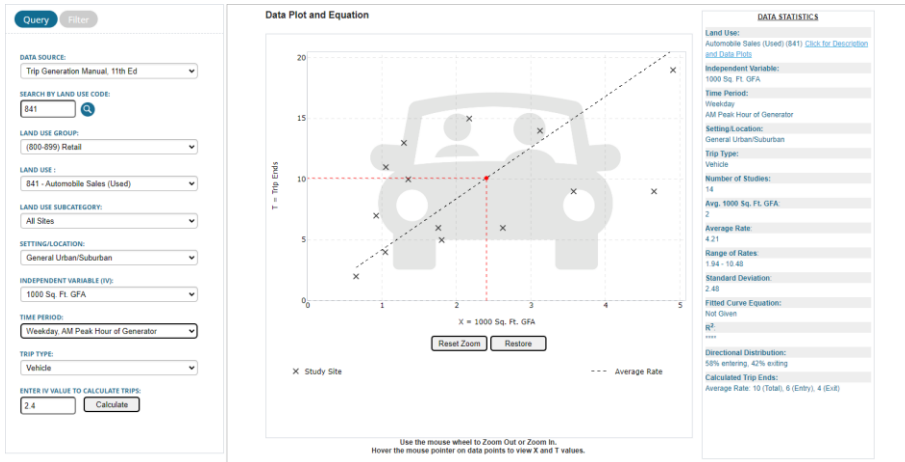


LARSON AUTO SALES – ITE 841 with R2 not provided – average used

- Average Daily - 65



- AM Peak Hour - 10



- PM Peak Hour - 12

