MEMORANDUM

To: Safety Programs Manager

From: PE, PTOE

Subject: Modified Type B Traffic Management Plan (TMP B Modified)
Contract T202506101 – Pavement & Rehabilitation, New Castle County, 2024 (Grouping NC5a)
Pre PS&E Plan Submission

Date: June 10, 2025

Approval: ______________________ **Date:** 06/11/2025
DelDOT Traffic Safety

Work Zone Impact Assessment

The limits of **Contract T202506101 – Pavement & Rehabilitation, New Castle County, 2024 (Grouping NC5a)** span approximately four (4) miles along SR 2 (Capitol Trail / Kirkwood Highway), from SR 273 (Newark Christiana Road) to Milltown Road in New Castle County. The proposed improvements for this project will consist of upgrading existing pedestrian connections for ADA-compliancy, upgrading existing guardrails per DelDOT Standards, pavement milling and overlay, new pavement markings, and signing.

This contract may require intermittent and/or continuous lane closures along SR 2 (Capitol Trail / Kirkwood Highway). Because SR 2 is classified as an other principal arterial carrying an AADT of approximately 23,150 to 34,073 vehicles per day, a "modified" Type B TMP is required for this project. Per DelDOT's Traffic Safety team, the modified Type B TMP is limited to a simple review of traffic volumes to determine appropriate time restrictions for lane closures during construction and to develop road user costs (RUCs) for potential lane closures.

SR 2 Hourly Traffic Volumes

On March 4, 2024, DelDOT provided hourly traffic volumes from January 1, 2023 through June 29, 2023 at the following locations along SR 2 in order to developed Allowable Lane Closure Hours and Road User Costs (RUCs):

- SR 2 @ Milltown Road (Signal Permit: N152)
- SR 2 @ Brewster Drive (Signal Permit: N300)
- SR 2 @ SR 72 (Signal Permit: N166)
- SR 2 @ E. Cleveland Avenue (Signal Permit: N422T)
- SR 273 @ Library Avenue (Signal Permit: N423T)

Attachment A includes graphs documenting the average weekday and weekend directional hourly traffic data for each location above, for typical weeks during each month of data provided. Chapter 5 of DelDOT's *Work Zone Safety and Mobility – Procedures and Guidelines* provides guidance for analyzing potential impacts in the work zone. Specifically, *Table 2: Measured Average Work Zone Capacities*, provides the work zone capacity for Interstates, freeways and expressways under lane closures, which is dependent upon the number of lanes during normal operations and the number of lanes open to traffic in the work zone. Per DelDOT Traffic Safety, the interstate/freeway/expressway work zone capacities provided in Table 2 should be reduced by 40% for conventional roadways like SR 2. Each direction along SR 2 contains two (2) through lanes with separate left turn and right turn lanes during normal traffic conditions. Per Table 2 within DelDOT's *Work Zone Safety and Mobility- Procedures and Guidelines,* the work zone capacity for the reduction of two (2) lanes to one (1) lane is 1,340 vehicles per hour for an interstate/freeway/expressway, or 804 vehicles per hour per lane (vphpl) with the 40% volume reduction.

The Hourly Traffic Count Data was utilized to determine the following Allowable Lane Closure Matrices throughout the project limits assuming a single lane capacity of 804 vphpl, as shown in **Tables 1 through 5**.

Table 1A. Allowable Lane Closure Hours
SR 2, East of Milltown Road – Eastbound Through/Turn Lanes

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM
SUNDAY	1	1	1	1	1	1	1	1	1	1	1							1	1	1	1	1	1	1
MONDAY	1	1	1	1	1	1	1				1	1								1	1	1	1	1
TUESDAY	1	1	1	1	1	1	1				1	1								1	1	1	1	1
WEDNESDAY	1	1	1	1	1	1	1				1	1								1	1	1	1	1
THURSDAY	1	1	1	1	1	1	1				1	1								1	1	1	1	1
FRIDAY	1	1	1	1	1	1	1				1	1								1	1	1	1	1
SATURDAY	1	1	1	1	1	1	1	1	1	1	1							1	1	1	1	1	1	1

(shaded)	One Lane Closure
(unshaded)	No Lane Closure

Table 1B. Allowable Lane Closure Hours
SR 2, West of Milltown Road – Westbound Through/Turn Lanes

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM
SUNDAY	1	1	1	1	1	1	1	1	1	1	1	1					1	1	1	1	1	1	1	1
MONDAY	1	1	1	1	1	1	1	1	1	1	1	1								1	1	1	1	1
TUESDAY	1	1	1	1	1	1	1	1	1	1	1	1								1	1	1	1	1
WEDNESDAY	1	1	1	1	1	1	1	1	1	1	1	1								1	1	1	1	1
THURSDAY	1	1	1	1	1	1	1	1	1	1	1	1								1	1	1	1	1
FRIDAY	1	1	1	1	1	1	1	1	1	1	1	1								1	1	1	1	1
SATURDAY	1	1	1	1	1	1	1	1	1	1	1	1					1	1	1	1	1	1	1	1

(shaded)	One Lane Closure
(unshaded)	No Lane Closure

Table 2A. Allowable Lane Closure Hours
SR 2, East of Brewster Drive – Eastbound Through/Turn Lanes

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM
SUNDAY	1	1	1	1	1	1	1	1	1	1	1							1	1	1	1	1	1	1
MONDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
TUESDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
WEDNESDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
THURSDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
FRIDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
SATURDAY	1	1	1	1	1	1	1	1	1	1	1							1	1	1	1	1	1	1

(shaded)	One Lane Closure
(unshaded)	No Lane Closure

Table 2B. Allowable Lane Closure Hours
SR 2, West of Brewster Drive – Westbound Through/Turn Lanes

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM
SUNDAY	1	1	1	1	1	1	1	1	1	1	1	1						1	1	1	1	1	1	1
MONDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
TUESDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
WEDNESDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
THURSDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
FRIDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
SATURDAY	1	1	1	1	1	1	1	1	1	1	1	1						1	1	1	1	1	1	1

(shaded)	One Lane Closure
(unshaded)	No Lane Closure

Table 3A. Allowable Lane Closure Hours
SR 2, East of SR 72 – Eastbound Through/Turn Lanes

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM
SUNDAY	1	1	1	1	1	1	1	1	1	1	1						1	1	1	1	1	1	1	1
MONDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
TUESDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
WEDNESDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
THURSDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
FRIDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
SATURDAY	1	1	1	1	1	1	1	1	1	1	1						1	1	1	1	1	1	1	1

(shaded)	One Lane Closure
(unshaded)	No Lane Closure

Table 3B. Allowable Lane Closure Hours
SR 2, West of SR 72 – Westbound Through/Turn Lanes

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM
SUNDAY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MONDAY	1	1	1	1	1	1	1			1	1	1	1	1					1	1	1	1	1	1
TUESDAY	1	1	1	1	1	1	1			1	1	1	1	1					1	1	1	1	1	1
WEDNESDAY	1	1	1	1	1	1	1			1	1	1	1	1					1	1	1	1	1	1
THURSDAY	1	1	1	1	1	1	1			1	1	1	1	1					1	1	1	1	1	1
FRIDAY	1	1	1	1	1	1	1			1	1	1	1	1					1	1	1	1	1	1
SATURDAY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

(shaded)	One Lane Closure
(unshaded)	No Lane Closure

Table 4A. Allowable Lane Closure Hours
SR 2, East of E. Cleveland Avenue – Eastbound Through/Turn Lanes

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM
SUNDAY	1	1	1	1	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1
MONDAY	1	1	1	1	1	1	1	1	1	1	1	1	1						1	1	1	1	1	1
TUESDAY	1	1	1	1	1	1	1	1	1	1	1	1	1						1	1	1	1	1	1
WEDNESDAY	1	1	1	1	1	1	1	1	1	1	1	1	1						1	1	1	1	1	1
THURSDAY	1	1	1	1	1	1	1	1	1	1	1	1	1						1	1	1	1	1	1
FRIDAY	1	1	1	1	1	1	1	1	1	1	1	1	1						1	1	1	1	1	1
SATURDAY	1	1	1	1	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1

(shaded)	One Lane Closure
(unshaded)	No Lane Closure

Table 4B. Allowable Lane Closure Hours
SR 2, West of E. Cleveland Avenue – Westbound Through/Turn Lanes

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM
SUNDAY	1	1	1	1	1	1	1	1											1	1	1	1	1	1
MONDAY	1	1	1	1	1	1															1	1	1	1
TUESDAY	1	1	1	1	1	1															1	1	1	1
WEDNESDAY	1	1	1	1	1	1															1	1	1	1
THURSDAY	1	1	1	1	1	1															1	1	1	1
FRIDAY	1	1	1	1	1	1															1	1	1	1
SATURDAY	1	1	1	1	1	1	1	1											1	1	1	1	1	1

(shaded)	One Lane Closure
(unshaded)	No Lane Closure

Table 5. Allowable Lane Closure Hours
SR 72 / Library Ave, North of SR 273 – Northbound Through/Turn Lanes

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM
SUNDAY	1	1	1	1	1	1	1	1	1	1	1							1	1	1	1	1	1	1
MONDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
TUESDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
WEDNESDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
THURSDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
FRIDAY	1	1	1	1	1	1	1			1	1	1								1	1	1	1	1
SATURDAY	1	1	1	1	1	1	1	1	1	1	1							1	1	1	1	1	1	1

(shaded)	One Lane Closure
	No Lane Closure

Following submission of the Draft TMP B Modified as part of the Semi-Final Submission in March 2024, DelDOT Traffic Safety requested one matrix for SR 2 eastbound and one matrix for SR 2 Westbound to be used for the entire project limits. **Tables 6A and 6B** provide the recommended Allowable Lane Closure hours for both directions of SR 2 for this project. The Final Construction Plans have been updated to include these hours.

Table 6A. Allowable Lane Closure Hours
SR 2 Eastbound Through/Turn Lanes and Side Streets

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM
SUNDAY	1	1	1	1	1	1	1	1	1	1	1							1	1	1	1	1	1	1
MONDAY	1	1	1	1	1	1	1				1	1								1	1	1	1	1
TUESDAY	1	1	1	1	1	1	1				1	1								1	1	1	1	1
WEDNESDAY	1	1	1	1	1	1	1				1	1								1	1	1	1	1
THURSDAY	1	1	1	1	1	1	1				1	1								1	1	1	1	1
FRIDAY	1	1	1	1	1	1	1				1	1								1	1	1	1	1
SATURDAY	1	1	1	1	1	1	1	1	1	1	1							1	1	1	1	1	1	1

(shaded)	One Lane Closure
	No Lane Closure

Table 6B. Allowable Lane Closure Hours
SR 2 Westbound Through/Turn Lanes and Side Streets

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM
SUNDAY	1	1	1	1	1	1	1	1											1	1	1	1	1	1
MONDAY	1	1	1	1	1	1															1	1	1	1
TUESDAY	1	1	1	1	1	1															1	1	1	1
WEDNESDAY	1	1	1	1	1	1															1	1	1	1
THURSDAY	1	1	1	1	1	1															1	1	1	1
FRIDAY	1	1	1	1	1	1															1	1	1	1
SATURDAY	1	1	1	1	1	1	1	1											1	1	1	1	1	1

(shaded)	One Lane Closure
	No Lane Closure

Construction Phasing Narrative

The construction duration and commencement for this project is to be determined. Time of year, environmental, and utility restrictions will determine the allowable months to conduct the proposed work, which will be determined by DelDOT. Intermittent lane and shoulder closures will be required to facilitate the work.

Road User Costs

Road User Costs (RUC) for single lane closures along SR 2 were calculated following the procedures outlined in DelDOT's *DGM1-24 (Road User Cost Analysis)* to estimate the work zone impacts. These RUCs were estimated along both eastbound and westbound for weekday vs. weekend. The RUC calculations are summarized in **Tables 7A-11**, and detailed calculations are provided in **Attachment B**.

Table 7A. Calculated 15-Min Road User Costs for a Single Lane Closure for Table 1A

Day of the Week	Time	15-Min RUC
Weekday	7:00 AM	$739.48
	8:00 AM	$1,817.10
	9:00 AM	$1,768.23
	10:00 AM	$1,238.25
	11:00 AM	$1,097.49
	12:00 PM	$1,575.62
	1:00 PM	$1,910.74
	2:00 PM	$2,796.35
	3:00 PM	$4,378.59
	4:00 PM	$6,446.83
	5:00 PM	$7,579.92*
	6:00 PM	$6,241.92
	7:00 PM	$4,110.21
	8:00 PM	$2,575.16
	9:00 PM	$1,161.77
	10:00 PM	$171.02
Weekend	11:00 AM	$202.07
	12:00 PM	$931.75
	1:00 PM	$1,561.02
	2:00 PM	$1,811.85
	3:00 PM	$1,956.55
	4:00 PM	$1,928.26
	5:00 PM	$1,455.22
	6:00 PM	$802.00

*Highest 15-min RUC

Table 7B. Calculated 15-Min Road User Costs for a Single Lane Closure for Table 1B

Day of the Week	Time	15-Min RUC
Weekday	12:00 PM	$83.76
	1:00 PM	$319.98
	2:00 PM	$806.39
	3:00 PM	$2,430.42
	4:00 PM	$4,983.18
	5:00 PM	$8,048.15*
	6:00 PM	$6,969.37
	7:00 PM	$4,522.20
	8:00 PM	$2,742.43
	9:00 PM	$1,227.76
	10:00 PM	$213.08
Weekend	12:00 PM	$389.86
	1:00 PM	$957.88
	2:00 PM	$1,360.91
	3:00 PM	$1,364.79
	4:00 PM	$1,301.43
	5:00 PM	$1,025.39
	6:00 PM	$494.65

*Highest 15-min RUC

Table 8A. Calculated 15-Min Road User Costs for a Single Lane Closure for Table 2A

Day of the Week	Time	15-Min RUC
Weekday	7:00 AM	$503.68
	8:00 AM	$1,066.28
	9:00 AM	$636.19
	10:00 AM	$257.10
	12:00 PM	$101.12
	1:00 PM	$205.86
	2:00 PM	$516.23
	3:00 PM	$1,093.50
	4:00 PM	$1,984.17
	5:00 PM	$3,327.41*
	6:00 PM	$2,846.71
	7:00 PM	$1,637.18
	8:00 PM	$592.03
Weekend	11:00 AM	$70.02
	12:00 PM	$677.59
	1:00 PM	$1,111.55
	2:00 PM	$1,316.52
	3:00 PM	$1,277.71
	4:00 PM	$1,054.97
	5:00 PM	$672.38
	6:00 PM	$67.22

*Highest 15-min RUC

Table 8B. Calculated 15-Min Road User Costs for a Single Lane Closure for Table 2B

Day of the Week	Time	15-Min RUC
Weekday	7:00 AM	$53.03
	8:00 AM	$284.49
	12:00 PM	$190.95
	1:00 PM	$461.84
	2:00 PM	$1,532.74
	3:00 PM	$3,675.01
	4:00 PM	$7,174.16
	5:00 PM	$10,309.00*
	6:00 PM	$8,877.67
	7:00 PM	$6,385.64
	8:00 PM	$4,560.10
	9:00 PM	$2,314.26
	10:00 PM	$771.83
	11:00 PM	$92.43
Weekend	12:00 PM	$301.48
	1:00 PM	$712.18
	2:00 PM	$1,119.31
	3:00 PM	$1,430.43
	4:00 PM	$1,520.24
	5:00 PM	$1,381.37
	6:00 PM	$912.72
	7:00 PM	$223.49

*Highest 15-min RUC

Table 9A. Calculated 15-Min Road User Costs for a Single Lane Closure for Table 3A

Day of the Week	Time	15-Min RUC
Weekday	7:00 AM	$627.93
	8:00 AM	$784.92
	9:00 AM	$326.31
	12:00 PM	$198.35
	1:00 PM	$543.81
	2:00 PM	$1,628.25
	3:00 PM	$3,506.54
	4:00 PM	$5,662.44
	5:00 PM	$6,742.76*
	6:00 PM	$4,954.68
	7:00 PM	$3,261.77
	8:00 PM	$1,746.45
	9:00 PM	$594.55
Weekend	11:00 AM	$289.73
	12:00 PM	$815.08
	1:00 PM	$1,150.91
	2:00 PM	$1,375.28
	3:00 PM	$1,373.75
	4:00 PM	$1,082.16
	5:00 PM	$614.73
	6:00 PM	$9.41

*Highest 15-min RUC

Table 9B. Calculated 15-Min Road User Costs for a Single Lane Closure for Table 3B

Day of the Week	Time	15-Min RUC
Weekday	7:00 AM	$76.88
	8:00 AM	$74.74
	2:00 PM	$213.26
	3:00 PM	$766.88
	4:00 PM	$1,385.16
	5:00 PM	$1,582.75*
	6:00 PM	$1,132.06
	7:00 PM	$361.00

*Highest 15-min RUC

Table 10A. Calculated 15-Min Road User Costs for a Single Lane Closure for Table 4A

Day of the Week	Time	15-Min RUC
Weekday	1:00 PM	$205.79
	2:00 PM	$906.34
	3:00 PM	$2,221.53
	4:00 PM	$4,108.18
	5:00 PM	$4,245.88*
	6:00 PM	$2,844.10
	7:00 PM	$1,543.84
	8:00 PM	$461.04
Weekend	11:00 AM	$132.88
	12:00 PM	$273.22
	1:00 PM	$249.28
	2:00 PM	$184.02
	3:00 PM	$94.09

*Highest 15-min RUC

Table 10B. Calculated 15-Min Road User Costs for a Single Lane Closure for Table 4B

Day of the Week	Time	15-Min RUC
Weekday	6:00 AM	$1,518.39
	7:00 AM	$5,686.46
	8:00 AM	$7,707.18
	9:00 AM	$7,408.42
	10:00 AM	$8,688.97
	11:00 AM	$11,873.67
	12:00 AM	$15,228.13
	1:00 PM	$17,566.46
	2:00 PM	$22,114.07
	3:00 PM	$27,422.20
	4:00 PM	$33,423.56
	5:00 PM	$33,896.61*
	6:00 PM	$27,894.88
	7:00 PM	$21,760.88
	8:00 PM	$15,519.53
	9:00 PM	$9,536.52
	10:00 PM	$5,483.24
	11:00 PM	$2,584.38
Weekend	8:00 AM	$104.62
	9:00 AM	$1,143.48
	10:00 AM	$3,085.65
	11:00 AM	$6,164.53
	12:00 PM	$9,302.91
	1:00 PM	$11,297.03
	2:00 PM	$12,841.18
	3:00 PM	$13,875.35
	4:00 PM	$14,568.00
	5:00 PM	$13,091.39
	6:00 PM	$10,729.11
	7:00 PM	$8,917.30
	8:00 PM	$6,522.30
	9:00 PM	$3,911.36
	10:00 PM	$2,079.80
	11:00 PM	$778.23

*Highest 15-min RUC

Table 11. Calculated 15-Min Road User Costs for a Single Lane Closure for Table 5

Day of the Week	Time	15-Min RUC
Weekday	7:00 AM	$278.05
	8:00 AM	$490.01
	9:00 AM	$181.92
	12:00 AM	$297.55
	1:00 PM	$888.81
	2:00 PM	$2,316.72
	3:00 PM	$4,913.42
	4:00 PM	$8,001.36
	5:00 PM	$8,987.66*
	6:00 PM	$6,893.35
	7:00 PM	$4,899.42
	8:00 PM	$3,079.94
	9:00 PM	$1,502.32
	10:00 PM	$381.13
Weekend	11:00 AM	$341.17
	12:00 PM	$845.58
	1:00 PM	$1,305.23
	2:00 PM	$1,714.14
	3:00 PM	$2,012.08
	4:00 PM	$1,966.16
	5:00 PM	$1,722.33
	6:00 PM	$1,020.31
	7:00 PM	$234.63

*Highest 15-min RUC

The highest 15-min RUC of the values in **Tables 7A –11** is $33,896.61. Upon review by Traffic Safety and Construction, a RUC for single lane closures along SR 2 will be determined.

Work Zone Impacts Management Strategies

Traffic Control Plan (TCP) Strategies

During construction, lane shifts and/or closures will be used to direct motorists around the work zone. Portable Changeable Message Signs (PCMS) and advance warning signs will be used to inform motorists of the changes to traffic patterns within the project area. Signage should conform to guidelines as published in the DE MUTCD. The implementation of the MOT plan should be coordinated with any adjacent construction projects and local transit services such as DART and local schools.

Transportation Operations (TO) Strategies

The following strategies should be used to mitigate work zone impacts during construction required:

- Implementation of Portable Changeable Message Signs (PCMS), posted ten (10) days prior to all lane shifts and closures.
- To eliminate the need for temporary detection and reduce the amount of time that signals are in RECALL, this project will install detection loops within the milled surface, per guidance and direction from Traffic Safety.
- Management by the Transportation Management Center (TMC) for traffic operations and incidents in and around the work zone.
- DelDOT Safety Officer:
  - On-site inspection and supervision of traffic control operations, and setups should be provided to ensure safety and mobility around the work zone.
  - Serve as contact with emergency services
- ATSSA-certified field personnel – Monitor safety and operations in the work zone and coordinate with DelDOT Construction and the Safety Officer

Additional strategies will be coordinated with DelDOT Traffic Safety and Construction.

Public Information (PI) and Outreach Strategies

It is important that public outreach be used to inform the public in advance of and during the project construction to ensure that the necessary closures go smoothly. Advanced signing on SR 2, as well as press releases, should be used to inform the public of the planned construction dates and times. These press releases by DelDOT should target local schools, churches, law enforcement agencies, emergency services, utility companies, major employers, major commercial businesses, and New Castle County. Press releases and messages should emphasize safety throughout the work zone. Additionally, the following strategies will be used to notify the public of the lane closures and shifts:

- Portable Changeable Message Signs (PCMS) shall be installed 10 days in advance of construction and remain in place for 5 days after the start of construction.
- DelDOT email alerts

It is noted that a Night Work Survey has been conducted for this project. Based on the results of the survey, night work is permitted for this project.

Work Zone Impacts Management Strategies

Verification of Work Zone Setup

When lane, shoulder, or full road closures are implemented, the contractor's ATSSA-certified supervisor, DelDOT Construction, and DelDOT's Safety Officer should review the maintenance of traffic setup to confirm that it is in compliance with the TCP, MUTCD Chapter 6, and DE MUTCD: Part 6.

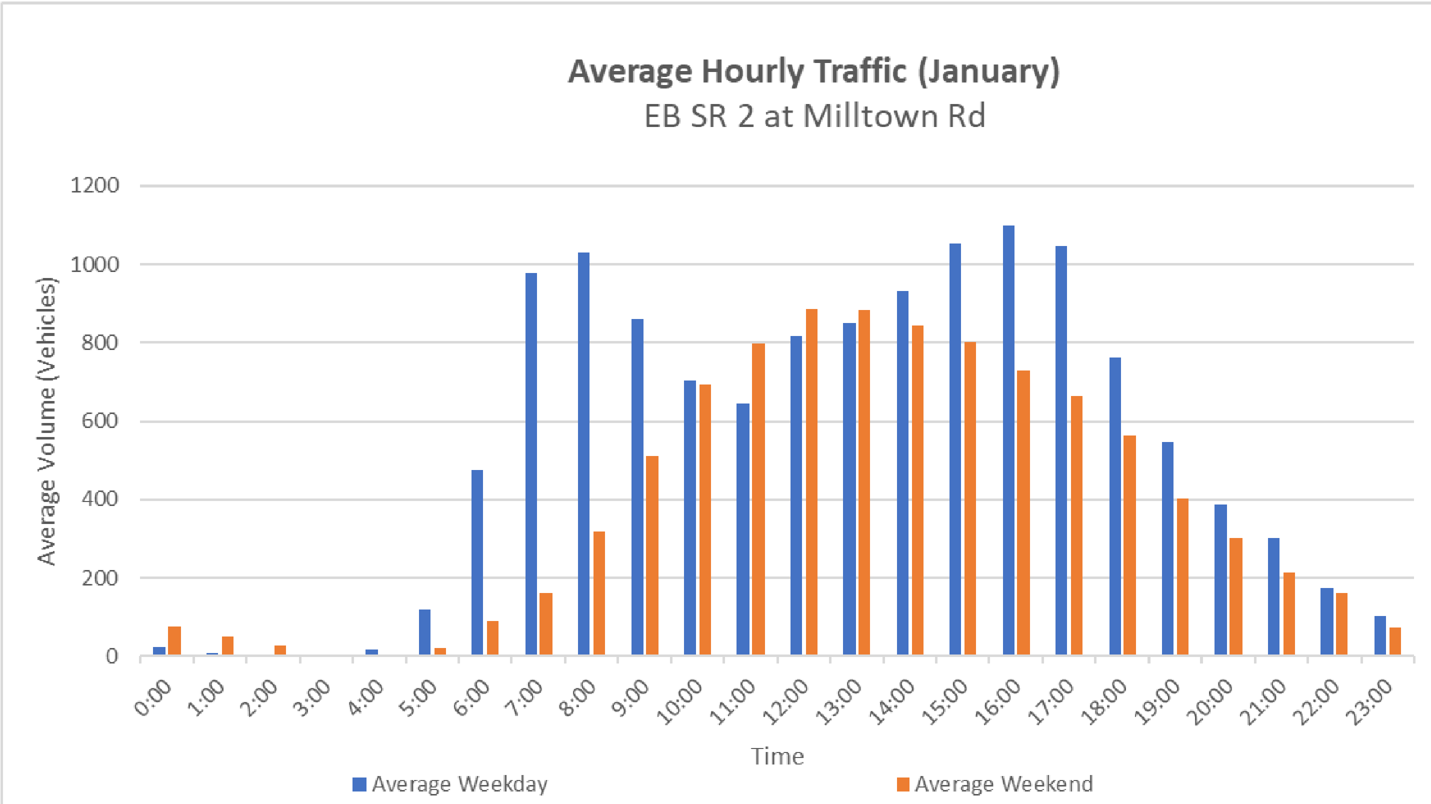
Monitoring of TMP Performance

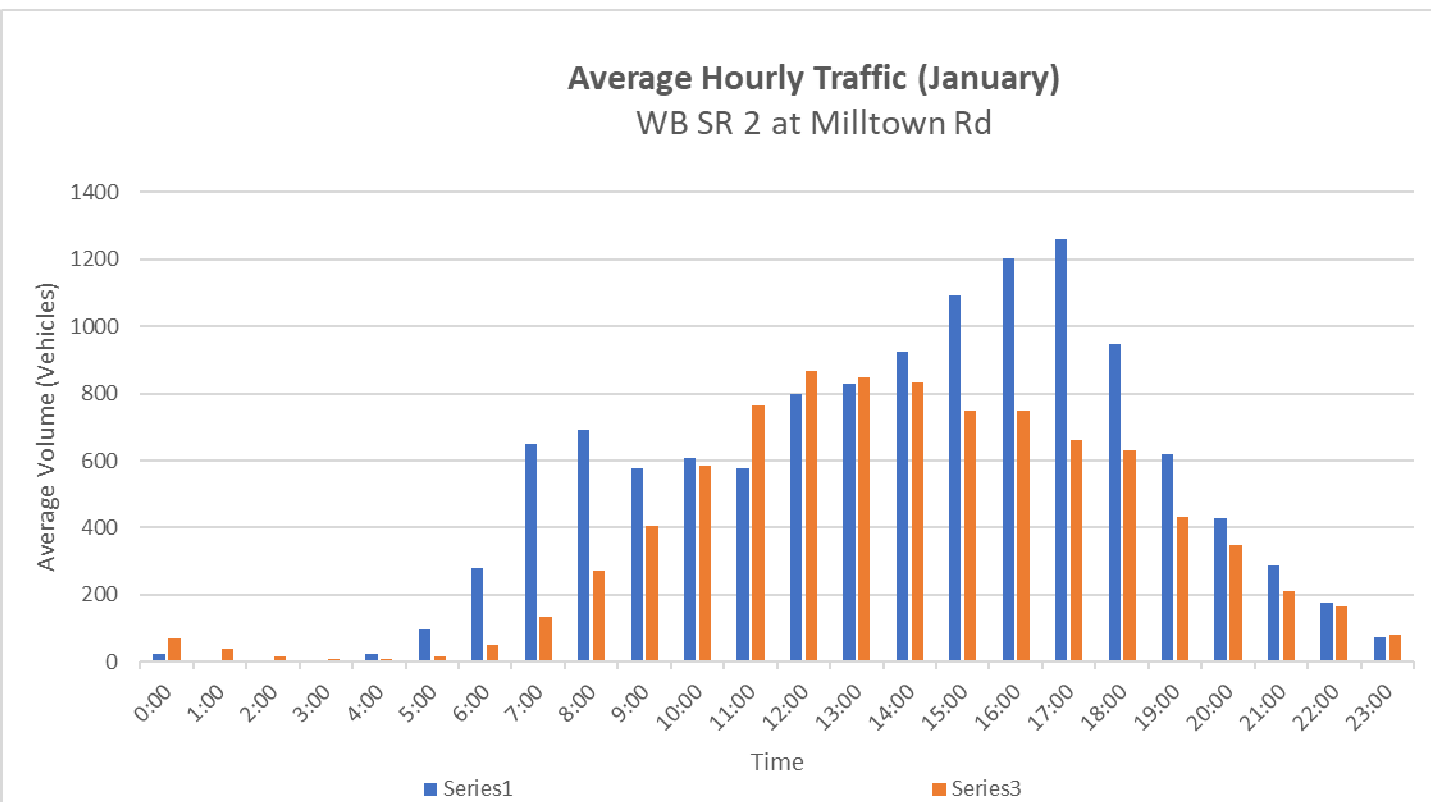
DelDOT should monitor queues and delays approaching the work zone and identify the need for modifications to the traffic control. Routine work zone reviews should be performed by the contractor's ATSSA-certified supervisor, DelDOT Construction, and DelDOT's Safety Officer throughout the duration of the project to ensure that traffic control devices are maintained in accordance with the DE MUTCD: Part 6 and the TCP.

Attachment A

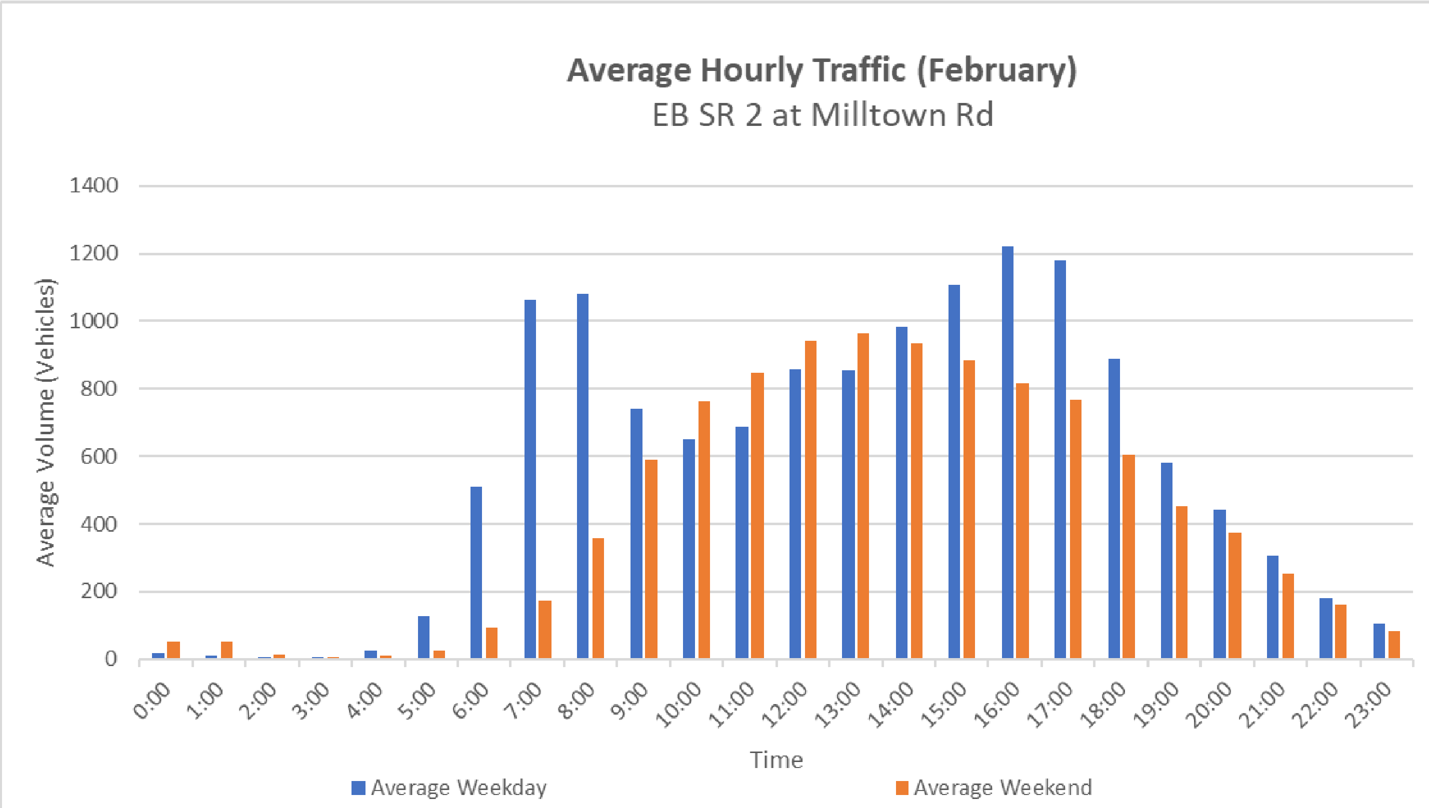
2023 Average Hourly Traffic Volumes Graphs

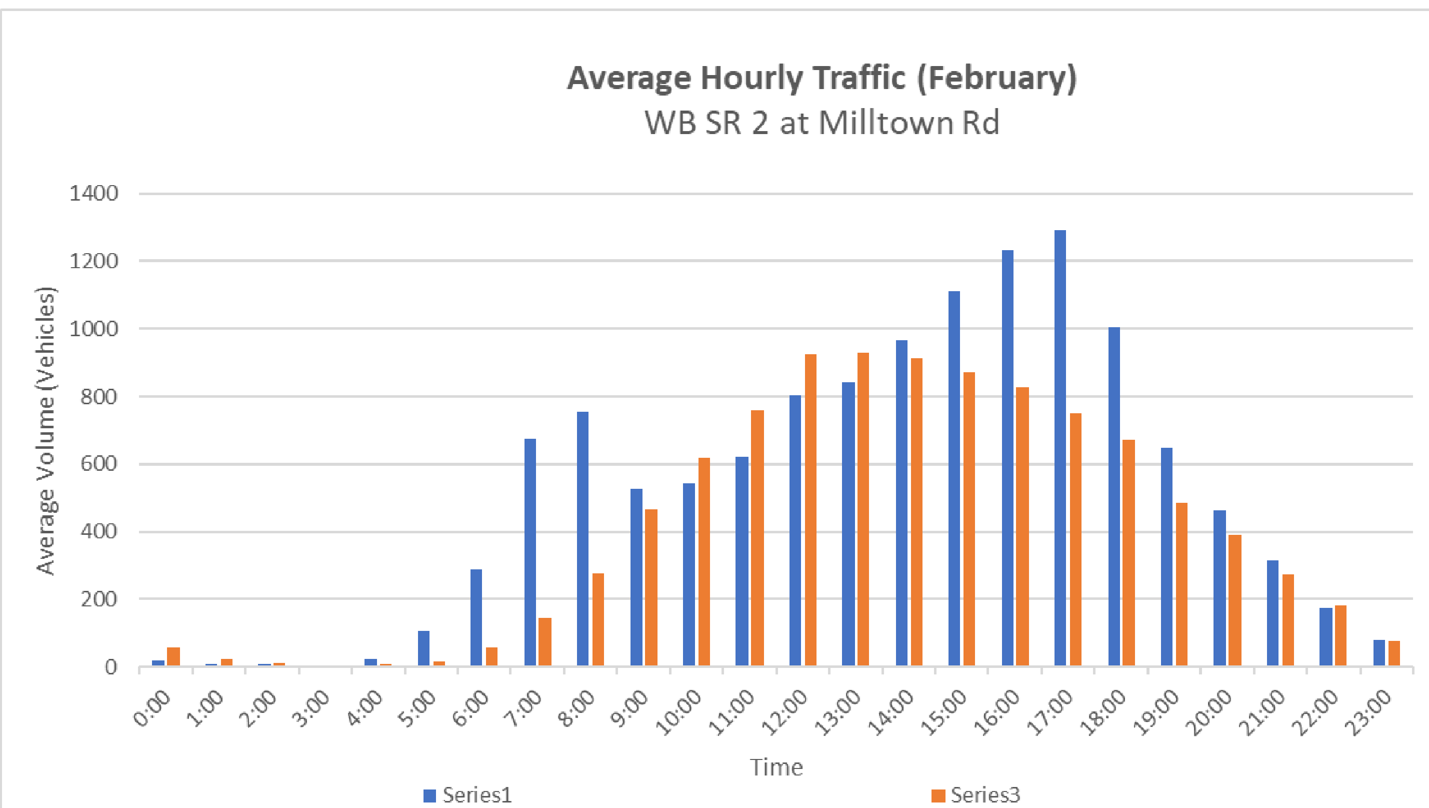
SR 2 @ Milltown Road



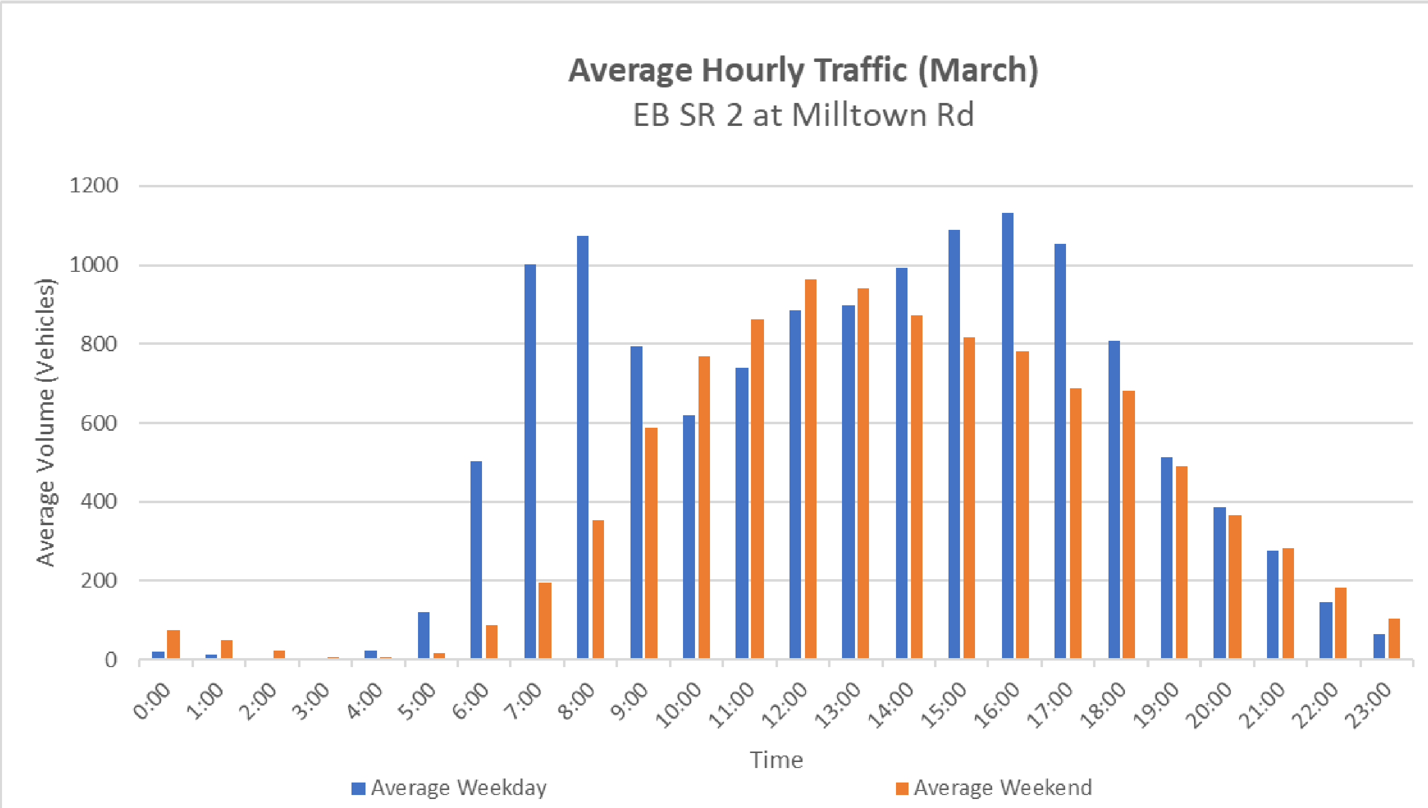


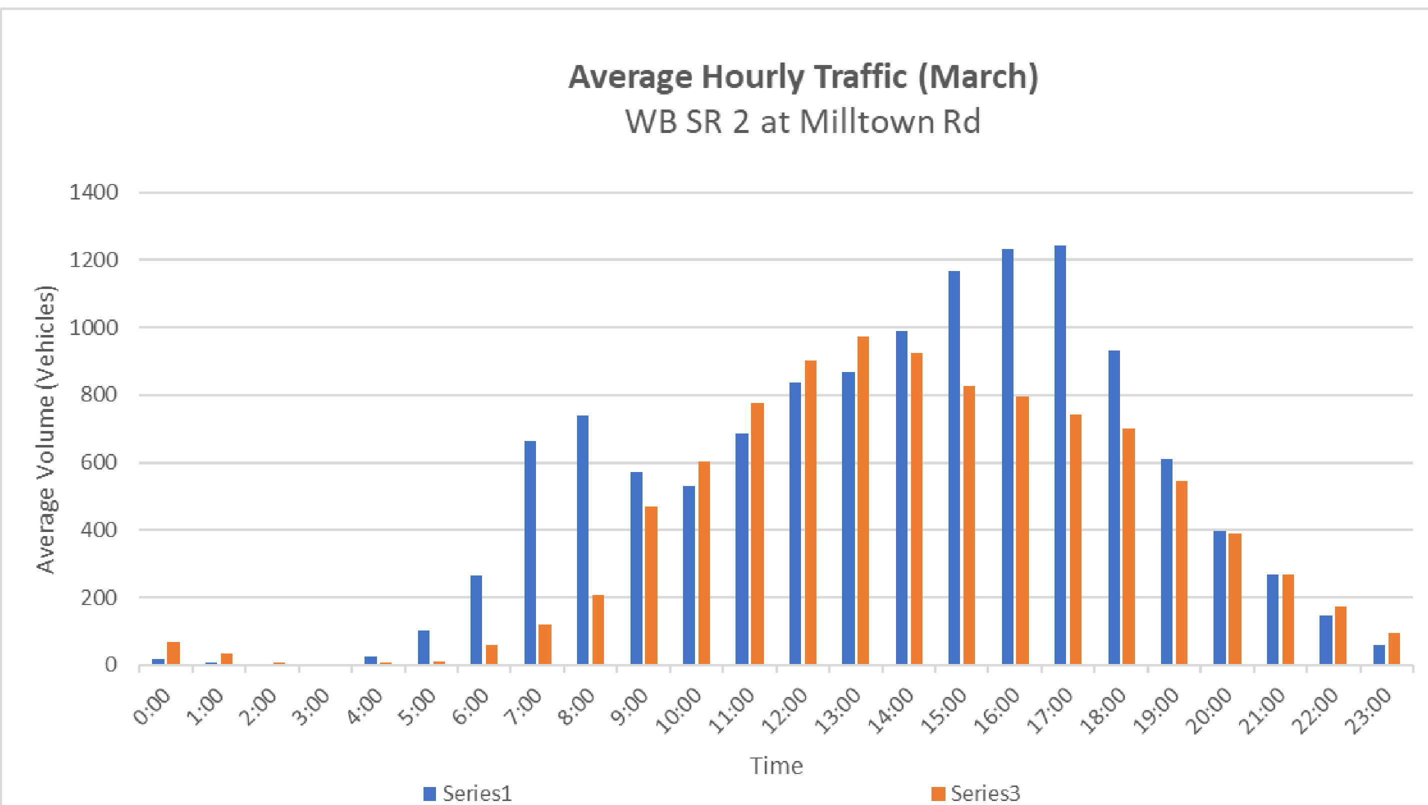
SR 2 @ Milltown Road



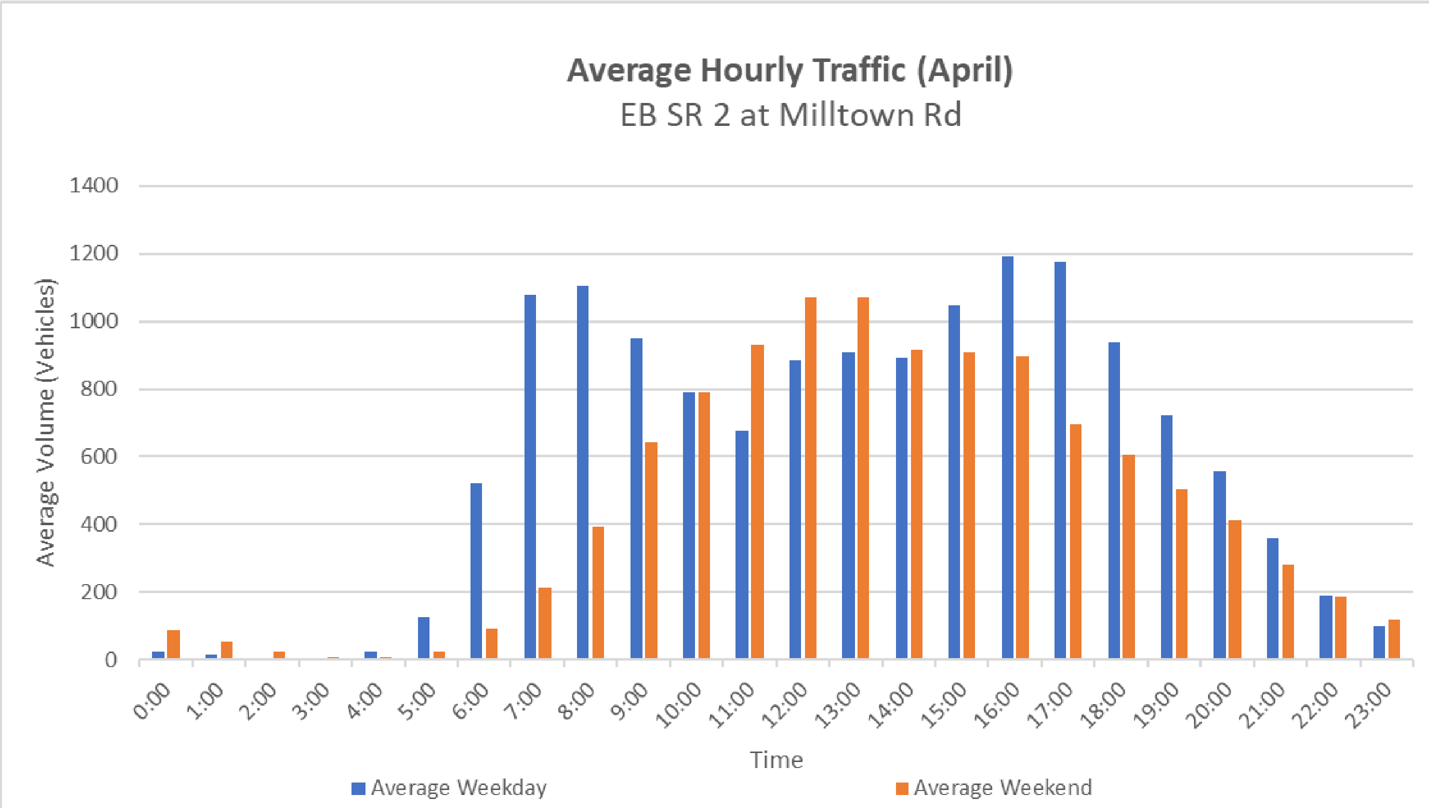


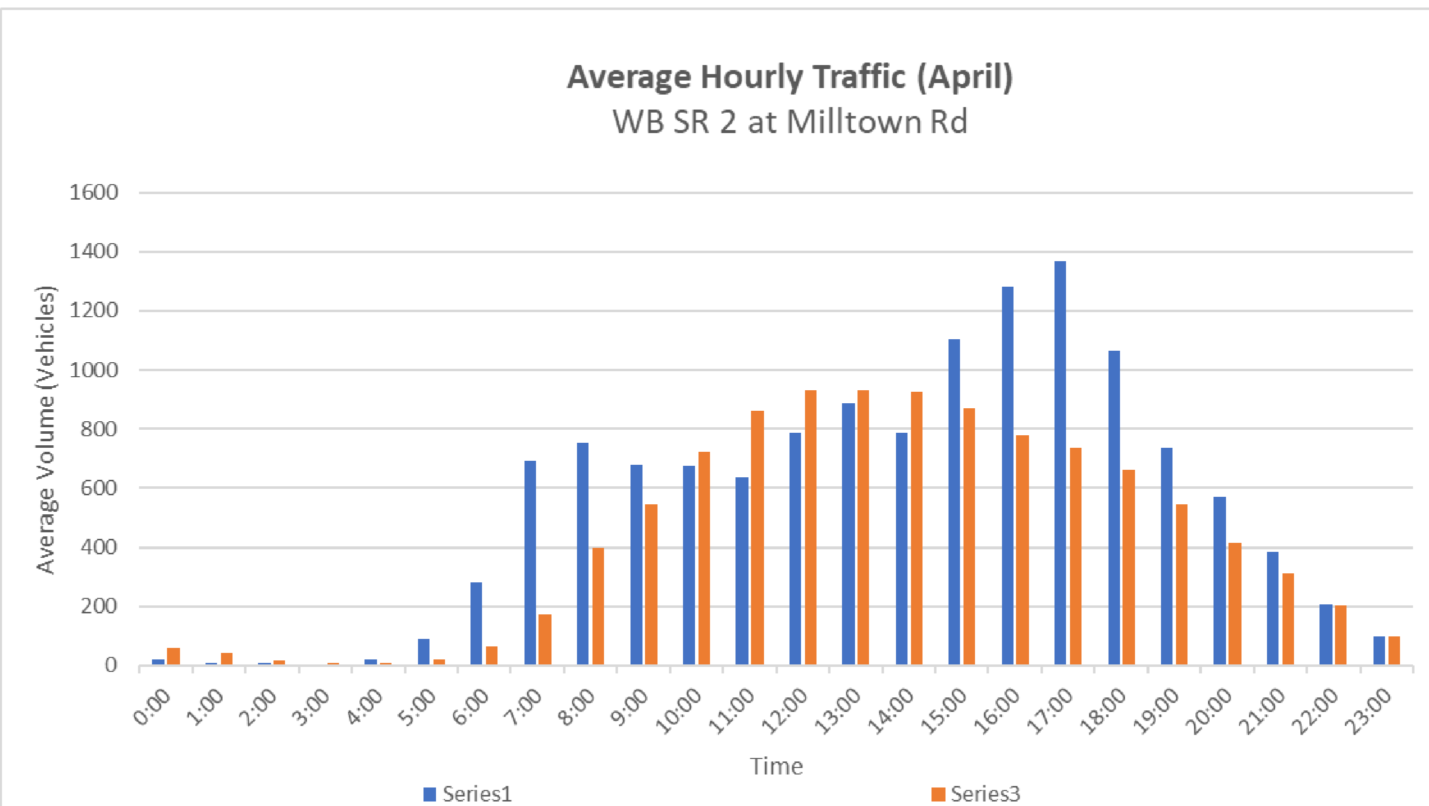
SR 2 @ Milltown Road





SR 2 @ Milltown Road





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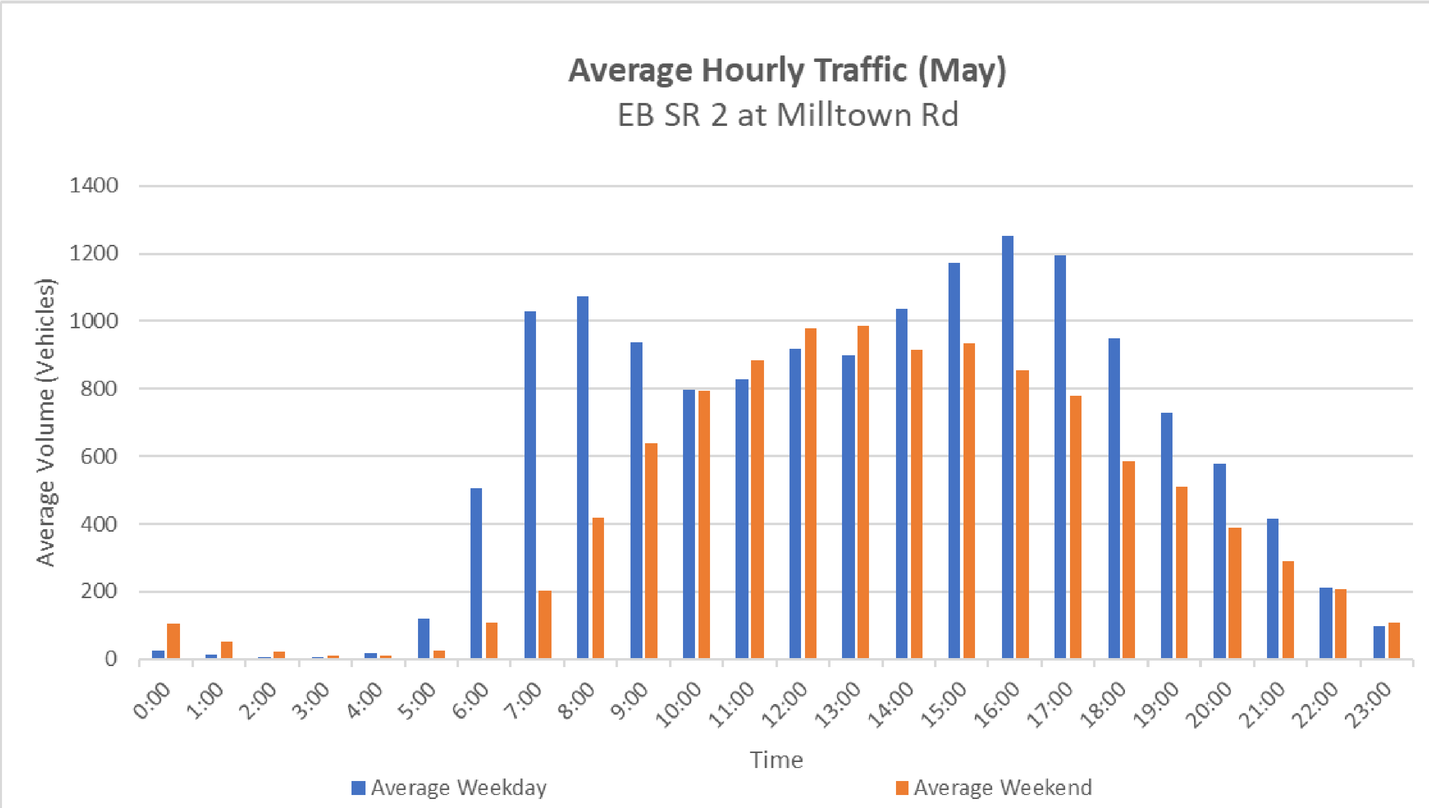
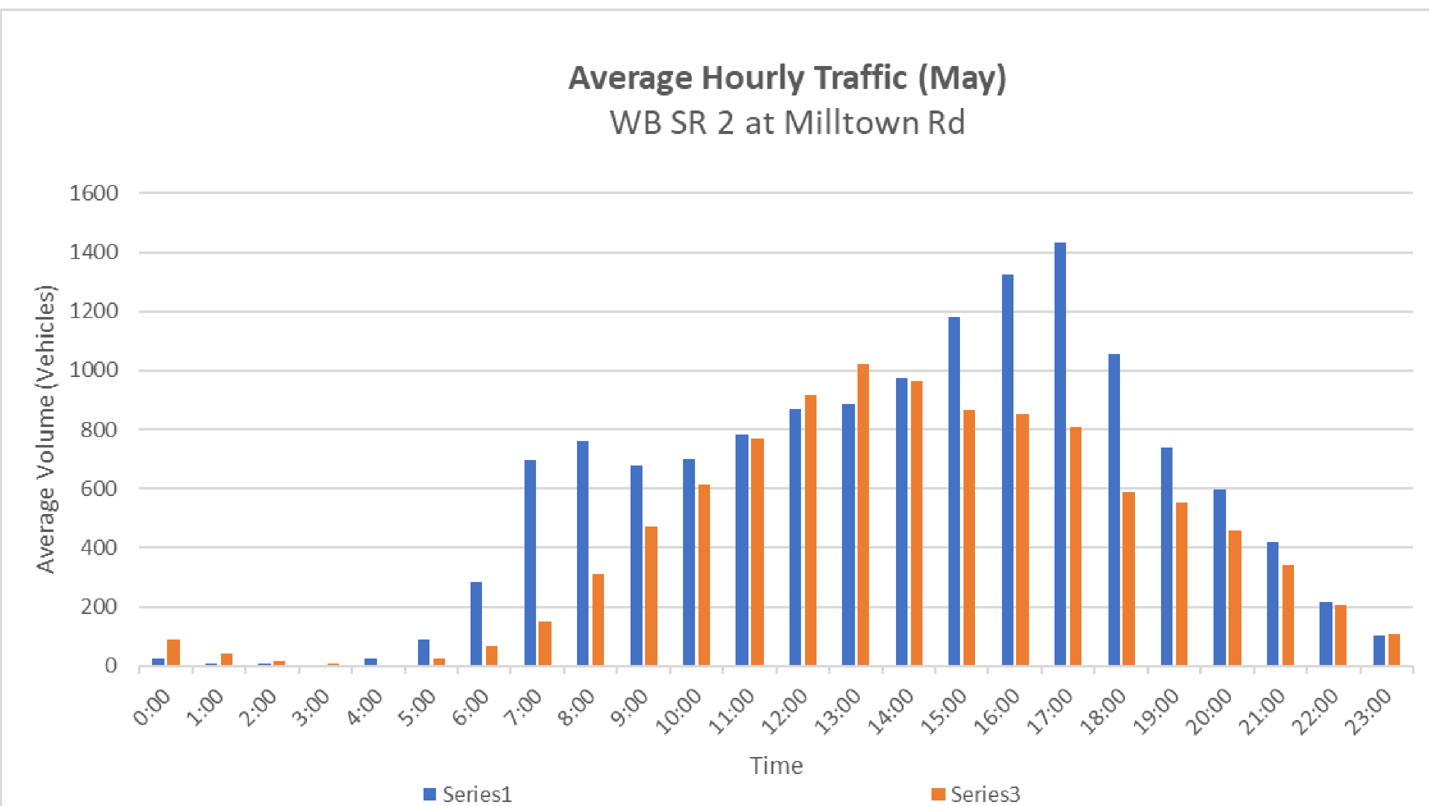
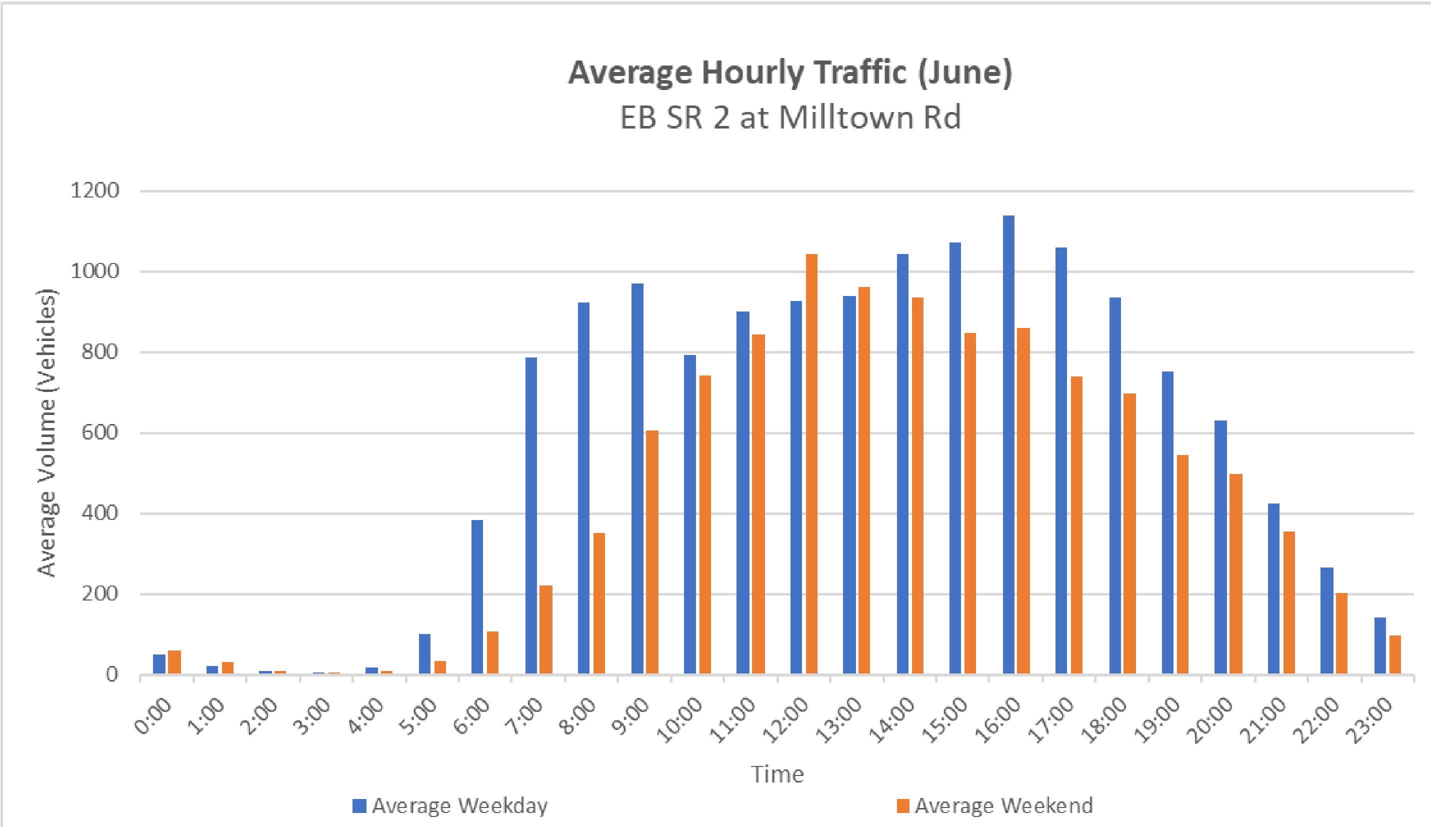
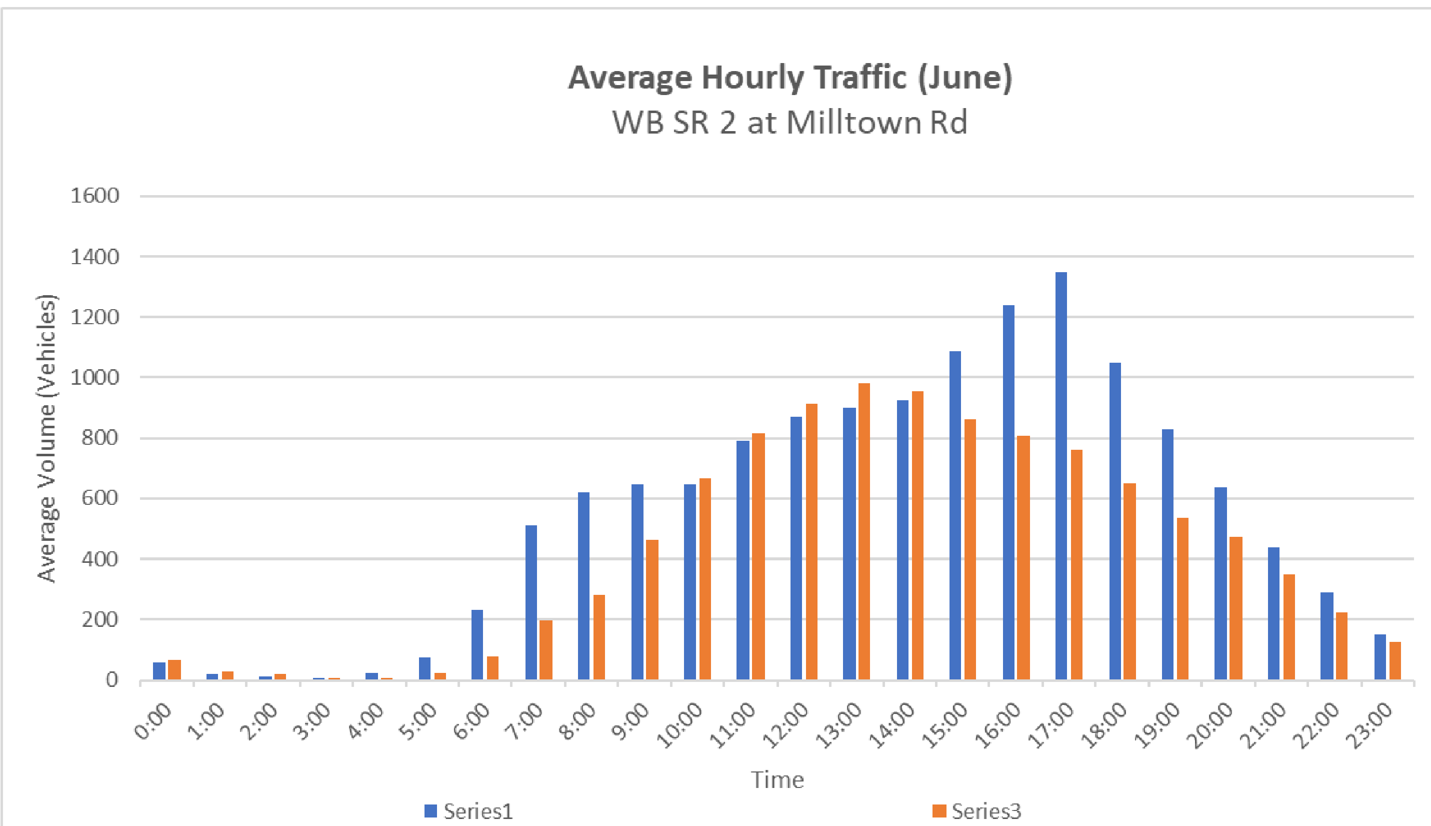


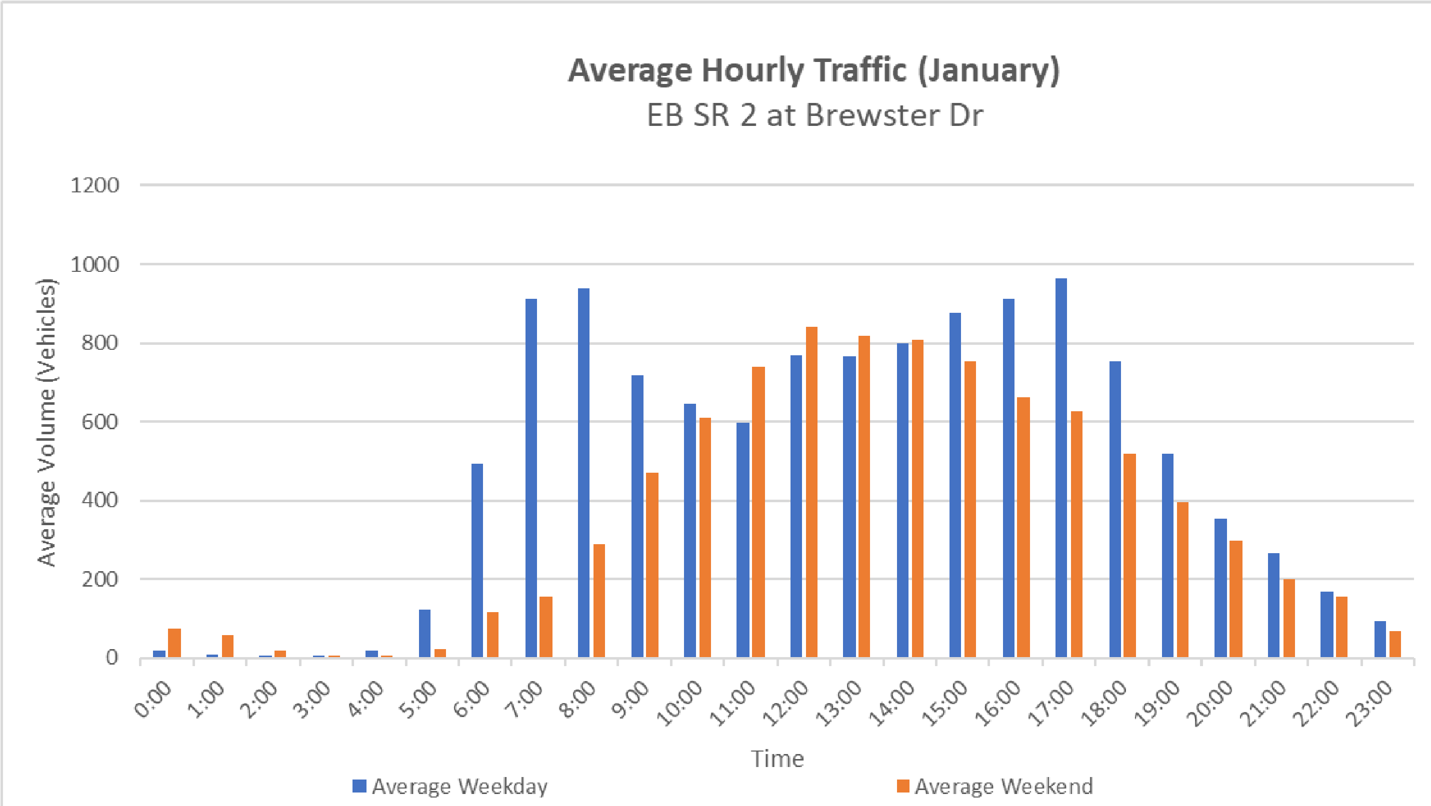


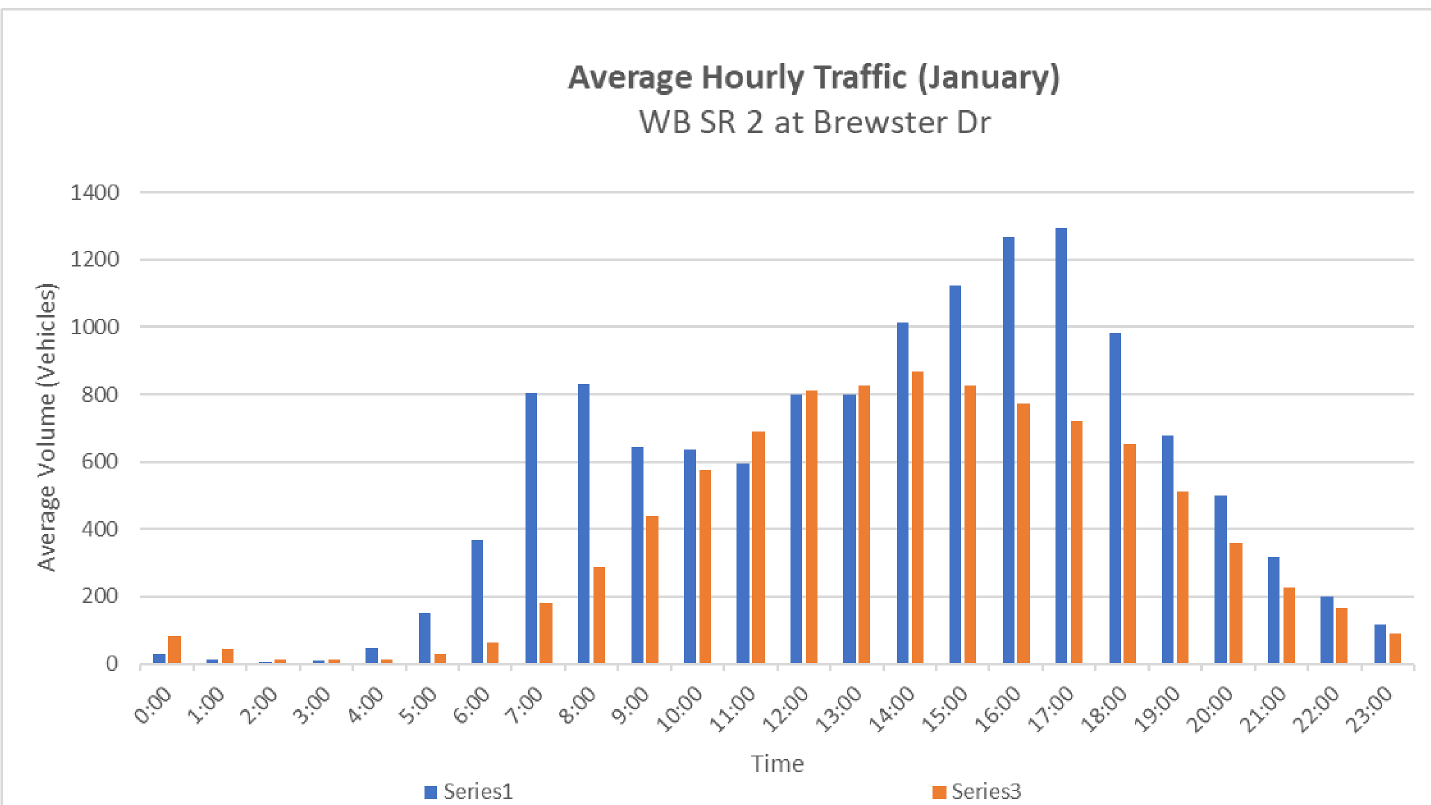
SR 2 @ Milltown Road





SR 2 @ Brewster Drive





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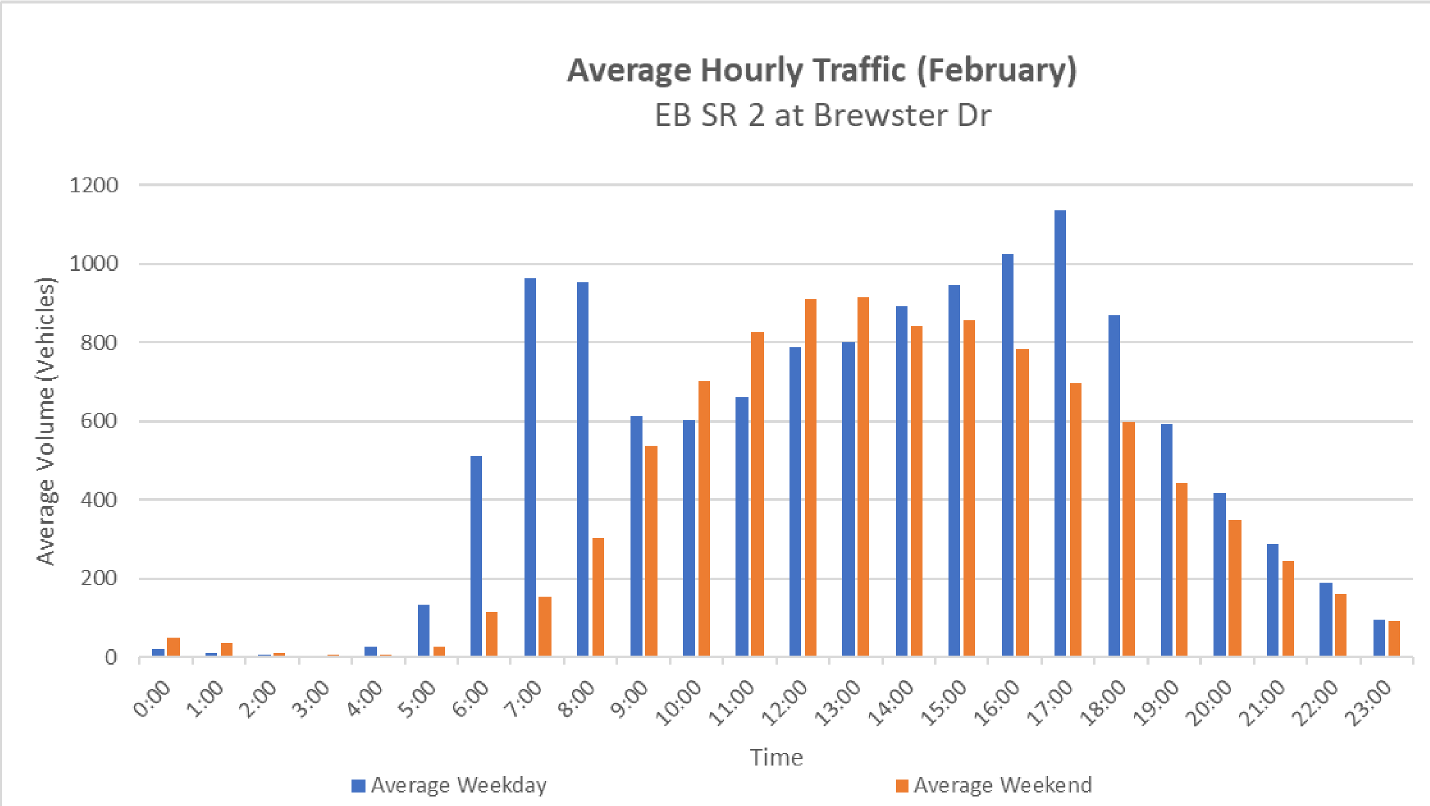

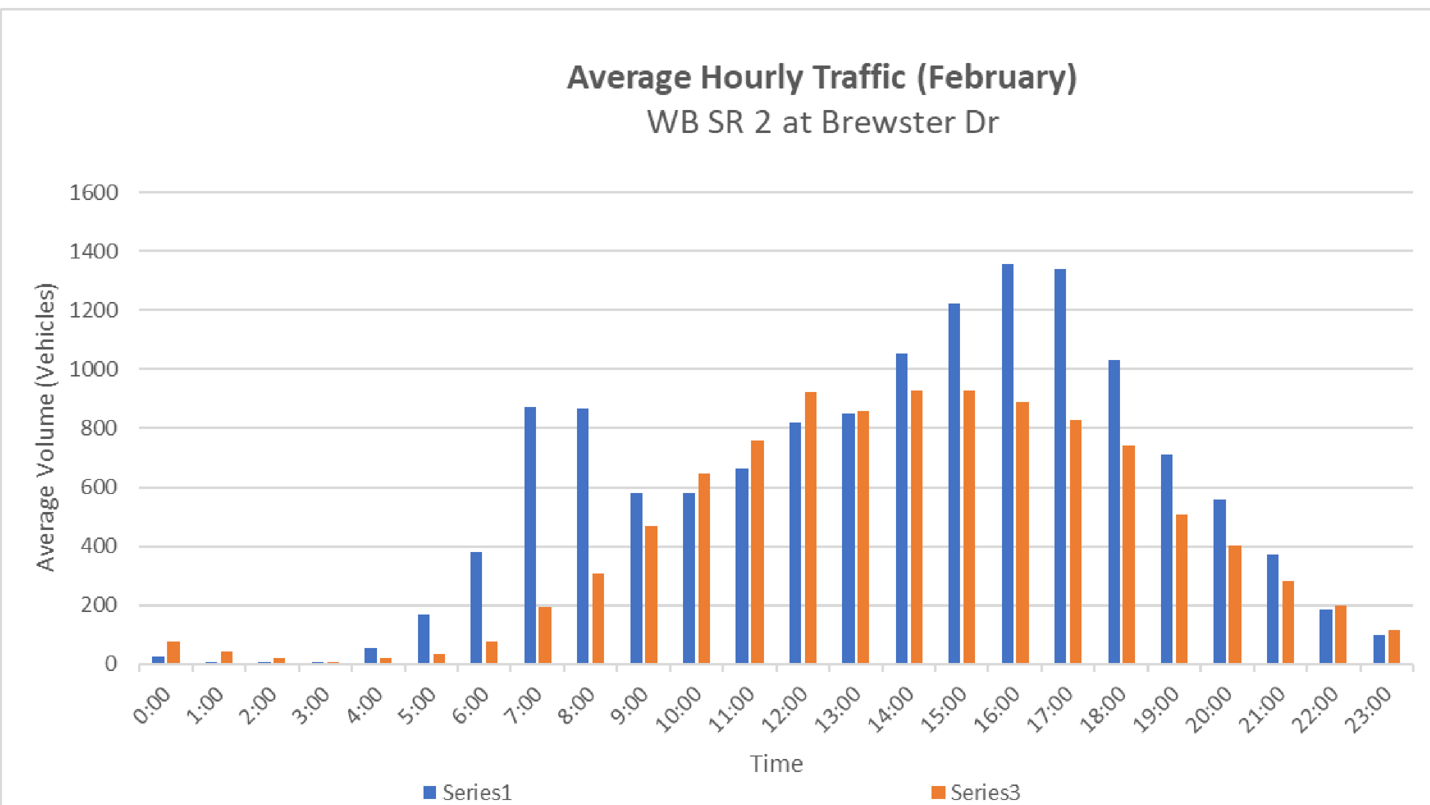

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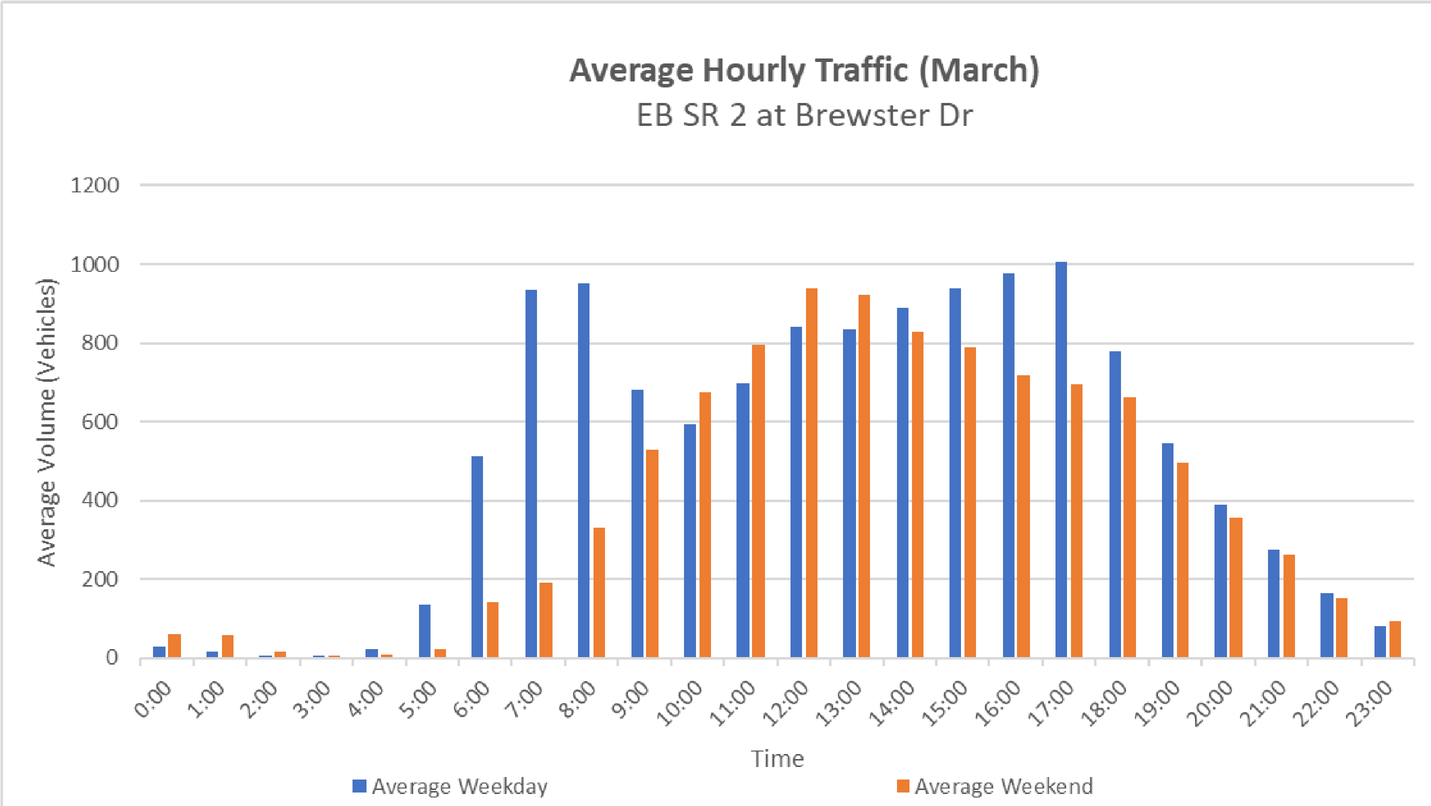

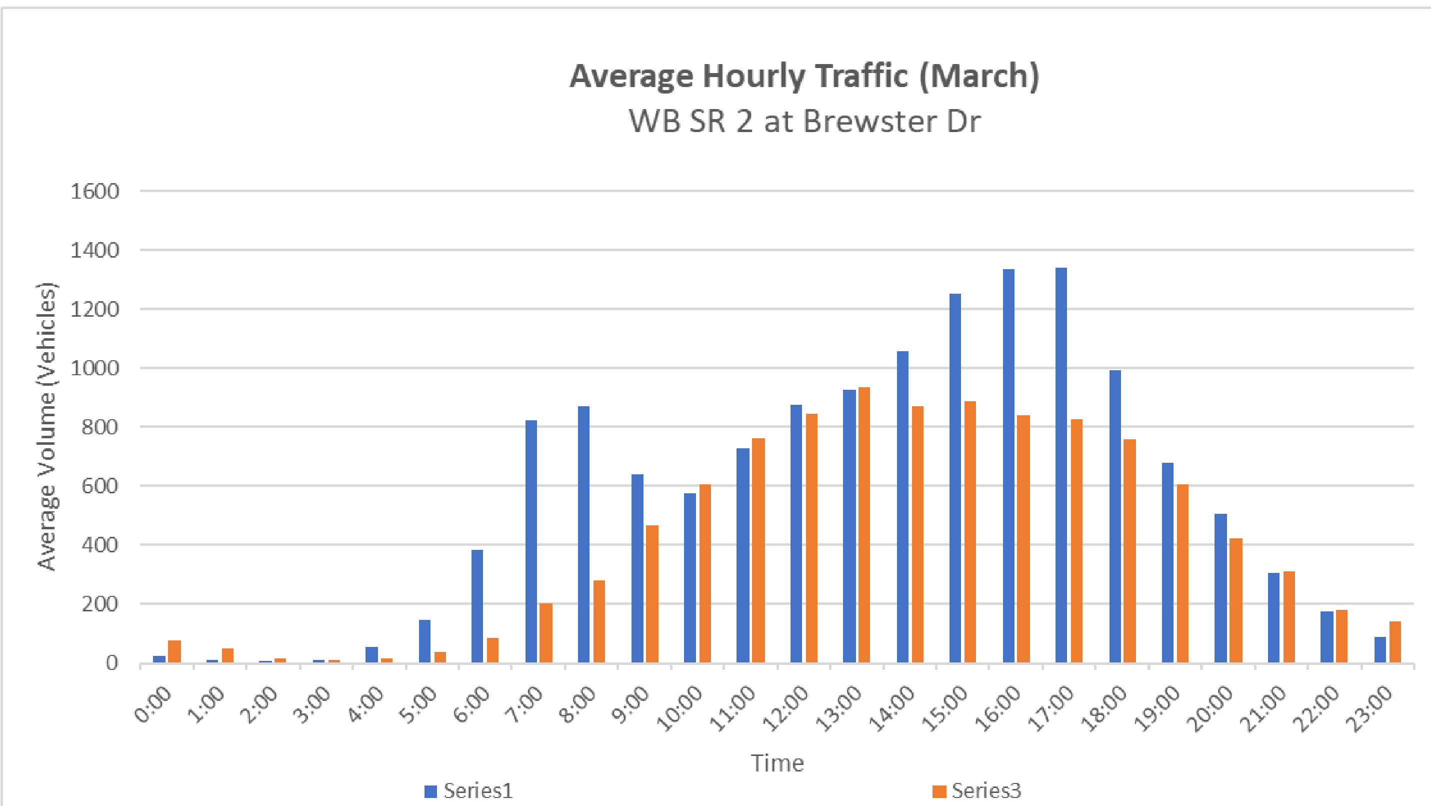

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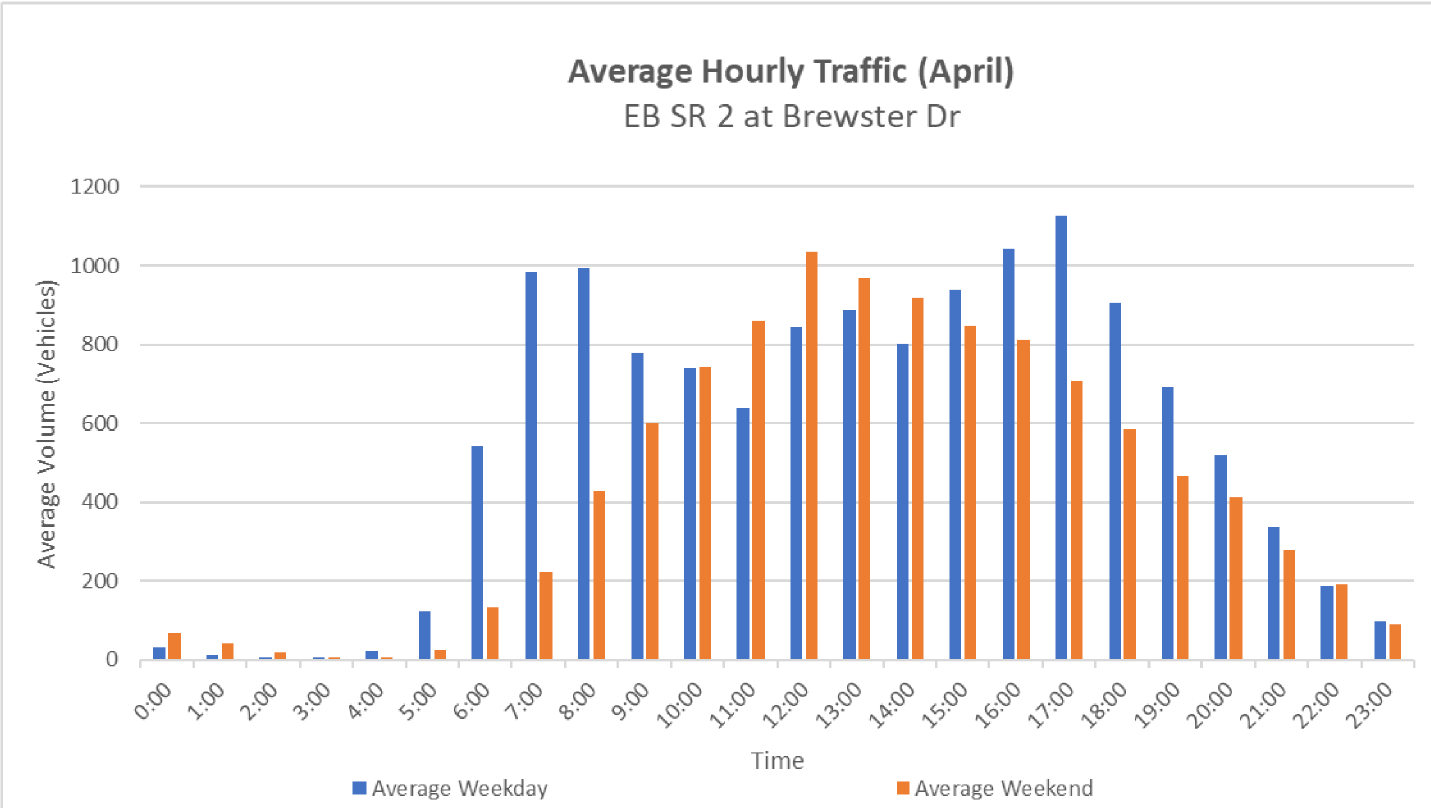

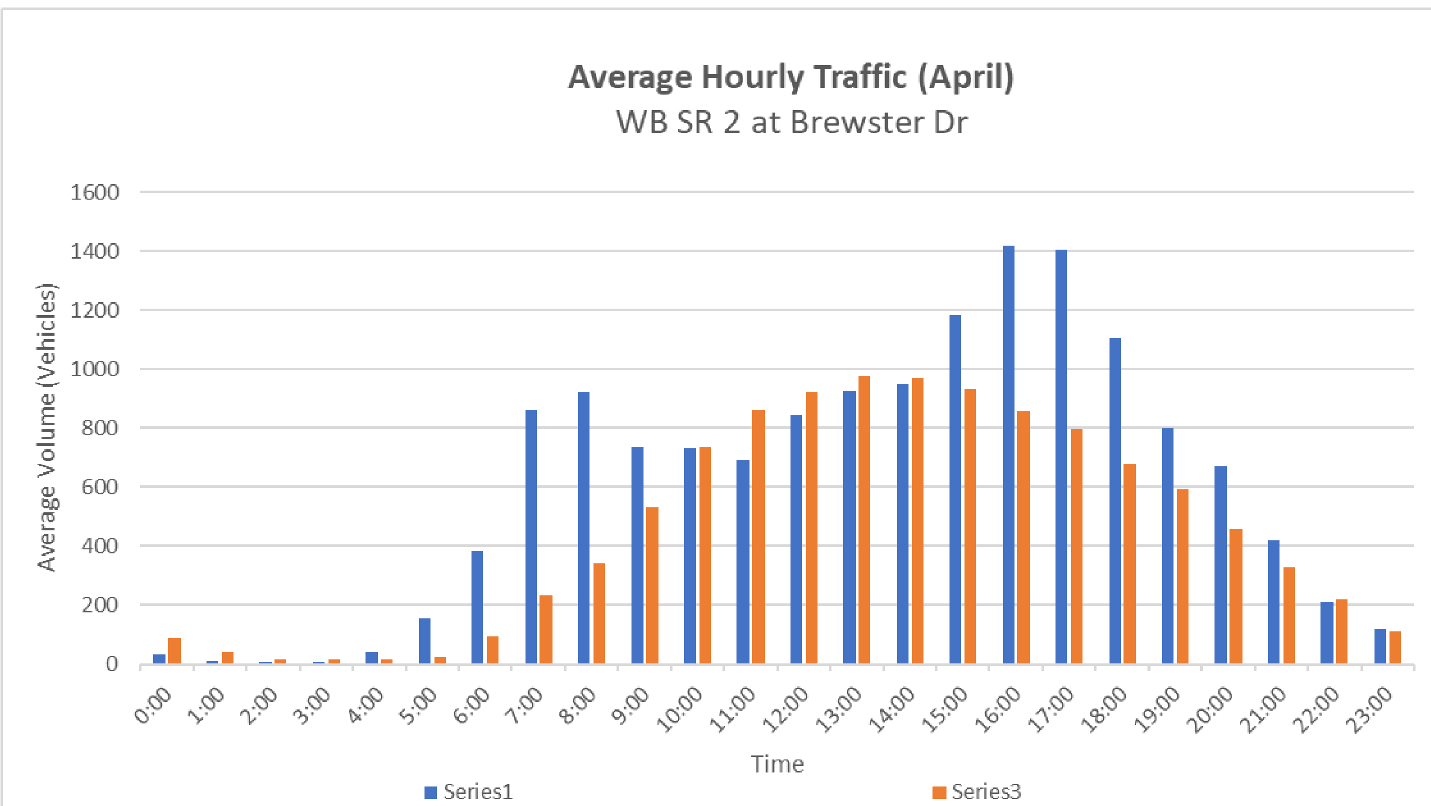

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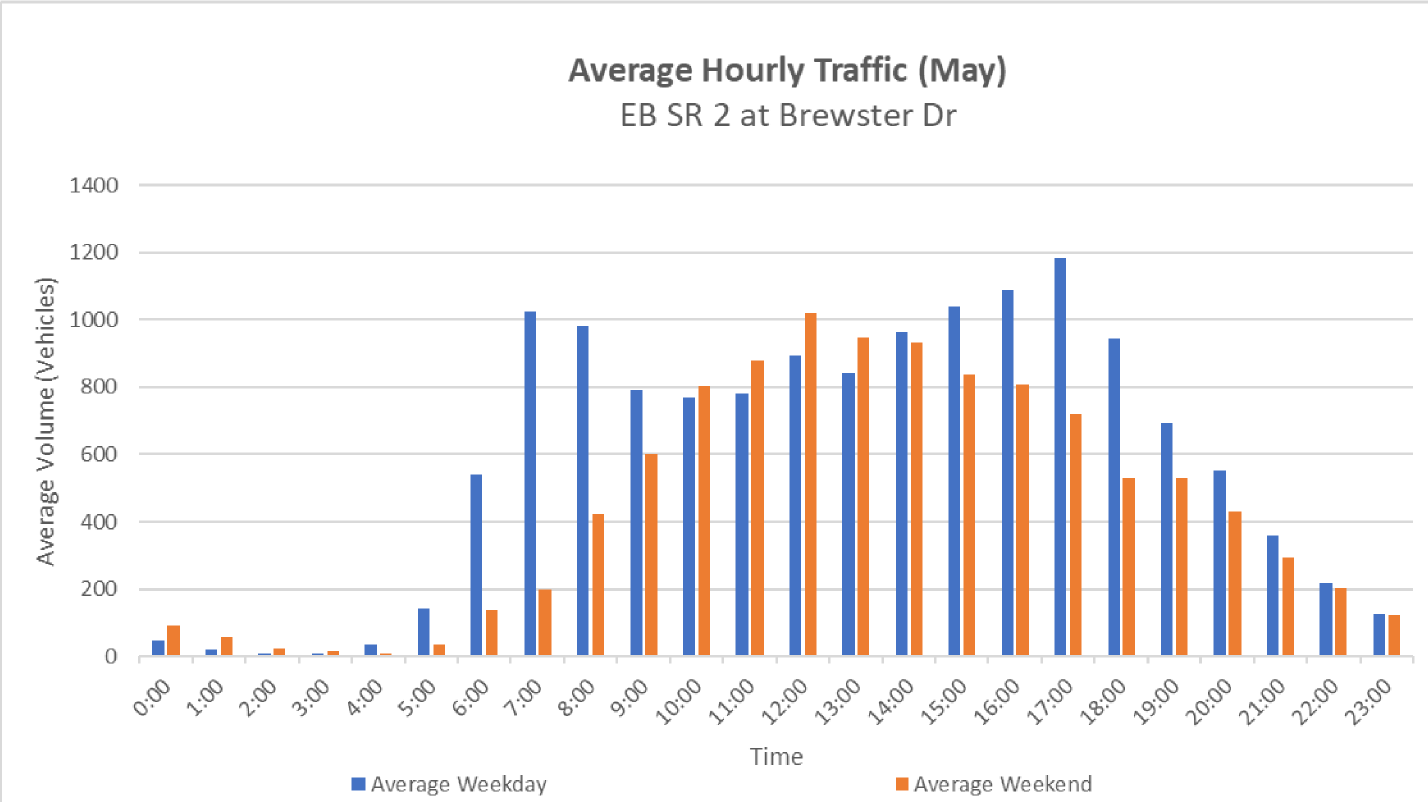
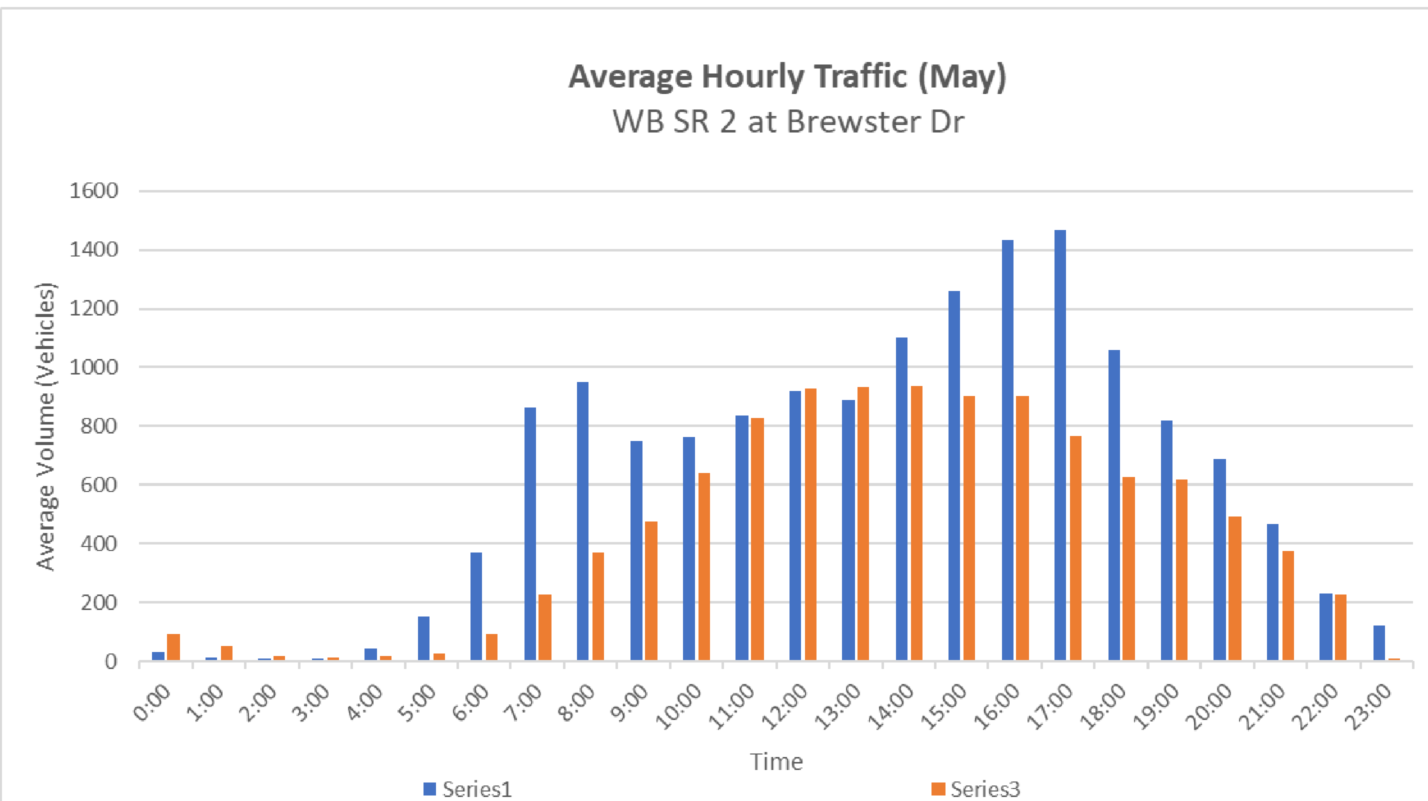
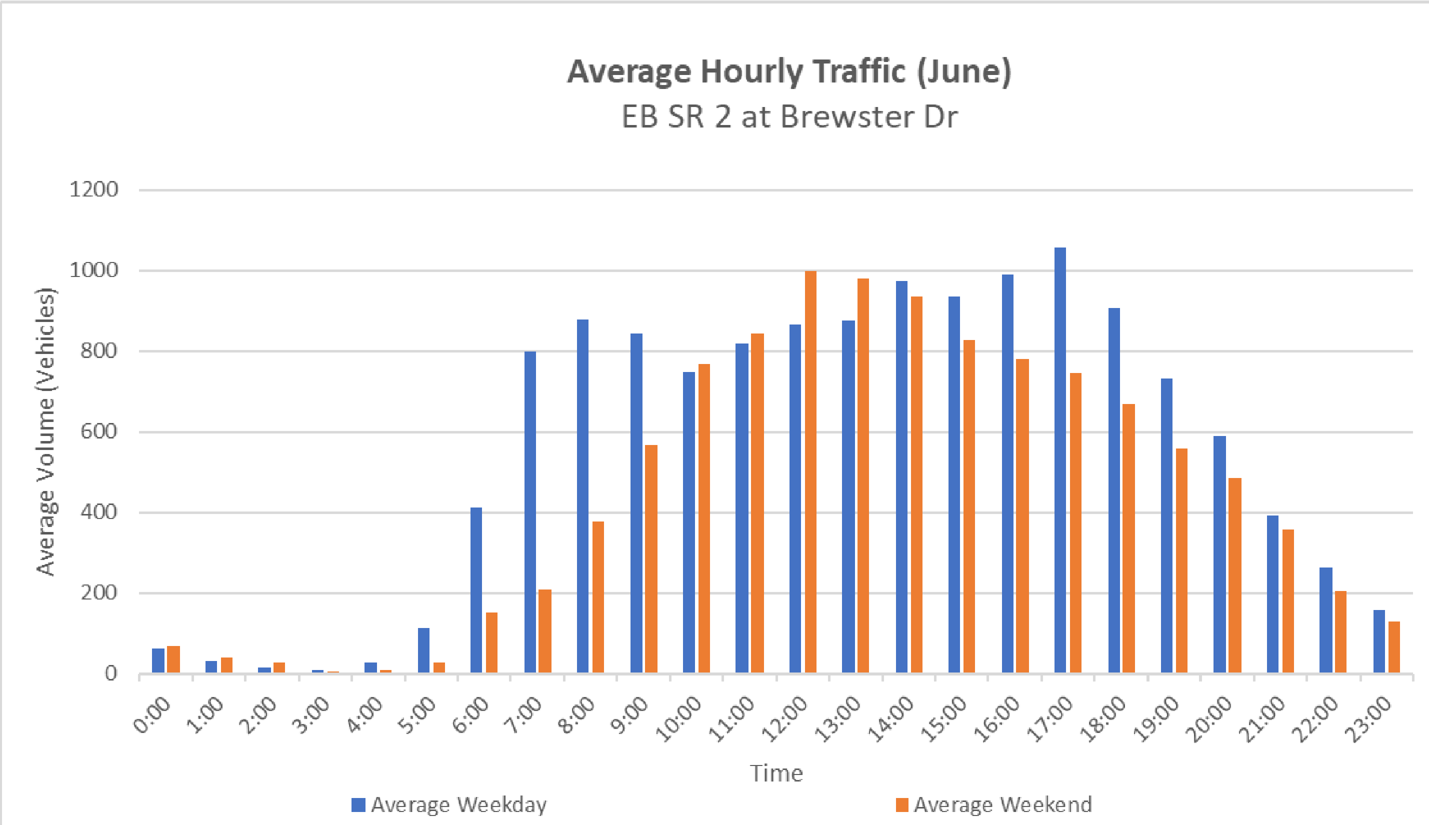
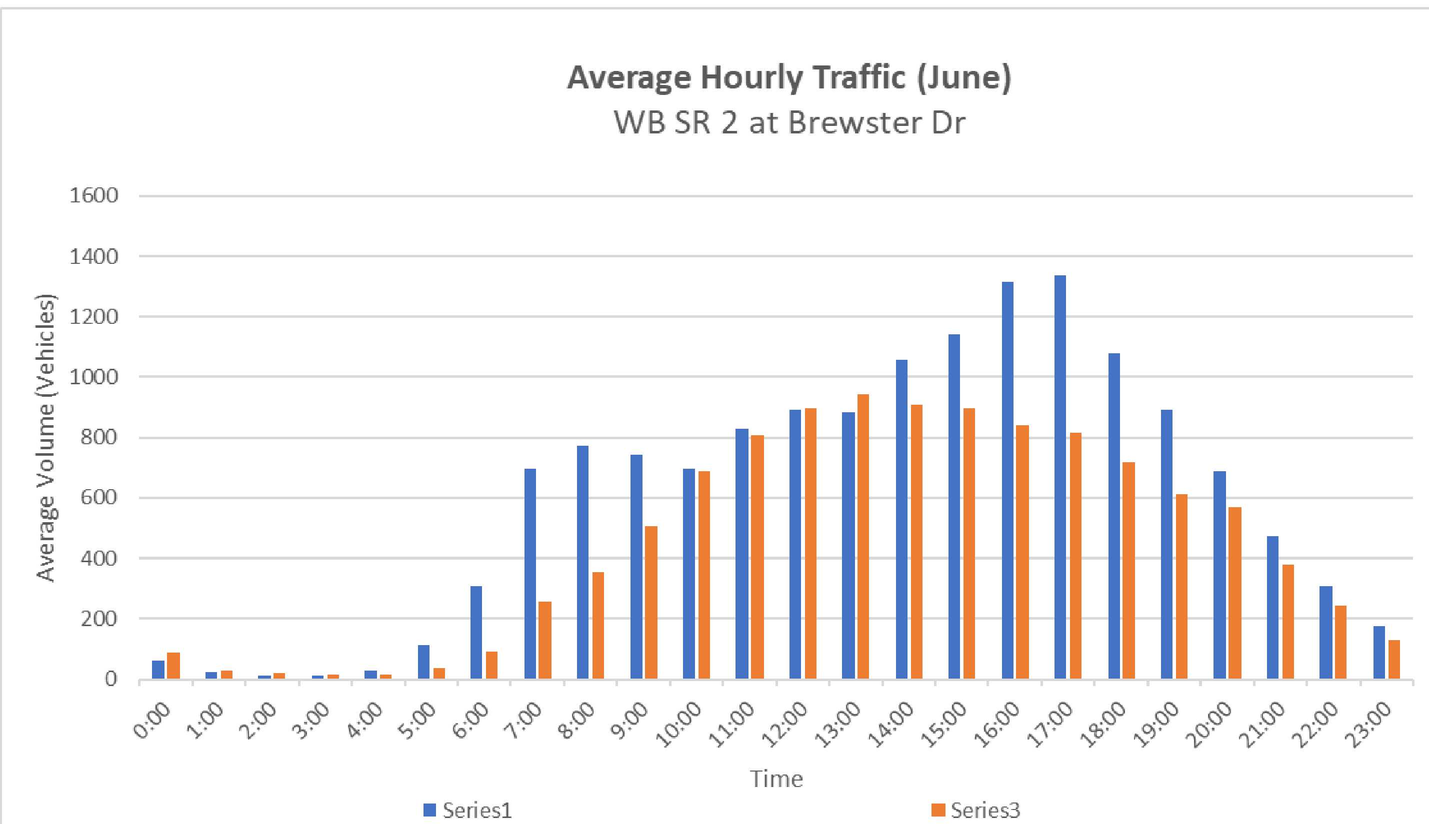


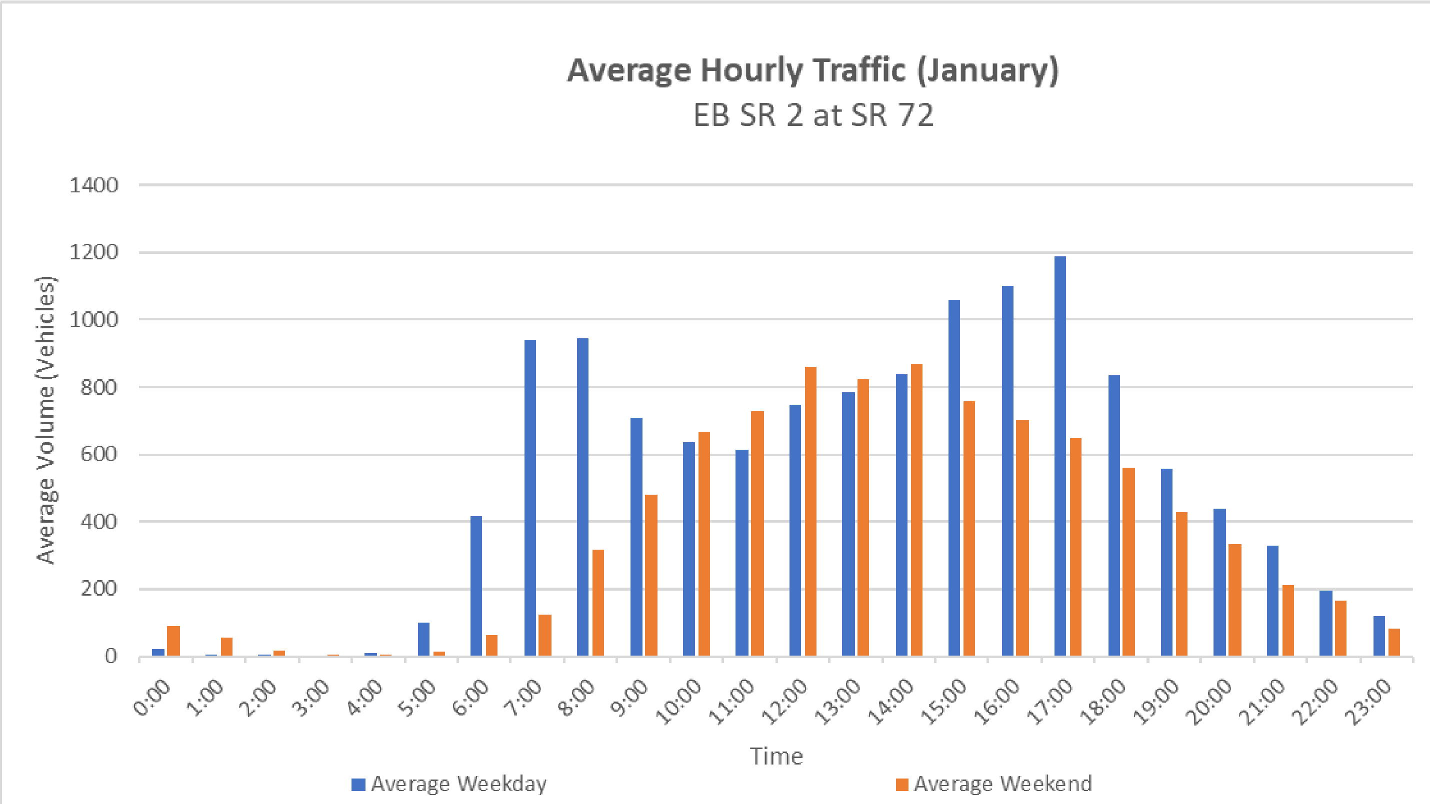


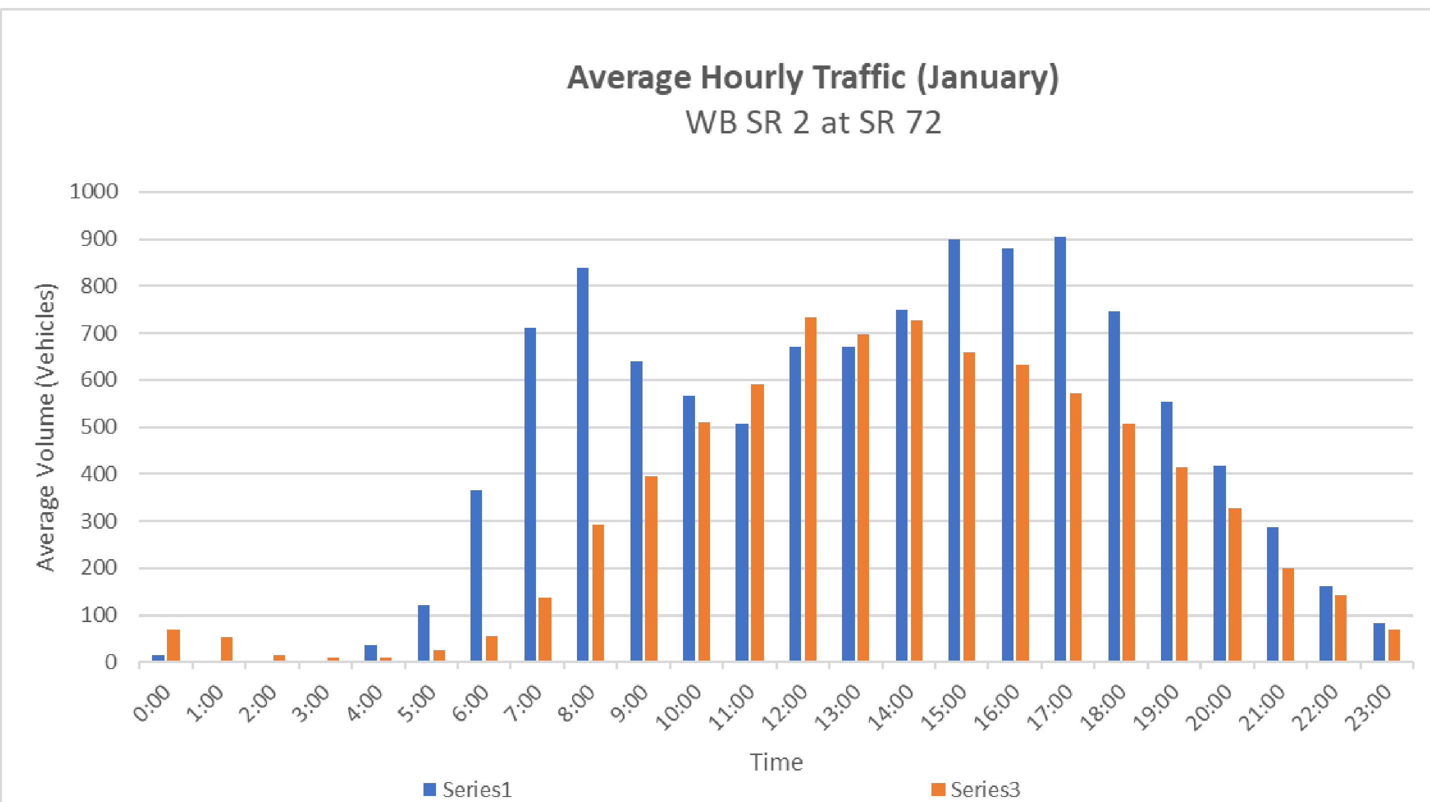
SR 2 @ Brewster Drive



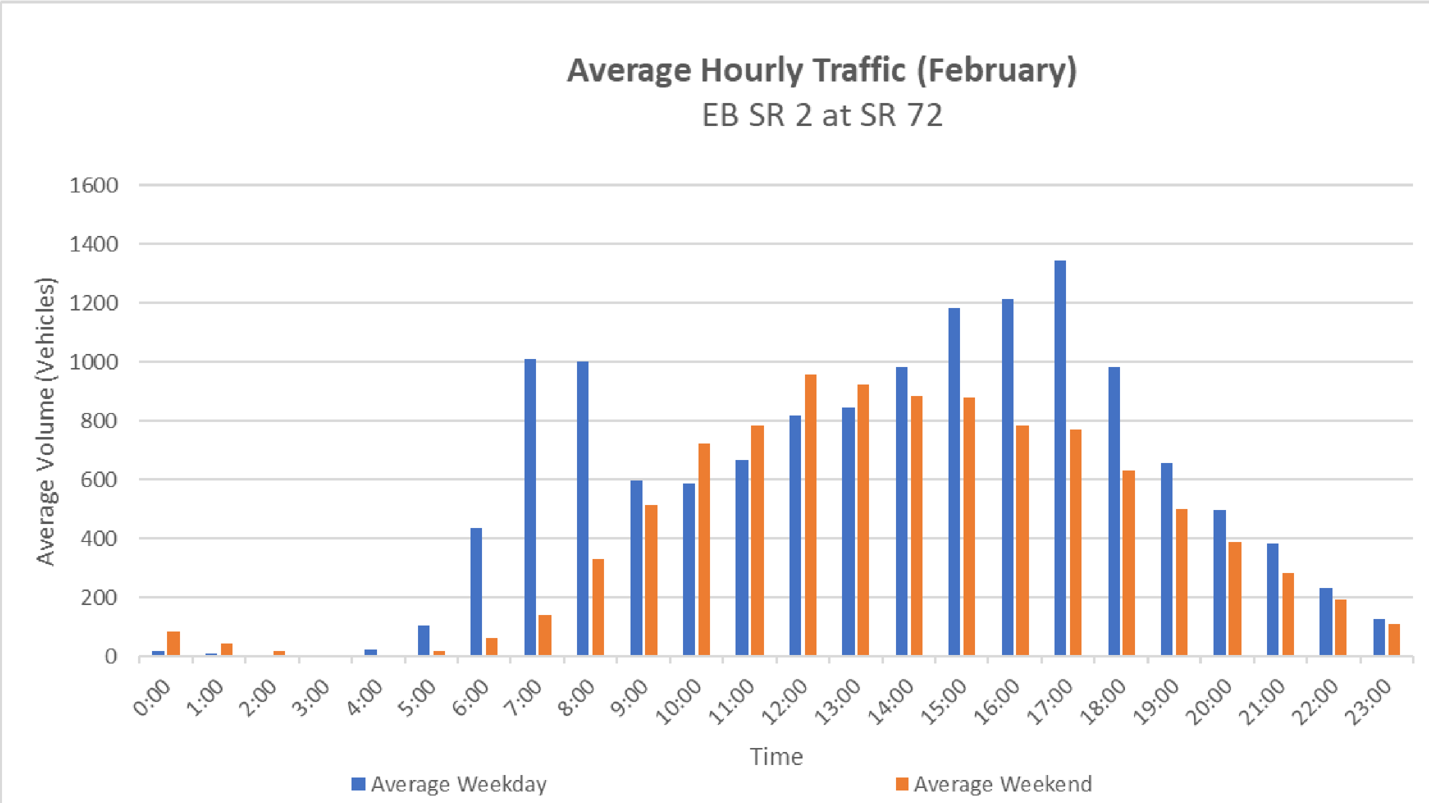


SR 2 @ SR 72

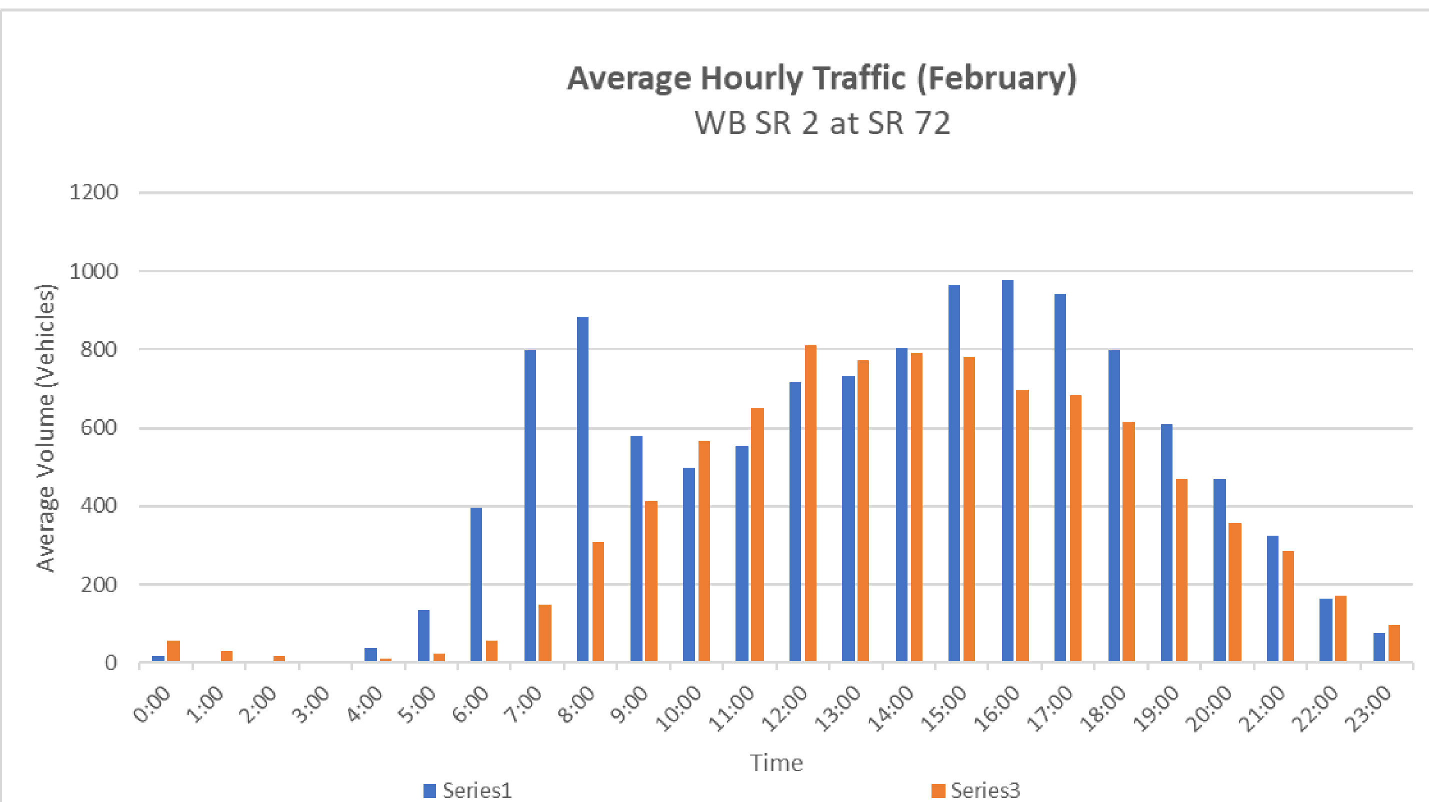

Average Hourly Traffic (January)
EB SR 2 at SR 72
Average Volume (Vehicles)
1400
1200
1000
800
600
400
200
0
0:00
1:00
2:00
3:00
4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Time
Average Weekday
Average Weekend


Average Hourly Traffic (January)
WB SR 2 at SR 72
Average Volume (Vehicles)
1000
900
800
700
600
500
400
300
200
100
0
0:00
1:00
2:00
3:00
4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Time
Series1
Series3

SR 2 @ SR 72

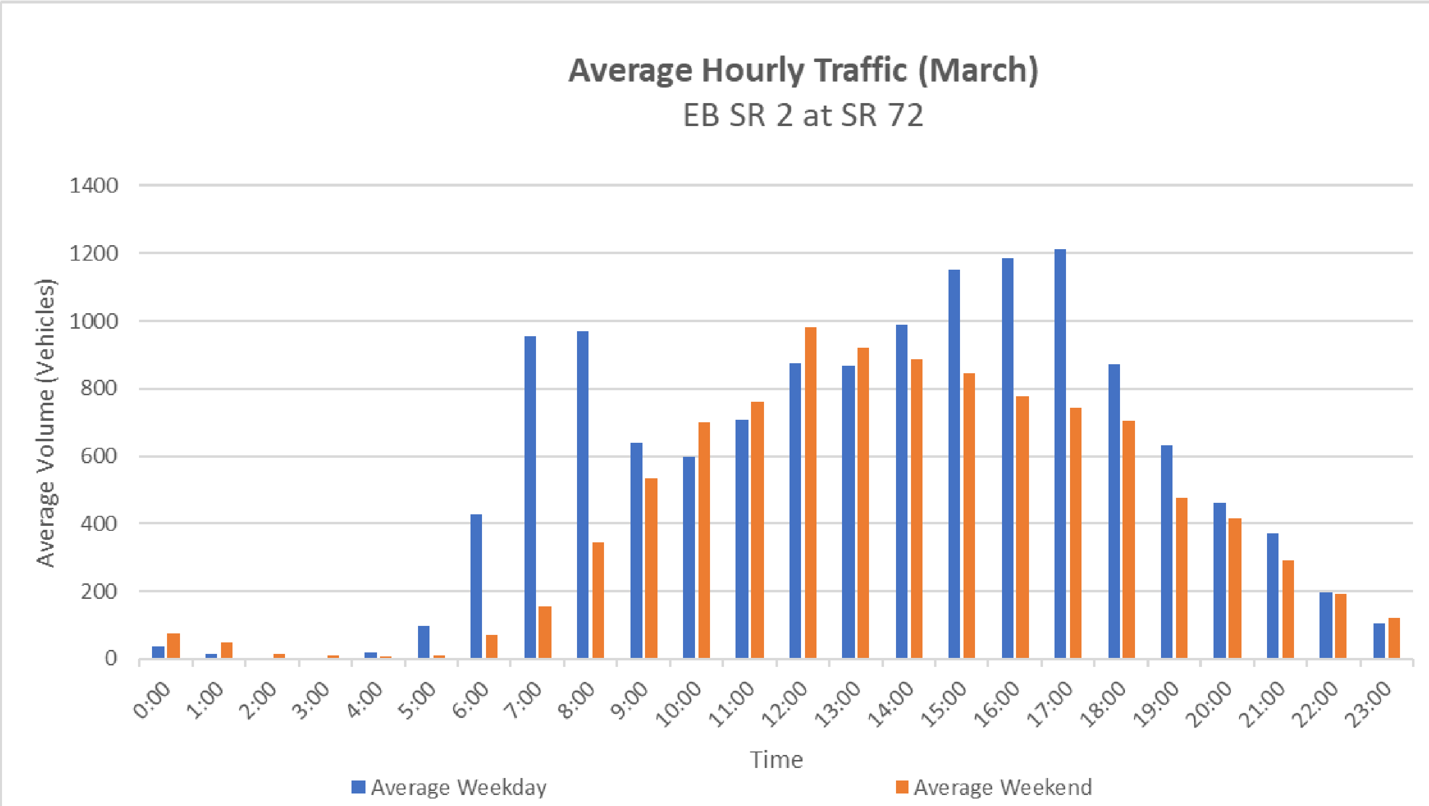


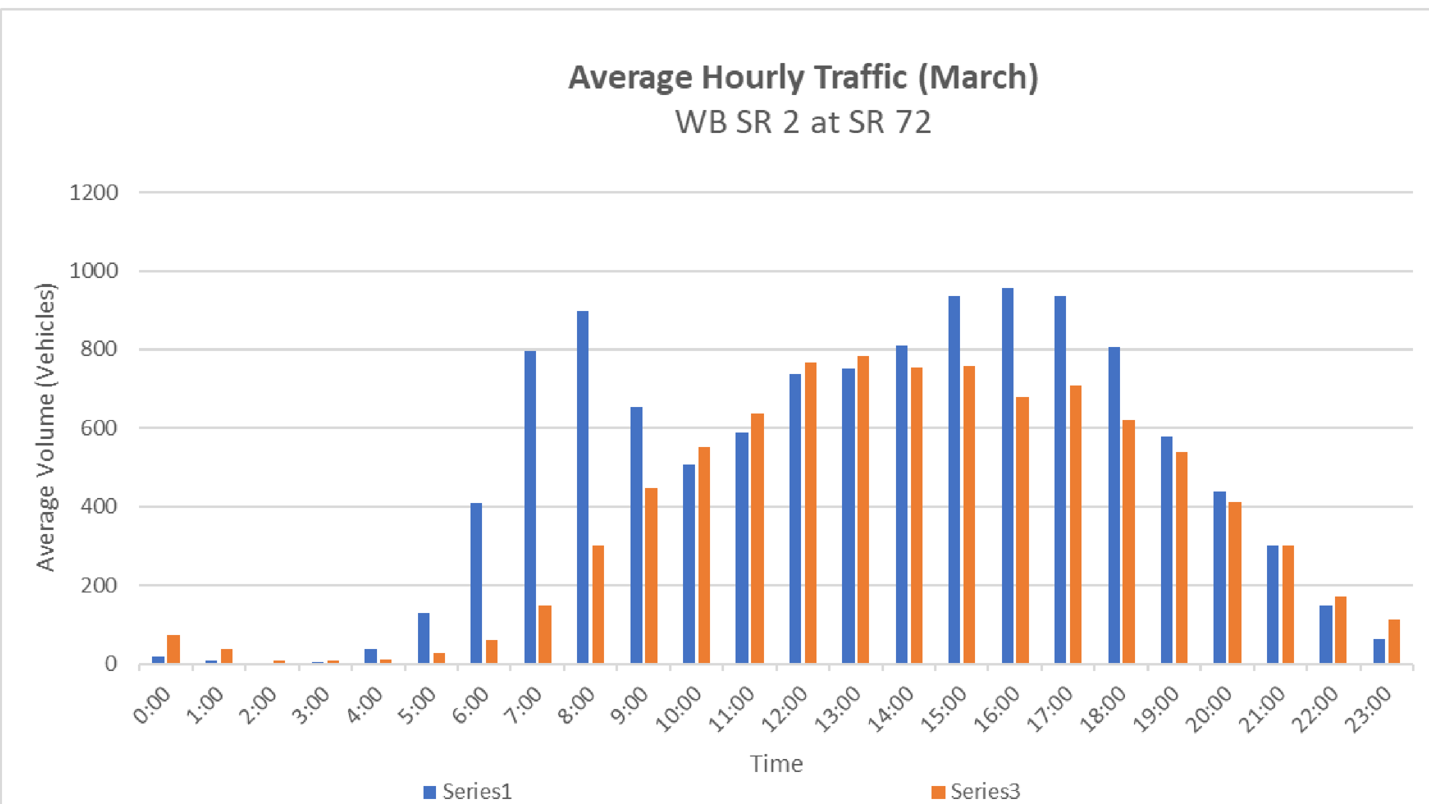
Average Hourly Traffic (February)
EB SR 2 at SR 72
Average Volume (Vehicles)
0
200
400
600
800
1000
1200
1400
1600
0:00
1:00
2:00
3:00
4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Time
Average Weekday
Average Weekend



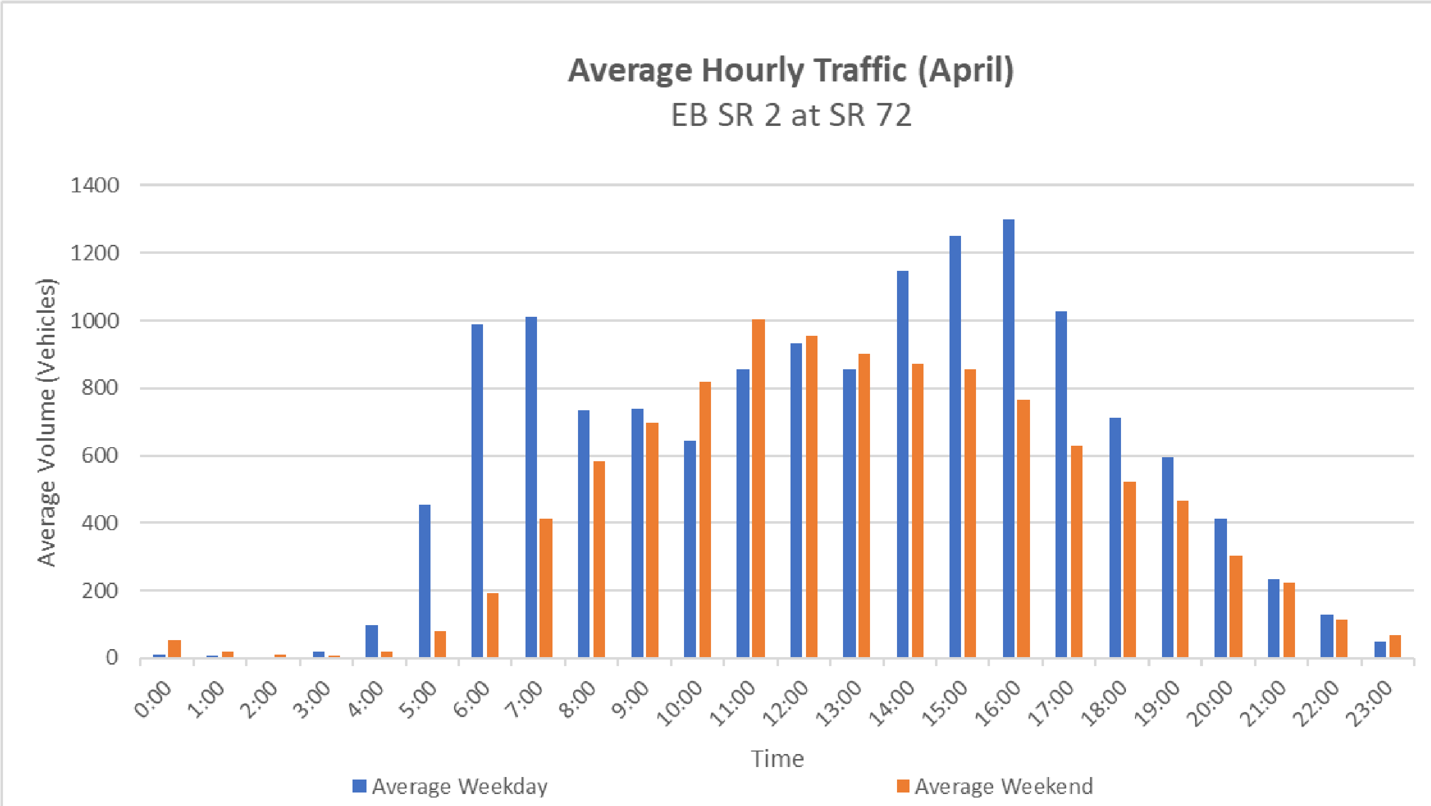
Average Hourly Traffic (February)
WB SR 2 at SR 72
Average Volume (Vehicles)
0
200
400
600
800
1000
1200
0:00
1:00
2:00
3:00
4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Time
Series1
Series3

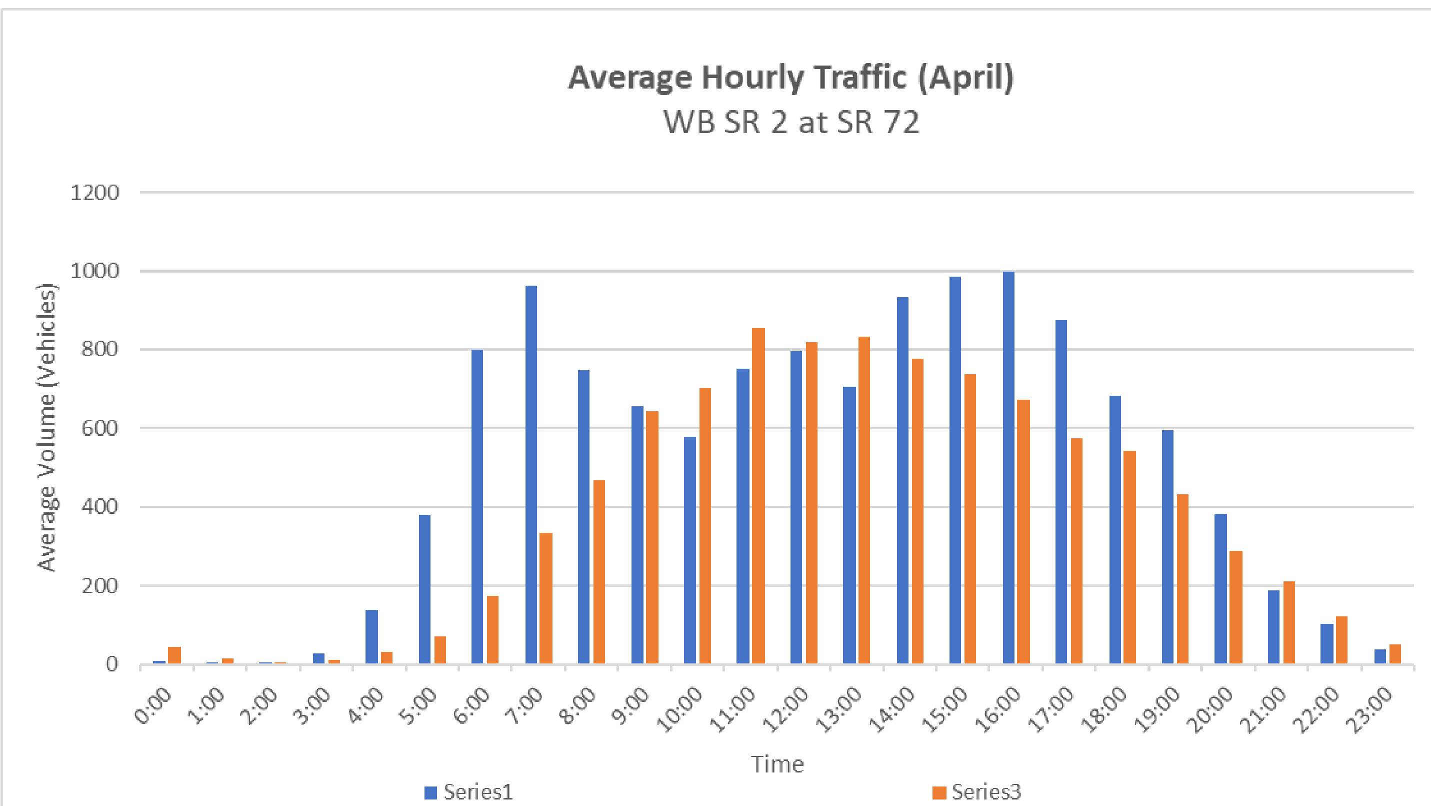
SR 2 @ SR 72


Average Hourly Traffic (March)
EB SR 2 at SR 72
Average Volume (Vehicles)
1400
1200
1000
800
600
400
200
0
0:00
1:00
2:00
3:00
4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Time
Average Weekday
Average Weekend

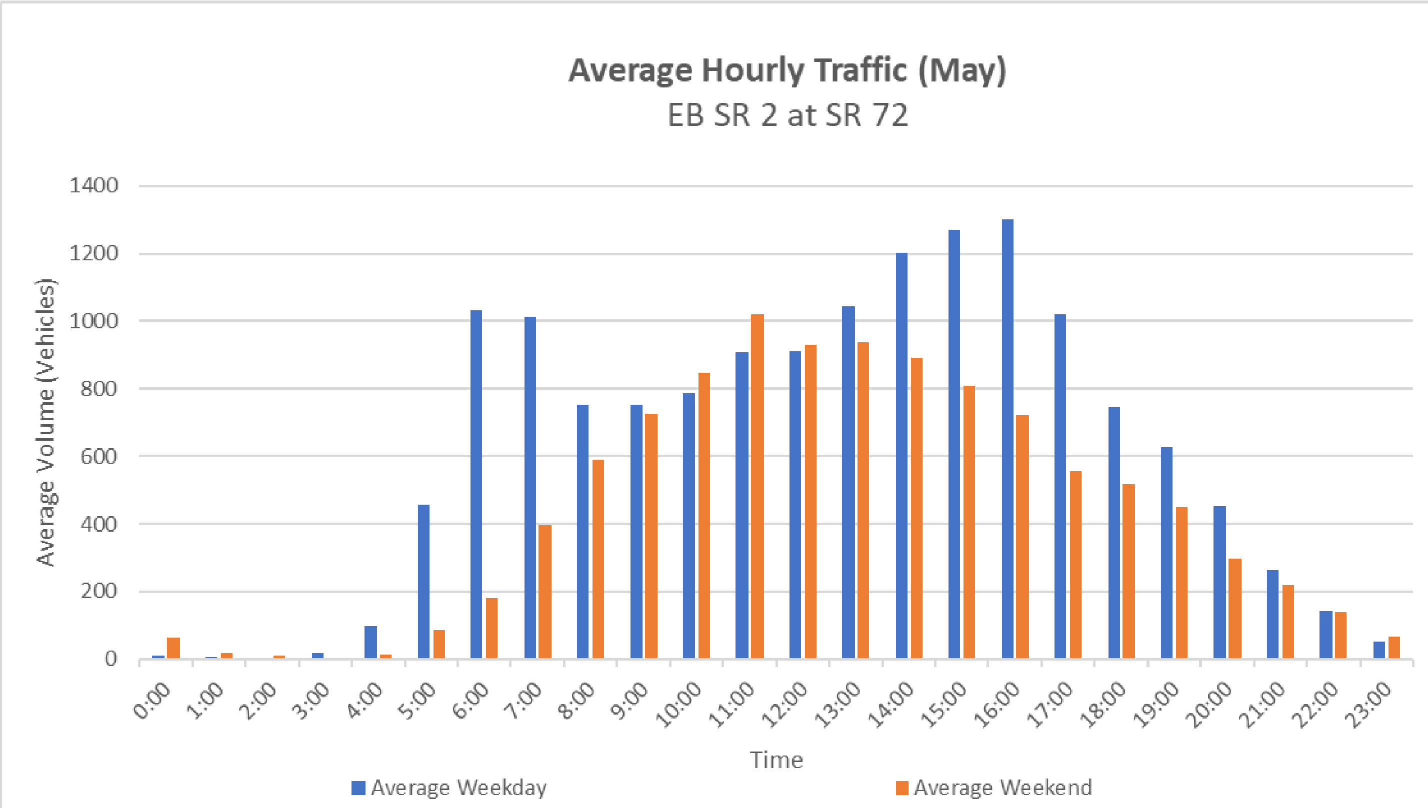

Average Hourly Traffic (March)
WB SR 2 at SR 72
Average Volume (Vehicles)
1200
1000
800
600
400
200
0
0:00
1:00
2:00
3:00
4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Time
Series1
Series3

SR 2 @ SR 72

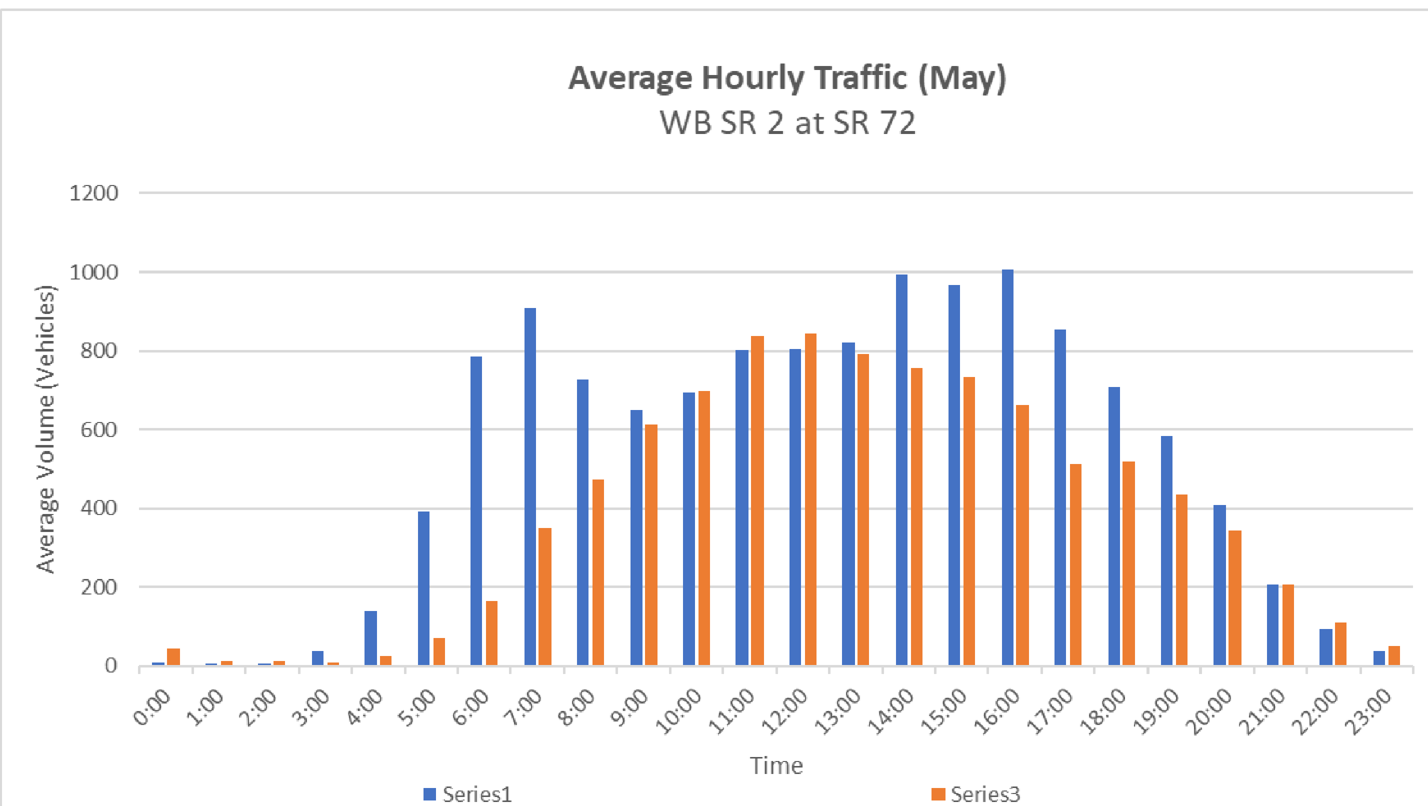

Average Hourly Traffic (April)
EB SR 2 at SR 72
Average Volume (Vehicles)
0
200
400
600
800
1000
1200
1400
0:00
1:00
2:00
3:00
4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Time
Average Weekday
Average Weekend


Average Hourly Traffic (April)
WB SR 2 at SR 72
Average Volume (Vehicles)
0
200
400
600
800
1000
1200
0:00
1:00
2:00
3:00
4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Time
Series1
Series3

SR 2 @ SR 72

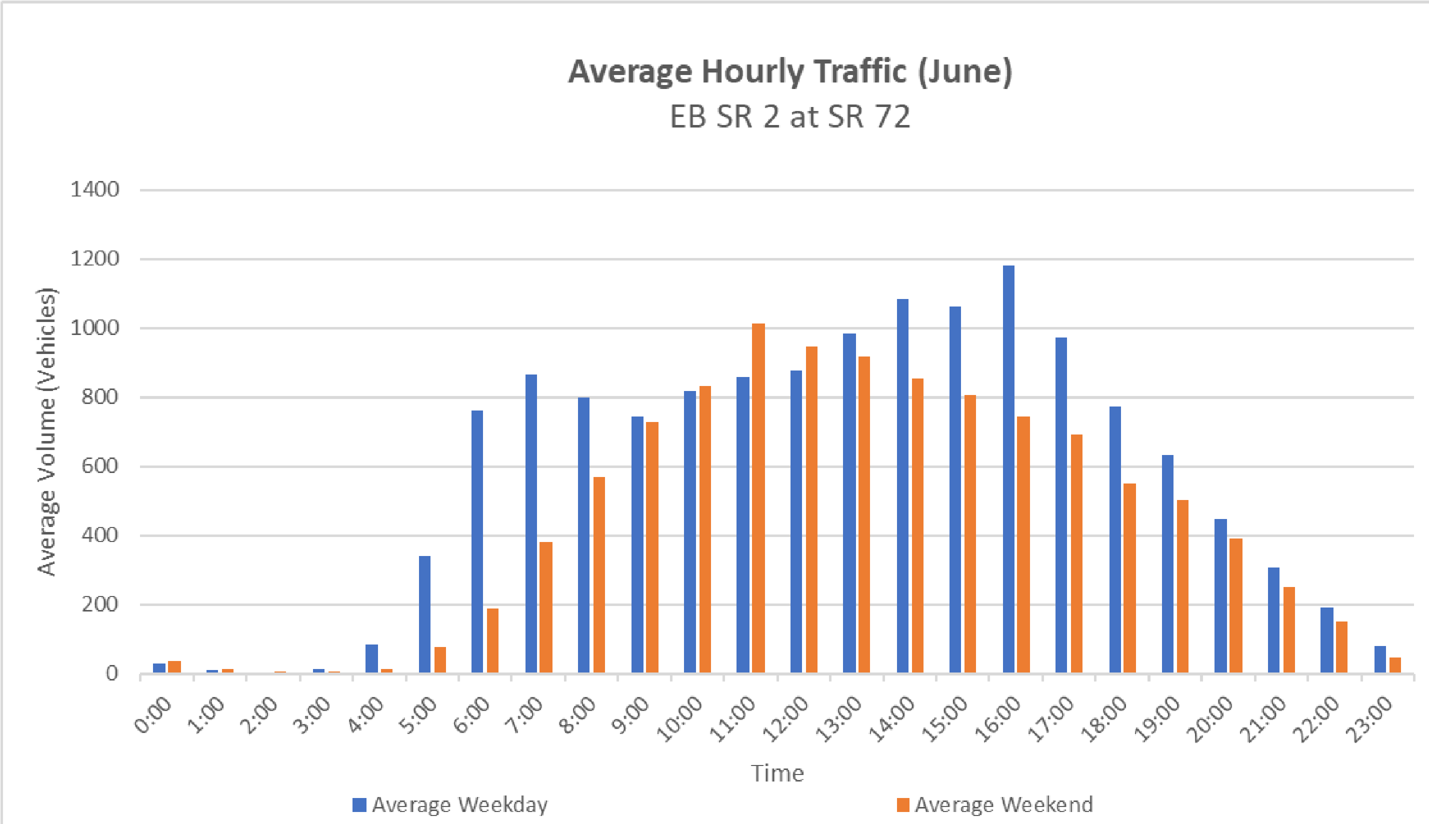


Average Hourly Traffic (May)
EB SR 2 at SR 72
1400
1200
1000
800
600
400
200
0
Average Volume (Vehicles)
0:00
1:00
2:00
3:00
4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Time
Average Weekday
Average Weekend

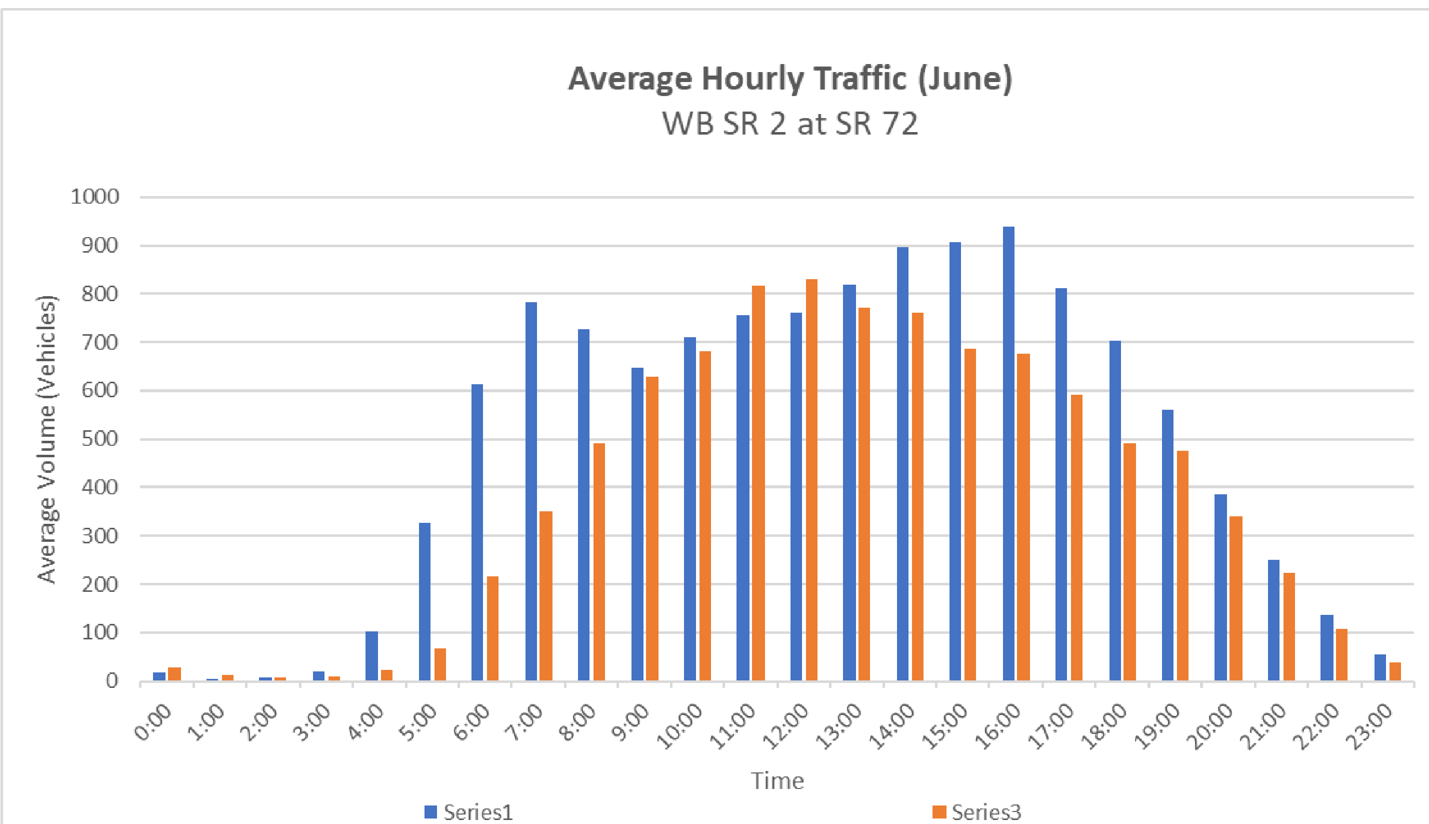


Average Hourly Traffic (May)
WB SR 2 at SR 72
1200
1000
800
600
400
200
0
Average Volume (Vehicles)
0:00
1:00
2:00
3:00
4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Time
Series1
Series3

SR 2 @ SR 72

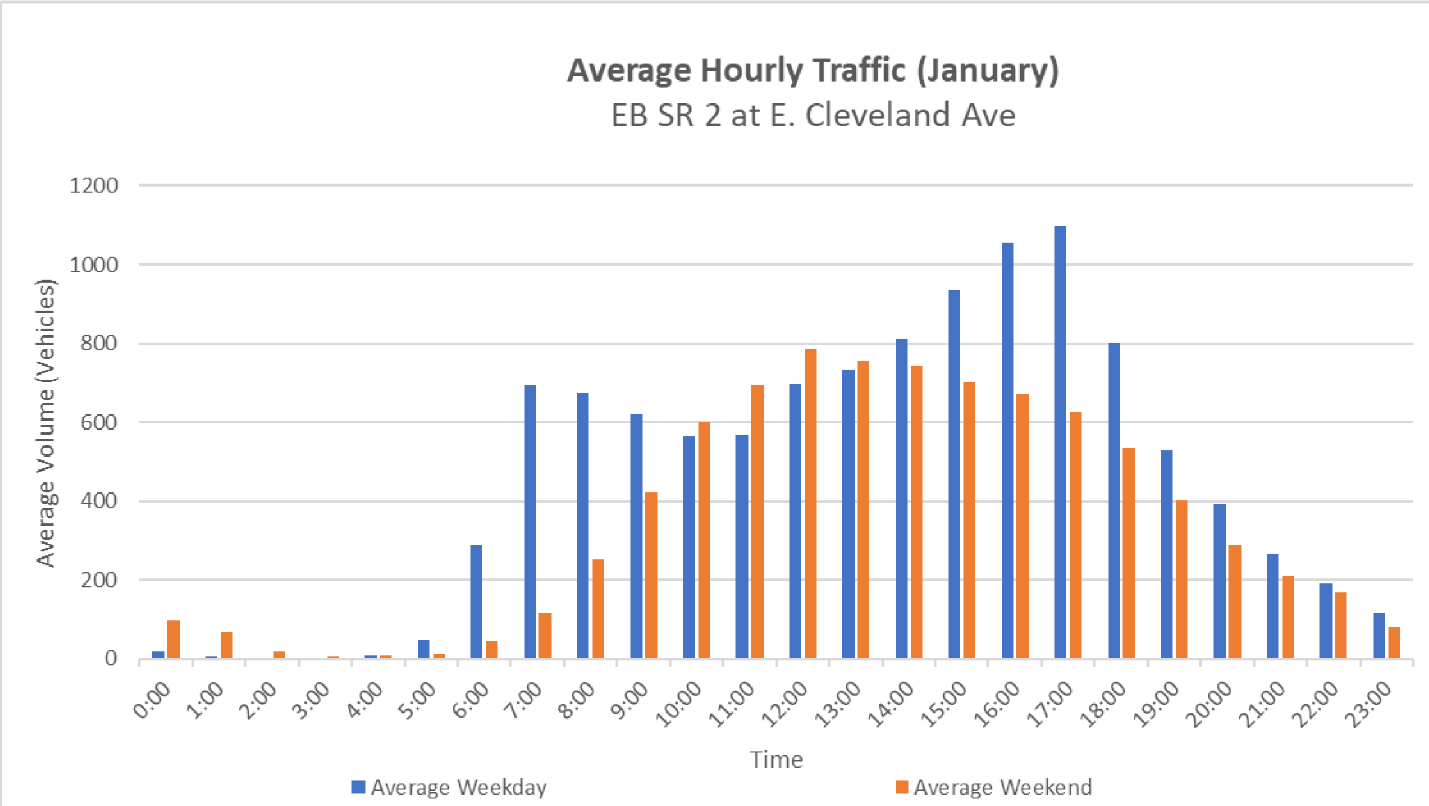


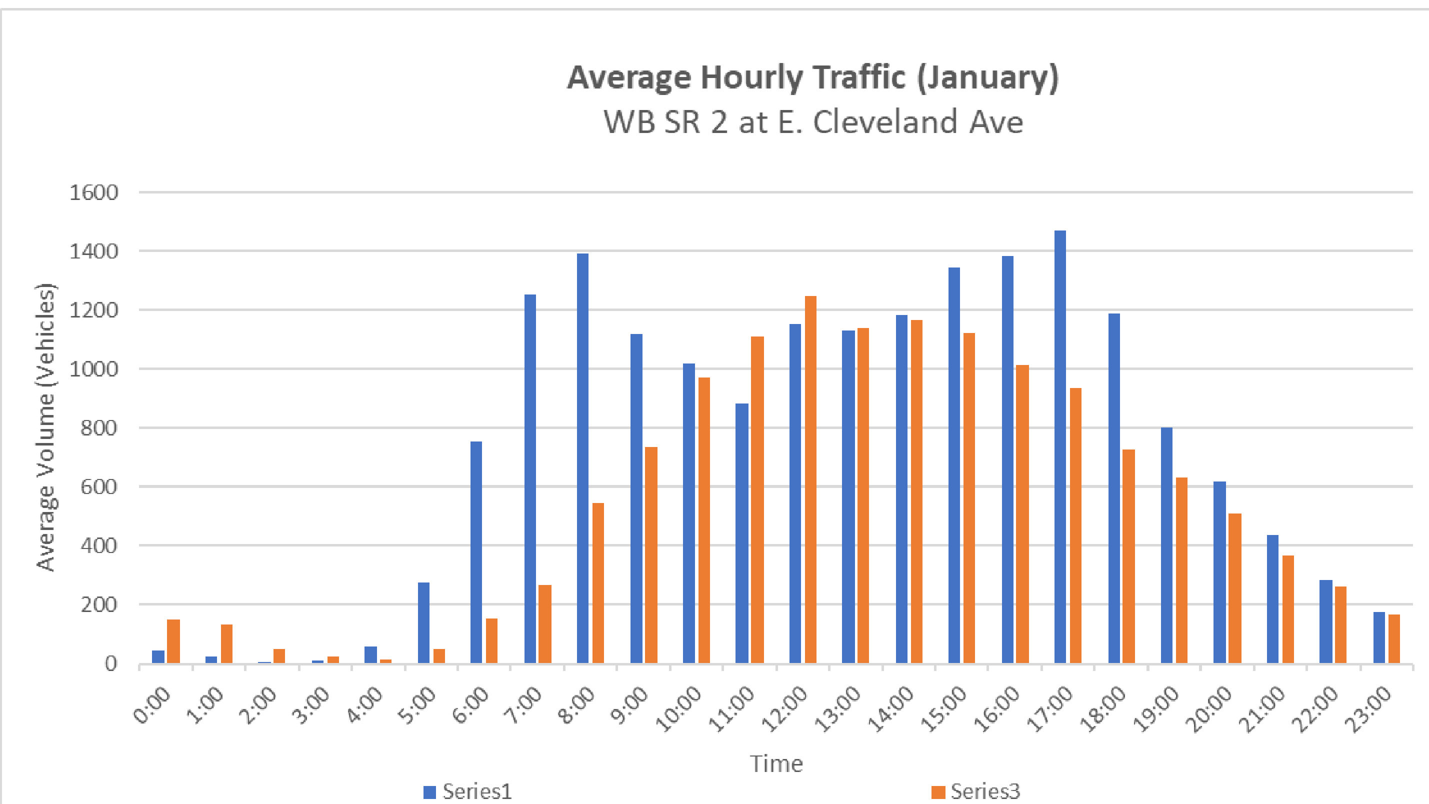
Average Hourly Traffic (June)
EB SR 2 at SR 72
1400
1200
1000
800
600
400
200
0
Average Volume (Vehicles)
0:00
1:00
2:00
3:00
4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Time
Average Weekday
Average Weekend



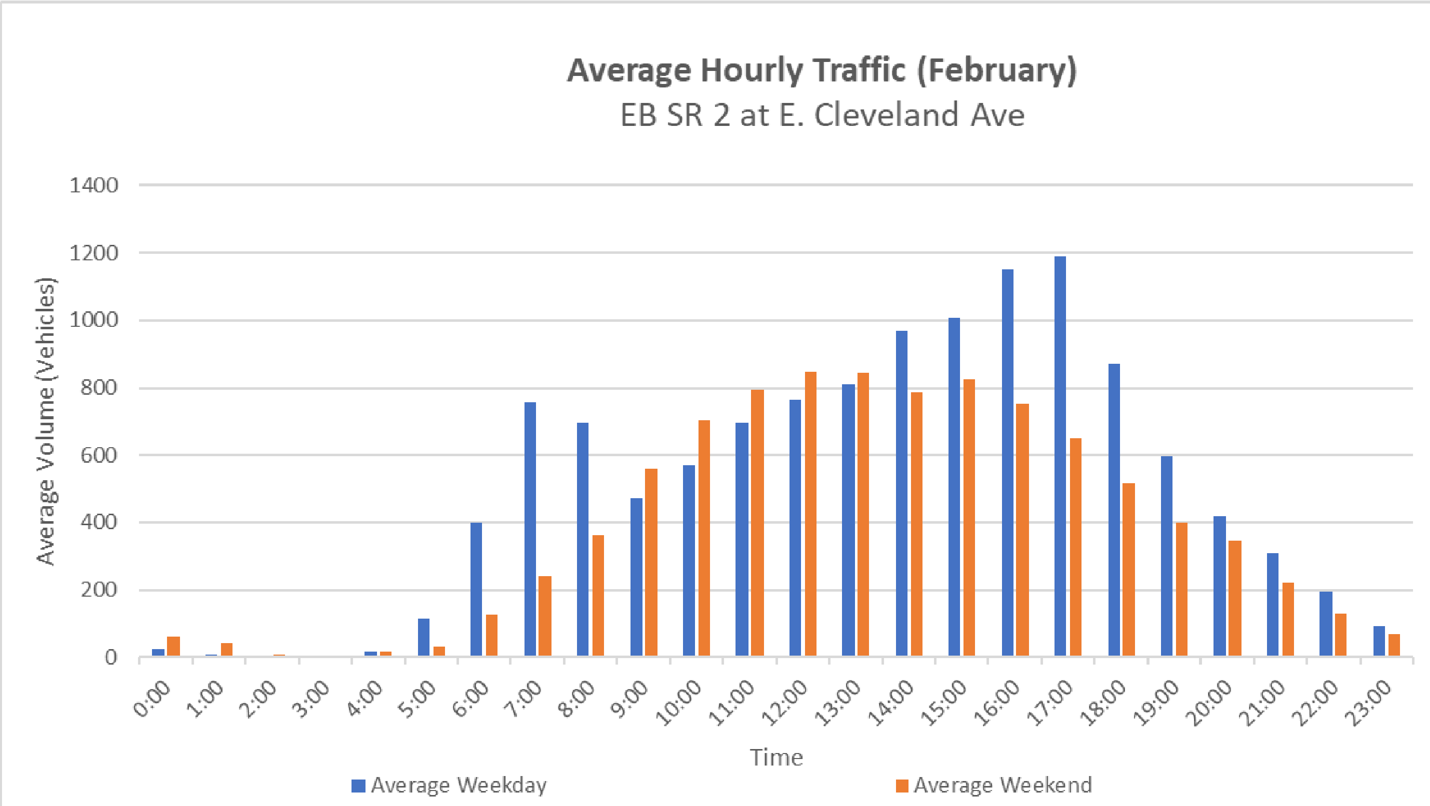
Average Hourly Traffic (June)
WB SR 2 at SR 72
1000
900
800
700
600
500
400
300
200
100
0
Average Volume (Vehicles)
0:00
1:00
2:00
3:00
4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Time
Series1
Series3

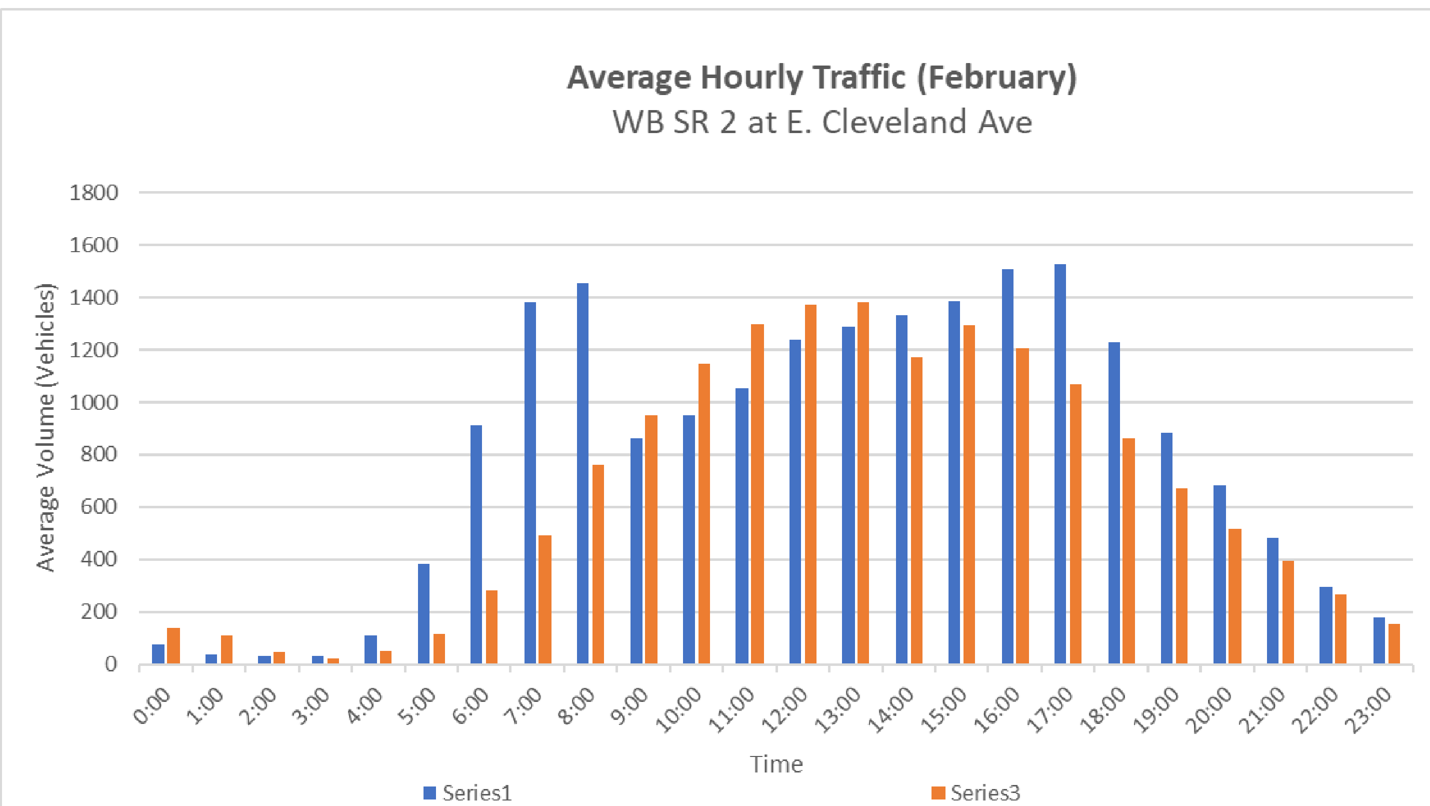
SR 2 @ E. Cleveland Avenue



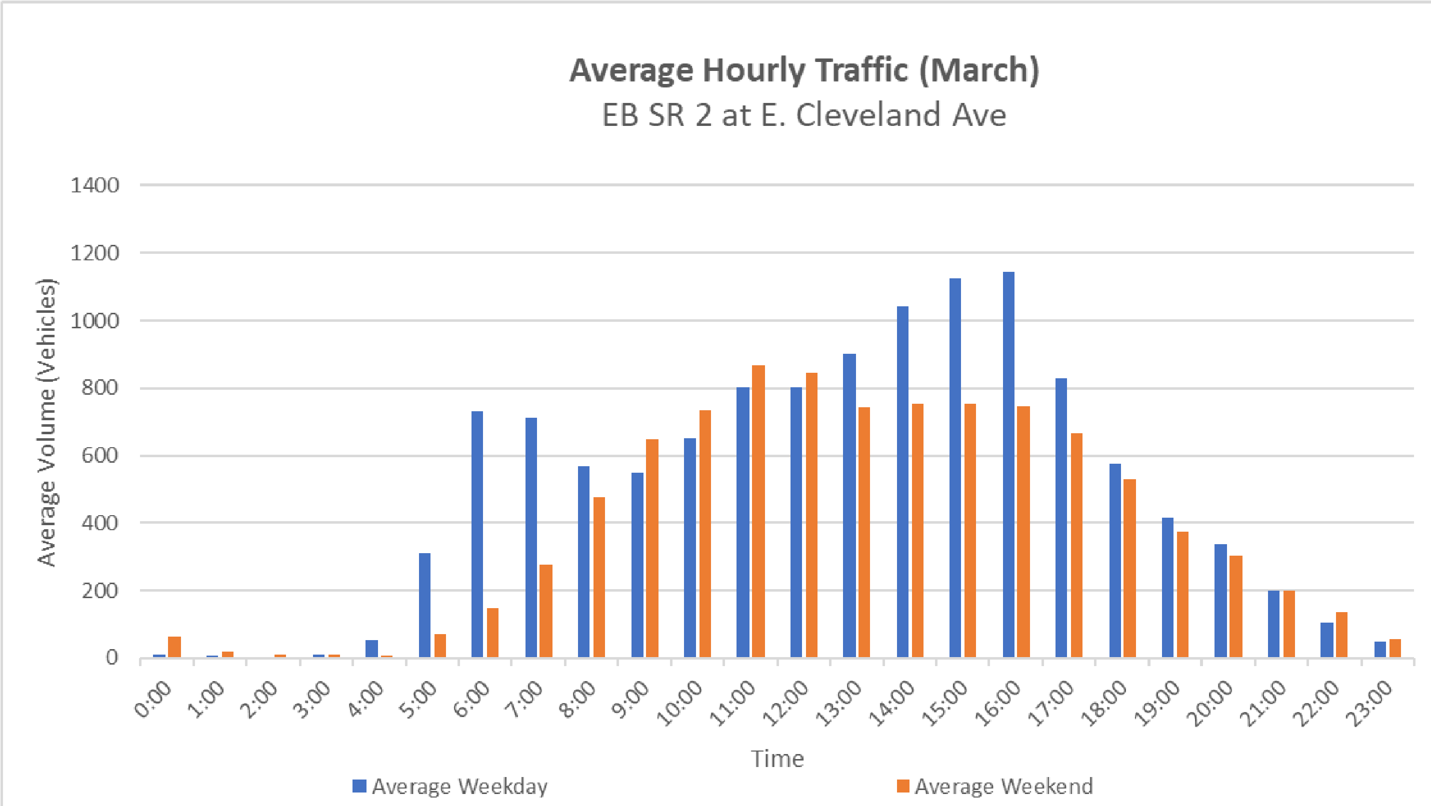


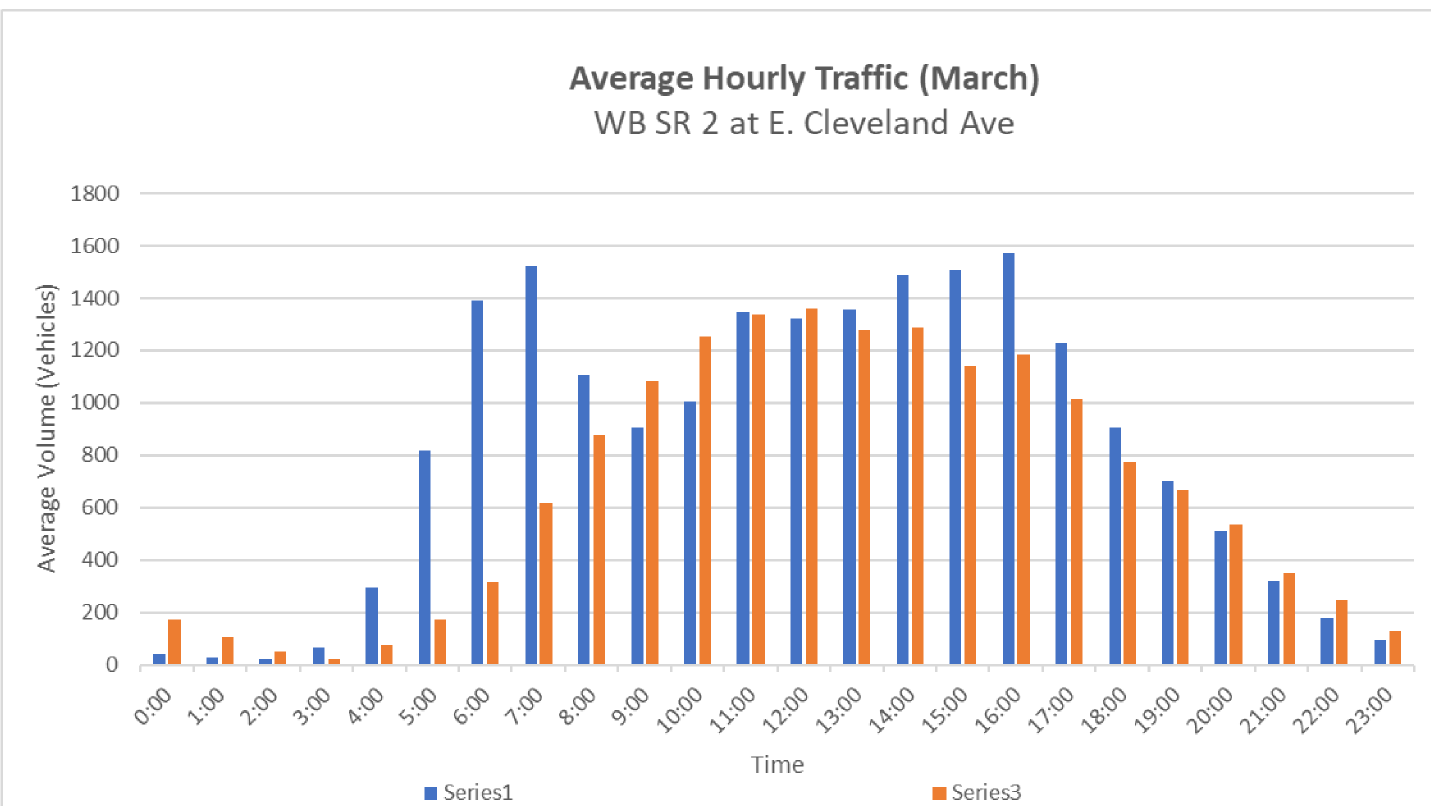
SR 2 @ E. Cleveland Avenue



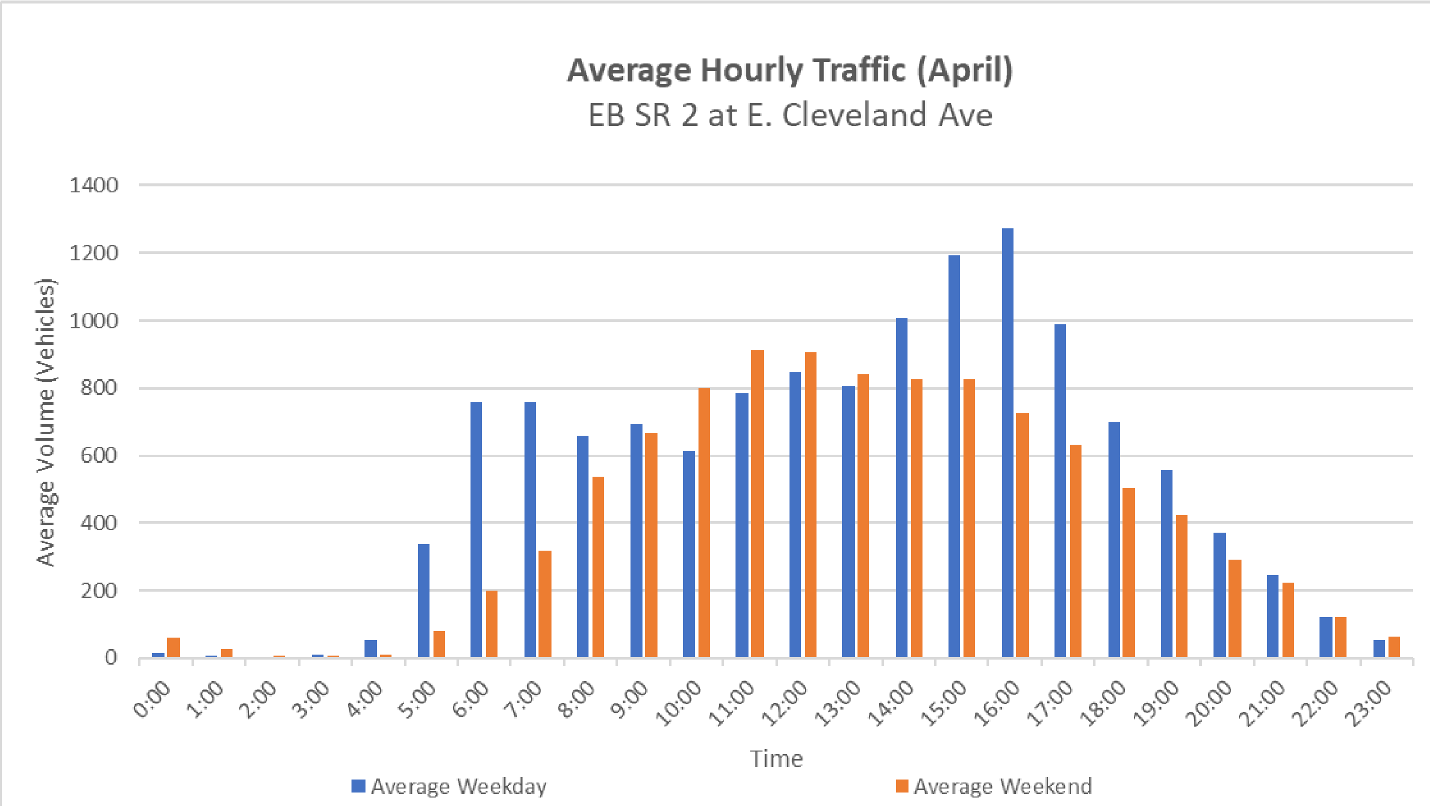


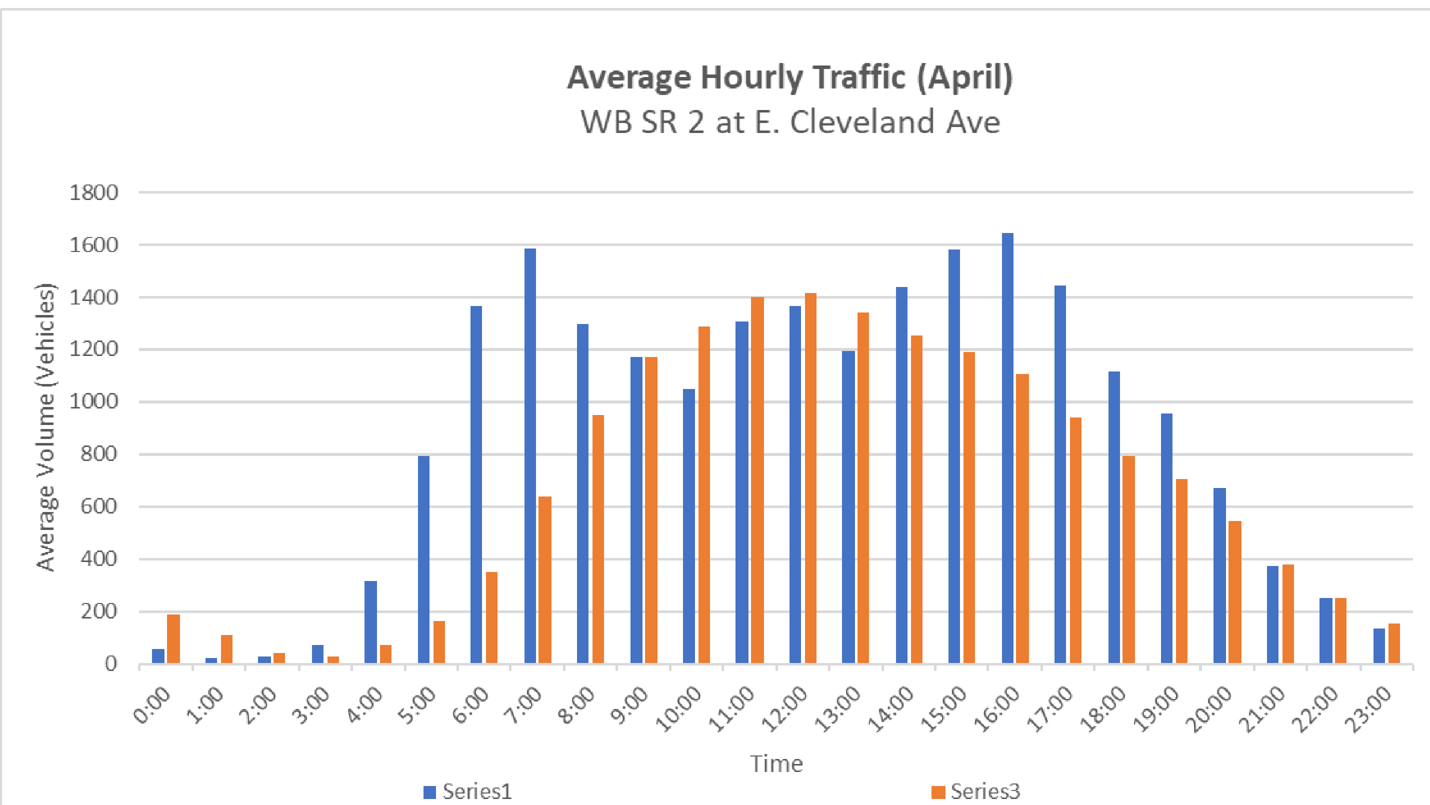
SR 2 @ E. Cleveland Avenue



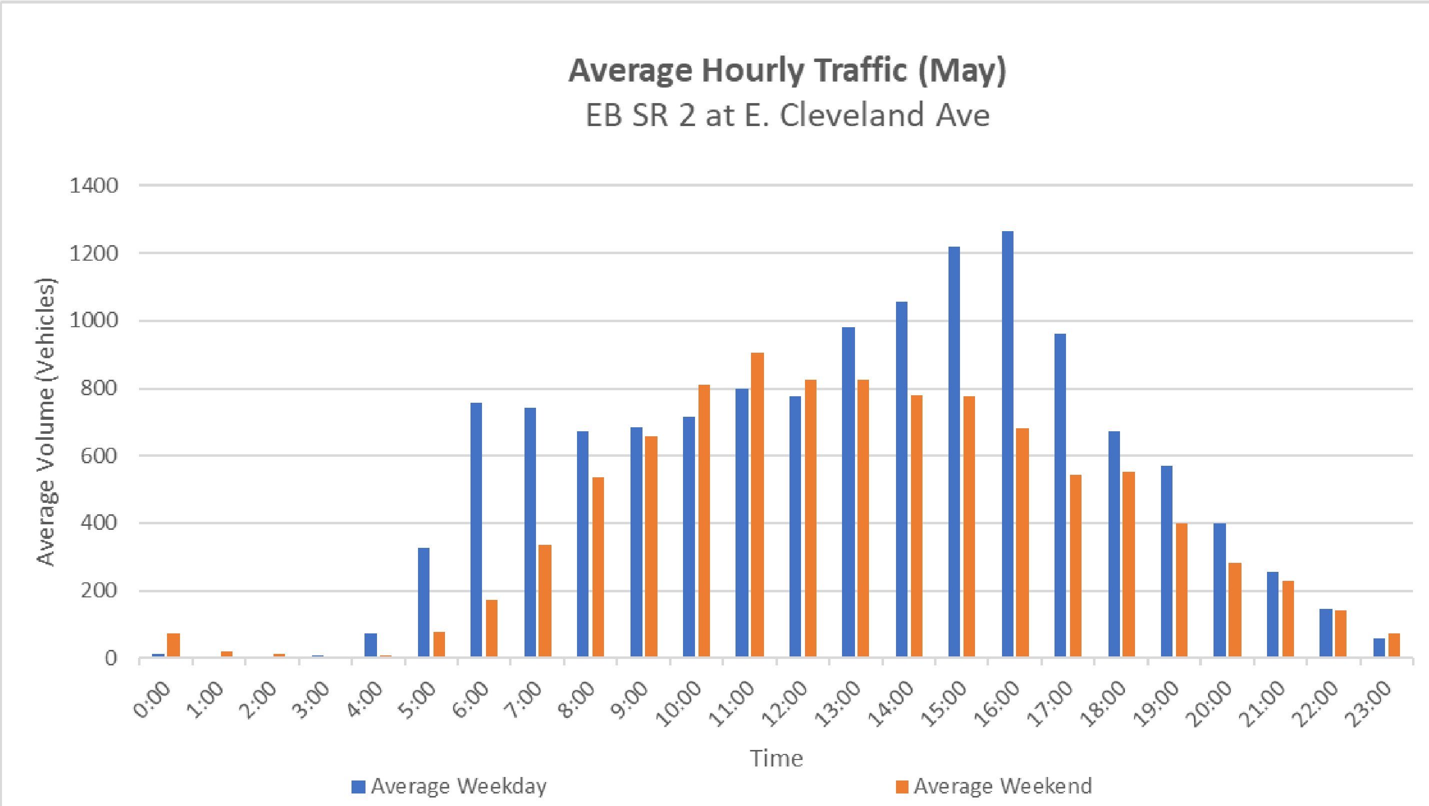


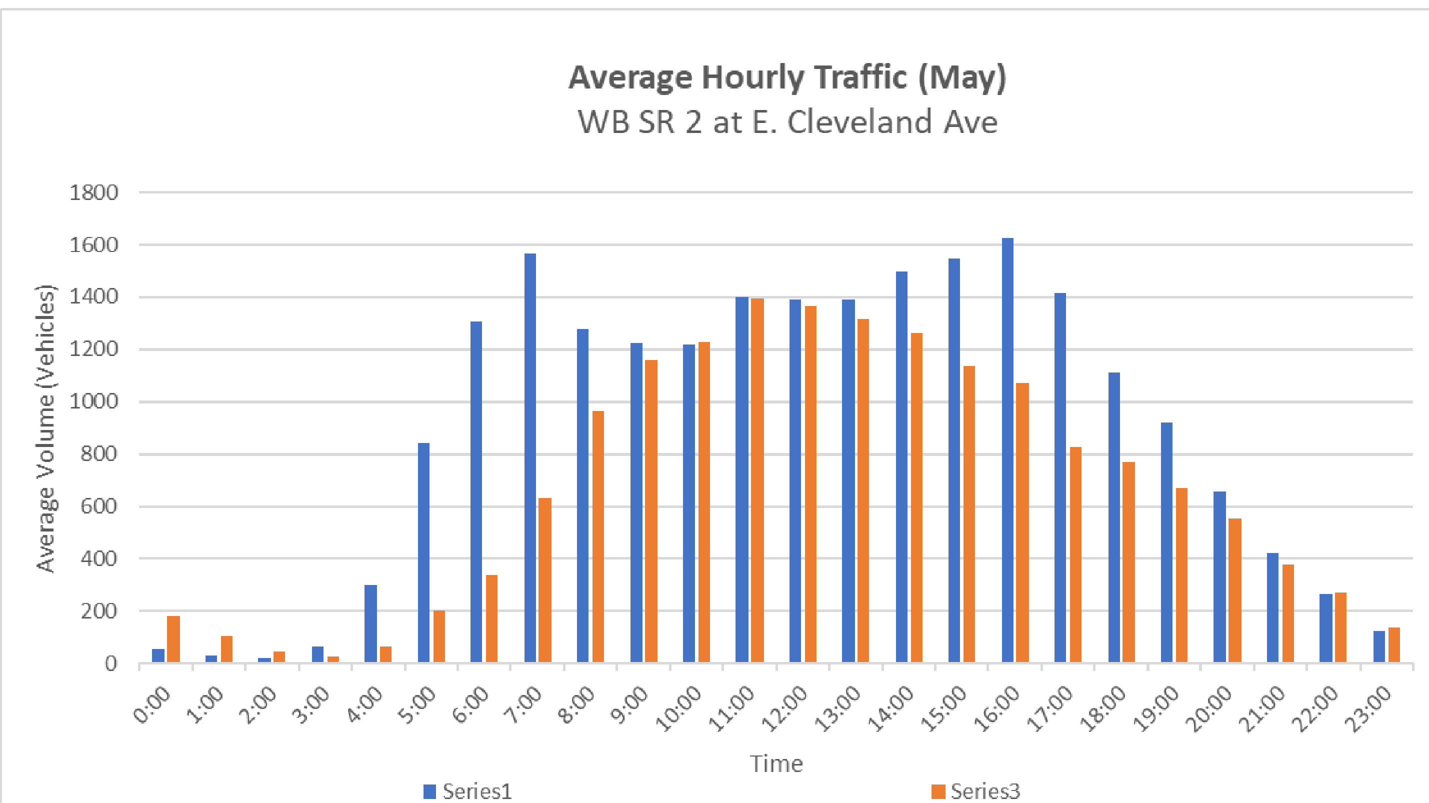
SR 2 @ E. Cleveland Avenue



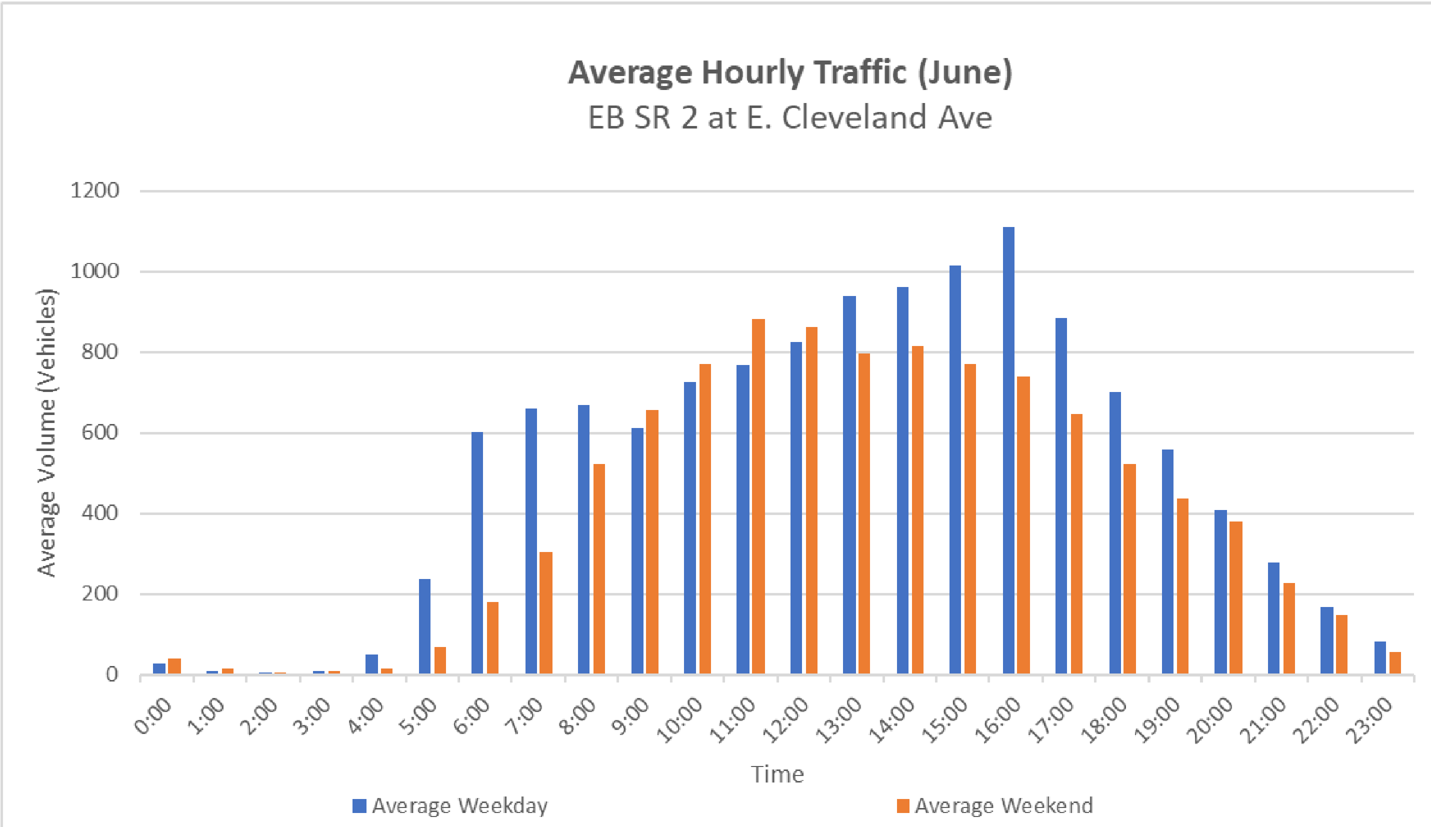


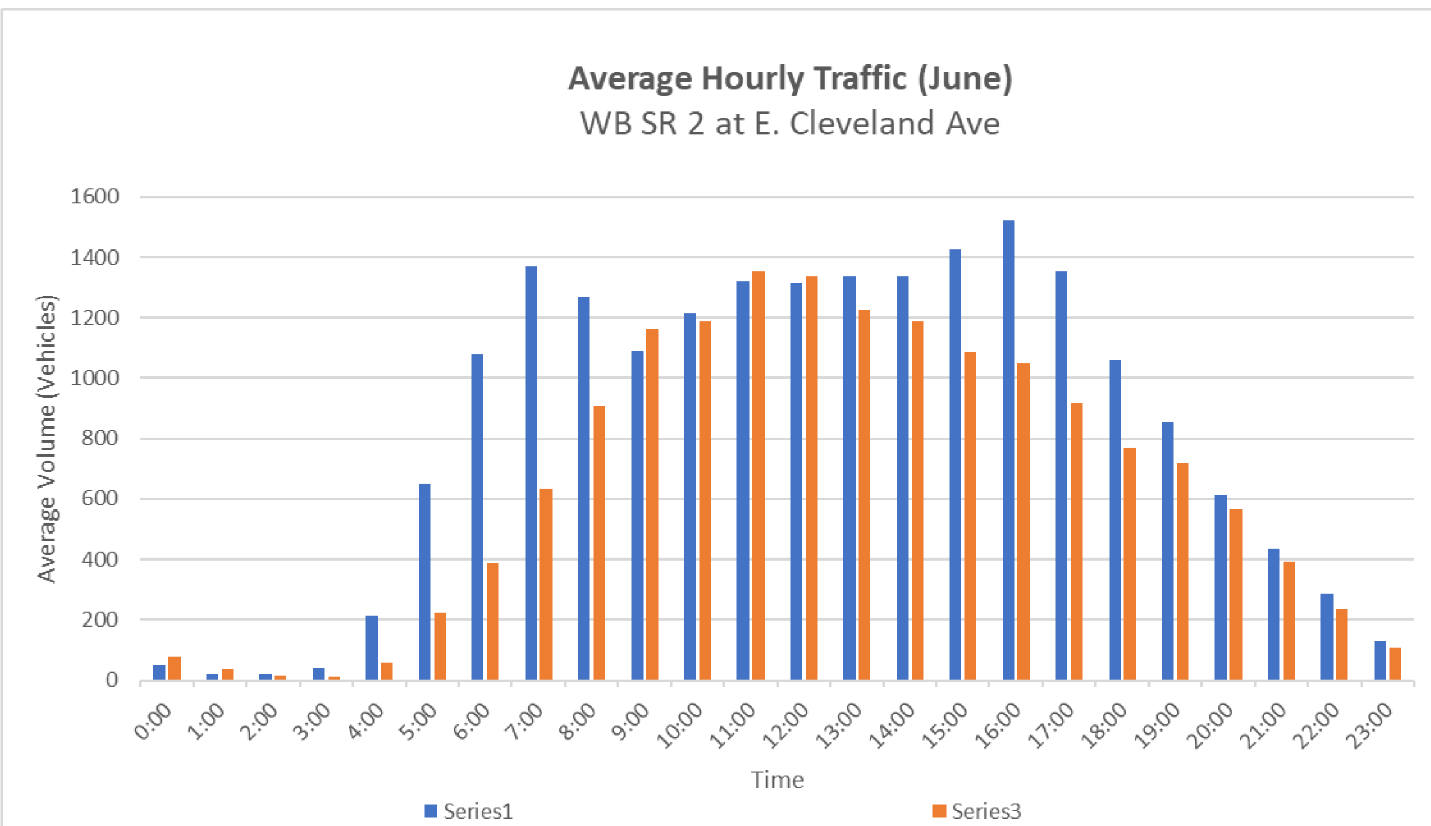
SR 2 @ E. Cleveland Avenue



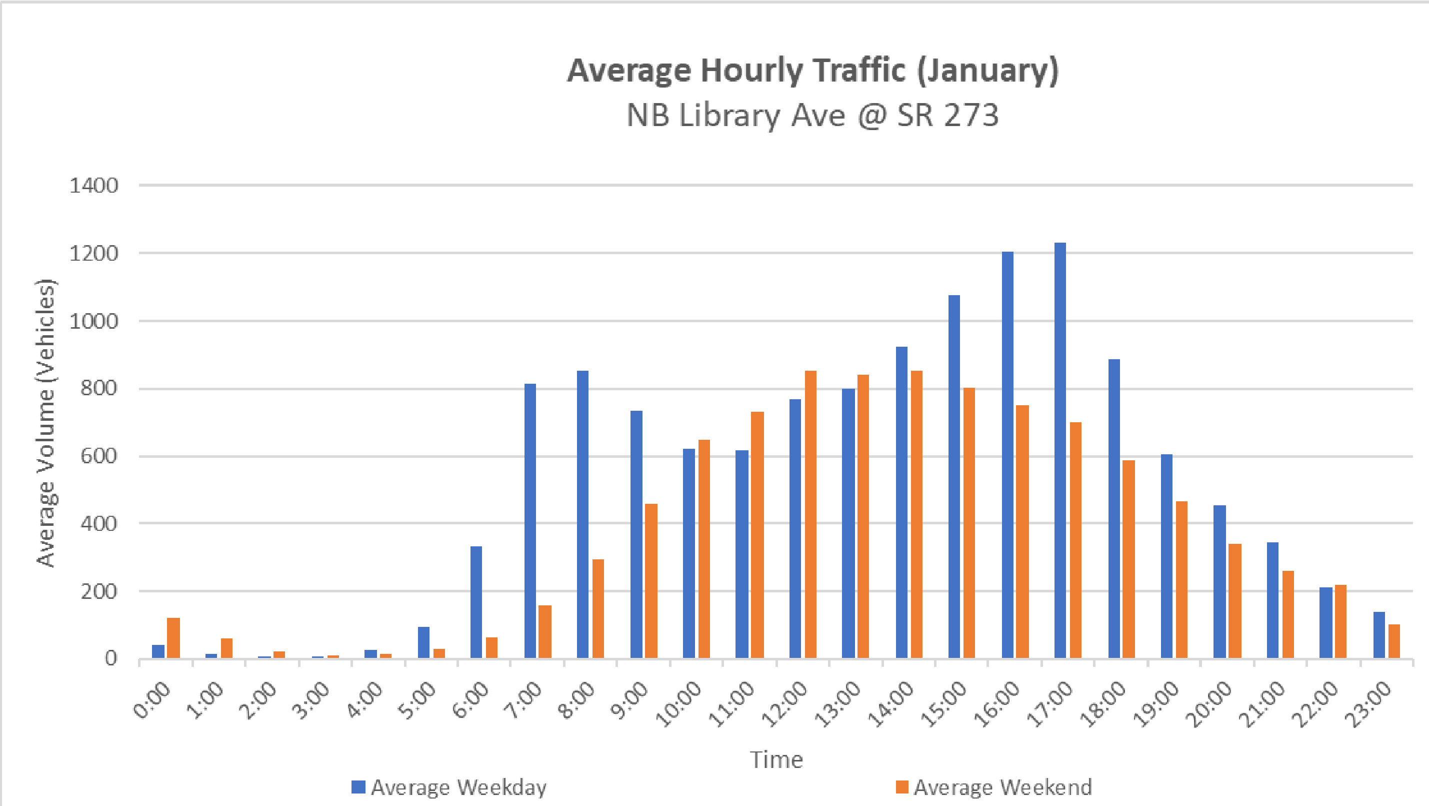


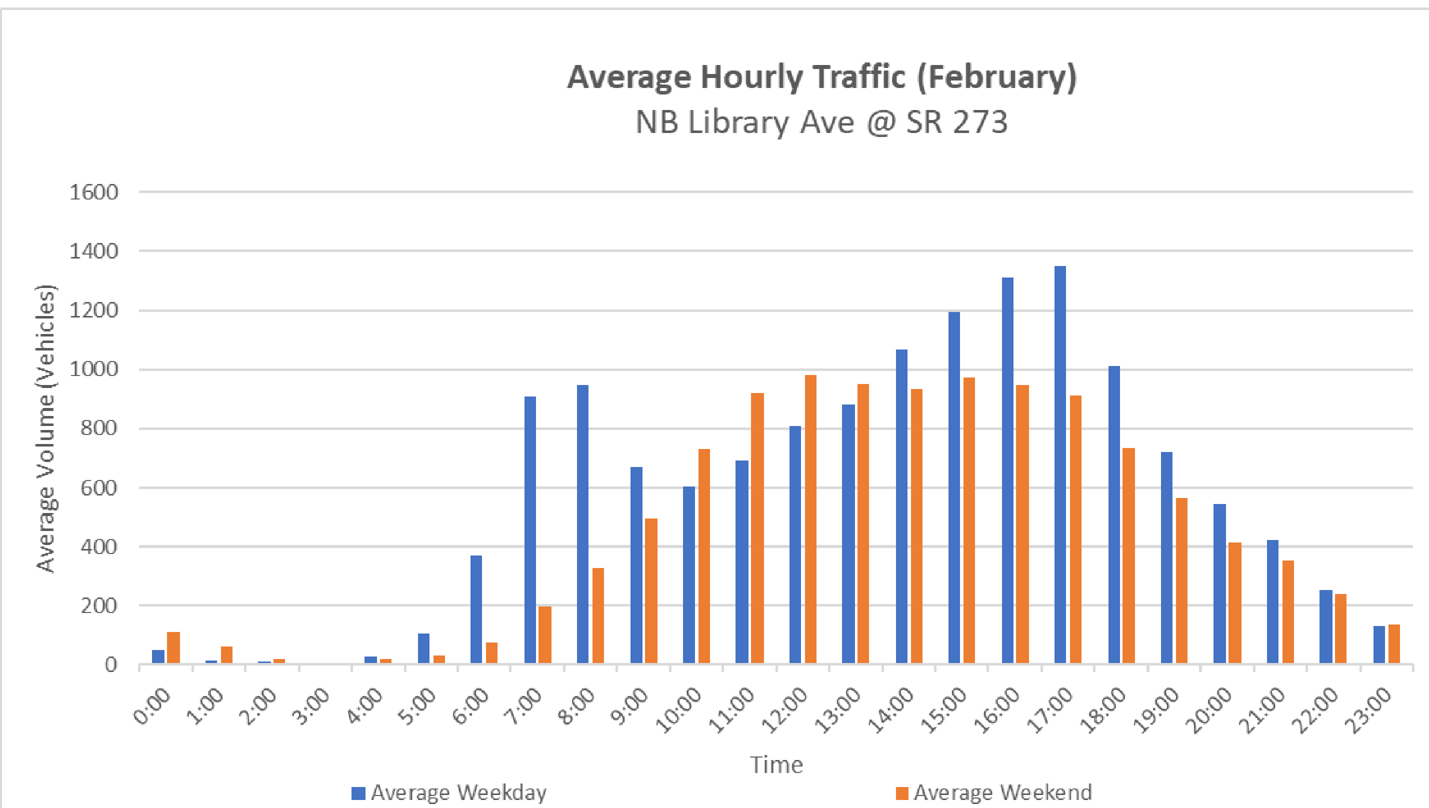
SR 2 @ E. Cleveland Avenue



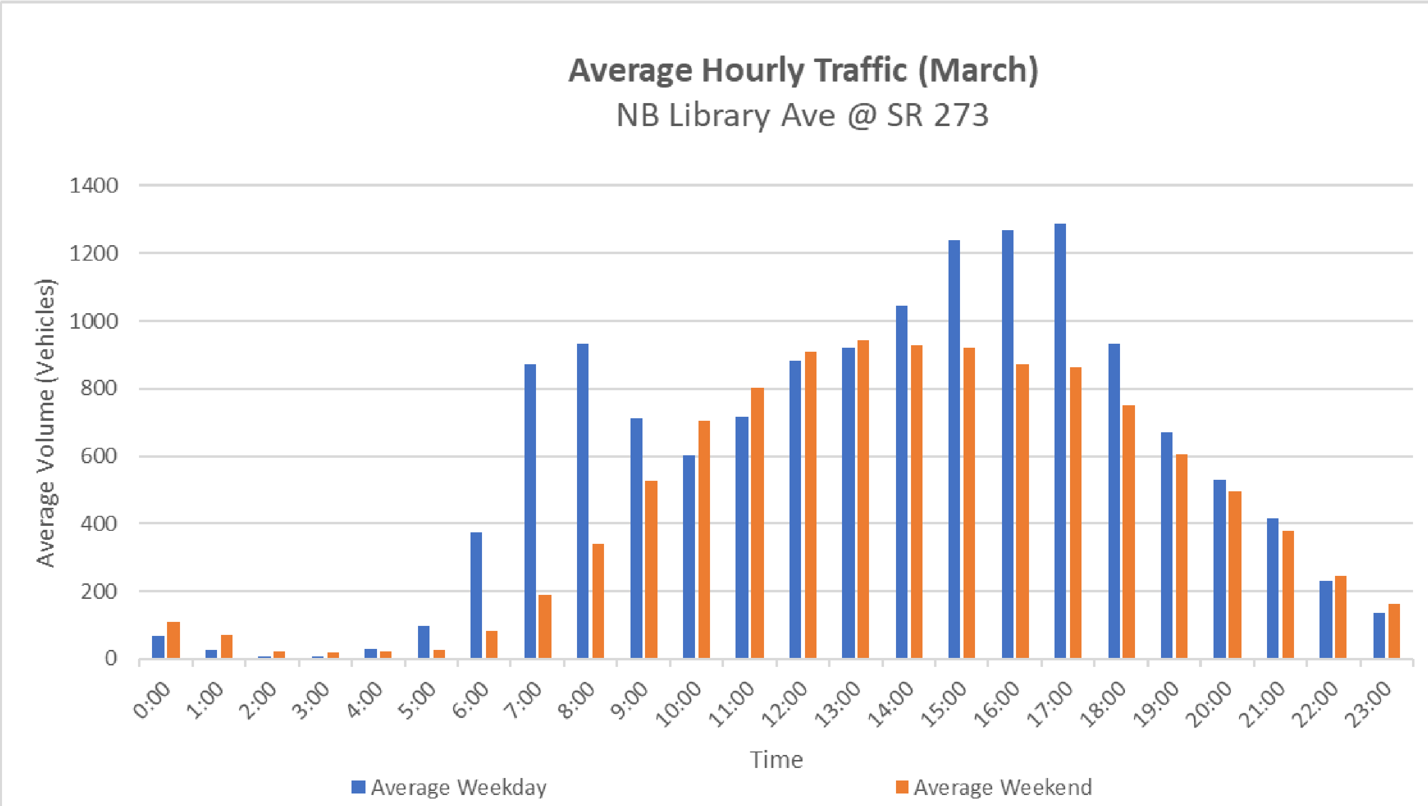


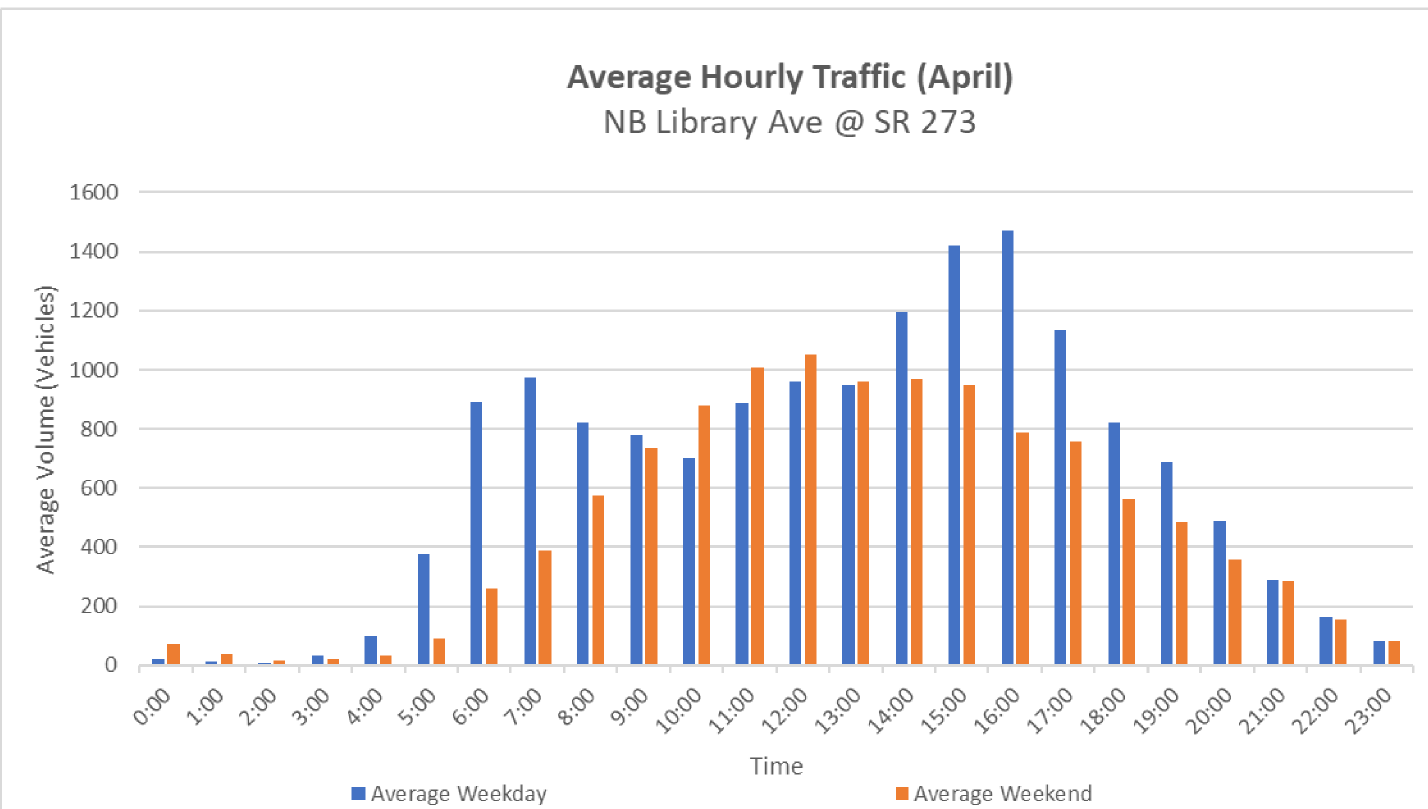
SR 273 @ Library Avenue



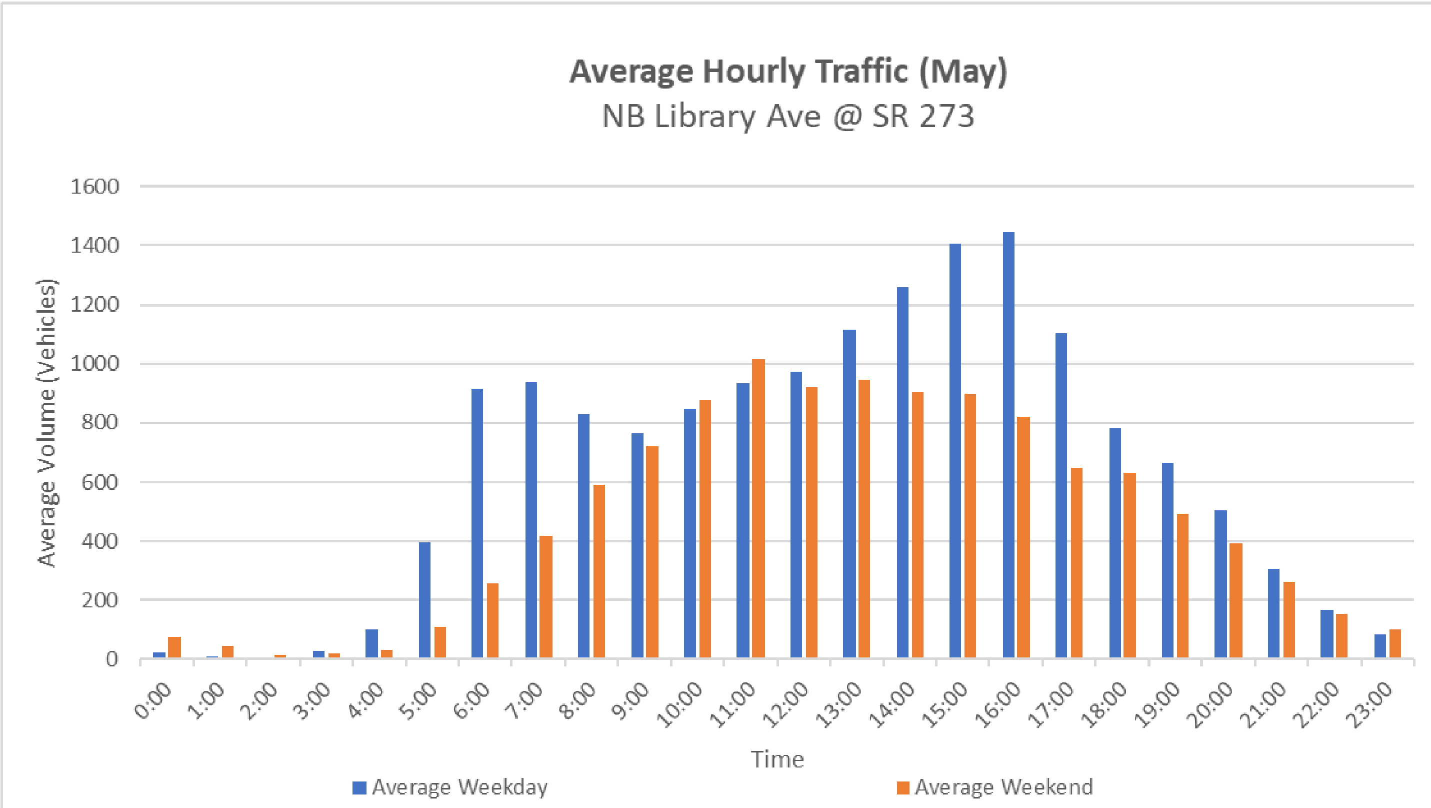


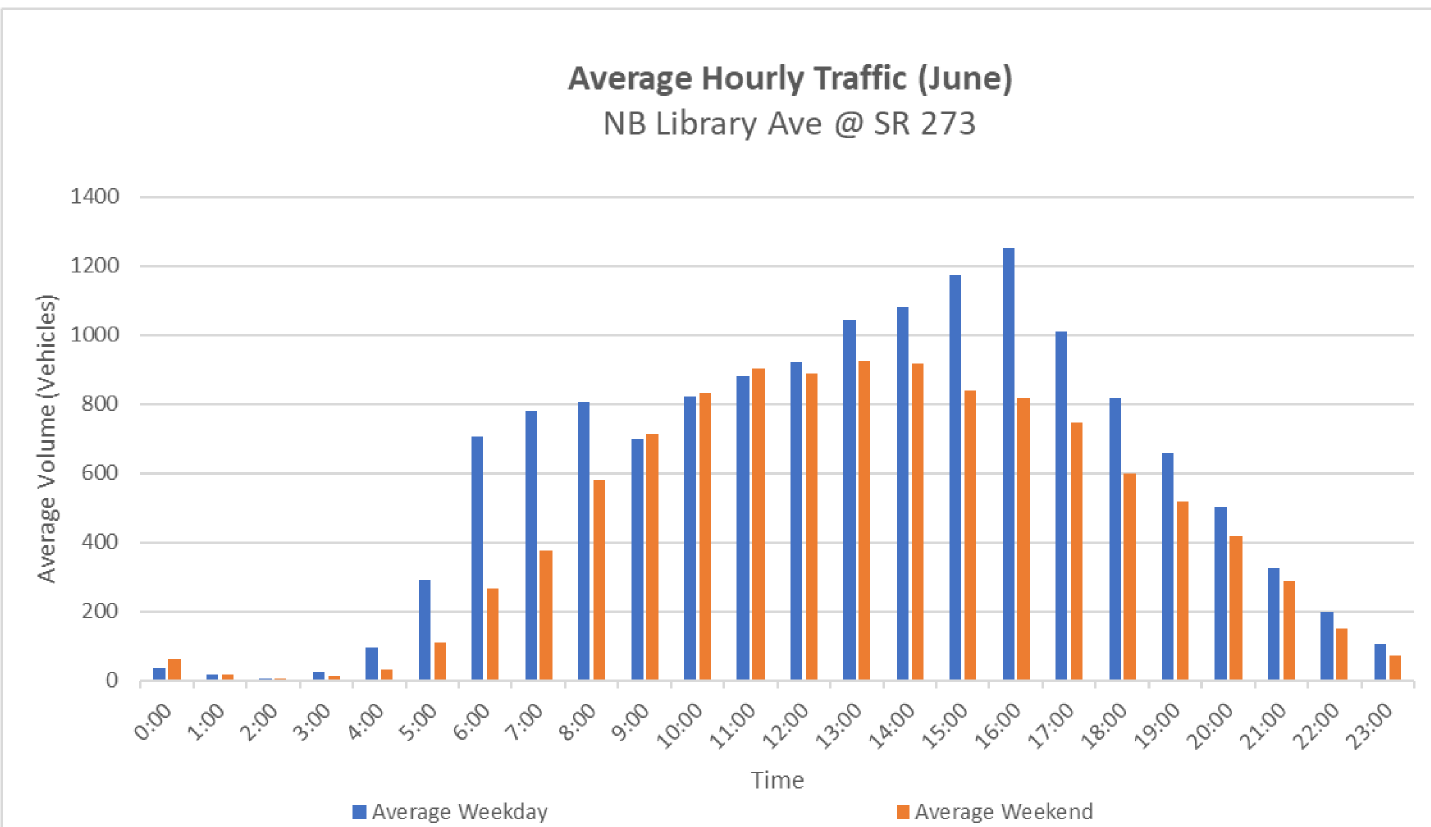
SR 273 @ Library Avenue





SR 273 @ Library Avenue





Attachment B

Road User Cost Summary

SR 2 Eastbound @Milltown Rd Weekday

SR 2 EB Weekday	2 -> 1 Lanes			Vehicle queue	Avg Delay	HOURLY RUC	15-MIN RUC
	Volume	Capacity	Over Cap	Miles	Hours		
12:00 AM	27	804	0				
1:00 AM	14	804	0				
2:00 AM	7	804	0				
3:00 AM	6	804	0				
4:00 AM	21	804	0				
5:00 AM	120	804	0				
6:00 AM	484	804	0				
7:00 AM	989	804	185	0.35	0.12	$ 2,957.93	$ 739.48
8:00 AM	1048	804	429	0.81	0.27	$ 7,268.40	$ 1,817.10
9:00 AM	875	804	500	0.95	0.31	$ 7,072.92	$ 1,768.23
10:00 AM	726	804	422	0.80	0.26	$ 4,953.01	$ 1,238.25
11:00 AM	746	804	364	0.69	0.23	$ 4,389.96	$ 1,097.49
12:00 PM	882	804	442	0.84	0.27	$ 6,302.48	$ 1,575.62
1:00 PM	892	804	530	1.00	0.33	$ 7,642.95	$ 1,910.74
2:00 PM	980	804	706	1.34	0.44	$ 11,185.39	$ 2,796.35
3:00 PM	1091	804	993	1.88	0.62	$ 17,514.37	$ 4,378.59
4:00 PM	1172	804	1361	2.58	0.85	$ 25,787.32	$ 6,446.83
5:00 PM	1119	804	1676	3.17	1.04	$ 30,319.68	$ 7,579.92
6:00 PM	881	804	1753	3.32	1.09	$ 24,967.69	$ 6,241.92
7:00 PM	640	804	1589	3.01	0.99	$ 16,440.85	$ 4,110.21
8:00 PM	497	804	1282	2.43	0.80	$ 10,300.66	$ 2,575.16
9:00 PM	348	804	826	1.56	0.51	$ 4,647.08	$ 1,161.77
10:00 PM	195	804	217	0.41	0.13	$ 684.09	$ 171.02
11:00 PM	103	804	0				
						$182,435	

Overcapacity

SR 2 Eastbound @Milltown Rd Weekend

SR 2 EB Weekend	2 -> 1 Lanes			Vehicle queue	Avg Delay	HOURLY RUC	15-MIN RUC
	Volume	Capacity	Over Cap	Miles	Hours		
12:00 AM	77	804	0				
1:00 AM	48	804	0				
2:00 AM	20	804	0				
3:00 AM	8	804	0				
4:00 AM	8	804	0				
5:00 AM	24	804	0				
6:00 AM	97	804	0				
7:00 AM	195	804	0				
8:00 AM	366	804	0				
9:00 AM	596	804	0				
10:00 AM	759	804	0				
11:00 AM	862	804	58	0.11	0.04	$ 808.27	$ 202.07
12:00 PM	981	804	235	0.45	0.15	$ 3,726.98	$ 931.75
1:00 PM	968	804	399	0.76	0.25	$ 6,244.08	$ 1,561.02
2:00 PM	902	804	497	0.94	0.31	$ 7,247.42	$ 1,811.85
3:00 PM	866	804	559	1.06	0.35	$ 7,826.19	$ 1,956.55
4:00 PM	824	804	579	1.10	0.36	$ 7,713.05	$ 1,928.26
5:00 PM	723	804	498	0.94	0.31	$ 5,820.87	$ 1,455.22
6:00 PM	624	804	318	0.60	0.20	$ 3,207.98	$ 802.00
7:00 PM	484	804	0				
8:00 PM	390	804	0				
9:00 PM	279	804	0				
10:00 PM	184	804	0				
11:00 PM	97	804	0				
						$42,595	

Overcapacity

SR 2 Westbound @Milltown Rd Weekday

SR 2 WB Weekday	2 -> 1 Lanes			Vehicle queue	Avg Delay	HOURLY RUC	15-MIN RUC
	Volume	Capacity	Over Cap	Miles	Hours		
12:00 AM	28	804	0				
1:00 AM	10	804	0				
2:00 AM	7	804	0				
3:00 AM	5	804	0				
4:00 AM	24	804	0				
5:00 AM	94	804	0				
6:00 AM	271	804	0				
7:00 AM	649	804	0				
8:00 AM	721	804	0				
9:00 AM	613	804	0				
10:00 AM	618	804	0				
11:00 AM	682	804	0				
12:00 PM	829	804	25	0.05	0.02	$ 335.05	$ 83.76
1:00 PM	870	804	91	0.17	0.06	$ 1,279.92	$ 319.98
2:00 PM	928	804	215	0.41	0.13	$ 3,225.57	$ 806.39
3:00 PM	1124	804	535	1.01	0.33	$ 9,721.66	$ 2,430.42
4:00 PM	1253	804	984	1.86	0.61	$ 19,932.72	$ 4,983.18
5:00 PM	1324	804	1504	2.85	0.94	$ 32,192.62	$ 8,048.15
6:00 PM	1009	804	1709	3.24	1.06	$ 27,877.49	$ 6,969.37
7:00 PM	698	804	1603	3.04	1.00	$ 18,088.79	$ 4,522.20
8:00 PM	516	804	1315	2.49	0.82	$ 10,969.73	$ 2,742.43
9:00 PM	352	804	863	1.63	0.54	$ 4,911.05	$ 1,227.76
10:00 PM	202	804	261	0.49	0.16	$ 852.34	$ 213.08
11:00 PM	94	804	0				
						$129,387	

Overcapacity

SR 2 Westbound @Milltown Rd Weekend

SR 2 EB Weekend	2 -> 1 Lanes			Vehicle queue	Avg Delay	HOURLY RUC	15-MIN RUC
	Volume	Capacity	Over Cap	Miles	Hours		
12:00 AM	69	804	0				
1:00 AM	36	804	0				
2:00 AM	15	804	0				
3:00 AM	7	804	0				
4:00 AM	7	804	0				
5:00 AM	19	804	0				
6:00 AM	64	804	0				
7:00 AM	154	804	0				
8:00 AM	292	804	0				
9:00 AM	471	804	0				
10:00 AM	636	804	0				
11:00 AM	791	804	0				
12:00 PM	910	804	106	0.20	0.07	$ 1,559.44	$ 389.86
1:00 PM	948	804	250	0.47	0.16	$ 3,831.50	$ 957.88
2:00 PM	920	804	366	0.69	0.23	$ 5,443.64	$ 1,360.91
3:00 PM	840	804	402	0.76	0.25	$ 5,459.16	$ 1,364.79
4:00 PM	803	804	401	0.76	0.25	$ 5,205.72	$ 1,301.43
5:00 PM	744	804	341	0.65	0.21	$ 4,101.55	$ 1,025.39
6:00 PM	651	804	188	0.36	0.12	$ 1,978.61	$ 494.65
7:00 PM	516	804	0				
8:00 PM	413	804	0				
9:00 PM	292	804	0				
10:00 PM	192	804	0				
11:00 PM	97	804	0				
						$27,580	

Overcapacity

SR 2 Eastbound @ Brewster Dr Weekday

SR 2 EB Weekday	2 -> 1 Lanes			Vehicle queue	Avg Delay	HOURLY RUC	15-MIN RUC
	Volume	Capacity	Over Cap	Miles	Hours		
12:00 AM	35	804	0				
1:00 AM	17	804	0				
2:00 AM	9	804	0				
3:00 AM	6	804	0				
4:00 AM	26	804	0				
5:00 AM	129	804	0				
6:00 AM	503	804	0				
7:00 AM	937	804	133	0.25	0.08	$ 2,014.71	$ 503.68
8:00 AM	949	804	278	0.53	0.17	$ 4,265.12	$ 1,066.28
9:00 AM	739	804	213	0.40	0.13	$ 2,544.75	$ 636.19
10:00 AM	684	804	93	0.18	0.06	$ 1,028.39	$ 257.10
11:00 AM	700	804	0				
12:00 PM	834	804	30	0.06	0.02	$ 404.49	$ 101.12
1:00 PM	835	804	61	0.12	0.04	$ 823.45	$ 205.86
2:00 PM	887	804	144	0.27	0.09	$ 2,064.94	$ 516.23
3:00 PM	946	804	286	0.54	0.18	$ 4,373.99	$ 1,093.50
4:00 PM	1006	804	488	0.92	0.30	$ 7,936.67	$ 1,984.17
5:00 PM	1079	804	763	1.45	0.47	$ 13,309.64	$ 3,327.41
6:00 PM	860	804	819	1.55	0.51	$ 11,386.83	$ 2,846.71
7:00 PM	629	804	644	1.22	0.40	$ 6,548.73	$ 1,637.18
8:00 PM	471	804	311	0.59	0.19	$ 2,368.11	$ 592.03
9:00 PM	320	804	0				
10:00 PM	199	804	0				
11:00 PM	109	804	0				
						$59,070	

SR 2 Eastbound @ Brewster Dr Weekend

SR 2 EB Weekend	2 -> 1 Lanes			Vehicle queue	Avg Delay	HOURLY RUC	15-MIN RUC
	Volume	Capacity	Over Cap	Miles	Hours		
12:00 AM	69	804	0				
1:00 AM	49	804	0				
2:00 AM	20	804	0				
3:00 AM	8	804	0				
4:00 AM	8	804	0				
5:00 AM	26	804	0				
6:00 AM	133	804	0				
7:00 AM	188	804	0				
8:00 AM	359	804	0				
9:00 AM	552	804	0				
10:00 AM	718	804	0				
11:00 AM	825	804	21	0.04	0.01	$ 280.09	$ 70.02
12:00 PM	958	804	175	0.33	0.11	$ 2,710.34	$ 677.59
1:00 PM	926	804	297	0.56	0.18	$ 4,446.19	$ 1,111.55
2:00 PM	878	804	371	0.70	0.23	$ 5,266.10	$ 1,316.52
3:00 PM	819	804	386	0.73	0.24	$ 5,110.83	$ 1,277.71
4:00 PM	761	804	343	0.65	0.21	$ 4,219.87	$ 1,054.97
5:00 PM	699	804	238	0.45	0.15	$ 2,689.52	$ 672.38
6:00 PM	594	804	28	0.05	0.02	$ 268.88	$ 67.22
7:00 PM	483	804	0				
8:00 PM	389	804	0				
9:00 PM	273	804	0				
10:00 PM	178	804	0				
11:00 PM	100	804	0				
						$24,992	

SR 2 Westbound @ Brewster Dr Weekday

SR 2 WB Weekday	2 -> 1 Lanes			Vehicle queue	Avg Delay	HOURLY RUC	15-MIN RUC
	Volume	Capacity	Over Cap	Miles	Hours		
12:00 AM	34	804	0				
1:00 AM	13	804	0				
2:00 AM	8	804	0				
3:00 AM	9	804	0				
4:00 AM	44	804	0				
5:00 AM	148	804	0				
6:00 AM	366	804	0				
7:00 AM	820	804	16	0.03	0.01	$ 212.11	$ 53.03
8:00 AM	869	804	81	0.15	0.05	$ 1,137.96	$ 284.49
9:00 AM	682	804	0				
10:00 AM	665	804	0				
11:00 AM	724	804	0				
12:00 PM	859	804	55	0.10	0.03	$ 763.79	$ 190.95
1:00 PM	879	804	130	0.25	0.08	$ 1,847.37	$ 461.84
2:00 PM	1039	804	365	0.69	0.23	$ 6,130.97	$ 1,532.74
3:00 PM	1198	804	759	1.44	0.47	$ 14,700.06	$ 3,675.01
4:00 PM	1355	804	1310	2.48	0.81	$ 28,696.64	$ 7,174.16
5:00 PM	1364	804	1870	3.54	1.16	$ 41,235.99	$ 10,309.00
6:00 PM	1042	804	2108	3.99	1.31	$ 35,510.67	$ 8,877.67
7:00 PM	764	804	2068	3.92	1.29	$ 25,542.56	$ 6,385.64
8:00 PM	604	804	1868	3.54	1.16	$ 18,240.40	$ 4,560.10
9:00 PM	393	804	1457	2.76	0.91	$ 9,257.05	$ 2,314.26
10:00 PM	219	804	872	1.65	0.54	$ 3,087.32	$ 771.83
11:00 PM	121	804	189	0	0	$ 369.72	$ 92.43
						$186,363	

SR 2 Westbound @ Brewster Dr Weekend

SR 2 EB Weekend	2 -> 1 Lanes			Vehicle queue	Avg Delay	HOURLY RUC	15-MIN RUC
	Volume	Capacity	Over Cap	Miles	Hours		
12:00 AM	83	804	0				
1:00 AM	44	804	0				
2:00 AM	17	804	0				
3:00 AM	12	804	0				
4:00 AM	17	804	0				
5:00 AM	31	804	0				
6:00 AM	85	804	0				
7:00 AM	216	804	0				
8:00 AM	323	804	0				
9:00 AM	482	804	0				
10:00 AM	649	804	0				
11:00 AM	785	804	0				
12:00 PM	888	804	84	0.16	0.05	$ 1,205.90	$ 301.48
1:00 PM	913	804	193	0.37	0.12	$ 2,848.71	$ 712.18
2:00 PM	914	804	303	0.57	0.19	$ 4,477.23	$ 1,119.31
3:00 PM	896	804	395	0.75	0.25	$ 5,721.71	$ 1,430.43
4:00 PM	851	804	442	0.84	0.27	$ 6,080.96	$ 1,520.24
5:00 PM	793	804	431	0.82	0.27	$ 5,525.49	$ 1,381.37
6:00 PM	697	804	324	0.61	0.20	$ 3,650.89	$ 912.72
7:00 PM	576	804	96	0.18	0.06	$ 893.95	$ 223.49
8:00 PM	452	804	0				
9:00 PM	317	804	0				
10:00 PM	206	804	0				
11:00 PM	99	804	0				
						$30,405	

SR 2 Eastbound @ SR 72 Weekday

SR 2 EB Weekday	2 -> 1 Lanes			Vehicle queue	Avg Delay	HOURLY RUC	15-MIN RUC
	Volume	Capacity	Over Cap	Miles	Hours		
12:00 AM	22	804	0				
1:00 AM	9	804	0				
2:00 AM	5	804	0				
3:00 AM	10	804	0				
4:00 AM	55	804	0				
5:00 AM	259	804	0				
6:00 AM	677	804	0				
7:00 AM	965	804	161	0.30	0.10	$ 2,511.73	$ 627.93
8:00 AM	867	804	224	0.42	0.14	$ 3,139.70	$ 784.92
9:00 AM	696	804	116	0.22	0.07	$ 1,305.23	$ 326.31
10:00 AM	679	804	0				
11:00 AM	768	804	0				
12:00 PM	861	804	57	0.11	0.04	$ 793.41	$ 198.35
1:00 PM	897	804	150	0.28	0.09	$ 2,175.23	$ 543.81
2:00 PM	1041	804	387	0.73	0.24	$ 6,513.02	$ 1,628.25
3:00 PM	1163	804	746	1.41	0.46	$ 14,026.17	$ 3,506.54
4:00 PM	1213	804	1155	2.19	0.72	$ 22,649.74	$ 5,662.44
5:00 PM	1128	804	1479	2.80	0.92	$ 26,971.04	$ 6,742.76
6:00 PM	820	804	1495	2.83	0.93	$ 19,818.72	$ 4,954.68
7:00 PM	617	804	1308	2.48	0.81	$ 13,047.08	$ 3,261.77
8:00 PM	452	804	956	1.81	0.59	$ 6,985.81	$ 1,746.45
9:00 PM	315	804	467	0.88	0.29	$ 2,378.20	$ 594.55
10:00 PM	181	804	0				
11:00 PM	90	804	0				
						$122,315	

Overcapacity

SR 2 Eastbound @ SR 72 Weekend

SR 2 EB Weekend	2 -> 1 Lanes			Vehicle queue	Avg Delay	HOURLY RUC	15-MIN RUC
	Volume	Capacity	Over Cap	Miles	Hours		
12:00 AM	67	804	0				
1:00 AM	34	804	0				
2:00 AM	13	804	0				
3:00 AM	6	804	0				
4:00 AM	11	804	0				
5:00 AM	48	804	0				
6:00 AM	126	804	0				
7:00 AM	268	804	0				
8:00 AM	456	804	0				
9:00 AM	613	804	0				
10:00 AM	765	804	0				
11:00 AM	885	804	81	0.15	0.05	$ 1,158.91	$ 289.73
12:00 PM	938	804	215	0.41	0.13	$ 3,260.33	$ 815.08
1:00 PM	904	804	315	0.60	0.20	$ 4,603.62	$ 1,150.91
2:00 PM	877	804	388	0.73	0.24	$ 5,501.13	$ 1,375.28
3:00 PM	827	804	411	0.78	0.26	$ 5,495.00	$ 1,373.75
4:00 PM	750	804	357	0.68	0.22	$ 4,328.63	$ 1,082.16
5:00 PM	673	804	226	0.43	0.14	$ 2,458.92	$ 614.73
6:00 PM	582	804	4	0.01	0.00	$ 37.64	$ 9.41
7:00 PM	470	804	0				
8:00 PM	355	804	0				
9:00 PM	247	804	0				
10:00 PM	159	804	0				
11:00 PM	83	804	0				
						$26,844	

Overcapacity

SR 2 Westbound @ SR 72 Weekday

SR 2 WB Weekday	2 -> 1 Lanes			Vehicle queue	Avg Delay	HOURLY RUC	15-MIN RUC
	Volume	Capacity	Over Cap	Miles	Hours		
12:00 AM	14	804	0				
1:00 AM	6	804	0				
2:00 AM	5	804	0				
3:00 AM	17	804	0				
4:00 AM	82	804	0				
5:00 AM	247	804	0				
6:00 AM	562	804	0				
7:00 AM	827	804	23	0.04	0.01	$ 307.51	$ 76.88
8:00 AM	804	804	23	0.04	0.01	$ 298.95	$ 74.74
9:00 AM	637	804	0				
10:00 AM	593	804	0				
11:00 AM	660	804	0				
12:00 PM	748	804	0				
1:00 PM	751	804	0				
2:00 PM	865	804	61	0.12	0.04	$ 853.03	$ 213.26
3:00 PM	944	804	201	0.38	0.13	$ 3,067.53	$ 766.88
4:00 PM	960	804	357	0.68	0.22	$ 5,540.64	$ 1,385.16
5:00 PM	888	804	441	0.84	0.27	$ 6,331.00	$ 1,582.75
6:00 PM	741	804	378	0.72	0.24	$ 4,528.25	$ 1,132.06
7:00 PM	580	804	154	0.29	0.10	$ 1,444.01	$ 361.00
8:00 PM	417	804	0				
9:00 PM	260	804	0				
10:00 PM	135	804	0				
11:00 PM	60	804	0				
						$22,371	

Overcapacity

SR 2 Westbound @ SR 72 Weekend

SR 2 EB Weekend	2 -> 1 Lanes			Vehicle queue	Avg Delay	HOURLY RUC	15-MIN RUC
	Volume	Capacity	Over Cap	Miles	Hours		
12:00 AM	53	804	0				
1:00 AM	28	804	0				
2:00 AM	10	804	0				
3:00 AM	9	804	0				
4:00 AM	18	804	0				
5:00 AM	49	804	0				
6:00 AM	122	804	0				
7:00 AM	245	804	0				
8:00 AM	389	804	0				
9:00 AM	524	804	0				
10:00 AM	619	804	0				
11:00 AM	732	804	0				
12:00 PM	801	804	0				
1:00 PM	775	804	0				
2:00 PM	762	804	0				
3:00 PM	727	804	0				
4:00 PM	670	804	0				
5:00 PM	607	804	0				
6:00 PM	550	804	0				
7:00 PM	460	804	0				
8:00 PM	346	804	0				
9:00 PM	238	804	0				
10:00 PM	138	804	0				
11:00 PM	70	804	0				
						$0	

Overcapacity

SR 2 Eastbound @ Cleveland Ave Weekday

SR 2 EB Weekday	2 -> 1 Lanes			Vehicle queue	Avg Delay	HOURLY RUC	15-MIN RUC
	Volume	Capacity	Over Cap	Miles	Hours		
12:00 AM	18	804	0				
1:00 AM	8	804	0				
2:00 AM	4	804	0				
3:00 AM	9	804	0				
4:00 AM	43	804	0				
5:00 AM	230	804	0				
6:00 AM	590	804	0				
7:00 AM	721	804	0				
8:00 AM	657	804	0				
9:00 AM	605	804	0				
10:00 AM	640	804	0				
11:00 AM	737	804	0				
12:00 PM	786	804	0				
1:00 PM	863	804	59	0.11	0.04	$ 823.16	$ 205.79
2:00 PM	975	804	230	0.44	0.14	$ 3,625.38	$ 906.34
3:00 PM	1082	804	508	0.96	0.32	$ 8,886.11	$ 2,221.53
4:00 PM	1167	804	871	1.65	0.54	$ 16,432.72	$ 4,108.18
5:00 PM	992	804	1059	2.01	0.66	$ 16,983.54	$ 4,245.88
6:00 PM	721	804	976	1.85	0.61	$ 11,376.42	$ 2,844.10
7:00 PM	538	804	710	1.34	0.44	$ 6,175.34	$ 1,543.84
8:00 PM	388	804	294	0.56	0.18	$ 1,844.16	$ 461.04
9:00 PM	259	804	0				
10:00 PM	154	804	0				
11:00 PM	75	804	0				
						$66,147	

Overcapacity

SR 2 Eastbound @ Cleveland Ave Weekend

SR 2 EB Weekend	2 -> 1 Lanes			Vehicle queue	Avg Delay	HOURLY RUC	15-MIN RUC
	Volume	Capacity	Over Cap	Miles	Hours		
12:00 AM	66	804	0				
1:00 AM	31	804	0				
2:00 AM	11	804	0				
3:00 AM	7	804	0				
4:00 AM	11	804	0				
5:00 AM	58	804	0				
6:00 AM	146	804	0				
7:00 AM	265	804	0				
8:00 AM	449	804	0				
9:00 AM	602	804	0				
10:00 AM	737	804	0				
11:00 AM	843	804	39	0.07	0.02	$ 531.51	$ 132.88
12:00 PM	845	804	80	0.15	0.05	$ 1,092.87	$ 273.22
1:00 PM	801	804	77	0.15	0.05	$ 997.11	$ 249.28
2:00 PM	785	804	58	0.11	0.04	$ 736.07	$ 184.02
3:00 PM	776	804	30	0.06	0.02	$ 376.36	$ 94.09
4:00 PM	720	804	0				
5:00 PM	629	804	0				
6:00 PM	527	804	0				
7:00 PM	407	804	0				
8:00 PM	316	804	0				
9:00 PM	219	804	0				
10:00 PM	141	804	0				
11:00 PM	67	804	0				
						$3,734	

Overcapacity

SR 2 Westbound @ Cleveland Ave Weekday

SR 2 WB Weekday	2 -> 1 Lanes			Vehicle queue	Avg Delay	HOURLY RUC	15-MIN RUC
	Volume	Capacity	Over Cap	Miles	Hours		
12:00 AM	54	804	0				
1:00 AM	26	804	0				
2:00 AM	21	804	0				
3:00 AM	48	804	0				
4:00 AM	215	804	0				
5:00 AM	628	804	0				
6:00 AM	1135	804	331	1	0	$ 6,073.57	$ 1,518.39
7:00 AM	1446	804	973	1.84	0.61	$ 22,745.82	$ 5,686.46
8:00 AM	1299	804	1468	2.78	0.91	$ 30,828.73	$ 7,707.18
9:00 AM	1062	804	1726	3.27	1.07	$ 29,633.69	$ 7,408.42
10:00 AM	1076	804	1998	3.78	1.24	$ 34,755.88	$ 8,688.97
11:00 AM	1218	804	2412	4.57	1.50	$ 47,494.69	$ 11,873.67
12:00 PM	1297	804	2905	5.50	1.81	$ 60,912.52	$ 15,228.13
1:00 PM	1284	804	3385	6.41	2.11	$ 70,265.83	$ 17,566.46
2:00 PM	1381	804	3962	7.50	2.46	$ 88,456.27	$ 22,114.07
3:00 PM	1467	804	4625	8.76	2.88	$ 109,688.81	$ 27,422.20
4:00 PM	1542	804	5363	10.16	3.34	$ 133,694.23	$ 33,423.56
5:00 PM	1406	804	5965	11.30	3.71	$ 135,586.44	$ 33,896.61
6:00 PM	1102	804	6263	11.86	3.89	$ 111,579.52	$ 27,894.88
7:00 PM	853	804	6312	11.95	3.93	$ 87,043.53	$ 21,760.88
8:00 PM	626	804	6134	11.62	3.81	$ 62,078.12	$ 15,519.53
9:00 PM	411	804	5741	10.87	3.57	$ 38,146.07	$ 9,536.52
10:00 PM	261	804	5198	9.84	3.23	$ 21,932.96	$ 5,483.24
11:00 PM	141	804	4535	9	3	$ 10,337.53	$ 2,584.38
						$1,084,843	

Overcapacity

SR 2 Westbound @ Cleveland Ave Weekend

SR 2 EB Weekend	2 -> 1 Lanes			Vehicle queue	Avg Delay	HOURLY RUC	15-MIN RUC
	Volume	Capacity	Over Cap	Miles	Hours		
12:00 AM	152	804	0				
1:00 AM	100	804	0				
2:00 AM	43	804	0				
3:00 AM	23	804	0				
4:00 AM	57	804	0				
5:00 AM	155	804	0				
6:00 AM	305	804	0				
7:00 AM	547	804	0				
8:00 AM	835	804	31	0.06	0.02	$ 418.47	$ 104.62
9:00 AM	1044	804	271	0.51	0.17	$ 4,573.94	$ 1,143.48
10:00 AM	1180	804	647	1.23	0.40	$ 12,342.60	$ 3,085.65
11:00 AM	1316	804	1159	2.20	0.72	$ 24,658.11	$ 6,164.53
12:00 PM	1350	804	1705	3.23	1.06	$ 37,211.63	$ 9,302.91
1:00 PM	1281	804	2182	4.13	1.36	$ 45,188.13	$ 11,297.03
2:00 PM	1222	804	2600	4.92	1.62	$ 51,364.73	$ 12,841.18
3:00 PM	1161	804	2957	5.60	1.84	$ 55,501.41	$ 13,875.35
4:00 PM	1106	804	3259	6.17	2.03	$ 58,272.01	$ 14,568.00
5:00 PM	951	804	3406	6.45	2.12	$ 52,365.55	$ 13,091.39
6:00 PM	784	804	3386	6.41	2.11	$ 42,916.42	$ 10,729.11
7:00 PM	677	804	3259	6.17	2.03	$ 35,669.21	$ 8,917.30
8:00 PM	539	804	2994	5.67	1.86	$ 26,089.22	$ 6,522.30
9:00 PM	377	804	2567	4.86	1.60	$ 15,645.44	$ 3,911.36
10:00 PM	255	804	2018	3.82	1.25	$ 8,319.21	$ 2,079.80
11:00 PM	142	804	1356	3	1	$ 3,112.92	$ 778.23
						$470,536	

Overcapacity

Library Ave NB @ SR 273 Weekday

Library NB Weekday	2 -> 1 Lanes			Vehicle queue	Avg Delay	HOURLY RUC	15-MIN RUC
	Volume	Capacity	Over Cap	Miles	Hours		
12:00 AM	40	804	0				
1:00 AM	15	804	0				
2:00 AM	8	804	0				
3:00 AM	18	804	0				
4:00 AM	63	804	0				
5:00 AM	227	804	0				
6:00 AM	599	804	0				
7:00 AM	882	804	78	0.15	0.05	$ 1,112.20	$ 278.05
8:00 AM	866	804	140	0.27	0.09	$ 1,960.05	$ 490.01
9:00 AM	726	804	62	0.12	0.04	$ 727.69	$ 181.92
10:00 AM	700	804	0				
11:00 AM	788	804	0				
12:00 PM	887	804	83	0.16	0.05	$ 1,190.21	$ 297.55
1:00 PM	952	804	231	0.44	0.14	$ 3,555.24	$ 888.81
2:00 PM	1096	804	523	0.99	0.33	$ 9,266.86	$ 2,316.72
3:00 PM	1252	804	971	1.84	0.60	$ 19,653.69	$ 4,913.42
4:00 PM	1326	804	1493	2.83	0.93	$ 32,005.44	$ 8,001.36
5:00 PM	1186	804	1875	3.55	1.17	$ 35,950.63	$ 8,987.66
6:00 PM	876	804	1947	3.69	1.21	$ 27,573.41	$ 6,893.35
7:00 PM	669	804	1812	3.43	1.13	$ 19,597.69	$ 4,899.42
8:00 PM	504	804	1512	2.86	0.94	$ 12,319.78	$ 3,079.94
9:00 PM	351	804	1059	2.01	0.66	$ 6,009.30	$ 1,502.32
10:00 PM	205	804	460	0.87	0.29	$ 1,524.52	$ 381.13
11:00 PM	113	804	0				
						$172,447	

Library Ave NB @ SR 273 Weekend

Library NB Weekend	2 -> 1 Lanes			Vehicle queue	Avg Delay	HOURLY RUC	15-MIN RUC
	Volume	Capacity	Over Cap	Miles	Hours		
12:00 AM	92	804	0				
1:00 AM	49	804	0				
2:00 AM	18	804	0				
3:00 AM	16	804	0				
4:00 AM	25	804	0				
5:00 AM	67	804	0				
6:00 AM	167	804	0				
7:00 AM	288	804	0				
8:00 AM	452	804	0				
9:00 AM	609	804	0				
10:00 AM	778	804	0				
11:00 AM	898	804	94	0.18	0.06	$ 1,364.66	$ 341.17
12:00 PM	934	804	224	0.42	0.14	$ 3,382.33	$ 845.58
1:00 PM	928	804	348	0.66	0.22	$ 5,220.93	$ 1,305.23
2:00 PM	918	804	462	0.88	0.29	$ 6,856.54	$ 1,714.14
3:00 PM	897	804	555	1.05	0.35	$ 8,048.33	$ 2,012.08
4:00 PM	833	804	584	1.11	0.36	$ 7,864.63	$ 1,966.16
5:00 PM	772	804	552	1.05	0.34	$ 6,889.33	$ 1,722.33
6:00 PM	644	804	392	0.74	0.24	$ 4,081.24	$ 1,020.31
7:00 PM	523	804	111	0.21	0.07	$ 938.52	$ 234.63
8:00 PM	404	804	0				
9:00 PM	304	804	0				
10:00 PM	195	804	0				
11:00 PM	110	804	0				
						$44,647	