

# **Chapter 4: Multimodal Turning Movement Counts**

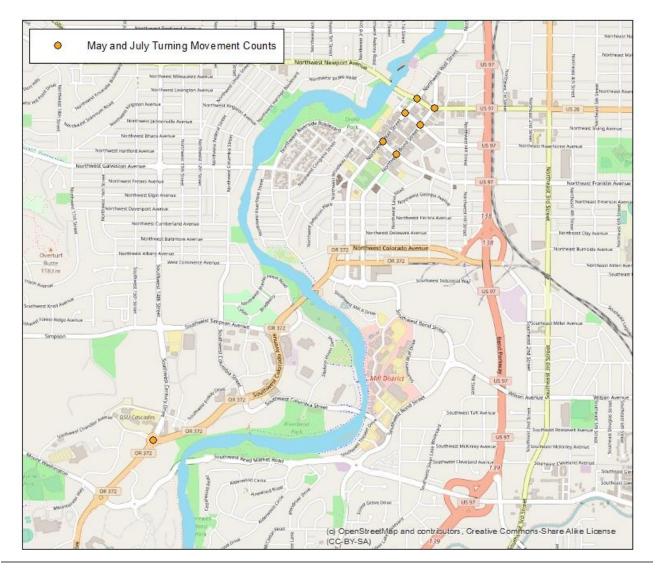
#### MULTIMODAL TURNING MOVEMENT COUNTS

Counts were collected at several intersections in May and June to assess multimodal volumes. The counts include:

- Vehicle turning movement counts
- Bicycle turning movement counts
- Pedestrians using crosswalks
- Heavy vehicle percentages by movement

Multimodal turning movement counts can be used for a variety of purposes, including assessing vehicle operations for each movement at an intersection, quantifying pedestrian and bicycle demand, and quantifying exposure to more fully assess crash data. Locations where counts were collected are shown in Exhibit X. These counts are collected by recording and reviewing video data.

**Exhibit 4-1. Multimodal Turning Movement Count Locations** 



The turning movement counts collected are summarized below and compared by location for each peak period. Exhibit 4-2 shows the total entering vehicles, bikes and pedestrians at each location during the morning peak hour.

Exhibit 4-2. Morning Peak Hour Total Entering Volumes by Location

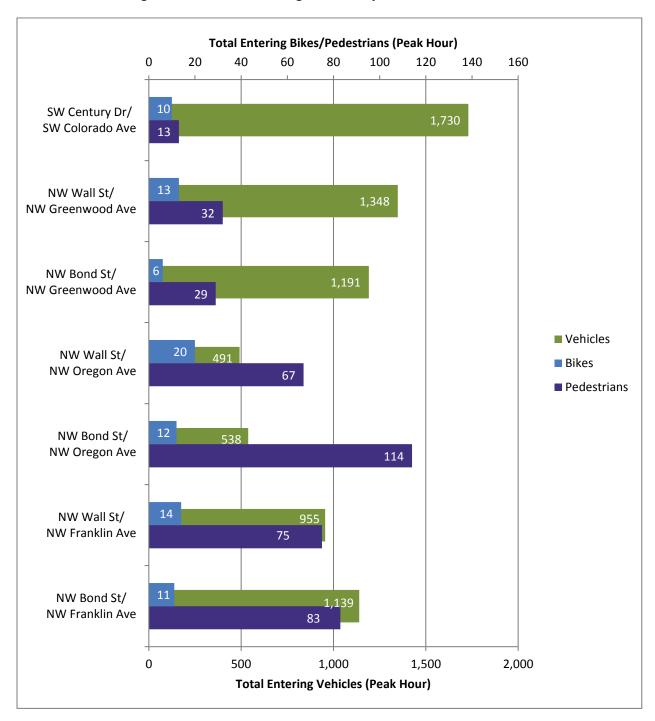


Exhibit 4-3 shows the total entering vehicles, bikes and pedestrians at each location during the midday peak hour. Note that the scales have been adjusted to account for the significantly higher volumes observed at most locations during the midday peak period.

Exhibit 4-3. Midday Peak Hour Total Entering Volumes by Location

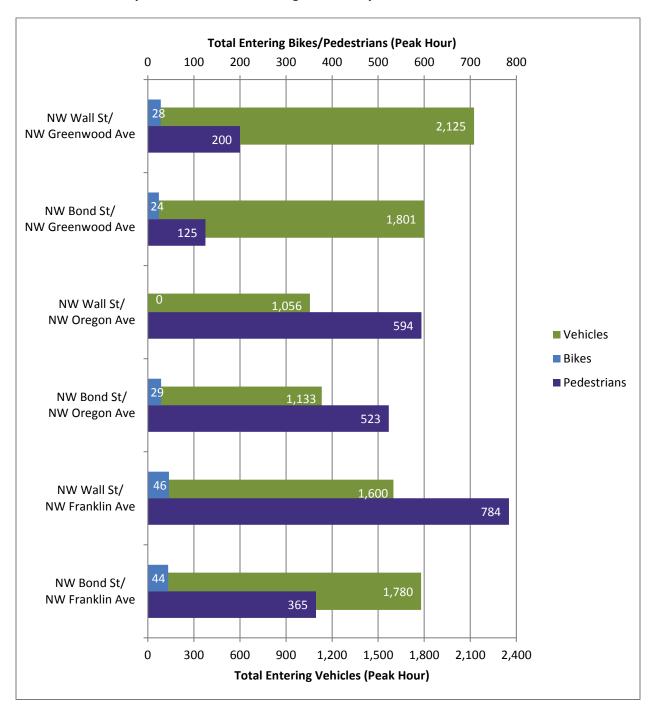
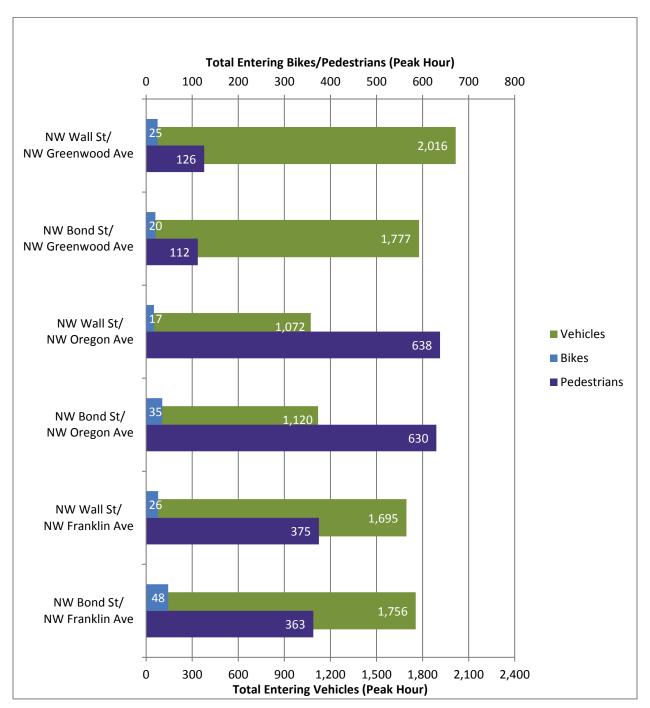


Exhibit 4-4 shows the total entering vehicles, bikes and pedestrians at each location during the evening peak hour. Note that the same scale is employed as was used for the midday peak period.

Exhibit 4-3. Evening Peak Hour Total Entering Volumes by Location



Summaries for the traffic counts collected at each location are provided in the following pages, using the same order shown in the graphs above.

# LOCATION: SW CENTURY DRIVE/SW COLORADO AVENUE (ID 770)



Functional Classification: Minor Arterial/

Minor Arterial

**Cross-Section:** Bicycle lanes on SW Century Drive and east leg of SW Colorado Avenue; Drive, sidewalks/trails on all roadways

Traffic Control: Roundabout

**Source:** Turning Movement Counts

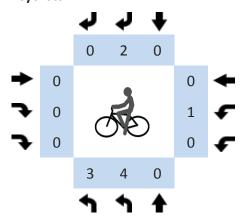
**Date:** Tuesday, May 17, 2016, 3:30-5:30 p.m.

**Peak Hour:** 3:30-4:30 p.m.

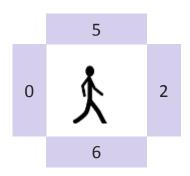
#### **Vehicles and Heavy Vehicles Percentage:**

	SB	6%	1%	4%	SB	
EB		31	233	79 🕨		WB
1%	<b>1</b> 142	SW	Century Di	28	0%	
5%	<b>→</b> 265	SW C	Colorado Av	177 🗲	7%	
1%	<b>1</b> 40	5/17/20	)16, 3:30-4	122 🗲	3%	
EB		92	<b>1</b> 293	128		WB
	NB	1%	3%	7%	NB	

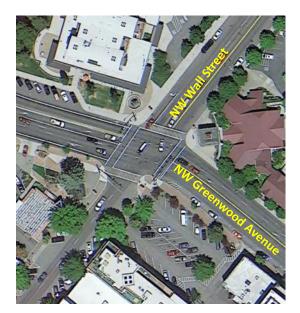
# **Bicyclists:**



#### **Pedestrians:**



## LOCATION: NW WALL STREET/NW GREENWOOD AVENUE (NOT ON MAP)



Functional Classification: Minor Arterial/ Minor Arterial

**Cross-Section:** Sidewalks on all roadways

Traffic Control: Signal

**Source:** Turning Movement Counts

Date: Tuesday, July 19, 2016; 7:00-9:00 a.m., 11:00 a.m.-

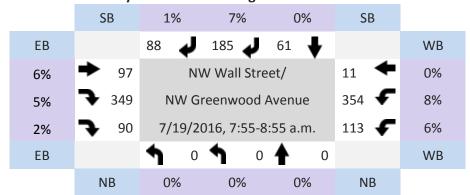
1:00 p.m., and 4:00-6:00 p.m.

Peak Hours: 7:55-8:55 a.m., 11:55 a.m.-12:55 p.m.; 5:00-

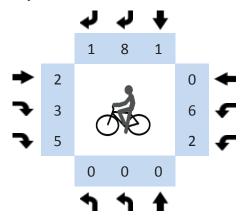
6:00 p.m.

Weekday Morning Peak Hour:

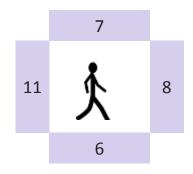
#### **Vehicles and Heavy Vehicles Percentage:**



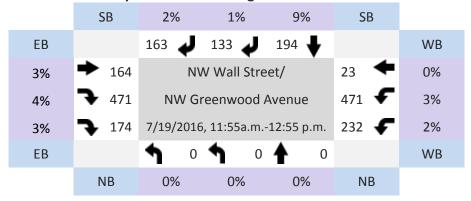
#### **Bicyclists:**



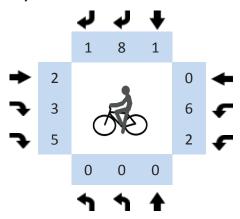
#### **Pedestrians:**



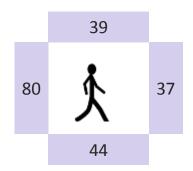
## **Vehicles and Heavy Vehicles Percentage:**



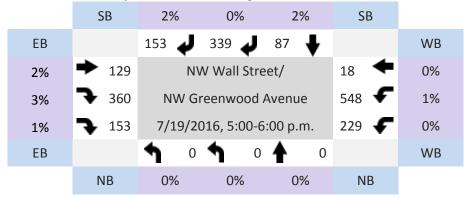
## **Bicyclists:**



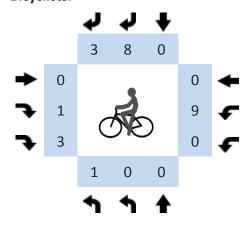
#### **Pedestrians:**



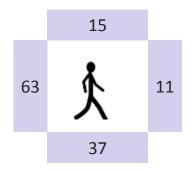
## **Vehicles and Heavy Vehicles Percentage:**



## **Bicyclists:**



#### **Pedestrians:**



## LOCATION: NW BOND STREET/NW GREENWOOD AVENUE (NOT ON MAP)



Functional Classification: Minor Arterial/ Minor

Arterial

Cross-Section: Sidewalks on all roadways

Traffic Control: Signal

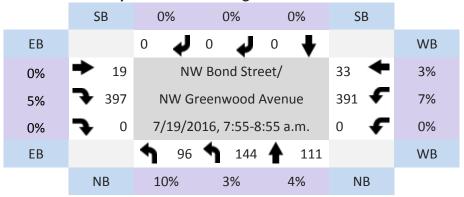
**Source:** Turning Movement Counts

**Date:** Tuesday, July 19, 2016; 7:00-9:00 a.m., 11:00 a.m.-1:00 p.m., and 4:00-6:00 p.m. **Peak Hours:** 7:55-8:55 a.m., 11:55 a.m.-12:55

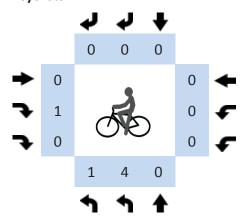
p.m.; 5:00-6:00 p.m.

## Weekday Morning Peak Hour:

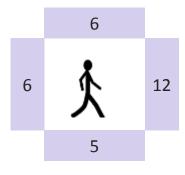
#### **Vehicles and Heavy Vehicles Percentage:**



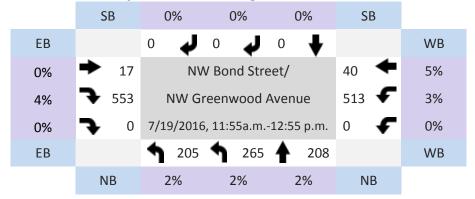
#### **Bicyclists:**



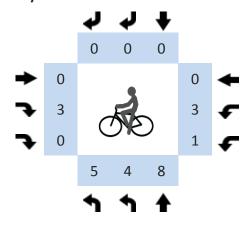
#### **Pedestrians:**



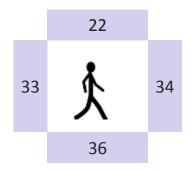
## **Vehicles and Heavy Vehicles Percentage:**



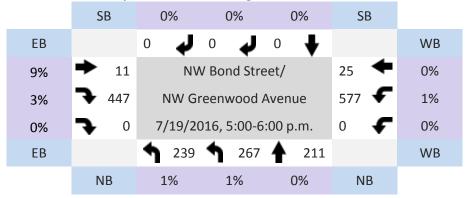
## **Bicyclists:**



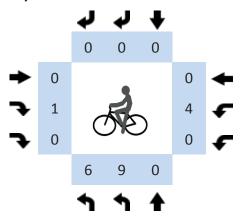
#### **Pedestrians:**



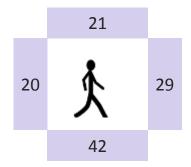
# Vehicles and Heavy Vehicles Percentage:



## **Bicyclists:**



#### **Pedestrians:**



# LOCATION: NW WALL STREET/NW OREGON AVENUE (NOT ON MAP)



Functional Classification: Minor Arterial/ Major Collector

**Cross-Section:** Sidewalks on all roadways

Traffic Control: Signal

**Source:** Turning Movement Counts

Date: Tuesday, July 19, 2016; 7:00-9:00 a.m., 11:00 a.m.-

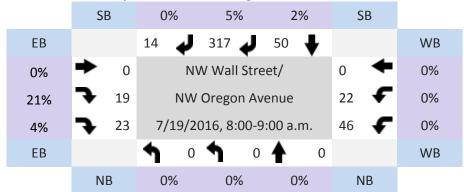
1:00 p.m., and 4:00-6:00 p.m.

**Peak Hours:** 8:00-9:00 a.m., 12:00-1:00 p.m.; 4:40-5:40

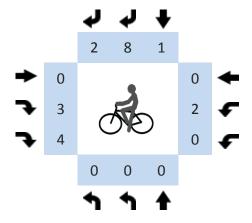
p.m.

## Weekday Morning Peak Hour:

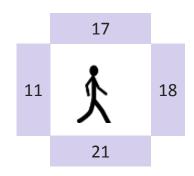
#### **Vehicles and Heavy Vehicles Percentage:**



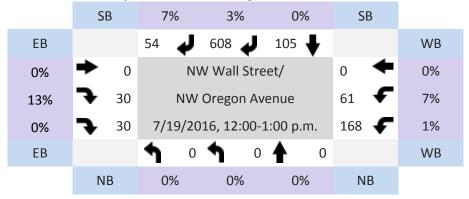
#### **Bicyclists:**



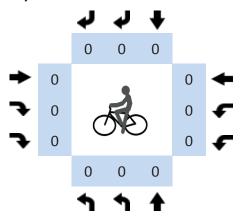
#### **Pedestrians:**



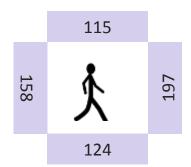
## **Vehicles and Heavy Vehicles Percentage:**



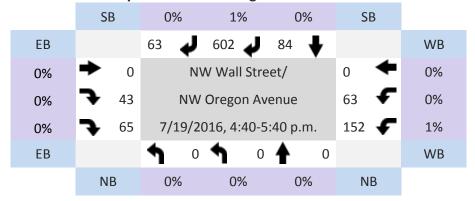
## **Bicyclists:**



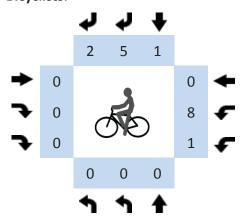
#### **Pedestrians:**



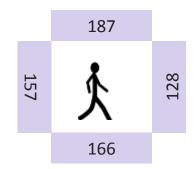
## **Vehicles and Heavy Vehicles Percentage:**



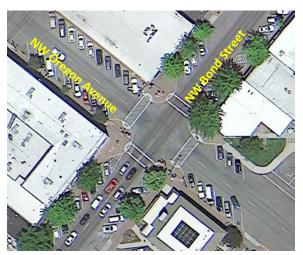
## **Bicyclists:**



#### **Pedestrians:**



## LOCATION: NW BOND STREET/NW OREGON AVENUE (NOT ON MAP)



Functional Classification: Minor Arterial/ Major

Collector

**Cross-Section:** Sidewalks on all roadways

Traffic Control: Signal

**Source:** Turning Movement Counts

**Date:** Tuesday, July 19, 2016; 7:00-9:00 a.m., 11:00

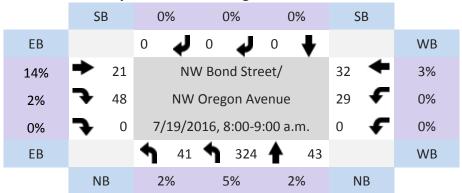
a.m.-1:00 p.m., and 4:00-6:00 p.m.

**Peak Hours:** 8:00-9:00 a.m., 12:00-1:00 p.m.; 4:40-5:40

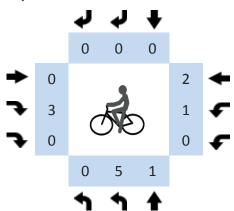
p.m.

## Weekday Morning Peak Hour:

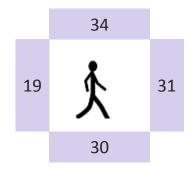
#### **Vehicles and Heavy Vehicles Percentage:**



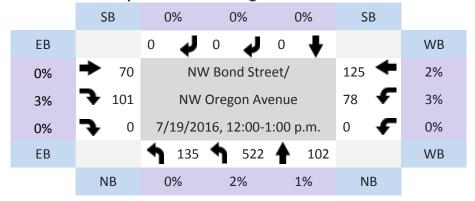
#### **Bicyclists:**



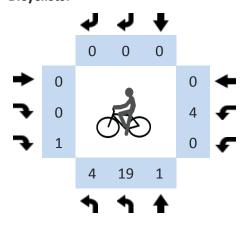
#### **Pedestrians:**



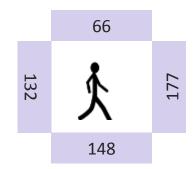
## **Vehicles and Heavy Vehicles Percentage:**



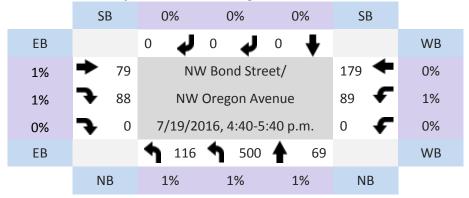
## **Bicyclists:**



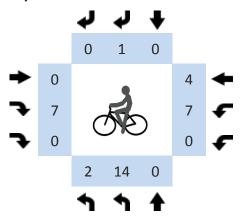
#### **Pedestrians:**



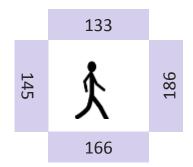
# Vehicles and Heavy Vehicles Percentage:



## **Bicyclists:**



#### **Pedestrians:**



# LOCATION: NW WALL STREET/NW FRANKLIN AVENUE (ID 764)



**Functional Classification:** Major Collector/Minor Arterial (Wall Street transitions at Franklin)/ Minor Arterial

**Cross-Section:** Sidewalks on all roadways, sharrows on westbound NW Franklin Avenue and bike lane at eastbound NW Franklin Avenue at intersection

Traffic Control: Signal

**Source:** Turning Movement Counts

**Date:** Tuesday, July 19, 2016; 7:00-9:00 a.m., 11:00

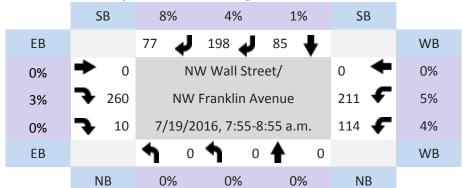
a.m.-1:00 p.m., and 4:00-6:00 p.m.

**Peak Hours:** 7:55-8:55 a.m., 11:55 a.m.-12:55 p.m.;

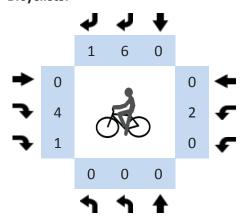
4:40-5:40 p.m.

#### Weekday Morning Peak Hour:

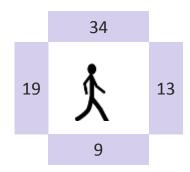
#### **Vehicles and Heavy Vehicles Percentage:**



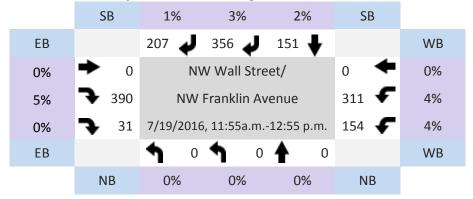
#### **Bicyclists:**



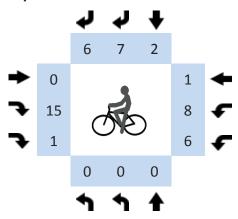
#### **Pedestrians:**



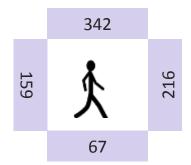
# Vehicles and Heavy Vehicles Percentage:



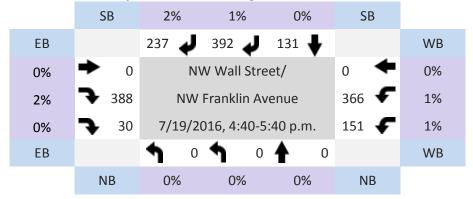
## **Bicyclists:**



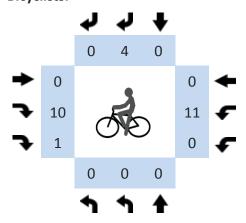
#### **Pedestrians:**



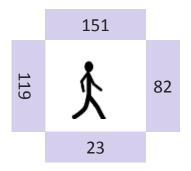
## **Vehicles and Heavy Vehicles Percentage:**



## **Bicyclists:**



#### **Pedestrians:**



# LOCATION: NW BOND STREET/NW FRANKLIN AVENUE (ID 765)



Functional Classification: Major Collector/Minor Arterial (Bond Street transitions at Franklin)/ Minor

rterial

Cross-Section: Sidewalks on all roadways, sharrows on

NW Franklin Avenue at intersection

Traffic Control: Signal

**Source:** Turning Movement Counts

**Date:** Tuesday, July 19, 2016; 7:00-9:00 a.m., 11:00

a.m.-1:00 p.m., and 4:00-6:00 p.m.

**Peak Hours:** 7:55-8:55 a.m., 11:55 a.m.-12:55 p.m.;

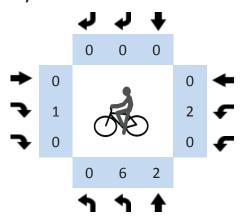
4:40-5:40 p.m.

## Weekday Morning Peak Hour:

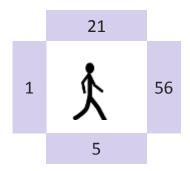
#### **Vehicles and Heavy Vehicles Percentage:**

	SB	0%	0%	0%	SB	
EB		0	0	0		WB
4%	→ 107	NW	/ Bond Stre	70	6%	
2%	<b>&gt;</b> 234	NW I	Franklin Av	290 🗲	5%	
0%	<b>→</b> 0	7/19/20	)16, 7:55-8	0	0%	
EB		<b>أ</b> 52	258	<b>1</b> 28		WB
	NB	0%	3%	4%	NB	

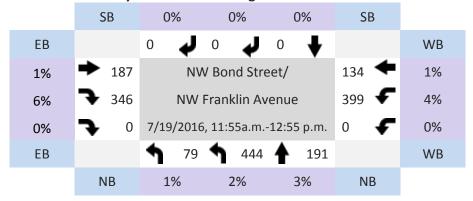
#### **Bicyclists:**



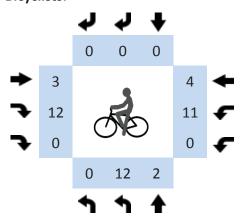
#### **Pedestrians:**



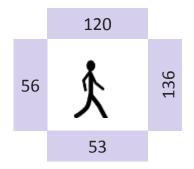
## **Vehicles and Heavy Vehicles Percentage:**



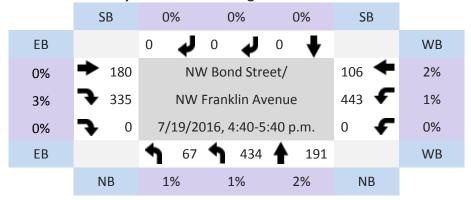
## **Bicyclists:**



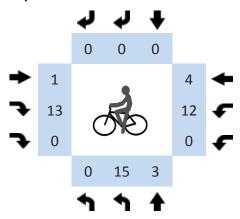
#### **Pedestrians:**



# Vehicles and Heavy Vehicles Percentage:



## **Bicyclists:**



#### **Pedestrians:**

