
To:	The Glebe BIA 110-858 Bank Street Ottawa, Ontario K1S 3W3	From:	Hassan Madhoun, M.Eng, P.Eng. Stantec Consulting Ltd. 400-1331 Clyde Avenue Ottawa, Ontario K2C 3G4
File:	163601122	Date:	October 7, 2019

Reference: 2018 - 2019 Glebe BIA Transportation Data Collection Summary (Final Report)

1.0 INTRODUCTION

Stantec Consulting Ltd. (Stantec) was retained by The Glebe Business Improvement Area (BIA) to assist in the development of a continuous pedestrian data collection program along the Bank Street corridor within the Glebe area of Ottawa, Ontario. This memo provides a summary review of collected pedestrian data between the months of June 2018 and May 2019.

2.0 BACKGROUND

The Glebe BIA initiated a transportation data collection program in 2017 to collect multi-modal traffic volumes at several intersections on Bank Street within the Glebe. The aim of the program was to quantify traffic activity in the area, and to identify seasonal and time of day trends to better inform the BIA and its members.

2017 pedestrian and vehicular data collection was arranged by the BIA through the City of Ottawa using the Miovision system. Intersection data was collected at six key intersections over several dates in 2017. The results of the 2017 transportation survey were reviewed by Stantec and summarized in the **2017 Glebe BIA Transportation Data Collection Summary** report (January 12, 2018).

In 2018, a follow-up data collection program was initiated by the Glebe BIA using the Pyro-Box automated pedestrian counting data collection system. The data collection program was facilitated through an equipment leasing arrangement with Eco-Counter.

3.0 DATA COLLECTION OVERVIEW

Pedestrian volumes and travel direction were collected using the Pyro-Box system which was installed at five (5) locations: 3 counters along the east side and 2 counters along the west side of Bank Street. Anonymous pedestrian volumes were continuously collected at mid-block locations and wirelessly uploaded to the Eco-Vision online platform. It is noted that a sixth data collection unit was installed at Rosebery Avenue and Powell Avenue, however the data collected at this location was determined to be incorrect. As a result, data from the Rosebery/Powell was not included as part of this summary report.

The transportation data collection program included the following study area locations:

1. Regent Street / Fifth Avenue;
2. Second Avenue / Third Avenue;
3. Holmwood Avenue / Marché Way;
4. Fifth Avenue / Thornton Avenue;
5. First Avenue / Second Avenue;

Reference: 2018 - 2019 Glebe BIA Transportation Data Collection Summary (Final Report)

The following screenlines were also developed to analyze the northbound and southbound pedestrian travel direction along bank street:

- Screenline 1: Holmwood**
- Screenline 2: Fifth**
- Screenline 3: Second**

Figure 1 illustrates the location of deployed Pyro-box counters as well as data screenlines.

Figure 1 – Bank Street Pedestrian Counter Locations and Screenlines



Reference: 2018 - 2019 Glebe BIA Transportation Data Collection Summary (Final Report)

4.0 PEDETRIAN DATA SUMMARIES

Anonymous and automated pedestrian volumes were collected for the period between June 21, 2018 and May 19, 2019 to capture pedestrian activity along bank street. The data collected entailed directional pedestrian volume at each count station for a 24-hour period.

Pedestrian demand graphs were developed from the data obtained from the five (5) collection counters on Bank Street for the period June 21, 2018, to May 19, 2019.

This data was used to aggregate the following:

1. Daily Pedestrian Volumes
2. Hourly Pedestrian Volume Profiles:
3. Variations in Pedestrian Activity:
 - a. Weather Events
 - b. Statutory Holidays
 - c. Special Events
 - d. Bank Street Programming (CityFolk/Marvest, Christmas Market, etc)

4.1 Daily Pedestrian Volumes

Daily pedestrian traffic volumes were tracked throughout the data collection period. Screenline daily average volumes were developed for weekday and weekend periods.

Table 1 and **Figure 2** provide a summary of average daily pedestrian volumes.

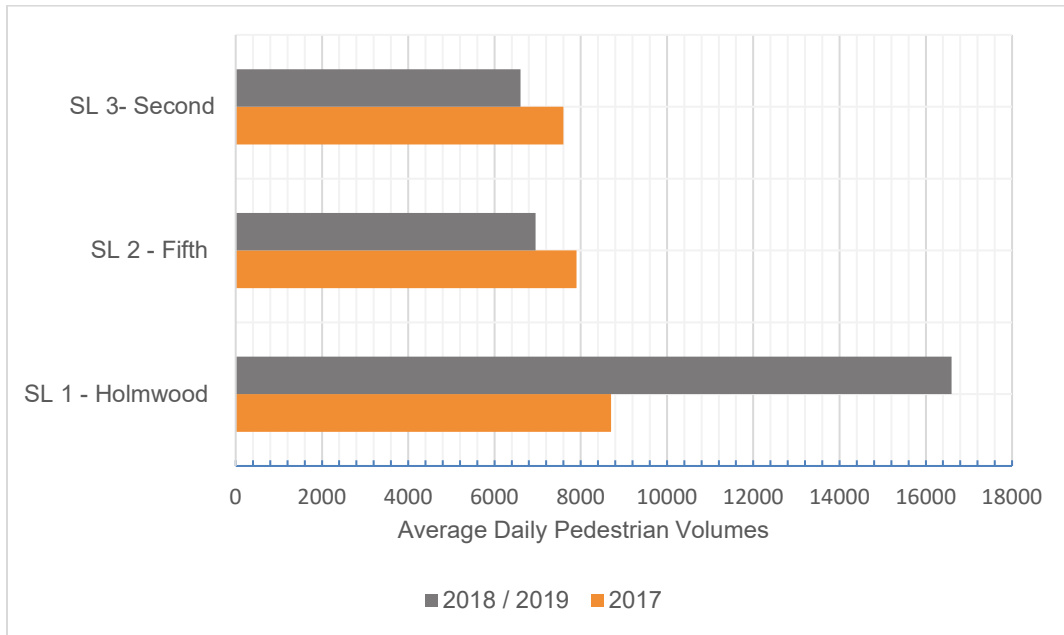
Table 1 – Average Daily Pedestrian Volumes

Screenlines	Average Daily Pedestrian Volumes		% Change
	2018 / 2019	2017	
SL 1: Holmwood Avenue	16,600	8,700	+90%
SL 2: Fifth Avenue	6,950	7,900	-12%
SL 3: Second Avenue	6,600	7,600	-13%
Corridor Average	10,050	8,050	+25%

* Range of 2017 pedestrian volumes observed between Pretoria Ave and Glebe Ave
 ** Corridor Averages provided for Bank Street between First Avenue and Marche Way

Reference: 2018 - 2019 Glebe BIA Transportation Data Collection Summary (Final Report)

Figure 2 – Average Daily Pedestrian Volumes



Daily pedestrian volumes were also averaged for non-event weekdays, event weekdays, and weekend periods.

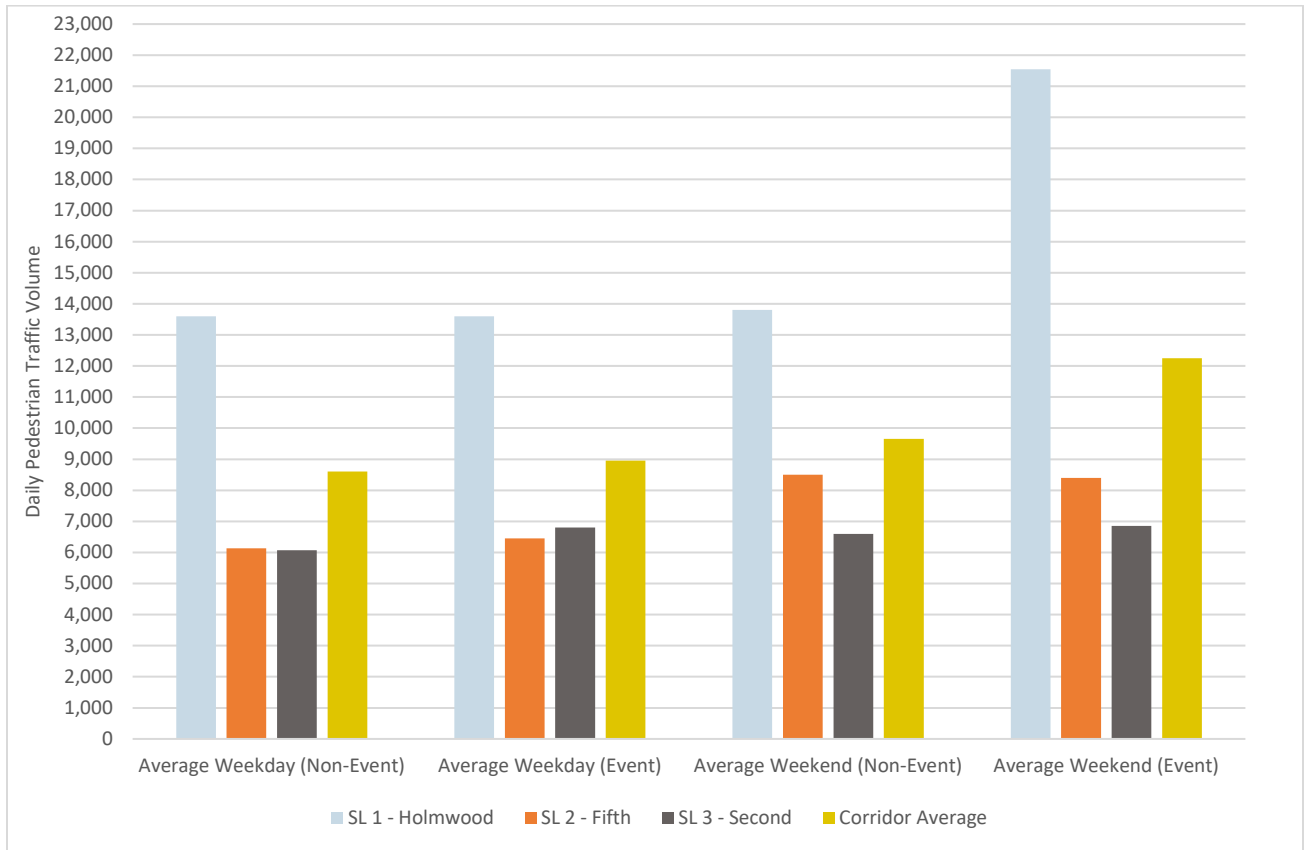
Table 2 and **Figure 3** provides a summary of average daily pedestrian screenline volumes under weekday (non-event and event) and weekend time periods.

Table 2 – 2018 / 2019 Daily Pedestrian Volumes

Screenlines	Average Daily Pedestrian Volumes				
	Period Average	Weekday (Non-Event)	Weekday (Event)	Weekend (Non-Event)	Weekend (Event)
SL 1: Holmwood Avenue	16,600	13,600	13,600	13,800	21,550
SL 2: Fifth Avenue	6,950	6,130	6,450	8,500	8,400
SL 3: Second Avenue	6,600	6,075	6,800	6,600	6,850
Corridor Average	10,050	8,600	8,950	9,650	12,250

Reference: 2018 - 2019 Glebe BIA Transportation Data Collection Summary (Final Report)

Figure 3 - Pedestrian Volumes for Weekdays and Weekends along Bank Street



Detailed daily pedestrian volumes charts are provided in **Appendix A**.

4.2 Hourly Pedestrian Volume Profiles

Hourly pedestrian traffic volumes were tracked throughout the data collection period. Pedestrian demand graphs were developed for the Bank Street corridor. Graphs visualize pedestrian volumes over the course of

Bank Street Pedestrian Volume profiles are summarized in **Appendix B**.

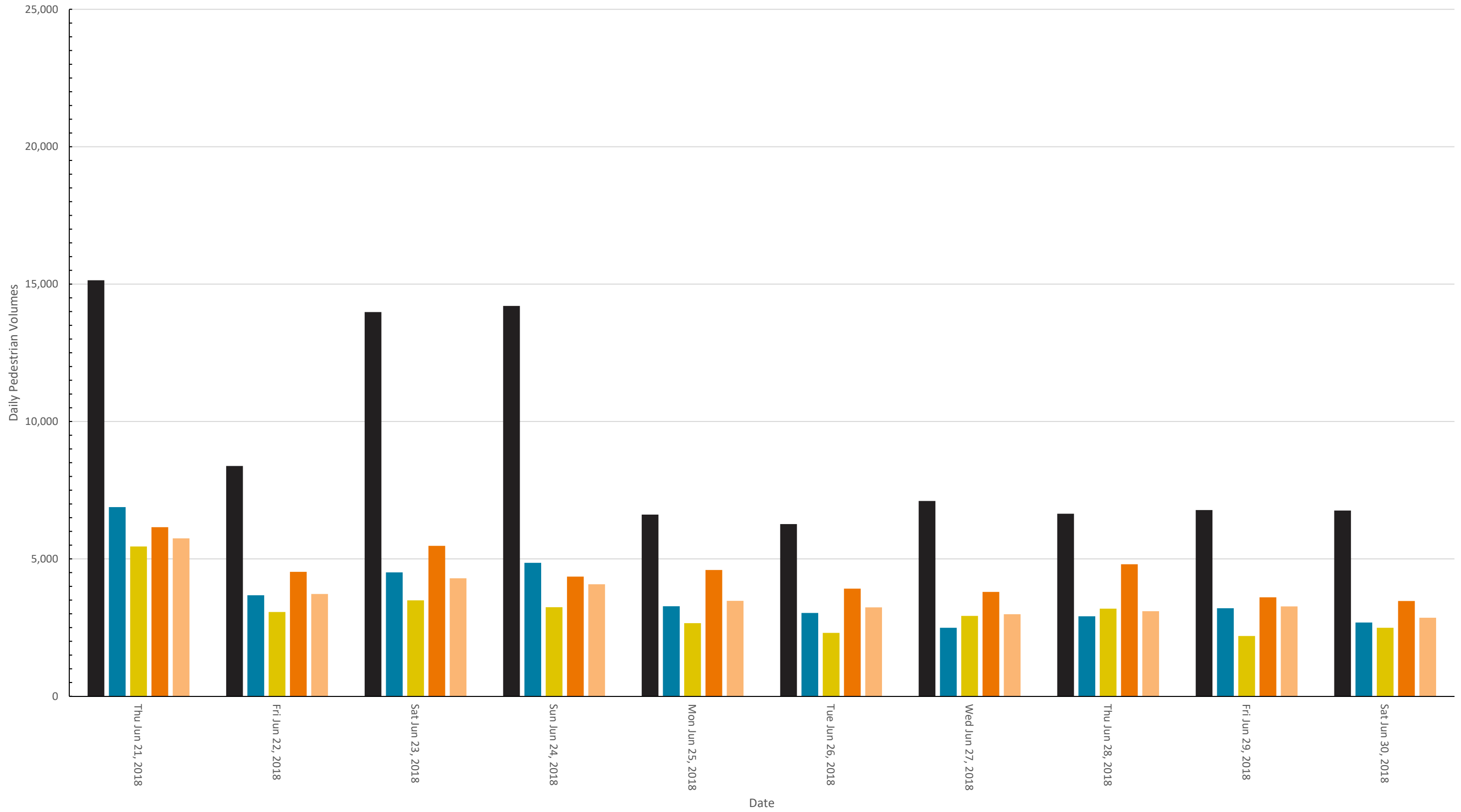
4.3 Variations in Pedestrian Activity

Hourly pedestrian traffic volumes were tracked to assess variations due to special events, Bank Street programming (such as Marvest), and extreme cases of weather. These graphs are provided in **Appendix C**.

APPENDIX A

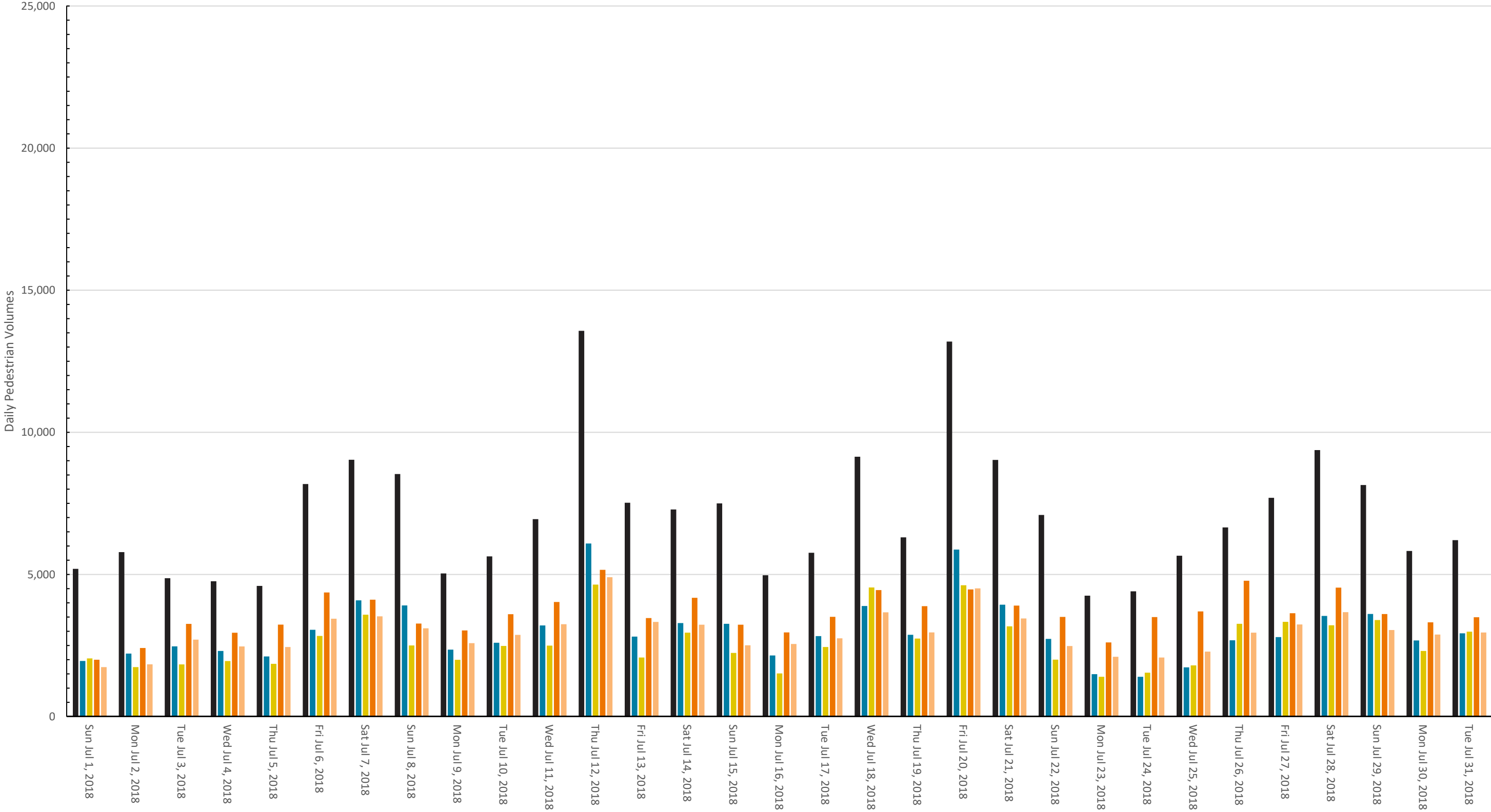
Daily Pedestrian Volumes

June 2018



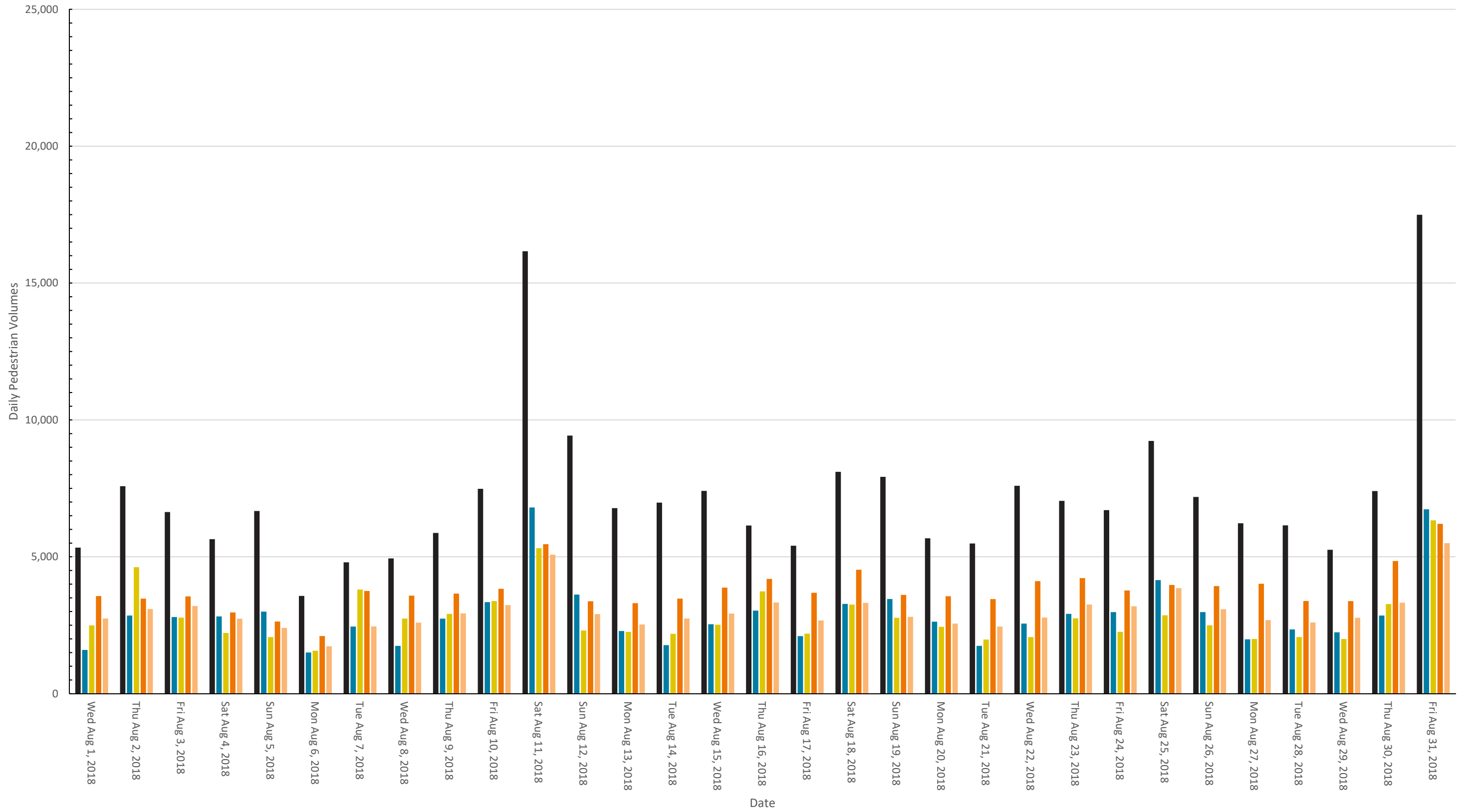
■ Holmwood/ Marche (East) ■ Regent/ Clarey (East) ■ Fifth/Thornton (West) ■ Second/Third (West) ■ First/Second (East)

July 2018



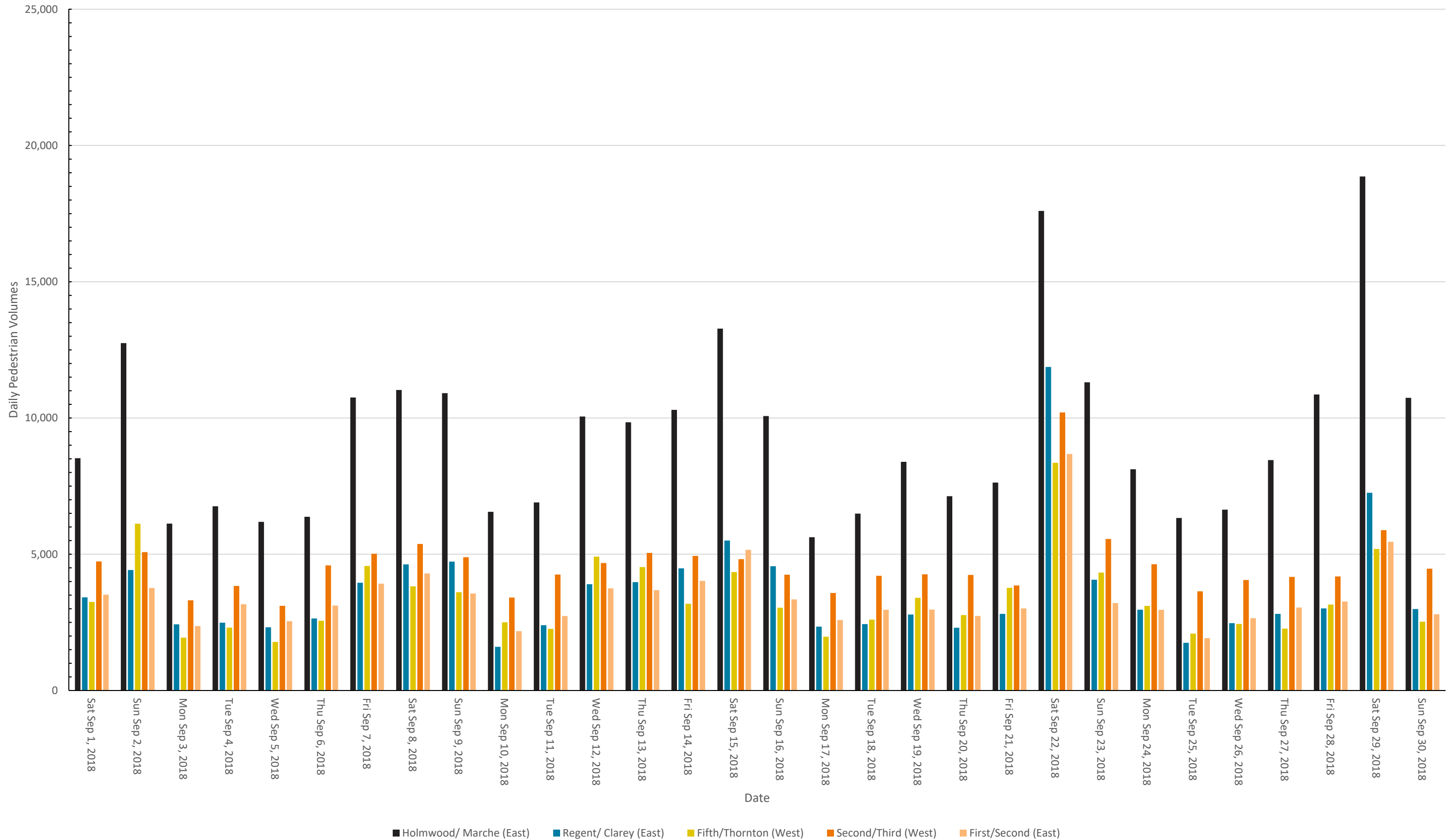
■ Holmwood/ Marche (East) ■ Regent/ Clarey (East) ■ Fifth/Thornton (West) ■ Second/Third (West) ■ First/Second (East)

August 2018

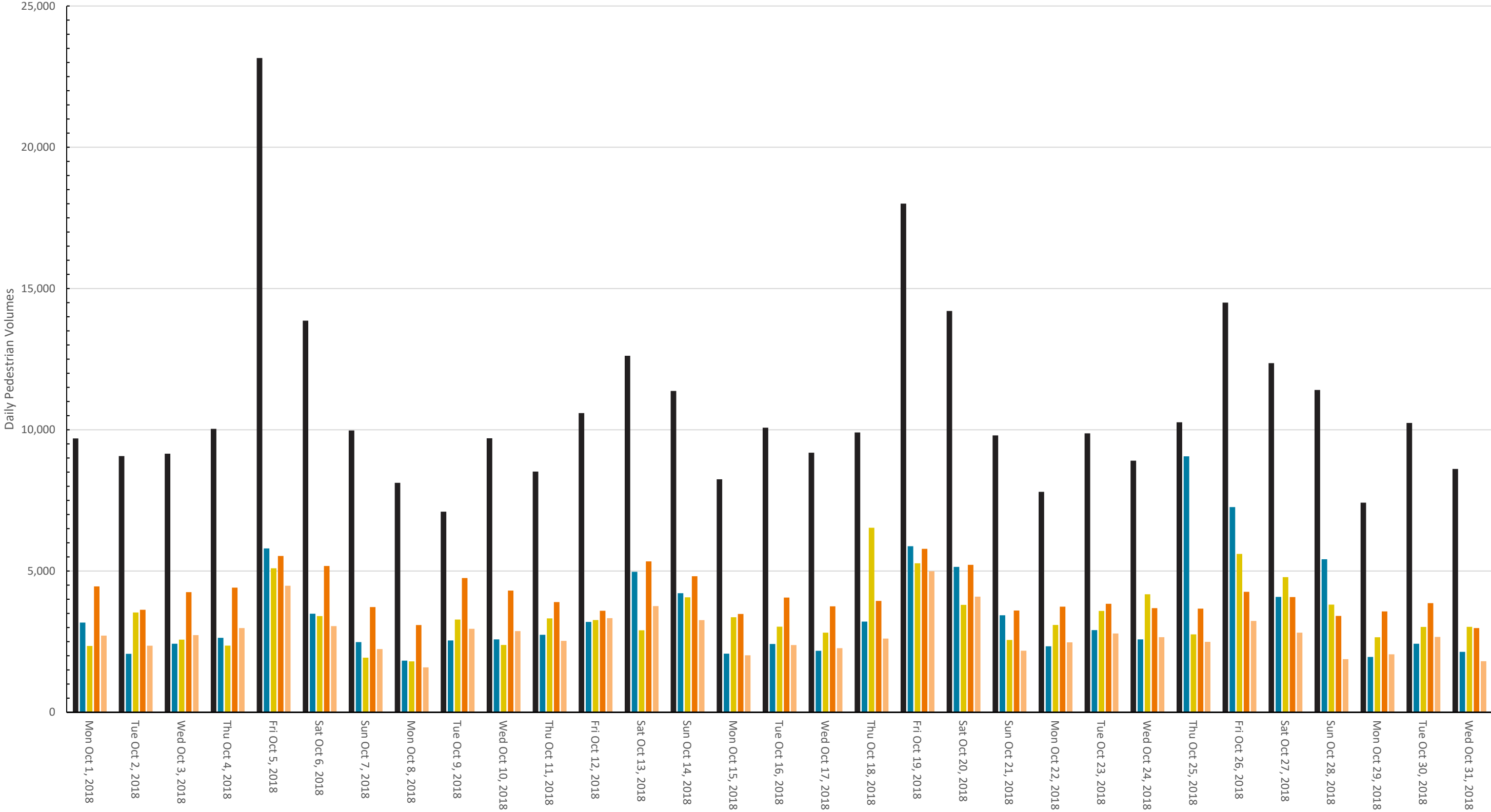


■ Holmwood/ Marche (East)
 ■ Regent/ Clarey (East)
 ■ Fifth/Thornton (West)
 ■ Second/Third (West)
 ■ First/Second (East)

September 2018

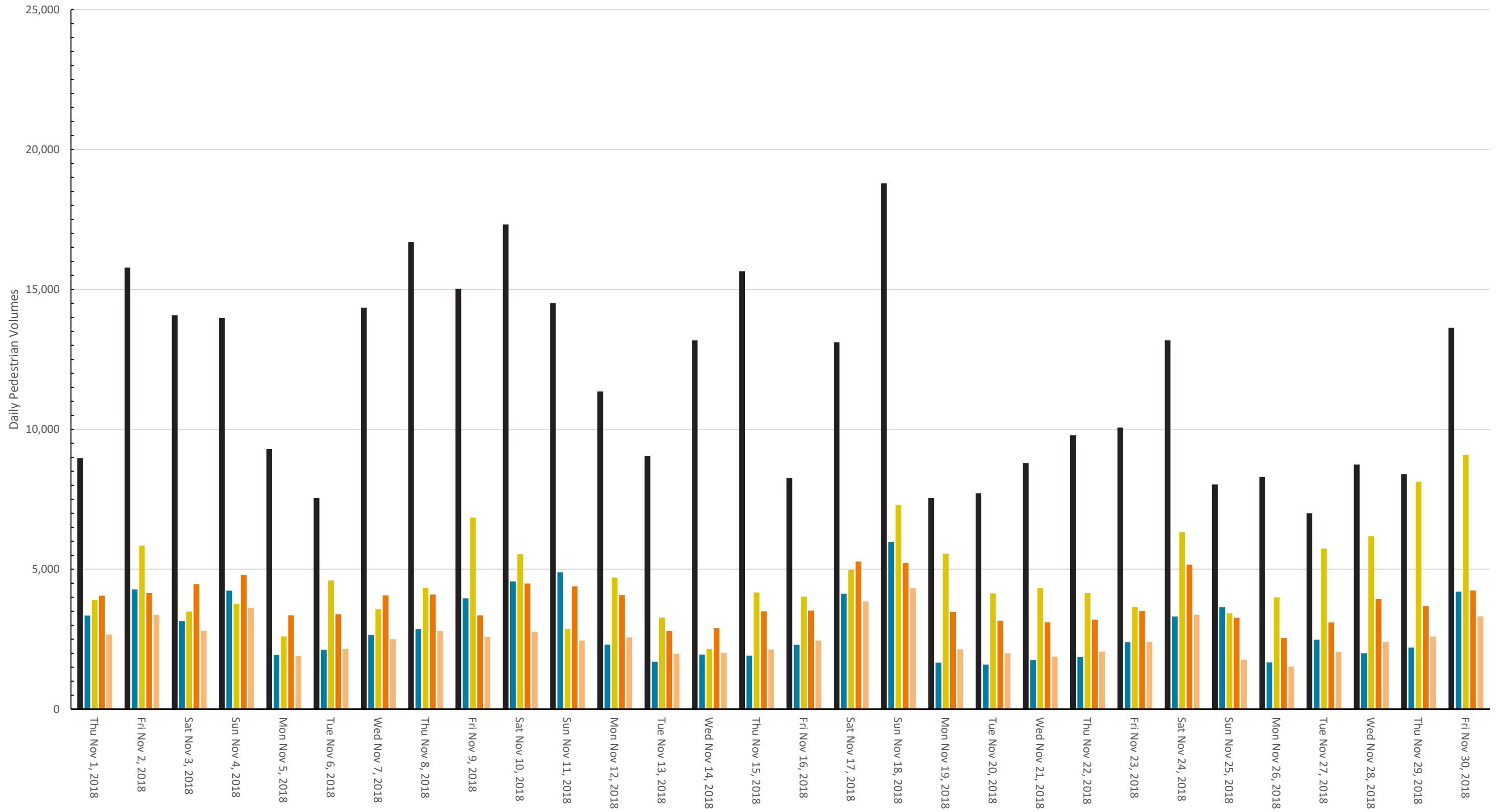


October 2018



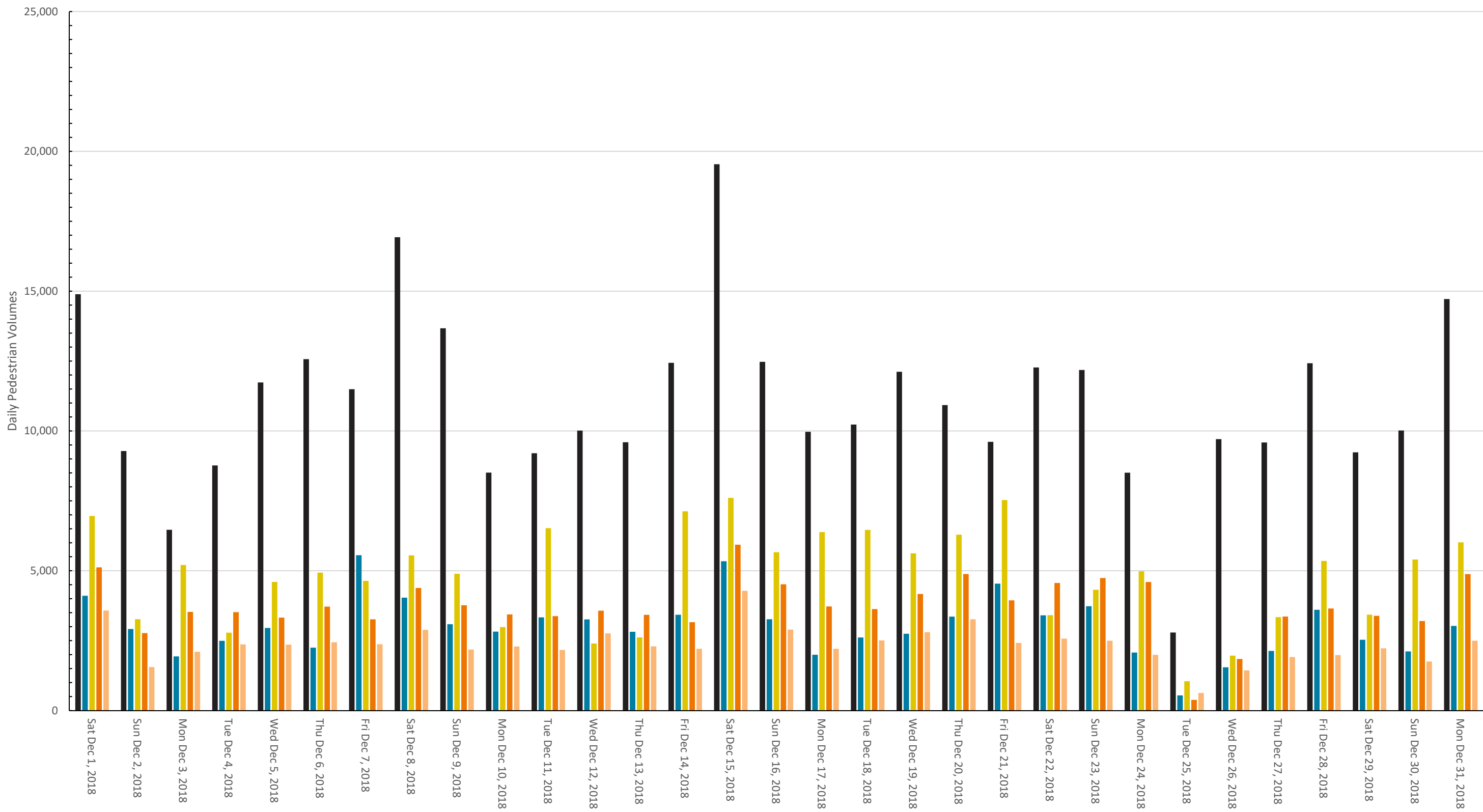
■ Holmwood/ Marche (East) ■ Regent/ Clarey (East) ■ Fifth/Thornton (West) ■ Second/Third (West) ■ First/Second (East)

November 2018



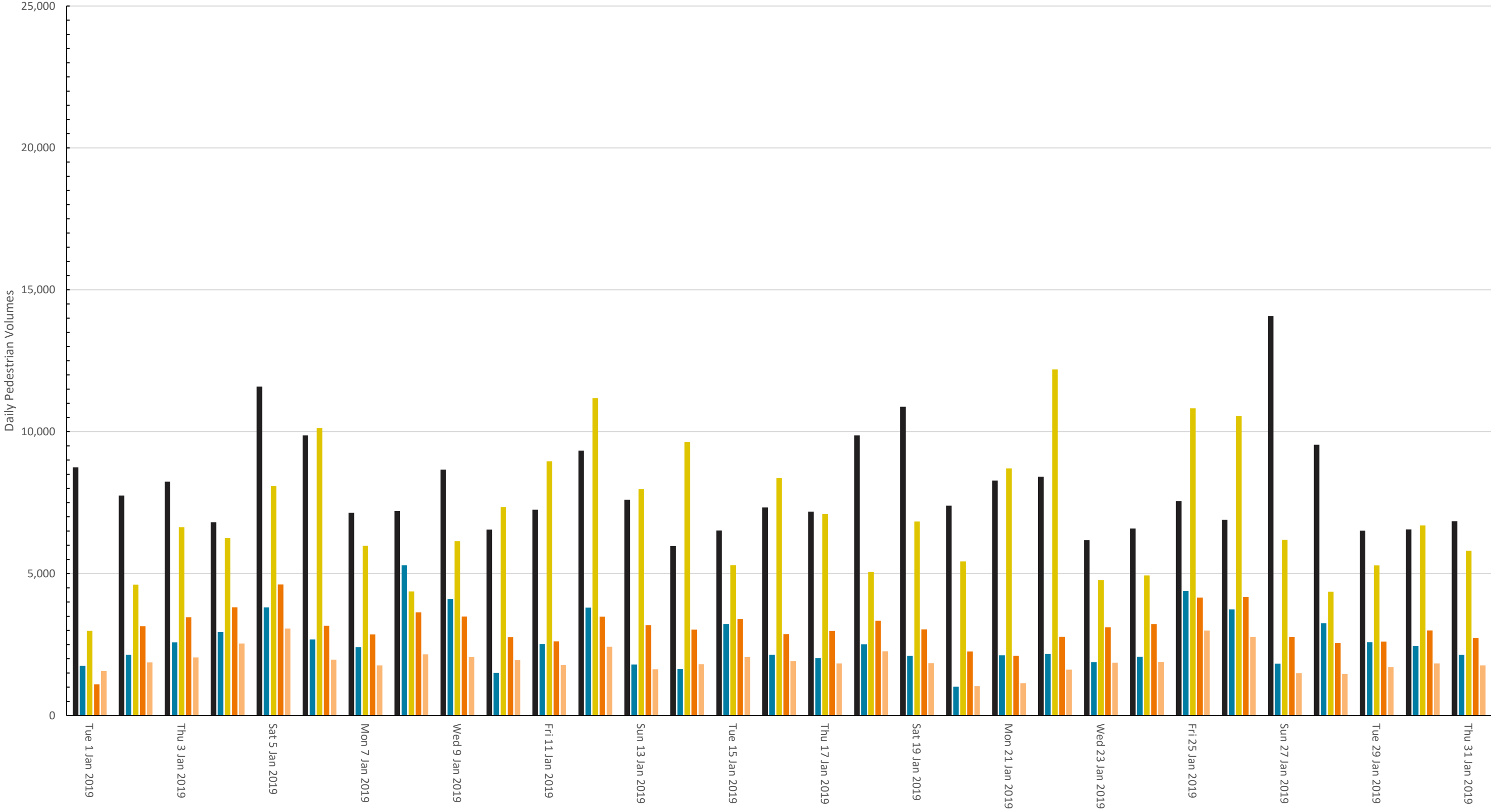
■ Holmwood/ Marche (East)
 ■ Regent/ Clarey (East)
 ■ Fifth/Thornton (West)
 ■ Second/Third (West)
 ■ First/Second (East)

December 2018



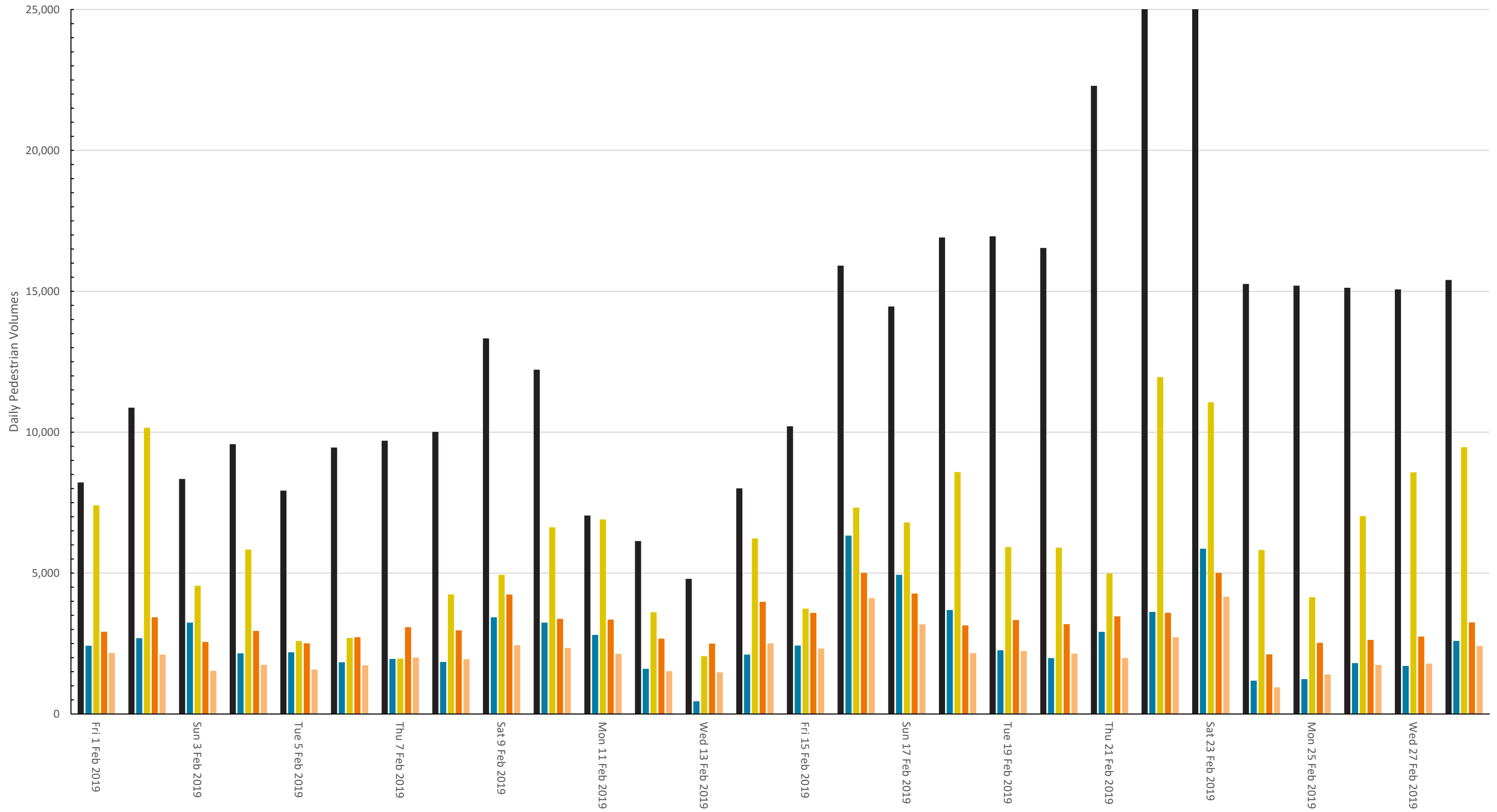
■ Holmwood/ Marche (East)
 ■ Regent/ Clarey (East)
 ■ Fifth/Thornton (West)
 ■ Second/Third (West)
 ■ First/Second (East)

January 2019



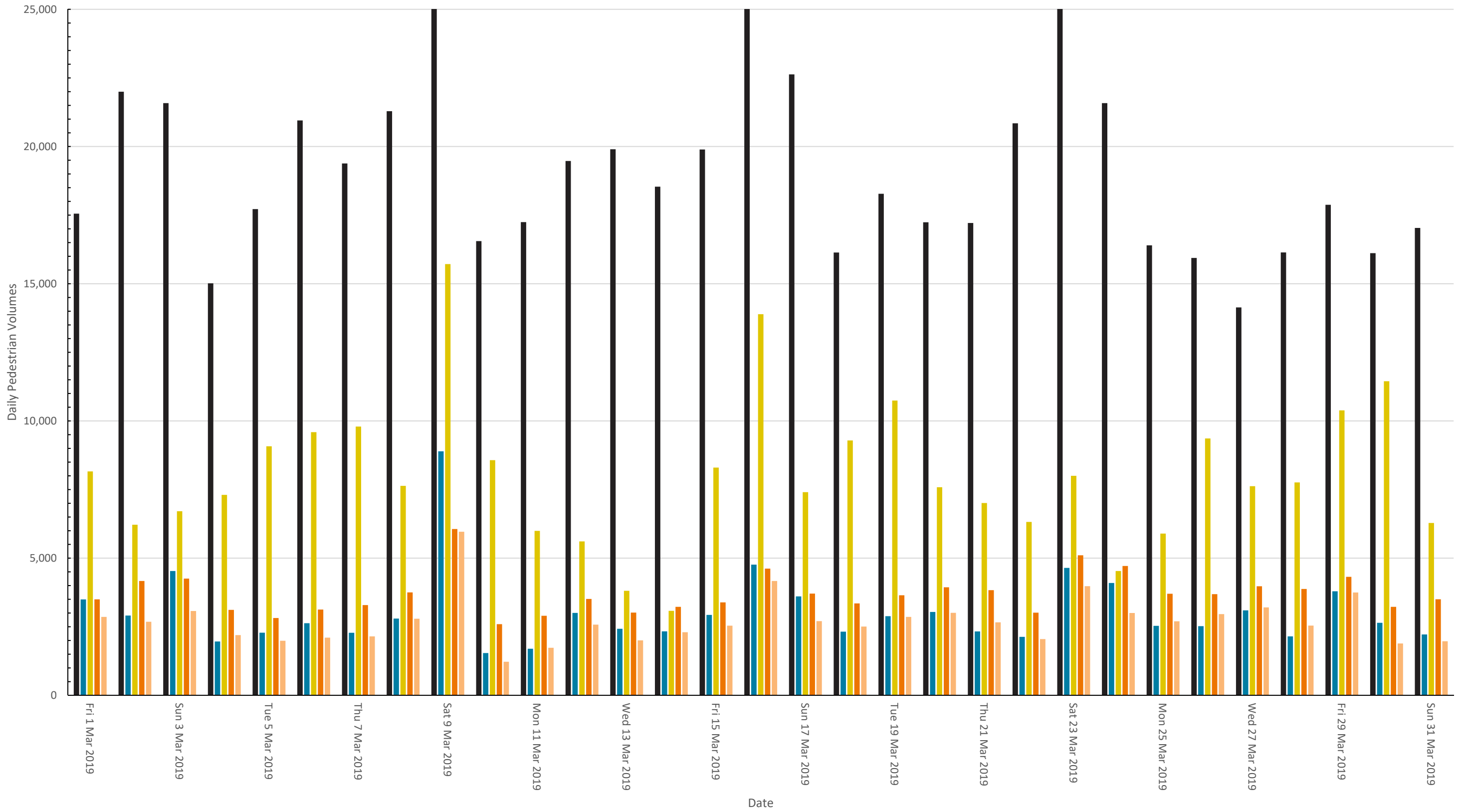
■ Holmwood/ Marche (East) ■ Regent/ Clarey (East) ■ Fifth/Thornton (West) ■ Second/Third (West) ■ First/Second (East)

February 2019



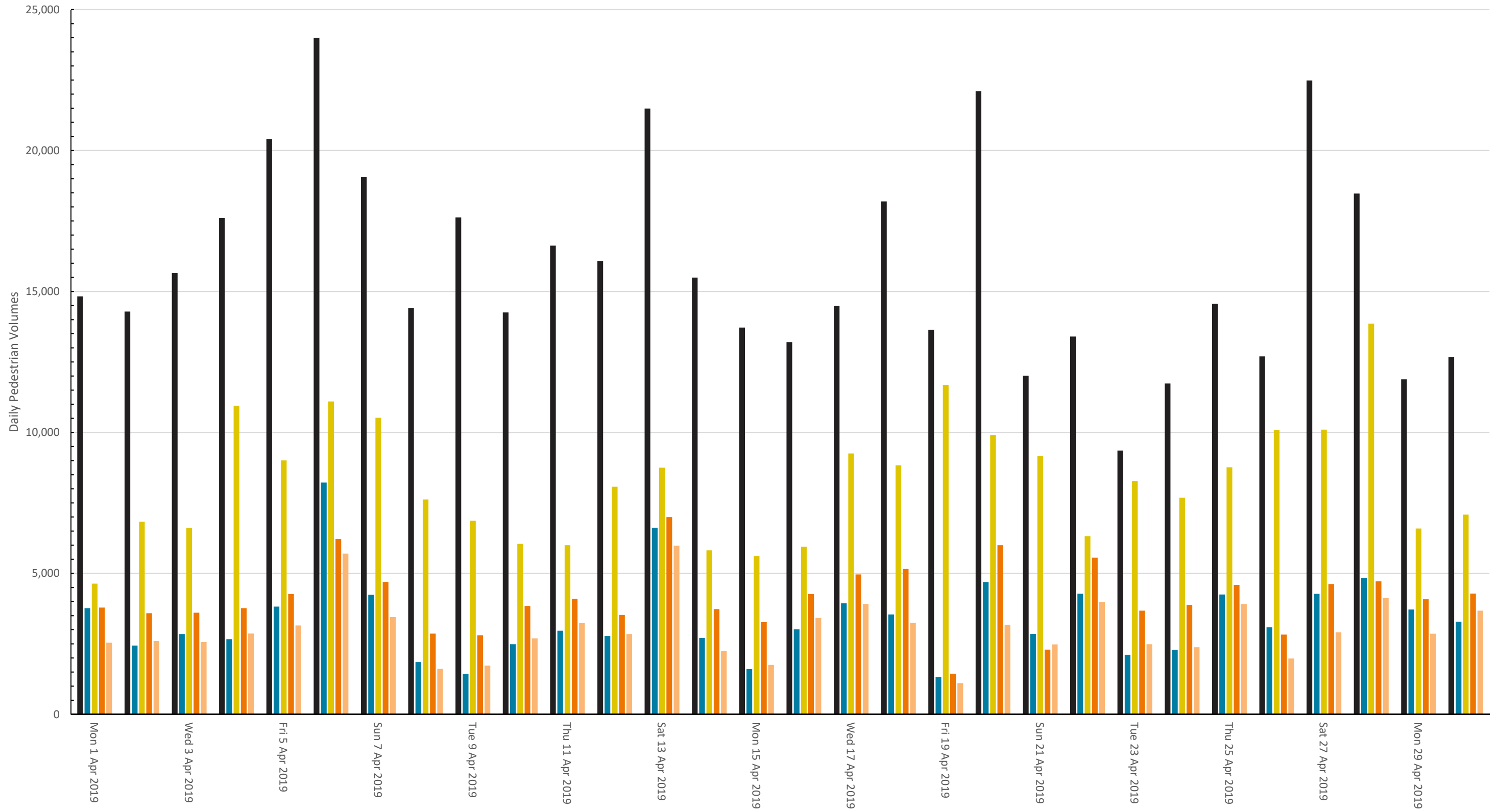
■ Holmwood/ Marche (East)
 ■ Regent/ Clarey (East)
 ■ Fifth/Thornton (West)
 ■ Second/Third (West)
 ■ First/Second (East)

March 2019



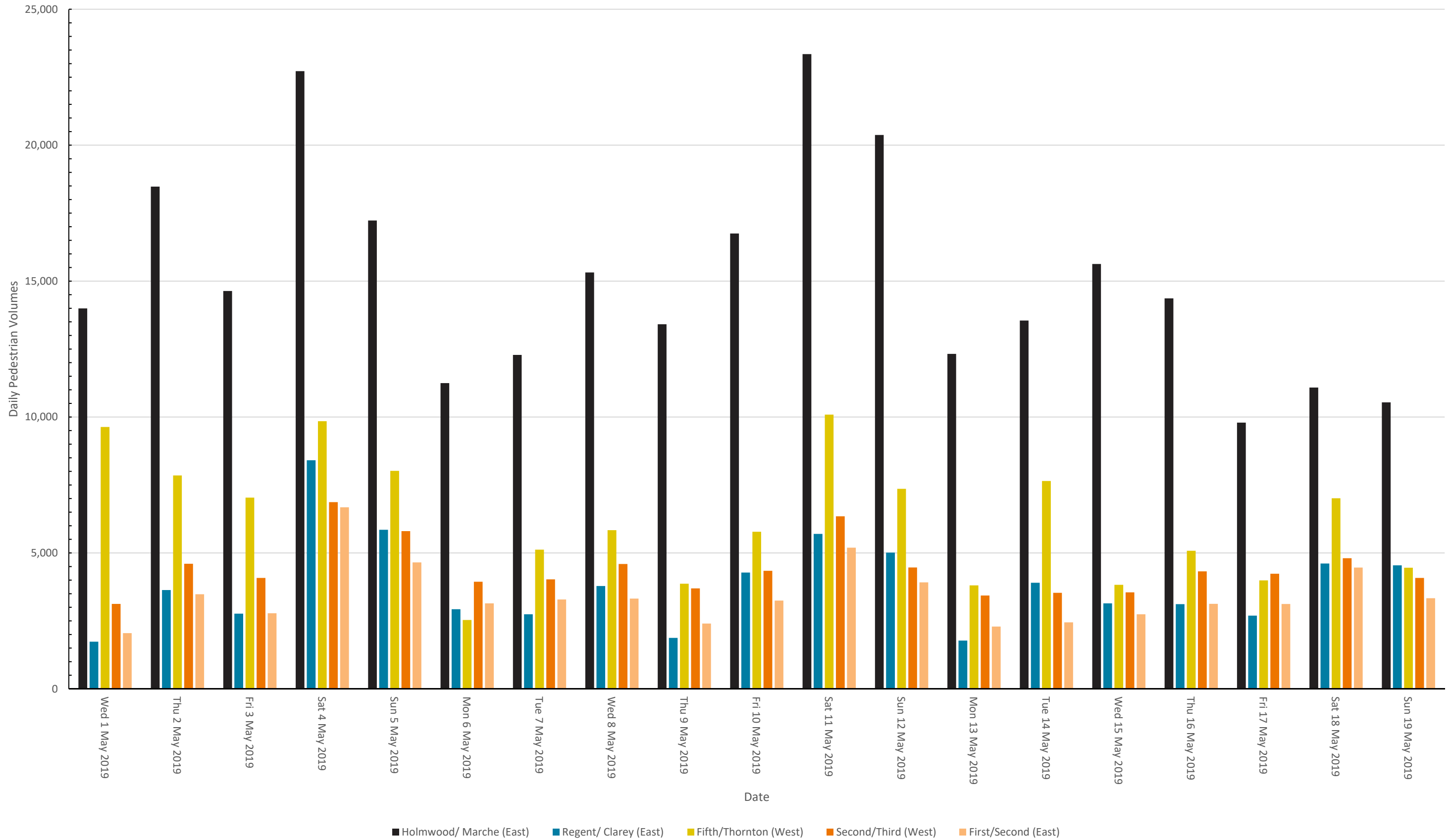
■ Holmwood/ Marche (East)
 ■ Regent/ Clarey (East)
 ■ Fifth/Thornton (West)
 ■ Second/Third (West)
 ■ First/Second (East)

April 2019



■ Holmwood/ Marche (East) ■ Regent/ Clarey (East) ■ Fifth/Thornton (West) ■ Second/Third (West) ■ First/Second (East)

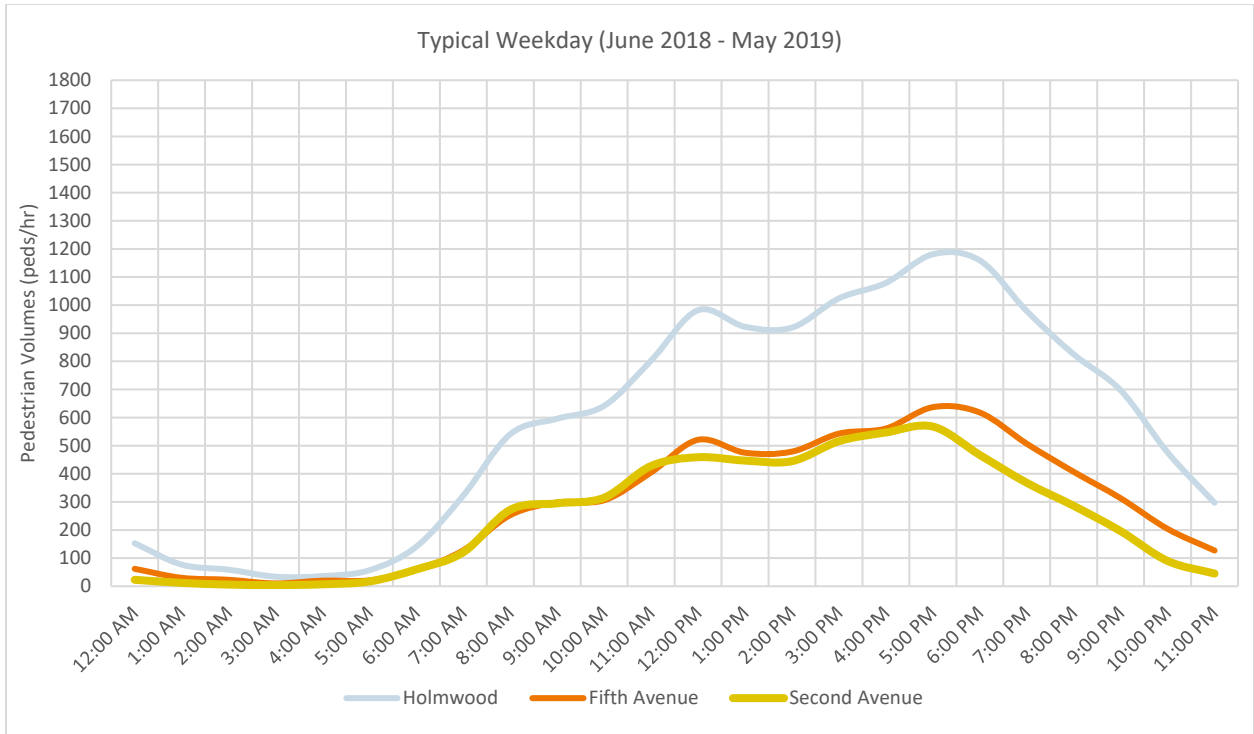
May 2019



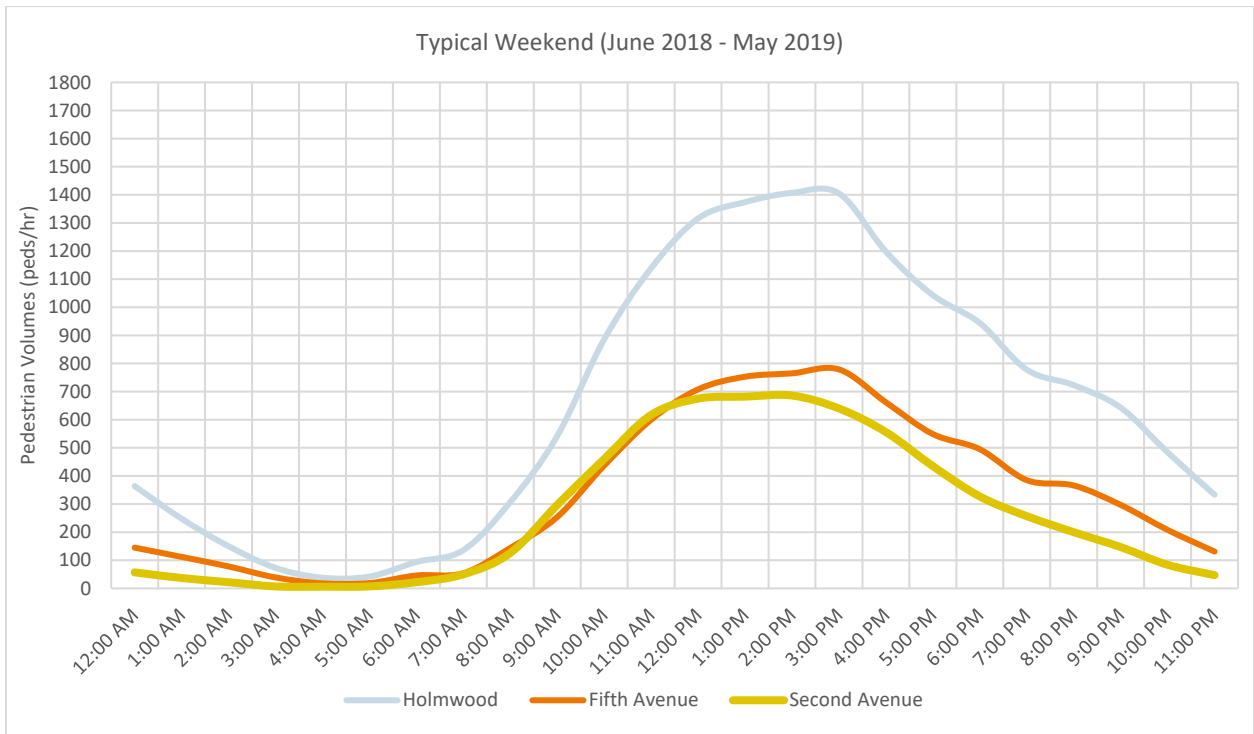
APPENDIX B

Hourly Pedestrian Volume Profiles

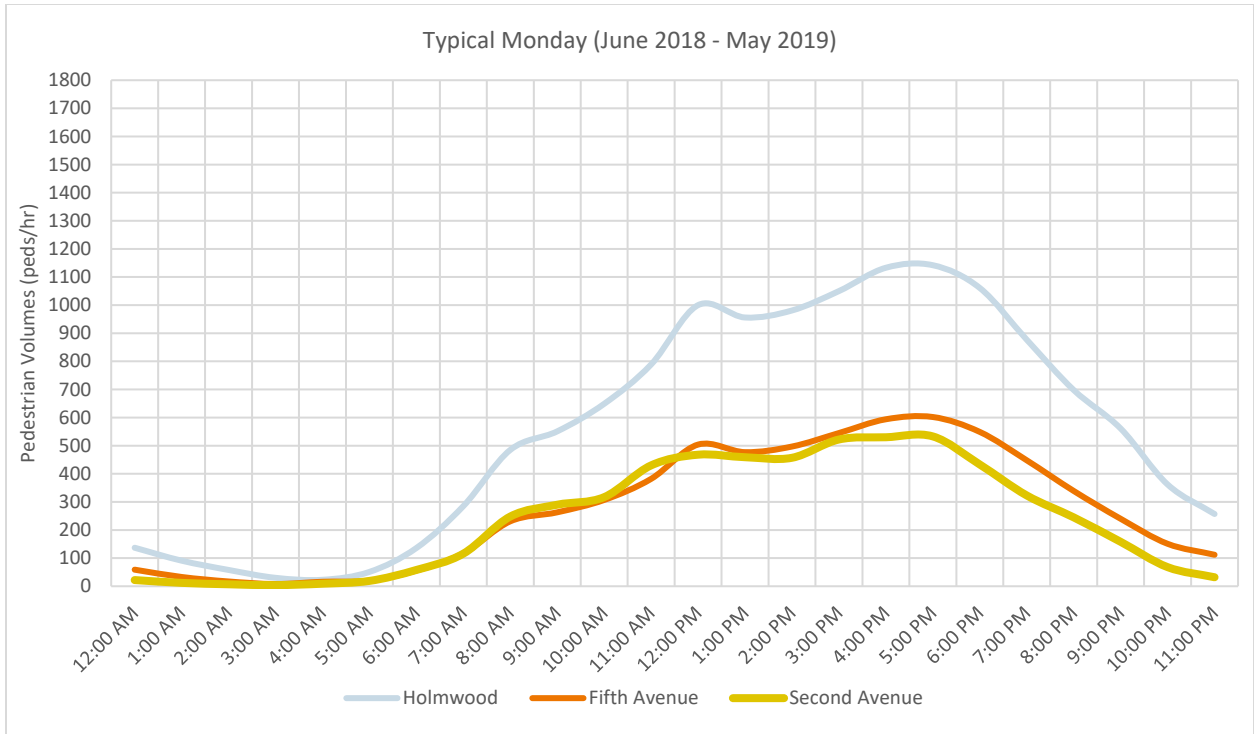
Typical Weekday (Non-Event)



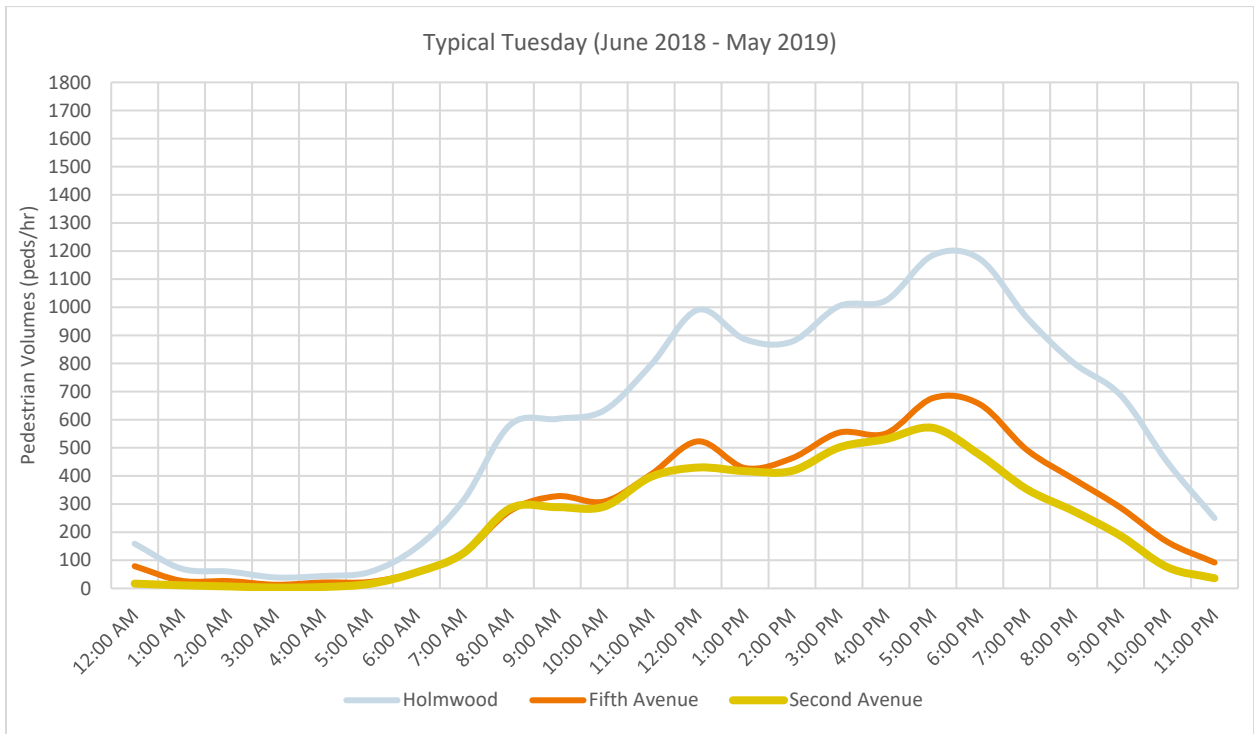
Typical Weekend (Non-Event)



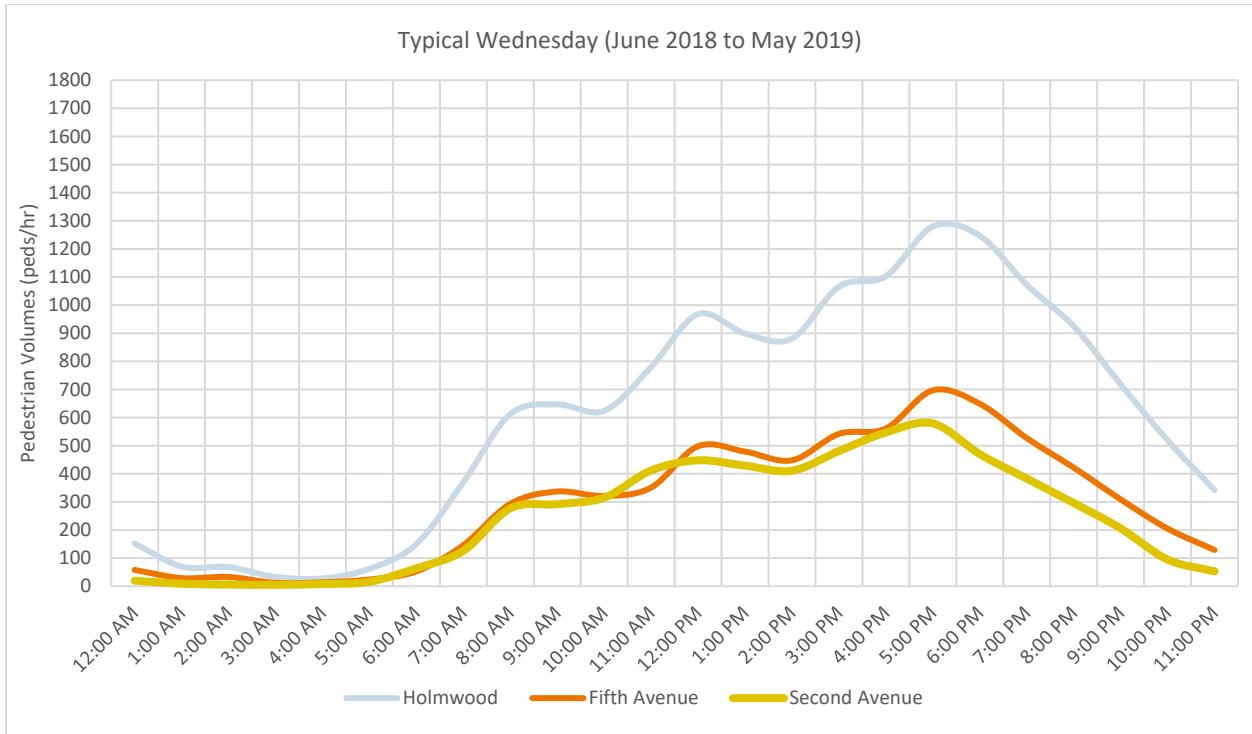
Typical Monday (Non-Event)



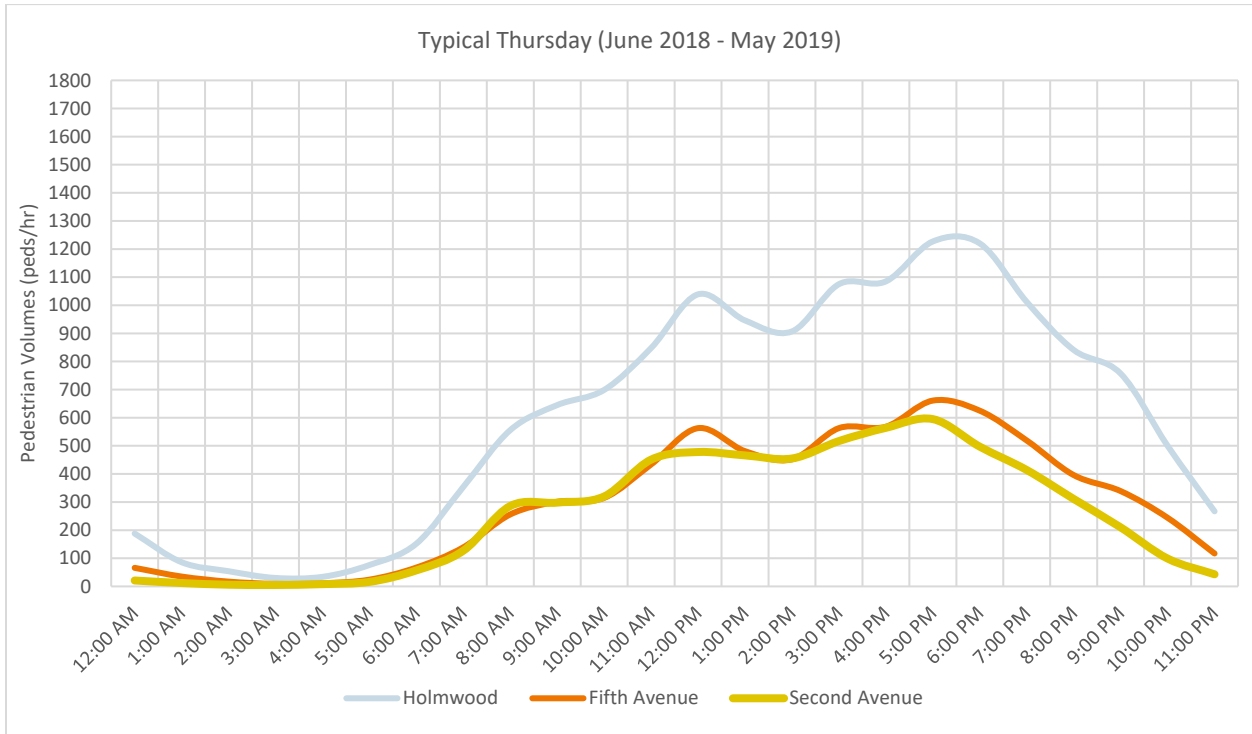
Typical Tuesday (Non-Event)



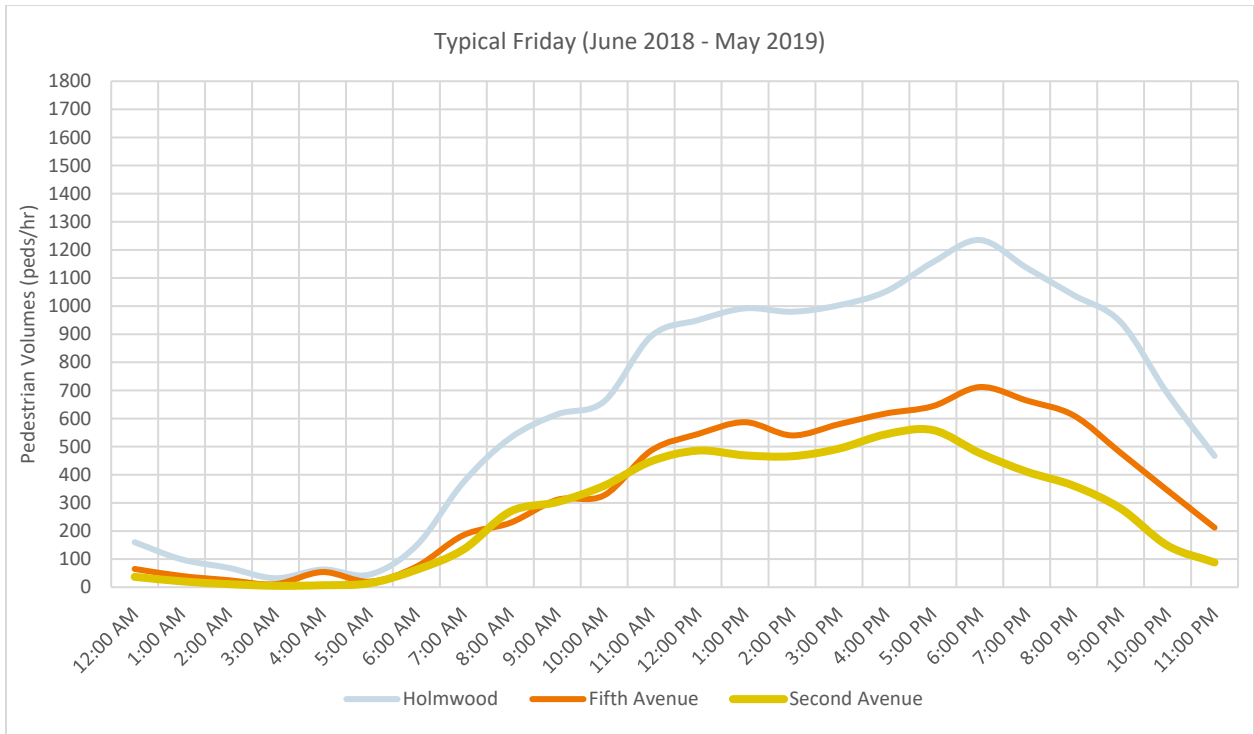
Typical Wednesday (Non-Event)



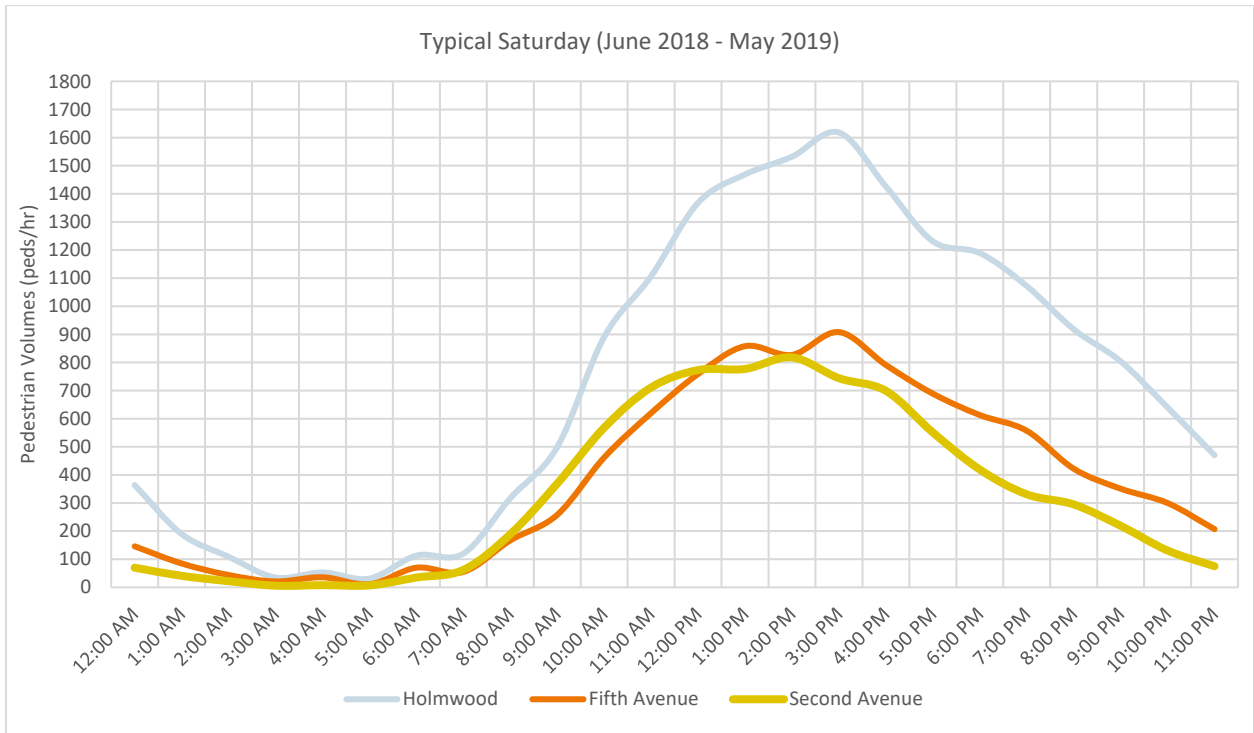
Typical Thursday (Non-Event)



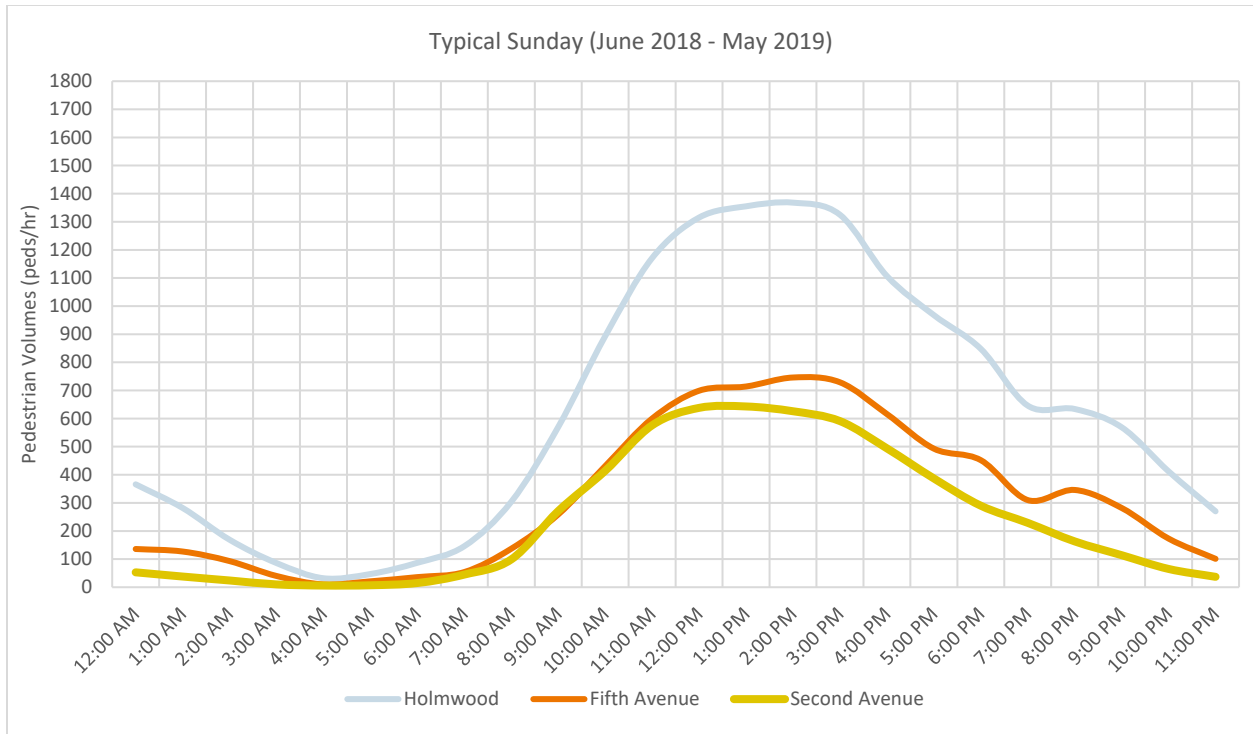
Typical Friday (Non-Event)



Typical Saturday (Non-Event)



Typical Sunday (Non-Event)

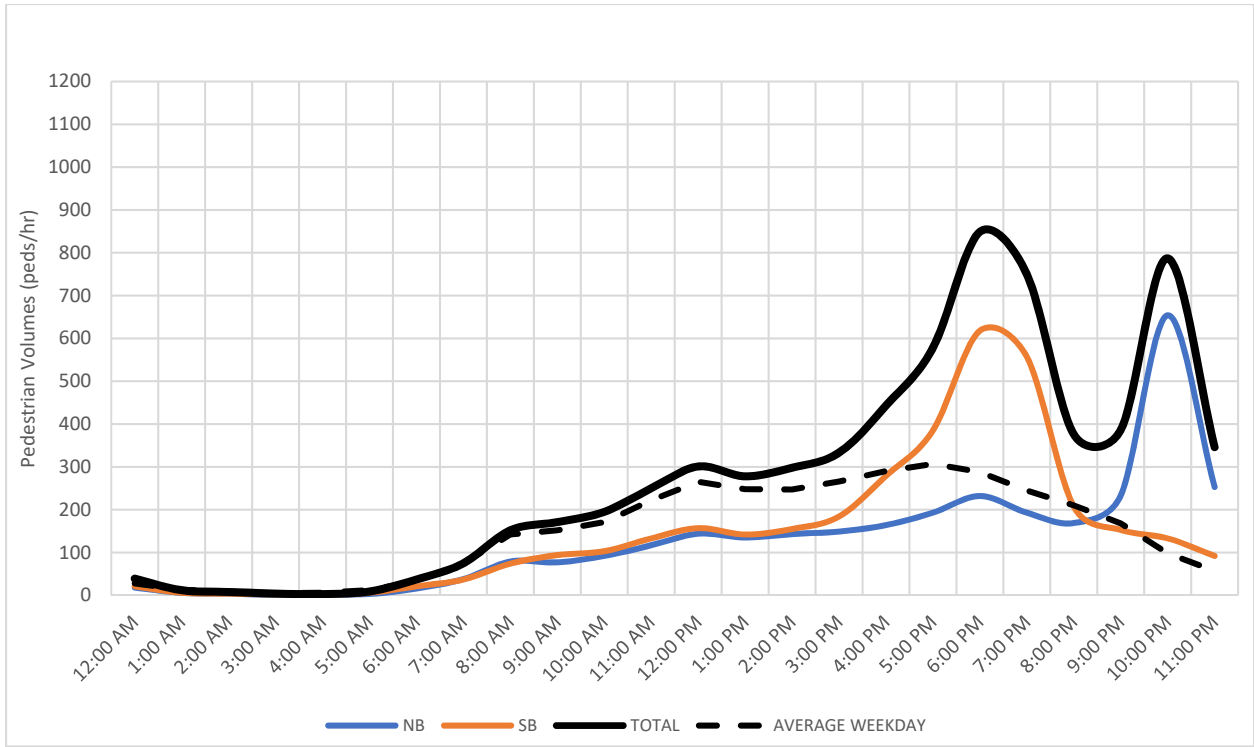


APPENDIX C

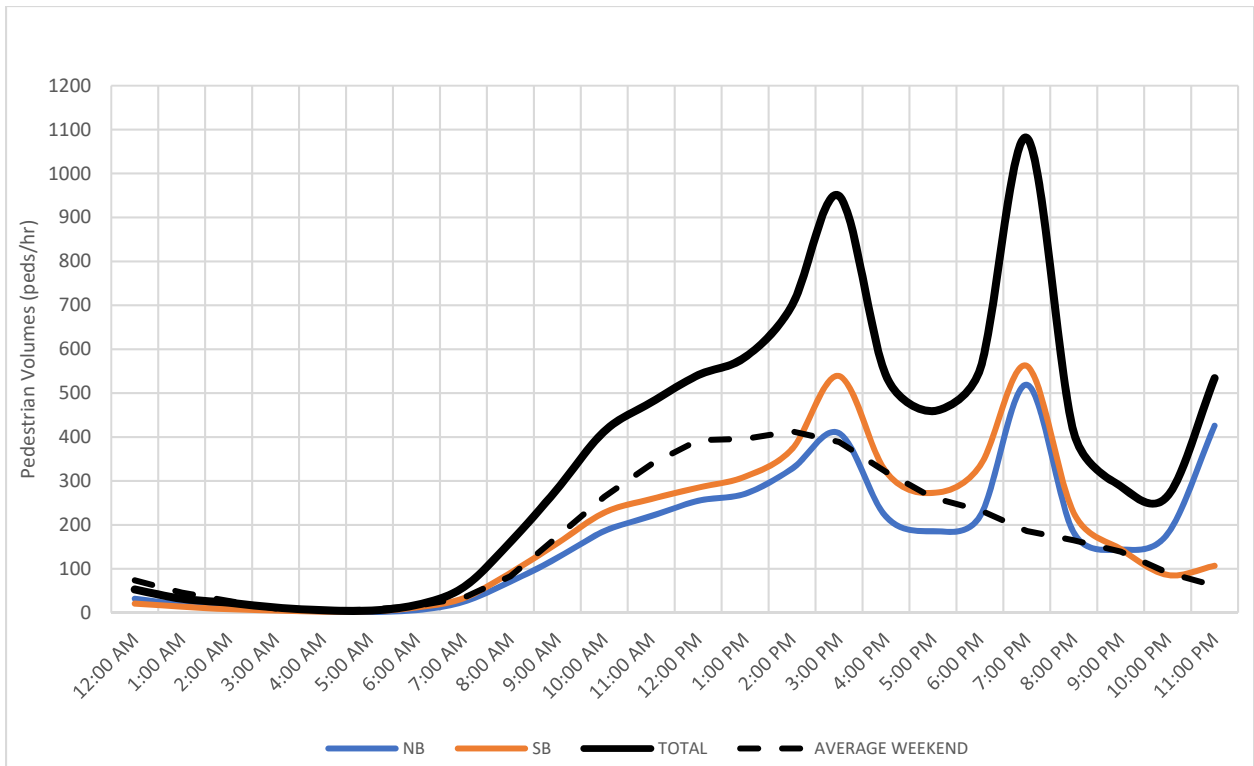
Pedestrian Volume Variations (Seasonal, Event, Weather)

SPECIAL EVENTS

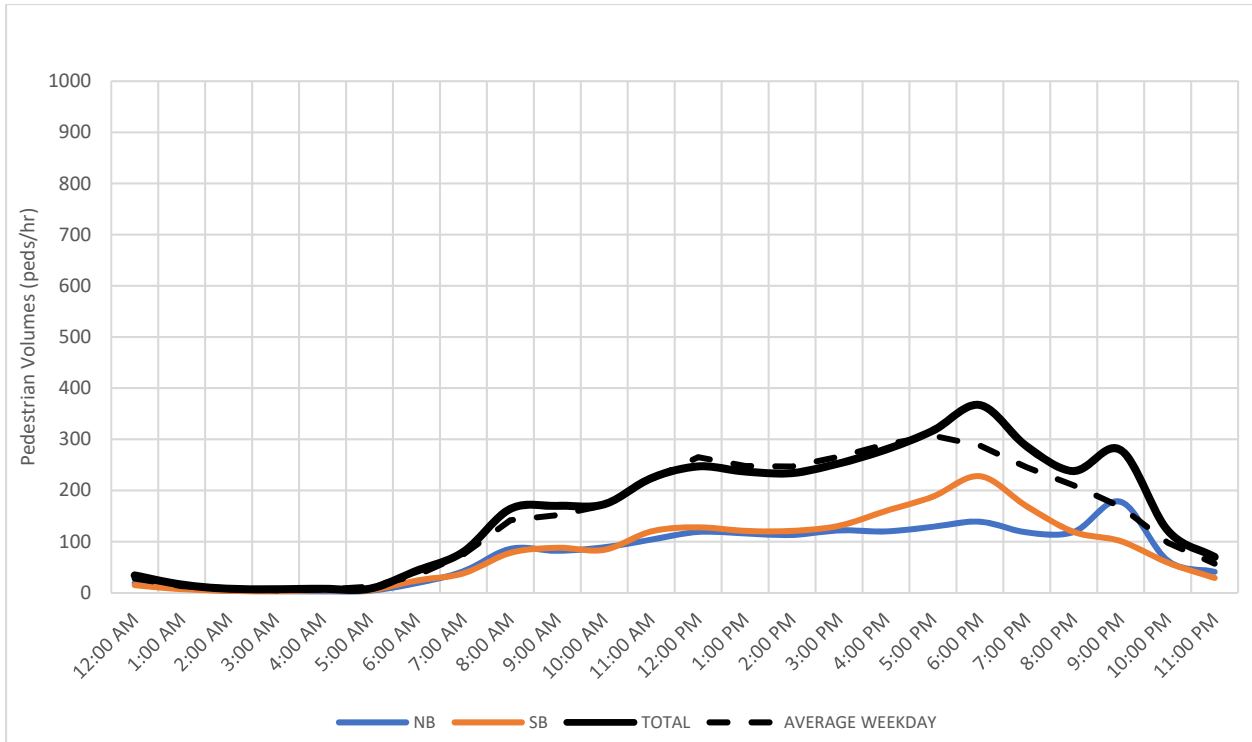
2018 Ottawa REDBLACKS Game (Weekday)



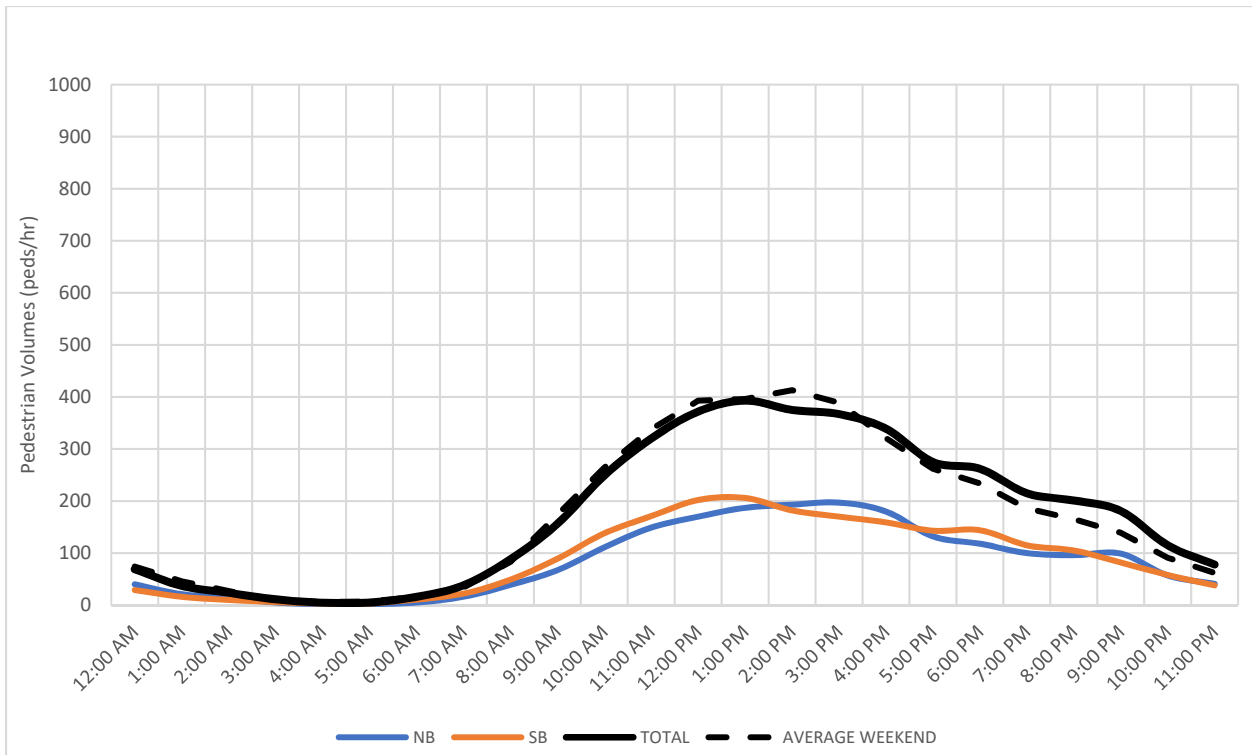
2018 Ottawa REDBLACKS Game (Weekend)



2018 Ottawa Fury FC (Weekday)



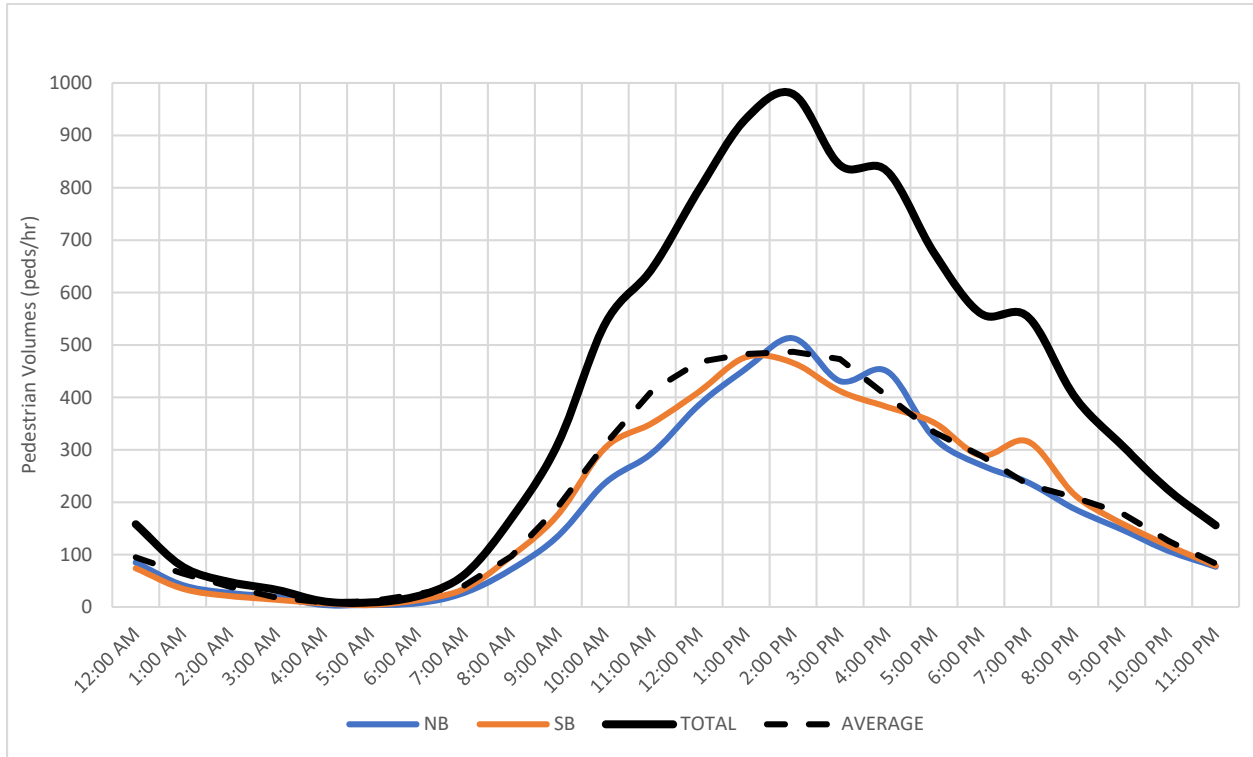
2018 Ottawa Fury FC (Weekend)



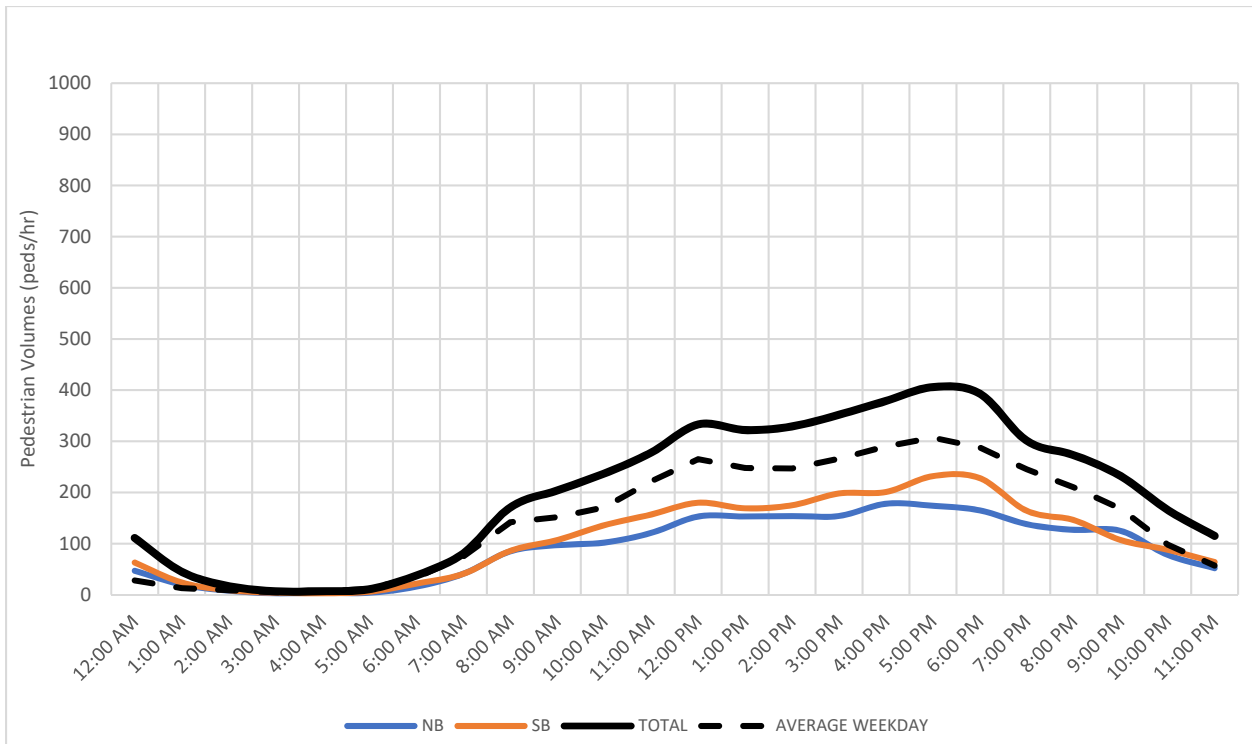
2019 Ottawa Fury FC (Weekday)

N/A – no Fury FC games were scheduled on weekdays during 2019 reporting period.

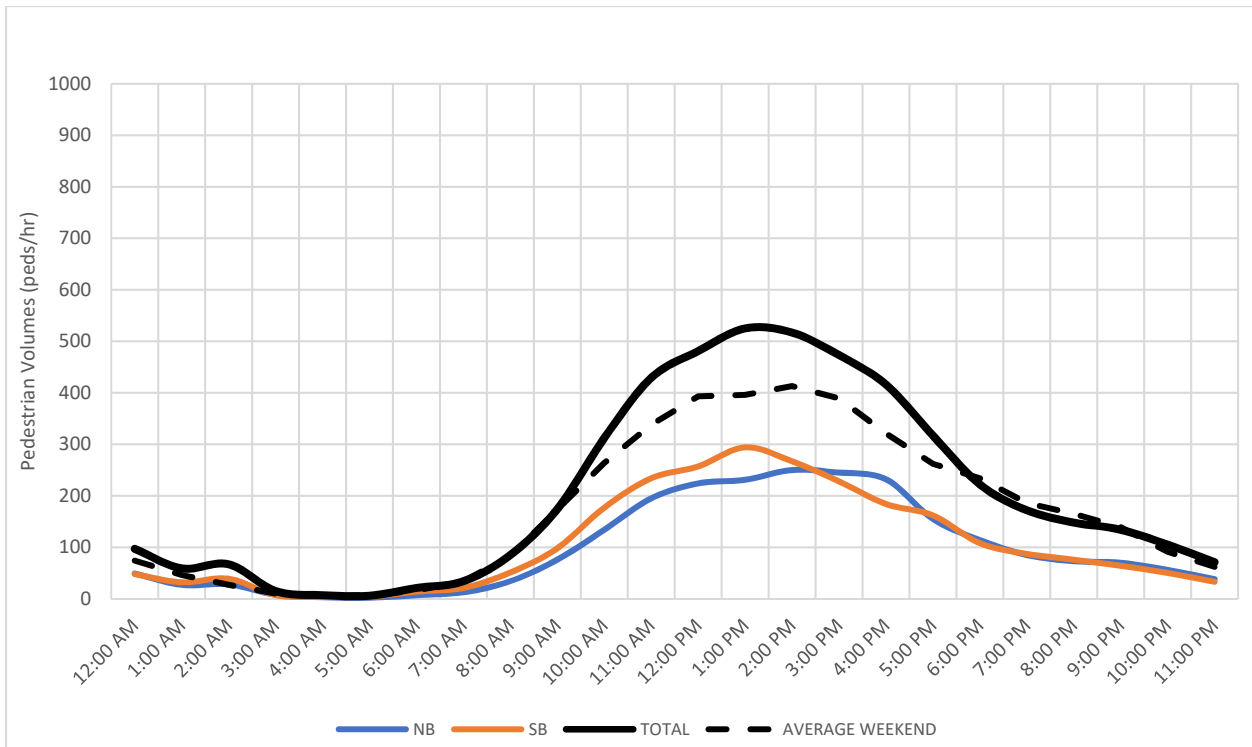
2019 Ottawa Fury FC (Weekend)



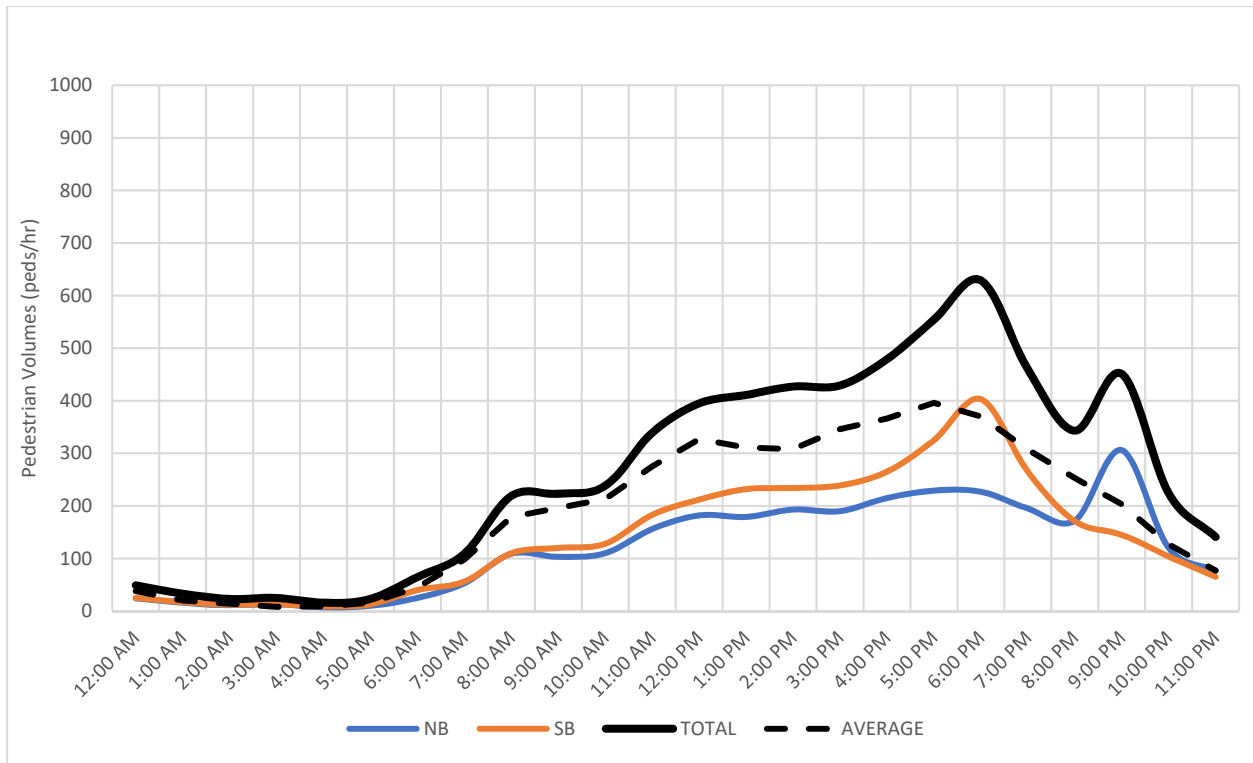
2018 Ottawa 67's (Weekday)



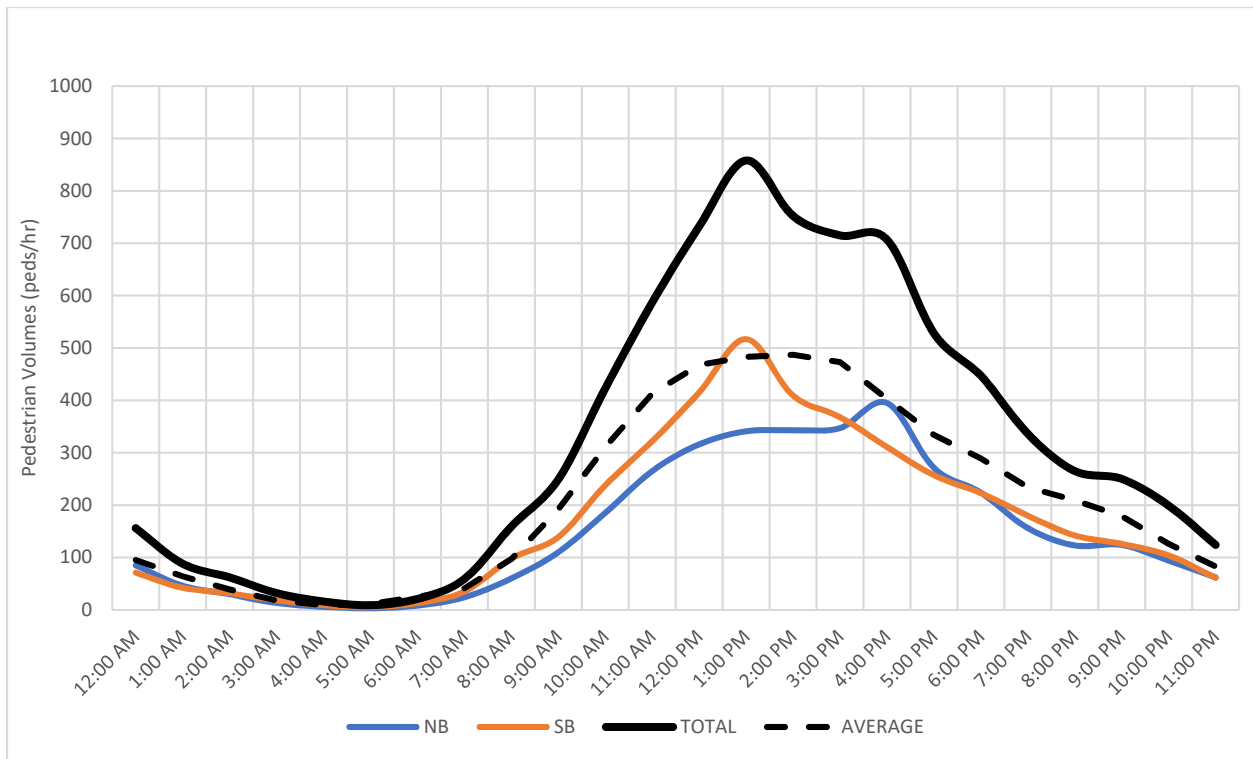
2018 Ottawa 67's (Weekend)



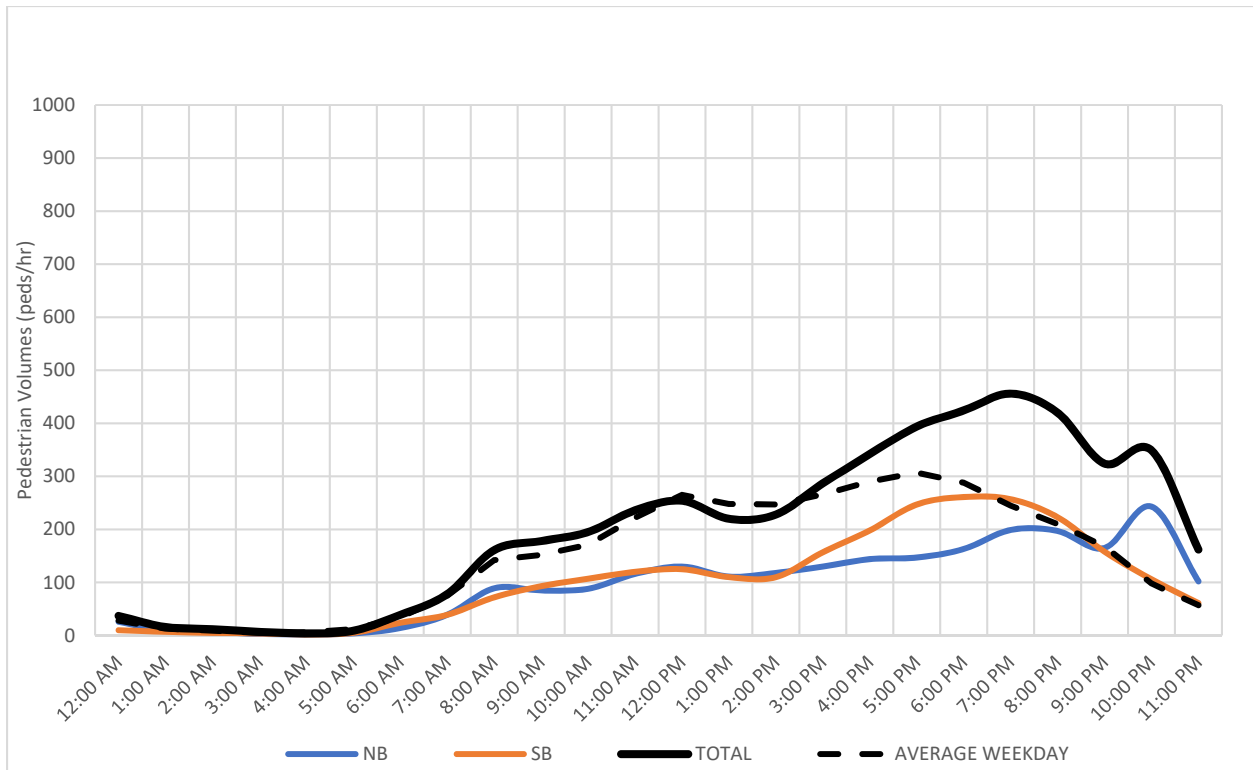
2019 Ottawa 67's (Weekday)



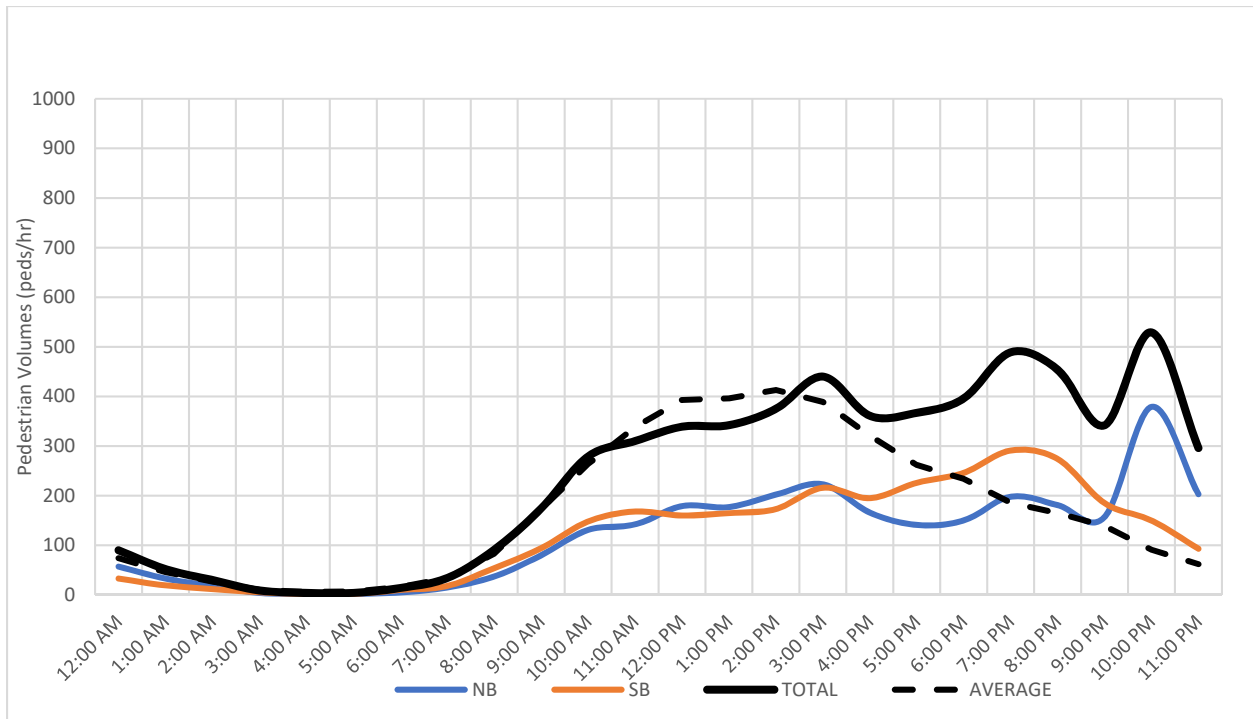
2019 Ottawa 67's (Weekend)



MARVEST – FRIDAY, SEPTEMBER 14 2018



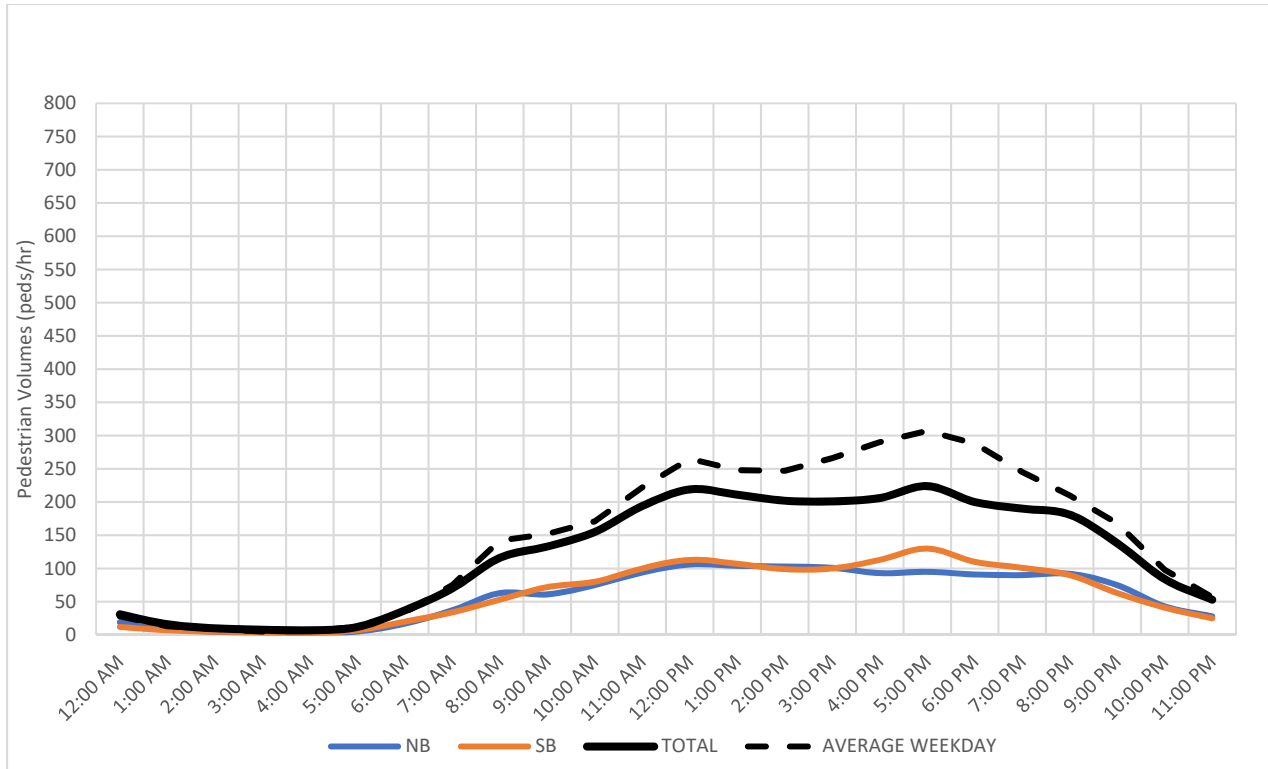
MARVEST – SATURDAY, SEPTEMBER 15 2018



WEATHER EVENTS

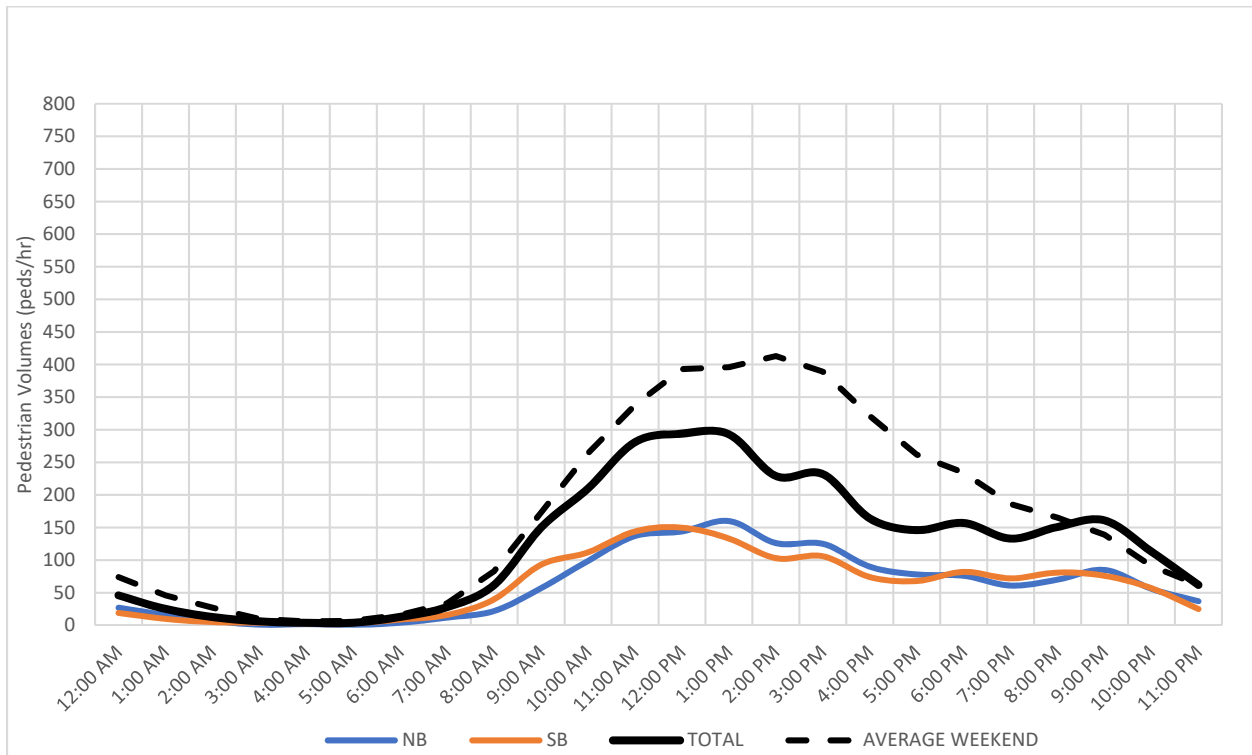
2018 HEAT WAVE WEEKDAY

(Average of June 30 - Friday, July 4 - Wednesday, July 5 - Thursday, August 28 - Tuesday, September 3 - Monday, September 5 - Wednesday)



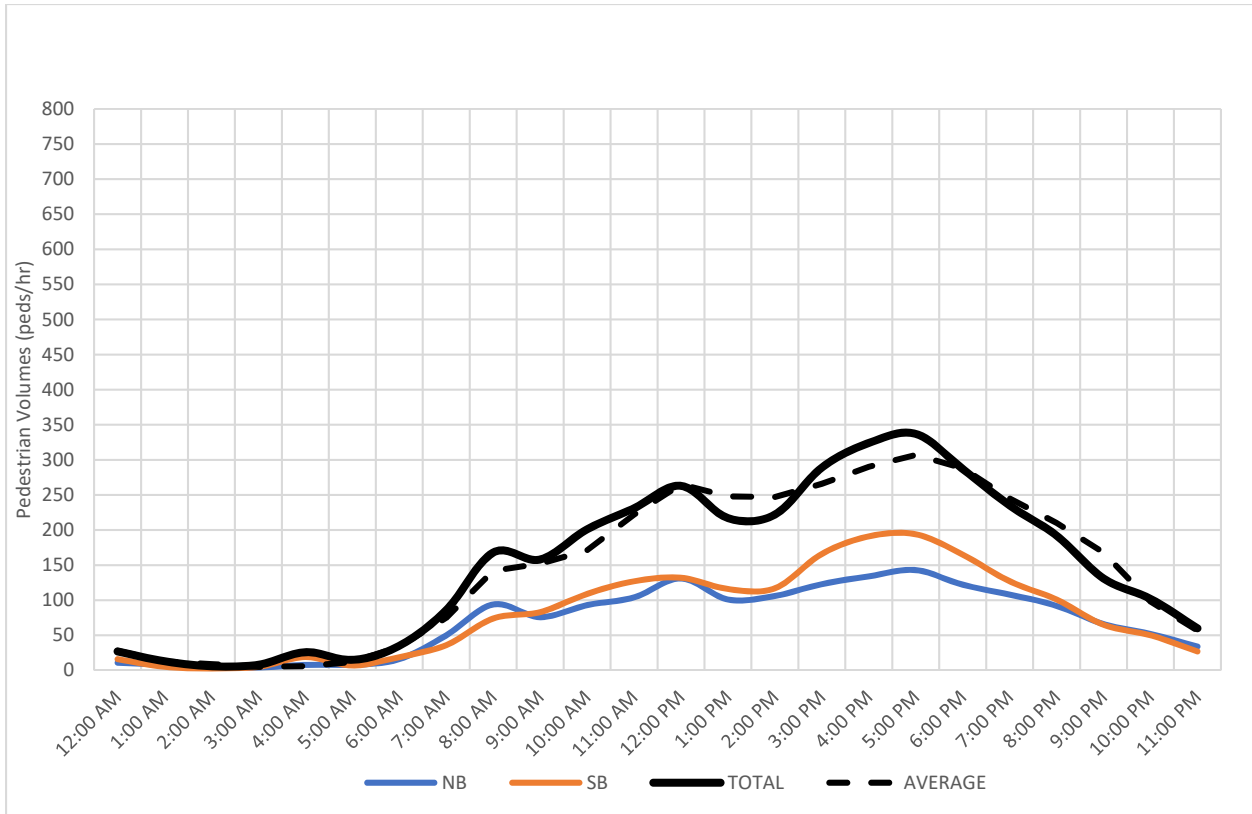
2018 HEAT WAVE WEEKEND

(Average of June 31 - Saturday, August 5 - Sunday)



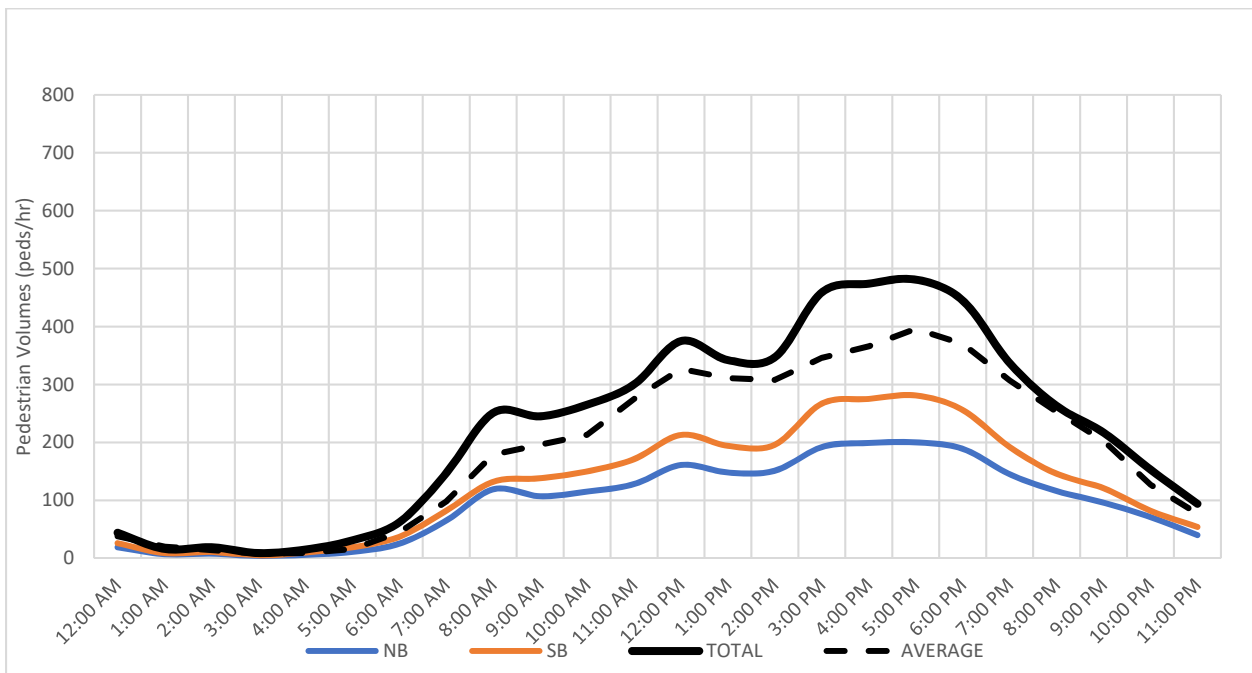
2018 COLD WAVE

(Average of November 21 - Wednesday, November 22 - Thursday)

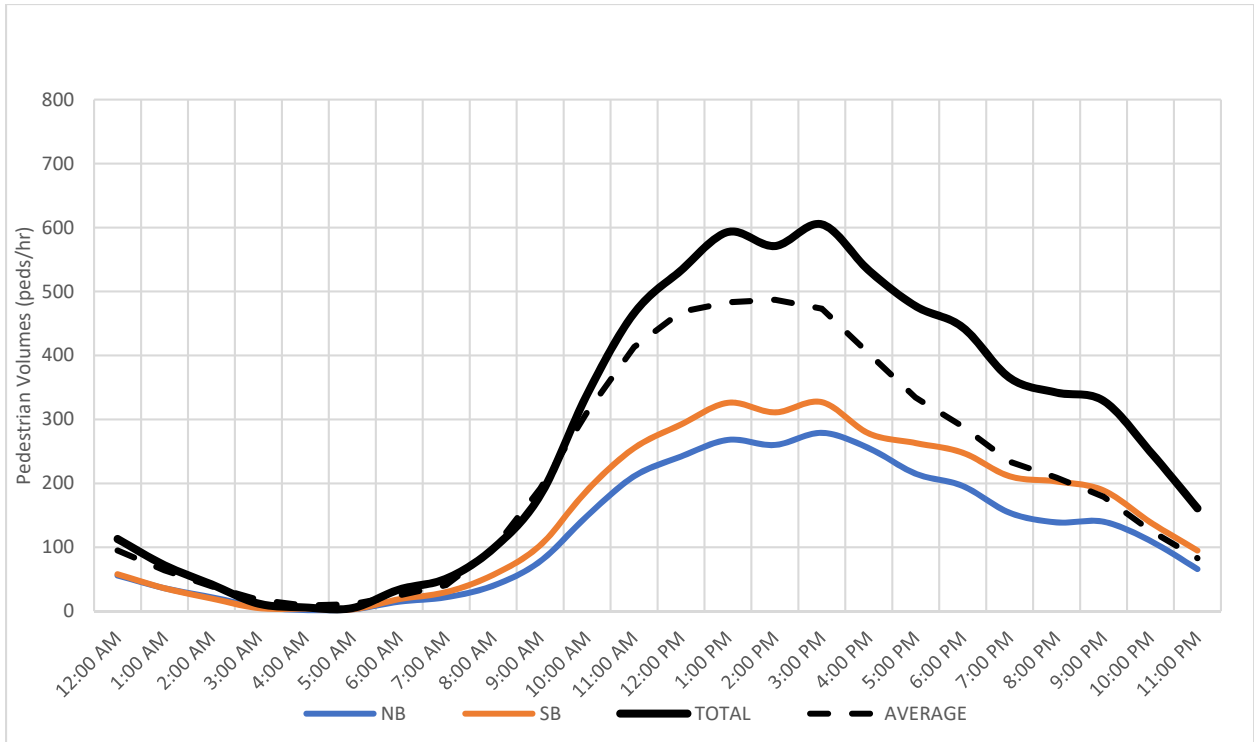


2019 COLD WAVE WEEKDAY

(Average of January 14, 21, 22, 29, 31, February 19, 20, 27, 28, March 6, 7, 23)

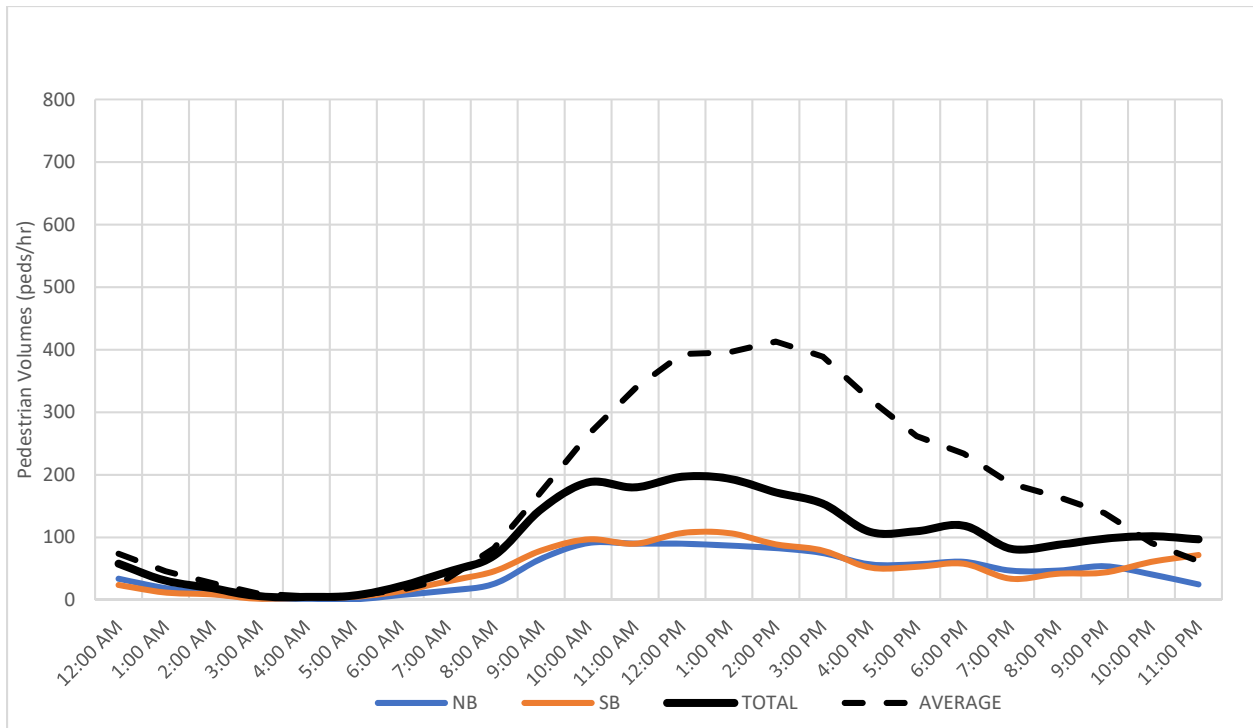


2019 COLD WAVE WEEKEND
(January 20)

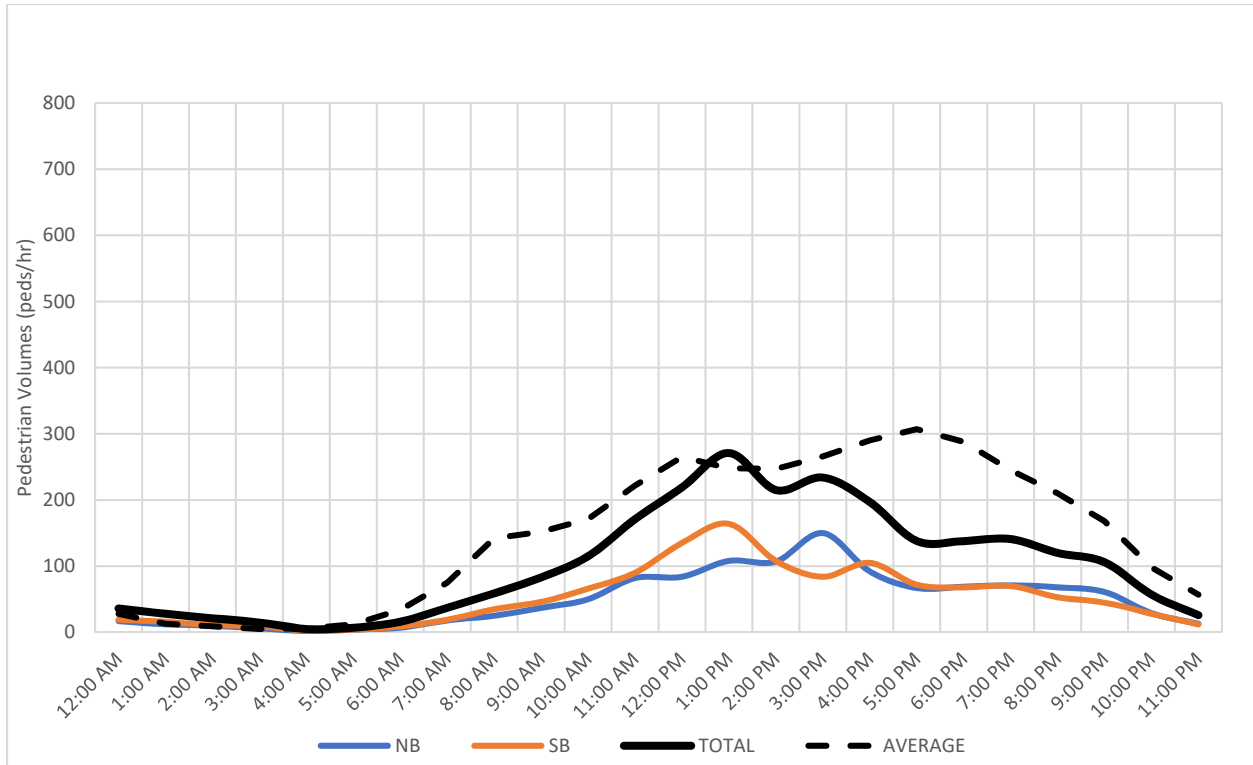


HOLIDAYS

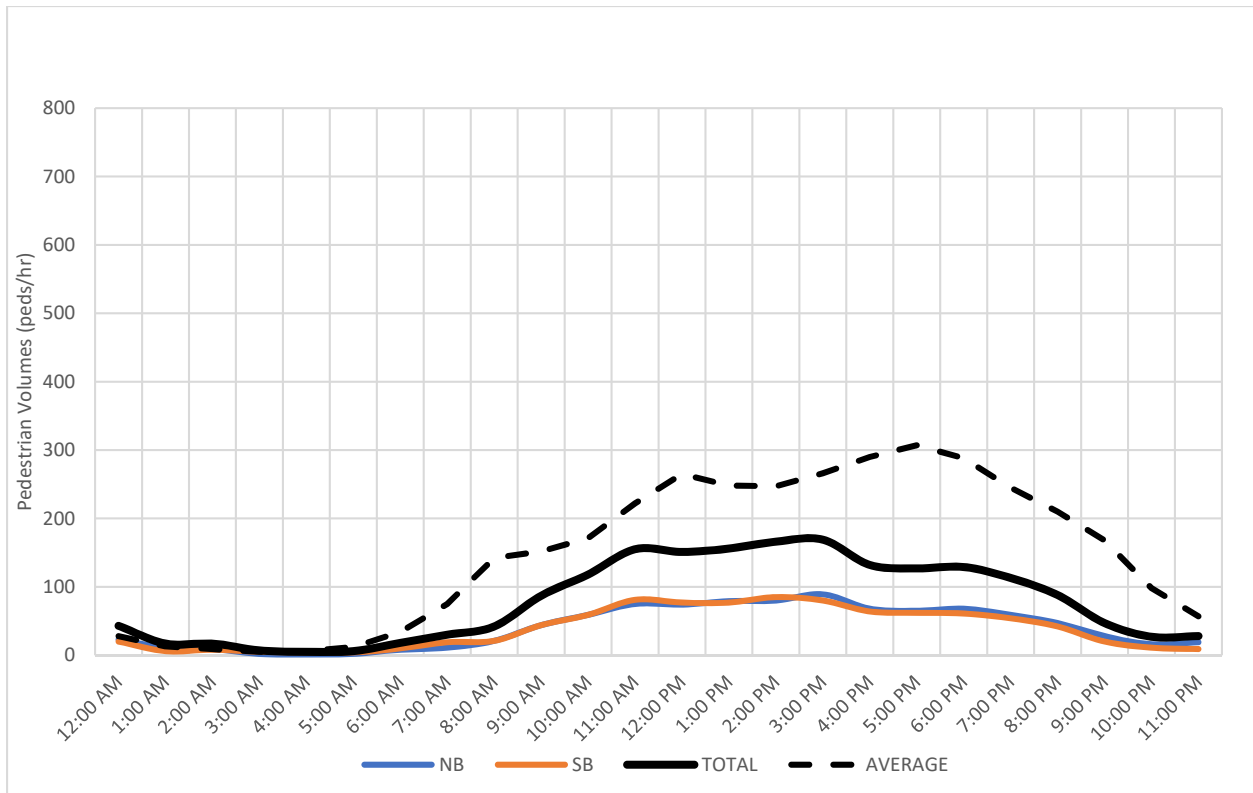
CANADA DAY (Sunday, July 1 2018)



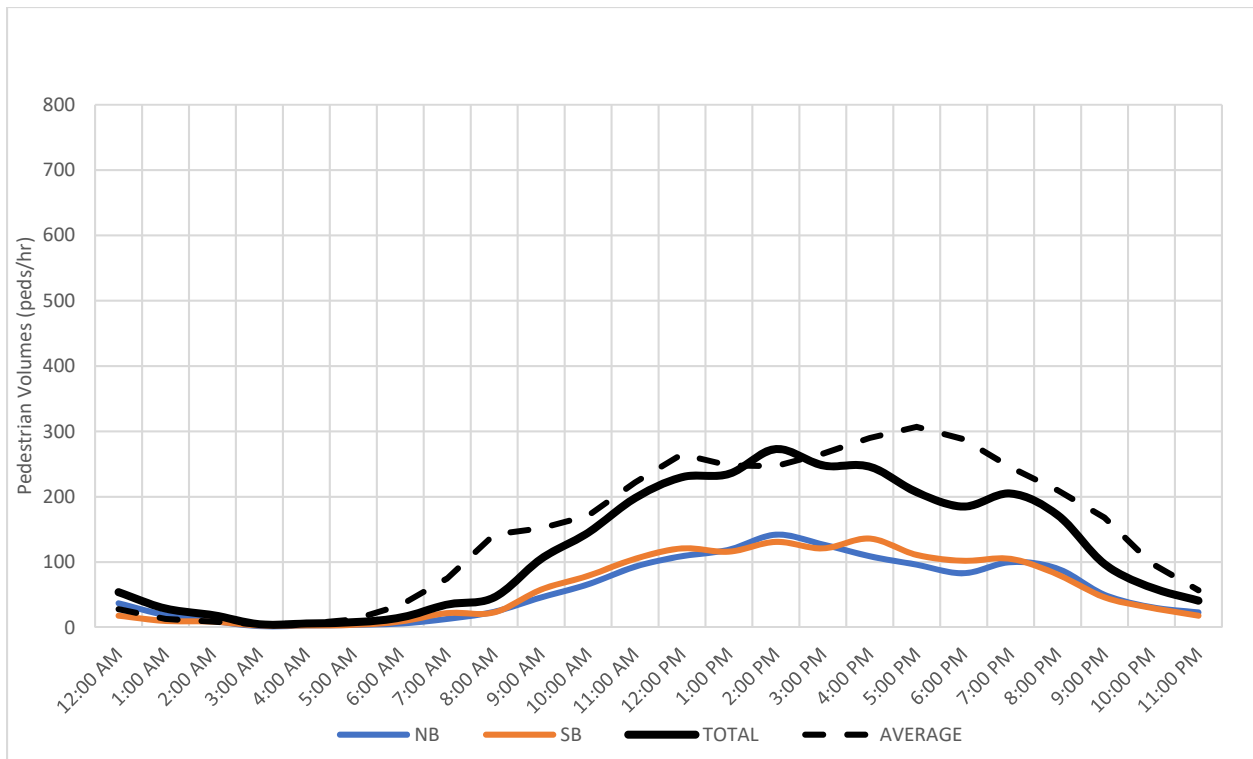
CANADA DAY STATUTORY HOLIDAY (Monday, July 2 2018)



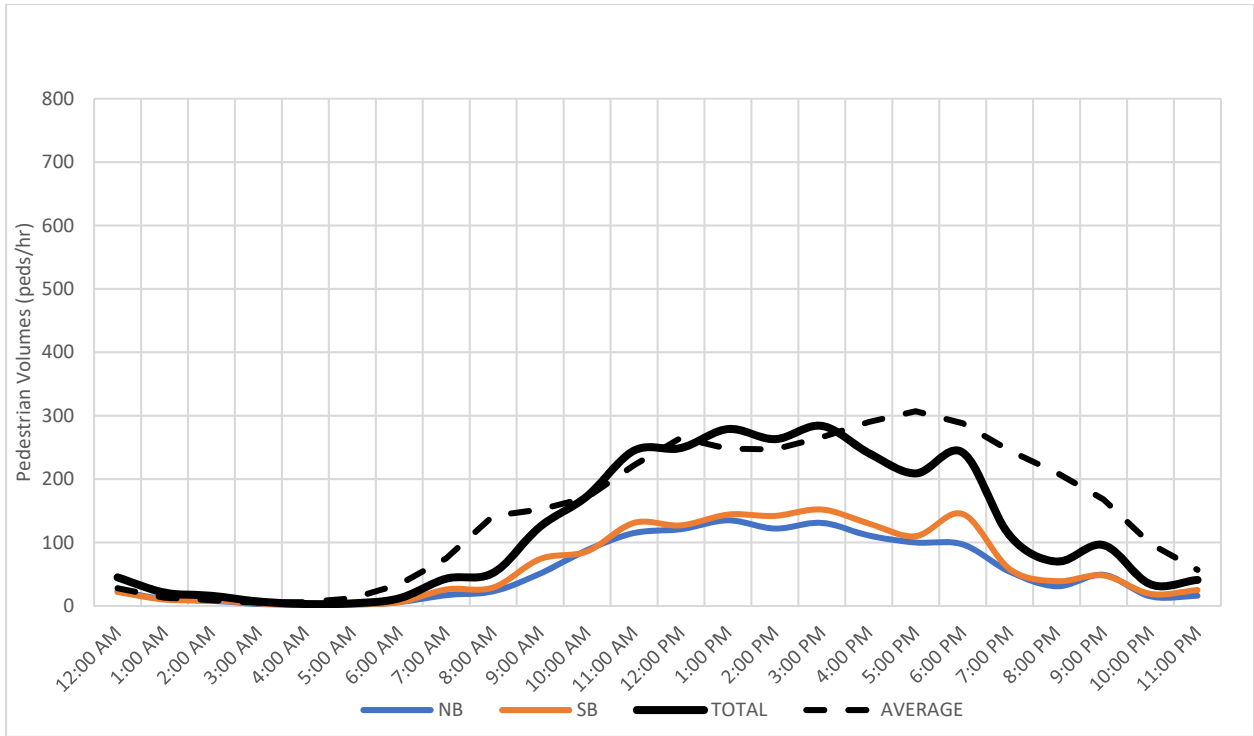
CIVIC HOLIDAY (Monday, August 6 2018)



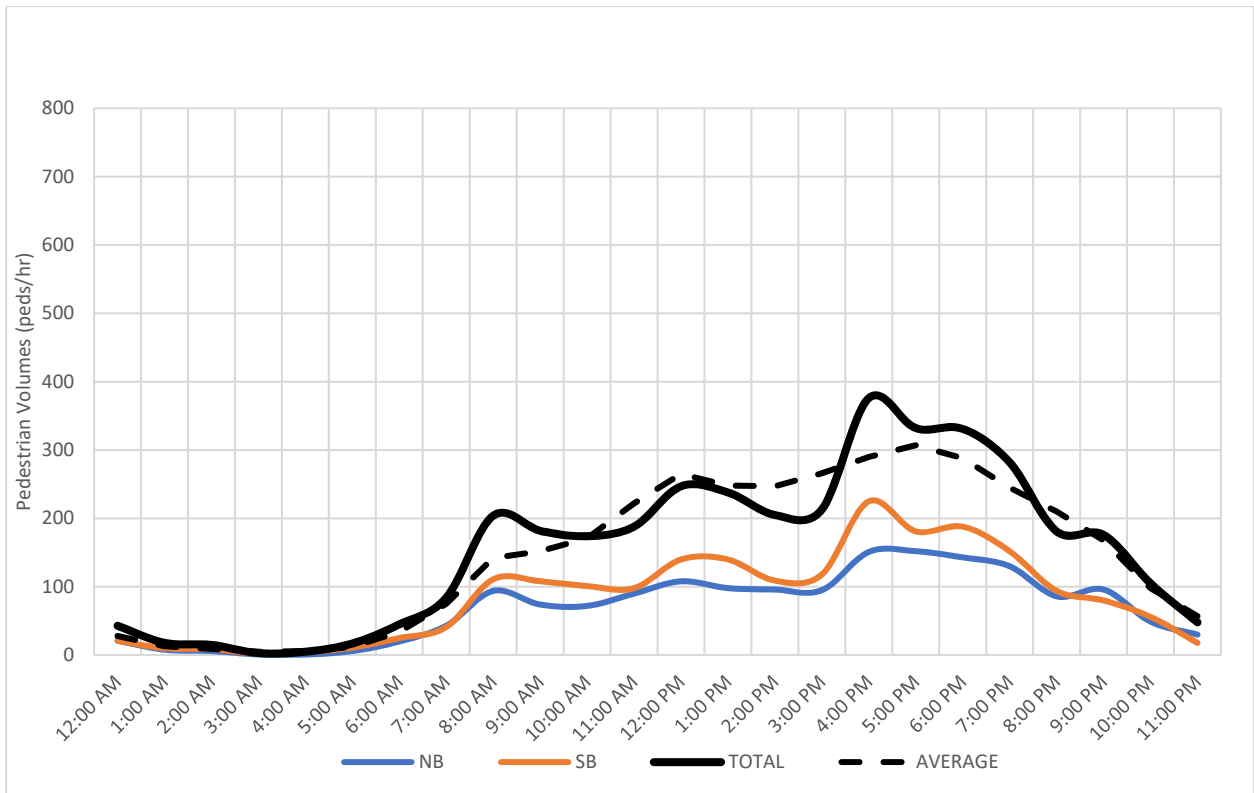
LABOUR DAY (MONDAY, SEPTEMBER 3 2018)



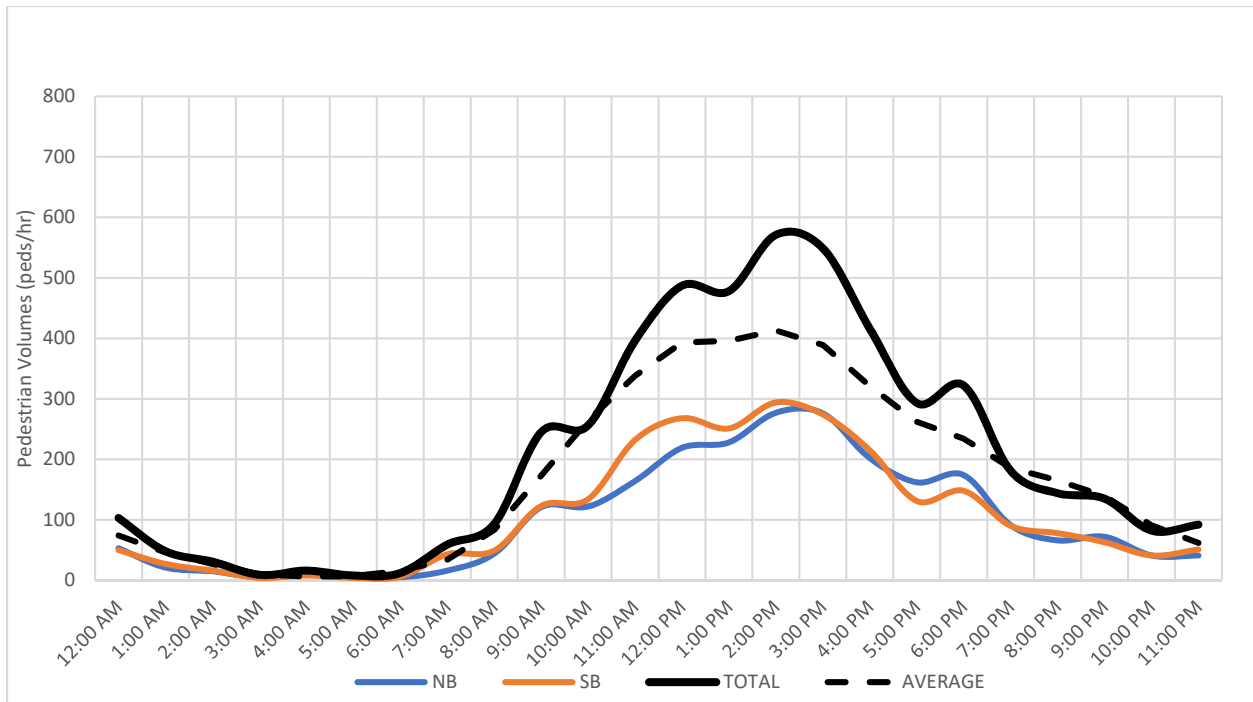
THANKSGIVING (MONDAY, OCTOBER 8 2018)



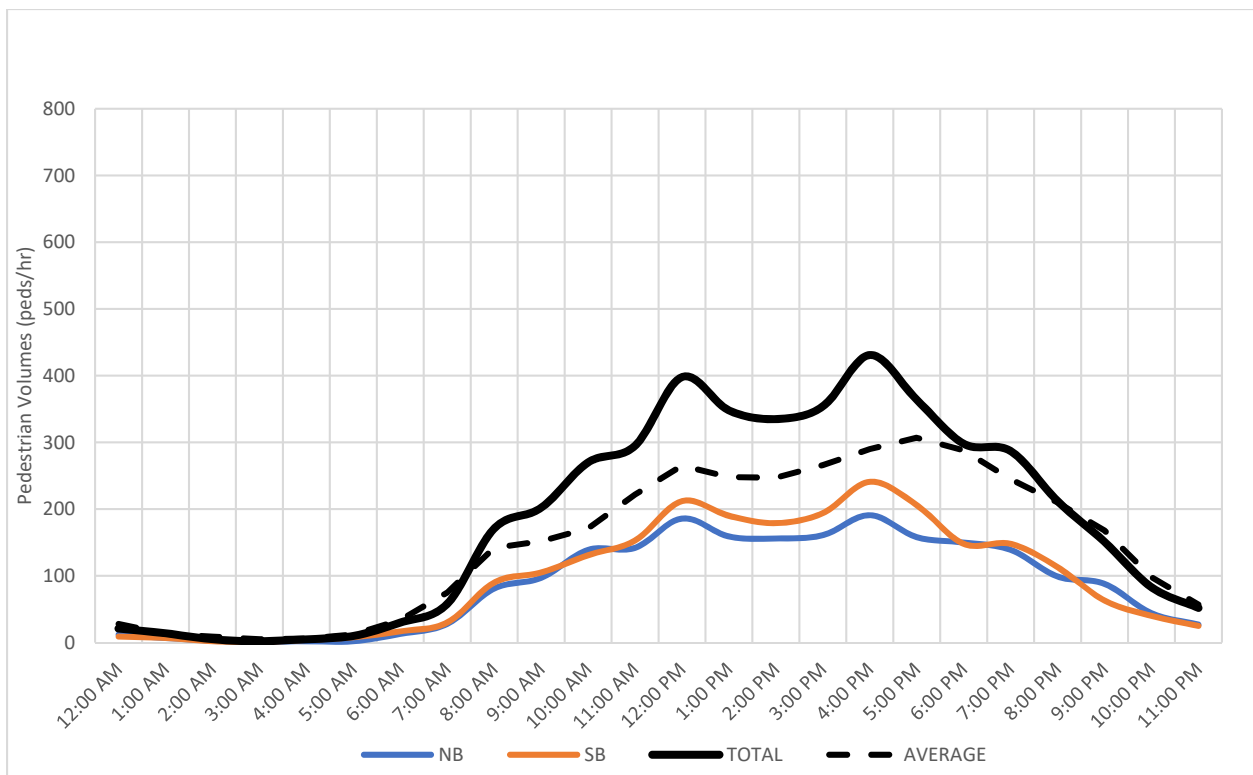
HALLOWEEN (WEDNESDAY, OCTOBER 31 2018)



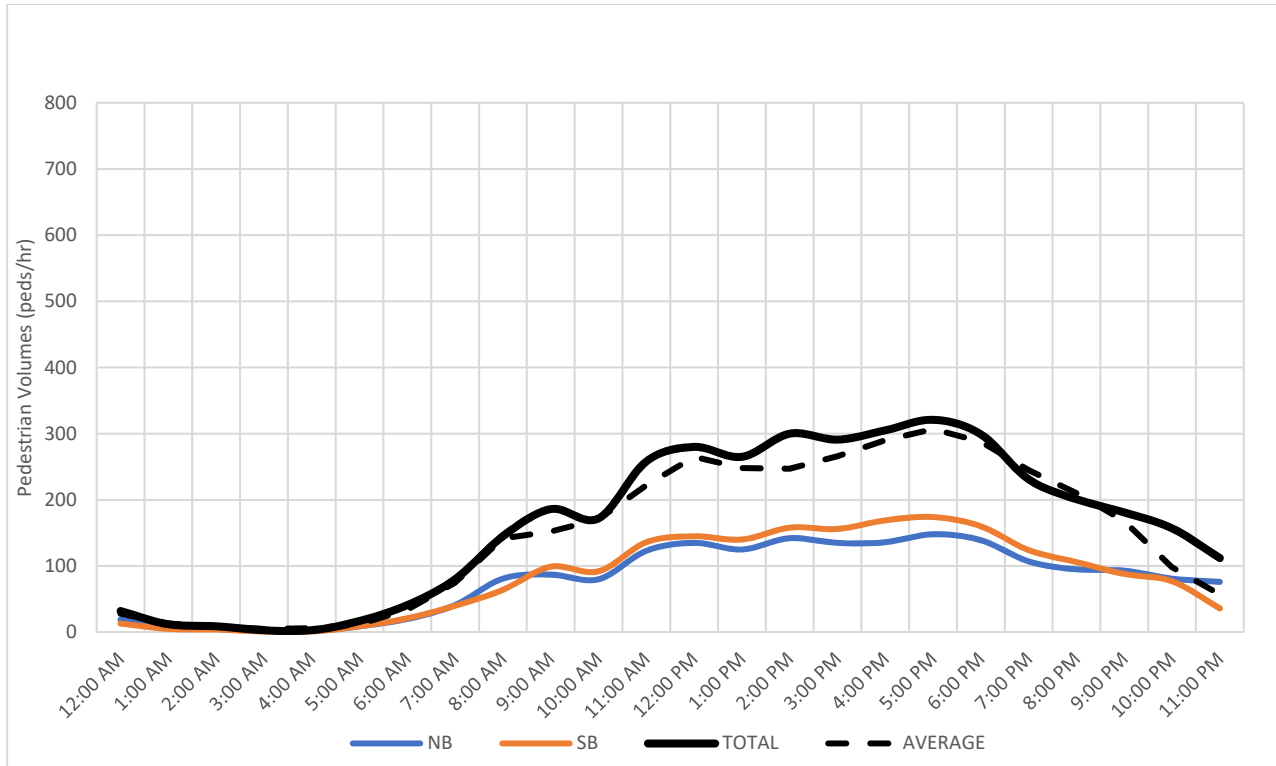
REMEBERANCE DAY (SUNDAY, NOVEMBER 11 2018)



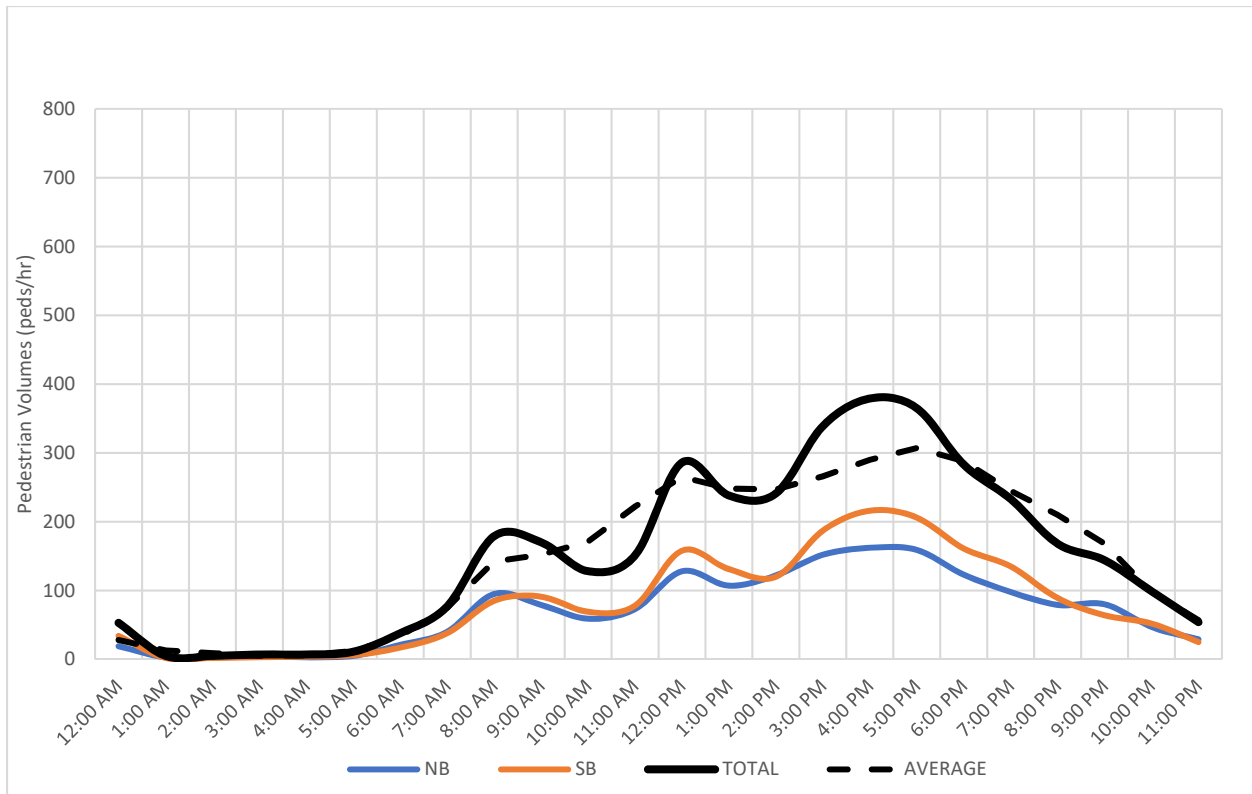
REMEBERANCE DAY (MONDAY, NOVEMBER 12 2018)



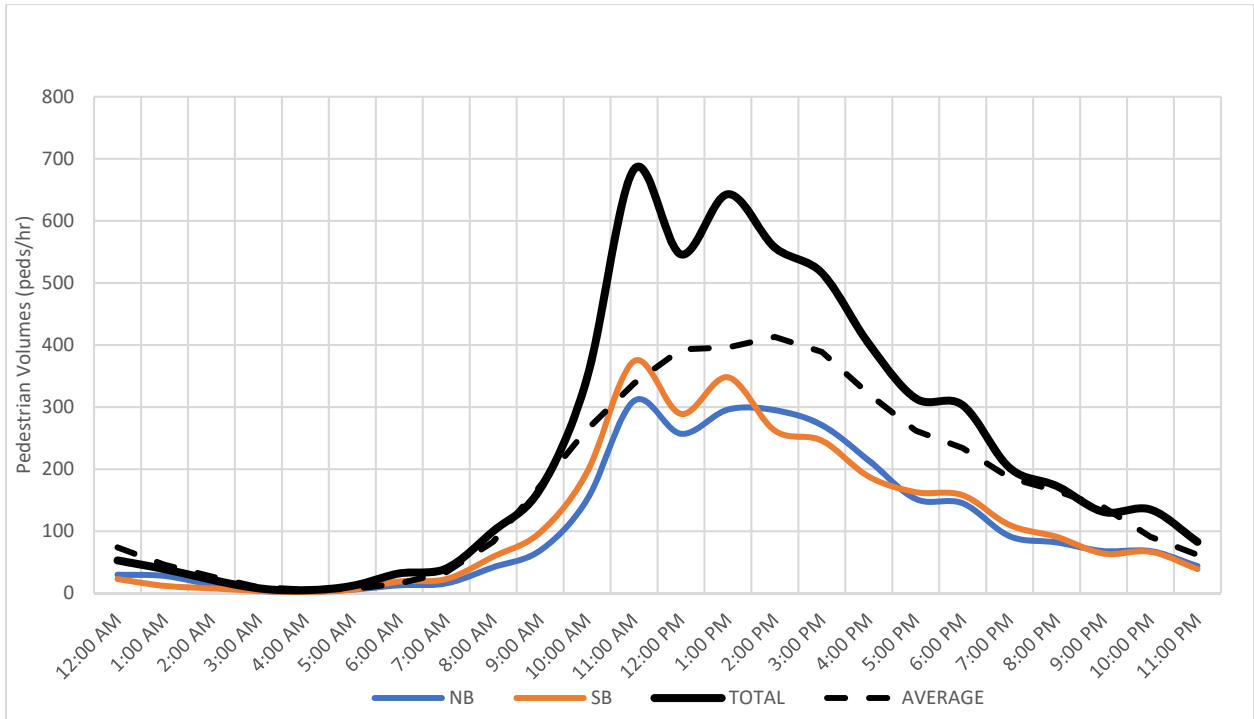
BLACK FRIDAY (FRIDAY, NOVEMBER 23 2018)



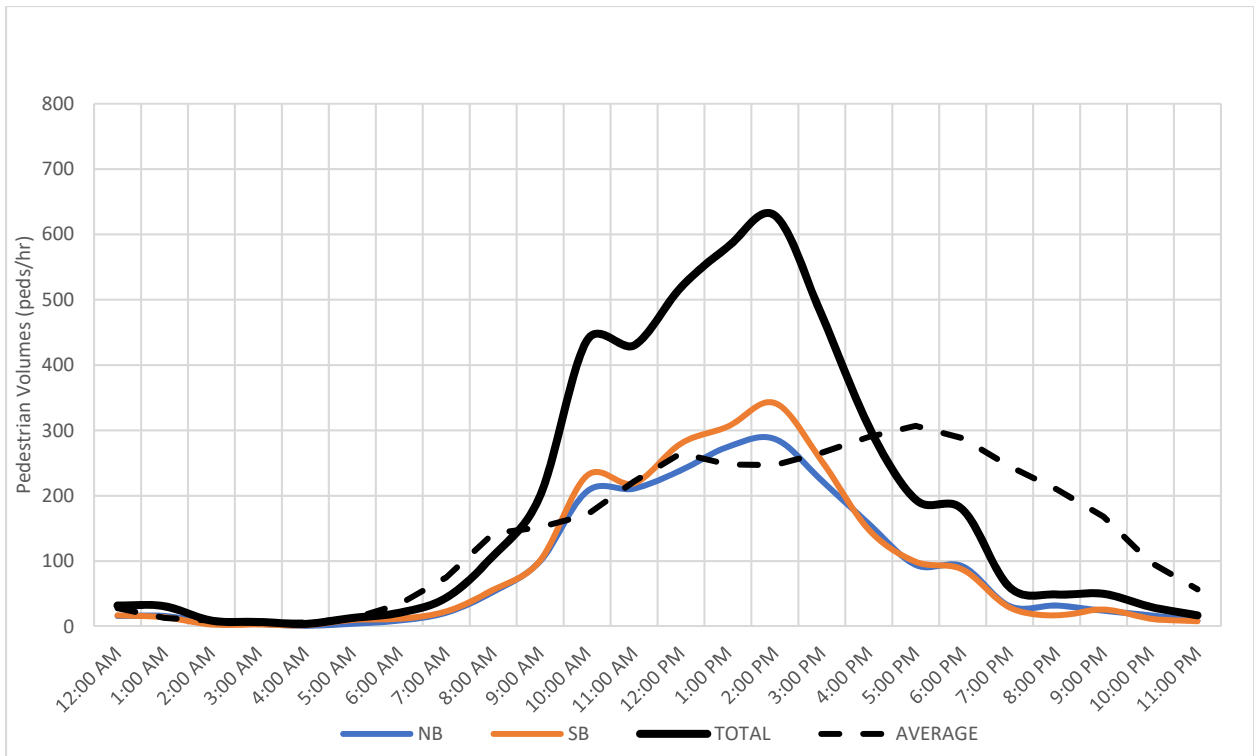
CYBER MONDAY (MONDAY, NOVEMBER 27 2018)



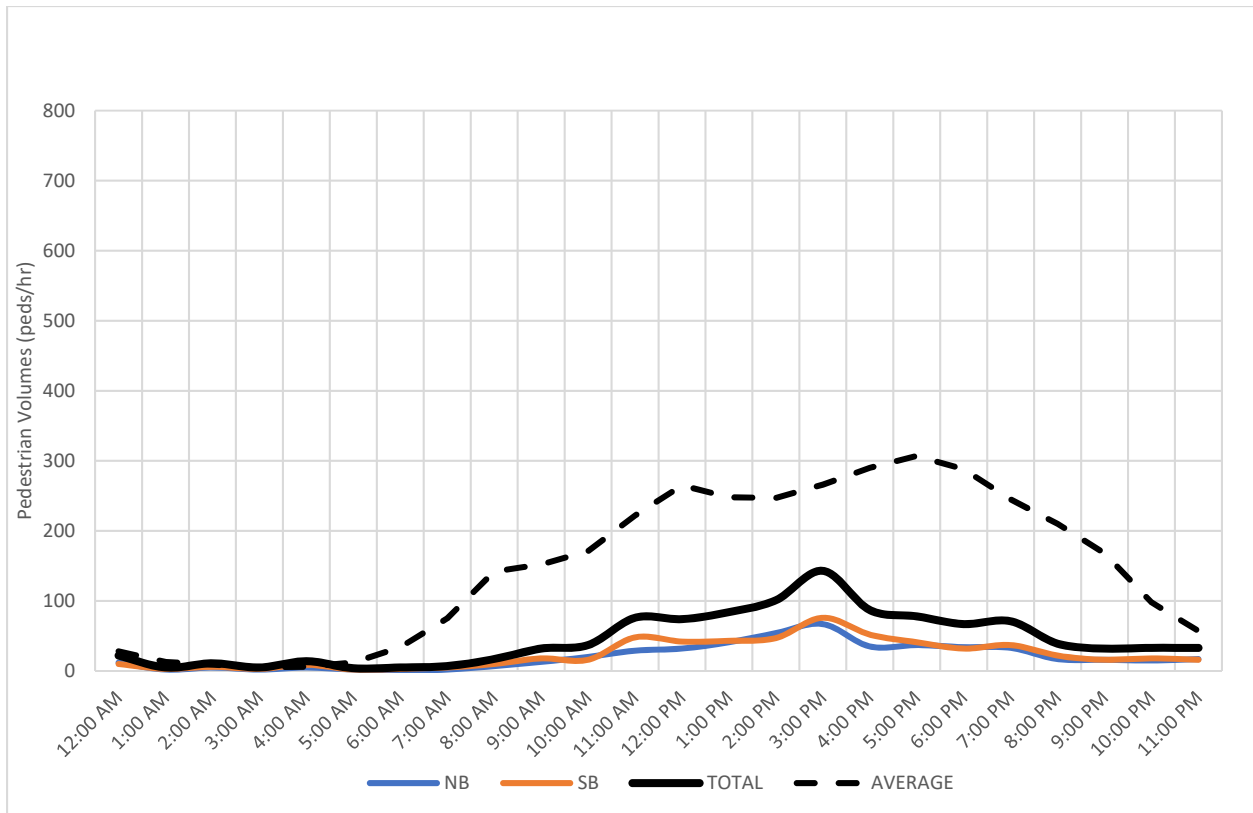
SANTA CLAUSE PARADE (SATURDAY, NOVEMBER 17 2018)



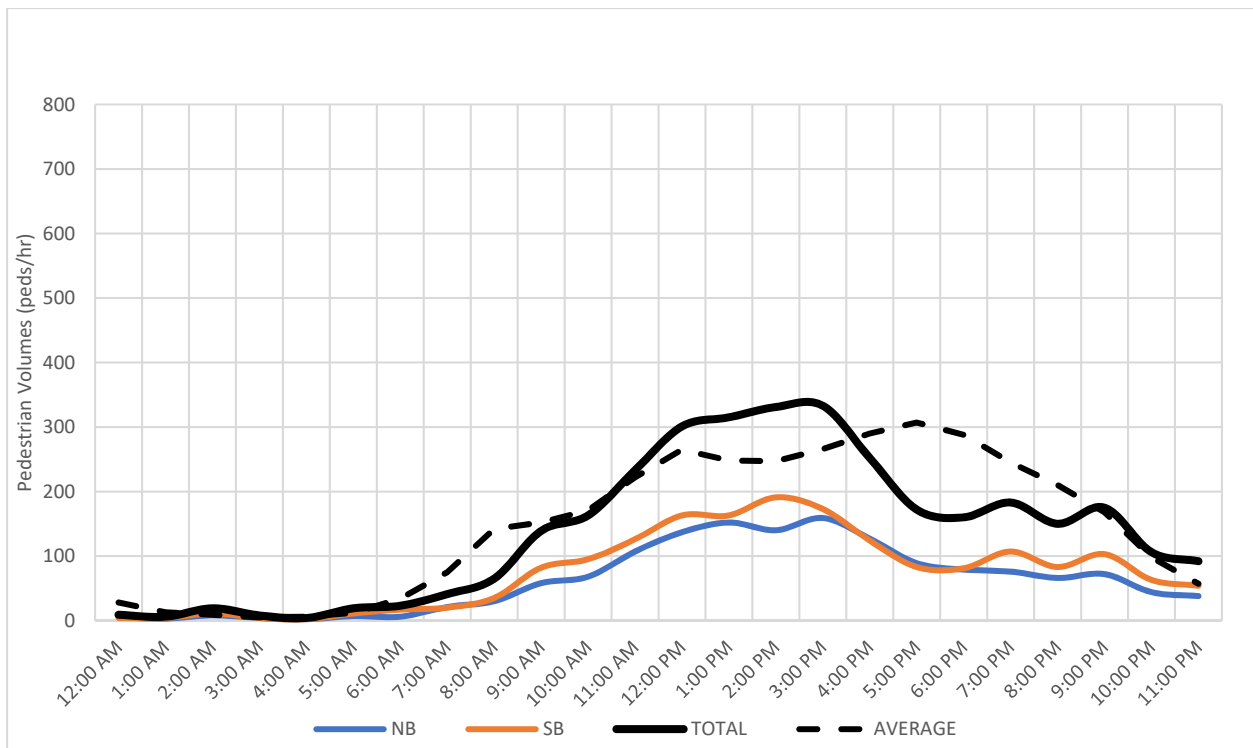
CHRISTMAS EVE (MONDAY, DECEMBER 24 2018)



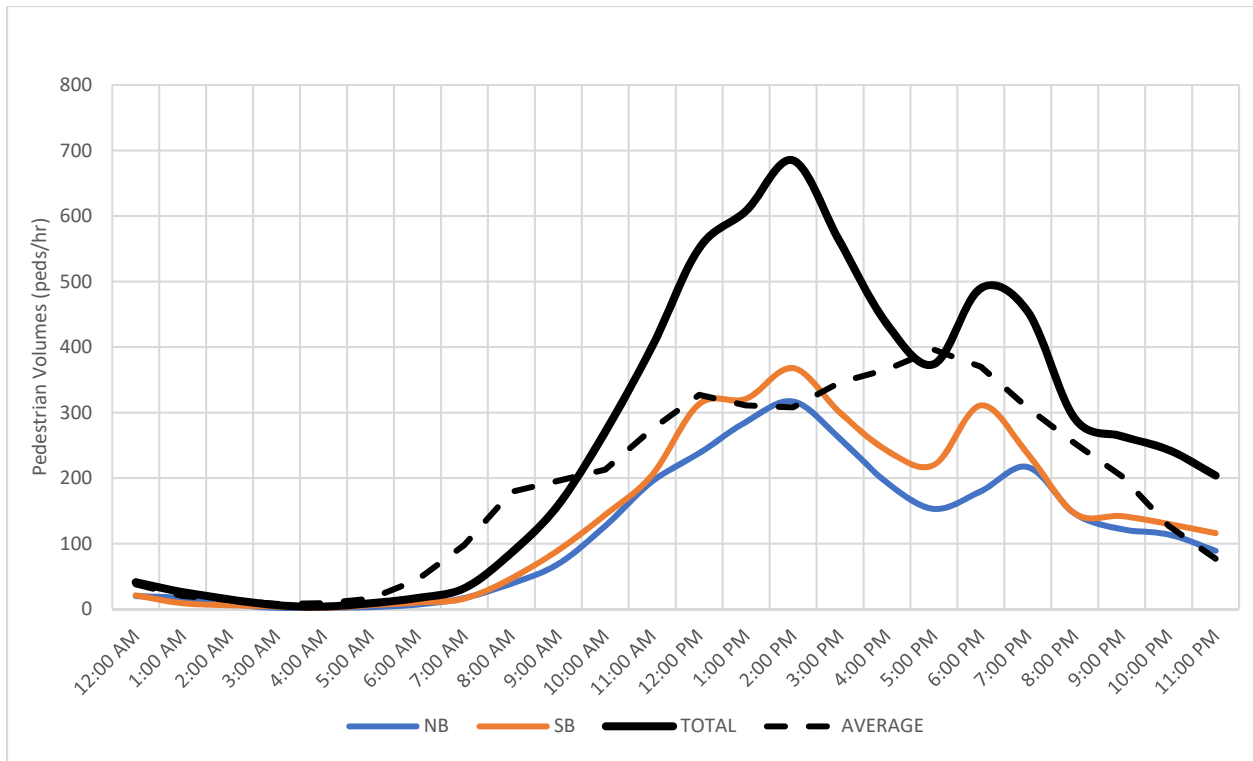
CHRISTMAS DAY (TUESDAY, DECEMBER 25 2018)



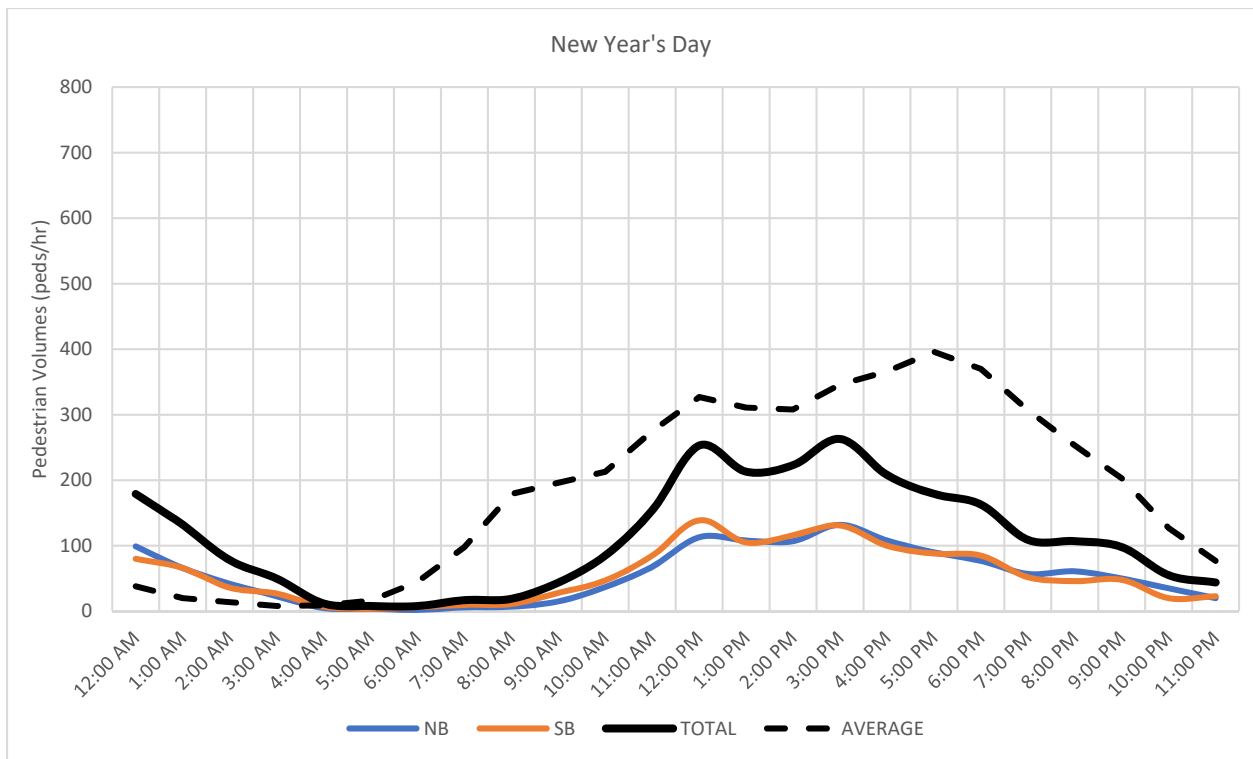
BOXING DAY (WEDNESDAY, DECEMBER 26 2018)



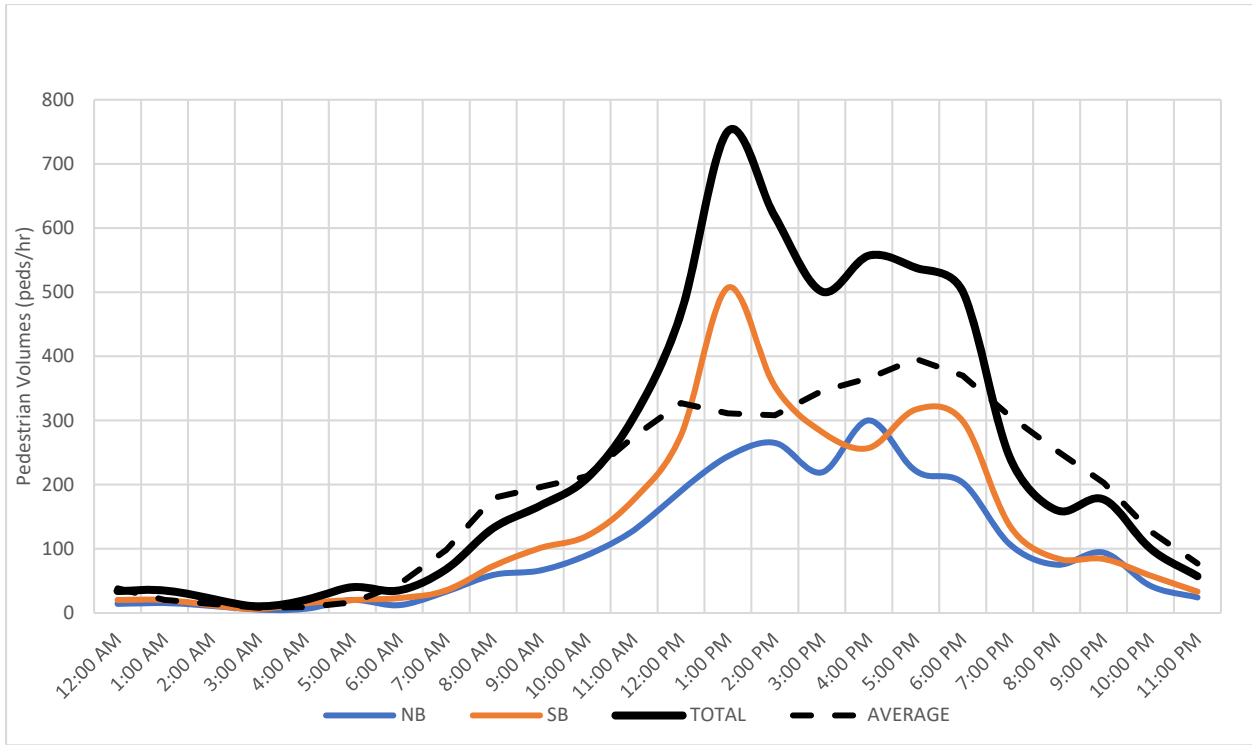
NEW YEAR'S EVE (MONDAY, DECEMBER 31 2018)



NEW YEAR'S DAY (TUESDAY, JANUARY 1 2019)

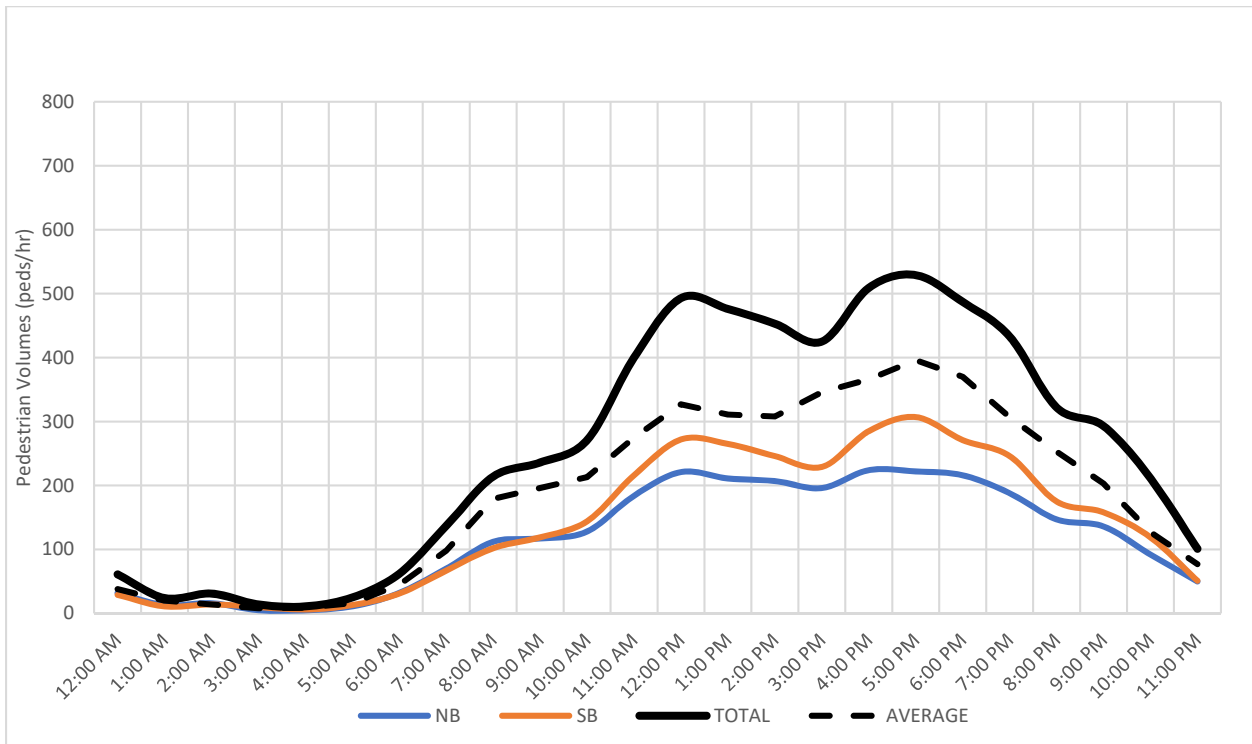


2019 FAMILY DAY (MONDAY, FEBRUARY 18)

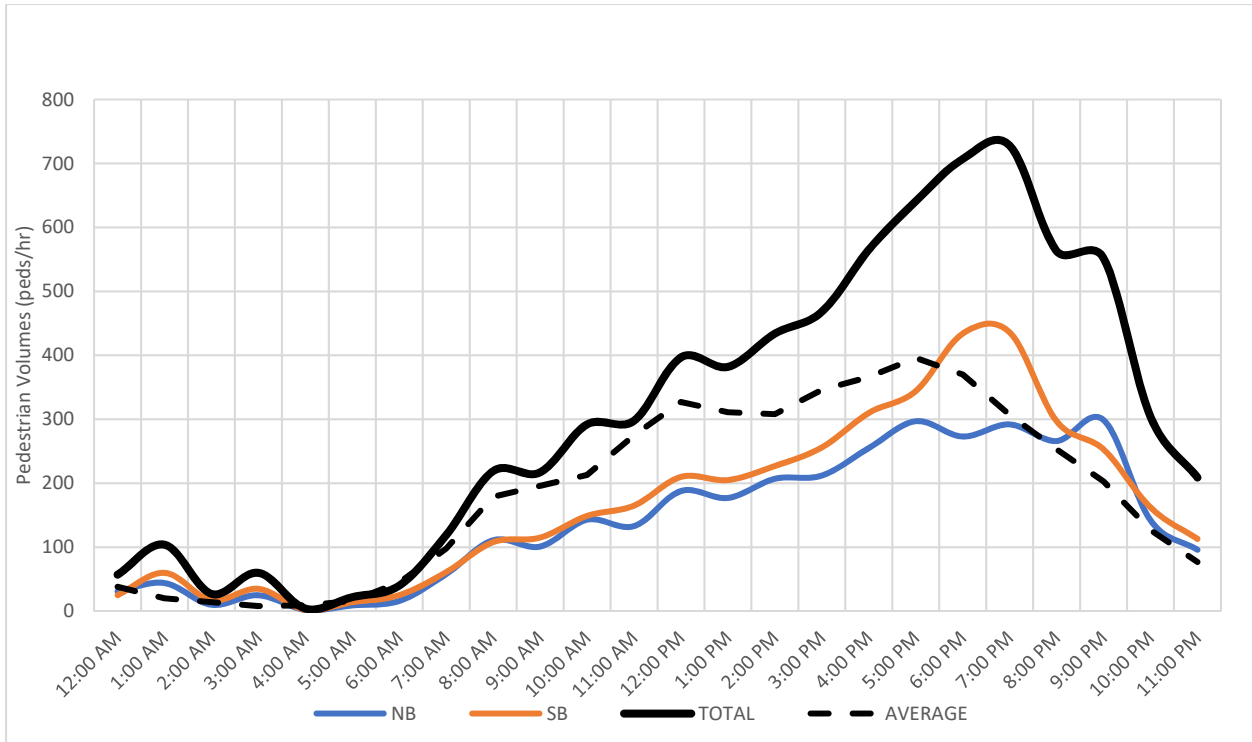


2019 MARCH BREAK WEEKDAY (NON-EVENT)

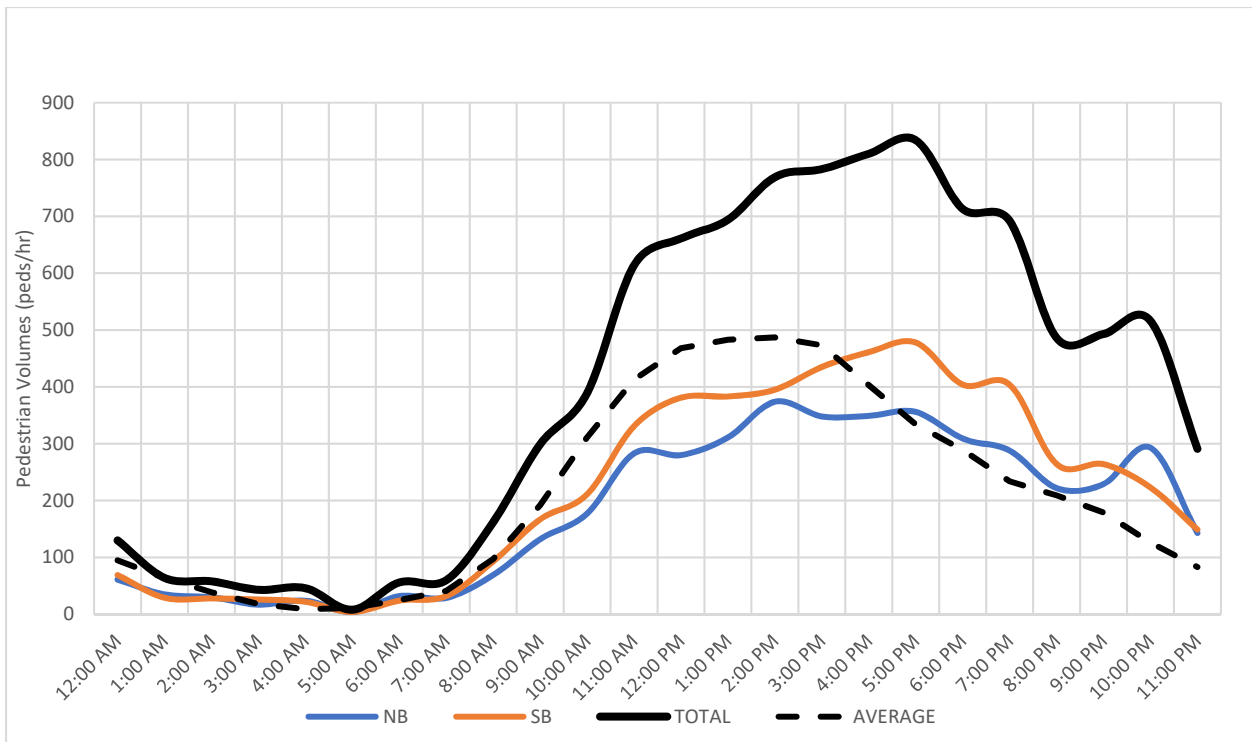
(Average of Monday, March 11 – Thursday, March 14)



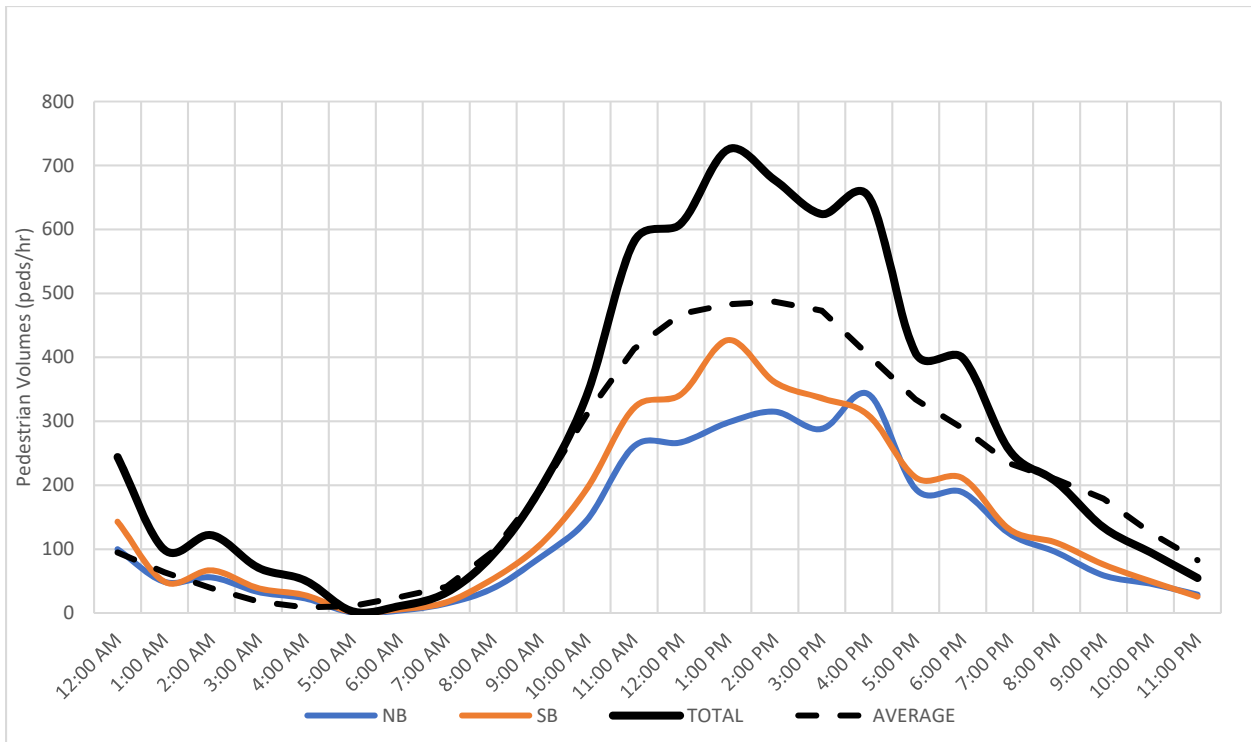
2019 MARCH BREAK (FRIDAY, MARCH 15)



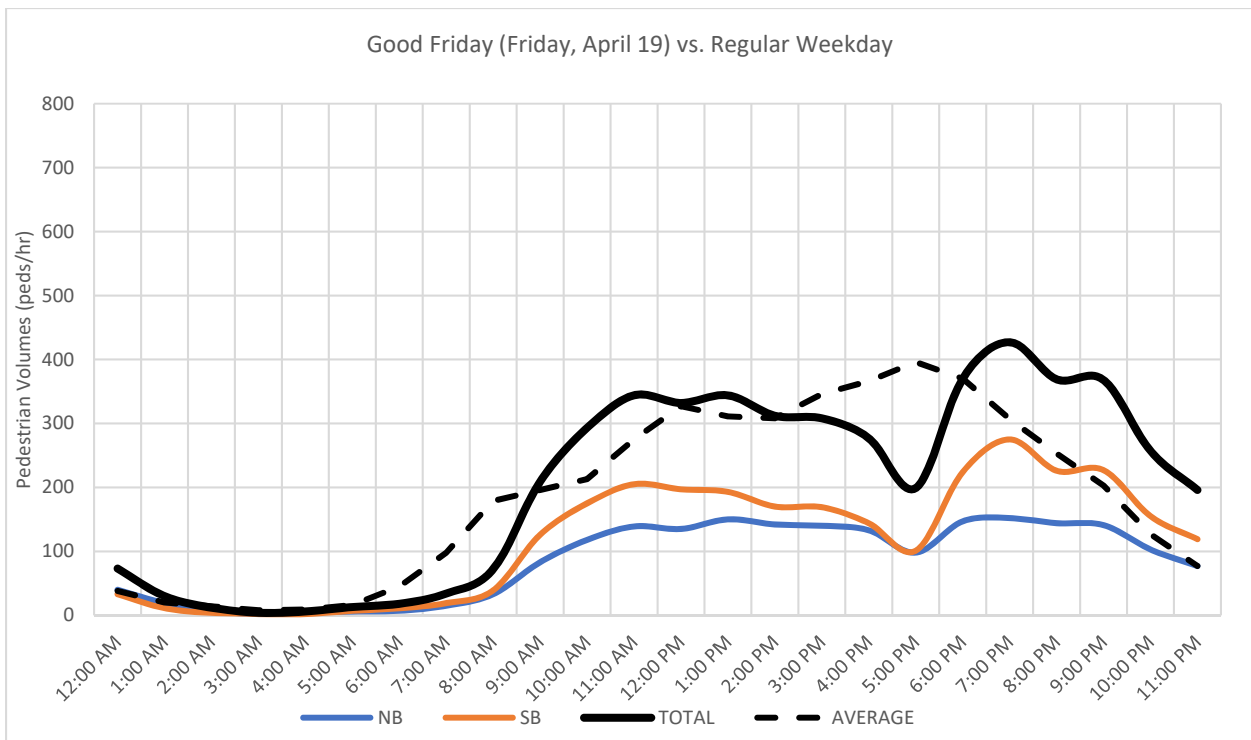
2019 MARCH BREAK (SATURDAY, MARCH 16)



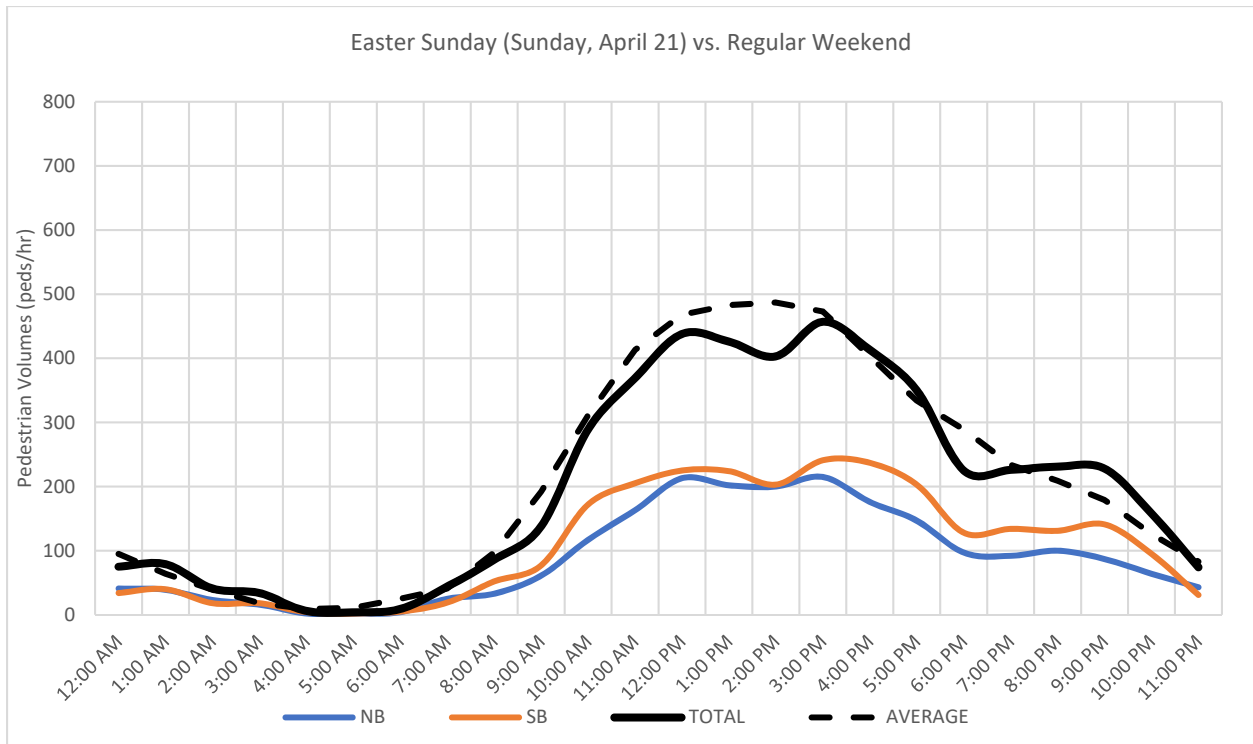
2019 MARCH BREAK (SUNDAY, MARCH 17)



2019 GOOD FRIDAY (FRIDAY, APRIL 19)



2019 EASTER SUNDAY (SUNDAY, APRIL 21)



2019 EASTER MONDAY (MONDAY, APRIL 22)

